

The Eagle 53  
Guitarist  
Lush Chords

Chords and Scales for  
Eagle 53 Guitars

John O'Sullivan

Published by  
Pan Music Publishing

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ISBN 978-1-8381219-3-8

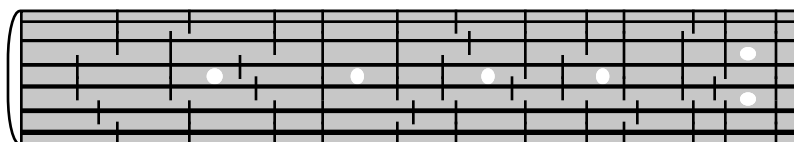
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To Andrew

# Introduction

This book is a guide for guitarists that want to use my Eagle 53 musical tuning. It contains diagrams of 940 *lush* chords. Lush chords are both strong and strongly rooted. 65 strongly rooted scales (or chord groups) are listed and 31 seven notes per octave scales are listed that are not strongly rooted but are acceptable. Eagle 53 cannot be implemented on regular guitars as a new and unusual fret arrangement is required. Here is what an Eagle 53 fretboard looks like...



If you want to know how I arrived at my Eagle 53 tuning check out my book...

Eagle 53 My Ultimate Musical Tuning (Third Edition)  
ISBN 9780956649294

There's also an older, condensed and cheaper eBook on Amazon called:

Eagle 53 Musical Tuning

I play guitar and Eagle 53 was designed with guitars in mind. With Eagle 53, major chords are only available on six notes (E, F, G, A, B and C) but these chords are more in tune than what you would get in 12TET (12 Tone Equal Temperament, the standard Western musical tuning). Minor chords occur on E, G#, A, B, C# and D# and these are also more in tune than 12TET minor chords but they are not very strong and are not strongly rooted. There are lush chords available on every note except A#. I wrote a web app to demonstrate some Eagle 53 chords and progressions. Here's the address...

The ideas presented in this book are according to my current understanding which may be wrong and may change in the future.

Also I am not saying that you, the reader, must conform to my musical system. The ideas presented here are what work for *me*. This is what gets me going and floats my boat. If you disagree with some of my ideas that is your prerogative and that's fine by me.

With a few exceptions the chords illustrated in this book are all strongly rooted (explained later) and have a strength value (or overall periodicity) greater than or equal to 0.75 (explained later). I call these chords *lush chords* and they are the very best chords for my taste. There are no minor chords illustrated in this book for two reasons... They are weak (strength value  $< 0.75$ ) and they are not strongly rooted.

For many readers the chapter on mathematical background will be difficult to understand. You don't need to know the maths behind my chords and scales to use them so you can safely skip this chapter and just go straight to playing (if you have an Eagle 53 guitar).

# Chapter One

## Eagle Frets

First of all, if you don't already have one, you need an Eagle fretted guitar. There are specifications for fret placements listed below. You could hire a luthier to build an Eagle fretted guitar from scratch but it would be simpler, faster and cheaper to buy a guitar and then modify its fretboard yourself.

Over the years I have done a few refrets (I am not a luthier). I would buy a cheap guitar, rip out the frets, fill the slots with wood cement or resin, saw new slots for the new frets and then fit the new frets. This is not easy, especially for the inexperienced, so I recommend hiring a luthier to do the refret for you if you can afford it.

Below are lists of distances from the nut for each fret according to each of the 12 keys. The 'y' indicates the *scale length* of the guitar which is the distance from the nut to the saddle on the lightest string. The saddle is usually angled slightly so that the distance from the nut to the saddle is slightly longer for the lower, thicker strings. I go to seven decimal places in these lists but this degree of precision is unnecessary. A half millimetre or 1/64 inch accuracy should be fine.

Key 1 (E)...0.0632991y, 0.111041y, 0.167311y, 0.199349y, 0.25003y, 0.288254y, 0.333307y, 0.375508y, 0.399535y, 0.444852y, 0.466212y, 0.5y, 0.53165y, 0.555521y, 0.583656y, 0.599675y, 0.625015y, 0.644127y, 0.666654y, 0.687754y, 0.699768y, 0.722426y, 0.733106y, 0.75y.

Key 2 (F)...0.0509683y, 0.111041y, 0.145244y, 0.199349y, 0.240157y, 0.288254y, 0.333307y, 0.358958y, 0.407337y, 0.43014y, 0.466212y, 0.5y, 0.525484y, 0.555521y, 0.572622y, 0.599675y, 0.620078y, 0.644127y, 0.666654y, 0.679479y, 0.703669y, 0.71507y, 0.733106y, 0.75y.

Key 3 (F#)...0.063299y, 0.0993387y, 0.15635y, 0.199349y,  
0.25003y, 0.297502y, 0.324531y, 0.375508y, 0.399535y,  
0.437544y, 0.473147y, 0.5y, 0.531649y, 0.549669y, 0.578175y,  
0.599675y, 0.625015y, 0.648751y, 0.662265y, 0.687754y,  
0.699768y, 0.718772y, 0.736574y, 0.75y.

Key 4 (G)...0.0384751y, 0.0993388y, 0.145244y, 0.199349y,  
0.25003y, 0.278885y, 0.333307y, 0.358958y, 0.399536y,  
0.437544y, 0.466212y, 0.5y, 0.519238y, 0.549669y, 0.572622y,  
0.599675y, 0.625015y, 0.639442y, 0.666654y, 0.679479y,  
0.699768y, 0.718772y, 0.733106y, 0.75y.

Key 5 (G#)...0.0632991y, 0.111041y, 0.167311y, 0.22002y,  
0.25003y, 0.30663y, 0.333307y, 0.375508y, 0.415038y,  
0.444852y, 0.479993y, 0.5y, 0.53165y, 0.555521y, 0.583656y,  
0.61001y, 0.625015y, 0.653315y, 0.666654y, 0.687754y,  
0.707519y, 0.722426y, 0.739996y, 0.75y.

Key 6 (A)...0.0509682y, 0.111041y, 0.167311y, 0.199349y,  
0.259774y, 0.288254y, 0.333307y, 0.375508y, 0.407337y,  
0.444852y, 0.466212y, 0.5y, 0.525484y, 0.555521y, 0.583656y,  
0.599675y, 0.629887y, 0.644127y, 0.666654y, 0.687754y,  
0.703669y, 0.722426y, 0.733106y, 0.75y.

Key 7 (A#)...0.0632991y, 0.122591y, 0.15635y, 0.22002y,  
0.25003y, 0.297502y, 0.341969y, 0.375508y, 0.415038y,  
0.437544y, 0.473147y, 0.5y, 0.53165y, 0.561296y, 0.578175y,  
0.61001y, 0.625015y, 0.648751y, 0.670985y, 0.687754y,  
0.707519y, 0.718772y, 0.736574y, 0.75y.

Key 8 (B)...0.0632991y, 0.0993387y, 0.167311y, 0.199349y,  
0.25003y, 0.297502y, 0.333307y, 0.375508y, 0.399535y,  
0.437544y, 0.466212y, 0.5y, 0.53165y, 0.549669y, 0.583656y,  
0.599675y, 0.625015y, 0.648751y, 0.666654y, 0.687754y,  
0.699768y, 0.718772y, 0.733106y, 0.75y.



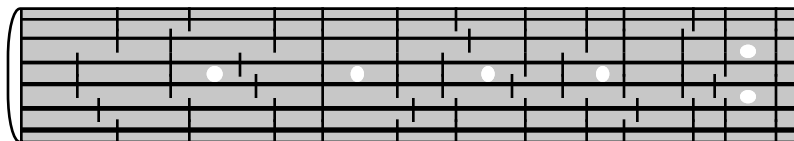
Key 9 (C)...0.0384751y, 0.111041y, 0.145244y, 0.199349y, 0.25003y, 0.288254y, 0.333307y, 0.358958y, 0.399535y, 0.43014y, 0.466212y, 0.5y, 0.519238y, 0.555521y, 0.572622y, 0.599675y, 0.625015y, 0.644127y, 0.666654y, 0.679479y, 0.699768y, 0.71507y, 0.733106y, 0.75y.

Key 10 (C#)...0.0754697y, 0.111041y, 0.167311y, 0.22002y, 0.259774y, 0.30663y, 0.333307y, 0.375508y, 0.407337y, 0.444852y, 0.479993y, 0.5y, 0.537735y, 0.555521y, 0.583656y, 0.61001y, 0.629887y, 0.653315y, 0.666654y, 0.687754y, 0.703669y, 0.722426y, 0.739996y, 0.75y.

Key 11 (D)...0.0384751y, 0.0993387y, 0.15635y, 0.199349y, 0.25003y, 0.278885y, 0.324531y, 0.358958y, 0.399535y, 0.437544y, 0.459185y, 0.5y, 0.519238y, 0.549669y, 0.578175y, 0.599675y, 0.625015y, 0.639442y, 0.662265y, 0.679479y, 0.699768y, 0.718772y, 0.729592y, 0.75y.

Key 12 (D#)...0.0632991y, 0.122591y, 0.167311y, 0.22002y, 0.25003y, 0.297502y, 0.333307y, 0.375508y, 0.415038y, 0.437544y, 0.479993y, 0.5y, 0.53165y, 0.561296y, 0.583656y, 0.61001y, 0.625015y, 0.648751y, 0.666654y, 0.687754y, 0.707519y, 0.718772y, 0.739996y, 0.75y.

For a guitar tuned EADGBE use the fret distances listed in keys 1, 6, 11, 4, 8, and 1 again (corresponds to EADGBE). The frets will look like this...



Here are the frequencies of the notes in Eagle if the frequency of the lowest note is 'x' over a four octaves range...

1x, 1.06758x, 1.12491x, 1.20093x, 1.24898x, 1.33339x, 1.405x,  
1.49994x, 1.6013x, 1.66538x, 1.80132x, 1.8734x, 2x, 2.13515x,  
2.24982x, 2.40186x, 2.49797x, 2.66677x, 2.80999x, 2.99988x,  
3.2026x, 3.33075x, 3.60265x, 3.7468x, 4x, 4.27031x, 4.49965x,  
4.80372x, 4.99594x, 5.33354x, 5.61998x, 5.99976x, 6.40521x,  
6.66151x, 7.20529x, 7.49361x, 8x, 8.54061x, 8.99929x, 9.60743x,  
9.99187x, 10.6671x, 11.24x, 11.9995x, 12.8104x, 13.323x,  
14.4106x, 14.9872x, 16x.

# Chapter Two

## Mathematical Background

Two notes played simultaneously sound sweet if their frequencies correspond to a simple ratio. For example, the open A string on a regularly tuned guitar, when played, has a frequency of 110Hz (110 waves per second). The frequency of the E note just above it has a frequency of *approximately* 165Hz. Expressed as a ratio this is 110:165. Both 110 and 165 are evenly divisible by 55 so the ratio can be simplified to 2:3. These are small numbers and the 2:3 interval (an interval is the distance between two musical notes) indeed sounds sweet. The smaller the numbers in the ratio the sweeter the sound. 27:40 sounds terrible in comparison.

In the standard Western tuning, 12 Tone Equal Temperament (12TET) the E note mentioned above is slightly lower than 165Hz. It is 164.8Hz. So the 2:3 ratio in this case is not perfectly in tune but the error is so small as to be unnoticeable. The 2:3 interval in 12TET is narrower than just (perfect) by only 2 cents (a cent is one hundredth of a standard semitone) which is acceptable. In Eagle 53 the 2:3 ratio (where it occurs) is only 0.1 cents out of tune.

Now look at the four note open A chord (A, E, A, C#). *Ideally* the frequencies should be 110Hz, 165Hz, 220Hz, 275Hz (which corresponds exactly to 2:3:4:5). As we saw the *ideal* 165Hz (E) is actually 164.8Hz (using a 12TET instrument) which is close enough to 165Hz to be acceptable. But the *ideal* 275Hz (C#) is, in 12TET, 277.2Hz which is noticeably out of tune with the other notes. The 277.2Hz note is too high (or sharp) by 14 cents which is unacceptable for me. My current maximum tolerance for the mistuning or tempering of a just interval is not more than plus or minus 8.474 cents (2024/1019).

With Eagle 53 however, the C# note in this 2:3:4:5 chord is out of tune by only 1.4 cents, even more accurate than a 12TET Perfect Fifth (which is only 2 cents out of tune).

So the idea is to get all the notes in a chord tuned so that any two notes are as close as possible to a simple just interval or ratio. With 12TET major and minor chords one note is always significantly out of tune with the others by 14 cents (in major chords) or 16 cents (in minor chords). With Eagle the maximum deviation from just (or pure) in major and minor chords is only 1.4 cents.

When building chords I like to have every pair of notes in a chord to be within 8.474 cents of what I consider to be a *good* harmony (not melody) interval. Harmony has to do with notes played simultaneously and melody has to do with notes played in sequence. Here is a list of what I consider to be good harmony intervals over a two octave range. The ratios on the left are just intervals, the numbers in the middle are the widths of the intervals in cents and the numbers on the right are the strength values of the intervals using my  $2/n + 2/d$  formula (n stands for numerator and d stands for denominator). Note that the ratios are usually written such that the left hand side is greater than or equal to the right hand side (e.g. 5/3). I won't use a harmony interval with a strength value less than 0.4.

|        |     |         |       |      |
|--------|-----|---------|-------|------|
| $1/1$  | $=$ | 0.0     | cents | 4.00 |
| $10/9$ | $=$ | 182.404 | cents | 0.42 |
| $9/8$  | $=$ | 203.91  | cents | 0.47 |
| $8/7$  | $=$ | 231.174 | cents | 0.54 |
| $7/6$  | $=$ | 266.871 | cents | 0.62 |
| $6/5$  | $=$ | 315.641 | cents | 0.73 |
| $11/9$ | $=$ | 347.408 | cents | 0.40 |
| $5/4$  | $=$ | 386.314 | cents | 0.90 |
| $9/7$  | $=$ | 435.084 | cents | 0.51 |
| $4/3$  | $=$ | 498.045 | cents | 1.17 |

|             |   |               |      |
|-------------|---|---------------|------|
| 11/8        | = | 551.318 cents | 0.43 |
| 7/5         | = | 582.512 cents | 0.69 |
| 10/7        | = | 617.488 cents | 0.49 |
| 3/2         | = | 701.955 cents | 1.67 |
| 11/7        | = | 782.492 cents | 0.47 |
| 8/5         | = | 813.686 cents | 0.65 |
| 13/8        | = | 840.528 cents | 0.40 |
| 5/3         | = | 884.359 cents | 1.07 |
| 12/7        | = | 933.129 cents | 0.45 |
| 7/4         | = | 968.826 cents | 0.79 |
| 9/5         | = | 1017.6 cents  | 0.62 |
| <u>11/6</u> | = | 1049.36 cents | 0.52 |
| <u>13/7</u> | = | 1071.7 cents  | 0.44 |
| 2/1         | = | 1200 cents    | 3.00 |
| <u>15/7</u> | = | 1319.44 cents | 0.42 |
| <u>13/6</u> | = | 1338.57 cents | 0.49 |
| <u>11/5</u> | = | 1365 cents    | 0.58 |
| 9/4         | = | 1403.91 cents | 0.72 |
| 16/7        | = | 1431.17 cents | 0.41 |
| 7/3         | = | 1466.87 cents | 0.95 |
| 12/5        | = | 1515.64 cents | 0.57 |
| 17/7        | = | 1536.13 cents | 0.40 |
| 5/2         | = | 1586.31 cents | 1.40 |
| 13/5        | = | 1654.21 cents | 0.55 |
| 8/3         | = | 1698.04 cents | 0.92 |

|      |   |         |       |      |
|------|---|---------|-------|------|
| 11/4 | = | 1751.32 | cents | 0.68 |
| 14/5 | = | 1782.51 | cents | 0.54 |
| 17/6 | = | 1803    | cents | 0.45 |
| 3/1  | = | 1901.96 | cents | 2.67 |
| 19/6 | = | 1995.56 | cents | 0.44 |
| 16/5 | = | 2013.69 | cents | 0.53 |
| 13/4 | = | 2040.53 | cents | 0.65 |
| 10/3 | = | 2084.36 | cents | 0.87 |
| 17/5 | = | 2118.64 | cents | 0.52 |
| 7/2  | = | 2168.83 | cents | 1.29 |
| 18/5 | = | 2217.6  | cents | 0.51 |
| 11/3 | = | 2249.36 | cents | 0.85 |
| 15/4 | = | 2288.27 | cents | 0.63 |
| 19/5 | = | 2311.2  | cents | 0.51 |
| 23/6 | = | 2326.32 | cents | 0.42 |
| 4/1  | = | 2400    | cents | 2.50 |

So if I am constructing chords not wider than two octaves (4/1) then *every* possible pair of notes in the chord must be within 8.474 cents of one of the just intervals listed above (except those underlined, see below).

Intervals that are very narrow (excluding unisons) produce an unpleasant phenomenon called beating. Play any two notes on a piano or a guitar that are only one semitone apart and you will clearly hear the beating which sounds like a wobble or a growl. The frequency of the beats in an interval is the frequency of the higher note minus the frequency of the lower note.

I consider any interval (with a regular harmonic timbre such

as a guitar, piano or organ) between 8.5 cents and 173.9 cents to be illegal as they produce significant beating. My maximum tolerance for tempering a just interval is 8.474 cents (8.5 cents approximately). The lower beating bound (8.5 cents) is a unison (1/1) tempered by 8.5 cents, and the upper bound (173.9 cents), is my narrowest (apart from a unison) legal *harmony* interval, 10/9 (which is 182.4 cents), tempered flat by 8.5 cents.

While compiling my lists of chords I discovered that the 15/7 interval (1319.4 cents) seems to produce some significant beating even though it is a lot wider than 173.9 cents. It turns out that the first overtone (or second harmonic or partial) of the 7 (which is 14) beats strongly against the fundamental of the 15 (which is 15). 15/14 is 119.4 cents which is within my significant beating range of 8.5 cents to 173.9 cents. If you don't know what harmonics or partials or overtones are do an internet search on "the harmonic series" or "overtones" or check out my book: Eagle 53 My Ultimate Musical Tuning 3rd Edition.

The second harmonic (or first overtone) of a note is only half as loud as the fundamental (or first harmonic). The third harmonic (or second overtone) is only one third as loud as the fundamental, and so on. So any beating that occurs among harmonics that are further along the harmonic series is progressively less noticeable than any beating that occurs between two fundamentals.

With the following intervals: 13/6, 13/7, 11/5, 11/6 and 15/7 the first overtone (or second harmonic) of the lower note beats significantly against the fundamental (or first harmonic) of the higher note. For me this means that 13/6, 13/7, 11/5, 11/6 and 15/7 should be illegal in a harmony context (i.e. illegal in chords) even though they all have an overall strength or periodicity value greater than 0.4. 15/8 is already illegal in a harmony context as it has an overall strength value less than 0.4.

Consider 17/6. The 6's third harmonic (18) beats against 17's fundamental (17). 18/17 is 99 cents. However the third harmonic is fainter (not as loud) than a first or second harmonic

so the beating won't be as noticeable. Currently I don't consider any beating that occurs beyond the second harmonic (or first overtone) to be significant which means that 17/6 is for me, currently, legal.

I need to revise my other books and mention these five newly illegal harmony intervals.

In 12TET all the intervals wider than a unison (1/1) are multiples of 100 cents wide. E.g. 100c, 200c, 300c, 400c, 500c, 600c, 700c etc. Most of the intervals in Eagle 53 are quite different to these and are more in tune. There is also a greater variety of good intervals in Eagle 53 than in 12TET.

### *The Overall Strengths of Chords*

Consider a just (perfect) six note major chord. The frequencies of the notes, and how they relate to each other, can be indicated by integers. A six note major chord looks like 2:3:4:5:6:8. So if the frequency of the lowest note is 200Hz (200 waves per second) then the frequencies of all six notes will be 200Hz, 300Hz, 400Hz, 500Hz, 600Hz and 800Hz.

A six note minor chord looks like 10:15:20:24:30:40. These are much bigger numbers than 2:3:4:5:6:8. The smaller the numbers, the sweeter the chord. I call these numbers separated by colons IRCs. Integer Representation of a Chord. Every chord listed in this book has an IRC above it. No chord in this book is perfectly in tune (or just) but all these chords are close enough to just to be described using an IRC.

If you were to plot the waves associated with each note in a just chord the pattern will repeat at regular intervals (or periods). The time (relative to the lowest note, see below) it takes for the pattern to repeat is a measure of how sweet the chord is. The shorter the time, the sweeter the chord. Look at the 2:3:4:5 major chord. Let's say its pattern repeats every one second.



Now look at the 10:15:20:24 minor chord where the lowest note has the same frequency as the lowest note in the major chord above. If my understanding is correct this minor chord will take a lot longer, five times longer (i.e. 5 seconds in this example) for its wave pattern to repeat than the major chord above and is therefore much weaker (or slower) and not as sweet.

These repeating times are relative. Play a 2:3:4:5 chord on a piano. Now play the same chord an octave higher and the time it takes for the pattern to repeat will be half the time for the lower chord. In other words the higher chord seems to be twice as fast as the lower chord. But it seems that these times should be *relative* to the lowest note in each chord. So with these two 2:3:4:5 chords their speeds *relative* to their lowest notes will be the same. Note that I use the terms “speed” and “strength” interchangeably and they have the same practical meaning.

I think that on pianos some chords that are acceptable in the mid to high ranges are simply too slow in the lower ranges. You rarely hear chords played on bass guitars, it’s usually just one note at a time.

Here’s how I calculate the *overall strengths* (or overall periodicity) of chords (I describe a *sum of parts* method later which is an alternative to *overall strength*). First of all I assign any single note a strength value of 1.0.

For a two note chord (two notes played simultaneously) x:y, my formula is  $2(1/x + 1/y)$ . x and y are integers. E.g. 7/5 has a strength value of  $2(1/7 + 1/5)$  which is 0.69.

For a three note chord x:y:z my formula is...  $2(1/x + 1/y + 1/z)$ . So for any chord with two or more notes add the inverses of each integer in the IRC and then multiply this sum by 2.

Why multiply by 2? When you multiply the sum of the inverses of the numbers in an IRC by 2 then any chord with a value greater than 1.0 should sound stronger than any single note on its

own and any chord with a value less than 1 should sound weaker than a single note on its own. I am 99.9% sure that my formula for 2 note chords is good. I am fairly sure that my formula for the overall strengths of chords with three or more notes is good as well but it's hard to be certain. Either way, whether I'm right or wrong, if you find minor chords acceptable then all 940 lush chords listed in this book are definitely stronger than any minor chord and therefore should be acceptable.

The overall strength of a 2:3:4:5:6:8 chords is...

$$2(1/2 + 1/3 + 1/4 + 1/5 + 1/6 + 1/8) = 3.15$$

For a while I wouldn't use chords with an overall strength less than 0.75 but now I will accept chords with an overall strength value of 0.4 or higher.

There are many chords where every possible pairing of two notes in the chord makes an acceptable harmony interval but the overall strength of the chord is less than 0.4. These chords are, for me, illegal.

### The Sum of Parts of Chords

Another approach to measuring how sweet a chord is is to calculate the sum of its parts. Look at two triads 4:5:6 and 10:12:15. The 4:5:6 contains a 5/4, a 6/4 (=3/2) and a 6/5. Using the  $2/x + 2/y$  formula these three intervals have values of 0.9, 1.67 and 0.73 which add up to 3.3.

The 10:12:15 chord contains a 12/10 (=6/5), a 15/10 (=3/2) and a 15/12 (=5/4). The exact same intervals as the 4:5:6 chord and therefore the same sum of parts value: 3.3.

Both chords have the same *sum of parts* values but 4:5:6 is clearly a lot faster, or stronger, than 10:12:15. So the *overall strength* is a better measure here than the *sum of parts*. It is interesting that a 3:4:5 chord is stronger (overall) than 4:5:6 but 4:5:6 has a greater *sum of parts* (2.4) than 3:4:5 (2.24).

So which method to use? Overall Strength or Sum of Parts? I think both methods are useful and describe two different but valid things. However I think the overall strength of a chord is much more important than the sum of its parts. In the chords illustrated in this book I show the overall strengths of chords based on their IRCs and not the sum of their parts.

Note that (on paper) the overall strength (or overall periodicity) of a 2:3:4:5:7 chord is slightly greater than a 2:3:4:5:8 chord but the latter chord definitely sounds stronger. This is because when you substitute an 8 for the 7 you introduce two very strong intervals: an octave ( $8/4 = 2/1$ ) and a double octave ( $8/2 = 4/1$ ). So there is more than one thing going on when you analyse chords (e.g. overall strength versus sum of parts). Beating is another factor. The bottom line for me is if all the intervals in a chord are good (within 8.474 cents of just) and the overall strength is  $\geq 0.4$  then the chord is acceptable regardless of the sum of parts.

### The Root Notes of Chords

If a chord contains one or more of the numbers 1, 2, 4, 8 and 16 in the IRC then it seems to me that the lowest of these is the root note of the chord and the chord is strongly rooted. Higher powers of 2 such as 32 and 64 and beyond don't quite do it for me. I had thought that in the 3:4:5 chord the 3 was obviously the root note but I was shown something that led to me to see that the root of this chord is the 4, not the 3. If you play each note in sequence the 4 note definitely sounds more resolved than the 3 or 5 and is therefore the root note of the chord.

I define a 'P2' as being any of these five integers: 1, 2, 4, 8 or 16. These are all powers of 2. 2 to the power of zero is 1.

So in a 2:3:4:5:7 chord the 2 is the root note of the chord (it is the lowest P2 that occurs). Chords are named after their root notes. The 3:5:7:9 chord contains no P2 and is therefore not strongly rooted (and hard to name). I tested it and none of the notes sounded like a root note to me. I'm suspicious of chords that

aren't strongly rooted. To me they sound restless and vague and for a while I wouldn't use them but I'm open to using them now.

I have to admit that the 10 in the minor triad 10:12:15 sounds a little bit rooted (if you ignore the middle note 10:15 reduces to 2:3) but it is not as obviously rooted as a 1, 2, 4, 8 or 16 when they occur in an IRC and so 10:12:15 is not strongly rooted.

There are no P2s in minor chords (e.g. 10:15:20:24:30:40 or 10:12:15) and this is another reason why I wouldn't use them for a time. Sure 10:15 can be simplified to 2:3 (contains a 2) but simplifying isn't appropriate in this situation. Why? 10:15 looks acceptable when it is simplified to 2:3 but 10:24 simplifies to 5:12 which does not contain a P2. In a strongly rooted chord *every* note (apart from the root note), when paired with the root note, makes an interval  $n/d$  where  $n$  and/or  $d$  is a P2. This P2 root note phenomenon seems strange and counterintuitive to me. For a long time I thought that the root note of a good just chord should be the lowest note but my ears tell me different. The root of 3:4:5 is clearly the 4. I have tested a lot of chords that contain a P2 in the IRC and the lowest P2 that occurs in these chords always sounded like the root note to me.

### Minor Chords

I prefer chords whose overall strength is 0.75 or greater. If I was stuck for a chord I could go as low as 0.4 but not lower. Look at the 10:15:20:24:30:40 minor chord. The overall strength value of this chord is  $2(1/10+1/15+1/20+1/24+1/30+1/40)$  which is 0.633. This is lower than 0.75. And, as I said above, this chord is not strongly rooted, no P2. I prefer strongly rooted chords.

I regard 10:15:20:24:30:40 minor chords as being corrupted 2:3:4:6:8 chords. You can insert a 5 between the 4 and 6 in the 2:3:4:6:8 chord and you get a nice major chord: 2:3:4:5:6:8. If you instead insert a 4.8 between the 4 and 6 in the 2:3:4:6:8 chord (this makes a 10:15:20:24:30:40 chord) this note pairs sweetly with all the other notes and the sum of parts is the same as it is for the

2:3:4:5:6:8 chord but the overall strength of the chord is greatly diminished. The lowest integers in the IRC of the latter chord are 10:15:20:24:30:40, much bigger numbers indicating a low overall strength (0.633). A 10:12:15 minor triad has an overall strength of 0.5 which is weak but acceptable, to me that is.

There are clearly musical situations where a standard minor chord in a progression will sound much better than a major chord. I suspect that if you substitute a 2:3:4:6 or a 2:3:4:6:8 chord for the minor chord the substitution will not only work, but will sound much better. 2:3:4:6:8 is a 10:15:20:24:30:40 minor chord with the 24 removed.

Almost all of the chords illustrated in this book have an overall strength greater than or equal to 0.75 and are strongly rooted (contain a P2 in the IRC). So I'm just describing the very best chords in this book. The sequel to this book "The Eagle 53 Guitarist Jazz Chords" will describe the other chords that are not *lush* but are very versatile in the right context. These *Jazz* chords all have an overall strength value of 0.4 or higher.

## Scales and Chord Groups

There are 65 strongly rooted scales and 31 other scales described in this book. With every scale listed, over a one octave range, between 1/1 and 2/1, every note, when paired with every other note is within 8.474 cents of what I consider to be a good melodic interval. Here is my list of good melodic intervals over a one octave range. The ratios on the left are just intervals. The numbers in the middle are the strength values of the intervals using my  $2/n + 2/d$  formula (these are all  $\geq 0.2$ ). The numbers on the right are the widths of the intervals in cents. I won't use melodic intervals with a strength value less than 0.2. For intervals in a harmony (not melody) context my cut off point is different: 0.4 instead of 0.2.

|       |        |          |
|-------|--------|----------|
| 1/1   | 4      | 0.0000   |
| 20/19 | 0.2053 | 88.8007  |
| 19/18 | 0.2164 | 93.6030  |
| 18/17 | 0.2288 | 98.9546  |
| 17/16 | 0.2426 | 104.9554 |
| 16/15 | 0.2583 | 111.7313 |
| 15/14 | 0.2762 | 119.4428 |
| 14/13 | 0.2967 | 128.2982 |
| 13/12 | 0.3205 | 138.5727 |
| 12/11 | 0.3485 | 150.6371 |
| 11/10 | 0.3818 | 165.0042 |
| 21/19 | 0.2005 | 173.2679 |
| 10/9  | 0.4222 | 182.4037 |
| 19/17 | 0.2229 | 192.5576 |
| 9/8   | 0.4722 | 203.9100 |
| 17/15 | 0.2510 | 216.6867 |
| 8/7   | 0.5357 | 231.1741 |
| 15/13 | 0.2872 | 247.7411 |
| 7/6   | 0.6190 | 266.8709 |
| 20/17 | 0.2176 | 281.3583 |
| 13/11 | 0.3357 | 289.2097 |
| 19/16 | 0.2303 | 297.5130 |
| 6/5   | 0.7333 | 315.6413 |
| 17/14 | 0.2605 | 336.1295 |
| 11/9  | 0.4040 | 347.4079 |
| 16/13 | 0.2788 | 359.4723 |
| 21/17 | 0.2129 | 365.8255 |
| 5/4   | 0.9000 | 386.3137 |
| 19/15 | 0.2386 | 409.2443 |
| 14/11 | 0.3247 | 417.5080 |
| 9/7   | 0.5079 | 435.0841 |
| 22/17 | 0.2086 | 446.3625 |
| 13/10 | 0.3538 | 454.2140 |
| 17/13 | 0.2715 | 464.4278 |
| 21/16 | 0.2202 | 470.7809 |
| 4/3   | 1.1667 | 498.0450 |
| 23/17 | 0.2046 | 523.3189 |
| 19/14 | 0.2481 | 528.6871 |
| 15/11 | 0.3152 | 536.9508 |
| 11/8  | 0.4318 | 551.3179 |
| 18/13 | 0.2650 | 563.3823 |
| 7/5   | 0.6857 | 582.5122 |
| 24/17 | 0.2010 | 596.9996 |
| 17/12 | 0.2843 | 603.0004 |
| 10/7  | 0.4857 | 617.4878 |
| 23/16 | 0.2120 | 628.2744 |
| 13/9  | 0.3761 | 636.6177 |
| 16/11 | 0.3068 | 648.6821 |
| 19/13 | 0.2591 | 656.9854 |

|       |        |           |
|-------|--------|-----------|
| 22/15 | 0.2242 | 663.0492  |
| 3/2   | 1.6667 | 701.9550  |
| 23/15 | 0.2203 | 740.0056  |
| 20/13 | 0.2538 | 745.7861  |
| 17/11 | 0.2995 | 753.6375  |
| 14/9  | 0.3651 | 764.9159  |
| 25/16 | 0.2050 | 772.6274  |
| 11/7  | 0.4675 | 782.4920  |
| 19/12 | 0.2719 | 795.5580  |
| 8/5   | 0.6500 | 813.6863  |
| 21/13 | 0.2491 | 830.2533  |
| 13/8  | 0.4038 | 840.5277  |
| 18/11 | 0.2929 | 852.5921  |
| 23/14 | 0.2298 | 859.4484  |
| 5/3   | 1.0667 | 884.3587  |
| 22/13 | 0.2448 | 910.7903  |
| 17/10 | 0.3176 | 918.6417  |
| 12/7  | 0.4524 | 933.1291  |
| 19/11 | 0.2871 | 946.1951  |
| 26/15 | 0.2103 | 952.2590  |
| 7/4   | 0.7857 | 968.8259  |
| 23/13 | 0.2408 | 987.7467  |
| 16/9  | 0.3472 | 996.0900  |
| 25/14 | 0.2229 | 1003.8015 |
| 9/5   | 0.6222 | 1017.5963 |
| 20/11 | 0.2818 | 1034.9958 |
| 11/6  | 0.5152 | 1049.3629 |
| 24/13 | 0.2372 | 1061.4273 |
| 13/7  | 0.4396 | 1071.7018 |
| 28/15 | 0.2048 | 1080.5572 |
| 15/8  | 0.3833 | 1088.2687 |
| 17/9  | 0.3399 | 1101.0454 |
| 19/10 | 0.3053 | 1111.1993 |
| 21/11 | 0.2771 | 1119.4630 |
| 23/12 | 0.2536 | 1126.3193 |
| 25/13 | 0.2338 | 1132.0998 |
| 27/14 | 0.2169 | 1137.0391 |
| 29/15 | 0.2023 | 1141.3085 |
| 2/1   | 3.0000 | 1200.0000 |

Here are the notes that occur in the descriptions above each chord. The middle column is the distance in cents from the lowest note, E1. There is no A1 to D#1. The note after G#1 is A2.

|    |      |     |
|----|------|-----|
| 1  | 0    | E1  |
| 2  | 113  | F1  |
| 3  | 204  | F#1 |
| 4  | 317  | G1  |
| 5  | 385  | G#1 |
| 6  | 498  | A2  |
| 7  | 589  | A#2 |
| 8  | 702  | B2  |
| 9  | 815  | C2  |
| 10 | 883  | C#2 |
| 11 | 1019 | D2  |
| 12 | 1087 | D#2 |
| 13 | 1200 | E2  |
| 14 | 1313 | F2  |
| 15 | 1404 | F#2 |
| 16 | 1517 | G2  |
| 17 | 1585 | G#2 |
| 18 | 1698 | A3  |
| 19 | 1789 | A#3 |
| 20 | 1902 | B3  |
| 21 | 2015 | C3  |
| 22 | 2083 | C#3 |
| 23 | 2219 | D3  |
| 24 | 2287 | D#3 |
| 25 | 2400 | E3  |
| 26 | 2513 | F3  |
| 27 | 2604 | F#3 |
| 28 | 2717 | G3  |
| 29 | 2785 | G#3 |
| 30 | 2898 | A4  |
| 31 | 2989 | A#4 |
| 32 | 3102 | B4  |
| 33 | 3215 | C4  |
| 34 | 3283 | C#4 |
| 35 | 3419 | D4  |
| 36 | 3487 | D#4 |
| 37 | 3600 | E4  |

Here is a brief overview of Eagle 53. The ratios on the left are just notes (in relation to the tonic, 1/1). The numbers to the right of these are the Eagle 53 notes (in cents) which are close to the just notes.



|       |           |                            |
|-------|-----------|----------------------------|
| 1/1   | 0.0       | just                       |
| 16/15 | 113.2075  | sharp of just by 1.5 cents |
| 9/8   | 203.7736  | flat of just by 0.1 cents  |
| 6/5   | 316.9811  | sharp of just by 1.3 cents |
| 5/4   | 384.9057  | flat of just by 1.4 cents  |
| 4/3   | 498.1132  | sharp of just by 0.1 cents |
| 7/5   | 588.6792  | sharp of just by 6.2 cents |
| 3/2   | 701.8868  | flat of just by 0.1 cents  |
| 8/5   | 815.0943  | sharp of just by 1.4 cents |
| 5/3   | 883.0189  | flat of just by 1.3 cents  |
| 9/5   | 1018.8679 | sharp of just by 1.3 cents |
| 15/8  | 1086.7925 | flat of just by 1.5 cents  |
| 2/1   | 1200.0    | just                       |

It seems to me that all the chords in this book (and the sequel Eagle 53 Guitarist Jazz Chords book), where the highest prime factor that occurs among the numbers in the IRC is 3, are within 0.1 cents of just. If the highest prime factor is 5 these chords should be within 1.6 cents of just. I haven't checked every interval yet but I suspect that all chords where the highest prime factor is 7 should be within 6.3 cents of just. Every interval in every chord listed should be within 8.474 cents of a good just interval as listed on pages 8 to 10.

# Chapter Three

## Composition

When composing melodies I recommend using any of the 96 scales described near the end of this book (over a one octave range). 65 of these scales are “strongly rooted” (i.e. they contain a “P2” in their IRS, Integer Representation of a Scale, which is a 1, 2, 4, 8 or 16). If you finish a musical phrase with a 1, 2, 4, 8 or 16 the phrase will sound “resolved”, like hearing the answer to a question.

The other “6:8:9” scales are not “strongly rooted” but are acceptable. These scales all contain a  $1/1$ ,  $4/3$  and  $3/2$ . If you multiply these fractions by 6 you get 6:8:9.

These scales can also be viewed as chord groups, especially if you are using lush chords only. If you use lush chords (lush chords are strongly rooted) whose root notes occur in any scale chosen from the 96 scale listed (over the scale’s one octave range, problems may arise outside of this range) then any progression should be acceptable. If you are using a strongly rooted scale (or chord group) then if the last chord played in a progression is on a 1, 2, 4, 8 or 16 then the progression should sound resolved. If two P2s occur (e.g. 8 and 16) then the lowest of these is the root. For me, in a melodic context, *tonic* and *root* have the same meaning.

If you are considering *all* of the notes used and not just those that occur in a scale over a one octave range I have two approaches to composition: loose and strict. With both approaches you need to establish a “melodic base”. This entails choosing a set of notes where every note, when paired with every other note, makes an interval that is within 8.474 cents of a good melodic interval (these are listed in my John’s Rules Music book). Any just melodic interval  $n/d$  is good if  $2/n + 2/d \geq 0.2$ .

Here’s how you do it. There should be a diagram of an

Eagle 53 guitar fretboard on my web site. The address is...

[www.johnsmusic7.com/E53fretboard2.jpg](http://www.johnsmusic7.com/E53fretboard2.jpg)

Click "save" or "save page as" in your browser to download the file. You can manipulate the image by rotating it and/or resizing it and then print it. If my web site is down you could scan the fretboard diagram on the back cover of this book, resize it and print it.

The guitar is tuned EADGBE from lowest (bass) string to highest (treble) string. To be more specific the strings are tuned to E1, A2, D2, G2, B3, E3. Begin by drawing a black circle or disk on \*all\* the E and B notes where they occur in the diagram just to the left of the nut or relevant fret. All these E and B notes pair nicely, melodically, with each other and they also pair nicely, melodically, with any other note you choose to use. When I say \*all\* I mean all the E1s, E2s E3s, E4, B2s, B3s and B4s.

Next you need to select the other notes you want to use. If you want to have the open E major chord available you will need to choose the G#2 note in which case you need to draw a black circle where all of the G#2 notes occur in the diagram. There is only one note that does not pair nicely melodically with G#2 and that is the G2 note just below it so draw an 'X' on the diagram where the G2 notes occur (not \*all\* the G notes: G1, G2, G3 etc. just the G2 notes where they occur. It could be the case that the G1 and G3 notes are omitted.

So every time you choose a note apart from the Es and Bs there will be one or two or three notes that you will need to avoid. So place a black circle on the chosen notes and an 'X' on the notes to avoid. Here are the rules for selecting certain notes and avoiding others...

If you choose an A, avoid D 7 notes below it and D 19 notes below it.

If you choose an A#, avoid F 7 notes above it and F 19 notes above it.

B is always good.

If you choose a C, avoid C# 1 note above it.

If you choose a C#, avoid C 1 note below it and F# 7 notes below it and F# 19 notes below it.

If you choose a D, avoid D# 1 note above it and A 7 notes above it and A 19 notes above it.

If you choose a D#, avoid D 1 note below it.

E is always good.

If you choose an F, avoid A# 7 notes below it and A# 19 notes below it.

If you choose an F#, avoid C# 7 notes above it and C# 19 notes above it.

If you choose a G, avoid G# 1 note above it.

If you choose a G#, avoid G 1 note below it.

Note that these rules apply to my Eagle 53 tuning and do *not* apply to 12 Tone Equal Temperament.

You cannot choose a note that has an 'X' on it. Keep going until you have all the notes you want or every single note has either a circle or an 'X' on it. These chosen notes (circles) form the 'melodic base'. If I'm right then you cannot play a sour note melodically if you stick to the melodic base.

## What about chord progressions?

Here's the loose version. If you stick to lush chords only (which are strongly rooted and hence can be treated as a 'single note') any progression should be good as long as the root notes of the chords used belong to the 'melodic base'. This doesn't work for chords that are *not* strongly rooted (meaning they don't function like a single note) unless *all* the notes in the chord belong to the melodic base.

Here's the strict version. *Every* note that occurs in *every* chord used must belong to the melodic base regardless of whether the chords are strongly rooted or otherwise. If this condition is met then all chord progressions should be good.

If I had to choose between loose or strict I would go with strict. It is interesting to me that the Eagle 53 I, IV, V chord progression (e.g. E major, A major, B major) is acceptable using the loose approach but unacceptable using the strict approach. The C#3 note in the A major chord does not pair nicely, melodically with the F#2 note in the B major chord (a 680 cents interval). Replacing the A major chord with an A minor chord solves the problem.

Note that if you choose, say, an A2 note and the D2 note above it (a good melodic pair) you cannot use the A3 note because this does not pair nicely with the D2 note. So some notes that are legal over a one octave range may be illegal if you repeat them in a lower or higher octave range.

# Chapter Four

## Lush Chords

Below is an example of a chord diagram. Vertical lines indicate frets. Os indicate the notes to be played. N stands for Nut and X indicates a string that shouldn't be played. The dashes at the bottom indicate the 3rd, 5th, 7th, 9th and 12th frets. Obviously the frets on an Eagle 53 guitar do not line up neatly like in the diagrams here but the diagrams should be clear enough to identify the correct notes to be played on an Eagle guitar. The chords are named E1, F1, F#1, G1, G#1 (there are no chords on A1 to D#1, these notes do not occur). Then A2, A#2 etc. up to G#2. Then A3, A#3 etc. up to G#3. Then A4 and so on.

In the text above the diagram below the A2-55 on the left indicates the 55th A2 chord. To the right of this is an IRC, in this case 5:4:8:12. These numbers are ordered from lowest (bass) strings to highest (treble) strings which is why the 5 appears before the 4. The 1.317 here is the overall strength of the chord. On the right the note names are listed (not in order of pitch but from lower strings to higher).

|       |          |       |              |  |   |  |   |  |
|-------|----------|-------|--------------|--|---|--|---|--|
| A2-56 | 5:4:8:12 | 1.317 | C#2,A2,A3,E3 |  |   |  |   |  |
| X     |          |       |              |  |   |  |   |  |
| X     |          |       |              |  |   |  |   |  |
| N     |          |       |              |  |   |  | O |  |
| N     |          |       |              |  | O |  |   |  |
| O     |          |       |              |  |   |  |   |  |
| N     |          |       |              |  |   |  | O |  |

There are no lush chords on A#2 or A#3. On both F#1 and F#2 there are only two lush chords available and in both cases one chord is a subset of the other. Some other notes have a plenitude of chords (for example there are 148 chords on C2). The range of chords is from E1 to C4 and I don't go beyond the 12th fret. Some chords with notes on frets higher than the 8th fret are not listed.

Some chords are difficult to play but I included them for

completeness.

Note that an Eagle D functions differently to a 12TET D. An Eagle D is  $9/5$  (1019 cents) above E (1/1) whereas a 12TET D is  $16/9$  (1000 cents) above E (1/1).

Here are the chords...

|      |             |       |                   |
|------|-------------|-------|-------------------|
| E1-1 | 1:2:3:4:3:4 | 5.333 | E1,E2,B3,E3,B3,E3 |
| O    |             |       |                   |
| O    |             |       |                   |
| N    |             |       | O                 |
| N    |             |       | O                 |
| N    |             |       | O                 |
| O    |             |       |                   |
|      | -           | -     | -                 |

|      |             |       |                   |
|------|-------------|-------|-------------------|
| E1-2 | 1:2:3:4:3:6 | 5.167 | E1,E2,B3,E3,B3,B4 |
| N    |             |       | O                 |
| O    |             |       |                   |
| N    |             |       | O                 |
| N    |             |       | O                 |
| N    |             |       | O                 |
| O    |             |       |                   |
|      | -           | -     | -                 |

|      |             |       |                    |
|------|-------------|-------|--------------------|
| E1-3 | 1:2:3:4:5:4 | 5.067 | E1,E2,B3,E3,G#3,E3 |
| O    |             |       |                    |
| N    |             |       | O                  |
| N    |             |       | O                  |
| N    |             |       | O                  |
| N    |             |       | O                  |
| O    |             |       |                    |
|      | -           | -     | -                  |

|      |             |     |                    |
|------|-------------|-----|--------------------|
| E1-4 | 1:2:3:4:5:6 | 4.9 | E1,E2,B3,E3,G#3,B4 |
| N    |             |     | O                  |
| N    |             |     | O                  |
| N    |             |     | O                  |
| N    |             |     | O                  |
| N    |             |     | O                  |
| O    |             |     |                    |
|      | -           | -   | -                  |

|      |             |      |                    |
|------|-------------|------|--------------------|
| E1-5 | 2:3:4:5:6:8 | 3.15 | E1,B2,E2,G#2,B3,E3 |
| O    |             |      |                    |
| O    |             |      |                    |
| N    | O           |      |                    |
| N    |             | O    |                    |
| N    |             | O    |                    |
| O    |             |      |                    |
|      | -           | -    | -                  |



|      |             |       |                   |   |  |   |  |   |  |  |   |
|------|-------------|-------|-------------------|---|--|---|--|---|--|--|---|
| E1-6 | 2:3:4:6:6:8 | 3.083 | E1,B2,E2,B3,B3,E3 |   |  |   |  |   |  |  |   |
| O    |             |       |                   |   |  |   |  |   |  |  |   |
| O    |             |       |                   |   |  |   |  |   |  |  |   |
| N    |             |       |                   | O |  |   |  |   |  |  |   |
| N    |             | O     |                   |   |  |   |  |   |  |  |   |
| N    |             | O     |                   |   |  |   |  |   |  |  |   |
| O    |             |       |                   |   |  |   |  |   |  |  |   |
|      |             | -     |                   | - |  | - |  | - |  |  | - |

|      |             |     |                   |   |  |   |  |   |  |  |   |
|------|-------------|-----|-------------------|---|--|---|--|---|--|--|---|
| E1-7 | 2:3:4:6:8:8 | 3.0 | E1,B2,E2,B3,E3,E3 |   |  |   |  |   |  |  |   |
| O    |             |     |                   |   |  |   |  |   |  |  |   |
| N    |             |     |                   | O |  |   |  |   |  |  |   |
| N    |             |     | O                 |   |  |   |  |   |  |  |   |
| N    |             | O   |                   |   |  |   |  |   |  |  |   |
| N    |             | O   |                   |   |  |   |  |   |  |  |   |
| O    |             |     |                   |   |  |   |  |   |  |  |   |
|      |             | -   |                   | - |  | - |  | - |  |  | - |

|      |              |      |                    |   |  |   |  |   |  |  |   |
|------|--------------|------|--------------------|---|--|---|--|---|--|--|---|
| E1-8 | 2:3:4:6:8:10 | 2.95 | E1,B2,E2,B3,E3,G#3 |   |  |   |  |   |  |  |   |
| N    |              |      | O                  |   |  |   |  |   |  |  |   |
| N    |              |      | O                  | O |  |   |  |   |  |  |   |
| N    |              |      | O                  |   |  |   |  |   |  |  |   |
| N    |              | O    |                    |   |  |   |  |   |  |  |   |
| N    |              | O    |                    |   |  |   |  |   |  |  |   |
| O    |              |      |                    |   |  |   |  |   |  |  |   |
|      |              | -    |                    | - |  | - |  | - |  |  | - |

|      |             |       |                    |   |   |   |  |   |  |  |   |
|------|-------------|-------|--------------------|---|---|---|--|---|--|--|---|
| E1-9 | 2:4:5:6:6:8 | 2.817 | E1,E2,G#2,B3,B3,E3 |   |   |   |  |   |  |  |   |
| O    |             |       |                    |   |   |   |  |   |  |  |   |
| O    |             |       |                    |   |   |   |  |   |  |  |   |
| N    |             |       | O                  |   | O |   |  |   |  |  |   |
| N    |             |       |                    |   |   | O |  |   |  |  |   |
| N    |             |       |                    |   |   |   |  |   |  |  |   |
| O    |             |       |                    |   |   |   |  |   |  |  |   |
|      |             | -     |                    | - |   | - |  | - |  |  | - |

|       |           |      |                |   |  |   |  |   |  |  |   |
|-------|-----------|------|----------------|---|--|---|--|---|--|--|---|
| E1-10 | 2:3:4:6:8 | 2.75 | E1,B2,E2,B3,E3 |   |  |   |  |   |  |  |   |
| X     |           |      |                |   |  |   |  |   |  |  |   |
| N     |           |      |                | O |  |   |  |   |  |  |   |
| N     |           |      | O              |   |  |   |  |   |  |  |   |
| N     |           | O    |                |   |  |   |  |   |  |  |   |
| N     |           | O    |                |   |  |   |  |   |  |  |   |
| O     |           |      |                |   |  |   |  |   |  |  |   |
|       |           | -    |                | - |  | - |  | - |  |  | - |

|       |             |       |                    |
|-------|-------------|-------|--------------------|
| E1-11 | 2:4:5:6:8:8 | 2.733 | E1,E2,G#2,B3,E3,E3 |
| O     |             |       |                    |
| N     |             | O     |                    |
| N     | O           |       |                    |
| N     |             | O     |                    |
| N     |             |       | O                  |
| O     |             |       |                    |
|       | -           | -     | -                  |

|       |             |       |                    |
|-------|-------------|-------|--------------------|
| E1-12 | 2:4:5:8:6:8 | 2.733 | E1,E2,G#2,E3,B3,E3 |
| O     |             |       |                    |
| O     |             |       |                    |
| N     |             |       | O                  |
| N     |             | O     |                    |
| N     |             |       | O                  |
| O     |             |       |                    |
|       | -           | -     | -                  |

|       |             |       |                    |
|-------|-------------|-------|--------------------|
| E1-13 | 2:5:6:8:6:8 | 2.567 | E1,G#2,B3,E3,B3,E3 |
| O     |             |       |                    |
| O     |             |       |                    |
| N     |             |       | O                  |
| N     |             |       | O                  |
| N     |             |       |                    |
| O     |             |       | O                  |
|       | -           | -     | -                  |

|       |             |       |                 |
|-------|-------------|-------|-----------------|
| E1-14 | 4:6:9:12:12 | 1.389 | E1,B2,F#2,B3,B3 |
| X     |             |       |                 |
| O     |             |       |                 |
| N     |             | O     |                 |
| N     |             | O     |                 |
| N     | O           |       |                 |
| O     |             |       |                 |
|       | -           | -     | -               |

|       |             |       |                  |
|-------|-------------|-------|------------------|
| E1-15 | 4:6:9:12:15 | 1.356 | E1,B2,F#2,B3,D#3 |
| X     |             |       |                  |
| N     |             | O     |                  |
| N     |             | O     |                  |
| N     |             | O     |                  |
| N     | O           |       |                  |
| O     |             |       |                  |
|       | -           | -     | -                |

|       |          |       |               |   |  |   |   |  |  |  |   |
|-------|----------|-------|---------------|---|--|---|---|--|--|--|---|
| E1-16 | 4:6:9:10 | 1.256 | E1,B2,F#2,G#2 |   |  |   |   |  |  |  |   |
| X     |          |       |               |   |  |   |   |  |  |  |   |
| X     |          |       |               |   |  |   |   |  |  |  |   |
| N     | O        |       |               |   |  |   |   |  |  |  |   |
| N     |          |       | O             |   |  |   |   |  |  |  |   |
| N     |          | O     |               |   |  |   |   |  |  |  |   |
| O     |          |       |               |   |  |   |   |  |  |  |   |
|       |          | -     |               | - |  | - | - |  |  |  | - |

|       |          |       |              |   |  |   |   |  |  |  |   |
|-------|----------|-------|--------------|---|--|---|---|--|--|--|---|
| E1-17 | 4:6:9:12 | 1.222 | E1,B2,F#2,B3 |   |  |   |   |  |  |  |   |
| X     |          |       |              |   |  |   |   |  |  |  |   |
| X     |          |       |              |   |  |   |   |  |  |  |   |
| N     |          |       | O            |   |  |   |   |  |  |  |   |
| N     |          |       | O            |   |  |   |   |  |  |  |   |
| N     | O        |       |              |   |  |   |   |  |  |  |   |
| O     |          |       |              |   |  |   |   |  |  |  |   |
|       |          | -     |              | - |  | - | - |  |  |  | - |

|       |              |       |                   |   |   |   |   |  |  |  |   |
|-------|--------------|-------|-------------------|---|---|---|---|--|--|--|---|
| E1-18 | 4:9:10:15:12 | 1.222 | E1,F#2,G#2,D#3,B3 |   |   |   |   |  |  |  |   |
| X     |              |       |                   |   |   |   |   |  |  |  |   |
| O     |              |       |                   |   |   |   |   |  |  |  |   |
| N     |              |       |                   |   |   | O |   |  |  |  |   |
| N     |              |       |                   |   | O |   |   |  |  |  |   |
| N     |              |       |                   |   |   |   | O |  |  |  |   |
| O     |              |       |                   |   |   |   |   |  |  |  |   |
|       |              | -     |                   | - |   | - | - |  |  |  | - |

|       |              |       |                  |   |  |   |   |  |  |  |   |
|-------|--------------|-------|------------------|---|--|---|---|--|--|--|---|
| E1-19 | 4:9:12:15:12 | 1.189 | E1,F#2,B3,D#3,B3 |   |  |   |   |  |  |  |   |
| X     |              |       |                  |   |  |   |   |  |  |  |   |
| O     |              |       |                  |   |  |   |   |  |  |  |   |
| N     |              |       |                  |   |  | O |   |  |  |  |   |
| N     |              |       |                  |   |  |   | O |  |  |  |   |
| N     |              |       |                  |   |  |   | O |  |  |  |   |
| O     |              |       |                  |   |  |   |   |  |  |  |   |
|       |              | -     |                  | - |  | - | - |  |  |  | - |

|       |               |       |                  |   |  |   |   |   |   |  |   |
|-------|---------------|-------|------------------|---|--|---|---|---|---|--|---|
| E1-20 | 4:10:12:15:12 | 1.167 | E1,G#2,B3,D#3,B3 |   |  |   |   |   |   |  |   |
| X     |               |       |                  |   |  |   |   |   |   |  |   |
| O     |               |       |                  |   |  |   |   |   |   |  |   |
| N     |               |       |                  |   |  | O |   |   |   |  |   |
| N     |               |       |                  |   |  |   | O |   |   |  |   |
| N     |               |       |                  |   |  |   |   | O |   |  |   |
| O     |               |       |                  |   |  |   |   |   | O |  |   |
|       |               | -     |                  | - |  | - | - |   |   |  | - |

| E1-21 | 4:8:9:12 | 1.139 | E1,E2,F#2,B3 |   |  |   |
|-------|----------|-------|--------------|---|--|---|
| X     |          |       |              |   |  |   |
| X     |          |       |              |   |  |   |
| N     |          |       | O            |   |  |   |
| N     |          |       | O            |   |  |   |
| N     |          |       |              | O |  |   |
| O     |          |       |              |   |  |   |
|       | -        | -     | -            | - |  | - |

| E1-22 | 4:10:12:15 | 1.0 | E1,G#2,B3,D#3 |   |   |   |
|-------|------------|-----|---------------|---|---|---|
| X     |            |     |               |   |   |   |
| X     |            |     |               |   |   |   |
| N     |            |     |               | O |   |   |
| N     |            |     |               |   | O |   |
| N     |            |     |               |   |   | O |
| O     |            |     |               |   |   |   |
|       | -          | -   | -             | - |   | - |

| F1-1 | 2:3:4:5:6:8 | 3.15 | F1,C2,F2,A3,C3,F3 |  |  |  |  |  |  |
|------|-------------|------|-------------------|--|--|--|--|--|--|
| N    | O           |      |                   |  |  |  |  |  |  |
| N    | O           |      |                   |  |  |  |  |  |  |
| N    |             | O    |                   |  |  |  |  |  |  |
| N    |             |      | O                 |  |  |  |  |  |  |
| N    |             |      | O                 |  |  |  |  |  |  |
| N    | O           |      |                   |  |  |  |  |  |  |

| F1-2 | 2:3:4:5:6 | 2.9 | F1,C2,F2,A3,C3 |  |  |  |  |  |  |
|------|-----------|-----|----------------|--|--|--|--|--|--|
| X    |           |     |                |  |  |  |  |  |  |
| N    | O         |     |                |  |  |  |  |  |  |
| N    |           | O   |                |  |  |  |  |  |  |
| N    |           |     | O              |  |  |  |  |  |  |
| N    |           |     | O              |  |  |  |  |  |  |
| N    | O         |     |                |  |  |  |  |  |  |

[illegible]

|      |         |       |             |  |  |  |  |  |  |
|------|---------|-------|-------------|--|--|--|--|--|--|
| F1-4 | 2:3:4:5 | 2.567 | F1,C2,F2,A3 |  |  |  |  |  |  |
| X    |         |       |             |  |  |  |  |  |  |
| X    |         |       |             |  |  |  |  |  |  |
| N    | O       |       |             |  |  |  |  |  |  |
| N    |         | O     |             |  |  |  |  |  |  |
| N    |         | O     |             |  |  |  |  |  |  |
| N    | O       |       |             |  |  |  |  |  |  |

|      |                |       |                    |
|------|----------------|-------|--------------------|
| F1-5 | 4:5:7:10:12:15 | 1.686 | F1,A2,D#2,A3,C3,E3 |
| O    |                |       |                    |
| N    | O              |       |                    |
| N    | O              |       |                    |
| N    | O              |       |                    |
| O    |                |       |                    |
| N    | O              |       |                    |

|      |                |       |                   |  |   |  |   |  |   |  |   |  |
|------|----------------|-------|-------------------|--|---|--|---|--|---|--|---|--|
| F1-6 | 4:5:8:10:12:16 | 1.642 | F1,A2,F2,A3,C3,F3 |  |   |  |   |  |   |  |   |  |
| N    | O              |       |                   |  |   |  |   |  |   |  |   |  |
| N    | O              |       |                   |  |   |  |   |  |   |  |   |  |
| N    |                | O     |                   |  |   |  |   |  |   |  |   |  |
| N    |                |       | O                 |  |   |  |   |  |   |  |   |  |
| O    |                |       |                   |  |   |  |   |  |   |  |   |  |
| N    | O              |       |                   |  |   |  |   |  |   |  |   |  |
|      |                |       | -                 |  | - |  | - |  | - |  | - |  |

|      |            |       |                 |  |   |  |   |  |   |  |   |  |
|------|------------|-------|-----------------|--|---|--|---|--|---|--|---|--|
| F1-7 | 4:5:7:9:12 | 1.574 | F1,A2,D#2,G2,C3 |  |   |  |   |  |   |  |   |  |
| X    |            |       |                 |  |   |  |   |  |   |  |   |  |
| N    | O          |       |                 |  |   |  |   |  |   |  |   |  |
| O    |            |       |                 |  |   |  |   |  |   |  |   |  |
| N    | O          |       |                 |  |   |  |   |  |   |  |   |  |
| O    |            |       |                 |  |   |  |   |  |   |  |   |  |
| N    | O          |       |                 |  |   |  |   |  |   |  |   |  |
|      |            |       | -               |  | - |  | - |  | - |  | - |  |

|      |             |       |                 |  |   |  |   |  |   |  |   |  |
|------|-------------|-------|-----------------|--|---|--|---|--|---|--|---|--|
| F1-8 | 4:5:7:10:12 | 1.552 | F1,A2,D#2,A3,C3 |  |   |  |   |  |   |  |   |  |
| X    |             |       |                 |  |   |  |   |  |   |  |   |  |
| N    | O           |       |                 |  |   |  |   |  |   |  |   |  |
| N    |             | O     |                 |  |   |  |   |  |   |  |   |  |
| N    | O           |       |                 |  |   |  |   |  |   |  |   |  |
| O    |             |       |                 |  |   |  |   |  |   |  |   |  |
| N    | O           |       |                 |  |   |  |   |  |   |  |   |  |
|      |             |       | -               |  | - |  | - |  | - |  | - |  |

|      |            |       |                |  |   |  |   |  |   |  |   |  |
|------|------------|-------|----------------|--|---|--|---|--|---|--|---|--|
| F1-9 | 4:5:8:9:12 | 1.539 | F1,A2,F2,G2,C3 |  |   |  |   |  |   |  |   |  |
| X    |            |       |                |  |   |  |   |  |   |  |   |  |
| N    | O          |       |                |  |   |  |   |  |   |  |   |  |
| O    |            |       |                |  |   |  |   |  |   |  |   |  |
| N    |            |       | O              |  |   |  |   |  |   |  |   |  |
| O    |            |       |                |  |   |  |   |  |   |  |   |  |
| N    | O          |       |                |  |   |  |   |  |   |  |   |  |
|      |            |       | -              |  | - |  | - |  | - |  | - |  |

|       |             |       |                |  |   |  |   |  |   |  |   |  |
|-------|-------------|-------|----------------|--|---|--|---|--|---|--|---|--|
| F1-10 | 4:5:8:10:12 | 1.517 | F1,A2,F2,A3,C3 |  |   |  |   |  |   |  |   |  |
| X     |             |       |                |  |   |  |   |  |   |  |   |  |
| N     | O           |       |                |  |   |  |   |  |   |  |   |  |
| N     |             | O     |                |  |   |  |   |  |   |  |   |  |
| N     |             |       | O              |  |   |  |   |  |   |  |   |  |
| O     |             |       |                |  |   |  |   |  |   |  |   |  |
| N     | O           |       |                |  |   |  |   |  |   |  |   |  |
|       |             |       | -              |  | - |  | - |  | - |  | - |  |

|       |            |       |                 |   |   |   |   |  |  |   |  |
|-------|------------|-------|-----------------|---|---|---|---|--|--|---|--|
| F1-11 | 4:6:7:9:12 | 1.508 | F1,C2,D#2,G2,C3 |   |   |   |   |  |  |   |  |
| X     |            |       |                 |   |   |   |   |  |  |   |  |
| N     | O          |       |                 |   |   |   |   |  |  |   |  |
| O     |            |       |                 |   |   |   |   |  |  |   |  |
| N     | O          |       |                 |   |   |   |   |  |  |   |  |
| N     |            |       | O               |   |   |   |   |  |  |   |  |
| N     | O          |       |                 |   |   |   |   |  |  |   |  |
|       |            | -     |                 | - | - | - | - |  |  | - |  |

|       |             |       |                 |   |   |   |   |  |  |   |  |
|-------|-------------|-------|-----------------|---|---|---|---|--|--|---|--|
| F1-12 | 4:5:8:10:14 | 1.493 | F1,A2,F2,A3,D#3 |   |   |   |   |  |  |   |  |
| X     |             |       |                 |   |   |   |   |  |  |   |  |
| N     |             |       |                 | O |   |   |   |  |  |   |  |
| N     |             | O     |                 |   |   |   |   |  |  |   |  |
| N     |             |       | O               |   |   |   |   |  |  |   |  |
| O     |             |       |                 |   |   |   |   |  |  |   |  |
| N     | O           |       |                 |   |   |   |   |  |  |   |  |
|       |             | -     |                 | - | - | - | - |  |  | - |  |

|       |            |       |                |   |   |   |   |  |  |   |  |
|-------|------------|-------|----------------|---|---|---|---|--|--|---|--|
| F1-13 | 4:6:8:9:12 | 1.472 | F1,C2,F2,G2,C3 |   |   |   |   |  |  |   |  |
| X     |            |       |                |   |   |   |   |  |  |   |  |
| N     | O          |       |                |   |   |   |   |  |  |   |  |
| O     |            |       |                |   |   |   |   |  |  |   |  |
| N     |            |       | O              |   |   |   |   |  |  |   |  |
| N     |            |       | O              |   |   |   |   |  |  |   |  |
| N     | O          |       |                |   |   |   |   |  |  |   |  |
|       |            | -     |                | - | - | - | - |  |  | - |  |

|       |         |       |              |   |   |   |   |  |  |   |  |
|-------|---------|-------|--------------|---|---|---|---|--|--|---|--|
| F1-14 | 4:5:7:9 | 1.408 | F1,A2,D#2,G2 |   |   |   |   |  |  |   |  |
| X     |         |       |              |   |   |   |   |  |  |   |  |
| X     |         |       |              |   |   |   |   |  |  |   |  |
| O     |         |       |              |   |   |   |   |  |  |   |  |
| N     | O       |       |              |   |   |   |   |  |  |   |  |
| O     |         |       |              |   |   |   |   |  |  |   |  |
| N     | O       |       |              |   |   |   |   |  |  |   |  |
|       |         | -     |              | - | - | - | - |  |  | - |  |

|       |          |       |              |   |   |   |   |  |  |   |  |
|-------|----------|-------|--------------|---|---|---|---|--|--|---|--|
| F1-15 | 4:5:7:10 | 1.386 | F1,A2,D#2,A3 |   |   |   |   |  |  |   |  |
| X     |          |       |              |   |   |   |   |  |  |   |  |
| X     |          |       |              |   |   |   |   |  |  |   |  |
| N     |          | O     |              |   |   |   |   |  |  |   |  |
| N     | O        |       |              |   |   |   |   |  |  |   |  |
| O     |          |       |              |   |   |   |   |  |  |   |  |
| N     | O        |       |              |   |   |   |   |  |  |   |  |
|       |          | -     |              | - | - | - | - |  |  | - |  |

|       |         |       |             |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| F1-16 | 4:5:8:9 | 1.372 | F1,A2,F2,G2 |   |   |  |   |
| X     |         |       |             |   |   |  |   |
| X     |         |       |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     |         | O     |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     | O       |       |             |   |   |  |   |
|       |         | -     | -           | - | - |  | - |

|       |          |      |             |   |   |  |   |
|-------|----------|------|-------------|---|---|--|---|
| F1-17 | 4:5:8:10 | 1.35 | F1,A2,F2,A3 |   |   |  |   |
| X     |          |      |             |   |   |  |   |
| X     |          |      |             |   |   |  |   |
| N     |          | O    |             |   |   |  |   |
| N     |          |      | O           |   |   |  |   |
| O     |          |      |             |   |   |  |   |
| N     | O        |      |             |   |   |  |   |
|       |          | -    | -           | - | - |  | - |

|       |         |       |              |   |   |  |   |
|-------|---------|-------|--------------|---|---|--|---|
| F1-18 | 4:6:7:9 | 1.341 | F1,C2,D#2,G2 |   |   |  |   |
| X     |         |       |              |   |   |  |   |
| X     |         |       |              |   |   |  |   |
| O     |         |       |              |   |   |  |   |
| N     | O       |       |              |   |   |  |   |
| N     |         | O     |              |   |   |  |   |
| N     | O       |       |              |   |   |  |   |
|       |         | -     | -            | - | - |  | - |

|       |          |       |              |   |   |  |   |
|-------|----------|-------|--------------|---|---|--|---|
| F1-19 | 4:6:7:10 | 1.319 | F1,C2,D#2,A3 |   |   |  |   |
| X     |          |       |              |   |   |  |   |
| X     |          |       |              |   |   |  |   |
| N     |          | O     |              |   |   |  |   |
| N     | O        |       |              |   |   |  |   |
| N     |          | O     |              |   |   |  |   |
| N     | O        |       |              |   |   |  |   |
|       |          | -     | -            | - | - |  | - |

|       |         |       |             |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| F1-20 | 4:6:8:9 | 1.306 | F1,C2,F2,G2 |   |   |  |   |
| X     |         |       |             |   |   |  |   |
| X     |         |       |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     |         | O     |             |   |   |  |   |
| N     |         | O     |             |   |   |  |   |
| N     | O       |       |             |   |   |  |   |
|       |         | -     | -           | - | - |  | - |



| F#1-1 | 4:5:8:10 | 1.35 | F#1,A#2,F#2,A#3 |   |   |  |   |  |   |  |  |   |
|-------|----------|------|-----------------|---|---|--|---|--|---|--|--|---|
| X     |          |      |                 |   |   |  |   |  |   |  |  |   |
| X     |          |      |                 |   |   |  |   |  |   |  |  |   |
| N     |          |      | O               |   |   |  |   |  |   |  |  |   |
| N     |          |      |                 | O |   |  |   |  |   |  |  |   |
| N     | O        |      |                 |   |   |  |   |  |   |  |  |   |
| N     |          | O    |                 |   |   |  |   |  |   |  |  |   |
|       |          |      | -               |   | - |  | - |  | - |  |  | - |

| F#1-2 | 4:5:8 | 1.15 | F#1,A#2,F#2 |  |   |  |   |  |   |  |  |   |
|-------|-------|------|-------------|--|---|--|---|--|---|--|--|---|
| X     |       |      |             |  |   |  |   |  |   |  |  |   |
| X     |       |      |             |  |   |  |   |  |   |  |  |   |
| X     |       |      |             |  |   |  |   |  |   |  |  |   |
| N     |       |      | O           |  |   |  |   |  |   |  |  |   |
| N     | O     |      |             |  |   |  |   |  |   |  |  |   |
| N     |       | O    |             |  |   |  |   |  |   |  |  |   |
|       |       |      | -           |  | - |  | - |  | - |  |  | - |

| G1-1 | 2:3:3:4:5:8 | 3.483 | G1,D2,D2,G2,B3,G3 |
|------|-------------|-------|-------------------|
| N    |             |       |                   |
| O    |             |       |                   |
| O    |             |       |                   |
| O    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
|      | -           | -     | -                 |

| G1-2 | 2:3:3:4:6:8 | 3.417 | G1,D2,D2,G2,D3,G3 |
|------|-------------|-------|-------------------|
| N    |             |       |                   |
| N    |             |       |                   |
| O    |             |       |                   |
| O    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
|      | -           | -     | -                 |

| G1-3 | 2:3:3:5:5:8 | 3.383 | G1,D2,D2,B3,B3,G3 |
|------|-------------|-------|-------------------|
| N    |             |       |                   |
| O    |             |       |                   |
| N    |             |       |                   |
| O    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
|      | -           | -     | -                 |

| G1-4 | 2:3:4:4:5:8 | 3.317 | G1,D2,G2,G2,B3,G3 |
|------|-------------|-------|-------------------|
| N    |             |       |                   |
| O    |             |       |                   |
| O    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
|      | -           | -     | -                 |

| G1-5 | 2:3:3:5:6:8 | 3.317 | G1,D2,D2,B3,D3,G3 |
|------|-------------|-------|-------------------|
| N    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
| O    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
|      | -           | -     | -                 |

|      |             |      |                   |   |   |  |   |  |  |  |   |
|------|-------------|------|-------------------|---|---|--|---|--|--|--|---|
| G1-6 | 2:3:4:4:6:8 | 3.25 | G1,D2,G2,G2,D3,G3 |   |   |  |   |  |  |  |   |
| N    |             | O    |                   |   |   |  |   |  |  |  |   |
| N    |             | O    |                   |   |   |  |   |  |  |  |   |
| O    |             |      |                   |   |   |  |   |  |  |  |   |
| N    |             |      |                   | O |   |  |   |  |  |  |   |
| N    |             |      |                   | O |   |  |   |  |  |  |   |
| N    |             | O    |                   |   |   |  |   |  |  |  |   |
|      | -           |      | -                 |   | - |  | - |  |  |  | - |

|      |           |       |                |   |   |  |   |  |  |  |   |
|------|-----------|-------|----------------|---|---|--|---|--|--|--|---|
| G1-7 | 2:3:3:4:5 | 3.233 | G1,D2,D2,G2,B3 |   |   |  |   |  |  |  |   |
| X    |           |       |                |   |   |  |   |  |  |  |   |
| O    |           |       |                |   |   |  |   |  |  |  |   |
| O    |           |       |                |   |   |  |   |  |  |  |   |
| O    |           |       |                |   |   |  |   |  |  |  |   |
| N    |           |       |                | O |   |  |   |  |  |  |   |
| N    |           | O     |                |   |   |  |   |  |  |  |   |
|      | -         |       | -              |   | - |  | - |  |  |  | - |

|      |             |       |                   |   |   |  |   |  |  |  |   |
|------|-------------|-------|-------------------|---|---|--|---|--|--|--|---|
| G1-8 | 2:3:4:5:5:8 | 3.217 | G1,D2,G2,B3,B3,G3 |   |   |  |   |  |  |  |   |
| N    |             | O     |                   |   |   |  |   |  |  |  |   |
| O    |             |       |                   |   |   |  |   |  |  |  |   |
| N    |             |       | O                 |   |   |  |   |  |  |  |   |
| N    |             |       |                   | O |   |  |   |  |  |  |   |
| N    |             |       |                   | O |   |  |   |  |  |  |   |
| N    |             | O     |                   |   |   |  |   |  |  |  |   |
|      | -           |       | -                 |   | - |  | - |  |  |  | - |

|      |           |       |                |   |   |  |   |  |  |  |   |
|------|-----------|-------|----------------|---|---|--|---|--|--|--|---|
| G1-9 | 2:3:3:4:6 | 3.167 | G1,D2,D2,G2,D3 |   |   |  |   |  |  |  |   |
| X    |           |       |                |   |   |  |   |  |  |  |   |
| N    |           | O     |                |   |   |  |   |  |  |  |   |
| O    |           |       |                |   |   |  |   |  |  |  |   |
| O    |           |       |                |   |   |  |   |  |  |  |   |
| N    |           |       |                | O |   |  |   |  |  |  |   |
| N    |           | O     |                |   |   |  |   |  |  |  |   |
|      | -         |       | -              |   | - |  | - |  |  |  | - |

|       |             |      |                   |   |   |  |   |  |  |  |   |
|-------|-------------|------|-------------------|---|---|--|---|--|--|--|---|
| G1-10 | 2:3:4:5:6:8 | 3.15 | G1,D2,G2,B3,D3,G3 |   |   |  |   |  |  |  |   |
| N     |             | O    |                   |   |   |  |   |  |  |  |   |
| N     |             | O    |                   |   |   |  |   |  |  |  |   |
| N     |             |      | O                 |   |   |  |   |  |  |  |   |
| N     |             |      |                   | O |   |  |   |  |  |  |   |
| N     |             |      |                   | O |   |  |   |  |  |  |   |
| N     |             | O    |                   |   |   |  |   |  |  |  |   |
|       | -           |      | -                 |   | - |  | - |  |  |  | - |

| G1-11 | 2:3:3:5:5 | 3.133 | G1,D2,D2,B3,B3 |   |  |   |
|-------|-----------|-------|----------------|---|--|---|
| X     |           |       |                |   |  |   |
| O     |           |       |                |   |  |   |
| N     |           | O     |                |   |  |   |
| O     |           |       |                |   |  |   |
| N     |           | O     |                |   |  |   |
| N     | O         |       |                |   |  |   |
|       | -         | -     | -              | - |  | - |

| G1-12 | 2:3:4:4:5 | 3.067 | G1,D2,G2,G2,B3 |   |  |   |
|-------|-----------|-------|----------------|---|--|---|
| X     |           |       |                |   |  |   |
| O     |           |       |                |   |  |   |
| O     |           |       |                |   |  |   |
| N     |           | O     |                |   |  |   |
| N     |           | O     |                |   |  |   |
| N     | O         |       |                |   |  |   |
|       | -         | -     | -              | - |  | - |

| G1-13 | 2:3:3:5:6 | 3.067 | G1,D2,D2,B3,D3 |   |  |   |
|-------|-----------|-------|----------------|---|--|---|
| X     |           |       |                |   |  |   |
| N     |           | O     |                |   |  |   |
| N     |           | O     |                |   |  |   |
| O     |           |       |                |   |  |   |
| N     |           | O     |                |   |  |   |
| N     | O         |       |                |   |  |   |
|       | -         | -     | -              | - |  | - |

| G1-14 | 2:3:4:4:6 | 3.0 | G1,D2,G2,G2,D3 |   |  |   |
|-------|-----------|-----|----------------|---|--|---|
| X     |           |     |                |   |  |   |
| N     |           | O   |                |   |  |   |
| O     |           |     |                |   |  |   |
| N     |           | O   |                |   |  |   |
| N     |           | O   |                |   |  |   |
| N     | O         |     |                |   |  |   |
|       | -         | -   | -              | - |  | - |

| G1-15 | 2:3:4:5:5 | 2.967 | G1,D2,G2,B3,B3 |   |  |   |
|-------|-----------|-------|----------------|---|--|---|
| X     |           |       |                |   |  |   |
| O     |           |       |                |   |  |   |
| N     |           | O     |                |   |  |   |
| N     |           | O     |                |   |  |   |
| N     |           | O     |                |   |  |   |
| N     | O         |       |                |   |  |   |
|       | -         | -     | -              | - |  | - |

| G1-16 | 2:3:4:5:6 | 2.9 | G1,D2,G2,B3,D3 |   |   |  |   |  |   |
|-------|-----------|-----|----------------|---|---|--|---|--|---|
| X     |           |     |                |   |   |  |   |  |   |
| N     |           | O   |                |   |   |  |   |  |   |
| N     |           |     | O              |   |   |  |   |  |   |
| N     |           |     |                | O |   |  |   |  |   |
| N     |           |     | O              | O |   |  |   |  |   |
| N     |           | O   |                |   |   |  |   |  |   |
|       | -         |     | -              |   | - |  | - |  | - |

| G1-17 | 2:3:3:4 | 2.833 | G1,D2,D2,G2 |   |   |  |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|--|---|
| X     |         |       |             |   |   |  |   |  |   |
| X     |         |       |             |   |   |  |   |  |   |
| O     |         |       |             |   |   |  |   |  |   |
| O     |         |       |             |   |   |  |   |  |   |
| N     |         |       |             | O |   |  |   |  |   |
| N     |         | O     |             |   |   |  |   |  |   |
|       | -       |       | -           |   | - |  | - |  | - |

| G1-18 | 2:3:3:5 | 2.733 | G1,D2,D2,B3 |   |   |  |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|--|---|
| X     |         |       |             |   |   |  |   |  |   |
| X     |         |       |             |   |   |  |   |  |   |
| N     |         |       | O           |   |   |  |   |  |   |
| O     |         |       |             |   |   |  |   |  |   |
| N     |         |       |             | O |   |  |   |  |   |
| N     |         | O     |             |   |   |  |   |  |   |
|       | -       |       | -           |   | - |  | - |  | - |

| G1-19 | 2:3:4:4 | 2.667 | G1,D2,G2,G2 |   |   |  |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|--|---|
| X     |         |       |             |   |   |  |   |  |   |
| X     |         |       |             |   |   |  |   |  |   |
| O     |         |       |             |   |   |  |   |  |   |
| N     |         |       |             | O |   |  |   |  |   |
| N     |         |       |             | O |   |  |   |  |   |
| N     |         | O     |             |   |   |  |   |  |   |
|       | -       |       | -           |   | - |  | - |  | - |

| G1-20 | 2:3:4:5 | 2.567 | G1,D2,G2,B3 |   |   |  |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|--|---|
| X     |         |       |             |   |   |  |   |  |   |
| X     |         |       |             |   |   |  |   |  |   |
| N     |         |       | O           |   |   |  |   |  |   |
| N     |         |       |             | O |   |  |   |  |   |
| N     |         |       |             | O |   |  |   |  |   |
| N     |         | O     |             |   |   |  |   |  |   |
|       | -       |       | -           |   | - |  | - |  | - |

|       |               |       |                   |
|-------|---------------|-------|-------------------|
| G1-21 | 4:5:6:8:10:16 | 1.808 | G1,B2,D2,G2,B3,G3 |
| N     |               | O     |                   |
| O     |               | O     |                   |
| O     |               |       |                   |
| N     | O             |       |                   |
| N     |               | O     |                   |
|       | -             |       | -                 |

|       |               |       |                   |
|-------|---------------|-------|-------------------|
| G1-22 | 4:5:6:8:12:16 | 1.775 | G1,B2,D2,G2,D3,G3 |
| N     |               | O     |                   |
| N     |               | O     |                   |
| O     |               |       |                   |
| O     |               |       |                   |
| N     | O             |       |                   |
| N     |               | O     |                   |
|       | -             |       | -                 |

|       |                |     |                    |
|-------|----------------|-----|--------------------|
| G1-23 | 4:6:6:10:10:15 | 1.7 | G1,D2,D2,B3,B3,F#3 |
| N     | O              |     |                    |
| O     |                |     |                    |
| N     |                | O   |                    |
| O     |                |     |                    |
| N     |                | O   |                    |
| N     |                | O   |                    |
|       | -              |     | -                  |

|       |            |       |                |
|-------|------------|-------|----------------|
| G1-24 | 4:5:6:8:10 | 1.683 | G1,B2,D2,G2,B3 |
| X     |            |       |                |
| O     |            |       |                |
| O     |            |       |                |
| O     |            |       |                |
| N     | O          |       |                |
| N     |            | O     |                |
|       | -          |       | -              |

|       |            |      |                |
|-------|------------|------|----------------|
| G1-25 | 4:5:6:8:12 | 1.65 | G1,B2,D2,G2,D3 |
| X     |            |      |                |
| N     |            | O    |                |
| O     |            |      |                |
| O     |            |      |                |
| N     | O          |      |                |
| N     |            | O    |                |
|       | -          |      | -              |

|       |             |       |                |   |  |   |  |   |  |   |
|-------|-------------|-------|----------------|---|--|---|--|---|--|---|
| G1-26 | 4:5:6:10:10 | 1.633 | G1,B2,D2,B3,B3 |   |  |   |  |   |  |   |
| X     |             |       |                |   |  |   |  |   |  |   |
| O     |             |       |                |   |  |   |  |   |  |   |
| N     |             |       |                | O |  |   |  |   |  |   |
| O     |             |       |                |   |  |   |  |   |  |   |
| N     |             | O     |                |   |  |   |  |   |  |   |
| N     |             |       | O              |   |  |   |  |   |  |   |
|       |             | -     |                | - |  | - |  | - |  | - |

|       |            |     |                |   |  |   |  |   |  |   |
|-------|------------|-----|----------------|---|--|---|--|---|--|---|
| G1-27 | 4:5:8:8:10 | 1.6 | G1,B2,G2,G2,B3 |   |  |   |  |   |  |   |
| X     |            |     |                |   |  |   |  |   |  |   |
| O     |            |     |                |   |  |   |  |   |  |   |
| O     |            |     |                |   |  |   |  |   |  |   |
| N     |            |     |                | O |  |   |  |   |  |   |
| N     |            | O   |                |   |  |   |  |   |  |   |
| N     |            |     | O              |   |  |   |  |   |  |   |
|       |            | -   |                | - |  | - |  | - |  | - |

|       |             |     |                |   |  |   |  |   |  |   |
|-------|-------------|-----|----------------|---|--|---|--|---|--|---|
| G1-28 | 4:5:6:10:12 | 1.6 | G1,B2,D2,B3,D3 |   |  |   |  |   |  |   |
| X     |             |     |                |   |  |   |  |   |  |   |
| N     |             |     | O              |   |  |   |  |   |  |   |
| N     |             |     |                | O |  |   |  |   |  |   |
| O     |             |     |                |   |  |   |  |   |  |   |
| N     |             | O   |                |   |  |   |  |   |  |   |
| N     |             |     | O              |   |  |   |  |   |  |   |
|       |             | -   |                | - |  | - |  | - |  | - |

|       |             |      |                |   |   |   |  |   |  |   |
|-------|-------------|------|----------------|---|---|---|--|---|--|---|
| G1-29 | 4:5:8:10:10 | 1.55 | G1,B2,G2,B3,B3 |   |   |   |  |   |  |   |
| X     |             |      |                |   |   |   |  |   |  |   |
| O     |             |      |                |   |   |   |  |   |  |   |
| N     |             |      |                | O |   |   |  |   |  |   |
| N     |             |      |                |   | O |   |  |   |  |   |
| N     |             | O    |                |   |   |   |  |   |  |   |
| N     |             |      | O              |   |   |   |  |   |  |   |
|       |             | -    |                | - |   | - |  | - |  | - |

|       |         |       |             |   |  |   |  |   |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|---|
| G1-30 | 4:5:6:8 | 1.483 | G1,B2,D2,G2 |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| O     |         |       |             |   |  |   |  |   |  |   |
| O     |         |       |             |   |  |   |  |   |  |   |
| N     |         | O     |             |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
|       |         | -     |             | - |  | - |  | - |  | - |

| G1-31 | 4:5:6:10 | 1.433 | G1,B2,D2,B3 |   |  |  |   |
|-------|----------|-------|-------------|---|--|--|---|
| X     |          |       |             |   |  |  |   |
| X     |          |       |             |   |  |  |   |
| N     |          |       | O           |   |  |  |   |
| O     |          |       |             |   |  |  |   |
| N     |          | O     |             |   |  |  |   |
| N     |          | O     |             |   |  |  |   |
|       | -        | -     | -           | - |  |  | - |

| G1-32 | 4:5:8:8 | 1.4 | G1,B2,G2,G2 |   |  |  |   |
|-------|---------|-----|-------------|---|--|--|---|
| X     |         |     |             |   |  |  |   |
| X     |         |     |             |   |  |  |   |
| O     |         |     |             |   |  |  |   |
| N     |         |     | O           |   |  |  |   |
| N     |         | O   |             |   |  |  |   |
| N     |         | O   |             |   |  |  |   |
|       | -       | -   | -           | - |  |  | - |

| G1-33 | 4:5:8:10 | 1.35 | G1,B2,G2,B3 |   |  |  |   |
|-------|----------|------|-------------|---|--|--|---|
| X     |          |      |             |   |  |  |   |
| X     |          |      |             |   |  |  |   |
| N     |          |      | O           |   |  |  |   |
| N     |          |      | O           |   |  |  |   |
| N     |          | O    |             |   |  |  |   |
| N     |          | O    |             |   |  |  |   |
|       | -        | -    | -           | - |  |  | - |



| G#1-1 | 2:3:4:6 | 2.5 | G#1,D#2,G#2,D#3 |   |  |   |   |   |  |  |   |
|-------|---------|-----|-----------------|---|--|---|---|---|--|--|---|
| X     |         |     |                 |   |  |   |   |   |  |  |   |
| X     |         |     |                 |   |  |   |   |   |  |  |   |
| N     |         |     |                 |   |  |   | O |   |  |  |   |
| N     |         |     |                 |   |  | O |   |   |  |  |   |
| N     |         |     |                 | O |  | O |   |   |  |  |   |
| N     |         |     |                 |   |  |   |   |   |  |  |   |
|       |         | -   |                 | - |  | - |   | - |  |  | - |

| G#1-2 | 2:3:4 | 2.167 | G#1,D#2,G#2 |   |  |   |  |   |  |  |   |
|-------|-------|-------|-------------|---|--|---|--|---|--|--|---|
| X     |       |       |             |   |  |   |  |   |  |  |   |
| X     |       |       |             |   |  |   |  |   |  |  |   |
| N     |       |       |             |   |  |   |  |   |  |  |   |
| N     |       |       |             |   |  | O |  |   |  |  |   |
| N     |       |       |             |   |  | O |  |   |  |  |   |
| N     |       |       |             | O |  |   |  |   |  |  |   |
|       |       | -     |             | - |  | - |  | - |  |  | - |

| G#1-3 | 4:6:8:9 | 1.306 | G#1,D#2,G#2,A#3 |   |  |   |  |   |  |  |   |
|-------|---------|-------|-----------------|---|--|---|--|---|--|--|---|
| X     |         |       |                 |   |  |   |  |   |  |  |   |
| X     |         |       |                 |   |  |   |  |   |  |  |   |
| N     |         | O     |                 |   |  |   |  |   |  |  |   |
| N     |         |       |                 |   |  | O |  |   |  |  |   |
| N     |         |       |                 |   |  | O |  |   |  |  |   |
| N     |         |       |                 | O |  |   |  |   |  |  |   |
|       |         | -     |                 | - |  | - |  | - |  |  | - |

|      |           |       |                |   |  |   |  |   |  |
|------|-----------|-------|----------------|---|--|---|--|---|--|
| A2-1 | 1:2:3:4:3 | 4.833 | A2,A3,E3,A4,E3 |   |  |   |  |   |  |
| O    |           |       |                |   |  |   |  |   |  |
| N    |           |       |                |   |  |   |  | O |  |
| N    |           |       |                |   |  |   |  | O |  |
| N    |           |       |                |   |  | O |  |   |  |
| O    |           |       |                |   |  |   |  |   |  |
| X    |           |       |                |   |  |   |  |   |  |
|      |           | -     |                | - |  | - |  | - |  |

|      |             |       |                    |   |   |   |  |   |  |
|------|-------------|-------|--------------------|---|---|---|--|---|--|
| A2-2 | 2:2:4:5:6:6 | 3.567 | A2,A2,A3,C#3,E3,E3 |   |   |   |  |   |  |
| O    |             |       |                    |   |   |   |  |   |  |
| N    |             |       |                    |   | O |   |  |   |  |
| N    |             |       |                    |   | O |   |  |   |  |
| N    |             |       |                    |   |   | O |  |   |  |
| O    |             |       |                    |   |   |   |  |   |  |
| N    |             |       |                    |   | O |   |  |   |  |
|      |             | -     |                    | - |   | - |  | - |  |

|      |             |       |                    |   |   |   |   |   |  |
|------|-------------|-------|--------------------|---|---|---|---|---|--|
| A2-3 | 2:2:4:5:6:8 | 3.483 | A2,A2,A3,C#3,E3,A4 |   |   |   |   |   |  |
| N    |             |       |                    |   | O |   |   |   |  |
| N    |             |       |                    |   | O |   |   |   |  |
| N    |             |       |                    |   |   | O |   |   |  |
| N    |             |       |                    |   |   |   | O |   |  |
| O    |             |       |                    |   |   |   |   |   |  |
| N    |             |       |                    |   | O |   |   |   |  |
|      |             | -     |                    | - |   | - |   | - |  |

|      |             |       |                    |   |   |   |   |   |  |
|------|-------------|-------|--------------------|---|---|---|---|---|--|
| A2-4 | 2:3:4:5:6:6 | 3.233 | A2,E2,A3,C#3,E3,E3 |   |   |   |   |   |  |
| O    |             |       |                    |   |   |   |   |   |  |
| N    |             |       |                    |   | O |   |   |   |  |
| N    |             |       |                    |   |   | O |   |   |  |
| N    |             |       |                    |   |   |   | O |   |  |
| N    |             |       |                    |   |   |   |   | O |  |
| N    |             |       |                    |   | O |   |   |   |  |
|      |             | -     |                    | - |   | - |   | - |  |

|      |             |      |                    |   |   |   |   |   |  |
|------|-------------|------|--------------------|---|---|---|---|---|--|
| A2-5 | 2:3:4:5:6:8 | 3.15 | A2,E2,A3,C#3,E3,A4 |   |   |   |   |   |  |
| N    |             |      |                    |   | O |   |   |   |  |
| N    |             |      |                    |   | O |   |   |   |  |
| N    |             |      |                    |   |   | O |   |   |  |
| N    |             |      |                    |   |   |   | O |   |  |
| N    |             |      |                    |   |   |   |   | O |  |
| N    |             |      |                    |   | O |   |   |   |  |
|      |             | -    |                    | - |   | - |   | - |  |

| A2-6 | 2:3:4:5:6 | 2.9 | A2,E2,A3,C#3,E3 |   |  |   |  |   |  |  |   |
|------|-----------|-----|-----------------|---|--|---|--|---|--|--|---|
| O    |           |     |                 |   |  |   |  |   |  |  |   |
| N    |           | O   |                 |   |  |   |  |   |  |  |   |
| N    |           | O   |                 |   |  |   |  |   |  |  |   |
| N    |           | O   |                 |   |  |   |  |   |  |  |   |
| O    |           |     |                 |   |  |   |  |   |  |  |   |
| X    |           |     |                 |   |  |   |  |   |  |  |   |
|      |           | -   |                 | - |  | - |  | - |  |  | - |

| A2-7 | 2:2:4:5 | 2.9 | A2,A2,A3,C#3 |   |   |   |  |   |  |  |   |
|------|---------|-----|--------------|---|---|---|--|---|--|--|---|
| X    |         |     |              |   |   |   |  |   |  |  |   |
| X    |         |     |              |   |   |   |  |   |  |  |   |
| N    |         |     |              |   | O |   |  |   |  |  |   |
| N    |         |     |              |   |   | O |  |   |  |  |   |
| O    |         |     |              |   |   |   |  |   |  |  |   |
| N    |         |     |              | O |   |   |  |   |  |  |   |
|      |         | -   |              | - |   | - |  | - |  |  | - |

| A2-8 | 2:3:4:5:8 | 2.817 | A2,E2,A3,C#3,A4 |   |  |   |  |   |  |  |   |
|------|-----------|-------|-----------------|---|--|---|--|---|--|--|---|
| N    |           |       |                 | O |  |   |  |   |  |  |   |
| N    |           | O     |                 |   |  |   |  |   |  |  |   |
| N    |           | O     |                 |   |  |   |  |   |  |  |   |
| N    |           | O     |                 |   |  |   |  |   |  |  |   |
| O    |           |       |                 |   |  |   |  |   |  |  |   |
| X    |           |       |                 |   |  |   |  |   |  |  |   |
|      |           | -     |                 | - |  | - |  | - |  |  | - |

| A2-9 | 2:3:4:6:8 | 2.75 | A2,E2,A3,E3,A4 |   |  |   |  |   |  |  |   |
|------|-----------|------|----------------|---|--|---|--|---|--|--|---|
| N    |           |      |                | O |  |   |  |   |  |  |   |
| N    |           |      |                | O |  |   |  |   |  |  |   |
| N    |           | O    |                |   |  |   |  |   |  |  |   |
| N    |           | O    |                |   |  |   |  |   |  |  |   |
| O    |           |      |                |   |  |   |  |   |  |  |   |
| X    |           |      |                |   |  |   |  |   |  |  |   |
|      |           | -    |                | - |  | - |  | - |  |  | - |

| A2-10 | 2:3:4:5 | 2.567 | A2,E2,A3,C#3 |   |   |   |  |   |  |  |   |
|-------|---------|-------|--------------|---|---|---|--|---|--|--|---|
| X     |         |       |              |   |   |   |  |   |  |  |   |
| X     |         |       |              |   |   |   |  |   |  |  |   |
| N     |         |       |              |   | O |   |  |   |  |  |   |
| N     |         |       |              |   |   | O |  |   |  |  |   |
| N     |         |       |              |   |   | O |  |   |  |  |   |
| N     |         |       |              | O |   |   |  |   |  |  |   |
|       |         | -     |              | - |   | - |  | - |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| A2-11 | 2:3:4:5 | 2.567 | A2,E2,A3,C#3 |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| N     | O       |       |              |   |   |  |  |  |   |
| N     | O       |       |              |   |   |  |  |  |   |
| N     | O       |       |              |   |   |  |  |  |   |
| O     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |           |       |                 |   |   |  |  |  |   |
|-------|-----------|-------|-----------------|---|---|--|--|--|---|
| A2-12 | 2:4:5:6:6 | 2.567 | A2,A3,C#3,E3,E3 |   |   |  |  |  |   |
| O     |           |       |                 |   |   |  |  |  |   |
| N     |           |       | O               |   |   |  |  |  |   |
| N     |           |       | O               | O |   |  |  |  |   |
| N     |           |       |                 | O |   |  |  |  |   |
| O     |           |       |                 |   |   |  |  |  |   |
| X     |           |       |                 |   |   |  |  |  |   |
|       |           | -     | -               | - | - |  |  |  | - |

|       |         |     |             |   |   |  |  |  |   |
|-------|---------|-----|-------------|---|---|--|--|--|---|
| A2-13 | 2:3:4:6 | 2.5 | A2,E2,A3,E3 |   |   |  |  |  |   |
| X     |         |     |             |   |   |  |  |  |   |
| N     |         |     | O           |   |   |  |  |  |   |
| N     | O       |     |             |   |   |  |  |  |   |
| N     | O       |     |             |   |   |  |  |  |   |
| O     |         |     |             |   |   |  |  |  |   |
| X     |         |     |             |   |   |  |  |  |   |
|       |         | -   | -           | - | - |  |  |  | - |

|       |           |       |                 |   |   |  |  |  |   |
|-------|-----------|-------|-----------------|---|---|--|--|--|---|
| A2-14 | 2:4:5:6:8 | 2.483 | A2,A3,C#3,E3,A4 |   |   |  |  |  |   |
| N     |           |       | O               |   |   |  |  |  |   |
| N     |           |       | O               |   |   |  |  |  |   |
| N     |           |       | O               | O |   |  |  |  |   |
| N     |           |       |                 | O |   |  |  |  |   |
| O     |           |       |                 |   |   |  |  |  |   |
| X     |           |       |                 |   |   |  |  |  |   |
|       |           | -     | -               | - | - |  |  |  | - |

|       |           |       |                 |   |   |   |   |   |   |
|-------|-----------|-------|-----------------|---|---|---|---|---|---|
| A2-15 | 2:5:6:8:6 | 2.317 | A2,C#3,E3,A4,E3 |   |   |   |   |   |   |
| O     |           |       |                 |   |   |   |   |   |   |
| N     |           |       |                 |   |   |   | O |   |   |
| N     |           |       |                 |   |   | O |   |   |   |
| N     |           |       |                 |   |   |   |   | O |   |
| O     |           |       |                 |   |   |   |   |   |   |
| X     |           |       |                 |   |   |   |   |   |   |
|       |           | -     | -               | - | - |   |   |   | - |

|       |              |       |                   |   |  |   |  |   |  |  |   |
|-------|--------------|-------|-------------------|---|--|---|--|---|--|--|---|
| A2-16 | 3:4:6:8:9:12 | 2.139 | E1,A2,E2,A3,B3,E3 |   |  |   |  |   |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |   |
| N     |              | O     |                   |   |  |   |  |   |  |  |   |
| N     |              | O     |                   |   |  |   |  |   |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |   |
|       |              | -     |                   | - |  | - |  | - |  |  | - |

|       |               |       |                    |   |  |   |  |   |  |  |   |
|-------|---------------|-------|--------------------|---|--|---|--|---|--|--|---|
| A2-17 | 3:4:6:8:10:12 | 2.117 | E1,A2,E2,A3,C#3,E3 |   |  |   |  |   |  |  |   |
| O     |               |       |                    |   |  |   |  |   |  |  |   |
| N     |               | O     |                    |   |  |   |  |   |  |  |   |
| N     |               | O     |                    |   |  |   |  |   |  |  |   |
| N     |               | O     |                    |   |  |   |  |   |  |  |   |
| O     |               |       |                    |   |  |   |  |   |  |  |   |
| O     |               |       |                    |   |  |   |  |   |  |  |   |
|       |               | -     |                    | - |  | - |  | - |  |  | - |

|       |              |       |                   |   |  |   |  |   |  |  |   |
|-------|--------------|-------|-------------------|---|--|---|--|---|--|--|---|
| A2-18 | 3:4:6:9:9:12 | 2.111 | E1,A2,E2,B3,B3,E3 |   |  |   |  |   |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |   |
| N     |              |       |                   | O |  |   |  |   |  |  |   |
| N     |              | O     |                   |   |  |   |  |   |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |   |
|       |              | -     |                   | - |  | - |  | - |  |  | - |

|       |               |       |                    |   |  |   |  |   |  |  |   |
|-------|---------------|-------|--------------------|---|--|---|--|---|--|--|---|
| A2-19 | 3:4:6:9:10:12 | 2.089 | E1,A2,E2,B3,C#3,E3 |   |  |   |  |   |  |  |   |
| O     |               |       |                    |   |  |   |  |   |  |  |   |
| N     |               | O     |                    |   |  |   |  |   |  |  |   |
| N     |               |       |                    | O |  |   |  |   |  |  |   |
| N     |               | O     |                    |   |  |   |  |   |  |  |   |
| O     |               |       |                    |   |  |   |  |   |  |  |   |
| O     |               |       |                    |   |  |   |  |   |  |  |   |
|       |               | -     |                    | - |  | - |  | - |  |  | - |

|       |              |       |                 |   |  |   |  |   |  |  |   |
|-------|--------------|-------|-----------------|---|--|---|--|---|--|--|---|
| A2-20 | 3:4:6:9:9:15 | 2.078 | A2,E2,B3,B3,G#3 |   |  |   |  |   |  |  |   |
| N     |              |       |                 | O |  |   |  |   |  |  |   |
| O     |              |       |                 |   |  |   |  |   |  |  |   |
| N     |              |       |                 | O |  |   |  |   |  |  |   |
| N     |              | O     |                 |   |  |   |  |   |  |  |   |
| O     |              |       |                 |   |  |   |  |   |  |  |   |
| O     |              |       |                 |   |  |   |  |   |  |  |   |
|       |              | -     |                 | - |  | - |  | - |  |  | - |

|       |               |       |                   |   |  |   |  |   |  |   |
|-------|---------------|-------|-------------------|---|--|---|--|---|--|---|
| A2-21 | 3:4:6:9:12:12 | 2.056 | E1,A2,E2,B3,E3,E3 |   |  |   |  |   |  |   |
| O     |               |       |                   |   |  |   |  |   |  |   |
| N     |               |       |                   | O |  |   |  |   |  |   |
| N     |               |       | O                 |   |  |   |  |   |  |   |
| N     | O             |       |                   |   |  |   |  |   |  |   |
| O     |               |       |                   |   |  |   |  |   |  |   |
| O     |               |       |                   |   |  |   |  |   |  |   |
|       |               | -     |                   | - |  | - |  | - |  | - |

|       |              |       |                   |   |  |   |  |   |  |   |
|-------|--------------|-------|-------------------|---|--|---|--|---|--|---|
| A2-22 | 3:4:8:9:9:12 | 2.028 | E1,A2,A3,B3,B3,E3 |   |  |   |  |   |  |   |
| O     |              |       |                   |   |  |   |  |   |  |   |
| O     |              |       |                   |   |  |   |  |   |  |   |
| N     |              |       | O                 |   |  |   |  |   |  |   |
| N     |              |       |                   |   |  | O |  |   |  |   |
| O     |              |       |                   |   |  |   |  |   |  |   |
| O     |              |       |                   |   |  |   |  |   |  |   |
|       |              | -     |                   | - |  | - |  | - |  | - |

|       |               |       |                 |   |  |   |  |   |  |   |
|-------|---------------|-------|-----------------|---|--|---|--|---|--|---|
| A2-23 | 3:4:6:9:12:15 | 2.023 | A2,E2,B3,E3,G#3 |   |  |   |  |   |  |   |
| N     |               |       | O               |   |  |   |  |   |  |   |
| N     |               |       |                 | O |  |   |  |   |  |   |
| N     |               |       | O               |   |  |   |  |   |  |   |
| N     | O             |       |                 |   |  |   |  |   |  |   |
| O     |               |       |                 |   |  |   |  |   |  |   |
| O     |               |       |                 |   |  |   |  |   |  |   |
|       |               | -     |                 | - |  | - |  | - |  | - |

|       |               |       |                    |   |   |   |  |   |  |   |
|-------|---------------|-------|--------------------|---|---|---|--|---|--|---|
| A2-24 | 3:4:8:10:9:12 | 2.006 | E1,A2,A3,C#3,B3,E3 |   |   |   |  |   |  |   |
| O     |               |       |                    |   |   |   |  |   |  |   |
| O     |               |       |                    |   |   |   |  |   |  |   |
| N     |               |       |                    |   | O |   |  |   |  |   |
| N     |               |       |                    |   |   | O |  |   |  |   |
| O     |               |       |                    |   |   |   |  |   |  |   |
| O     |               |       |                    |   |   |   |  |   |  |   |
|       |               | -     |                    | - |   | - |  | - |  | - |

|       |         |       |              |   |  |   |   |   |   |   |
|-------|---------|-------|--------------|---|--|---|---|---|---|---|
| A2-25 | 2:5:6:8 | 1.983 | A2,C#3,E3,A4 |   |  |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |
| N     |         |       |              |   |  |   |   | O |   |   |
| N     |         |       |              |   |  |   | O |   |   |   |
| N     |         |       |              |   |  |   |   |   | O |   |
| O     |         |       |              |   |  |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |
|       |         | -     |              | - |  | - |   | - |   | - |

|       |               |       |                    |   |  |   |  |   |  |   |  |
|-------|---------------|-------|--------------------|---|--|---|--|---|--|---|--|
| A2-26 | 3:4:9:10:9:12 | 1.978 | E1,A2,B3,C#3,B3,E3 |   |  |   |  |   |  |   |  |
| O     |               |       |                    |   |  |   |  |   |  |   |  |
| O     |               |       |                    |   |  |   |  |   |  |   |  |
| N     |               |       |                    |   |  | O |  |   |  |   |  |
| N     |               |       |                    |   |  |   |  | O |  |   |  |
| O     |               |       |                    |   |  |   |  |   |  |   |  |
| O     |               |       |                    |   |  |   |  |   |  |   |  |
|       |               | -     |                    | - |  | - |  | - |  | - |  |

|       |               |       |                   |   |  |   |  |   |  |   |  |
|-------|---------------|-------|-------------------|---|--|---|--|---|--|---|--|
| A2-27 | 3:4:8:12:9:12 | 1.972 | E1,A2,A3,E3,B3,E3 |   |  |   |  |   |  |   |  |
| O     |               |       |                   |   |  |   |  |   |  |   |  |
| O     |               |       |                   |   |  |   |  |   |  |   |  |
| N     |               |       |                   |   |  |   |  | O |  |   |  |
| N     |               |       |                   |   |  | O |  |   |  |   |  |
| O     |               |       |                   |   |  |   |  |   |  |   |  |
| O     |               |       |                   |   |  |   |  |   |  |   |  |
|       |               | -     |                   | - |  | - |  | - |  | - |  |

|       |               |       |                   |   |  |   |  |   |  |   |  |
|-------|---------------|-------|-------------------|---|--|---|--|---|--|---|--|
| A2-28 | 3:4:8:9:12:12 | 1.972 | E1,A2,A3,B3,E3,E3 |   |  |   |  |   |  |   |  |
| O     |               |       |                   |   |  |   |  |   |  |   |  |
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| A2-29 | 3:4:6:8:10 | 1.95 | E1,A2,E2,A3,C#3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------|------------|------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

|       |                |      |                    |   |   |   |   |   |  |   |  |
|-------|----------------|------|--------------------|---|---|---|---|---|--|---|--|
| A2-30 | 3:4:8:10:12:12 | 1.95 | E1,A2,A3,C#3,E3,E3 |   |   |   |   |   |  |   |  |
| O     |                |      |                    |   |   |   |   |   |  |   |  |
| N     |                |      |                    |   | O |   |   |   |  |   |  |
| N     |                |      |                    |   |   | O |   |   |  |   |  |
| N     |                |      |                    |   |   |   | O |   |  |   |  |
| O     |                |      |                    |   |   |   |   |   |  |   |  |
| O     |                |      |                    |   |   |   |   |   |  |   |  |
|       |                | -    |                    | - |   | - |   | - |  | - |  |

|       |               |       |                   |
|-------|---------------|-------|-------------------|
| A2-31 | 3:4:9:12:9:12 | 1.944 | E1,A2,B3,E3,B3,E3 |
| O     |               |       |                   |
| O     |               |       |                   |
| N     |               |       | O                 |
| N     |               |       | O                 |
| O     |               |       |                   |
| O     |               |       |                   |
|       | -             | -     | -                 |

|       |            |       |                 |
|-------|------------|-------|-----------------|
| A2-32 | 3:4:6:9:10 | 1.922 | E1,A2,E2,B3,C#3 |
| X     |            |       |                 |
| N     | O          |       |                 |
| N     |            | O     |                 |
| N     | O          |       |                 |
| O     |            |       |                 |
| O     |            |       |                 |
|       | -          | -     | -               |

|       |                |       |                    |
|-------|----------------|-------|--------------------|
| A2-33 | 3:4:10:12:9:12 | 1.922 | E1,A2,C#3,E3,B3,E3 |
| O     |                |       |                    |
| O     |                |       |                    |
| N     |                |       | O                  |
| N     |                |       | O                  |
| O     |                |       |                    |
| O     |                |       |                    |
|       | -              | -     | -                  |

|       |            |       |                |
|-------|------------|-------|----------------|
| A2-34 | 3:4:6:8:12 | 1.917 | E1,A2,E2,A3,E3 |
| X     |            |       |                |
| N     |            | O     |                |
| N     | O          |       |                |
| N     | O          |       |                |
| O     |            |       |                |
| O     |            |       |                |
|       | -          | -     | -              |

|       |                |       |                  |
|-------|----------------|-------|------------------|
| A2-35 | 3:4:9:10:15:12 | 1.889 | A2,B3,C#3,G#3,E3 |
| O     |                |       |                  |
| N     |                |       | O                |
| N     |                | O     |                  |
| N     |                |       | O                |
| O     |                |       |                  |
| O     |                |       |                  |
|       | -              | -     | -                |



|       |  |              |  |       |  |                   |   |  |  |  |  |  |
|-------|--|--------------|--|-------|--|-------------------|---|--|--|--|--|--|
| A2-36 |  | 4:4:8:9:9:12 |  | 1.861 |  | A2,A2,A3,B3,B3,E3 |   |  |  |  |  |  |
| O     |  |              |  |       |  |                   |   |  |  |  |  |  |
| O     |  |              |  |       |  |                   |   |  |  |  |  |  |
| N     |  |              |  | O     |  |                   | O |  |  |  |  |  |
| N     |  |              |  |       |  |                   |   |  |  |  |  |  |
| O     |  |              |  |       |  |                   |   |  |  |  |  |  |
| N     |  |              |  | O     |  |                   |   |  |  |  |  |  |

|       |              |       |                    |
|-------|--------------|-------|--------------------|
| A2-37 | 4:5:6:9:9:12 | 1.844 | A2,C#2,E2,B3,B3,E3 |
| O     |              |       |                    |
| O     |              |       |                    |
| N     |              | O     |                    |
| N     | O            |       |                    |
| N     |              | O     |                    |
| N     |              | O     |                    |

|       |               |       |                    |
|-------|---------------|-------|--------------------|
| A2-38 | 4:4:8:10:9:12 | 1.839 | A2,A2,A3,C#3,B3,E3 |
| O     |               |       |                    |
| O     |               |       |                    |
| N     |               | O     |                    |
| N     |               |       | O                  |
| O     |               |       |                    |
| N     |               | O     |                    |

|       |               |       |                     |
|-------|---------------|-------|---------------------|
| A2-39 | 4:5:6:8:10:16 | 1.808 | A2,C#2,E2,A3,C#3,A4 |
| N     |               | O     |                     |
| N     | O             |       |                     |
| N     | O             |       |                     |
| N     | O             |       |                     |
| N     |               | O     |                     |
| N     |               | O     |                     |

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|       |               |       |                   |
|-------|---------------|-------|-------------------|
| A2-41 | 4:4:8:9:12:12 | 1.806 | A2,A2,A3,B3,E3,E3 |
| O     |               |       |                   |
| N     |               | O     |                   |
| N     | O             |       |                   |
| N     |               | O     |                   |
| O     |               |       |                   |
| N     | O             |       |                   |
|       | -             | -     | -                 |

|       |             |       |                 |
|-------|-------------|-------|-----------------|
| A2-42 | 3:4:8:10:12 | 1.783 | E1,A2,A3,C#3,E3 |
| X     |             |       |                 |
| N     |             | O     |                 |
| N     |             | O     |                 |
| N     |             | O     |                 |
| O     |             |       |                 |
| O     |             |       |                 |
|       | -           | -     | -               |

|       |               |       |                     |
|-------|---------------|-------|---------------------|
| A2-43 | 4:5:8:10:9:12 | 1.739 | A2,C#2,A3,C#3,B3,E3 |
| O     |               |       |                     |
| O     |               |       |                     |
| N     |               | O     |                     |
| N     |               | O     |                     |
| N     | O             |       |                     |
| N     | O             |       |                     |
|       | -             | -     | -                   |

|       |              |       |                   |
|-------|--------------|-------|-------------------|
| A2-44 | 4:6:8:9:9:12 | 1.694 | A2,E2,A3,B3,B3,E3 |
| O     |              |       |                   |
| O     |              |       |                   |
| N     | O            |       |                   |
| N     |              | O     |                   |
| N     |              | O     |                   |
| N     | O            |       |                   |
|       | -            | -     | -                 |

|       |            |       |                  |
|-------|------------|-------|------------------|
| A2-45 | 4:5:6:8:10 | 1.683 | A2,C#2,E2,A3,C#3 |
| X     |            |       |                  |
| N     | O          |       |                  |
| N     | O          |       |                  |
| N     | O          |       |                  |
| N     |            | O     |                  |
| N     |            | O     |                  |
|       | -          | -     | -                |

|       |  |            |  |       |  |                 |  |   |  |   |  |  |  |  |  |  |  |  |
|-------|--|------------|--|-------|--|-----------------|--|---|--|---|--|--|--|--|--|--|--|--|
| A2-46 |  | 4:4:8:10:9 |  | 1.672 |  | A2,A2,A3,C#3,B3 |  |   |  |   |  |  |  |  |  |  |  |  |
| X     |  |            |  |       |  |                 |  |   |  |   |  |  |  |  |  |  |  |  |
| O     |  |            |  |       |  |                 |  |   |  |   |  |  |  |  |  |  |  |  |
| N     |  |            |  |       |  |                 |  | O |  |   |  |  |  |  |  |  |  |  |
| N     |  |            |  |       |  |                 |  |   |  | O |  |  |  |  |  |  |  |  |
| O     |  |            |  |       |  |                 |  |   |  |   |  |  |  |  |  |  |  |  |
| N     |  |            |  |       |  | O               |  |   |  |   |  |  |  |  |  |  |  |  |

|       |               |       |                    |
|-------|---------------|-------|--------------------|
| A2-47 | 4:6:8:10:9:12 | 1.672 | A2,E2,A3,C#3,B3,E3 |
| O     |               |       |                    |
| O     |               |       |                    |
| N     |               | O     |                    |
| N     |               |       | O                  |
| N     |               |       | O                  |
| N     | O             |       |                    |

| A2-48 | 4:5:6:8 | 1.483 | A2,C#2,E2,A3 |  |  |  |  |  |  |
|-------|---------|-------|--------------|--|--|--|--|--|--|
| X     |         |       |              |  |  |  |  |  |  |
| X     |         |       |              |  |  |  |  |  |  |
| N     | O       |       |              |  |  |  |  |  |  |
| N     | O       |       |              |  |  |  |  |  |  |
| N     |         | O     |              |  |  |  |  |  |  |
| N     |         |       | O            |  |  |  |  |  |  |

|       |         |       |             |   |  |  |  |  |
|-------|---------|-------|-------------|---|--|--|--|--|
| A2-49 | 4:4:8:9 | 1.472 | A2,A2,A3,B3 |   |  |  |  |  |
| X     |         |       |             |   |  |  |  |  |
| X     |         |       |             |   |  |  |  |  |
| N     |         | O     |             |   |  |  |  |  |
| N     |         |       |             | O |  |  |  |  |
| O     |         |       |             |   |  |  |  |  |
| N     |         |       | O           |   |  |  |  |  |

|       |         |       |              |  |  |  |  |  |  |
|-------|---------|-------|--------------|--|--|--|--|--|--|
| A2-50 | 4:5:6:9 | 1.456 | A2,C#2,E2,B3 |  |  |  |  |  |  |
| X     |         |       |              |  |  |  |  |  |  |
| X     |         |       |              |  |  |  |  |  |  |
| N     |         | O     |              |  |  |  |  |  |  |
| N     | O       |       |              |  |  |  |  |  |  |
| N     |         | O     |              |  |  |  |  |  |  |
| N     |         |       | O            |  |  |  |  |  |  |

|       |             |       |                  |   |  |   |  |   |  |  |   |
|-------|-------------|-------|------------------|---|--|---|--|---|--|--|---|
| A2-51 | 4:6:9:10:15 | 1.389 | A2,E2,B3,C#3,G#3 |   |  |   |  |   |  |  |   |
| N     |             |       | O                |   |  |   |  |   |  |  |   |
| N     | O           |       | O                |   |  |   |  |   |  |  |   |
| N     |             |       | O                |   |  |   |  |   |  |  |   |
| N     | O           |       |                  |   |  |   |  |   |  |  |   |
| O     |             |       |                  |   |  |   |  |   |  |  |   |
| X     |             |       |                  |   |  |   |  |   |  |  |   |
|       |             | -     |                  | - |  | - |  | - |  |  | - |

|       |         |       |              |   |  |   |  |   |  |  |   |
|-------|---------|-------|--------------|---|--|---|--|---|--|--|---|
| A2-52 | 4:5:8:9 | 1.372 | A2,C#2,A3,B3 |   |  |   |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
| N     |         |       | O            |   |  |   |  |   |  |  |   |
| N     |         |       | O            |   |  | O |  |   |  |  |   |
| N     |         |       | O            |   |  |   |  |   |  |  |   |
| N     |         |       |              | O |  |   |  |   |  |  |   |
|       |         | -     |              | - |  | - |  | - |  |  | - |

|       |             |       |                 |   |  |   |  |   |  |  |   |
|-------|-------------|-------|-----------------|---|--|---|--|---|--|--|---|
| A2-53 | 4:6:9:12:15 | 1.356 | A2,E2,B3,E3,G#3 |   |  |   |  |   |  |  |   |
| N     |             |       | O               |   |  |   |  |   |  |  |   |
| N     |             |       |                 | O |  |   |  |   |  |  |   |
| N     |             |       | O               |   |  |   |  |   |  |  |   |
| N     | O           |       |                 |   |  |   |  |   |  |  |   |
| O     |             |       |                 |   |  |   |  |   |  |  |   |
| X     |             |       |                 |   |  |   |  |   |  |  |   |
|       |             | -     |                 | - |  | - |  | - |  |  | - |

|       |          |      |               |   |   |   |  |   |  |  |   |
|-------|----------|------|---------------|---|---|---|--|---|--|--|---|
| A2-54 | 4:5:8:10 | 1.35 | A2,C#2,A3,C#3 |   |   |   |  |   |  |  |   |
| X     |          |      |               |   |   |   |  |   |  |  |   |
| X     |          |      |               |   |   |   |  |   |  |  |   |
| N     |          |      |               |   | O |   |  |   |  |  |   |
| N     |          |      |               |   |   | O |  |   |  |  |   |
| N     |          |      | O             |   |   |   |  |   |  |  |   |
| N     |          |      |               | O |   |   |  |   |  |  |   |
|       |          | -    |               | - |   | - |  | - |  |  | - |

|       |          |       |               |   |   |   |  |   |  |  |   |
|-------|----------|-------|---------------|---|---|---|--|---|--|--|---|
| A2-55 | 5:4:9:10 | 1.322 | C#2,A2,B3,C#3 |   |   |   |  |   |  |  |   |
| X     |          |       |               |   |   |   |  |   |  |  |   |
| X     |          |       |               |   |   |   |  |   |  |  |   |
| N     |          |       |               |   | O |   |  |   |  |  |   |
| N     |          |       |               |   |   |   |  | O |  |  |   |
| O     |          |       |               |   |   |   |  |   |  |  |   |
| N     |          |       |               |   |   |   |  | O |  |  |   |
|       |          | -     |               | - |   | - |  | - |  |  | - |

|       |          |       |              |   |  |   |   |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|---|---|--|--|---|
| A2-56 | 5:4:8:12 | 1.316 | C#2,A2,A3,E3 |   |  |   |   |   |  |  |   |
| X     |          |       |              |   |  |   |   |   |  |  |   |
| X     |          |       |              |   |  |   |   |   |  |  |   |
| N     |          |       |              |   |  |   |   | O |  |  |   |
| N     |          |       |              |   |  |   | O |   |  |  |   |
| O     |          |       |              |   |  |   |   |   |  |  |   |
| N     |          |       |              |   |  |   |   | O |  |  |   |
|       |          | -     |              | - |  | - |   | - |  |  | - |

|       |             |       |                |   |  |   |  |   |  |  |   |
|-------|-------------|-------|----------------|---|--|---|--|---|--|--|---|
| A2-57 | 4:8:9:12:12 | 1.306 | A2,A3,B3,E3,E3 |   |  |   |  |   |  |  |   |
| O     |             |       |                |   |  |   |  |   |  |  |   |
| N     |             |       |                | O |  |   |  |   |  |  |   |
| N     |             |       | O              |   |  |   |  |   |  |  |   |
| N     |             |       |                |   |  | O |  |   |  |  |   |
| O     |             |       |                |   |  |   |  |   |  |  |   |
| X     |             |       |                |   |  |   |  |   |  |  |   |
|       |             | -     |                | - |  | - |  | - |  |  | - |

|       |             |       |                |   |  |   |   |   |  |  |   |
|-------|-------------|-------|----------------|---|--|---|---|---|--|--|---|
| A2-58 | 4:8:12:9:12 | 1.306 | A2,A3,E3,B3,E3 |   |  |   |   |   |  |  |   |
| O     |             |       |                |   |  |   |   |   |  |  |   |
| O     |             |       |                |   |  |   |   |   |  |  |   |
| N     |             |       |                |   |  |   |   | O |  |  |   |
| N     |             |       |                |   |  |   | O |   |  |  |   |
| O     |             |       |                |   |  |   |   |   |  |  |   |
| X     |             |       |                |   |  |   |   |   |  |  |   |
|       |             | -     |                | - |  | - |   | - |  |  | - |

|       |         |       |             |   |  |   |  |   |  |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|--|---|
| A2-59 | 4:6:8:9 | 1.306 | A2,E2,A3,B3 |   |  |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |   |  |  |   |
| N     |         |       | O           |   |  |   |  |   |  |  |   |
| N     |         |       |             |   |  | O |  |   |  |  |   |
| N     |         |       |             |   |  | O |  |   |  |  |   |
| N     |         |       |             | O |  |   |  |   |  |  |   |
|       |         | -     |             | - |  | - |  | - |  |  | - |

|       |          |       |              |   |  |   |  |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|--|---|--|--|---|
| A2-60 | 5:4:9:12 | 1.289 | C#2,A2,B3,E3 |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
| N     |          |       |              |   |  |   |  | O |  |  |   |
| N     |          |       |              |   |  |   |  | O |  |  |   |
| O     |          |       |              |   |  |   |  |   |  |  |   |
| N     |          |       |              |   |  |   |  | O |  |  |   |
|       |          | -     |              | - |  | - |  | - |  |  | - |

|       |           |       |               |   |  |   |  |   |  |   |   |
|-------|-----------|-------|---------------|---|--|---|--|---|--|---|---|
| A2-61 | 5:4:10:12 | 1.267 | C#2,A2,C#3,E3 |   |  |   |  |   |  |   |   |
| X     |           |       |               |   |  |   |  |   |  |   |   |
| X     |           |       |               |   |  |   |  |   |  |   |   |
| N     |           |       |               |   |  |   |  | O |  |   |   |
| N     |           |       |               |   |  |   |  |   |  | O |   |
| O     |           |       |               |   |  |   |  |   |  |   |   |
| N     |           |       |               |   |  |   |  | O |  |   |   |
|       |           | -     |               | - |  | - |  | - |  |   | - |

|       |          |       |              |   |  |   |  |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|--|---|--|--|---|
| A2-62 | 4:6:9:10 | 1.256 | A2,E2,B3,C#3 |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
| N     | O        |       |              |   |  |   |  |   |  |  |   |
| N     |          |       | O            |   |  |   |  |   |  |  |   |
| N     | O        |       |              |   |  |   |  |   |  |  |   |
| O     |          |       |              |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
|       |          | -     |              | - |  | - |  | - |  |  | - |

|       |          |       |             |   |  |   |  |   |  |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|--|---|
| A2-63 | 4:6:9:12 | 1.222 | A2,E2,B3,E3 |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
| N     |          |       | O           |   |  |   |  |   |  |  |   |
| N     |          |       | O           |   |  |   |  |   |  |  |   |
| N     | O        |       |             |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
|       |          | -     |             | - |  | - |  | - |  |  | - |

|       |              |       |                 |   |  |   |  |   |  |  |   |
|-------|--------------|-------|-----------------|---|--|---|--|---|--|--|---|
| A2-64 | 4:9:12:15:12 | 1.189 | A2,B3,E3,G#3,E3 |   |  |   |  |   |  |  |   |
| O     |              |       |                 |   |  |   |  |   |  |  |   |
| N     |              |       |                 |   |  |   |  | O |  |  |   |
| N     |              |       |                 |   |  |   |  | O |  |  |   |
| N     |              |       |                 |   |  |   |  | O |  |  |   |
| O     |              |       |                 |   |  |   |  |   |  |  |   |
| X     |              |       |                 |   |  |   |  |   |  |  |   |
|       |              | -     |                 | - |  | - |  | - |  |  | - |

|       |               |       |                  |   |  |   |  |   |  |   |   |
|-------|---------------|-------|------------------|---|--|---|--|---|--|---|---|
| A2-65 | 4:10:12:15:12 | 1.167 | A2,C#3,E3,G#3,E3 |   |  |   |  |   |  |   |   |
| O     |               |       |                  |   |  |   |  |   |  |   |   |
| N     |               |       |                  |   |  |   |  | O |  |   |   |
| N     |               |       |                  |   |  |   |  | O |  |   |   |
| N     |               |       |                  |   |  |   |  |   |  | O |   |
| O     |               |       |                  |   |  |   |  |   |  |   |   |
| X     |               |       |                  |   |  |   |  |   |  |   |   |
|       |               | -     |                  | - |  | - |  | - |  |   | - |

| A2-66 | 4:5:8 | 1.15 | A2,C#2,A3 |  |  |   |  |  |  |
|-------|-------|------|-----------|--|--|---|--|--|--|
| X     |       |      |           |  |  |   |  |  |  |
| X     |       |      |           |  |  |   |  |  |  |
| X     |       |      |           |  |  |   |  |  |  |
| N     |       |      |           |  |  | O |  |  |  |
| N     |       |      | O         |  |  |   |  |  |  |
| N     |       |      | O         |  |  |   |  |  |  |

|       |           |       |               |   |   |  |  |
|-------|-----------|-------|---------------|---|---|--|--|
| A2-67 | 4:9:10:15 | 1.056 | A2,B3,C#3,G#3 |   |   |  |  |
| X     |           |       |               |   |   |  |  |
| N     |           |       |               |   | O |  |  |
| N     |           |       |               | O |   |  |  |
| N     |           |       |               |   | O |  |  |
| O     |           |       |               |   |   |  |  |
| X     |           |       |               |   |   |  |  |

|       |                 |       |                   |
|-------|-----------------|-------|-------------------|
| A2-68 | 9:8:18:24:18:24 | 0.861 | B2,A2,B3,E3,B3,E3 |
| O     |                 |       |                   |
| O     |                 |       |                   |
| N     |                 |       | O                 |
| N     |                 |       | O                 |
| O     |                 |       |                   |
| N     |                 | O     |                   |

|       |                 |       |                    |
|-------|-----------------|-------|--------------------|
| A2-69 | 9:8:18:24:30:24 | 0.817 | B2,A2,B3,E3,G#3,E3 |
| O     |                 |       |                    |
| N     |                 |       | O                  |
| N     |                 |       | O                  |
| N     |                 |       | O                  |
| O     |                 |       |                    |
| N     |                 | O     |                    |

[illegible]

There are no lush chords on A#2.  
 This chord is not lush, it is not strongly rooted and  
 has an overall strength less than 0.75.  
 20/7 is close to 17/6.

| A#2-1 | 7:10:14:20 | 0.729 | A#2,E2,A#3,E3 |   |   |   |
|-------|------------|-------|---------------|---|---|---|
| X     |            |       |               |   |   |   |
| X     |            |       |               |   |   |   |
| N     |            |       |               |   |   |   |
| N     |            |       |               |   | O |   |
| N     |            |       |               |   | O |   |
| N     |            |       |               |   | O |   |
| N     |            |       |               |   | O |   |
|       | -          | -     | -             | - | - | - |



|      |             |       |                     |   |   |   |   |   |   |   |
|------|-------------|-------|---------------------|---|---|---|---|---|---|---|
| B2-1 | 2:3:4:5:4:8 | 3.317 | B2,F#2,B3,D#3,B3,B4 |   |   |   |   |   |   |   |
| N    |             |       | O                   |   |   |   |   |   |   |   |
| O    |             |       |                     |   |   |   |   |   |   |   |
| N    |             |       |                     |   |   | O |   |   |   |   |
| N    |             |       |                     |   |   |   | O |   |   |   |
| N    |             |       |                     |   |   |   | O |   |   |   |
| N    |             |       | O                   |   |   |   |   |   |   |   |
|      |             | -     | -                   | - | - | - | - | - | - | - |

|      |             |      |                      |   |   |   |   |   |   |   |
|------|-------------|------|----------------------|---|---|---|---|---|---|---|
| B2-2 | 2:3:4:5:6:8 | 3.15 | B2,F#2,B3,D#3,F#3,B4 |   |   |   |   |   |   |   |
| N    |             |      | O                    |   |   |   |   |   |   |   |
| N    |             |      | O                    |   |   |   |   |   |   |   |
| N    |             |      |                      |   |   | O |   |   |   |   |
| N    |             |      |                      |   |   |   | O |   |   |   |
| N    |             |      |                      |   |   |   | O |   |   |   |
| N    |             |      | O                    |   |   |   |   |   |   |   |
|      |             | -    | -                    | - | - | - | - | - | - | - |

|      |           |       |                  |   |   |   |   |   |   |   |
|------|-----------|-------|------------------|---|---|---|---|---|---|---|
| B2-3 | 2:3:4:5:4 | 3.067 | B2,F#2,B3,D#3,B3 |   |   |   |   |   |   |   |
| X    |           |       |                  |   |   |   |   |   |   |   |
| O    |           |       |                  |   |   |   |   |   |   |   |
| N    |           |       |                  |   |   | O |   |   |   |   |
| N    |           |       |                  |   |   |   | O |   |   |   |
| N    |           |       |                  |   |   |   | O |   |   |   |
| N    |           |       | O                |   |   |   |   |   |   |   |
|      |           | -     | -                | - | - | - | - | - | - | - |

|      |           |     |                  |   |   |   |   |   |   |   |
|------|-----------|-----|------------------|---|---|---|---|---|---|---|
| B2-4 | 2:3:4:4:6 | 3.0 | B2,F#2,B3,B3,F#3 |   |   |   |   |   |   |   |
| N    | O         |     |                  |   |   |   |   |   |   |   |
| O    |           |     |                  |   |   |   |   |   |   |   |
| N    |           |     | O                |   |   |   |   |   |   |   |
| N    |           |     | O                |   |   |   |   |   |   |   |
| N    | O         |     |                  |   |   |   |   |   |   |   |
| X    |           |     |                  |   |   |   |   |   |   |   |
|      |           | -   | -                | - | - | - | - | - | - | - |

|      |           |     |                   |   |   |   |   |   |   |   |
|------|-----------|-----|-------------------|---|---|---|---|---|---|---|
| B2-5 | 2:3:4:5:6 | 2.9 | B2,F#2,B3,D#3,F#3 |   |   |   |   |   |   |   |
| N    | O         |     |                   |   |   |   |   |   |   |   |
| N    |           |     | O                 |   |   |   |   |   |   |   |
| N    |           |     | O                 |   |   |   |   |   |   |   |
| N    |           |     | O                 |   |   |   |   |   |   |   |
| N    | O         |     |                   |   |   |   |   |   |   |   |
| X    |           |     |                   |   |   |   |   |   |   |   |
|      |           | -   | -                 | - | - | - | - | - | - | - |

| B2-6 | 2:3:4:5:6 | 2.9 | B2,F#2,B3,D#3,F#3 |   |  |   |   |   |   |   |
|------|-----------|-----|-------------------|---|--|---|---|---|---|---|
| X    |           |     |                   |   |  |   |   |   |   |   |
| N    |           |     |                   |   |  |   | O |   |   |   |
| N    |           |     |                   |   |  |   |   | O |   |   |
| N    |           |     |                   |   |  |   |   |   | O |   |
| N    |           |     |                   |   |  |   |   |   | O |   |
| N    |           |     |                   |   |  |   | O |   |   |   |
|      |           | -   |                   | - |  | - |   | - |   | - |

| B2-7 | 2:3:4:4 | B2 | 2.667 | B2,F#2,B3,B3 |  |   |  |   |  |   |
|------|---------|----|-------|--------------|--|---|--|---|--|---|
| X    |         |    |       |              |  |   |  |   |  |   |
| O    |         |    |       |              |  |   |  |   |  |   |
| N    |         |    | O     |              |  |   |  |   |  |   |
| N    |         |    | O     |              |  |   |  |   |  |   |
| N    | O       |    |       |              |  |   |  |   |  |   |
| X    |         |    |       |              |  |   |  |   |  |   |
|      |         | -  |       | -            |  | - |  | - |  | - |

| B2-8 | 2:3:4:5 | 2.567 | B2,F#2,B3,D#3 |   |  |   |  |   |  |   |
|------|---------|-------|---------------|---|--|---|--|---|--|---|
| X    |         |       |               |   |  |   |  |   |  |   |
| N    |         |       | O             |   |  |   |  |   |  |   |
| N    |         |       | O             |   |  |   |  |   |  |   |
| N    |         |       | O             |   |  |   |  |   |  |   |
| N    | O       |       |               |   |  |   |  |   |  |   |
| X    |         |       |               |   |  |   |  |   |  |   |
|      |         | -     |               | - |  | - |  | - |  | - |

| B2-9 | 2:3:4:5 | 2.567 | B2,F#2,B3,D#3 |   |  |   |   |   |  |   |
|------|---------|-------|---------------|---|--|---|---|---|--|---|
| X    |         |       |               |   |  |   |   |   |  |   |
| X    |         |       |               |   |  |   |   |   |  |   |
| N    |         |       |               |   |  |   | O |   |  |   |
| N    |         |       |               |   |  |   |   | O |  |   |
| N    |         |       |               |   |  |   |   | O |  |   |
| N    |         |       |               |   |  | O |   |   |  |   |
|      |         | -     |               | - |  | - |   | - |  | - |

| B2-10 | 3:4:6:8:8:12 | 2.167 | F#1,B2,F#2,B3,B3,F#3 |   |  |   |  |   |  |   |
|-------|--------------|-------|----------------------|---|--|---|--|---|--|---|
| N     | O            |       |                      |   |  |   |  |   |  |   |
| O     |              |       |                      |   |  |   |  |   |  |   |
| N     |              |       | O                    |   |  |   |  |   |  |   |
| N     |              |       | O                    |   |  |   |  |   |  |   |
| N     | O            |       |                      |   |  |   |  |   |  |   |
| N     | O            |       |                      |   |  |   |  |   |  |   |
|       |              | -     |                      | - |  | - |  | - |  | - |

|       |               |       |                       |
|-------|---------------|-------|-----------------------|
| B2-11 | 3:4:6:8:10:12 | 2.117 | F#1,B2,F#2,B3,D#3,F#3 |
| N     | O             |       |                       |
| N     |               | O     |                       |
| N     |               | O     |                       |
| N     |               | O     |                       |
| N     | O             |       |                       |
| N     | O             |       |                       |
|       |               |       |                       |
|       |               |       |                       |
|       |               |       |                       |
|       |               |       |                       |
|       |               |       |                       |

|       |           |       |                  |
|-------|-----------|-------|------------------|
| B2-12 | 3:4:5:8:8 | 2.067 | F#1,B2,D#2,B3,B3 |
| X     |           |       |                  |
| O     |           |       |                  |
| N     |           | O     |                  |
| N     | O         |       |                  |
| N     |           | O     |                  |
| N     | O         |       |                  |
|       |           |       |                  |
|       |           |       |                  |
|       |           |       |                  |
|       |           |       |                  |
|       |           |       |                  |

|       |            |       |                   |
|-------|------------|-------|-------------------|
| B2-13 | 3:4:5:8:10 | 2.017 | F#1,B2,D#2,B3,D#3 |
| X     |            |       |                   |
| N     |            | O     |                   |
| N     |            | O     |                   |
| N     | O          |       |                   |
| N     |            | O     |                   |
| N     | O          |       |                   |
|       |            |       |                   |
|       |            |       |                   |
|       |            |       |                   |
|       |            |       |                   |
|       |            |       |                   |

|       |           |     |                  |
|-------|-----------|-----|------------------|
| B2-14 | 3:4:6:8:8 | 2.0 | F#1,B2,F#2,B3,B3 |
| X     |           |     |                  |
| O     |           |     |                  |
| N     |           | O   |                  |
| N     |           | O   |                  |
| N     | O         |     |                  |
| N     | O         |     |                  |
|       |           |     |                  |
|       |           |     |                  |
|       |           |     |                  |
|       |           |     |                  |
|       |           |     |                  |

|       |            |      |                   |
|-------|------------|------|-------------------|
| B2-15 | 3:4:6:8:10 | 1.95 | F#1,B2,F#2,B3,D#3 |
| X     |            |      |                   |
| N     |            | O    |                   |
| N     |            | O    |                   |
| N     |            | O    |                   |
| N     | O          |      |                   |
| N     | O          |      |                   |
|       |            |      |                   |
|       |            |      |                   |
|       |            |      |                   |
|       |            |      |                   |
|       |            |      |                   |

|       |         |       |               |  |  |  |  |  |  |  |  |
|-------|---------|-------|---------------|--|--|--|--|--|--|--|--|
| B2-16 | 3:4:5:8 | 1.817 | F#1,B2,D#2,B3 |  |  |  |  |  |  |  |  |
| X     |         |       |               |  |  |  |  |  |  |  |  |
| X     |         |       |               |  |  |  |  |  |  |  |  |
| N     |         |       | O             |  |  |  |  |  |  |  |  |
| N     | O       |       |               |  |  |  |  |  |  |  |  |
| N     |         | O     |               |  |  |  |  |  |  |  |  |
| N     |         | O     |               |  |  |  |  |  |  |  |  |
|       |         |       |               |  |  |  |  |  |  |  |  |

|       |               |       |                      |  |   |   |  |  |  |  |  |
|-------|---------------|-------|----------------------|--|---|---|--|--|--|--|--|
| B2-17 | 4:5:6:8:10:16 | 1.808 | B2,D#2,F#2,B3,D#3,B4 |  |   |   |  |  |  |  |  |
| N     |               |       |                      |  |   | O |  |  |  |  |  |
| N     |               |       | O                    |  |   |   |  |  |  |  |  |
| N     |               |       | O                    |  |   |   |  |  |  |  |  |
| N     |               |       | O                    |  |   |   |  |  |  |  |  |
| N     |               |       |                      |  | O |   |  |  |  |  |  |
| N     |               |       |                      |  |   | O |  |  |  |  |  |
|       |               |       |                      |  |   |   |  |  |  |  |  |

|       |         |      |               |  |  |  |  |  |  |  |  |
|-------|---------|------|---------------|--|--|--|--|--|--|--|--|
| B2-18 | 3:4:6:8 | 1.75 | F#1,B2,F#2,B3 |  |  |  |  |  |  |  |  |
| X     |         |      |               |  |  |  |  |  |  |  |  |
| X     |         |      |               |  |  |  |  |  |  |  |  |
| N     |         |      | O             |  |  |  |  |  |  |  |  |
| N     |         |      | O             |  |  |  |  |  |  |  |  |
| N     | O       |      |               |  |  |  |  |  |  |  |  |
| N     | O       |      |               |  |  |  |  |  |  |  |  |
|       |         |      |               |  |  |  |  |  |  |  |  |

|       |            |       |                   |  |   |   |  |  |  |  |  |
|-------|------------|-------|-------------------|--|---|---|--|--|--|--|--|
| B2-19 | 4:5:6:8:10 | 1.683 | B2,D#2,F#2,B3,D#3 |  |   |   |  |  |  |  |  |
| X     |            |       |                   |  |   |   |  |  |  |  |  |
| N     |            |       | O                 |  |   |   |  |  |  |  |  |
| N     |            |       | O                 |  |   |   |  |  |  |  |  |
| N     |            |       | O                 |  |   |   |  |  |  |  |  |
| N     |            |       |                   |  | O |   |  |  |  |  |  |
| N     |            |       |                   |  |   | O |  |  |  |  |  |
|       |            |       |                   |  |   |   |  |  |  |  |  |

|       |            |      |                   |  |   |   |  |  |  |  |  |
|-------|------------|------|-------------------|--|---|---|--|--|--|--|--|
| B2-20 | 4:5:6:8:12 | 1.65 | B2,D#2,F#2,B3,F#3 |  |   |   |  |  |  |  |  |
| X     |            |      |                   |  |   |   |  |  |  |  |  |
| N     |            |      |                   |  |   | O |  |  |  |  |  |
| N     |            |      | O                 |  |   |   |  |  |  |  |  |
| N     |            |      | O                 |  |   |   |  |  |  |  |  |
| N     |            |      |                   |  | O |   |  |  |  |  |  |
| N     |            |      |                   |  |   | O |  |  |  |  |  |
|       |            |      |                   |  |   |   |  |  |  |  |  |

|   | B2-21 | 4:5:8:10:8 | 1.6 | B2,D#2,B3,D#3,B3 |   |   |   |  |
|---|-------|------------|-----|------------------|---|---|---|--|
| X |       |            |     |                  |   |   |   |  |
| O |       |            |     |                  |   |   |   |  |
| N |       |            |     |                  |   | O |   |  |
| N |       |            |     |                  |   |   | O |  |
| N |       |            |     | O                |   |   |   |  |
| N |       |            |     |                  | O |   |   |  |

|       |         |       |               |   |  |  |  |
|-------|---------|-------|---------------|---|--|--|--|
| B2-22 | 4:5:6:8 | 1.483 | B2,D#2,F#2,B3 |   |  |  |  |
| X     |         |       |               |   |  |  |  |
| X     |         |       |               |   |  |  |  |
| N     |         | O     |               |   |  |  |  |
| N     |         | O     |               |   |  |  |  |
| N     |         |       | O             | O |  |  |  |
| N     |         |       |               | O |  |  |  |

[illegible]

|   | B2-24 | 4:5:8:10 | 1.35 | B2,D#2,B3,D#3 |   |   |   |   |  |  |
|---|-------|----------|------|---------------|---|---|---|---|--|--|
| X |       |          |      |               |   |   |   |   |  |  |
| X |       |          |      |               |   |   |   |   |  |  |
| N |       |          |      |               |   |   | O |   |  |  |
| N |       |          |      |               |   |   |   | O |  |  |
| N |       |          |      |               | O |   |   |   |  |  |
| N |       |          |      |               |   | O |   |   |  |  |

[illegible]

| C2-1 | 2:3:4:3:6:5 | 3.567 | C2,G2,C3,G2,G3,E3 |
|------|-------------|-------|-------------------|
| O    |             |       |                   |
| N    |             |       |                   |
| O    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
|      | -           | -     | -                 |

| C2-2 | 2:3:4:3:7:5 | 3.519 | C2,G2,C3,G2,A#4,E3 |
|------|-------------|-------|--------------------|
| O    |             |       |                    |
| N    |             |       |                    |
| O    |             |       |                    |
| N    |             |       |                    |
| N    |             |       |                    |
| N    |             |       |                    |
|      | -           | -     | -                  |

| C2-3 | 2:3:4:3:6:8 | 3.417 | C2,G2,C3,G2,G3,C4 |
|------|-------------|-------|-------------------|
| N    |             |       |                   |
| N    |             |       |                   |
| O    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
| N    |             |       |                   |
|      | -           | -     | -                 |

| C2-4 | 2:3:4:3:7:8 | 3.369 | C2,G2,C3,G2,A#4,C4 |
|------|-------------|-------|--------------------|
| N    |             |       |                    |
| N    |             |       |                    |
| O    |             |       |                    |
| N    |             |       |                    |
| N    |             |       |                    |
| N    |             |       |                    |
|      | -           | -     | -                  |

| C2-5 | 2:3:4:5:6:5 | 3.3 | C2,G2,C3,E3,G3,E3 |
|------|-------------|-----|-------------------|
| O    |             |     |                   |
| N    |             |     |                   |
| N    |             |     |                   |
| N    |             |     |                   |
| N    |             |     |                   |
| N    |             |     |                   |
|      | -           | -   | -                 |

|      |             |       |                    |   |  |   |   |   |   |   |
|------|-------------|-------|--------------------|---|--|---|---|---|---|---|
| C2-6 | 2:3:4:5:7:5 | 3.252 | C2,G2,C3,E3,A#4,E3 |   |  |   |   |   |   |   |
| O    |             |       |                    |   |  |   |   |   |   |   |
| N    |             |       |                    |   |  |   |   |   |   | O |
| N    |             |       |                    |   |  |   |   | O |   |   |
| N    |             |       |                    |   |  |   |   |   | O |   |
| N    |             |       |                    |   |  |   |   | O |   |   |
| N    |             |       |                    |   |  |   | O |   |   |   |
|      |             | -     |                    | - |  | - |   | - |   | - |

|      |           |       |                |   |  |   |   |   |   |   |
|------|-----------|-------|----------------|---|--|---|---|---|---|---|
| C2-7 | 2:3:4:3:6 | 3.167 | C2,G2,C3,G2,G3 |   |  |   |   |   |   |   |
| X    |           |       |                |   |  |   |   |   |   |   |
| N    |           |       |                |   |  |   | O |   |   |   |
| O    |           |       |                |   |  |   |   |   |   |   |
| N    |           |       |                |   |  |   |   |   | O |   |
| N    |           |       |                |   |  |   |   |   | O |   |
| N    |           |       |                |   |  |   | O |   |   |   |
|      |           | -     |                | - |  | - |   | - |   | - |

|      |             |      |                   |   |  |   |   |   |   |   |
|------|-------------|------|-------------------|---|--|---|---|---|---|---|
| C2-8 | 2:3:4:5:6:8 | 3.15 | C2,G2,C3,E3,G3,C4 |   |  |   |   |   |   |   |
| N    |             |      |                   |   |  |   | O |   |   |   |
| N    |             |      |                   |   |  |   | O |   |   |   |
| N    |             |      |                   |   |  |   |   | O |   |   |
| N    |             |      |                   |   |  |   |   |   | O |   |
| N    |             |      |                   |   |  |   |   | O |   |   |
| N    |             |      |                   |   |  |   | O |   |   |   |
|      |             | -    |                   | - |  | - |   | - |   | - |

|      |           |       |                |   |   |   |  |   |  |   |
|------|-----------|-------|----------------|---|---|---|--|---|--|---|
| C2-9 | 2:3:3:5:5 | 3.133 | C2,G2,G2,E3,E3 |   |   |   |  |   |  |   |
| O    |           |       |                |   |   |   |  |   |  |   |
| N    |           |       |                |   | O |   |  |   |  |   |
| O    |           |       |                |   |   |   |  |   |  |   |
| N    |           |       |                |   | O |   |  |   |  |   |
| N    |           | O     |                |   |   |   |  |   |  |   |
| X    |           |       |                |   |   |   |  |   |  |   |
|      |           | -     |                | - |   | - |  | - |  | - |

|       |           |       |                |   |   |   |  |   |  |   |
|-------|-----------|-------|----------------|---|---|---|--|---|--|---|
| C2-10 | 2:3:3:5:6 | 3.067 | C2,G2,G2,E3,G3 |   |   |   |  |   |  |   |
| N     |           |       |                |   |   |   |  |   |  |   |
| N     |           | O     |                |   |   |   |  |   |  |   |
| O     |           |       |                |   | O |   |  |   |  |   |
| N     |           |       |                |   | O |   |  |   |  |   |
| N     |           | O     |                |   |   |   |  |   |  |   |
| X     |           |       |                |   |   |   |  |   |  |   |
|       |           | -     |                | - |   | - |  | - |  | - |

|       |           |       |                 |   |   |  |   |  |  |   |
|-------|-----------|-------|-----------------|---|---|--|---|--|--|---|
| C2-11 | 2:3:3:5:7 | 3.019 | C2,G2,G2,E3,A#4 |   |   |  |   |  |  |   |
| N     |           |       |                 | O |   |  |   |  |  |   |
| N     |           |       |                 | O |   |  |   |  |  |   |
| O     |           |       |                 |   |   |  |   |  |  |   |
| N     |           |       |                 | O |   |  |   |  |  |   |
| N     |           | O     |                 |   |   |  |   |  |  |   |
| X     |           |       |                 |   |   |  |   |  |  |   |
|       | -         |       | -               |   | - |  | - |  |  | - |

|       |           |       |                |   |   |  |   |  |  |   |
|-------|-----------|-------|----------------|---|---|--|---|--|--|---|
| C2-12 | 2:3:4:5:5 | 2.967 | C2,G2,C3,E3,E3 |   |   |  |   |  |  |   |
| O     |           |       |                |   |   |  |   |  |  |   |
| N     |           |       |                | O |   |  |   |  |  |   |
| N     |           |       |                | O |   |  |   |  |  |   |
| N     |           |       |                | O |   |  |   |  |  |   |
| N     |           | O     |                |   |   |  |   |  |  |   |
| X     |           |       |                |   |   |  |   |  |  |   |
|       | -         |       | -              |   | - |  | - |  |  | - |

|       |           |     |                |   |   |  |   |  |  |   |
|-------|-----------|-----|----------------|---|---|--|---|--|--|---|
| C2-13 | 2:3:4:5:6 | 2.9 | C2,G2,C3,E3,G3 |   |   |  |   |  |  |   |
| N     |           | O   |                |   |   |  |   |  |  |   |
| N     |           |     |                | O |   |  |   |  |  |   |
| N     |           |     |                | O |   |  |   |  |  |   |
| N     |           |     |                | O |   |  |   |  |  |   |
| N     |           | O   |                |   |   |  |   |  |  |   |
| X     |           |     |                |   |   |  |   |  |  |   |
|       | -         |     | -              |   | - |  | - |  |  | - |

|       |           |     |                |  |   |   |   |   |  |   |
|-------|-----------|-----|----------------|--|---|---|---|---|--|---|
| C2-14 | 2:3:4:5:6 | 2.9 | C2,G2,C3,E3,G3 |  |   |   |   |   |  |   |
| X     |           |     |                |  |   |   |   |   |  |   |
| N     |           |     |                |  |   | O | O |   |  |   |
| N     |           |     |                |  |   |   | O |   |  |   |
| N     |           |     |                |  |   |   |   | O |  |   |
| N     |           |     |                |  |   |   |   | O |  |   |
| N     |           |     |                |  |   | O |   |   |  |   |
|       | -         |     | -              |  | - |   | - |   |  | - |

|       |           |       |                 |   |   |  |   |  |  |   |
|-------|-----------|-------|-----------------|---|---|--|---|--|--|---|
| C2-15 | 2:3:4:5:7 | 2.852 | C2,G2,C3,E3,A#4 |   |   |  |   |  |  |   |
| N     |           |       |                 | O |   |  |   |  |  |   |
| N     |           |       |                 | O |   |  |   |  |  |   |
| N     |           |       |                 | O |   |  |   |  |  |   |
| N     |           |       |                 | O |   |  |   |  |  |   |
| N     |           | O     |                 |   |   |  |   |  |  |   |
| X     |           |       |                 |   |   |  |   |  |  |   |
|       | -         |       | -               |   | - |  | - |  |  | - |



| C2-16 | 2:3:4:5:7 | 2.852 | C2,G2,C3,E3,A#4 |   |  |   |   |   |   |
|-------|-----------|-------|-----------------|---|--|---|---|---|---|
| X     |           |       |                 |   |  |   |   |   |   |
| N     |           |       |                 |   |  |   |   |   | O |
| N     |           |       |                 |   |  |   | O |   |   |
| N     |           |       |                 |   |  |   |   | O |   |
| N     |           |       |                 |   |  |   |   | O |   |
| N     |           |       |                 |   |  | O |   |   |   |
|       |           | -     |                 | - |  | - |   |   | - |

| C2-17 | 2:3:4:3 | 2.833 | C2,G2,C3,G2 |   |  |   |  |   |   |
|-------|---------|-------|-------------|---|--|---|--|---|---|
| X     |         |       |             |   |  |   |  |   |   |
| X     |         |       |             |   |  |   |  |   |   |
| O     |         |       |             |   |  |   |  |   |   |
| N     |         |       |             |   |  |   |  | O |   |
| N     |         |       |             |   |  |   |  | O |   |
| N     |         |       |             |   |  | O |  |   |   |
|       |         | -     |             | - |  | - |  |   | - |

| C2-18 | 2:3:3:5 | 2.733 | C2,G2,G2,E3 |   |  |   |  |  |   |
|-------|---------|-------|-------------|---|--|---|--|--|---|
| X     |         |       |             |   |  |   |  |  |   |
| N     |         |       |             | O |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |  |   |
| N     |         |       |             | O |  |   |  |  |   |
| N     |         | O     |             |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |  |   |
|       |         | -     |             | - |  | - |  |  | - |

| C2-19 | 2:3:4:5 | 2.567 | C2,G2,C3,E3 |   |  |   |   |   |   |
|-------|---------|-------|-------------|---|--|---|---|---|---|
| X     |         |       |             |   |  |   |   |   |   |
| X     |         |       |             |   |  |   |   |   |   |
| N     |         |       |             |   |  |   | O |   |   |
| N     |         |       |             |   |  |   |   | O |   |
| N     |         |       |             |   |  |   |   | O |   |
| N     |         |       |             |   |  | O |   |   |   |
|       |         | -     |             | - |  | - |   |   | - |

| C2-20 | 2:3:4:5 | 2.567 | C2,G2,C3,E3 |   |  |   |  |  |   |
|-------|---------|-------|-------------|---|--|---|--|--|---|
| X     |         |       |             |   |  |   |  |  |   |
| N     |         |       |             | O |  |   |  |  |   |
| N     |         |       |             | O |  |   |  |  |   |
| N     |         |       |             | O |  |   |  |  |   |
| N     |         | O     |             |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |  |   |
|       |         | -     |             | - |  | - |  |  | - |

| C2-21 | 3:4:5:6:8:10 | 2.35 | G1,C2,E2,G2,C3,E3 |
|-------|--------------|------|-------------------|
| O     |              |      |                   |
| N     | O            |      |                   |
| O     |              |      |                   |
| N     | O            |      |                   |
| N     |              | O    |                   |
| N     |              | O    |                   |

|       |              |       |                   |
|-------|--------------|-------|-------------------|
| C2-22 | 3:4:5:6:9:10 | 2.322 | G1,C2,E2,G2,D3,E3 |
| O     |              |       |                   |
| N     |              | O     |                   |
| O     |              |       |                   |
| N     | O            |       |                   |
| N     |              | O     |                   |
| N     |              | O     |                   |

|       |              |       |                   |
|-------|--------------|-------|-------------------|
| C2-23 | 3:4:5:6:9:12 | 2.289 | G1,C2,E2,G2,D3,G3 |
| N     |              | O     |                   |
| N     |              | O     |                   |
| O     |              |       |                   |
| N     | O            |       |                   |
| N     |              | O     |                   |
| N     |              | O     |                   |

|       |              |       |                    |
|-------|--------------|-------|--------------------|
| C2-24 | 3:4:5:7:9:12 | 2.241 | G1,C2,E2,A#3,D3,G3 |
| N     |              | O     |                    |
| N     |              | O     |                    |
| N     |              | O     |                    |
| N     | O            |       |                    |
| N     |              | O     |                    |
| N     |              | O     |                    |

|       |               |       |                   |
|-------|---------------|-------|-------------------|
| C2-25 | 3:4:6:6:10:10 | 2.233 | G1,C2,G2,G2,E3,E3 |
| O     |               |       |                   |
| N     |               | O     |                   |
| O     |               |       |                   |
| N     |               | O     |                   |
| N     | O             |       |                   |
| N     | O             |       |                   |

|       |              |       |                    |
|-------|--------------|-------|--------------------|
| C2-26 | 3:4:6:7:9:10 | 2.208 | G1,C2,G2,A#3,D3,E3 |
| O     |              |       |                    |
| N     | O            |       |                    |
| N     | O            |       |                    |
| N     |              | O     |                    |
| N     | O            |       |                    |
| N     | O            |       |                    |

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|       |               |       |                    |
|-------|---------------|-------|--------------------|
| C2-29 | 3:4:6:7:10:10 | 2.186 | G1,C2,G2,A#3,E3,E3 |
| O     |               |       |                    |
| N     |               | O     |                    |
| N     | O             |       |                    |
| N     |               | O     |                    |
| N     | O             |       |                    |
| N     | O             |       |                    |

|       |              |       |                    |
|-------|--------------|-------|--------------------|
| C2-30 | 3:4:6:7:9:12 | 2.174 | G1,C2,G2,A#3,D3,G3 |
| N     | O            |       |                    |
| N     | O            |       |                    |
| N     | O            |       |                    |
| N     |              | O     |                    |
| N     | O            |       |                    |
| N     | O            |       |                    |

|       |              |       |                   |   |   |  |   |  |  |   |  |
|-------|--------------|-------|-------------------|---|---|--|---|--|--|---|--|
| C2-31 | 3:4:6:8:9:10 | 2.172 | G1,C2,G2,C3,D3,E3 |   |   |  |   |  |  |   |  |
| O     |              |       |                   |   |   |  |   |  |  |   |  |
| N     |              |       | O                 |   |   |  |   |  |  |   |  |
| N     |              |       |                   | O |   |  |   |  |  |   |  |
| N     |              |       |                   | O |   |  |   |  |  |   |  |
| N     |              |       | O                 |   |   |  |   |  |  |   |  |
| N     |              |       | O                 |   |   |  |   |  |  |   |  |
|       | -            | -     |                   |   | - |  | - |  |  | - |  |

|       |               |       |                    |   |   |  |   |  |  |   |  |
|-------|---------------|-------|--------------------|---|---|--|---|--|--|---|--|
| C2-32 | 3:4:6:7:10:12 | 2.152 | G1,C2,G2,A#3,E3,G3 |   |   |  |   |  |  |   |  |
| N     |               |       | O                  |   |   |  |   |  |  |   |  |
| N     |               |       |                    | O |   |  |   |  |  |   |  |
| N     |               |       | O                  |   |   |  |   |  |  |   |  |
| N     |               |       |                    | O |   |  |   |  |  |   |  |
| N     |               |       | O                  |   |   |  |   |  |  |   |  |
| N     |               |       | O                  |   |   |  |   |  |  |   |  |
|       | -             | -     |                    |   | - |  | - |  |  | - |  |

|       |               |      |                   |   |   |  |   |  |  |   |  |
|-------|---------------|------|-------------------|---|---|--|---|--|--|---|--|
| C2-33 | 3:4:6:8:10:10 | 2.15 | G1,C2,G2,C3,E3,E3 |   |   |  |   |  |  |   |  |
| O     |               |      |                   |   |   |  |   |  |  |   |  |
| N     |               |      |                   | O |   |  |   |  |  |   |  |
| N     |               |      |                   | O |   |  |   |  |  |   |  |
| N     |               |      |                   | O |   |  |   |  |  |   |  |
| N     |               |      | O                 |   |   |  |   |  |  |   |  |
| N     |               |      | O                 |   |   |  |   |  |  |   |  |
|       | -             | -    |                   |   | - |  | - |  |  | - |  |

|       |              |       |                   |   |   |  |   |  |  |   |  |
|-------|--------------|-------|-------------------|---|---|--|---|--|--|---|--|
| C2-34 | 3:4:6:8:9:12 | 2.139 | G1,C2,G2,C3,D3,G3 |   |   |  |   |  |  |   |  |
| N     |              |       | O                 |   |   |  |   |  |  |   |  |
| N     |              |       | O                 |   |   |  |   |  |  |   |  |
| N     |              |       |                   | O |   |  |   |  |  |   |  |
| N     |              |       |                   | O |   |  |   |  |  |   |  |
| N     |              |       | O                 |   |   |  |   |  |  |   |  |
| N     |              |       | O                 |   |   |  |   |  |  |   |  |
|       | -            | -     |                   |   | - |  | - |  |  | - |  |

|       |           |       |                |  |   |  |   |  |  |   |  |
|-------|-----------|-------|----------------|--|---|--|---|--|--|---|--|
| C2-35 | 3:4:5:6:9 | 2.122 | G1,C2,E2,G2,D3 |  |   |  |   |  |  |   |  |
| X     |           |       |                |  |   |  |   |  |  |   |  |
| N     |           |       | O              |  |   |  |   |  |  |   |  |
| O     |           |       |                |  |   |  |   |  |  |   |  |
| N     | O         |       |                |  |   |  |   |  |  |   |  |
| N     |           |       | O              |  |   |  |   |  |  |   |  |
| N     |           |       | O              |  |   |  |   |  |  |   |  |
|       | -         | -     |                |  | - |  | - |  |  | - |  |

|       |               |       |                   |   |   |   |   |   |   |   |   |
|-------|---------------|-------|-------------------|---|---|---|---|---|---|---|---|
| C2-36 | 3:4:6:8:10:12 | 2.117 | G1,C2,G2,C3,E3,G3 |   |   |   |   |   |   |   |   |
| N     |               |       | O                 |   |   |   |   |   |   |   |   |
| N     |               |       |                   | O |   |   |   |   |   |   |   |
| N     |               |       |                   | O |   |   |   |   |   |   |   |
| N     |               |       |                   | O |   |   |   |   |   |   |   |
| N     |               |       | O                 |   |   |   |   |   |   |   |   |
| N     |               |       | O                 |   |   |   |   |   |   |   |   |
|       |               |       | -                 | - | - | - | - | - | - | - | - |

|       |            |     |                |   |   |   |   |   |   |   |   |
|-------|------------|-----|----------------|---|---|---|---|---|---|---|---|
| C2-37 | 3:4:5:6:10 | 2.1 | G1,C2,E2,G2,E3 |   |   |   |   |   |   |   |   |
| X     |            |     |                |   |   |   |   |   |   |   |   |
| N     |            |     |                | O |   |   |   |   |   |   |   |
| O     |            |     |                |   |   |   |   |   |   |   |   |
| N     | O          |     |                |   |   |   |   |   |   |   |   |
| N     |            |     | O              |   |   |   |   |   |   |   |   |
| N     |            |     | O              |   |   |   |   |   |   |   |   |
|       |            |     | -              | - | - | - | - | - | - | - | - |

|       |           |       |                |   |   |   |   |   |   |   |   |
|-------|-----------|-------|----------------|---|---|---|---|---|---|---|---|
| C2-38 | 3:4:6:6:9 | 2.056 | G1,C2,G2,G2,D3 |   |   |   |   |   |   |   |   |
| X     |           |       |                |   |   |   |   |   |   |   |   |
| N     |           |       | O              |   |   |   |   |   |   |   |   |
| O     |           |       |                |   |   |   |   |   |   |   |   |
| N     |           |       |                | O |   |   |   |   |   |   |   |
| N     |           |       | O              |   |   |   |   |   |   |   |   |
| N     |           |       | O              |   |   |   |   |   |   |   |   |
|       |           |       | -              | - | - | - | - | - | - | - | - |

|       |            |       |                |   |   |   |   |   |   |   |   |
|-------|------------|-------|----------------|---|---|---|---|---|---|---|---|
| C2-39 | 3:4:6:6:10 | 2.033 | G1,C2,G2,G2,E3 |   |   |   |   |   |   |   |   |
| X     |            |       |                |   |   |   |   |   |   |   |   |
| N     |            |       |                | O |   |   |   |   |   |   |   |
| O     |            |       |                |   |   |   |   |   |   |   |   |
| N     |            |       |                | O |   |   |   |   |   |   |   |
| N     |            |       | O              |   |   |   |   |   |   |   |   |
| N     |            |       | O              |   |   |   |   |   |   |   |   |
|       |            |       | -              | - | - | - | - | - | - | - | - |

|       |           |       |                 |   |   |   |   |   |   |   |   |
|-------|-----------|-------|-----------------|---|---|---|---|---|---|---|---|
| C2-40 | 3:4:6:7:9 | 2.008 | G1,C2,G2,A#3,D3 |   |   |   |   |   |   |   |   |
| X     |           |       |                 |   |   |   |   |   |   |   |   |
| N     |           |       | O               |   |   |   |   |   |   |   |   |
| N     |           |       | O               |   |   |   |   |   |   |   |   |
| N     |           |       |                 | O |   |   |   |   |   |   |   |
| N     |           |       | O               |   |   |   |   |   |   |   |   |
| N     |           |       | O               |   |   |   |   |   |   |   |   |
|       |           |       | -               | - | - | - | - | - | - | - | - |

|       |            |       |                 |  |   |  |   |  |  |   |
|-------|------------|-------|-----------------|--|---|--|---|--|--|---|
| C2-41 | 3:4:6:7:10 | 1.986 | G1,C2,G2,A#3,E3 |  |   |  |   |  |  |   |
| X     |            |       |                 |  |   |  |   |  |  |   |
| N     |            |       | O               |  |   |  |   |  |  |   |
| N     |            | O     |                 |  |   |  |   |  |  |   |
| N     |            |       | O               |  |   |  |   |  |  |   |
| N     |            | O     |                 |  |   |  |   |  |  |   |
| N     |            | O     |                 |  |   |  |   |  |  |   |
|       | -          |       | -               |  | - |  | - |  |  | - |

|       |           |       |                |   |   |  |   |  |  |   |
|-------|-----------|-------|----------------|---|---|--|---|--|--|---|
| C2-42 | 3:4:6:8:9 | 1.972 | G1,C2,G2,C3,D3 |   |   |  |   |  |  |   |
| X     |           |       |                |   |   |  |   |  |  |   |
| N     |           |       | O              |   |   |  |   |  |  |   |
| N     |           |       |                | O |   |  |   |  |  |   |
| N     |           |       |                | O |   |  |   |  |  |   |
| N     |           | O     |                |   |   |  |   |  |  |   |
| N     |           | O     |                |   |   |  |   |  |  |   |
|       | -         |       | -              |   | - |  | - |  |  | - |

|       |               |       |                    |  |   |   |   |  |  |   |
|-------|---------------|-------|--------------------|--|---|---|---|--|--|---|
| C2-43 | 4:5:7:6:10:10 | 1.919 | C2,E2,A#3,G2,E3,E3 |  |   |   |   |  |  |   |
| O     |               |       |                    |  |   |   |   |  |  |   |
| N     |               |       | O                  |  |   |   |   |  |  |   |
| O     |               |       |                    |  |   |   |   |  |  |   |
| N     |               |       |                    |  |   | O |   |  |  |   |
| N     |               |       |                    |  |   | O |   |  |  |   |
| N     |               |       |                    |  |   | O |   |  |  |   |
|       | -             |       | -                  |  | - |   | - |  |  | - |

|       |         |     |             |  |   |  |   |  |  |   |
|-------|---------|-----|-------------|--|---|--|---|--|--|---|
| C2-44 | 3:4:5:6 | 1.9 | G1,C2,E2,G2 |  |   |  |   |  |  |   |
| X     |         |     |             |  |   |  |   |  |  |   |
| X     |         |     |             |  |   |  |   |  |  |   |
| O     |         |     |             |  |   |  |   |  |  |   |
| N     | O       |     |             |  |   |  |   |  |  |   |
| N     |         | O   |             |  |   |  |   |  |  |   |
| N     |         | O   |             |  |   |  |   |  |  |   |
|       | -       |     | -           |  | - |  | - |  |  | - |

|       |               |       |                    |  |   |   |   |  |  |   |
|-------|---------------|-------|--------------------|--|---|---|---|--|--|---|
| C2-45 | 4:5:7:6:12:10 | 1.886 | C2,E2,A#3,G2,G3,E3 |  |   |   |   |  |  |   |
| O     |               |       |                    |  |   |   |   |  |  |   |
| N     |               |       |                    |  |   |   | O |  |  |   |
| O     |               |       |                    |  |   |   | O |  |  |   |
| N     |               |       |                    |  |   |   | O |  |  |   |
| N     |               |       |                    |  |   | O |   |  |  |   |
| N     |               |       |                    |  |   | O |   |  |  |   |
|       | -             |       | -                  |  | - |   | - |  |  | - |

|       |         |       |              |   |  |   |  |   |  |   |
|-------|---------|-------|--------------|---|--|---|--|---|--|---|
| C2-46 | 3:4:5:7 | 1.852 | G1,C2,E2,A#3 |   |  |   |  |   |  |   |
| X     |         |       |              |   |  |   |  |   |  |   |
| X     |         |       |              |   |  |   |  |   |  |   |
| N     |         | O     |              |   |  |   |  |   |  |   |
| N     |         |       | O            |   |  |   |  |   |  |   |
| N     |         |       | O            |   |  |   |  |   |  |   |
| N     |         |       | O            |   |  |   |  |   |  |   |
|       |         | -     |              | - |  | - |  | - |  | - |

|       |         |       |             |   |  |   |  |   |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|---|
| C2-47 | 3:4:6:6 | 1.833 | G1,C2,G2,G2 |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| O     |         |       |             |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
|       |         | -     |             | - |  | - |  | - |  | - |

|       |               |       |                     |   |  |   |   |   |  |   |
|-------|---------------|-------|---------------------|---|--|---|---|---|--|---|
| C2-48 | 4:5:7:6:12:14 | 1.829 | C2,E2,A#3,G2,G3,A#4 |   |  |   |   |   |  |   |
| N     |               |       | O                   |   |  |   |   |   |  |   |
| N     |               |       |                     |   |  | O |   |   |  |   |
| O     |               |       |                     |   |  |   | O |   |  |   |
| N     |               |       |                     |   |  |   | O |   |  |   |
| N     |               |       |                     |   |  | O |   |   |  |   |
| N     |               |       |                     |   |  |   | O |   |  |   |
|       |               | -     |                     | - |  | - |   | - |  | - |

|       |         |       |             |   |  |   |  |   |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|---|
| C2-49 | 3:4:5:8 | 1.817 | G1,C2,E2,C3 |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
| N     |         | O     |             |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
|       |         | -     |             | - |  | - |  | - |  | - |

|       |               |       |                    |   |  |   |   |   |  |   |
|-------|---------------|-------|--------------------|---|--|---|---|---|--|---|
| C2-50 | 4:5:7:6:12:16 | 1.811 | C2,E2,A#3,G2,G3,C4 |   |  |   |   |   |  |   |
| N     |               |       |                    |   |  |   | O |   |  |   |
| N     |               |       |                    |   |  |   | O |   |  |   |
| O     |               |       |                    |   |  |   |   | O |  |   |
| N     |               |       |                    |   |  |   | O |   |  |   |
| N     |               |       |                    |   |  | O |   |   |  |   |
| N     |               |       |                    |   |  |   | O |   |  |   |
|       |               | -     |                    | - |  | - |   | - |  | - |

| C2-51 | 4:5:6:8:10:16 | 1.808 | C2,E2,G2,C3,E3,C4 |
|-------|---------------|-------|-------------------|
| N     |               |       | O                 |
| N     |               |       | O                 |
| N     |               |       | O                 |
| N     |               |       |                   |
| N     |               |       | O                 |
| N     |               |       | O                 |

|       |               |       |                     |   |   |   |   |   |   |   |   |
|-------|---------------|-------|---------------------|---|---|---|---|---|---|---|---|
| C2-52 | 4:6:7:6:14:10 | 1.795 | C2,G2,A#3,G2,A#4,E3 |   |   |   |   |   |   |   |   |
| O     |               |       |                     |   |   |   |   |   |   |   |   |
| N     |               |       |                     |   |   |   |   |   |   | O |   |
| O     |               |       |                     |   |   |   |   |   |   |   |   |
| N     |               |       |                     |   |   |   | O |   |   |   |   |
| N     |               |       |                     |   |   |   |   |   | O |   |   |
| N     |               |       |                     |   |   |   | O |   |   |   |   |
|       | -             | -     | -                   | - | - | - | - | - | - | - | - |

|       |         |       |              |   |   |   |   |   |   |   |   |
|-------|---------|-------|--------------|---|---|---|---|---|---|---|---|
| C2-53 | 3:4:6:7 | 1.786 | G1,C2,G2,A#3 |   |   |   |   |   |   |   |   |
| X     |         |       |              |   |   |   |   |   |   |   |   |
| X     |         |       |              |   |   |   |   |   |   |   |   |
| N     |         | O     |              |   |   |   |   |   |   |   |   |
| N     |         |       | O            |   |   |   |   |   |   |   |   |
| N     |         | O     |              |   |   |   |   |   |   |   |   |
| N     |         | O     |              |   |   |   |   |   |   |   |   |
|       | -       | -     | -            | - | - | - | - | - | - | - | - |

|       |               |       |                    |   |   |   |   |   |   |   |   |
|-------|---------------|-------|--------------------|---|---|---|---|---|---|---|---|
| C2-54 | 4:5:7:9:12:10 | 1.775 | C2,E2,A#3,D3,G3,E3 |   |   |   |   |   |   |   |   |
| O     |               |       |                    |   |   |   |   |   |   |   |   |
| N     |               |       |                    |   |   |   | O |   |   |   |   |
| N     |               |       |                    |   |   |   | O |   |   |   |   |
| N     |               |       |                    |   |   |   | O |   |   |   |   |
| N     |               |       |                    |   |   |   | O |   |   |   |   |
| N     |               |       |                    |   |   |   | O |   |   |   |   |
|       | -             | -     | -                  | - | - | - | - | - | - | - | - |

|       |         |      |             |   |   |   |   |   |   |   |   |
|-------|---------|------|-------------|---|---|---|---|---|---|---|---|
| C2-55 | 3:4:6:8 | 1.75 | G1,C2,G2,C3 |   |   |   |   |   |   |   |   |
| X     |         |      |             |   |   |   |   |   |   |   |   |
| X     |         |      |             |   |   |   |   |   |   |   |   |
| N     |         |      |             | O |   |   |   |   |   |   |   |
| N     |         |      |             | O |   |   |   |   |   |   |   |
| N     |         | O    |             |   |   |   |   |   |   |   |   |
| N     |         | O    |             |   |   |   |   |   |   |   |   |
|       | -       | -    | -           | - | - | - | - | - | - | - | - |



|       |            |       |                |   |   |   |  |  |   |
|-------|------------|-------|----------------|---|---|---|--|--|---|
| C2-56 | 4:5:6:6:12 | 1.733 | C2,E2,G2,G2,G3 |   |   |   |  |  |   |
| X     |            |       |                |   |   |   |  |  |   |
| N     |            |       |                |   |   | O |  |  |   |
| O     |            |       |                |   |   | O |  |  |   |
| N     |            |       |                | O |   |   |  |  |   |
| N     |            |       |                | O |   | O |  |  |   |
| N     |            |       |                |   |   | O |  |  |   |
|       |            | -     | -              | - | - |   |  |  | - |

|       |            |       |                 |   |   |   |  |  |   |
|-------|------------|-------|-----------------|---|---|---|--|--|---|
| C2-57 | 4:5:7:6:10 | 1.719 | C2,E2,A#3,G2,E3 |   |   |   |  |  |   |
| X     |            |       |                 |   |   |   |  |  |   |
| N     |            |       |                 | O |   |   |  |  |   |
| O     |            |       |                 | O |   |   |  |  |   |
| N     |            |       |                 |   |   | O |  |  |   |
| N     |            |       |                 |   |   | O |  |  |   |
| N     |            |       |                 |   |   | O |  |  |   |
|       |            | -     | -               | - | - |   |  |  | - |

|       |            |       |                 |   |   |   |  |  |   |
|-------|------------|-------|-----------------|---|---|---|--|--|---|
| C2-58 | 4:5:7:6:12 | 1.686 | C2,E2,A#3,G2,G3 |   |   |   |  |  |   |
| X     |            |       |                 |   |   |   |  |  |   |
| N     |            |       |                 |   |   | O |  |  |   |
| O     |            |       |                 |   |   | O |  |  |   |
| N     |            |       |                 |   |   | O |  |  |   |
| N     |            |       |                 |   |   | O |  |  |   |
| N     |            |       |                 |   |   | O |  |  |   |
|       |            | -     | -               | - | - |   |  |  | - |

|       |            |       |                |   |   |   |  |  |   |
|-------|------------|-------|----------------|---|---|---|--|--|---|
| C2-59 | 4:5:6:8:10 | 1.683 | C2,E2,G2,C3,E3 |   |   |   |  |  |   |
| X     |            |       |                |   |   |   |  |  |   |
| N     |            |       |                | O |   |   |  |  |   |
| N     |            |       |                | O |   |   |  |  |   |
| N     |            |       |                | O |   |   |  |  |   |
| N     |            |       |                |   |   | O |  |  |   |
| N     |            |       |                |   |   | O |  |  |   |
|       |            | -     | -              | - | - |   |  |  | - |

|       |            |       |                |   |   |  |  |  |   |
|-------|------------|-------|----------------|---|---|--|--|--|---|
| C2-60 | 4:5:6:8:10 | 1.683 | C2,E2,G2,C3,E3 |   |   |  |  |  |   |
| O     |            |       |                |   |   |  |  |  |   |
| N     | O          |       |                |   |   |  |  |  |   |
| O     |            |       |                |   |   |  |  |  |   |
| N     |            | O     |                |   |   |  |  |  |   |
| N     |            |       | O              |   |   |  |  |  |   |
| X     |            |       |                |   |   |  |  |  |   |
|       |            | -     | -              | - | - |  |  |  | - |

|       |                |       |                     |
|-------|----------------|-------|---------------------|
| C2-61 | 4:6:7:10:14:10 | 1.662 | C2,G2,A#3,E3,A#4,E3 |
| O     |                |       |                     |
| N     |                |       |                     |
| N     |                |       |                     |
| N     |                |       |                     |
| N     |                |       |                     |
| N     |                |       |                     |
|       | -              | -     | -                   |

|       |            |       |                |
|-------|------------|-------|----------------|
| C2-62 | 4:5:6:9:10 | 1.656 | C2,E2,G2,D3,E3 |
| O     |            |       |                |
| N     |            |       |                |
| O     |            |       |                |
| N     |            |       |                |
| N     |            |       |                |
| X     |            |       |                |
|       | -          | -     | -              |

|       |            |      |                |
|-------|------------|------|----------------|
| C2-63 | 4:5:6:8:12 | 1.65 | C2,E2,G2,C3,G3 |
| N     |            |      |                |
| N     |            |      |                |
| O     |            |      |                |
| N     |            |      |                |
| N     |            |      |                |
| X     |            |      |                |
|       | -          | -    | -              |

|       |            |       |                 |
|-------|------------|-------|-----------------|
| C2-64 | 4:5:7:8:10 | 1.636 | C2,E2,A#3,C3,E3 |
| O     |            |       |                 |
| N     |            |       |                 |
| N     |            |       |                 |
| N     |            |       |                 |
| N     |            |       |                 |
| X     |            |       |                 |
|       | -          | -     | -               |

|       |            |       |                |
|-------|------------|-------|----------------|
| C2-65 | 4:5:6:9:12 | 1.622 | C2,E2,G2,D3,G3 |
| N     |            |       |                |
| N     |            |       |                |
| O     |            |       |                |
| N     |            |       |                |
| N     |            |       |                |
| X     |            |       |                |
|       | -          | -     | -              |

|       |            |       |                 |
|-------|------------|-------|-----------------|
| C2-66 | 4:5:7:9:10 | 1.608 | C2,E2,A#3,D3,E3 |
| O     |            |       |                 |
| N     |            | O     |                 |
| N     |            | O     |                 |
| N     | O          |       |                 |
| N     |            | O     |                 |
| X     |            |       |                 |
|       | -          | -     | -               |

|       |            |       |                |
|-------|------------|-------|----------------|
| C2-67 | 4:6:6:9:10 | 1.589 | C2,G2,G2,D3,E3 |
| O     |            |       |                |
| N     |            | O     |                |
| O     |            |       |                |
| N     |            | O     |                |
| N     |            | O     |                |
| X     |            |       |                |
|       | -          | -     | -              |

|       |                |       |                     |
|-------|----------------|-------|---------------------|
| C2-68 | 4:6:7:10:14:16 | 1.587 | C2,G2,A#3,E3,A#4,C4 |
| N     |                |       | O                   |
| N     |                |       |                     |
| N     |                |       | O                   |
| N     |                |       | O                   |
| N     |                |       | O                   |
| N     |                |       | O                   |
|       | -              | -     | -                   |

|       |            |       |                 |
|-------|------------|-------|-----------------|
| C2-69 | 4:5:7:9:12 | 1.574 | C2,E2,A#3,D3,G3 |
| N     |            | O     |                 |
| N     |            | O     |                 |
| N     |            | O     |                 |
| N     | O          |       |                 |
| N     |            | O     |                 |
| X     |            |       |                 |
|       | -          | -     | -               |

|       |         |       |             |
|-------|---------|-------|-------------|
| C2-70 | 4:5:6:6 | 1.567 | C2,E2,G2,G2 |
| X     |         |       |             |
| X     |         |       |             |
| O     |         |       |             |
| N     |         | O     |             |
| N     |         |       | O           |
| N     |         |       | O           |
|       | -       | -     | -           |

|       |            |       |                |   |   |  |  |  |   |
|-------|------------|-------|----------------|---|---|--|--|--|---|
| C2-71 | 4:6:6:9:12 | 1.556 | C2,G2,G2,D3,G3 |   |   |  |  |  |   |
| N     |            | O     |                |   |   |  |  |  |   |
| N     |            | O     |                |   |   |  |  |  |   |
| O     |            |       |                |   |   |  |  |  |   |
| N     |            |       | O              |   |   |  |  |  |   |
| N     |            | O     |                |   |   |  |  |  |   |
| X     |            |       |                |   |   |  |  |  |   |
|       | -          |       | -              | - | - |  |  |  | - |

|       |             |       |                 |   |   |   |   |  |   |
|-------|-------------|-------|-----------------|---|---|---|---|--|---|
| C2-72 | 4:5:7:10:12 | 1.552 | C2,E2,A#3,E3,G3 |   |   |   |   |  |   |
| X     |             |       |                 |   |   |   |   |  |   |
| N     |             |       |                 |   | O |   |   |  |   |
| N     |             |       |                 |   |   | O |   |  |   |
| N     |             |       |                 |   |   |   | O |  |   |
| N     |             |       |                 |   | O |   |   |  |   |
| N     |             |       |                 |   |   | O |   |  |   |
|       | -           |       | -               | - | - |   |   |  | - |

|       |            |       |                 |   |   |  |  |  |   |
|-------|------------|-------|-----------------|---|---|--|--|--|---|
| C2-73 | 4:6:7:9:10 | 1.541 | C2,G2,A#3,D3,E3 |   |   |  |  |  |   |
| O     |            |       |                 |   |   |  |  |  |   |
| N     |            | O     |                 |   |   |  |  |  |   |
| N     |            | O     |                 |   |   |  |  |  |   |
| N     |            |       | O               |   |   |  |  |  |   |
| N     |            | O     |                 |   |   |  |  |  |   |
| X     |            |       |                 |   |   |  |  |  |   |
|       | -          |       | -               | - | - |  |  |  | - |

|       |         |       |              |   |   |   |   |  |   |
|-------|---------|-------|--------------|---|---|---|---|--|---|
| C2-74 | 4:5:7:6 | 1.519 | C2,E2,A#3,G2 |   |   |   |   |  |   |
| X     |         |       |              |   |   |   |   |  |   |
| X     |         |       |              |   |   |   |   |  |   |
| O     |         |       |              |   |   |   |   |  |   |
| N     |         |       |              |   |   | O |   |  |   |
| N     |         |       |              |   |   | O |   |  |   |
| N     |         |       |              |   |   |   | O |  |   |
|       | -       |       | -            | - | - |   |   |  | - |

|       |             |       |                 |   |   |  |  |  |   |
|-------|-------------|-------|-----------------|---|---|--|--|--|---|
| C2-75 | 4:6:7:10:10 | 1.519 | C2,G2,A#3,E3,E3 |   |   |  |  |  |   |
| O     |             |       |                 |   |   |  |  |  |   |
| N     |             |       | O               |   |   |  |  |  |   |
| N     |             | O     |                 |   |   |  |  |  |   |
| N     |             |       | O               |   |   |  |  |  |   |
| N     |             | O     |                 |   |   |  |  |  |   |
| X     |             |       |                 |   |   |  |  |  |   |
|       | -           |       | -               | - | - |  |  |  | - |

|       |             |       |                |   |   |
|-------|-------------|-------|----------------|---|---|
| C2-76 | 4:5:8:10:12 | 1.517 | C2,E2,C3,E3,G3 |   |   |
| X     |             |       |                |   |   |
| N     |             |       |                | O |   |
| N     |             |       |                |   | O |
| N     |             |       |                |   | O |
| N     |             |       | O              |   |   |
| N     |             |       |                | O |   |
|       |             |       |                |   |   |
|       |             |       |                |   |   |

|       |            |       |                 |  |  |
|-------|------------|-------|-----------------|--|--|
| C2-77 | 4:6:7:9:12 | 1.508 | C2,G2,A#3,D3,G3 |  |  |
| N     |            |       |                 |  |  |
| N     |            |       |                 |  |  |
| N     |            |       |                 |  |  |
| N     |            |       |                 |  |  |
| N     |            |       |                 |  |  |
| X     |            |       |                 |  |  |
|       |            |       |                 |  |  |
|       |            |       |                 |  |  |

|       |            |       |                |  |  |
|-------|------------|-------|----------------|--|--|
| C2-78 | 4:6:8:9:10 | 1.506 | C2,G2,C3,D3,E3 |  |  |
| O     |            |       |                |  |  |
| N     |            |       |                |  |  |
| N     |            |       |                |  |  |
| N     |            |       |                |  |  |
| N     |            |       |                |  |  |
| X     |            |       |                |  |  |
|       |            |       |                |  |  |
|       |            |       |                |  |  |

|       |             |       |                 |  |  |
|-------|-------------|-------|-----------------|--|--|
| C2-79 | 4:6:7:10:12 | 1.486 | C2,G2,A#3,E3,G3 |  |  |
| N     |             |       |                 |  |  |
| N     |             |       |                 |  |  |
| N     |             |       |                 |  |  |
| N     |             |       |                 |  |  |
| N     |             |       |                 |  |  |
| X     |             |       |                 |  |  |
|       |             |       |                 |  |  |
|       |             |       |                 |  |  |

|       |         |       |             |  |  |
|-------|---------|-------|-------------|--|--|
| C2-80 | 4:5:6:8 | 1.483 | C2,E2,G2,C3 |  |  |
| X     |         |       |             |  |  |
| X     |         |       |             |  |  |
| N     |         |       |             |  |  |
| N     |         |       |             |  |  |
| N     |         |       |             |  |  |
| N     |         |       |             |  |  |
|       |         |       |             |  |  |
|       |         |       |             |  |  |

| C2-81 | 4:5:6:8 | 1.483 | C2,E2,G2,C3 |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| X     |         |       |             |   |   |  |   |
| N     | O       |       |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     |         | O     |             |   |   |  |   |
| N     |         |       | O           |   |   |  |   |
| X     |         |       |             |   |   |  |   |
|       |         | -     | -           | - | - |  | - |

| C2-82 | 4:5:8:6 | 1.483 | C2,E2,C3,G2 |   |   |   |   |
|-------|---------|-------|-------------|---|---|---|---|
| X     |         |       |             |   |   |   |   |
| X     |         |       |             |   |   |   |   |
| O     |         |       |             |   |   |   |   |
| N     |         |       |             |   |   | O |   |
| N     |         |       |             |   | O |   |   |
| N     |         |       |             |   | O |   |   |
|       |         | -     | -           | - | - |   | - |

| C2-83 | 4:6:8:9:12 | 1.472 | C2,G2,C3,D3,G3 |   |   |   |   |
|-------|------------|-------|----------------|---|---|---|---|
| X     |            |       |                |   |   |   |   |
| N     |            |       |                |   | O |   |   |
| N     |            |       |                |   | O |   |   |
| N     |            |       |                |   |   |   | O |
| N     |            |       |                |   |   | O |   |
| N     |            |       |                |   | O |   |   |
|       |            | -     | -              | - | - |   | - |

| C2-84 | 4:6:8:9:12 | 1.472 | C2,G2,C3,D3,G3 |   |   |  |   |
|-------|------------|-------|----------------|---|---|--|---|
| N     |            | O     |                |   |   |  |   |
| N     |            | O     |                |   |   |  |   |
| N     |            |       | O              |   |   |  |   |
| N     |            |       | O              |   |   |  |   |
| N     |            | O     |                |   |   |  |   |
| X     |            |       |                |   |   |  |   |
|       |            | -     | -              | - | - |  | - |

| C2-85 | 4:6:7:10:14 | 1.462 | C2,G2,A#3,E3,A#4 |   |   |   |   |
|-------|-------------|-------|------------------|---|---|---|---|
| X     |             |       |                  |   |   |   |   |
| N     |             |       |                  |   |   |   | O |
| N     |             |       |                  |   | O |   |   |
| N     |             |       |                  |   | O |   |   |
| N     |             |       |                  |   |   | O |   |
| N     |             |       |                  |   | O |   |   |
|       |             | -     | -                | - | - |   | - |

|       |             |       |                  |   |   |   |  |   |  |  |   |
|-------|-------------|-------|------------------|---|---|---|--|---|--|--|---|
| C2-86 | 4:6:7:10:14 | 1.462 | C2,G2,A#3,E3,A#4 |   |   |   |  |   |  |  |   |
| N     |             |       |                  |   | O |   |  |   |  |  |   |
| N     |             |       |                  | O |   |   |  |   |  |  |   |
| N     |             | O     |                  |   |   |   |  |   |  |  |   |
| N     |             |       |                  | O |   |   |  |   |  |  |   |
| N     |             | O     |                  |   |   |   |  |   |  |  |   |
| X     |             |       |                  |   |   |   |  |   |  |  |   |
|       |             | -     |                  | - |   | - |  | - |  |  | - |

|       |         |       |             |   |  |   |  |   |  |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|--|---|
| C2-87 | 4:5:6:9 | 1.456 | C2,E2,G2,D3 |   |  |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |   |  |  |   |
| N     |         | O     |             |   |  |   |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |   |  |  |   |
| N     | O       |       |             |   |  |   |  |   |  |  |   |
| N     |         | O     |             |   |  |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |   |  |  |   |
|       |         | -     |             | - |  | - |  | - |  |  | - |

|       |         |       |              |   |  |   |   |   |   |  |   |
|-------|---------|-------|--------------|---|--|---|---|---|---|--|---|
| C2-88 | 4:6:7:6 | 1.452 | C2,G2,A#3,G2 |   |  |   |   |   |   |  |   |
| X     |         |       |              |   |  |   |   |   |   |  |   |
| X     |         |       |              |   |  |   |   |   |   |  |   |
| O     |         |       |              |   |  |   |   |   |   |  |   |
| N     |         |       |              |   |  |   | O |   |   |  |   |
| N     |         |       |              |   |  |   |   |   | O |  |   |
| N     |         |       |              |   |  |   | O |   |   |  |   |
|       |         | -     |              | - |  | - |   | - |   |  | - |

|       |         |       |              |   |  |   |   |   |  |  |   |
|-------|---------|-------|--------------|---|--|---|---|---|--|--|---|
| C2-89 | 4:5:7:8 | 1.436 | C2,E2,A#3,C3 |   |  |   |   |   |  |  |   |
| X     |         |       |              |   |  |   |   |   |  |  |   |
| X     |         |       |              |   |  |   |   |   |  |  |   |
| N     |         |       |              | O |  |   |   |   |  |  |   |
| N     |         |       |              |   |  |   | O |   |  |  |   |
| N     |         |       |              |   |  | O |   |   |  |  |   |
| N     |         |       |              |   |  |   | O |   |  |  |   |
|       |         | -     |              | - |  | - |   | - |  |  | - |

|       |         |       |              |   |  |   |  |   |  |  |   |
|-------|---------|-------|--------------|---|--|---|--|---|--|--|---|
| C2-90 | 4:5:7:8 | 1.436 | C2,E2,A#3,C3 |   |  |   |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
| N     | O       |       |              |   |  |   |  |   |  |  |   |
| N     |         | O     |              |   |  |   |  |   |  |  |   |
| N     |         |       |              |   |  |   |  |   |  |  |   |
| N     |         | O     |              |   |  |   |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
|       |         | -     |              | - |  | - |  | - |  |  | - |

| C2-91 | 4:5:6:10 | 1.433 | C2,E2,G2,E3 |   |   |  |   |
|-------|----------|-------|-------------|---|---|--|---|
| X     |          |       |             |   |   |  |   |
| N     |          |       | O           |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| N     | O        |       |             |   |   |  |   |
| N     |          | O     |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
|       |          | -     | -           | - | - |  | - |

| C2-92 | 4:5:7:9 | 1.408 | C2,E2,A#3,D3 |   |   |  |   |
|-------|---------|-------|--------------|---|---|--|---|
| X     |         |       |              |   |   |  |   |
| X     |         |       |              |   |   |  |   |
| N     |         |       | O            | O |   |  |   |
| N     |         |       | O            | O |   |  |   |
| N     |         |       | O            | O |   |  |   |
| N     |         |       |              | O |   |  |   |
|       |         | -     | -            | - | - |  | - |

| C2-93 | 4:5:7:9 | 1.408 | C2,E2,A#3,D3 |   |   |  |   |
|-------|---------|-------|--------------|---|---|--|---|
| X     |         |       |              |   |   |  |   |
| N     |         | O     |              |   |   |  |   |
| N     |         | O     |              |   |   |  |   |
| N     | O       |       |              |   |   |  |   |
| N     |         | O     |              |   |   |  |   |
| X     |         |       |              |   |   |  |   |
|       |         | -     | -            | - | - |  | - |

| C2-94 | 4:6:6:9 | 1.389 | C2,G2,G2,D3 |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| X     |         |       |             |   |   |  |   |
| N     |         | O     |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     |         |       | O           |   |   |  |   |
| N     |         | O     |             |   |   |  |   |
| X     |         |       |             |   |   |  |   |
|       |         | -     | -           | - | - |  | - |

| C2-95 | 4:5:7:10 | 1.386 | C2,E2,A#3,E3 |   |   |  |   |
|-------|----------|-------|--------------|---|---|--|---|
| X     |          |       |              |   |   |  |   |
| X     |          |       |              |   |   |  |   |
| N     |          |       |              |   | O |  |   |
| N     |          |       | O            | O |   |  |   |
| N     |          |       | O            | O |   |  |   |
| N     |          |       |              | O |   |  |   |
|       |          | -     | -            | - | - |  | - |



|       |  |         |  |       |  |             |  |  |   |   |  |  |  |  |  |  |   |  |  |  |  |
|-------|--|---------|--|-------|--|-------------|--|--|---|---|--|--|--|--|--|--|---|--|--|--|--|
| C2-96 |  | 4:5:8:9 |  | 1.372 |  | C2,E2,C3,D3 |  |  |   |   |  |  |  |  |  |  |   |  |  |  |  |
| X     |  |         |  |       |  |             |  |  |   |   |  |  |  |  |  |  |   |  |  |  |  |
| X     |  |         |  |       |  |             |  |  |   |   |  |  |  |  |  |  |   |  |  |  |  |
| N     |  |         |  |       |  |             |  |  | O |   |  |  |  |  |  |  | O |  |  |  |  |
| N     |  |         |  |       |  |             |  |  | O |   |  |  |  |  |  |  |   |  |  |  |  |
| N     |  |         |  |       |  |             |  |  | O |   |  |  |  |  |  |  |   |  |  |  |  |
| N     |  |         |  |       |  |             |  |  |   | O |  |  |  |  |  |  |   |  |  |  |  |

|       |  |          |  |      |  |             |   |   |   |  |  |  |
|-------|--|----------|--|------|--|-------------|---|---|---|--|--|--|
| C2-97 |  | 4:5:8:10 |  | 1.35 |  | C2,E2,C3,E3 |   |   |   |  |  |  |
| X     |  |          |  |      |  |             |   |   |   |  |  |  |
| X     |  |          |  |      |  |             |   |   |   |  |  |  |
| N     |  |          |  |      |  |             |   | O |   |  |  |  |
| N     |  |          |  |      |  |             |   |   | O |  |  |  |
| N     |  |          |  |      |  |             | O |   |   |  |  |  |
| N     |  |          |  |      |  |             |   | O |   |  |  |  |

[illegible]

|       |          |       |              |  |  |   |   |
|-------|----------|-------|--------------|--|--|---|---|
| C2-99 | 4:6:7:10 | 1.319 | C2,G2,A#3,E3 |  |  |   |   |
| X     |          |       |              |  |  |   |   |
| X     |          |       |              |  |  |   |   |
| N     |          |       |              |  |  | O |   |
| N     |          |       |              |  |  | O |   |
| N     |          |       |              |  |  |   | O |
| N     |          |       |              |  |  | O |   |

|        |  |          |   |       |   |              |  |  |  |  |  |
|--------|--|----------|---|-------|---|--------------|--|--|--|--|--|
| C2-100 |  | 4:6:7:10 |   | 1.319 |   | C2,G2,A#3,E3 |  |  |  |  |  |
| X      |  |          |   |       |   |              |  |  |  |  |  |
| N      |  |          |   |       | O |              |  |  |  |  |  |
| N      |  |          | O |       |   |              |  |  |  |  |  |
| N      |  |          |   |       | O |              |  |  |  |  |  |
| N      |  |          | O |       |   |              |  |  |  |  |  |
| X      |  |          |   |       |   |              |  |  |  |  |  |

| C2-101 | 4:6:8:9 | 1.306 | C2,G2,C3,D3 |   |  |  |   |
|--------|---------|-------|-------------|---|--|--|---|
| X      |         |       |             |   |  |  |   |
| N      |         | O     |             |   |  |  |   |
| N      |         |       | O           |   |  |  |   |
| N      |         |       | O           |   |  |  |   |
| N      |         | O     |             |   |  |  |   |
| X      |         |       |             |   |  |  |   |
|        | -       | -     | -           | - |  |  | - |

| C2-102 | 4:6:8:9 | 1.306 | C2,G2,C3,D3 |   |   |  |   |
|--------|---------|-------|-------------|---|---|--|---|
| X      |         |       |             |   |   |  |   |
| X      |         |       |             |   |   |  |   |
| N      |         |       | O           |   |   |  |   |
| N      |         |       |             |   | O |  |   |
| N      |         |       |             |   | O |  |   |
| N      |         |       | O           |   |   |  |   |
|        | -       | -     | -           | - |   |  | - |

| C2-103 | 5:8:10:12:16:20 | 1.242 | E1,C2,E2,G2,C3,E3 |   |  |  |   |
|--------|-----------------|-------|-------------------|---|--|--|---|
| O      |                 |       |                   |   |  |  |   |
| N      | O               |       |                   |   |  |  |   |
| O      |                 |       |                   |   |  |  |   |
| N      | O               |       |                   |   |  |  |   |
| N      |                 | O     |                   |   |  |  |   |
| O      |                 |       |                   |   |  |  |   |
|        | -               | -     | -                 | - |  |  | - |

| C2-104 | 5:8:10:12:18:20 | 1.228 | E1,C2,E2,G2,D3,E3 |   |  |  |   |
|--------|-----------------|-------|-------------------|---|--|--|---|
| O      |                 |       |                   |   |  |  |   |
| N      |                 | O     |                   |   |  |  |   |
| O      |                 |       |                   |   |  |  |   |
| N      | O               |       |                   |   |  |  |   |
| N      |                 | O     |                   |   |  |  |   |
| O      |                 |       |                   |   |  |  |   |
|        | -               | -     | -                 | - |  |  | - |

| C2-105 | 5:8:10:14:16:20 | 1.218 | E1,C2,E2,A#3,C3,E3 |   |  |  |   |
|--------|-----------------|-------|--------------------|---|--|--|---|
| O      |                 |       |                    |   |  |  |   |
| N      | O               |       |                    |   |  |  |   |
| N      |                 | O     |                    |   |  |  |   |
| N      | O               |       |                    |   |  |  |   |
| N      |                 | O     |                    |   |  |  |   |
| O      |                 |       |                    |   |  |  |   |
|        | -               | -     | -                  | - |  |  | - |

|        |                 |       |                    |  |  |  |  |  |  |  |  |
|--------|-----------------|-------|--------------------|--|--|--|--|--|--|--|--|
| C2-106 | 5:8:10:14:18:20 | 1.204 | E1,C2,E2,A#3,D3,E3 |  |  |  |  |  |  |  |  |
| O      |                 |       |                    |  |  |  |  |  |  |  |  |
| N      |                 | O     |                    |  |  |  |  |  |  |  |  |
| N      |                 | O     |                    |  |  |  |  |  |  |  |  |
| N      | O               |       |                    |  |  |  |  |  |  |  |  |
| N      |                 | O     |                    |  |  |  |  |  |  |  |  |
| O      |                 |       |                    |  |  |  |  |  |  |  |  |
|        |                 |       |                    |  |  |  |  |  |  |  |  |

|        |                 |       |                   |   |  |  |  |  |  |  |  |
|--------|-----------------|-------|-------------------|---|--|--|--|--|--|--|--|
| C2-107 | 5:8:12:12:18:20 | 1.194 | E1,C2,G2,G2,D3,E3 |   |  |  |  |  |  |  |  |
| O      |                 |       |                   |   |  |  |  |  |  |  |  |
| N      |                 | O     |                   |   |  |  |  |  |  |  |  |
| O      |                 |       |                   |   |  |  |  |  |  |  |  |
| N      |                 |       |                   | O |  |  |  |  |  |  |  |
| N      |                 | O     |                   |   |  |  |  |  |  |  |  |
| O      |                 |       |                   |   |  |  |  |  |  |  |  |
|        |                 |       |                   |   |  |  |  |  |  |  |  |

|        |                 |       |                   |  |   |  |   |  |   |  |   |
|--------|-----------------|-------|-------------------|--|---|--|---|--|---|--|---|
| C2-108 | 5:8:12:12:20:20 | 1.183 | E1,C2,G2,G2,E3,E3 |  |   |  |   |  |   |  |   |
| O      |                 |       |                   |  |   |  |   |  |   |  |   |
| N      |                 |       |                   |  | O |  |   |  |   |  |   |
| O      |                 |       |                   |  |   |  |   |  |   |  |   |
| N      |                 |       |                   |  | O |  |   |  |   |  |   |
| N      |                 |       | O                 |  |   |  |   |  |   |  |   |
| O      |                 |       |                   |  |   |  |   |  |   |  |   |
|        |                 |       | -                 |  | - |  | - |  | - |  | - |

|        |                |       |                   |  |  |  |  |  |  |  |  |
|--------|----------------|-------|-------------------|--|--|--|--|--|--|--|--|
| C2-109 | 6:8:9:12:18:24 | 1.167 | G1,C2,D2,G2,D3,G3 |  |  |  |  |  |  |  |  |
| N      | O              |       |                   |  |  |  |  |  |  |  |  |
| N      | O              |       |                   |  |  |  |  |  |  |  |  |
| O      |                |       |                   |  |  |  |  |  |  |  |  |
| O      |                |       |                   |  |  |  |  |  |  |  |  |
| N      | O              |       |                   |  |  |  |  |  |  |  |  |
| N      | O              |       |                   |  |  |  |  |  |  |  |  |
|        |                |       |                   |  |  |  |  |  |  |  |  |

|        |                 |      |                    |  |   |  |   |  |   |  |   |
|--------|-----------------|------|--------------------|--|---|--|---|--|---|--|---|
| C2-110 | 5:8:12:14:20:20 | 1.16 | E1,C2,G2,A#3,E3,E3 |  |   |  |   |  |   |  |   |
| O      |                 |      |                    |  |   |  |   |  |   |  |   |
| N      |                 |      |                    |  | O |  |   |  |   |  |   |
| N      |                 |      | O                  |  |   |  |   |  |   |  |   |
| N      |                 |      |                    |  | O |  |   |  |   |  |   |
| N      |                 |      | O                  |  |   |  |   |  |   |  |   |
| O      |                 |      |                    |  |   |  |   |  |   |  |   |
|        |                 |      | -                  |  | - |  | - |  | - |  | - |

|        |                 |       |                   |
|--------|-----------------|-------|-------------------|
| C2-111 | 5:8:12:16:18:20 | 1.153 | E1,C2,G2,C3,D3,E3 |
| O      |                 |       |                   |
| N      | O               |       |                   |
| N      |                 | O     |                   |
| N      |                 | O     |                   |
| N      | O               |       |                   |
| O      |                 |       |                   |
|        | -               | -     | -                 |

|        |       |      |          |
|--------|-------|------|----------|
| C2-112 | 4:5:8 | 1.15 | C2,E2,C3 |
| X      |       |      |          |
| X      |       |      |          |
| X      |       |      |          |
| N      |       |      | O        |
| N      |       | O    |          |
| N      |       | O    |          |
|        | -     | -    | -        |

|        |             |      |                |
|--------|-------------|------|----------------|
| C2-113 | 5:8:9:12:18 | 1.15 | E1,C2,D2,G2,D3 |
| X      |             |      |                |
| N      | O           |      |                |
| O      |             |      |                |
| O      |             |      |                |
| N      | O           |      |                |
| O      |             |      |                |
|        | -           | -    | -              |

|        |                 |       |                   |
|--------|-----------------|-------|-------------------|
| C2-114 | 5:8:12:16:20:20 | 1.142 | E1,C2,G2,C3,E3,E3 |
| O      |                 |       |                   |
| N      |                 | O     |                   |
| N      |                 | O     |                   |
| N      |                 | O     |                   |
| N      | O               |       |                   |
| O      |                 |       |                   |
|        | -               | -     | -                 |

|        |              |       |                |
|--------|--------------|-------|----------------|
| C2-115 | 5:8:10:12:18 | 1.128 | E1,C2,E2,G2,D3 |
| X      |              |       |                |
| N      | O            |       |                |
| O      |              |       |                |
| N      | O            |       |                |
| N      |              | O     |                |
| O      |              |       |                |
|        | -            | -     | -              |

|        |              |       |                 |   |
|--------|--------------|-------|-----------------|---|
| C2-116 | 5:8:10:14:16 | 1.118 | E1,C2,E2,A#3,C3 |   |
| X      |              |       |                 |   |
| N      | O            |       |                 |   |
| N      |              | O     |                 |   |
| N      |              | O     |                 |   |
| N      |              | O     |                 |   |
| O      |              |       |                 |   |
|        | -            | -     | -               | - |

|        |              |       |                 |   |
|--------|--------------|-------|-----------------|---|
| C2-117 | 5:8:10:14:18 | 1.104 | E1,C2,E2,A#3,D3 |   |
| X      |              |       |                 |   |
| N      |              | O     |                 |   |
| N      |              | O     |                 |   |
| N      | O            |       |                 |   |
| N      |              | O     |                 |   |
| O      |              |       |                 |   |
|        | -            | -     | -               | - |

|        |              |       |                |   |
|--------|--------------|-------|----------------|---|
| C2-118 | 5:8:12:12:18 | 1.094 | E1,C2,G2,G2,D3 |   |
| X      |              |       |                |   |
| N      |              | O     |                |   |
| O      |              |       |                |   |
| N      |              |       | O              |   |
| N      |              | O     |                |   |
| O      |              |       |                |   |
|        | -            | -     | -              | - |

|        |             |       |                |   |
|--------|-------------|-------|----------------|---|
| C2-119 | 6:8:9:12:18 | 1.083 | G1,C2,D2,G2,D3 |   |
| X      |             |       |                |   |
| N      |             | O     |                |   |
| O      |             |       |                |   |
| O      |             |       |                |   |
| N      |             | O     |                |   |
| N      |             | O     |                |   |
|        | -           | -     | -              | - |

|        |              |       |                 |   |
|--------|--------------|-------|-----------------|---|
| C2-120 | 5:8:12:14:18 | 1.071 | E1,C2,G2,A#3,D3 |   |
| X      |              |       |                 |   |
| N      |              | O     |                 |   |
| N      |              | O     |                 |   |
| N      |              |       | O               |   |
| N      |              | O     |                 |   |
| O      |              |       |                 |   |
|        | -            | -     | -               | - |

|        |              |       |                 |   |   |  |   |  |  |   |  |
|--------|--------------|-------|-----------------|---|---|--|---|--|--|---|--|
| C2-121 | 5:8:12:14:20 | 1.059 | E1,C2,G2,A#3,E3 |   |   |  |   |  |  |   |  |
| X      |              |       |                 |   |   |  |   |  |  |   |  |
| N      |              |       |                 | O |   |  |   |  |  |   |  |
| N      |              | O     |                 | O |   |  |   |  |  |   |  |
| N      |              |       |                 |   |   |  |   |  |  |   |  |
| N      |              | O     |                 |   |   |  |   |  |  |   |  |
| O      |              |       |                 |   |   |  |   |  |  |   |  |
|        | -            |       | -               |   | - |  | - |  |  | - |  |

|        |              |       |                |   |   |  |   |  |  |   |  |
|--------|--------------|-------|----------------|---|---|--|---|--|--|---|--|
| C2-122 | 5:8:12:16:18 | 1.053 | E1,C2,G2,C3,D3 |   |   |  |   |  |  |   |  |
| X      |              |       |                |   |   |  |   |  |  |   |  |
| N      |              | O     |                |   |   |  |   |  |  |   |  |
| N      |              |       |                | O |   |  |   |  |  |   |  |
| N      |              |       |                | O |   |  |   |  |  |   |  |
| N      |              | O     |                |   |   |  |   |  |  |   |  |
| O      |              |       |                |   |   |  |   |  |  |   |  |
|        | -            |       | -              |   | - |  | - |  |  | - |  |

|        |          |       |             |  |   |  |   |  |  |   |  |
|--------|----------|-------|-------------|--|---|--|---|--|--|---|--|
| C2-123 | 5:8:9:12 | 1.039 | E1,C2,D2,G2 |  |   |  |   |  |  |   |  |
| X      |          |       |             |  |   |  |   |  |  |   |  |
| X      |          |       |             |  |   |  |   |  |  |   |  |
| O      |          |       |             |  |   |  |   |  |  |   |  |
| O      |          |       |             |  |   |  |   |  |  |   |  |
| N      |          | O     |             |  |   |  |   |  |  |   |  |
| O      |          |       |             |  |   |  |   |  |  |   |  |
|        | -        |       | -           |  | - |  | - |  |  | - |  |

|        |           |       |             |  |   |  |   |  |  |   |  |
|--------|-----------|-------|-------------|--|---|--|---|--|--|---|--|
| C2-124 | 5:8:10:12 | 1.017 | E1,C2,E2,G2 |  |   |  |   |  |  |   |  |
| X      |           |       |             |  |   |  |   |  |  |   |  |
| X      |           |       |             |  |   |  |   |  |  |   |  |
| O      |           |       |             |  |   |  |   |  |  |   |  |
| N      | O         |       |             |  |   |  |   |  |  |   |  |
| N      |           | O     |             |  |   |  |   |  |  |   |  |
| O      |           |       |             |  |   |  |   |  |  |   |  |
|        | -         |       | -           |  | - |  | - |  |  | - |  |

|        |           |       |              |  |   |  |   |  |  |   |  |
|--------|-----------|-------|--------------|--|---|--|---|--|--|---|--|
| C2-125 | 5:8:10:14 | 0.993 | E1,C2,E2,A#3 |  |   |  |   |  |  |   |  |
| X      |           |       |              |  |   |  |   |  |  |   |  |
| X      |           |       |              |  |   |  |   |  |  |   |  |
| N      |           | O     |              |  |   |  |   |  |  |   |  |
| N      | O         |       |              |  |   |  |   |  |  |   |  |
| N      |           | O     |              |  |   |  |   |  |  |   |  |
| O      |           |       |              |  |   |  |   |  |  |   |  |
|        | -         |       | -            |  | - |  | - |  |  | - |  |

|        |                 |       |                   |
|--------|-----------------|-------|-------------------|
| C2-126 | 8:10:9:12:24:30 | 0.989 | C2,E2,D2,G2,G3,B4 |
| N      |                 | O     |                   |
| N      |                 | O     |                   |
| O      |                 |       |                   |
| O      |                 |       |                   |
| N      |                 | O     |                   |
| N      |                 | O     |                   |
|        | -               | -     | -                 |

|        |           |       |             |
|--------|-----------|-------|-------------|
| C2-127 | 5:8:12:12 | 0.983 | E1,C2,G2,G2 |
| X      |           |       |             |
| X      |           |       |             |
| O      |           |       |             |
| N      |           | O     |             |
| N      | O         |       |             |
| O      |           |       |             |
|        | -         | -     | -           |

|        |           |       |             |
|--------|-----------|-------|-------------|
| C2-128 | 5:8:10:16 | 0.975 | E1,C2,E2,C3 |
| X      |           |       |             |
| X      |           |       |             |
| N      |           | O     |             |
| N      | O         |       |             |
| N      |           | O     |             |
| O      |           |       |             |
|        | -         | -     | -           |

|        |          |       |             |
|--------|----------|-------|-------------|
| C2-129 | 6:8:9:12 | 0.972 | G1,C2,D2,G2 |
| X      |          |       |             |
| X      |          |       |             |
| O      |          |       |             |
| O      |          |       |             |
| N      |          | O     |             |
| N      |          | O     |             |
|        | -        | -     | -           |

|        |           |      |              |
|--------|-----------|------|--------------|
| C2-130 | 5:8:12:14 | 0.96 | E1,C2,G2,A#3 |
| X      |           |      |              |
| X      |           |      |              |
| N      |           | O    |              |
| N      |           | O    |              |
| N      |           | O    |              |
| O      |           |      |              |
|        | -         | -    | -            |

|        |             |       |                |   |  |   |   |   |  |  |   |
|--------|-------------|-------|----------------|---|--|---|---|---|--|--|---|
| C2-131 | 8:9:9:12:24 | 0.944 | C2,D2,D2,G2,G3 |   |  |   |   |   |  |  |   |
| X      |             |       |                |   |  |   |   |   |  |  |   |
| N      |             |       |                |   |  |   | O |   |  |  |   |
| O      |             |       |                |   |  |   |   |   |  |  |   |
| O      |             |       |                |   |  |   |   |   |  |  |   |
| N      |             |       |                | O |  |   | O |   |  |  |   |
| N      |             |       |                |   |  |   | O |   |  |  |   |
|        |             | -     |                | - |  | - |   | - |  |  | - |

|        |           |       |             |   |  |   |  |   |  |  |   |
|--------|-----------|-------|-------------|---|--|---|--|---|--|--|---|
| C2-132 | 5:8:12:16 | 0.942 | E1,C2,G2,C3 |   |  |   |  |   |  |  |   |
| X      |           |       |             |   |  |   |  |   |  |  |   |
| X      |           |       |             |   |  |   |  |   |  |  |   |
| N      |           |       |             | O |  |   |  |   |  |  |   |
| N      |           |       |             | O |  |   |  |   |  |  |   |
| N      |           | O     |             |   |  |   |  |   |  |  |   |
| O      |           |       |             |   |  |   |  |   |  |  |   |
|        |           | -     |             | - |  | - |  | - |  |  | - |

|        |          |       |              |   |   |   |  |   |  |  |   |
|--------|----------|-------|--------------|---|---|---|--|---|--|--|---|
| C2-133 | 7:8:9:12 | 0.925 | A#2,C2,D2,G2 |   |   |   |  |   |  |  |   |
| X      |          |       |              |   |   |   |  |   |  |  |   |
| X      |          |       |              |   |   |   |  |   |  |  |   |
| O      |          |       |              |   |   |   |  |   |  |  |   |
| O      |          |       |              |   |   |   |  |   |  |  |   |
| N      |          | O     |              |   |   |   |  |   |  |  |   |
| N      |          |       |              |   | O |   |  |   |  |  |   |
|        |          | -     |              | - |   | - |  | - |  |  | - |

|        |              |       |                |   |  |   |   |   |  |  |   |
|--------|--------------|-------|----------------|---|--|---|---|---|--|--|---|
| C2-134 | 8:10:9:12:24 | 0.922 | C2,E2,D2,G2,G3 |   |  |   |   |   |  |  |   |
| X      |              |       |                |   |  |   |   |   |  |  |   |
| N      |              |       |                |   |  |   | O |   |  |  |   |
| O      |              |       |                |   |  |   |   |   |  |  |   |
| O      |              |       |                |   |  |   |   |   |  |  |   |
| N      |              |       |                |   |  | O | O |   |  |  |   |
| N      |              |       |                |   |  |   | O |   |  |  |   |
|        |              | -     |                | - |  | - |   | - |  |  | - |

|        |             |       |                |   |  |   |   |   |  |  |   |
|--------|-------------|-------|----------------|---|--|---|---|---|--|--|---|
| C2-135 | 8:9:9:18:24 | 0.889 | C2,D2,D2,D3,G3 |   |  |   |   |   |  |  |   |
| X      |             |       |                |   |  |   |   |   |  |  |   |
| N      |             |       |                |   |  |   | O |   |  |  |   |
| N      |             |       |                |   |  | O |   |   |  |  |   |
| O      |             |       |                |   |  |   |   |   |  |  |   |
| N      |             |       |                | O |  |   | O |   |  |  |   |
| N      |             |       |                |   |  |   | O |   |  |  |   |
|        |             | -     |                | - |  | - |   | - |  |  | - |



|        |              |       |                |
|--------|--------------|-------|----------------|
| C2-136 | 8:12:9:12:24 | 0.889 | C2,G2,D2,G2,G3 |
| X      |              |       |                |
| N      |              |       | O              |
| O      |              |       |                |
| O      |              |       |                |
| N      |              |       | O              |
| N      |              |       | O              |

| C2-141 | 8:9:12:18:24 | 0.833 | C2,D2,G2,D3,G3 |   |  |  |   |   |  |  |  |
|--------|--------------|-------|----------------|---|--|--|---|---|--|--|--|
| X      |              |       |                |   |  |  |   |   |  |  |  |
| N      |              |       |                |   |  |  |   | O |  |  |  |
| N      |              |       |                |   |  |  | O |   |  |  |  |
| N      |              |       |                | O |  |  |   |   |  |  |  |
| N      |              |       |                | O |  |  |   |   |  |  |  |
| N      |              |       |                |   |  |  | O |   |  |  |  |
|        |              |       |                |   |  |  |   |   |  |  |  |
|        |              |       |                |   |  |  |   |   |  |  |  |

| C2-142 | 8:9:12:18:24 | 0.833 | C2,D2,G2,D3,G3 |  |  |  |  |  |  |  |  |
|--------|--------------|-------|----------------|--|--|--|--|--|--|--|--|
| N      |              |       | O              |  |  |  |  |  |  |  |  |
| N      |              |       | O              |  |  |  |  |  |  |  |  |
| O      |              |       |                |  |  |  |  |  |  |  |  |
| O      |              |       |                |  |  |  |  |  |  |  |  |
| N      |              |       | O              |  |  |  |  |  |  |  |  |
| X      |              |       |                |  |  |  |  |  |  |  |  |
|        |              |       |                |  |  |  |  |  |  |  |  |
|        |              |       |                |  |  |  |  |  |  |  |  |

| C2-143 | 8:12:9:12 | 0.806 | C2,G2,D2,G2 |  |  |  |   |  |   |  |  |
|--------|-----------|-------|-------------|--|--|--|---|--|---|--|--|
| X      |           |       |             |  |  |  |   |  |   |  |  |
| X      |           |       |             |  |  |  |   |  |   |  |  |
| O      |           |       |             |  |  |  |   |  |   |  |  |
| O      |           |       |             |  |  |  |   |  |   |  |  |
| N      |           |       |             |  |  |  |   |  | O |  |  |
| N      |           |       |             |  |  |  | O |  |   |  |  |
|        |           |       |             |  |  |  |   |  |   |  |  |
|        |           |       |             |  |  |  |   |  |   |  |  |

| C2-144 | 8:9:9:18 | 0.806 | C2,D2,D2,D3 |   |  |  |   |  |  |  |  |
|--------|----------|-------|-------------|---|--|--|---|--|--|--|--|
| X      |          |       |             |   |  |  |   |  |  |  |  |
| X      |          |       |             |   |  |  |   |  |  |  |  |
| N      |          |       |             |   |  |  | O |  |  |  |  |
| O      |          |       |             |   |  |  |   |  |  |  |  |
| N      |          |       |             | O |  |  |   |  |  |  |  |
| N      |          |       |             |   |  |  | O |  |  |  |  |
|        |          |       |             |   |  |  |   |  |  |  |  |
|        |          |       |             |   |  |  |   |  |  |  |  |

| C2-145 | 8:10:9:18 | 0.783 | C2,E2,D2,D3 |  |  |  |   |   |  |  |  |
|--------|-----------|-------|-------------|--|--|--|---|---|--|--|--|
| X      |           |       |             |  |  |  |   |   |  |  |  |
| X      |           |       |             |  |  |  |   |   |  |  |  |
| N      |           |       |             |  |  |  | O |   |  |  |  |
| O      |           |       |             |  |  |  |   |   |  |  |  |
| N      |           |       |             |  |  |  | O |   |  |  |  |
| N      |           |       |             |  |  |  |   | O |  |  |  |
|        |           |       |             |  |  |  |   |   |  |  |  |
|        |           |       |             |  |  |  |   |   |  |  |  |

|        |           |      |             |  |   |   |   |   |   |  |   |
|--------|-----------|------|-------------|--|---|---|---|---|---|--|---|
| C2-146 | 8:9:12:18 | 0.75 | C2,D2,G2,D3 |  |   |   |   |   |   |  |   |
| X      |           |      |             |  |   |   |   |   |   |  |   |
| X      |           |      |             |  |   |   |   |   |   |  |   |
| N      |           |      |             |  |   |   | O |   |   |  |   |
| N      |           |      |             |  |   | O |   |   |   |  |   |
| N      |           |      |             |  |   | O |   | O |   |  |   |
|        |           |      | -           |  | - |   | - |   | - |  | - |

|        |           |      |             |  |   |  |   |  |   |   |   |
|--------|-----------|------|-------------|--|---|--|---|--|---|---|---|
| C2-147 | 8:12:9:18 | 0.75 | C2,G2,D2,D3 |  |   |  |   |  |   |   |   |
| X      |           |      |             |  |   |  |   |  |   |   |   |
| X      |           |      |             |  |   |  |   |  |   |   |   |
| N      |           |      |             |  |   |  | O |  |   |   |   |
| O      |           |      |             |  |   |  |   |  |   | O |   |
| N      |           |      |             |  |   |  |   |  | O |   |   |
| N      |           |      |             |  |   |  | O |  |   |   |   |
|        |           |      | -           |  | - |  | - |  | - |   | - |

|        |           |      |             |  |   |  |   |  |   |  |   |
|--------|-----------|------|-------------|--|---|--|---|--|---|--|---|
| C2-148 | 8:9:12:18 | 0.75 | C2,D2,G2,D3 |  |   |  |   |  |   |  |   |
| X      |           |      |             |  |   |  |   |  |   |  |   |
| N      |           |      | O           |  |   |  |   |  |   |  |   |
| O      |           |      |             |  |   |  |   |  |   |  |   |
| O      |           |      |             |  |   |  |   |  |   |  |   |
| N      |           |      | O           |  |   |  |   |  |   |  |   |
| X      |           |      |             |  |   |  |   |  |   |  |   |
|        |           |      | -           |  | - |  | - |  | - |  | - |

| C#2-1 | 2:3:4 | 2.167 | G#1,C#2,G#2,C#3 |  |   |  |  |  |  |  |  |
|-------|-------|-------|-----------------|--|---|--|--|--|--|--|--|
| X     |       |       |                 |  |   |  |  |  |  |  |  |
| X     |       |       |                 |  |   |  |  |  |  |  |  |
| N     |       |       |                 |  | O |  |  |  |  |  |  |
| N     |       |       |                 |  | O |  |  |  |  |  |  |
| N     |       |       | O               |  |   |  |  |  |  |  |  |
| X     |       |       |                 |  |   |  |  |  |  |  |  |
|       |       |       |                 |  |   |  |  |  |  |  |  |
|       |       |       |                 |  |   |  |  |  |  |  |  |

| C#2-2 | 2:3:4 | 2.167 | C#2,G#2,C#3 |  |  |  |  |   |  |   |  |
|-------|-------|-------|-------------|--|--|--|--|---|--|---|--|
| X     |       |       |             |  |  |  |  |   |  |   |  |
| X     |       |       |             |  |  |  |  |   |  |   |  |
| N     |       |       |             |  |  |  |  |   |  |   |  |
| N     |       |       |             |  |  |  |  |   |  | O |  |
| N     |       |       |             |  |  |  |  |   |  | O |  |
| N     |       |       |             |  |  |  |  | O |  |   |  |
| N     |       |       |             |  |  |  |  |   |  |   |  |
|       |       |       |             |  |  |  |  |   |  |   |  |
|       |       |       |             |  |  |  |  |   |  |   |  |

| C#2-3 | 3:4:6:8:9:12 | 2.139 | G#1,C#2,G#2,C#3,D#3,G#3 |  |   |  |  |  |  |  |  |
|-------|--------------|-------|-------------------------|--|---|--|--|--|--|--|--|
| N     |              |       | O                       |  |   |  |  |  |  |  |  |
| N     |              |       | O                       |  |   |  |  |  |  |  |  |
| N     |              |       |                         |  | O |  |  |  |  |  |  |
| N     |              |       |                         |  | O |  |  |  |  |  |  |
| N     |              |       | O                       |  |   |  |  |  |  |  |  |
| N     |              |       | O                       |  |   |  |  |  |  |  |  |
|       |              |       |                         |  |   |  |  |  |  |  |  |
|       |              |       |                         |  |   |  |  |  |  |  |  |

| C#2-4 | 3:4:6:8:9 | 1.972 | G#1,C#2,G#2,C#3,D#3 |  |   |  |  |  |  |  |  |
|-------|-----------|-------|---------------------|--|---|--|--|--|--|--|--|
| X     |           |       |                     |  |   |  |  |  |  |  |  |
| N     |           |       | O                   |  |   |  |  |  |  |  |  |
| N     |           |       |                     |  | O |  |  |  |  |  |  |
| N     |           |       |                     |  | O |  |  |  |  |  |  |
| N     |           |       | O                   |  |   |  |  |  |  |  |  |
| N     |           |       | O                   |  |   |  |  |  |  |  |  |
|       |           |       |                     |  |   |  |  |  |  |  |  |
|       |           |       |                     |  |   |  |  |  |  |  |  |

| C#2-5 | 4:6:8:9 | 1.306 | C#2,G#2,C#3,D#3 |  |  |  |   |   |  |   |  |
|-------|---------|-------|-----------------|--|--|--|---|---|--|---|--|
| X     |         |       |                 |  |  |  |   |   |  |   |  |
| X     |         |       |                 |  |  |  |   |   |  |   |  |
| N     |         |       |                 |  |  |  | O |   |  |   |  |
| N     |         |       |                 |  |  |  |   |   |  | O |  |
| N     |         |       |                 |  |  |  |   |   |  | O |  |
| N     |         |       |                 |  |  |  |   | O |  |   |  |
|       |         |       |                 |  |  |  |   |   |  |   |  |
|       |         |       |                 |  |  |  |   |   |  |   |  |

|       |          |       |                 |   |  |   |  |   |  |  |  |  |   |
|-------|----------|-------|-----------------|---|--|---|--|---|--|--|--|--|---|
| C#2-6 | 6:8:9:12 | 0.972 | G#1,C#2,D#2,G#2 |   |  |   |  |   |  |  |  |  |   |
| X     |          |       |                 |   |  |   |  |   |  |  |  |  |   |
| X     |          |       |                 |   |  |   |  |   |  |  |  |  |   |
| N     | O        |       |                 |   |  |   |  |   |  |  |  |  |   |
| N     | O        |       |                 |   |  |   |  |   |  |  |  |  |   |
| N     |          |       |                 | O |  |   |  |   |  |  |  |  |   |
| N     |          |       |                 | O |  |   |  |   |  |  |  |  |   |
|       |          | -     |                 | - |  | - |  | - |  |  |  |  | - |

|       |         |      |                 |   |  |   |  |   |  |  |  |  |   |
|-------|---------|------|-----------------|---|--|---|--|---|--|--|--|--|---|
| C#2-7 | 3:4:6:8 | 1.75 | G#1,C#2,G#2,C#3 |   |  |   |  |   |  |  |  |  |   |
| X     |         |      |                 |   |  |   |  |   |  |  |  |  |   |
| X     |         |      |                 |   |  |   |  |   |  |  |  |  |   |
| N     |         |      |                 |   |  | O |  |   |  |  |  |  |   |
| N     |         |      |                 |   |  | O |  |   |  |  |  |  |   |
| N     |         |      |                 | O |  |   |  |   |  |  |  |  |   |
| N     |         |      |                 | O |  |   |  |   |  |  |  |  |   |
|       |         | -    |                 | - |  | - |  | - |  |  |  |  | - |

|       |            |       |                     |   |  |   |  |   |  |  |  |  |   |
|-------|------------|-------|---------------------|---|--|---|--|---|--|--|--|--|---|
| C#2-8 | 4:6:8:9:12 | 1.472 | C#2,G#2,C#3,D#3,G#3 |   |  |   |  |   |  |  |  |  |   |
| N     |            |       |                     | O |  |   |  |   |  |  |  |  |   |
| N     |            |       |                     | O |  |   |  |   |  |  |  |  |   |
| N     |            |       |                     |   |  | O |  |   |  |  |  |  |   |
| N     |            |       |                     |   |  | O |  |   |  |  |  |  |   |
| N     |            |       |                     | O |  |   |  |   |  |  |  |  |   |
| X     |            |       |                     |   |  |   |  |   |  |  |  |  |   |
|       |            | -     |                     | - |  | - |  | - |  |  |  |  | - |

|       |         |       |                 |   |  |   |  |   |  |  |  |  |   |
|-------|---------|-------|-----------------|---|--|---|--|---|--|--|--|--|---|
| C#2-9 | 4:6:8:9 | 1.306 | C#2,G#2,C#3,D#3 |   |  |   |  |   |  |  |  |  |   |
| X     |         |       |                 |   |  |   |  |   |  |  |  |  |   |
| N     |         |       |                 | O |  |   |  |   |  |  |  |  |   |
| N     |         |       |                 |   |  | O |  |   |  |  |  |  |   |
| N     |         |       |                 |   |  | O |  |   |  |  |  |  |   |
| N     |         |       |                 | O |  |   |  |   |  |  |  |  |   |
| X     |         |       |                 |   |  |   |  |   |  |  |  |  |   |
|       |         | -     |                 | - |  | - |  | - |  |  |  |  | - |

| D2-1 | 2:2:4:5 | 2.9 | D2,D2,D3,F#3 |   |   |   |   |
|------|---------|-----|--------------|---|---|---|---|
| X    |         |     |              |   |   |   |   |
| N    |         |     |              |   | O |   |   |
| N    |         |     |              |   | O |   |   |
| O    |         |     |              |   |   |   |   |
| N    |         |     |              | O |   |   |   |
| X    |         |     |              |   |   |   |   |
|      | -       | -   | -            | - | - | - | - |

| D2-2 | 2:4:5:8 | 2.15 | D2,D3,F#3,D4 |   |   |   |   |
|------|---------|------|--------------|---|---|---|---|
| N    |         |      |              |   | O |   |   |
| N    |         |      |              |   | O |   |   |
| N    |         |      |              |   | O |   |   |
| O    |         |      |              |   |   |   |   |
| X    |         |      |              |   |   |   |   |
| X    |         |      |              |   |   |   |   |
|      | -       | -    | -            | - | - | - | - |

| D2-3 | 2:4:5 | 1.9 | D2,D3,F#3 |   |   |   |   |
|------|-------|-----|-----------|---|---|---|---|
| X    |       |     |           |   |   |   |   |
| N    |       |     |           |   | O |   |   |
| N    |       |     |           |   | O |   |   |
| O    |       |     |           |   |   |   |   |
| N    |       |     |           |   |   |   |   |
| X    |       |     |           |   |   |   |   |
|      | -     | -   | -         | - | - | - | - |

| D2-4 | 4:5:4:8 | 1.65 | D2,F#2,D2,D3 |   |   |   |   |
|------|---------|------|--------------|---|---|---|---|
| X    |         |      |              |   |   |   |   |
| X    |         |      |              |   |   |   |   |
| N    |         |      |              |   | O |   |   |
| O    |         |      |              |   |   |   |   |
| N    |         |      |              |   |   | O |   |
| N    |         |      |              |   |   | O |   |
|      | -       | -    | -            | - | - | - | - |

| D2-5 | 4:5:4:10 | 1.6 | D2,F#2,D2,F#3 |   |   |   |   |
|------|----------|-----|---------------|---|---|---|---|
| X    |          |     |               |   |   |   |   |
| X    |          |     |               |   |   |   |   |
| N    |          |     |               |   |   | O |   |
| O    |          |     |               |   |   |   |   |
| N    |          |     |               |   | O |   |   |
| N    |          |     |               |   | O |   |   |
|      | -        | -   | -             | - | - | - | - |

|      |          |      |               |  |  |  |   |   |   |
|------|----------|------|---------------|--|--|--|---|---|---|
| D2-7 | 4:5:8:10 | 1.35 | D2,F#2,D3,F#3 |  |  |  |   |   |   |
| X    |          |      |               |  |  |  |   |   |   |
| X    |          |      |               |  |  |  |   |   |   |
| N    |          |      |               |  |  |  |   | O |   |
| N    |          |      |               |  |  |  |   |   | O |
| N    |          |      |               |  |  |  | O |   |   |
| N    |          |      |               |  |  |  |   | O |   |

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|       |       |      |               |   |   |   |   |
|-------|-------|------|---------------|---|---|---|---|
| D2-11 | 4:5:8 | 1.15 | D2,F#2,D3,F#3 |   |   |   |   |
| X     |       |      |               |   |   |   |   |
| X     |       |      |               |   |   |   |   |
| N     |       |      |               |   |   |   |   |
| N     |       |      |               |   |   |   | O |
| N     |       |      |               |   |   | O |   |
| N     |       |      |               |   |   | O |   |
|       |       | -    | -             | - | - |   | - |



| D#2-1 | 2:3:4 | 2.167 | D#2,A#3,D#3 |  |   |   |   |   |   |  |   |
|-------|-------|-------|-------------|--|---|---|---|---|---|--|---|
| X     |       |       |             |  |   |   |   |   |   |  |   |
| X     |       |       |             |  |   |   |   |   |   |  |   |
| N     |       |       |             |  |   |   |   | O |   |  |   |
| N     |       |       |             |  |   |   |   | O |   |  |   |
| N     |       |       |             |  |   | O |   |   |   |  |   |
| X     |       |       |             |  |   |   |   |   |   |  |   |
|       |       |       | -           |  | - |   | - |   | - |  | - |

| D#2-2 | 2:3:4 | 2.167 | D#2,A#3,D#3 |  |   |  |   |  |   |  |   |
|-------|-------|-------|-------------|--|---|--|---|--|---|--|---|
| X     |       |       |             |  |   |  |   |  |   |  |   |
| N     |       |       | O           |  |   |  |   |  |   |  |   |
| N     |       |       | O           |  |   |  |   |  |   |  |   |
| N     | O     |       |             |  |   |  |   |  |   |  |   |
| X     |       |       |             |  |   |  |   |  |   |  |   |
| X     |       |       |             |  |   |  |   |  |   |  |   |
|       |       |       | -           |  | - |  | - |  | - |  | - |

| D#2-3 | 3:4:6:8 | 1.75 | A#2,D#2,A#3,D#3 |  |   |   |   |   |   |  |   |
|-------|---------|------|-----------------|--|---|---|---|---|---|--|---|
| X     |         |      |                 |  |   |   |   |   |   |  |   |
| X     |         |      |                 |  |   |   |   |   |   |  |   |
| N     |         |      |                 |  |   |   |   | O |   |  |   |
| N     |         |      |                 |  |   |   |   | O |   |  |   |
| N     |         |      |                 |  |   | O |   |   |   |  |   |
| N     |         |      |                 |  |   | O |   |   |   |  |   |
|       |         |      | -               |  | - |   | - |   | - |  | - |

|      |           |       |                |   |   |   |
|------|-----------|-------|----------------|---|---|---|
| E2-1 | 2:3:4:3:4 | 3.333 | E2,B3,E3,B3,E3 |   |   |   |
| O    |           |       |                |   |   |   |
| O    |           |       |                |   |   |   |
| N    |           |       |                |   | O |   |
| N    |           |       |                |   | O |   |
| N    |           |       |                | O |   |   |
| X    |           |       |                |   |   |   |
|      | -         | -     | -              | - |   | - |

|      |           |       |                |   |   |   |
|------|-----------|-------|----------------|---|---|---|
| E2-2 | 2:3:4:3:6 | 3.167 | E2,B3,E3,B3,B4 |   |   |   |
| N    |           |       |                | O |   |   |
| O    |           |       |                |   |   |   |
| N    |           |       |                |   | O |   |
| N    |           |       |                |   | O |   |
| N    |           |       |                | O |   |   |
| X    |           |       |                |   |   |   |
|      | -         | -     | -              | - |   | - |

|      |           |       |                 |   |   |   |
|------|-----------|-------|-----------------|---|---|---|
| E2-3 | 2:3:4:5:4 | 3.067 | E2,B3,E3,G#3,E3 |   |   |   |
| O    |           |       |                 |   |   |   |
| N    |           |       |                 |   | O |   |
| N    |           |       |                 |   | O |   |
| N    |           |       |                 |   | O |   |
| N    |           |       |                 | O |   |   |
| X    |           |       |                 |   |   |   |
|      | -         | -     | -               | - |   | - |

|      |           |     |                 |   |   |   |
|------|-----------|-----|-----------------|---|---|---|
| E2-4 | 2:3:4:5:6 | 2.9 | E2,B3,E3,G#3,B4 |   |   |   |
| N    |           |     |                 | O |   |   |
| N    |           |     |                 |   | O |   |
| N    |           |     |                 |   | O |   |
| N    |           |     |                 |   | O |   |
| N    |           |     |                 | O |   |   |
| X    |           |     |                 |   |   |   |
|      | -         | -   | -               | - |   | - |

|      |         |       |             |   |  |   |
|------|---------|-------|-------------|---|--|---|
| E2-5 | 2:3:3:4 | 2.833 | E2,B3,B3,E3 |   |  |   |
| O    |         |       |             |   |  |   |
| O    |         |       |             |   |  |   |
| N    |         | O     |             |   |  |   |
| N    | O       |       |             |   |  |   |
| X    |         |       |             |   |  |   |
| X    |         |       |             |   |  |   |
|      | -       | -     | -           | - |  | - |

|      |         |       |             |   |  |   |   |   |   |  |   |
|------|---------|-------|-------------|---|--|---|---|---|---|--|---|
| E2-6 | 2:3:4:3 | 2.833 | E2,B3,E3,B3 |   |  |   |   |   |   |  |   |
| X    |         |       |             |   |  |   |   |   |   |  |   |
| O    |         |       |             |   |  |   |   |   |   |  |   |
| N    |         |       |             |   |  |   |   |   | O |  |   |
| N    |         |       |             |   |  |   |   |   | O |  |   |
| N    |         |       |             |   |  |   | O |   |   |  |   |
| X    |         |       |             |   |  |   |   |   |   |  |   |
|      |         | -     |             | - |  | - |   | - |   |  | - |

|      |         |       |              |   |  |   |  |   |  |  |   |
|------|---------|-------|--------------|---|--|---|--|---|--|--|---|
| E2-7 | 2:3:3:5 | 2.733 | E2,B3,B3,G#3 |   |  |   |  |   |  |  |   |
| N    |         |       |              | O |  |   |  |   |  |  |   |
| O    |         |       |              |   |  |   |  |   |  |  |   |
| N    |         |       | O            |   |  |   |  |   |  |  |   |
| N    |         | O     |              |   |  |   |  |   |  |  |   |
| X    |         |       |              |   |  |   |  |   |  |  |   |
| X    |         |       |              |   |  |   |  |   |  |  |   |
|      |         | -     |              | - |  | - |  | - |  |  | - |

|      |         |       |             |   |  |   |  |   |  |  |   |
|------|---------|-------|-------------|---|--|---|--|---|--|--|---|
| E2-8 | 2:3:4:4 | 2.667 | E2,B3,E3,E3 |   |  |   |  |   |  |  |   |
| O    |         |       |             |   |  |   |  |   |  |  |   |
| N    |         |       |             | O |  |   |  |   |  |  |   |
| N    |         |       | O           |   |  |   |  |   |  |  |   |
| N    |         | O     |             |   |  |   |  |   |  |  |   |
| X    |         |       |             |   |  |   |  |   |  |  |   |
| X    |         |       |             |   |  |   |  |   |  |  |   |
|      |         | -     |             | - |  | - |  | - |  |  | - |

|      |         |       |              |   |  |   |  |   |   |  |   |
|------|---------|-------|--------------|---|--|---|--|---|---|--|---|
| E2-9 | 2:3:4:5 | 2.567 | E2,B3,E3,G#3 |   |  |   |  |   |   |  |   |
| X    |         |       |              |   |  |   |  |   |   |  |   |
| N    |         |       |              |   |  |   |  |   | O |  |   |
| N    |         |       |              |   |  |   |  |   | O |  |   |
| N    |         |       |              |   |  |   |  |   | O |  |   |
| N    |         |       |              |   |  | O |  |   |   |  |   |
| X    |         |       |              |   |  |   |  |   |   |  |   |
|      |         | -     |              | - |  | - |  | - |   |  | - |

|       |         |       |              |   |   |   |  |   |  |  |   |
|-------|---------|-------|--------------|---|---|---|--|---|--|--|---|
| E2-10 | 2:3:4:5 | 2.567 | E2,B3,E3,G#3 |   |   |   |  |   |  |  |   |
| N     |         |       |              | O |   |   |  |   |  |  |   |
| N     |         |       |              |   | O |   |  |   |  |  |   |
| N     |         |       | O            |   |   |   |  |   |  |  |   |
| N     |         | O     |              |   |   |   |  |   |  |  |   |
| X     |         |       |              |   |   |   |  |   |  |  |   |
| X     |         |       |              |   |   |   |  |   |  |  |   |
|       |         | -     |              | - |   | - |  | - |  |  | - |

|       |             |       |                    |
|-------|-------------|-------|--------------------|
| E2-11 | 3:4:5:6:6:8 | 2.483 | B2,E2,G#2,B3,B3,E3 |
| O     |             |       |                    |
| O     |             |       |                    |
| N     | O           |       |                    |
| N     |             | O     |                    |
| N     |             | O     |                    |
| N     |             | O     |                    |
|       | -           | -     | -                  |

|       |             |     |                    |
|-------|-------------|-----|--------------------|
| E2-12 | 3:4:5:8:6:8 | 2.4 | B2,E2,G#2,E3,B3,E3 |
| O     |             |     |                    |
| O     |             |     |                    |
| N     |             |     | O                  |
| N     |             | O   |                    |
| N     |             | O   |                    |
| N     |             | O   |                    |
|       | -           | -   | -                  |

|       |             |       |                   |
|-------|-------------|-------|-------------------|
| E2-13 | 3:4:6:8:6:8 | 2.333 | B2,E2,B3,E3,B3,E3 |
| O     |             |       |                   |
| O     |             |       |                   |
| N     |             |       | O                 |
| N     |             |       | O                 |
| N     |             | O     |                   |
| N     |             | O     |                   |
|       | -           | -     | -                 |

|       |              |      |                   |
|-------|--------------|------|-------------------|
| E2-14 | 3:4:6:8:6:12 | 2.25 | B2,E2,B3,E3,B3,B4 |
| N     |              |      | O                 |
| O     |              |      |                   |
| N     |              |      | O                 |
| N     |              |      | O                 |
| N     |              | O    |                   |
| N     |              | O    |                   |
|       | -            | -    | -                 |

|       |             |       |                    |
|-------|-------------|-------|--------------------|
| E2-15 | 3:4:6:8:9:8 | 2.222 | B2,E2,B3,E3,F#3,E3 |
| O     |             |       |                    |
| N     |             |       | O                  |
| N     |             |       | O                  |
| N     |             |       | O                  |
| N     |             | O     |                    |
| N     |             | O     |                    |
|       | -           | -     | -                  |

|       |              |     |                    |   |  |   |   |   |   |  |  |   |
|-------|--------------|-----|--------------------|---|--|---|---|---|---|--|--|---|
| E2-16 | 3:4:6:8:10:8 | 2.2 | B2,E2,B3,E3,G#3,E3 |   |  |   |   |   |   |  |  |   |
| O     |              |     |                    |   |  |   |   |   |   |  |  |   |
| N     |              |     |                    |   |  |   |   |   | O |  |  |   |
| N     |              |     |                    |   |  |   |   |   | O |  |  |   |
| N     |              |     |                    |   |  |   |   |   | O |  |  |   |
| N     |              |     |                    |   |  |   | O |   |   |  |  |   |
| N     |              |     |                    |   |  |   | O |   |   |  |  |   |
|       |              | -   |                    | - |  | - |   | - |   |  |  | - |

|       |       |       |          |   |   |   |  |   |  |  |  |   |
|-------|-------|-------|----------|---|---|---|--|---|--|--|--|---|
| E2-17 | 2:3:4 | 2.167 | E2,B3,E3 |   |   |   |  |   |  |  |  |   |
| X     |       |       |          |   |   |   |  |   |  |  |  |   |
| N     |       |       |          | O |   |   |  |   |  |  |  |   |
| N     |       |       |          |   | O |   |  |   |  |  |  |   |
| N     | O     |       |          |   |   |   |  |   |  |  |  |   |
| X     |       |       |          |   |   |   |  |   |  |  |  |   |
| X     |       |       |          |   |   |   |  |   |  |  |  |   |
|       |       | -     |          | - |   | - |  | - |  |  |  | - |

|       |           |      |                 |   |  |   |  |   |  |  |  |   |
|-------|-----------|------|-----------------|---|--|---|--|---|--|--|--|---|
| E2-18 | 3:4:5:6:8 | 2.15 | B2,E2,G#2,B3,E3 |   |  |   |  |   |  |  |  |   |
| O     |           |      |                 |   |  |   |  |   |  |  |  |   |
| O     |           |      |                 |   |  |   |  |   |  |  |  |   |
| N     | O         |      |                 |   |  |   |  |   |  |  |  |   |
| N     |           | O    |                 |   |  |   |  |   |  |  |  |   |
| N     |           | O    |                 |   |  |   |  |   |  |  |  |   |
| X     |           |      |                 |   |  |   |  |   |  |  |  |   |
|       |           | -    |                 | - |  | - |  | - |  |  |  | - |

|       |           |      |                 |   |  |   |   |   |   |  |  |   |
|-------|-----------|------|-----------------|---|--|---|---|---|---|--|--|---|
| E2-19 | 3:4:5:8:6 | 2.15 | B2,E2,G#2,E3,B3 |   |  |   |   |   |   |  |  |   |
| X     |           |      |                 |   |  |   |   |   |   |  |  |   |
| O     |           |      |                 |   |  |   |   |   |   |  |  |   |
| N     |           |      |                 |   |  |   |   |   | O |  |  |   |
| N     |           |      |                 |   |  | O |   |   |   |  |  |   |
| N     |           |      |                 |   |  |   | O |   |   |  |  |   |
| N     |           |      |                 |   |  |   | O |   |   |  |  |   |
|       |           | -    |                 | - |  | - |   | - |   |  |  | - |

|       |              |       |                    |   |  |   |  |   |  |  |  |   |
|-------|--------------|-------|--------------------|---|--|---|--|---|--|--|--|---|
| E2-20 | 3:4:6:8:9:12 | 2.139 | B2,E2,B3,E3,F#3,B4 |   |  |   |  |   |  |  |  |   |
| N     |              |       |                    |   |  | O |  |   |  |  |  |   |
| N     |              |       |                    |   |  | O |  |   |  |  |  |   |
| N     |              |       |                    |   |  |   |  | O |  |  |  |   |
| N     |              |       |                    |   |  |   |  | O |  |  |  |   |
| N     |              |       |                    |   |  | O |  |   |  |  |  |   |
| N     |              |       |                    |   |  | O |  |   |  |  |  |   |
|       |              | -     |                    | - |  | - |  | - |  |  |  | - |

|       |           |       |                  |   |  |   |  |   |  |  |   |
|-------|-----------|-------|------------------|---|--|---|--|---|--|--|---|
| E2-21 | 3:4:5:6:9 | 2.122 | B2,E2,G#2,B3,F#3 |   |  |   |  |   |  |  |   |
| N     | O         |       |                  |   |  |   |  |   |  |  |   |
| O     |           |       |                  |   |  |   |  |   |  |  |   |
| N     | O         |       |                  |   |  |   |  |   |  |  |   |
| N     | O         |       |                  |   |  |   |  |   |  |  |   |
| X     |           |       |                  |   |  |   |  |   |  |  |   |
|       |           | -     |                  | - |  | - |  | - |  |  | - |

|       |               |       |                    |   |  |   |   |   |  |  |   |
|-------|---------------|-------|--------------------|---|--|---|---|---|--|--|---|
| E2-22 | 3:4:6:8:10:12 | 2.117 | B2,E2,B3,E3,G#3,B4 |   |  |   |   |   |  |  |   |
| N     |               |       | O                  |   |  |   |   |   |  |  |   |
| N     |               |       |                    |   |  |   | O |   |  |  |   |
| N     |               |       |                    |   |  |   | O |   |  |  |   |
| N     |               |       |                    |   |  |   | O |   |  |  |   |
| N     |               |       | O                  |   |  |   |   |   |  |  |   |
| N     |               |       | O                  |   |  |   |   |   |  |  |   |
|       |               | -     |                    | - |  | - |   | - |  |  | - |

|       |           |       |                |   |  |   |  |   |  |  |   |
|-------|-----------|-------|----------------|---|--|---|--|---|--|--|---|
| E2-23 | 3:4:6:6:8 | 2.083 | B2,E2,B3,B3,E3 |   |  |   |  |   |  |  |   |
| O     |           |       |                |   |  |   |  |   |  |  |   |
| O     |           |       |                |   |  |   |  |   |  |  |   |
| N     |           |       | O              |   |  |   |  |   |  |  |   |
| N     | O         |       |                |   |  |   |  |   |  |  |   |
| N     | O         |       |                |   |  |   |  |   |  |  |   |
| X     |           |       |                |   |  |   |  |   |  |  |   |
|       |           | -     |                | - |  | - |  | - |  |  | - |

|       |            |       |                 |   |  |   |  |   |  |  |   |
|-------|------------|-------|-----------------|---|--|---|--|---|--|--|---|
| E2-24 | 3:4:6:6:10 | 2.033 | B2,E2,B3,B3,G#3 |   |  |   |  |   |  |  |   |
| N     |            |       | O               |   |  |   |  |   |  |  |   |
| O     |            |       |                 |   |  |   |  |   |  |  |   |
| N     |            |       | O               |   |  |   |  |   |  |  |   |
| N     | O          |       |                 |   |  |   |  |   |  |  |   |
| N     | O          |       |                 |   |  |   |  |   |  |  |   |
| X     |            |       |                 |   |  |   |  |   |  |  |   |
|       |            | -     |                 | - |  | - |  | - |  |  | - |

|       |            |       |                  |   |   |   |  |   |  |  |   |
|-------|------------|-------|------------------|---|---|---|--|---|--|--|---|
| E2-25 | 3:4:5:8:10 | 2.017 | B2,E2,G#2,E3,G#3 |   |   |   |  |   |  |  |   |
| X     |            |       |                  |   |   |   |  |   |  |  |   |
| N     |            |       |                  |   |   |   |  | O |  |  |   |
| N     |            |       |                  |   |   |   |  | O |  |  |   |
| N     |            |       |                  |   | O |   |  |   |  |  |   |
| N     |            |       |                  |   |   | O |  |   |  |  |   |
| N     |            |       |                  |   |   | O |  |   |  |  |   |
|       |            | -     |                  | - |   | - |  | - |  |  | - |

|       |           |     |                |   |  |   |  |   |  |  |   |
|-------|-----------|-----|----------------|---|--|---|--|---|--|--|---|
| E2-26 | 3:4:6:8:8 | 2.0 | B2,E2,B3,E3,E3 |   |  |   |  |   |  |  |   |
| O     |           |     |                |   |  |   |  |   |  |  |   |
| N     |           |     |                | O |  |   |  |   |  |  |   |
| N     |           |     | O              |   |  |   |  |   |  |  |   |
| N     | O         |     |                |   |  |   |  |   |  |  |   |
| N     | O         |     |                |   |  |   |  |   |  |  |   |
| X     |           |     |                |   |  |   |  |   |  |  |   |
|       |           | -   |                | - |  | - |  | - |  |  | - |

|       |           |       |                 |   |  |   |  |   |  |  |   |
|-------|-----------|-------|-----------------|---|--|---|--|---|--|--|---|
| E2-27 | 3:4:6:8:9 | 1.972 | B2,E2,B3,E3,F#3 |   |  |   |  |   |  |  |   |
| N     | O         |       |                 |   |  |   |  |   |  |  |   |
| N     |           |       |                 | O |  |   |  |   |  |  |   |
| N     |           |       | O               |   |  |   |  |   |  |  |   |
| N     | O         |       |                 |   |  |   |  |   |  |  |   |
| N     | O         |       |                 |   |  |   |  |   |  |  |   |
| X     |           |       |                 |   |  |   |  |   |  |  |   |
|       |           | -     |                 | - |  | - |  | - |  |  | - |

|       |            |      |                 |   |  |   |  |   |  |  |   |
|-------|------------|------|-----------------|---|--|---|--|---|--|--|---|
| E2-28 | 3:4:6:8:10 | 1.95 | B2,E2,B3,E3,G#3 |   |  |   |  |   |  |  |   |
| X     |            |      |                 |   |  |   |  |   |  |  |   |
| N     |            |      |                 |   |  |   |  | O |  |  |   |
| N     |            |      |                 |   |  |   |  | O |  |  |   |
| N     |            |      |                 |   |  |   |  | O |  |  |   |
| N     |            |      |                 |   |  | O |  |   |  |  |   |
| N     |            |      |                 |   |  | O |  |   |  |  |   |
|       |            | -    |                 | - |  | - |  | - |  |  | - |

|       |            |      |                 |   |  |   |  |   |  |  |   |
|-------|------------|------|-----------------|---|--|---|--|---|--|--|---|
| E2-29 | 3:4:6:8:10 | 1.95 | B2,E2,B3,E3,G#3 |   |  |   |  |   |  |  |   |
| N     |            |      | O               |   |  |   |  |   |  |  |   |
| N     |            |      | O               | O |  |   |  |   |  |  |   |
| N     |            |      | O               |   |  |   |  |   |  |  |   |
| N     | O          |      |                 |   |  |   |  |   |  |  |   |
| N     | O          |      |                 |   |  |   |  |   |  |  |   |
| X     |            |      |                 |   |  |   |  |   |  |  |   |
|       |            | -    |                 | - |  | - |  | - |  |  | - |

|       |         |      |              |   |   |   |  |   |  |  |   |
|-------|---------|------|--------------|---|---|---|--|---|--|--|---|
| E2-30 | 3:4:5:6 | 1.9p | B2,E2,G#2,B3 |   |   |   |  |   |  |  |   |
| X     |         |      |              |   |   |   |  |   |  |  |   |
| X     |         |      |              |   |   |   |  |   |  |  |   |
| N     |         |      | O            |   | O |   |  |   |  |  |   |
| N     |         |      |              |   |   | O |  |   |  |  |   |
| N     |         |      |              |   |   | O |  |   |  |  |   |
| N     |         |      |              |   |   | O |  |   |  |  |   |
|       |         | -    |              | - |   | - |  | - |  |  | - |

|       |           |       |                 |   |   |   |  |   |  |  |   |
|-------|-----------|-------|-----------------|---|---|---|--|---|--|--|---|
| E2-31 | 4:5:6:6:8 | 1.817 | E2,G#2,B3,B3,E3 |   |   |   |  |   |  |  |   |
| O     |           |       |                 |   |   |   |  |   |  |  |   |
| O     |           |       |                 |   |   |   |  |   |  |  |   |
| N     |           |       | O               |   |   |   |  |   |  |  |   |
| N     |           |       |                 |   | O |   |  |   |  |  |   |
| N     |           |       |                 |   |   | O |  |   |  |  |   |
| X     |           |       |                 |   |   |   |  |   |  |  |   |
|       |           | -     |                 | - |   | - |  | - |  |  | - |

|       |         |      |             |   |  |   |  |   |  |  |   |
|-------|---------|------|-------------|---|--|---|--|---|--|--|---|
| E2-32 | 3:4:6:8 | 1.75 | B2,E2,B3,E3 |   |  |   |  |   |  |  |   |
| X     |         |      |             |   |  |   |  |   |  |  |   |
| N     |         |      |             | O |  |   |  |   |  |  |   |
| N     |         |      | O           |   |  |   |  |   |  |  |   |
| N     | O       |      |             |   |  |   |  |   |  |  |   |
| N     | O       |      |             |   |  |   |  |   |  |  |   |
| X     |         |      |             |   |  |   |  |   |  |  |   |
|       |         | -    |             | - |  | - |  | - |  |  | - |

|       |           |       |                 |   |   |   |  |   |  |  |   |
|-------|-----------|-------|-----------------|---|---|---|--|---|--|--|---|
| E2-33 | 4:5:6:8:8 | 1.733 | E2,G#2,B3,E3,E3 |   |   |   |  |   |  |  |   |
| O     |           |       |                 |   |   |   |  |   |  |  |   |
| N     |           |       |                 | O |   |   |  |   |  |  |   |
| N     |           |       | O               |   |   |   |  |   |  |  |   |
| N     |           |       |                 |   | O |   |  |   |  |  |   |
| N     |           |       |                 |   |   | O |  |   |  |  |   |
| X     |           |       |                 |   |   |   |  |   |  |  |   |
|       |           | -     |                 | - |   | - |  | - |  |  | - |

|       |           |       |                 |   |   |   |  |   |  |  |   |
|-------|-----------|-------|-----------------|---|---|---|--|---|--|--|---|
| E2-34 | 4:5:8:6:8 | 1.733 | E2,G#2,E3,B3,E3 |   |   |   |  |   |  |  |   |
| O     |           |       |                 |   |   |   |  |   |  |  |   |
| O     |           |       |                 |   |   |   |  |   |  |  |   |
| N     |           |       |                 |   |   |   |  | O |  |  |   |
| N     |           |       |                 |   | O |   |  |   |  |  |   |
| N     |           |       |                 |   |   | O |  |   |  |  |   |
| X     |           |       |                 |   |   |   |  |   |  |  |   |
|       |           | -     |                 | - |   | - |  | - |  |  | - |

|       |            |       |                 |   |   |   |  |   |  |  |   |
|-------|------------|-------|-----------------|---|---|---|--|---|--|--|---|
| E2-35 | 4:5:6:6:12 | 1.733 | E2,G#2,B3,B3,B4 |   |   |   |  |   |  |  |   |
| N     |            |       |                 |   |   | O |  |   |  |  |   |
| O     |            |       |                 |   |   |   |  |   |  |  |   |
| N     |            |       | O               |   |   |   |  |   |  |  |   |
| N     |            |       |                 |   | O |   |  |   |  |  |   |
| N     |            |       |                 |   |   | O |  |   |  |  |   |
| X     |            |       |                 |   |   |   |  |   |  |  |   |
|       |            | -     |                 | - |   | - |  | - |  |  | - |



|       |           |       |                  |   |  |   |   |   |  |   |  |  |   |
|-------|-----------|-------|------------------|---|--|---|---|---|--|---|--|--|---|
| E2-36 | 4:5:6:9:8 | 1.706 | E2,G#2,B3,F#3,E3 |   |  |   |   |   |  |   |  |  |   |
| O     |           |       |                  |   |  |   |   |   |  |   |  |  |   |
| N     |           |       |                  |   |  |   | O |   |  |   |  |  |   |
| N     |           |       |                  | O |  |   |   |   |  |   |  |  |   |
| N     |           |       |                  |   |  | O |   |   |  |   |  |  |   |
| N     |           |       |                  |   |  |   | O |   |  |   |  |  |   |
| X     |           |       |                  |   |  |   |   |   |  |   |  |  |   |
|       |           |       |                  | - |  | - |   | - |  | - |  |  | - |

|       |            |       |                  |   |  |   |   |   |  |   |  |  |   |
|-------|------------|-------|------------------|---|--|---|---|---|--|---|--|--|---|
| E2-37 | 4:5:6:8:10 | 1.683 | E2,G#2,B3,E3,G#3 |   |  |   |   |   |  |   |  |  |   |
| N     |            |       |                  | O |  |   |   |   |  |   |  |  |   |
| N     |            |       |                  |   |  | O |   |   |  |   |  |  |   |
| N     |            |       |                  | O |  |   |   |   |  |   |  |  |   |
| N     |            |       |                  |   |  |   | O |   |  |   |  |  |   |
| N     |            |       |                  |   |  |   |   | O |  |   |  |  |   |
| X     |            |       |                  |   |  |   |   |   |  |   |  |  |   |
|       |            |       |                  | - |  | - |   | - |  | - |  |  | - |

|       |            |       |                   |   |  |   |   |   |  |   |  |  |   |
|-------|------------|-------|-------------------|---|--|---|---|---|--|---|--|--|---|
| E2-38 | 4:5:6:9:10 | 1.656 | E2,G#2,B3,F#3,G#3 |   |  |   |   |   |  |   |  |  |   |
| N     |            |       |                   | O |  |   |   |   |  |   |  |  |   |
| N     |            |       |                   |   |  |   | O |   |  |   |  |  |   |
| N     |            |       |                   | O |  |   |   |   |  |   |  |  |   |
| N     |            |       |                   |   |  | O |   |   |  |   |  |  |   |
| N     |            |       |                   |   |  |   | O |   |  |   |  |  |   |
| X     |            |       |                   |   |  |   |   |   |  |   |  |  |   |
|       |            |       |                   | - |  | - |   | - |  | - |  |  | - |

|       |           |       |                  |   |  |   |   |   |  |   |  |  |   |
|-------|-----------|-------|------------------|---|--|---|---|---|--|---|--|--|---|
| E2-39 | 4:5:8:9:8 | 1.622 | E2,G#2,E3,F#3,E3 |   |  |   |   |   |  |   |  |  |   |
| O     |           |       |                  |   |  |   |   |   |  |   |  |  |   |
| N     |           |       |                  |   |  |   | O |   |  |   |  |  |   |
| N     |           |       |                  |   |  |   |   |   |  | O |  |  |   |
| N     |           |       |                  |   |  | O |   |   |  |   |  |  |   |
| N     |           |       |                  |   |  |   | O |   |  |   |  |  |   |
| X     |           |       |                  |   |  |   |   |   |  |   |  |  |   |
|       |           |       |                  | - |  | - |   | - |  | - |  |  | - |

|       |            |     |                  |   |  |   |   |   |  |   |  |  |   |
|-------|------------|-----|------------------|---|--|---|---|---|--|---|--|--|---|
| E2-40 | 4:5:8:10:8 | 1.6 | E2,G#2,E3,G#3,E3 |   |  |   |   |   |  |   |  |  |   |
| O     |            |     |                  |   |  |   |   |   |  |   |  |  |   |
| N     |            |     |                  |   |  |   |   |   |  | O |  |  |   |
| N     |            |     |                  |   |  |   |   |   |  | O |  |  |   |
| N     |            |     |                  |   |  | O |   |   |  |   |  |  |   |
| N     |            |     |                  |   |  |   | O |   |  |   |  |  |   |
| X     |            |     |                  |   |  |   |   |   |  |   |  |  |   |
|       |            |     |                  | - |  | - |   | - |  | - |  |  | - |

|       |           |       |                 |   |   |   |   |  |   |
|-------|-----------|-------|-----------------|---|---|---|---|--|---|
| E2-41 | 4:6:8:9:8 | 1.556 | E2,B3,E3,F#3,E3 |   |   |   |   |  |   |
| O     |           |       |                 |   |   |   |   |  |   |
| N     |           |       |                 |   |   | O |   |  |   |
| N     |           |       |                 |   |   |   | O |  |   |
| N     |           |       |                 |   |   |   | O |  |   |
| N     |           |       |                 |   |   | O |   |  |   |
| X     |           |       |                 |   |   |   |   |  |   |
|       |           | -     | -               | - | - |   |   |  | - |

|       |         |       |              |   |   |  |   |   |   |
|-------|---------|-------|--------------|---|---|--|---|---|---|
| E2-42 | 4:5:6:8 | 1.483 | E2,G#2,B3,E3 |   |   |  |   |   |   |
| X     |         |       |              |   |   |  |   |   |   |
| X     |         |       |              |   |   |  |   |   |   |
| N     |         |       |              |   |   |  | O |   |   |
| N     |         |       |              |   |   |  | O |   |   |
| N     |         |       |              |   |   |  |   | O |   |
| N     |         |       |              |   |   |  |   |   | O |
|       |         | -     | -            | - | - |  |   |   | - |

|       |         |       |               |   |   |   |  |  |   |
|-------|---------|-------|---------------|---|---|---|--|--|---|
| E2-43 | 4:5:6:9 | 1.456 | E2,G#2,B3,F#3 |   |   |   |  |  |   |
| X     |         |       |               |   |   |   |  |  |   |
| N     |         |       |               |   |   | O |  |  |   |
| N     |         |       | O             |   |   |   |  |  |   |
| N     |         |       |               | O |   | O |  |  |   |
| N     |         |       |               |   | O |   |  |  |   |
| X     |         |       |               |   |   |   |  |  |   |
|       |         | -     | -             | - | - |   |  |  | - |

|       |                |       |                    |   |   |  |  |  |   |
|-------|----------------|-------|--------------------|---|---|--|--|--|---|
| E2-44 | 5:6:8:12:12:16 | 1.442 | G#1,B2,E2,B3,B3,E3 |   |   |  |  |  |   |
| O     |                |       |                    |   |   |  |  |  |   |
| O     |                |       |                    |   |   |  |  |  |   |
| N     |                |       | O                  |   |   |  |  |  |   |
| N     | O              |       |                    |   |   |  |  |  |   |
| N     | O              |       |                    |   |   |  |  |  |   |
| N     |                | O     |                    |   |   |  |  |  |   |
|       |                | -     | -                  | - | - |  |  |  | - |

|       |          |       |               |   |   |  |  |  |   |
|-------|----------|-------|---------------|---|---|--|--|--|---|
| E2-45 | 4:5:6:10 | 1.433 | E2,G#2,B3,G#3 |   |   |  |  |  |   |
| N     |          |       | O             |   |   |  |  |  |   |
| O     |          |       |               |   |   |  |  |  |   |
| N     | O        |       |               |   |   |  |  |  |   |
| N     |          | O     |               |   |   |  |  |  |   |
| X     |          |       |               |   |   |  |  |  |   |
| X     |          |       |               |   |   |  |  |  |   |
|       |          | -     | -             | - | - |  |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| E2-46 | 4:6:6:9 | 1.389 | E2,B3,B3,F#3 |   |   |  |  |  |   |
| N     | O       |       |              |   |   |  |  |  |   |
| O     |         |       |              |   |   |  |  |  |   |
| N     |         | O     |              |   |   |  |  |  |   |
| N     | O       |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |         |       |               |   |   |  |   |  |   |
|-------|---------|-------|---------------|---|---|--|---|--|---|
| E2-47 | 4:5:8:9 | 1.372 | E2,G#2,E3,F#3 |   |   |  |   |  |   |
| X     |         |       |               |   |   |  |   |  |   |
| N     |         |       |               | O |   |  |   |  |   |
| N     |         |       |               |   |   |  | O |  |   |
| N     |         |       | O             |   |   |  |   |  |   |
| N     |         |       |               | O |   |  |   |  |   |
| X     |         |       |               |   |   |  |   |  |   |
|       |         | -     | -             | - | - |  |   |  | - |

|       |          |      |               |   |   |  |   |  |   |
|-------|----------|------|---------------|---|---|--|---|--|---|
| E2-48 | 4:5:8:10 | 1.35 | E2,G#2,E3,G#3 |   |   |  |   |  |   |
| X     |          |      |               |   |   |  |   |  |   |
| N     |          |      |               |   |   |  | O |  |   |
| N     |          |      |               |   |   |  | O |  |   |
| N     |          |      | O             |   |   |  |   |  |   |
| N     |          |      |               | O |   |  |   |  |   |
| X     |          |      |               |   |   |  |   |  |   |
|       |          | -    | -             | - | - |  |   |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| E2-49 | 4:6:8:9 | 1.306 | E2,B3,E3,F#3 |   |   |  |  |  |   |
| N     | O       |       |              |   |   |  |  |  |   |
| N     |         |       | O            |   |   |  |  |  |   |
| N     |         | O     |              |   |   |  |  |  |   |
| N     | O       |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |                 |       |                      |   |   |  |  |  |   |
|-------|-----------------|-------|----------------------|---|---|--|--|--|---|
| E2-50 | 5:8:10:12:16:20 | 1.242 | G#1,E2,G#2,B3,E3,G#3 |   |   |  |  |  |   |
| N     |                 | O     |                      |   |   |  |  |  |   |
| N     |                 |       | O                    |   |   |  |  |  |   |
| N     |                 | O     |                      |   |   |  |  |  |   |
| N     |                 |       |                      | O |   |  |  |  |   |
| N     |                 |       |                      |   | O |  |  |  |   |
| N     |                 | O     |                      |   |   |  |  |  |   |
|       |                 | -     | -                    | - | - |  |  |  | - |

| E2-51 | 5:8:10:12:18:20 | 1.228 | G#1,E2,G#2,B3,F#3,G#3 |   |   |   |   |
|-------|-----------------|-------|-----------------------|---|---|---|---|
| N     |                 |       | O                     |   |   |   |   |
| N     |                 |       |                       |   | O |   |   |
| N     |                 |       | O                     |   |   |   |   |
| N     |                 |       |                       | O |   |   |   |
| N     |                 |       |                       |   | O |   |   |
| N     |                 |       | O                     |   |   |   |   |
|       | -               | -     | -                     | - | - | - | - |

| E2-52 | 4:5:8 | 1.15 | E2,G#2,E3,B3 |   |   |   |   |
|-------|-------|------|--------------|---|---|---|---|
| X     |       |      |              |   |   |   |   |
| X     |       |      |              |   |   |   |   |
| N     |       |      |              |   |   | O |   |
| N     |       |      |              | O |   |   |   |
| N     |       |      |              |   | O |   |   |
| X     |       |      |              |   |   |   |   |
|       | -     | -    | -            | - | - | - | - |

| E2-53 | 5:6:8:12 | 1.15 | G#1,B2,E2,B3 |   |   |   |   |
|-------|----------|------|--------------|---|---|---|---|
| X     |          |      |              |   |   |   |   |
| X     |          |      |              |   |   |   |   |
| N     |          |      | O            |   |   |   |   |
| N     | O        |      |              |   |   |   |   |
| N     | O        |      |              |   |   |   |   |
| N     |          | O    |              |   |   |   |   |
|       | -        | -    | -            | - | - | - | - |

| E2-54 | 5:8:9:12:18 | 1.15 | G#1,E2,F#2,B3,F#3 |   |   |   |   |
|-------|-------------|------|-------------------|---|---|---|---|
| X     |             |      |                   |   |   |   |   |
| N     |             |      |                   |   | O |   |   |
| N     |             |      | O                 |   |   |   |   |
| N     |             |      | O                 |   |   |   |   |
| N     |             |      |                   |   | O |   |   |
| N     |             | O    |                   |   |   |   |   |
|       | -           | -    | -                 | - | - | - | - |

| E2-55 | 5:8:10:12:16 | 1.142 | G#1,E2,G#2,B3,E3 |   |   |   |   |
|-------|--------------|-------|------------------|---|---|---|---|
| X     |              |       |                  |   |   |   |   |
| N     |              |       |                  | O |   |   |   |
| N     |              |       | O                |   |   |   |   |
| N     |              |       |                  | O |   |   |   |
| N     |              |       |                  |   | O |   |   |
| N     |              | O     |                  |   |   |   |   |
|       | -            | -     | -                | - | - | - | - |

|       |              |       |                   |   |   |   |  |  |  |  |  |
|-------|--------------|-------|-------------------|---|---|---|--|--|--|--|--|
| E2-56 | 5:8:10:12:18 | 1.128 | G#1,E2,G#2,B3,F#3 |   |   |   |  |  |  |  |  |
| X     |              |       |                   |   |   |   |  |  |  |  |  |
| N     |              |       |                   |   |   | O |  |  |  |  |  |
| N     |              |       |                   | O |   |   |  |  |  |  |  |
| N     |              |       |                   |   | O |   |  |  |  |  |  |
| N     |              |       |                   |   |   | O |  |  |  |  |  |
| N     |              |       |                   | O |   |   |  |  |  |  |  |
| N     |              |       |                   |   |   |   |  |  |  |  |  |

|       |          |       |               |   |  |   |  |   |  |  |   |  |
|-------|----------|-------|---------------|---|--|---|--|---|--|--|---|--|
| E2-57 | 5:8:9:12 | 1.039 | G#1,E2,F#2,B3 |   |  |   |  |   |  |  |   |  |
| X     |          |       |               |   |  |   |  |   |  |  |   |  |
| X     |          |       |               |   |  |   |  |   |  |  |   |  |
| N     |          |       |               | O |  |   |  |   |  |  |   |  |
| N     |          |       |               | O |  |   |  |   |  |  |   |  |
| N     |          |       |               |   |  | O |  |   |  |  |   |  |
| N     |          |       |               | O |  |   |  |   |  |  |   |  |
|       |          | -     |               | - |  | - |  | - |  |  | - |  |

| E2-58 | 5:8:10:12 | 1.017 | G#1,E2,G#2,B3 |   |  |   |   |   |  |  |   |
|-------|-----------|-------|---------------|---|--|---|---|---|--|--|---|
| X     |           |       |               |   |  |   |   |   |  |  |   |
| X     |           |       |               |   |  |   |   |   |  |  |   |
| N     |           |       | O             |   |  | O |   |   |  |  |   |
| N     |           |       |               |   |  |   | O |   |  |  |   |
| N     |           |       |               |   |  |   |   | O |  |  |   |
| N     |           |       | O             |   |  |   |   |   |  |  |   |
|       |           | -     |               | - |  | - |   | - |  |  | - |

|       |          |       |              |   |  |   |  |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|--|---|--|--|---|
| E2-59 | 6:8:9:12 | 0.972 | B2,E2,F#2,B3 |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
| N     |          |       |              | O |  |   |  |   |  |  |   |
| N     |          |       |              | O |  |   |  |   |  |  |   |
| N     |          |       |              |   |  | O |  |   |  |  |   |
| N     |          |       |              |   |  | O |  |   |  |  |   |
|       |          | -     |              | - |  | - |  | - |  |  | - |

| E2-60 | 8:9:12:18 | 0.75 | E2,F#2,B3,F#3 |   |  |   |  |   |   |   |   |
|-------|-----------|------|---------------|---|--|---|--|---|---|---|---|
| X     |           |      |               |   |  |   |  |   |   |   |   |
| X     |           |      |               |   |  |   |  |   |   |   |   |
| N     |           |      |               |   |  |   |  |   |   | O |   |
| N     |           |      |               |   |  |   |  |   | O |   |   |
| N     |           |      |               |   |  |   |  |   | O |   |   |
| N     |           |      |               |   |  |   |  |   |   |   | O |
|       |           | -    |               | - |  | - |  | - |   |   | - |

|       |           |      |               |   |  |   |
|-------|-----------|------|---------------|---|--|---|
| E2-61 | 8:9:12:18 | 0.75 | E2,F#2,B3,F#3 |   |  |   |
| X     |           |      |               |   |  |   |
| N     |           |      | O             |   |  |   |
| N     |           | O    |               |   |  |   |
| N     |           | O    |               |   |  |   |
| N     |           |      | O             |   |  |   |
| X     |           |      |               |   |  |   |
|       | -         | -    | -             | - |  | - |

| F2-1 | 2:3:4:5:6 | 2.9 | F2,C3,F3,A4,C4 |   |  |   |   |   |  |   |
|------|-----------|-----|----------------|---|--|---|---|---|--|---|
| N    |           |     |                |   |  |   | O |   |  |   |
| N    |           |     |                |   |  |   |   | O |  |   |
| N    |           |     |                |   |  |   |   | O |  |   |
| N    |           |     |                |   |  |   |   | O |  |   |
| N    |           |     |                |   |  |   | O |   |  |   |
| X    |           |     |                |   |  |   |   |   |  |   |
|      |           | -   |                | - |  | - |   | - |  | - |

| F2-2 | 2:3:4:5:7 | 2.852 | F2,C3,F3,A4,D#4 |   |  |   |   |   |   |   |
|------|-----------|-------|-----------------|---|--|---|---|---|---|---|
| N    |           |       |                 |   |  |   |   |   | O |   |
| N    |           |       |                 |   |  |   |   | O |   |   |
| N    |           |       |                 |   |  |   |   | O |   |   |
| N    |           |       |                 |   |  |   |   | O |   |   |
| N    |           |       |                 |   |  |   | O |   |   |   |
| X    |           |       |                 |   |  |   |   |   |   |   |
|      |           | -     |                 | - |  | - |   | - |   | - |

| F2-3 | 2:3:4:5 | 2.567 | F2,C3,F3,A4 |   |  |   |   |   |  |   |
|------|---------|-------|-------------|---|--|---|---|---|--|---|
| X    |         |       |             |   |  |   |   |   |  |   |
| N    |         |       |             |   |  |   |   | O |  |   |
| N    |         |       |             |   |  |   |   | O |  |   |
| N    |         |       |             |   |  |   |   | O |  |   |
| N    |         |       |             |   |  |   | O |   |  |   |
| X    |         |       |             |   |  |   |   |   |  |   |
|      |         | -     |             | - |  | - |   | - |  | - |

| F2-4 | 2:3:4:5 | 2.567 | F2,C3,F3,A4 |   |   |   |  |   |  |   |
|------|---------|-------|-------------|---|---|---|--|---|--|---|
| N    |         |       |             | O |   |   |  |   |  |   |
| N    |         |       |             |   | O |   |  |   |  |   |
| N    |         |       |             | O |   |   |  |   |  |   |
| N    |         | O     |             |   |   |   |  |   |  |   |
| X    |         |       |             |   |   |   |  |   |  |   |
| X    |         |       |             |   |   |   |  |   |  |   |
|      |         | -     |             | - |   | - |  | - |  | - |

| F2-5 | 3:4:6:7:9:12 | 2.174 | C2,F2,C3,D#3,G3,C4 |   |  |   |   |   |  |   |
|------|--------------|-------|--------------------|---|--|---|---|---|--|---|
| N    |              |       |                    |   |  | O |   |   |  |   |
| N    |              |       |                    |   |  | O |   |   |  |   |
| N    |              |       |                    |   |  | O |   |   |  |   |
| N    |              |       |                    |   |  |   | O |   |  |   |
| N    |              |       |                    |   |  | O |   |   |  |   |
| N    |              |       |                    |   |  | O |   |   |  |   |
|      |              | -     |                    | - |  | - |   | - |  | - |

| F2-6 | 2:3:4 | 2.167 | F2,C3,F3 |   |   |   |  |   |  |  |   |
|------|-------|-------|----------|---|---|---|--|---|--|--|---|
| X    |       |       |          |   |   |   |  |   |  |  |   |
| N    |       |       |          |   | O |   |  |   |  |  |   |
| N    |       |       |          | O |   |   |  |   |  |  |   |
| N    |       | O     |          |   |   |   |  |   |  |  |   |
| X    |       |       |          |   |   |   |  |   |  |  |   |
| X    |       |       |          |   |   |   |  |   |  |  |   |
|      |       | -     |          | - |   | - |  | - |  |  | - |

| F2-7 | 3:4:6:7:10:12 | 2.152 | C2,F2,C3,D#3,A4,C4 |   |  |   |  |   |   |  |   |
|------|---------------|-------|--------------------|---|--|---|--|---|---|--|---|
| N    |               |       |                    |   |  | O |  | O |   |  |   |
| N    |               |       |                    |   |  |   |  |   | O |  |   |
| N    |               |       |                    |   |  | O |  |   |   |  |   |
| N    |               |       |                    |   |  |   |  | O |   |  |   |
| N    |               |       |                    |   |  | O |  |   |   |  |   |
| N    |               |       |                    |   |  | O |  |   |   |  |   |
|      |               | -     |                    | - |  | - |  | - |   |  | - |

| F2-8 | 3:4:5:6:8 | 2.15 | C2,F2,A3,C3,F3 |   |  |   |  |   |  |  |   |
|------|-----------|------|----------------|---|--|---|--|---|--|--|---|
| N    | O         |      |                |   |  |   |  |   |  |  |   |
| N    | O         |      |                |   |  |   |  |   |  |  |   |
| N    |           | O    |                |   |  |   |  |   |  |  |   |
| N    |           |      | O              |   |  |   |  |   |  |  |   |
| N    |           | O    |                |   |  |   |  |   |  |  |   |
| X    |           |      |                |   |  |   |  |   |  |  |   |
|      |           | -    |                | - |  | - |  | - |  |  | - |

| F2-9 | 3:4:6:8:9:12 | 2.139 | C2,F2,C3,F3,G3,C4 |   |  |   |  |   |  |  |   |
|------|--------------|-------|-------------------|---|--|---|--|---|--|--|---|
| N    |              |       |                   |   |  | O |  |   |  |  |   |
| N    |              |       |                   |   |  | O |  |   |  |  |   |
| N    |              |       |                   |   |  |   |  | O |  |  |   |
| N    |              |       |                   |   |  |   |  | O |  |  |   |
| N    |              |       |                   |   |  | O |  |   |  |  |   |
| N    |              |       |                   |   |  | O |  |   |  |  |   |
|      |              | -     |                   | - |  | - |  | - |  |  | - |

| F2-10 | 3:4:6:8:10:12 | 2.117 | C2,F2,C3,F3,A4,C4 |   |  |   |  |   |  |  |   |
|-------|---------------|-------|-------------------|---|--|---|--|---|--|--|---|
| N     |               |       |                   |   |  | O |  |   |  |  |   |
| N     |               |       |                   |   |  |   |  | O |  |  |   |
| N     |               |       |                   |   |  |   |  | O |  |  |   |
| N     |               |       |                   |   |  |   |  | O |  |  |   |
| N     |               |       |                   |   |  | O |  |   |  |  |   |
| N     |               |       |                   |   |  | O |  |   |  |  |   |
|       |               | -     |                   | - |  | - |  | - |  |  | - |



|       |            |       |                |   |  |   |   |   |   |   |
|-------|------------|-------|----------------|---|--|---|---|---|---|---|
| F2-11 | 3:4:5:8:10 | 2.017 | C2,F2,A3,F3,A4 |   |  |   |   |   |   |   |
| X     |            |       |                |   |  |   |   |   |   |   |
| N     |            |       |                |   |  |   |   |   | O |   |
| N     |            |       |                |   |  |   |   |   | O |   |
| N     |            |       |                |   |  | O |   |   |   |   |
| N     |            |       |                |   |  |   | O |   |   |   |
| N     |            |       |                |   |  |   | O |   |   |   |
|       |            | -     |                | - |  | - |   | - |   | - |

|       |           |       |                 |   |   |   |  |   |  |   |
|-------|-----------|-------|-----------------|---|---|---|--|---|--|---|
| F2-12 | 3:4:6:7:9 | 2.008 | C2,F2,C3,D#3,G3 |   |   |   |  |   |  |   |
| N     |           |       | O               |   |   |   |  |   |  |   |
| N     |           |       |                 | O |   |   |  |   |  |   |
| N     |           |       |                 |   | O |   |  |   |  |   |
| N     |           |       | O               |   |   |   |  |   |  |   |
| N     |           |       | O               |   |   |   |  |   |  |   |
| X     |           |       |                 |   |   |   |  |   |  |   |
|       |           | -     |                 | - |   | - |  | - |  | - |

|       |           |       |                 |   |  |   |   |   |  |   |
|-------|-----------|-------|-----------------|---|--|---|---|---|--|---|
| F2-13 | 3:4:6:7:9 | 2.008 | C2,F2,C3,D#3,G3 |   |  |   |   |   |  |   |
| X     |           |       |                 |   |  |   |   |   |  |   |
| N     |           |       |                 |   |  |   | O |   |  |   |
| N     |           |       |                 |   |  |   | O |   |  |   |
| N     |           |       |                 |   |  |   |   | O |  |   |
| N     |           |       |                 |   |  |   | O |   |  |   |
| N     |           |       |                 |   |  |   | O |   |  |   |
|       |           | -     |                 | - |  | - |   | - |  | - |

|       |            |       |                 |   |  |   |   |   |   |   |
|-------|------------|-------|-----------------|---|--|---|---|---|---|---|
| F2-14 | 3:4:6:7:10 | 1.986 | C2,F2,C3,D#3,A4 |   |  |   |   |   |   |   |
| X     |            |       |                 |   |  |   |   |   |   |   |
| N     |            |       |                 |   |  |   |   |   | O |   |
| N     |            |       |                 |   |  |   | O |   |   |   |
| N     |            |       |                 |   |  |   |   |   | O |   |
| N     |            |       |                 |   |  |   | O |   |   |   |
| N     |            |       |                 |   |  |   | O |   |   |   |
|       |            | -     |                 | - |  | - |   | - |   | - |

|       |            |       |                 |   |   |   |  |   |  |   |
|-------|------------|-------|-----------------|---|---|---|--|---|--|---|
| F2-15 | 3:4:6:7:10 | 1.985 | C2,F2,C3,D#3,A4 |   |   |   |  |   |  |   |
| N     |            |       |                 | O |   |   |  |   |  |   |
| N     |            |       |                 |   | O |   |  |   |  |   |
| N     |            |       |                 |   |   | O |  |   |  |   |
| N     |            |       | O               |   |   |   |  |   |  |   |
| N     |            |       | O               |   |   |   |  |   |  |   |
| X     |            |       |                 |   |   |   |  |   |  |   |
|       |            | -     |                 | - |   | - |  | - |  | - |

| F2-16 | 3:4:6:8:9 | 1.972 | C2,F2,C3,F3,G3 |   |   |  |   |  |  |   |
|-------|-----------|-------|----------------|---|---|--|---|--|--|---|
| N     |           | O     |                |   |   |  |   |  |  |   |
| N     |           |       |                | O |   |  |   |  |  |   |
| N     |           |       | O              |   |   |  |   |  |  |   |
| N     |           | O     |                |   |   |  |   |  |  |   |
| N     |           | O     |                |   |   |  |   |  |  |   |
| X     |           |       |                |   |   |  |   |  |  |   |
|       | -         |       | -              |   | - |  | - |  |  | - |

| F2-17 | 3:4:6:8:9 | 1.972 | C2,F2,C3,F3,G3 |  |   |   |   |   |  |   |
|-------|-----------|-------|----------------|--|---|---|---|---|--|---|
| X     |           |       |                |  |   |   |   |   |  |   |
| N     |           |       |                |  |   | O |   |   |  |   |
| N     |           |       |                |  |   |   |   | O |  |   |
| N     |           |       |                |  |   |   |   | O |  |   |
| N     |           |       |                |  |   | O |   |   |  |   |
| N     |           |       |                |  |   | O |   |   |  |   |
|       | -         |       | -              |  | - |   | - |   |  | - |

| F2-18 | 3:4:6:8:10 | 1.95 | C2,F2,C3,F3,A4 |  |   |  |   |  |  |   |
|-------|------------|------|----------------|--|---|--|---|--|--|---|
| N     |            | O    |                |  |   |  |   |  |  |   |
| N     |            |      | O              |  |   |  |   |  |  |   |
| N     |            | O    |                |  |   |  |   |  |  |   |
| N     |            | O    |                |  |   |  |   |  |  |   |
| X     |            |      |                |  |   |  |   |  |  |   |
|       | -          |      | -              |  | - |  | - |  |  | - |

| F2-19 | 3:4:6:8:10 | 1.95 | C2,F2,C3,F3,A4 |  |   |   |   |   |  |   |
|-------|------------|------|----------------|--|---|---|---|---|--|---|
| X     |            |      |                |  |   |   |   |   |  |   |
| N     |            |      |                |  |   |   |   | O |  |   |
| N     |            |      |                |  |   |   |   | O |  |   |
| N     |            |      |                |  |   |   |   | O |  |   |
| N     |            |      |                |  |   | O |   |   |  |   |
| N     |            |      |                |  |   | O |   |   |  |   |
|       | -          |      | -              |  | - |   | - |   |  | - |

| F2-20 | 3:4:5:6 | 1.9 | C2,F2,A3,C3 |  |   |   |   |  |  |   |
|-------|---------|-----|-------------|--|---|---|---|--|--|---|
| X     |         |     |             |  |   |   |   |  |  |   |
| X     |         |     |             |  |   |   |   |  |  |   |
| N     |         |     | O           |  |   |   |   |  |  |   |
| N     |         |     |             |  | O |   |   |  |  |   |
| N     |         |     |             |  |   | O |   |  |  |   |
| N     |         |     |             |  |   | O |   |  |  |   |
|       | -       |     | -           |  | - |   | - |  |  | - |

|       |         |     |             |   |  |   |  |   |  |  |   |
|-------|---------|-----|-------------|---|--|---|--|---|--|--|---|
| F2-21 | 3:4:5:6 | 1.9 | C2,F2,A3,C3 |   |  |   |  |   |  |  |   |
| X     |         |     |             |   |  |   |  |   |  |  |   |
| N     | O       |     |             |   |  |   |  |   |  |  |   |
| N     |         | O   |             |   |  |   |  |   |  |  |   |
| N     |         |     | O           |   |  |   |  |   |  |  |   |
| N     |         |     | O           |   |  |   |  |   |  |  |   |
| X     |         |     |             |   |  |   |  |   |  |  |   |
|       |         | -   |             | - |  | - |  | - |  |  | - |

|       |         |       |              |   |  |   |   |   |  |  |   |
|-------|---------|-------|--------------|---|--|---|---|---|--|--|---|
| F2-22 | 3:4:5:7 | 1.852 | C2,F2,A3,D#3 |   |  |   |   |   |  |  |   |
| X     |         |       |              |   |  |   |   |   |  |  |   |
| X     |         |       |              |   |  |   |   |   |  |  |   |
| N     |         |       |              |   |  |   | O |   |  |  |   |
| N     |         |       |              |   |  | O |   |   |  |  |   |
| N     |         |       |              |   |  |   | O |   |  |  |   |
| N     |         |       |              |   |  |   | O |   |  |  |   |
|       |         | -     |              | - |  | - |   | - |  |  | - |

|       |         |       |              |   |  |   |  |   |  |  |   |
|-------|---------|-------|--------------|---|--|---|--|---|--|--|---|
| F2-23 | 3:4:5:7 | 1.852 | C2,F2,A3,D#3 |   |  |   |  |   |  |  |   |
| X     |         |       |              | O |  |   |  |   |  |  |   |
| N     |         | O     |              |   |  |   |  |   |  |  |   |
| N     |         |       | O            |   |  |   |  |   |  |  |   |
| N     |         |       | O            |   |  |   |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
|       |         | -     |              | - |  | - |  | - |  |  | - |

|       |         |       |             |   |  |   |   |   |   |  |   |
|-------|---------|-------|-------------|---|--|---|---|---|---|--|---|
| F2-24 | 3:4:5:8 | 1.817 | C2,F2,A3,F3 |   |  |   |   |   |   |  |   |
| X     |         |       |             |   |  |   |   |   |   |  |   |
| X     |         |       |             |   |  |   |   |   | O |  |   |
| N     |         |       |             |   |  | O |   |   |   |  |   |
| N     |         |       |             |   |  |   | O |   |   |  |   |
| N     |         |       |             |   |  |   | O |   |   |  |   |
|       |         | -     |             | - |  | - |   | - |   |  | - |

|       |         |       |              |   |  |   |  |   |   |  |   |
|-------|---------|-------|--------------|---|--|---|--|---|---|--|---|
| F2-25 | 3:4:6:7 | 1.786 | C2,F2,C3,D#3 |   |  |   |  |   |   |  |   |
| X     |         |       |              |   |  |   |  |   |   |  |   |
| X     |         |       |              |   |  |   |  |   |   |  |   |
| N     |         |       |              |   |  | O |  |   | O |  |   |
| N     |         |       |              |   |  |   |  |   |   |  |   |
| N     |         |       |              |   |  | O |  |   |   |  |   |
| N     |         |       |              |   |  | O |  |   |   |  |   |
|       |         | -     |              | - |  | - |  | - |   |  | - |

|       |         |       |              |   |  |  |   |
|-------|---------|-------|--------------|---|--|--|---|
| F2-26 | 3:4:6:7 | 1.786 | C2,F2,C3,D#3 |   |  |  |   |
| X     |         |       |              |   |  |  |   |
| N     |         | O     |              |   |  |  |   |
| N     |         |       | O            |   |  |  |   |
| N     | O       |       |              |   |  |  |   |
| N     | O       |       |              |   |  |  |   |
| X     |         |       |              |   |  |  |   |
|       | -       | -     | -            | - |  |  | - |

|       |         |      |             |   |   |   |   |
|-------|---------|------|-------------|---|---|---|---|
| F2-27 | 3:4:6:8 | 1.75 | C2,F2,C3,F3 |   |   |   |   |
| X     |         |      |             |   |   |   |   |
| X     |         |      |             |   |   |   |   |
| N     |         |      |             |   |   | O |   |
| N     |         |      |             |   |   | O |   |
| N     |         |      |             |   | O |   |   |
| N     |         |      |             |   | O |   |   |
|       | -       | -    | -           | - |   |   | - |

|       |         |      |             |   |  |  |   |
|-------|---------|------|-------------|---|--|--|---|
| F2-28 | 3:4:6:8 | 1.75 | C2,F2,C3,F3 |   |  |  |   |
| X     |         |      |             |   |  |  |   |
| N     |         |      | O           |   |  |  |   |
| N     |         |      | O           |   |  |  |   |
| N     | O       |      |             |   |  |  |   |
| N     | O       |      |             |   |  |  |   |
| X     |         |      |             |   |  |  |   |
|       | -       | -    | -           | - |  |  | - |

|       |            |       |                |   |  |  |   |
|-------|------------|-------|----------------|---|--|--|---|
| F2-29 | 4:5:6:8:10 | 1.683 | F2,A3,C3,F3,A4 |   |  |  |   |
| N     |            | O     |                |   |  |  |   |
| N     |            |       | O              |   |  |  |   |
| N     |            | O     |                |   |  |  |   |
| N     |            |       | O              | O |  |  |   |
| N     |            |       |                | O |  |  |   |
| X     |            |       |                |   |  |  |   |
|       | -          | -     | -              | - |  |  | - |

|       |            |       |                |   |  |  |   |
|-------|------------|-------|----------------|---|--|--|---|
| F2-30 | 4:5:6:9:10 | 1.656 | F2,A3,C3,G3,A4 |   |  |  |   |
| N     |            | O     |                |   |  |  |   |
| N     |            |       |                | O |  |  |   |
| N     |            | O     |                |   |  |  |   |
| N     |            |       | O              | O |  |  |   |
| N     |            |       |                | O |  |  |   |
| X     |            |       |                |   |  |  |   |
|       | -          | -     | -              | - |  |  | - |

|       |            |       |                |   |   |   |   |   |   |
|-------|------------|-------|----------------|---|---|---|---|---|---|
| F2-31 | 4:5:6:9:12 | 1.622 | F2,A3,C3,G3,C4 |   |   |   |   |   |   |
| N     |            |       |                |   |   | O |   |   |   |
| N     |            |       |                |   |   | O |   |   |   |
| N     |            |       |                | O |   |   |   |   |   |
| N     |            |       |                |   |   | O |   |   |   |
| N     |            |       |                |   |   | O |   |   |   |
| X     |            |       |                |   |   |   |   |   |   |
|       |            | -     | -              | - | - | - | - | - | - |

|       |            |       |                 |   |   |   |   |   |   |
|-------|------------|-------|-----------------|---|---|---|---|---|---|
| F2-32 | 4:5:7:9:10 | 1.608 | F2,A3,D#3,G3,A4 |   |   |   |   |   |   |
| N     |            |       |                 | O |   |   |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| N     |            |       |                 |   | O |   |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| X     |            |       |                 |   |   |   |   |   |   |
|       |            | -     | -               | - | - | - | - | - | - |

|       |            |       |                 |   |   |   |   |   |   |
|-------|------------|-------|-----------------|---|---|---|---|---|---|
| F2-33 | 4:5:7:9:12 | 1.574 | F2,A3,D#3,G3,C4 |   |   |   |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| N     |            |       |                 |   | O |   |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| X     |            |       |                 |   |   |   |   |   |   |
|       |            | -     | -               | - | - | - | - | - | - |

|       |            |       |                 |   |   |   |   |   |   |
|-------|------------|-------|-----------------|---|---|---|---|---|---|
| F2-34 | 4:6:7:9:12 | 1.508 | F2,C3,D#3,G3,C4 |   |   |   |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| N     |            |       |                 |   |   |   | O |   |   |
| N     |            |       |                 |   |   | O |   |   |   |
| X     |            |       |                 |   |   |   |   |   |   |
|       |            | -     | -               | - | - | - | - | - | - |

|       |             |       |                 |   |   |   |   |   |   |
|-------|-------------|-------|-----------------|---|---|---|---|---|---|
| F2-35 | 4:6:7:10:12 | 1.486 | F2,C3,D#3,A4,C4 |   |   |   |   |   |   |
| N     |             |       |                 |   |   | O |   |   |   |
| N     |             |       |                 |   |   |   | O |   |   |
| N     |             |       |                 |   |   | O |   |   |   |
| N     |             |       |                 |   |   |   | O |   |   |
| N     |             |       |                 |   |   | O |   |   |   |
| X     |             |       |                 |   |   |   |   |   |   |
|       |             | -     | -               | - | - | - | - | - | - |

| F2-36 | 4:5:6:8 | 1.483 | F2,A3,C3,F3 |   |  |  |   |
|-------|---------|-------|-------------|---|--|--|---|
| X     |         |       |             |   |  |  |   |
| N     |         |       | O           |   |  |  |   |
| N     |         | O     |             |   |  |  |   |
| N     |         |       | O           |   |  |  |   |
| N     |         |       |             | O |  |  |   |
| X     |         |       |             |   |  |  |   |
|       | -       | -     | -           | - |  |  | - |

| F2-37 | 4:5:6:8 | 1.483 | F2,A3,C3,F3 |   |  |  |   |
|-------|---------|-------|-------------|---|--|--|---|
| N     | O       |       |             |   |  |  |   |
| N     | O       |       |             |   |  |  |   |
| N     | O       |       |             |   |  |  |   |
| N     |         | O     |             |   |  |  |   |
| X     |         |       |             |   |  |  |   |
| X     |         |       |             |   |  |  |   |
|       | -       | -     | -           | - |  |  | - |

| F2-38 | 4:6:8:9:12 | 1.472 | F2,C3,F3,G3,C4 |   |  |   |   |
|-------|------------|-------|----------------|---|--|---|---|
| N     |            |       |                | O |  |   |   |
| N     |            |       |                | O |  |   |   |
| N     |            |       |                |   |  | O |   |
| N     |            |       |                |   |  | O |   |
| N     |            |       |                | O |  |   |   |
| X     |            |       |                |   |  |   |   |
|       | -          | -     | -              | - |  |   | - |

| F2-39 | 4:6:7:10:14 | 1.462 | F2,C3,D#3,A4,D#4 |   |  |   |   |
|-------|-------------|-------|------------------|---|--|---|---|
| N     |             |       |                  |   |  | O |   |
| N     |             |       |                  |   |  | O |   |
| N     |             |       |                  | O |  |   |   |
| N     |             |       |                  |   |  | O |   |
| N     |             |       |                  | O |  |   |   |
| X     |             |       |                  |   |  |   |   |
|       | -           | -     | -                | - |  |   | - |

| F2-40 | 4:5:6:9 | 1.456 | F2,A3,C3,G3 |   |  |  |   |
|-------|---------|-------|-------------|---|--|--|---|
| N     |         | O     |             |   |  |  |   |
| N     | O       |       |             |   |  |  |   |
| N     | O       |       |             |   |  |  |   |
| N     |         | O     |             |   |  |  |   |
| X     |         |       |             |   |  |  |   |
| X     |         |       |             |   |  |  |   |
|       | -       | -     | -           | - |  |  | - |

|       |         |       |             |   |   |  |  |  |   |
|-------|---------|-------|-------------|---|---|--|--|--|---|
| F2-41 | 4:5:6:9 | 1.456 | F2,A3,C3,G3 |   |   |  |  |  |   |
| X     |         |       |             |   |   |  |  |  |   |
| N     |         |       |             |   |   |  |  |  |   |
| N     |         |       |             |   |   |  |  |  |   |
| N     |         |       |             |   |   |  |  |  |   |
| N     |         |       |             |   |   |  |  |  |   |
| X     |         |       |             |   |   |  |  |  |   |
|       |         | -     | -           | - | - |  |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| F2-42 | 4:5:7:8 | 1.436 | F2,A3,D#3,F3 |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| F2-43 | 4:5:7:8 | 1.436 | F2,A3,D#3,F3 |   |   |  |  |  |   |
| N     | O       |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| F2-44 | 4:5:7:9 | 1.408 | F2,A3,D#3,G3 |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| F2-45 | 4:5:7:9 | 1.408 | F2,A3,D#3,G3 |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

| F2-46 | 4:5:7:10 | 1.386 | F2,A3,D#3,A4 |   |   |  |   |
|-------|----------|-------|--------------|---|---|--|---|
| N     |          |       | O            |   |   |  |   |
| N     |          |       | O            |   |   |  |   |
| N     | O        |       |              |   |   |  |   |
| N     |          | O     |              |   |   |  |   |
| X     |          |       |              |   |   |  |   |
| X     |          |       |              |   |   |  |   |
|       |          | -     | -            | - | - |  | - |

| F2-47 | 4:5:7:10 | 1.386 | F2,A3,D#3,A4 |   |   |  |   |
|-------|----------|-------|--------------|---|---|--|---|
| X     |          |       |              |   | O |  |   |
| N     |          |       |              |   |   |  |   |
| N     |          |       |              | O |   |  |   |
| N     |          |       |              | O |   |  |   |
| N     |          |       |              |   | O |  |   |
| X     |          |       |              |   |   |  |   |
|       |          | -     | -            | - | - |  | - |

| F2-48 | 5:6:8:12:16:18 | 1.386 | A2,C2,F2,C3,F3,G3 |   |   |  |   |
|-------|----------------|-------|-------------------|---|---|--|---|
| N     |                | O     |                   |   |   |  |   |
| N     |                |       |                   | O |   |  |   |
| N     |                |       |                   |   |   |  |   |
| N     |                | O     |                   |   |   |  |   |
| N     |                | O     |                   |   |   |  |   |
| N     |                |       |                   | O |   |  |   |
|       |                | -     | -                 | - | - |  | - |

| F2-49 | 4:5:8:9 | 1.372 | F2,A3,F3,G3 |   |   |   |   |
|-------|---------|-------|-------------|---|---|---|---|
| X     |         |       |             |   |   |   |   |
| N     |         |       |             | O |   |   |   |
| N     |         |       |             |   |   | O |   |
| N     |         |       |             | O |   |   |   |
| N     |         |       |             |   | O |   |   |
| X     |         |       |             |   |   |   |   |
|       |         | -     | -           | - | - |   | - |

| F2-50 | 5:5:8:12:14 | 1.36 | A2,A2,F2,C3,D#3 |   |   |  |   |
|-------|-------------|------|-----------------|---|---|--|---|
| X     |             |      |                 |   |   |  |   |
| N     |             |      | O               |   |   |  |   |
| N     |             |      |                 | O |   |  |   |
| N     |             | O    |                 |   |   |  |   |
| O     |             |      |                 |   |   |  |   |
| N     |             |      | O               |   |   |  |   |
|       |             | -    | -               | - | - |  | - |



|       |          |      |             |   |  |   |   |   |   |  |   |
|-------|----------|------|-------------|---|--|---|---|---|---|--|---|
| F2-51 | 4:5:8:10 | 1.35 | F2,A3,F3,A4 |   |  |   |   |   |   |  |   |
| X     |          |      |             |   |  |   |   |   |   |  |   |
| N     |          |      |             |   |  |   |   |   | O |  |   |
| N     |          |      |             |   |  |   |   |   | O |  |   |
| N     |          |      |             |   |  | O |   |   |   |  |   |
| N     |          |      |             |   |  |   | O |   |   |  |   |
| X     |          |      |             |   |  |   |   |   |   |  |   |
|       |          | -    |             | - |  | - |   | - |   |  | - |

|       |             |       |                |   |  |   |  |   |  |  |   |
|-------|-------------|-------|----------------|---|--|---|--|---|--|--|---|
| F2-52 | 5:5:8:12:16 | 1.342 | A2,A2,F2,C3,F3 |   |  |   |  |   |  |  |   |
| X     |             |       |                |   |  | O |  |   |  |  |   |
| N     |             |       |                | O |  |   |  |   |  |  |   |
| N     |             | O     |                |   |  |   |  |   |  |  |   |
| O     |             |       |                |   |  |   |  |   |  |  |   |
| N     |             |       | O              |   |  |   |  |   |  |  |   |
|       |             | -     |                | - |  | - |  | - |  |  | - |

|       |         |       |              |   |  |   |  |   |  |  |   |
|-------|---------|-------|--------------|---|--|---|--|---|--|--|---|
| F2-53 | 4:6:7:9 | 1.341 | F2,C3,D#3,G3 |   |  |   |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
| N     |         |       |              |   |  | O |  |   |  |  |   |
| N     |         |       |              |   |  | O |  |   |  |  |   |
| N     |         |       |              |   |  |   |  | O |  |  |   |
| N     |         |       |              |   |  | O |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
|       |         | -     |              | - |  | - |  | - |  |  | - |

|       |         |       |              |   |  |   |  |   |  |  |   |
|-------|---------|-------|--------------|---|--|---|--|---|--|--|---|
| F2-54 | 4:6:7:9 | 1.341 | F2,C3,D#3,G3 |   |  |   |  |   |  |  |   |
| N     |         | O     |              |   |  |   |  |   |  |  |   |
| N     |         |       | O            |   |  |   |  |   |  |  |   |
| N     |         |       |              | O |  |   |  |   |  |  |   |
| N     |         | O     |              |   |  |   |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |   |
|       |         | -     |              | - |  | - |  | - |  |  | - |

|       |          |       |              |   |  |   |  |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|--|---|--|--|---|
| F2-55 | 4:6:7:10 | 1.319 | F2,C3,D#3,A4 |   |  |   |  |   |  |  |   |
| N     |          |       | O            |   |  |   |  |   |  |  |   |
| N     |          |       | O            |   |  |   |  |   |  |  |   |
| N     |          |       |              | O |  |   |  |   |  |  |   |
| N     |          | O     |              |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
|       |          | -     |              | - |  | - |  | - |  |  | - |

|       |          |       |              |   |   |   |  |   |   |
|-------|----------|-------|--------------|---|---|---|--|---|---|
| F2-56 | 4:6:7:10 | 1.319 | F2,C3,D#3,A4 |   |   |   |  |   |   |
| X     |          |       |              |   |   |   |  |   |   |
| N     |          |       |              |   |   |   |  | O |   |
| N     |          |       |              |   |   | O |  | O |   |
| N     |          |       |              |   |   | O |  |   |   |
| X     |          |       |              |   |   |   |  |   |   |
|       |          | -     | -            | - | - |   |  |   | - |

|       |         |       |             |   |   |   |  |   |   |
|-------|---------|-------|-------------|---|---|---|--|---|---|
| F2-57 | 4:6:8:9 | 1.306 | F2,C3,F3,G3 |   |   |   |  |   |   |
| X     |         |       |             |   |   |   |  |   |   |
| N     |         |       |             |   |   | O |  | O |   |
| N     |         |       |             |   |   |   |  | O |   |
| N     |         |       |             |   |   |   |  | O |   |
| N     |         |       |             |   |   | O |  |   |   |
| X     |         |       |             |   |   |   |  |   |   |
|       |         | -     | -           | - | - |   |  |   | - |

|       |         |       |             |   |   |  |  |  |   |
|-------|---------|-------|-------------|---|---|--|--|--|---|
| F2-58 | 4:6:8:9 | 1.306 | F2,C3,F3,G3 |   |   |  |  |  |   |
| N     |         | O     |             |   |   |  |  |  |   |
| N     |         |       |             | O |   |  |  |  |   |
| N     |         |       |             |   |   |  |  |  |   |
| N     |         | O     |             |   |   |  |  |  |   |
| X     |         |       |             |   |   |  |  |  |   |
| X     |         |       |             |   |   |  |  |  |   |
|       |         | -     | -           | - | - |  |  |  | - |

|       |             |       |                 |   |   |  |  |  |   |
|-------|-------------|-------|-----------------|---|---|--|--|--|---|
| F2-59 | 5:6:8:12:14 | 1.293 | A2,C2,F2,C3,D#3 |   |   |  |  |  |   |
| X     |             |       |                 |   |   |  |  |  |   |
| N     |             |       | O               |   |   |  |  |  |   |
| N     |             |       |                 | O |   |  |  |  |   |
| N     |             | O     |                 |   |   |  |  |  |   |
| N     |             | O     |                 |   |   |  |  |  |   |
| N     |             |       |                 | O |   |  |  |  |   |
|       |             | -     | -               | - | - |  |  |  | - |

|       |             |       |                |   |   |  |  |  |   |
|-------|-------------|-------|----------------|---|---|--|--|--|---|
| F2-60 | 5:6:8:12:16 | 1.275 | A2,C2,F2,C3,F3 |   |   |  |  |  |   |
| X     |             |       |                |   |   |  |  |  |   |
| N     |             |       |                |   | O |  |  |  |   |
| N     |             |       |                | O |   |  |  |  |   |
| N     |             | O     |                |   |   |  |  |  |   |
| N     |             | O     |                |   |   |  |  |  |   |
| N     |             |       |                | O |   |  |  |  |   |
|       |             | -     | -              | - | - |  |  |  | - |

|       |         |       |             |   |  |   |  |   |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|---|
| F2-61 | 5:5:8:9 | 1.272 | A2,A2,F2,G2 |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| O     |         |       |             |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
| O     |         |       |             |   |  |   |  |   |  |   |
| N     |         |       |             | O |  |   |  |   |  |   |
|       |         | -     |             | - |  | - |  | - |  | - |

|       |                 |       |                   |   |   |   |   |   |  |   |
|-------|-----------------|-------|-------------------|---|---|---|---|---|--|---|
| F2-62 | 5:8:10:12:16:20 | 1.242 | A2,F2,A3,C3,F3,A4 |   |   |   |   |   |  |   |
| N     |                 |       |                   | O |   |   |   |   |  |   |
| N     |                 |       |                   |   | O |   |   |   |  |   |
| N     |                 |       |                   | O |   |   |   |   |  |   |
| N     |                 |       |                   |   |   | O |   |   |  |   |
| N     |                 |       |                   |   |   |   | O |   |  |   |
| N     |                 |       |                   | O |   |   |   |   |  |   |
|       |                 | -     |                   | - |   | - |   | - |  | - |

|       |                 |       |                   |   |  |   |   |   |  |   |
|-------|-----------------|-------|-------------------|---|--|---|---|---|--|---|
| F2-63 | 5:8:10:12:18:20 | 1.228 | A2,F2,A3,C3,G3,A4 |   |  |   |   |   |  |   |
| N     |                 |       |                   | O |  |   |   |   |  |   |
| N     |                 |       |                   |   |  |   | O |   |  |   |
| N     |                 |       |                   | O |  |   |   |   |  |   |
| N     |                 |       |                   |   |  | O |   |   |  |   |
| N     |                 |       |                   |   |  |   |   | O |  |   |
| N     |                 |       |                   | O |  |   |   |   |  |   |
|       |                 | -     |                   | - |  | - |   | - |  | - |

|       |          |       |             |   |  |   |  |   |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|---|
| F2-64 | 5:5:8:12 | 1.217 | A2,A2,F2,C3 |   |  |   |  |   |  |   |
| X     |          |       |             |   |  |   |  |   |  |   |
| X     |          |       |             |   |  |   |  |   |  |   |
| N     |          |       |             | O |  |   |  |   |  |   |
| N     |          |       | O           |   |  |   |  |   |  |   |
| O     |          |       |             |   |  |   |  |   |  |   |
| N     |          |       |             | O |  |   |  |   |  |   |
|       |          | -     |             | - |  | - |  | - |  | - |

|       |         |       |             |   |  |   |  |   |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|---|
| F2-65 | 5:6:8:9 | 1.206 | A2,C2,F2,G2 |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| O     |         |       |             |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
| N     |         |       | O           |   |  |   |  |   |  |   |
| N     |         |       |             | O |  |   |  |   |  |   |
|       |         | -     |             | - |  | - |  | - |  | - |

|       |             |       |                |   |   |   |   |  |   |
|-------|-------------|-------|----------------|---|---|---|---|--|---|
| F2-66 | 5:8:10:9:18 | 1.183 | A2,F2,A3,G2,G3 |   |   |   |   |  |   |
| X     |             |       |                |   |   |   |   |  |   |
| N     |             |       |                |   |   |   | O |  |   |
| O     |             |       |                |   |   |   |   |  |   |
| N     |             |       |                |   |   | O |   |  |   |
| N     |             |       |                |   |   |   | O |  |   |
| N     |             |       | O              |   |   |   |   |  |   |
|       |             | -     | -              | - | - |   |   |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| F2-67 | 5:7:8:9 | 1.158 | A2,D#2,F2,G2 |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| O     |         |       |              |   |   |  |  |  |   |
| N     |         | O     |              |   |   |  |  |  |   |
| N     |         |       |              |   | O |  |  |  |   |
| N     |         |       | O            |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |          |      |             |   |   |  |  |  |   |
|-------|----------|------|-------------|---|---|--|--|--|---|
| F2-68 | 5:6:8:12 | 1.15 | A2,C2,F2,C3 |   |   |  |  |  |   |
| X     |          |      |             |   |   |  |  |  |   |
| X     |          |      |             |   |   |  |  |  |   |
| N     |          |      |             | O |   |  |  |  |   |
| N     |          | O    |             |   |   |  |  |  |   |
| N     |          | O    |             |   |   |  |  |  |   |
| N     |          |      | O           |   |   |  |  |  |   |
|       |          | -    | -           | - | - |  |  |  | - |

|       |             |      |                |   |   |  |  |  |   |
|-------|-------------|------|----------------|---|---|--|--|--|---|
| F2-69 | 5:8:9:12:18 | 1.15 | A2,F2,G2,C3,G3 |   |   |  |  |  |   |
| N     |             | O    |                |   |   |  |  |  |   |
| N     | O           |      |                |   |   |  |  |  |   |
| O     |             |      |                |   |   |  |  |  |   |
| N     |             | O    |                |   |   |  |  |  |   |
| O     |             |      |                |   |   |  |  |  |   |
| X     |             |      |                |   |   |  |  |  |   |
|       |             | -    | -              | - | - |  |  |  | - |

|       |             |      |                |   |   |  |   |  |   |
|-------|-------------|------|----------------|---|---|--|---|--|---|
| F2-70 | 5:8:9:12:18 | 1.15 | A2,F2,G2,C3,G3 |   |   |  |   |  |   |
| X     |             |      |                |   |   |  |   |  |   |
| N     |             |      |                |   |   |  | O |  |   |
| N     |             |      |                | O |   |  |   |  |   |
| N     |             |      |                | O |   |  |   |  |   |
| N     |             |      |                |   |   |  | O |  |   |
| N     |             |      | O              |   |   |  |   |  |   |
|       |             | -    | -              | - | - |  |   |  | - |

|       |              |       |                |   |  |   |  |   |  |  |  |   |
|-------|--------------|-------|----------------|---|--|---|--|---|--|--|--|---|
| F2-71 | 5:8:10:12:16 | 1.142 | A2,F2,A3,C3,F3 |   |  |   |  |   |  |  |  |   |
| N     | O            |       |                |   |  |   |  |   |  |  |  |   |
| N     | O            |       |                |   |  |   |  |   |  |  |  |   |
| N     |              | O     |                |   |  |   |  |   |  |  |  |   |
| N     |              |       | O              |   |  |   |  |   |  |  |  |   |
| O     |              |       |                |   |  |   |  |   |  |  |  |   |
| X     |              |       |                |   |  |   |  |   |  |  |  |   |
|       |              | -     |                | - |  | - |  | - |  |  |  | - |

|       |              |       |                |   |   |   |   |   |  |  |  |   |
|-------|--------------|-------|----------------|---|---|---|---|---|--|--|--|---|
| F2-72 | 5:8:10:12:16 | 1.142 | A2,F2,A3,C3,F3 |   |   |   |   |   |  |  |  |   |
| X     |              |       |                |   |   | O |   |   |  |  |  |   |
| N     |              |       |                |   | O |   |   |   |  |  |  |   |
| N     |              |       |                |   |   |   | O |   |  |  |  |   |
| N     |              |       |                |   |   |   |   | O |  |  |  |   |
| N     |              |       |                |   | O |   |   |   |  |  |  |   |
| N     |              |       |                |   |   |   |   |   |  |  |  |   |
|       |              | -     |                | - |   | - |   | - |  |  |  | - |

|       |              |       |                |   |  |   |  |   |  |  |  |   |
|-------|--------------|-------|----------------|---|--|---|--|---|--|--|--|---|
| F2-73 | 5:8:10:12:18 | 1.128 | A2,F2,A3,C3,G3 |   |  |   |  |   |  |  |  |   |
| N     |              |       | O              |   |  |   |  |   |  |  |  |   |
| N     | O            |       |                |   |  |   |  |   |  |  |  |   |
| N     |              | O     |                |   |  |   |  |   |  |  |  |   |
| N     |              |       | O              |   |  |   |  |   |  |  |  |   |
| O     |              |       |                |   |  |   |  |   |  |  |  |   |
| X     |              |       |                |   |  |   |  |   |  |  |  |   |
|       |              | -     |                | - |  | - |  | - |  |  |  | - |

|       |              |       |                 |   |   |   |   |   |  |  |  |   |
|-------|--------------|-------|-----------------|---|---|---|---|---|--|--|--|---|
| F2-74 | 5:8:10:14:16 | 1.118 | A2,F2,A3,D#3,F3 |   |   |   |   |   |  |  |  |   |
| X     |              |       |                 |   |   | O |   |   |  |  |  |   |
| N     |              |       |                 |   |   |   |   | O |  |  |  |   |
| N     |              |       |                 |   |   |   | O |   |  |  |  |   |
| N     |              |       |                 |   |   |   |   | O |  |  |  |   |
| N     |              |       |                 |   | O |   |   |   |  |  |  |   |
| N     |              |       |                 |   |   |   |   |   |  |  |  |   |
|       |              | -     |                 | - |   | - |   | - |  |  |  | - |

|       |             |       |                |   |  |   |   |   |   |  |  |   |
|-------|-------------|-------|----------------|---|--|---|---|---|---|--|--|---|
| F2-75 | 6:8:10:9:18 | 1.117 | C2,F2,A3,G2,G3 |   |  |   |   |   |   |  |  |   |
| X     |             |       |                |   |  |   |   | O |   |  |  |   |
| N     |             |       |                |   |  |   |   |   | O |  |  |   |
| O     |             |       |                |   |  |   | O |   |   |  |  |   |
| N     |             |       |                |   |  |   |   |   | O |  |  |   |
| N     |             |       |                |   |  |   |   |   | O |  |  |   |
| N     |             |       |                |   |  |   |   | O |   |  |  |   |
|       |             | -     |                | - |  | - |   | - |   |  |  | - |

| F2-76 | 5:8:10:14:18 | 1.104 | A2,F2,A3,D#3,G3 |   |  |  |  |  |  |
|-------|--------------|-------|-----------------|---|--|--|--|--|--|
| N     |              |       | O               |   |  |  |  |  |  |
| N     |              |       |                 | O |  |  |  |  |  |
| N     | O            |       |                 |   |  |  |  |  |  |
| N     |              |       | O               |   |  |  |  |  |  |
| O     |              |       |                 |   |  |  |  |  |  |
| X     |              |       |                 |   |  |  |  |  |  |
|       |              |       |                 |   |  |  |  |  |  |

| F2-77 | 5:8:10:14:18 | 1.104 | A2,F2,A3,D#3,G3 |   |  |   |  |  |  |
|-------|--------------|-------|-----------------|---|--|---|--|--|--|
| X     |              |       |                 |   |  |   |  |  |  |
| N     |              |       |                 |   |  | O |  |  |  |
| N     |              |       |                 |   |  | O |  |  |  |
| N     |              |       | O               |   |  |   |  |  |  |
| N     |              |       |                 |   |  | O |  |  |  |
| N     |              |       |                 | O |  |   |  |  |  |
|       |              |       |                 |   |  |   |  |  |  |

| F2-78 | 5:8:10:14:20 | 1.093 | A2,F2,A3,D#3,A4 |   |   |  |  |  |  |
|-------|--------------|-------|-----------------|---|---|--|--|--|--|
| N     |              |       |                 | O |   |  |  |  |  |
| N     |              |       |                 |   | O |  |  |  |  |
| N     | O            |       |                 |   |   |  |  |  |  |
| N     |              |       | O               |   |   |  |  |  |  |
| O     |              |       |                 |   |   |  |  |  |  |
| X     |              |       |                 |   |   |  |  |  |  |
|       |              |       |                 |   |   |  |  |  |  |

| F2-79 | 6:8:9:12:18 | 1.083 | C2,F2,G2,C3,G3 |  |  |  |  |  |  |
|-------|-------------|-------|----------------|--|--|--|--|--|--|
| N     |             |       | O              |  |  |  |  |  |  |
| N     | O           |       |                |  |  |  |  |  |  |
| O     |             |       |                |  |  |  |  |  |  |
| N     |             |       | O              |  |  |  |  |  |  |
| N     |             |       | O              |  |  |  |  |  |  |
| X     |             |       |                |  |  |  |  |  |  |
|       |             |       |                |  |  |  |  |  |  |

| F2-80 | 6:8:12:9:18 | 1.083 | C2,F2,C3,G2,G3 |  |  |   |  |   |  |
|-------|-------------|-------|----------------|--|--|---|--|---|--|
| X     |             |       |                |  |  |   |  |   |  |
| N     |             |       |                |  |  | O |  |   |  |
| O     |             |       |                |  |  |   |  |   |  |
| N     |             |       |                |  |  |   |  | O |  |
| N     |             |       |                |  |  | O |  |   |  |
| N     |             |       |                |  |  | O |  |   |  |
|       |             |       |                |  |  |   |  |   |  |

|       |          |       |             |   |   |   |   |   |  |  |  |   |
|-------|----------|-------|-------------|---|---|---|---|---|--|--|--|---|
| F2-81 | 5:8:10:9 | 1.072 | A2,F2,A3,G2 |   |   |   |   |   |  |  |  |   |
| X     |          |       |             |   |   |   |   |   |  |  |  |   |
| X     |          |       |             |   |   |   |   |   |  |  |  |   |
| O     |          |       |             |   |   |   |   |   |  |  |  |   |
| N     |          |       |             |   |   |   | O |   |  |  |  |   |
| N     |          |       |             |   |   |   |   | O |  |  |  |   |
| N     |          |       |             |   | O |   |   |   |  |  |  |   |
|       |          | -     |             | - |   | - |   | - |  |  |  | - |

|       |              |       |                 |   |   |   |  |   |  |  |  |   |
|-------|--------------|-------|-----------------|---|---|---|--|---|--|--|--|---|
| F2-82 | 5:8:12:14:18 | 1.071 | A2,F2,C3,D#3,G3 |   |   |   |  |   |  |  |  |   |
| N     |              |       | O               |   |   |   |  |   |  |  |  |   |
| N     |              |       |                 | O |   |   |  |   |  |  |  |   |
| N     |              |       |                 |   | O |   |  |   |  |  |  |   |
| N     |              |       | O               |   |   |   |  |   |  |  |  |   |
| O     |              |       |                 |   |   |   |  |   |  |  |  |   |
| X     |              |       |                 |   |   |   |  |   |  |  |  |   |
|       |              | -     |                 | - |   | - |  | - |  |  |  | - |

|       |              |       |                 |   |   |   |  |   |  |  |  |   |
|-------|--------------|-------|-----------------|---|---|---|--|---|--|--|--|---|
| F2-83 | 5:8:12:14:20 | 1.059 | A2,F2,C3,D#3,A4 |   |   |   |  |   |  |  |  |   |
| N     |              |       |                 | O |   |   |  |   |  |  |  |   |
| N     |              |       |                 | O |   |   |  |   |  |  |  |   |
| N     |              |       |                 |   | O |   |  |   |  |  |  |   |
| N     |              |       | O               |   |   |   |  |   |  |  |  |   |
| O     |              |       |                 |   |   |   |  |   |  |  |  |   |
| X     |              |       |                 |   |   |   |  |   |  |  |  |   |
|       |              | -     |                 | - |   | - |  | - |  |  |  | - |

|       |              |       |                |   |   |   |  |   |  |  |  |   |
|-------|--------------|-------|----------------|---|---|---|--|---|--|--|--|---|
| F2-84 | 5:8:12:16:18 | 1.053 | A2,F2,C3,F3,G3 |   |   |   |  |   |  |  |  |   |
| N     |              |       | O              |   |   |   |  |   |  |  |  |   |
| N     |              |       |                |   | O |   |  |   |  |  |  |   |
| N     |              |       |                |   | O |   |  |   |  |  |  |   |
| N     |              |       | O              |   |   |   |  |   |  |  |  |   |
| O     |              |       |                |   |   |   |  |   |  |  |  |   |
| X     |              |       |                |   |   |   |  |   |  |  |  |   |
|       |              | -     |                | - |   | - |  | - |  |  |  | - |

|       |              |       |                |   |   |   |  |   |  |  |  |   |
|-------|--------------|-------|----------------|---|---|---|--|---|--|--|--|---|
| F2-85 | 5:8:12:16:20 | 1.042 | A2,F2,C3,F3,A4 |   |   |   |  |   |  |  |  |   |
| N     |              |       |                | O |   |   |  |   |  |  |  |   |
| N     |              |       |                |   | O |   |  |   |  |  |  |   |
| N     |              |       |                | O |   |   |  |   |  |  |  |   |
| N     |              |       | O              |   |   |   |  |   |  |  |  |   |
| O     |              |       |                |   |   |   |  |   |  |  |  |   |
| X     |              |       |                |   |   |   |  |   |  |  |  |   |
|       |              | -     |                | - |   | - |  | - |  |  |  | - |

|       |          |       |             |   |   |  |   |
|-------|----------|-------|-------------|---|---|--|---|
| F2-86 | 5:8:9:12 | 1.039 | A2,F2,G2,C3 |   |   |  |   |
| X     |          |       |             |   |   |  |   |
| N     | O        |       |             |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| N     |          | O     |             |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
|       |          | -     | -           | - | - |  | - |

|       |         |       |             |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| F2-87 | 6:8:9:9 | 1.028 | C2,F2,G2,G2 |   |   |  |   |
| X     |         |       |             |   |   |  |   |
| X     |         |       |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     |         |       | O           |   |   |  |   |
| N     |         |       |             |   | O |  |   |
| N     |         |       |             |   | O |  |   |
|       |         | -     | -           | - | - |  | - |

|       |           |       |             |   |   |  |   |
|-------|-----------|-------|-------------|---|---|--|---|
| F2-88 | 5:8:10:12 | 1.017 | A2,F2,A3,C3 |   |   |  |   |
| X     |           |       |             |   |   |  |   |
| N     | O         |       |             |   |   |  |   |
| N     |           | O     |             |   |   |  |   |
| N     |           |       | O           |   |   |  |   |
| O     |           |       |             |   |   |  |   |
| X     |           |       |             |   |   |  |   |
|       |           | -     | -           | - | - |  | - |

|       |           |       |             |   |   |  |   |
|-------|-----------|-------|-------------|---|---|--|---|
| F2-89 | 5:8:10:12 | 1.017 | A2,F2,A3,C3 |   |   |  |   |
| X     |           |       |             |   |   |  |   |
| X     |           |       |             |   |   |  |   |
| N     |           |       | O           |   |   |  |   |
| N     |           |       |             | O |   |  |   |
| N     |           |       |             |   | O |  |   |
| N     |           |       | O           |   |   |  |   |
|       |           | -     | -           | - | - |  | - |

|       |          |       |             |   |   |  |   |
|-------|----------|-------|-------------|---|---|--|---|
| F2-90 | 6:8:10:9 | 1.006 | C2,F2,A3,G2 |   |   |  |   |
| X     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| N     |          |       |             | O |   |  |   |
| N     |          |       |             |   | O |  |   |
| N     |          |       |             |   | O |  |   |
|       |          | -     | -           | - | - |  | - |



|       |           |       |              |   |  |   |   |   |  |   |
|-------|-----------|-------|--------------|---|--|---|---|---|--|---|
| F2-91 | 5:8:10:14 | 0.993 | A2,F2,A3,D#3 |   |  |   |   |   |  |   |
| X     |           |       |              |   |  |   |   |   |  |   |
| X     |           |       |              |   |  |   |   |   |  |   |
| N     |           |       |              |   |  |   | O |   |  |   |
| N     |           |       |              |   |  | O |   |   |  |   |
| N     |           |       |              |   |  |   | O |   |  |   |
| N     |           |       |              | O |  |   |   |   |  |   |
|       |           | -     |              | - |  | - |   | - |  | - |

|       |           |       |              |   |  |   |  |   |  |   |
|-------|-----------|-------|--------------|---|--|---|--|---|--|---|
| F2-92 | 5:8:10:14 | 0.993 | A2,F2,A3,D#3 |   |  |   |  |   |  |   |
| X     |           |       |              |   |  |   |  |   |  |   |
| N     |           |       |              | O |  |   |  |   |  |   |
| N     | O         |       |              |   |  |   |  |   |  |   |
| N     |           | O     |              |   |  |   |  |   |  |   |
| O     |           |       |              |   |  |   |  |   |  |   |
| X     |           |       |              |   |  |   |  |   |  |   |
|       |           | -     |              | - |  | - |  | - |  | - |

|       |          |       |             |   |  |   |   |   |  |   |
|-------|----------|-------|-------------|---|--|---|---|---|--|---|
| F2-93 | 6:8:12:9 | 0.972 | C2,F2,C3,G2 |   |  |   |   |   |  |   |
| X     |          |       |             |   |  |   |   |   |  |   |
| X     |          |       |             |   |  |   |   |   |  |   |
| O     |          |       |             |   |  |   |   |   |  |   |
| N     |          |       |             |   |  |   |   | O |  |   |
| N     |          |       |             |   |  |   | O |   |  |   |
| N     |          |       |             |   |  |   | O |   |  |   |
|       |          | -     |             | - |  | - |   | - |  | - |

|       |          |       |             |   |  |   |  |   |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|---|
| F2-94 | 6:8:9:12 | 0.972 | C2,F2,G2,C3 |   |  |   |  |   |  |   |
| X     |          |       |             |   |  |   |  |   |  |   |
| N     | O        |       |             |   |  |   |  |   |  |   |
| O     |          |       |             |   |  |   |  |   |  |   |
| N     |          | O     |             |   |  |   |  |   |  |   |
| N     |          | O     |             |   |  |   |  |   |  |   |
| X     |          |       |             |   |  |   |  |   |  |   |
|       |          | -     |             | - |  | - |  | - |  | - |

|       |          |       |             |   |  |   |  |   |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|---|
| F2-95 | 6:8:9:12 | 0.972 | C2,F2,G2,C3 |   |  |   |  |   |  |   |
| X     |          |       |             |   |  |   |  |   |  |   |
| X     |          |       |             |   |  |   |  |   |  |   |
| N     |          |       |             | O |  |   |  |   |  |   |
| N     |          |       |             | O |  |   |  |   |  |   |
| N     |          |       |             |   |  | O |  |   |  |   |
| N     |          |       |             |   |  | O |  |   |  |   |
|       |          | -     |             | - |  | - |  | - |  | - |

|       |           |      |              |   |  |   |  |   |  |
|-------|-----------|------|--------------|---|--|---|--|---|--|
| F2-96 | 5:8:12:14 | 0.96 | A2,F2,C3,D#3 |   |  |   |  |   |  |
| X     |           |      |              |   |  |   |  |   |  |
| N     |           |      | O            |   |  |   |  |   |  |
| N     |           |      |              | O |  |   |  |   |  |
| N     |           | O    |              |   |  |   |  |   |  |
| O     |           |      |              |   |  |   |  |   |  |
| X     |           |      |              |   |  |   |  |   |  |
|       |           | -    |              | - |  | - |  | - |  |

|       |           |       |             |   |   |   |  |   |  |
|-------|-----------|-------|-------------|---|---|---|--|---|--|
| F2-97 | 5:8:12:16 | 0.942 | A2,F2,C3,F3 |   |   |   |  |   |  |
| X     |           |       |             |   |   |   |  |   |  |
| N     |           |       |             |   | O |   |  |   |  |
| N     |           |       |             | O |   |   |  |   |  |
| N     |           | O     |             |   |   |   |  |   |  |
| O     |           |       |             |   |   |   |  |   |  |
| X     |           |       |             |   |   |   |  |   |  |
|       |           | -     |             | - |   | - |  | - |  |

|       |          |       |              |   |  |   |   |   |  |
|-------|----------|-------|--------------|---|--|---|---|---|--|
| F2-98 | 7:8:12:9 | 0.925 | D#2,F2,C3,G2 |   |  |   |   |   |  |
| X     |          |       |              |   |  |   |   |   |  |
| X     |          |       |              |   |  |   |   |   |  |
| O     |          |       |              |   |  |   |   |   |  |
| N     |          |       |              |   |  |   | O |   |  |
| N     |          |       |              |   |  | O |   |   |  |
| N     |          |       |              |   |  |   |   | O |  |
|       |          | -     |              | - |  | - |   | - |  |

|       |              |       |                |   |   |   |  |   |  |
|-------|--------------|-------|----------------|---|---|---|--|---|--|
| F2-99 | 8:10:9:18:24 | 0.867 | F2,A3,G2,G3,C4 |   |   |   |  |   |  |
| N     |              |       |                |   |   | O |  |   |  |
| N     |              |       |                |   |   | O |  |   |  |
| O     |              |       |                |   |   |   |  |   |  |
| N     |              |       |                |   | O |   |  |   |  |
| N     |              |       |                |   |   | O |  |   |  |
| X     |              |       |                |   |   |   |  |   |  |
|       |              | -     |                | - |   | - |  | - |  |

|        |              |       |                |   |  |   |   |   |  |
|--------|--------------|-------|----------------|---|--|---|---|---|--|
| F2-100 | 8:12:9:18:24 | 0.833 | F2,C3,G2,G3,C4 |   |  |   |   |   |  |
| N      |              |       |                |   |  | O |   |   |  |
| N      |              |       |                |   |  | O |   |   |  |
| O      |              |       |                |   |  |   |   |   |  |
| N      |              |       |                |   |  |   | O |   |  |
| N      |              |       |                |   |  | O |   |   |  |
| X      |              |       |                |   |  |   |   |   |  |
|        |              | -     |                | - |  | - |   | - |  |

|        |           |       |              |   |  |   |   |   |   |   |
|--------|-----------|-------|--------------|---|--|---|---|---|---|---|
| F2-101 | 7:8:12:16 | 0.827 | D#2,F2,C3,F3 |   |  |   |   |   |   |   |
| X      |           |       |              |   |  |   |   |   |   |   |
| X      |           |       |              |   |  |   |   |   |   |   |
| N      |           |       |              |   |  |   |   | O |   |   |
| N      |           |       |              |   |  |   |   | O |   |   |
| N      |           |       |              |   |  |   | O |   | O |   |
| N      |           |       |              |   |  |   |   |   |   |   |
|        |           | -     |              | - |  | - |   |   |   | - |

|        |           |       |              |   |  |   |  |  |  |   |
|--------|-----------|-------|--------------|---|--|---|--|--|--|---|
| F2-102 | 7:8:12:16 | 0.827 | D#2,F2,C3,F3 |   |  |   |  |  |  |   |
| X      |           |       |              |   |  |   |  |  |  |   |
| N      |           |       |              | O |  |   |  |  |  |   |
| N      |           |       | O            |   |  |   |  |  |  |   |
| N      |           | O     |              |   |  |   |  |  |  |   |
| N      |           |       | O            |   |  |   |  |  |  |   |
| X      |           |       |              |   |  |   |  |  |  |   |
|        |           | -     |              | - |  | - |  |  |  | - |

|        |          |       |             |   |  |   |  |  |  |   |
|--------|----------|-------|-------------|---|--|---|--|--|--|---|
| F2-103 | 8:9:9:18 | 0.806 | F2,G2,G2,G3 |   |  |   |  |  |  |   |
| X      |          |       |             |   |  |   |  |  |  |   |
| N      |          |       |             |   |  | O |  |  |  |   |
| O      |          |       |             |   |  |   |  |  |  |   |
| N      |          |       | O           |   |  |   |  |  |  |   |
| N      |          |       |             |   |  | O |  |  |  |   |
| X      |          |       |             |   |  |   |  |  |  |   |
|        |          | -     |             | - |  | - |  |  |  | - |

|        |           |       |             |   |   |   |  |  |  |   |
|--------|-----------|-------|-------------|---|---|---|--|--|--|---|
| F2-104 | 8:10:9:18 | 0.783 | F2,A3,G2,G3 |   |   |   |  |  |  |   |
| X      |           |       |             |   |   |   |  |  |  |   |
| N      |           |       |             |   |   | O |  |  |  |   |
| O      |           |       |             |   |   |   |  |  |  |   |
| N      |           |       |             |   | O |   |  |  |  |   |
| N      |           |       |             |   |   | O |  |  |  |   |
| X      |           |       |             |   |   |   |  |  |  |   |
|        |           | -     |             | - |   | - |  |  |  | - |

|        |           |      |             |   |  |   |  |  |  |   |
|--------|-----------|------|-------------|---|--|---|--|--|--|---|
| F2-105 | 8:9:12:18 | 0.75 | F2,G2,C3,G3 |   |  |   |  |  |  |   |
| X      |           |      |             |   |  |   |  |  |  |   |
| N      |           |      |             | O |  | O |  |  |  |   |
| N      |           |      | O           |   |  |   |  |  |  |   |
| N      |           |      | O           |   |  |   |  |  |  |   |
| N      |           |      |             |   |  | O |  |  |  |   |
| X      |           |      |             |   |  |   |  |  |  |   |
|        |           | -    |             | - |  | - |  |  |  | - |

| F2-106 | 8:12:9:18 | 0.75 | F2,C3,G2,G3 |   |   |   |
|--------|-----------|------|-------------|---|---|---|
| X      |           |      |             |   |   |   |
| N      |           |      |             |   |   |   |
| O      |           |      |             |   |   |   |
| N      |           |      |             |   | O |   |
| N      |           |      |             |   | O |   |
| X      |           |      |             |   |   |   |
|        |           | -    | -           | - | - | - |

| F2-107 | 8:9:12:18 | 0.75 | F2,G2,C3,G3 |   |   |   |
|--------|-----------|------|-------------|---|---|---|
| N      |           |      |             |   |   |   |
| N      | O         |      |             |   |   |   |
| O      |           |      |             |   |   |   |
| N      |           | O    |             |   |   |   |
| X      |           |      |             |   |   |   |
| X      |           |      |             |   |   |   |
|        |           | -    | -           | - | - | - |

| F#2-1 | 4:5:8:10 | 1.35 | F#2,A#3,F#3,A#4 |   |  |   |   |   |  |   |   |
|-------|----------|------|-----------------|---|--|---|---|---|--|---|---|
| X     |          |      |                 |   |  |   |   |   |  |   |   |
| N     |          |      |                 |   |  |   |   |   |  | O |   |
| N     |          |      |                 |   |  |   |   |   |  | O |   |
| N     |          |      |                 |   |  |   | O |   |  |   |   |
| N     |          |      |                 |   |  |   |   | O |  |   |   |
| X     |          |      |                 |   |  |   |   |   |  |   |   |
|       |          | -    |                 | - |  | - |   | - |  |   | - |

| F#2-2 | 4:5:8 | 1.15 | F#2,A#3,F#3 |   |  |   |   |   |  |   |   |
|-------|-------|------|-------------|---|--|---|---|---|--|---|---|
| X     |       |      |             |   |  |   |   |   |  |   |   |
| N     |       |      |             |   |  |   |   |   |  | O |   |
| N     |       |      |             |   |  |   | O |   |  |   |   |
| N     |       |      |             |   |  |   |   | O |  |   |   |
| N     |       |      |             |   |  |   |   |   |  |   |   |
| X     |       |      |             |   |  |   |   |   |  |   |   |
|       |       | -    |             | - |  | - |   | - |  |   | - |

| G2-1 | 2:3:2:5:6 | 3.4 | G2,D3,G2,B4,D4 |   |   |   |
|------|-----------|-----|----------------|---|---|---|
| N    |           |     |                |   | 0 |   |
| N    |           |     |                |   |   | 0 |
| O    |           |     |                |   |   |   |
| N    |           |     |                |   |   | 0 |
| N    |           |     |                |   | 0 |   |
| X    |           |     |                |   |   |   |
|      | -         | -   | -              | - |   | - |

| G2-2 | 2:2:3:4 | 3.167 | G2,G2,D3,G3 |   |  |   |
|------|---------|-------|-------------|---|--|---|
| N    |         | 0     |             |   |  |   |
| N    |         | 0     |             |   |  |   |
| O    |         |       |             |   |  |   |
| N    |         | 0     |             |   |  |   |
| X    |         |       |             |   |  |   |
| X    |         |       |             |   |  |   |
|      | -       | -     | -           | - |  | - |

| G2-3 | 2:3:2:5 | 3.067 | G2,D3,G2,B4 |   |   |   |
|------|---------|-------|-------------|---|---|---|
| X    |         |       |             |   |   |   |
| N    |         |       |             |   |   | 0 |
| O    |         |       |             |   |   |   |
| N    |         |       |             |   |   | 0 |
| N    |         |       |             |   | 0 |   |
| X    |         |       |             |   |   |   |
|      | -       | -     | -           | - |   | - |

| G2-4 | 2:3:4:5:6 | 2.9 | G2,D3,G3,B4,D4 |   |   |   |
|------|-----------|-----|----------------|---|---|---|
| N    |           |     |                |   | 0 |   |
| N    |           |     |                |   |   | 0 |
| N    |           |     |                |   |   | 0 |
| N    |           |     |                |   |   | 0 |
| N    |           |     |                |   | 0 |   |
| X    |           |     |                |   |   |   |
|      | -         | -   | -              | - |   | - |

| G2-5 | 2:2:4:5 | 2.9 | G2,G2,G3,B4 |   |   |   |
|------|---------|-----|-------------|---|---|---|
| N    |         |     |             | 0 |   |   |
| N    |         |     |             |   | 0 |   |
| O    |         |     |             |   |   |   |
| N    |         | 0   |             |   |   |   |
| X    |         |     |             |   |   |   |
| X    |         |     |             |   |   |   |
|      | -       | -   | -           | - |   | - |

| G2-6 | 2:3:4:5 | 2.567 | G2,D3,G3,B4 |   |  |   |  |   |   |
|------|---------|-------|-------------|---|--|---|--|---|---|
| X    |         |       |             |   |  |   |  |   |   |
| N    |         |       |             |   |  |   |  |   | O |
| N    |         |       |             |   |  |   |  |   | O |
| N    |         |       |             |   |  |   |  |   | O |
| N    |         |       |             |   |  |   |  | O |   |
| X    |         |       |             |   |  |   |  |   |   |
|      |         | -     |             | - |  | - |  | - | - |

| G2-7 | 2:3:4:5 | 2.567 | G2,D3,G3,B4 |   |   |   |  |   |   |
|------|---------|-------|-------------|---|---|---|--|---|---|
| N    |         |       |             |   | O |   |  |   |   |
| N    |         |       |             |   |   | O |  |   |   |
| N    |         |       |             |   | O |   |  |   |   |
| N    |         |       |             | O |   |   |  |   |   |
| X    |         |       |             |   |   |   |  |   |   |
| X    |         |       |             |   |   |   |  |   |   |
|      |         | -     |             | - |   | - |  | - | - |

| G2-8 | 3:3:4:5:8 | 2.483 | D2,D2,G2,B3,G3 |   |  |   |  |   |   |
|------|-----------|-------|----------------|---|--|---|--|---|---|
| N    |           | O     |                |   |  |   |  |   |   |
| O    |           |       |                |   |  |   |  |   |   |
| O    |           |       |                |   |  |   |  |   |   |
| O    |           |       |                |   |  |   |  |   |   |
| N    |           |       | O              |   |  |   |  |   |   |
| X    |           |       |                |   |  |   |  |   |   |
|      |           | -     |                | - |  | - |  | - | - |

| G2-9 | 3:3:4:5:10 | 2.433 | D2,D2,G2,B3,B4 |   |  |   |  |   |   |
|------|------------|-------|----------------|---|--|---|--|---|---|
| N    |            |       | O              |   |  |   |  |   |   |
| O    |            |       |                |   |  |   |  |   |   |
| O    |            |       |                |   |  |   |  |   |   |
| O    |            |       |                |   |  |   |  |   |   |
| N    |            |       | O              |   |  |   |  |   |   |
| X    |            |       |                |   |  |   |  |   |   |
|      |            | -     |                | - |  | - |  | - | - |

| G2-10 | 3:3:4:6:8 | 2.417 | D2,D2,G2,D3,G3 |   |  |   |  |   |   |
|-------|-----------|-------|----------------|---|--|---|--|---|---|
| N     |           | O     |                |   |  |   |  |   |   |
| N     |           | O     |                |   |  |   |  |   |   |
| O     |           |       |                |   |  |   |  |   |   |
| O     |           |       |                |   |  |   |  |   |   |
| N     |           |       | O              |   |  |   |  |   |   |
| X     |           |       |                |   |  |   |  |   |   |
|       |           | -     |                | - |  | - |  | - | - |

| G2-11 | 3:2:5:6 | 2.4 | D3,G2,B4,D4 |   |  |   |  |   |  |   |   |
|-------|---------|-----|-------------|---|--|---|--|---|--|---|---|
| N     |         |     |             |   |  |   |  |   |  | O |   |
| N     |         |     |             |   |  |   |  |   |  |   | O |
| O     |         |     |             |   |  |   |  |   |  |   | O |
| N     |         |     |             |   |  |   |  |   |  |   | O |
| X     |         |     |             |   |  |   |  |   |  |   |   |
| X     |         |     |             |   |  |   |  |   |  |   |   |
|       |         | -   |             | - |  | - |  | - |  |   | - |

| G2-12 | 3:4:3:4 | 2.333 | D2,G2,D2,G2 |   |  |   |  |   |  |   |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|---|---|
| X     |         |       |             |   |  |   |  |   |  |   |   |
| X     |         |       |             |   |  |   |  |   |  |   |   |
| O     |         |       |             |   |  |   |  |   |  |   |   |
| O     |         |       |             |   |  |   |  |   |  |   |   |
| N     |         |       |             |   |  |   |  |   |  | O |   |
| N     |         |       |             |   |  |   |  |   |  | O |   |
|       |         | -     |             | - |  | - |  | - |  |   | - |

| G2-13 | 3:4:4:5:8 | 2.317 | D2,G2,G2,B3,G3 |   |  |   |  |   |  |  |   |
|-------|-----------|-------|----------------|---|--|---|--|---|--|--|---|
| N     |           | O     |                |   |  |   |  |   |  |  |   |
| O     |           |       |                |   |  |   |  |   |  |  |   |
| O     |           |       |                |   |  |   |  |   |  |  |   |
| N     |           |       |                | O |  |   |  |   |  |  |   |
| N     |           |       |                | O |  |   |  |   |  |  |   |
| X     |           |       |                |   |  |   |  |   |  |  |   |
|       |           | -     |                | - |  | - |  | - |  |  | - |

| G2-14 | 3:3:4:8:10 | 2.283 | D2,D2,G2,G3,B4 |   |   |   |  |   |  |  |   |
|-------|------------|-------|----------------|---|---|---|--|---|--|--|---|
| N     |            |       |                |   | O |   |  |   |  |  |   |
| N     |            |       |                |   |   | O |  |   |  |  |   |
| O     |            |       |                |   |   |   |  |   |  |  |   |
| O     |            |       |                |   |   |   |  |   |  |  |   |
| N     |            |       |                | O |   |   |  |   |  |  |   |
| X     |            |       |                |   |   |   |  |   |  |  |   |
|       |            | -     |                | - |   | - |  | - |  |  | - |

| G2-15 | 3:4:4:5:10 | 2.267 | D2,G2,G2,B3,B4 |   |   |   |  |   |  |  |   |
|-------|------------|-------|----------------|---|---|---|--|---|--|--|---|
| N     |            |       |                |   | O |   |  |   |  |  |   |
| O     |            |       |                |   |   |   |  |   |  |  |   |
| O     |            |       |                |   |   |   |  |   |  |  |   |
| N     |            |       |                | O |   |   |  |   |  |  |   |
| N     |            |       |                | O |   |   |  |   |  |  |   |
| X     |            |       |                |   |   |   |  |   |  |  |   |
|       |            | -     |                | - |   | - |  | - |  |  | - |



|       |            |       |                |   |  |   |  |   |   |
|-------|------------|-------|----------------|---|--|---|--|---|---|
| G2-16 | 4:3:4:5:10 | 2.267 | G2,D2,G2,B3,B4 |   |  |   |  |   |   |
| N     |            |       | O              |   |  |   |  |   |   |
| O     |            |       |                |   |  |   |  |   |   |
| O     |            |       |                |   |  |   |  |   |   |
| N     |            |       |                |   |  |   |  | O |   |
| X     |            |       |                |   |  |   |  |   |   |
|       |            | -     |                | - |  | - |  |   | - |

|       |           |      |                |   |  |   |  |  |   |
|-------|-----------|------|----------------|---|--|---|--|--|---|
| G2-17 | 3:4:4:6:8 | 2.25 | D2,G2,G2,D3,G3 |   |  |   |  |  |   |
| N     |           | O    |                |   |  |   |  |  |   |
| N     |           | O    |                |   |  |   |  |  |   |
| O     |           |      |                |   |  |   |  |  |   |
| N     |           |      | O              |   |  |   |  |  |   |
| N     |           |      | O              |   |  |   |  |  |   |
| X     |           |      |                |   |  |   |  |  |   |
|       |           | -    |                | - |  | - |  |  | - |

|       |         |       |             |   |  |   |  |  |   |
|-------|---------|-------|-------------|---|--|---|--|--|---|
| G2-18 | 3:3:4:5 | 2.233 | D2,D2,G2,B3 |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |  |   |
| N     |         |       | O           |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |  |   |
|       |         | -     |             | - |  | - |  |  | - |

|       |            |       |                |   |  |   |  |   |   |
|-------|------------|-------|----------------|---|--|---|--|---|---|
| G2-19 | 4:3:4:5:12 | 2.233 | G2,D2,G2,B3,D4 |   |  |   |  |   |   |
| N     |            |       |                |   |  |   |  | O |   |
| O     |            |       |                |   |  |   |  |   |   |
| O     |            |       |                |   |  |   |  |   |   |
| O     |            |       |                |   |  |   |  |   |   |
| N     |            |       |                |   |  |   |  | O |   |
| X     |            |       |                |   |  |   |  |   |   |
|       |            | -     |                | - |  | - |  |   | - |

|       |           |       |                |   |  |   |  |  |   |
|-------|-----------|-------|----------------|---|--|---|--|--|---|
| G2-20 | 3:4:5:5:8 | 2.217 | D2,G2,B3,B3,G3 |   |  |   |  |  |   |
| N     |           | O     |                |   |  |   |  |  |   |
| O     |           |       |                |   |  |   |  |  |   |
| N     |           |       | O              |   |  |   |  |  |   |
| N     |           |       |                | O |  |   |  |  |   |
| N     |           |       |                | O |  |   |  |  |   |
| X     |           |       |                |   |  |   |  |  |   |
|       |           | -     |                | - |  | - |  |  | - |

|       |         |       |             |   |  |  |   |
|-------|---------|-------|-------------|---|--|--|---|
| G2-21 | 3:3:4:6 | 2.167 | D2,D2,G2,D3 |   |  |  |   |
| X     |         |       |             |   |  |  |   |
| N     |         | O     |             |   |  |  |   |
| O     |         |       |             |   |  |  |   |
| O     |         |       |             |   |  |  |   |
| N     |         |       | O           |   |  |  |   |
| X     |         |       |             |   |  |  |   |
|       | -       | -     | -           | - |  |  | - |

|       |           |      |                |   |  |  |   |
|-------|-----------|------|----------------|---|--|--|---|
| G2-22 | 3:4:5:6:8 | 2.15 | D2,G2,B3,D3,G3 |   |  |  |   |
| N     |           | O    |                |   |  |  |   |
| N     |           | O    |                |   |  |  |   |
| N     |           |      | O              |   |  |  |   |
| N     |           |      | O              |   |  |  |   |
| N     |           |      | O              |   |  |  |   |
| X     |           |      |                |   |  |  |   |
|       | -         | -    | -              | - |  |  | - |

|       |            |     |                |   |  |  |   |
|-------|------------|-----|----------------|---|--|--|---|
| G2-23 | 3:4:6:5:10 | 2.1 | D2,G2,D3,B3,B4 |   |  |  |   |
| N     |            |     | O              |   |  |  |   |
| O     |            |     |                |   |  |  |   |
| N     |            |     | O              |   |  |  |   |
| N     |            |     | O              |   |  |  |   |
| N     |            |     | O              |   |  |  |   |
| X     |            |     |                |   |  |  |   |
|       | -          | -   | -              | - |  |  | - |

|       |         |       |             |   |  |   |   |
|-------|---------|-------|-------------|---|--|---|---|
| G2-24 | 3:4:3:8 | 2.083 | D2,G2,D2,G3 |   |  |   |   |
| X     |         |       |             |   |  |   |   |
| X     |         |       |             |   |  |   |   |
| N     |         |       |             |   |  |   | O |
| O     |         |       |             |   |  |   |   |
| N     |         |       |             |   |  | O |   |
| N     |         |       |             |   |  | O |   |
|       | -       | -     | -           | - |  |   | - |

|       |         |       |             |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| G2-25 | 3:3:4:8 | 2.083 | D2,D2,G2,G3 |   |   |  |   |
| X     |         |       |             |   |   |  |   |
| N     |         |       |             |   | O |  |   |
| O     |         |       |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     |         |       | O           |   |   |  |   |
| X     |         |       |             |   |   |  |   |
|       | -       | -     | -           | - |   |  | - |

|       |             |       |                |   |  |   |   |   |   |
|-------|-------------|-------|----------------|---|--|---|---|---|---|
| G2-26 | 4:3:4:8:12  | 2.083 | G2,D2,G2,G3,D4 |   |  |   |   |   |   |
| N     |             |       |                |   |  |   |   | O |   |
| N     |             |       |                |   |  |   | O |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| N     |             |       |                |   |  |   |   | O |   |
| X     |             |       |                |   |  |   |   |   |   |
|       |             | -     |                | - |  | - |   |   | - |
| G2-27 | 3:4:4:5     | 2.067 | D2,G2,G2,B3    |   |  |   |   |   |   |
| X     |             |       |                |   |  |   |   |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| N     |             |       |                | O |  |   |   |   |   |
| N     |             |       |                | O |  |   |   |   |   |
| X     |             |       |                |   |  |   |   |   |   |
|       |             | -     |                | - |  | - |   |   | - |
| G2-28 | 3:4:5:4     | 2.067 | D2,G2,B3,G2    |   |  |   |   |   |   |
| X     |             |       |                |   |  |   |   |   |   |
| X     |             |       |                |   |  |   |   |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| N     |             |       |                |   |  |   | O |   |   |
| N     |             |       |                |   |  |   |   | O |   |
| N     |             |       |                |   |  |   |   | O |   |
|       |             | -     |                | - |  | - |   |   | - |
| G2-29 | 4:3:4:5     | 2.067 | G2,D2,G2,B3    |   |  |   |   |   |   |
| X     |             |       |                |   |  |   |   |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| N     |             |       |                |   |  |   |   | O |   |
| X     |             |       |                |   |  |   |   |   |   |
|       |             | -     |                | - |  | - |   |   | - |
| G2-30 | 4:3:4:10:12 | 2.033 | G2,D2,G2,B4,D4 |   |  |   |   |   |   |
| N     |             |       |                |   |  |   |   | O |   |
| N     |             |       |                |   |  |   |   |   | O |
| O     |             |       |                |   |  |   |   |   |   |
| O     |             |       |                |   |  |   |   |   |   |
| N     |             |       |                |   |  |   |   | O |   |
| X     |             |       |                |   |  |   |   |   |   |
|       |             | -     |                | - |  | - |   |   | - |

| G2-31 | 3:4:4:6 | 2.0 | D2,G2,G2,D3 |  |   |  |   |  |   |
|-------|---------|-----|-------------|--|---|--|---|--|---|
| X     |         |     |             |  |   |  |   |  |   |
| N     |         | O   |             |  |   |  |   |  |   |
| O     |         |     |             |  |   |  |   |  |   |
| N     |         |     | O           |  |   |  |   |  |   |
| N     |         |     | O           |  |   |  |   |  |   |
| X     |         |     |             |  |   |  |   |  |   |
|       | -       |     | -           |  | - |  | - |  | - |

| G2-32 | 3:4:6:4 | 2.0 | D2,G2,D3,G2 |  |   |  |   |  |   |
|-------|---------|-----|-------------|--|---|--|---|--|---|
| X     |         |     |             |  |   |  |   |  |   |
| X     |         |     |             |  |   |  |   |  |   |
| O     |         |     |             |  |   |  |   |  |   |
| N     |         |     |             |  |   |  |   |  | O |
| N     |         |     |             |  |   |  | O |  |   |
| N     |         |     |             |  |   |  | O |  |   |
|       | -       |     | -           |  | - |  | - |  | - |

| G2-33 | 4:5:4:5:10 | 2.0 | G2,B3,G2,B3,B4 |  |   |   |   |  |   |
|-------|------------|-----|----------------|--|---|---|---|--|---|
| N     |            |     | O              |  |   |   |   |  |   |
| O     |            |     |                |  |   |   |   |  |   |
| O     |            |     |                |  |   |   |   |  |   |
| N     |            |     |                |  |   | O |   |  |   |
| N     |            |     |                |  |   |   | O |  |   |
| X     |            |     |                |  |   |   |   |  |   |
|       | -          |     | -              |  | - |   | - |  | - |

| G2-34 | 4:3:8:5:12 | 1.983 | G2,D2,G3,B3,D4 |  |   |  |   |  |   |
|-------|------------|-------|----------------|--|---|--|---|--|---|
| N     |            |       |                |  |   |  | O |  |   |
| O     |            |       |                |  |   |  | O |  |   |
| N     |            |       |                |  |   |  |   |  | O |
| O     |            |       |                |  |   |  |   |  |   |
| N     |            |       |                |  |   |  | O |  |   |
| X     |            |       |                |  |   |  |   |  |   |
|       | -          |       | -              |  | - |  | - |  | - |

| G2-35 | 3:4:5:5 | 1.967 | D2,G2,B3,B3 |  |   |  |   |  |   |
|-------|---------|-------|-------------|--|---|--|---|--|---|
| X     |         |       |             |  |   |  |   |  |   |
| O     |         |       |             |  |   |  |   |  |   |
| N     |         | O     |             |  |   |  |   |  |   |
| N     |         |       | O           |  |   |  |   |  |   |
| N     |         |       | O           |  |   |  |   |  |   |
| X     |         |       |             |  |   |  |   |  |   |
|       | -       |       | -           |  | - |  | - |  | - |

|       |            |       |                |   |  |   |  |   |   |
|-------|------------|-------|----------------|---|--|---|--|---|---|
| G2-36 | 4:5:4:5:12 | 1.967 | G2,B3,G2,B3,D4 |   |  |   |  |   |   |
| N     |            |       |                |   |  |   |  | O |   |
| O     |            |       |                |   |  |   |  |   |   |
| O     |            |       |                |   |  |   |  |   |   |
| N     |            |       |                |   |  |   |  | O |   |
| N     |            |       |                |   |  |   |  |   | O |
| X     |            |       |                |   |  |   |  |   |   |
|       |            | -     |                | - |  | - |  | - |   |

|       |            |      |                |   |   |   |  |   |  |
|-------|------------|------|----------------|---|---|---|--|---|--|
| G2-37 | 3:4:6:8:10 | 1.95 | D2,G2,D3,G3,B4 |   |   |   |  |   |  |
| N     |            |      |                |   | O |   |  |   |  |
| N     |            |      |                |   |   | O |  |   |  |
| N     |            |      |                |   | O |   |  |   |  |
| N     |            |      |                | O |   |   |  |   |  |
| N     |            |      |                | O |   |   |  |   |  |
| X     |            |      |                |   |   |   |  |   |  |
|       |            | -    |                | - |   | - |  | - |  |

|       |            |      |                |   |  |   |  |   |   |
|-------|------------|------|----------------|---|--|---|--|---|---|
| G2-38 | 3:4:6:8:10 | 1.95 | D2,G2,D3,G3,B4 |   |  |   |  |   |   |
| X     |            |      |                |   |  |   |  |   |   |
| N     |            |      |                |   |  |   |  |   | O |
| N     |            |      |                |   |  |   |  |   | O |
| N     |            |      |                |   |  |   |  |   | O |
| N     |            |      |                |   |  |   |  | O |   |
| N     |            |      |                |   |  |   |  | O |   |
|       |            | -    |                | - |  | - |  | - |   |

|       |         |       |             |   |  |   |  |   |  |
|-------|---------|-------|-------------|---|--|---|--|---|--|
| G2-39 | 4:3:4:8 | 1.917 | G2,D2,G2,G3 |   |  |   |  |   |  |
| X     |         |       |             |   |  |   |  |   |  |
| N     |         |       |             |   |  | O |  |   |  |
| O     |         |       |             |   |  |   |  |   |  |
| O     |         |       |             |   |  |   |  |   |  |
| N     |         |       |             |   |  |   |  | O |  |
| X     |         |       |             |   |  |   |  |   |  |
|       |         | -     |             | - |  | - |  | - |  |

|       |         |     |             |   |  |   |  |   |  |
|-------|---------|-----|-------------|---|--|---|--|---|--|
| G2-40 | 3:4:5:6 | 1.9 | D2,G2,B3,D3 |   |  |   |  |   |  |
| X     |         |     |             |   |  |   |  |   |  |
| N     |         | O   |             |   |  |   |  |   |  |
| N     |         |     | O           |   |  |   |  |   |  |
| N     |         |     |             | O |  |   |  |   |  |
| N     |         |     |             | O |  |   |  |   |  |
| X     |         |     |             |   |  |   |  |   |  |
|       |         | -   |             | - |  | - |  | - |  |

|       |            |     |                |   |  |  |   |
|-------|------------|-----|----------------|---|--|--|---|
| G2-41 | 4:6:4:5:12 | 1.9 | G2,D3,G2,B3,D4 |   |  |  |   |
| N     |            |     |                |   |  |  |   |
| O     |            |     |                |   |  |  |   |
| O     |            |     |                |   |  |  |   |
| N     |            |     |                |   |  |  |   |
| N     |            |     |                |   |  |  |   |
| X     |            |     |                |   |  |  |   |
|       | -          | -   | -              | - |  |  | - |

|       |          |       |             |   |  |  |   |
|-------|----------|-------|-------------|---|--|--|---|
| G2-42 | 4:3:4:10 | 1.867 | G2,D2,G2,B4 |   |  |  |   |
| X     |          |       |             |   |  |  |   |
| N     |          |       |             |   |  |  |   |
| O     |          |       |             |   |  |  |   |
| O     |          |       |             |   |  |  |   |
| N     |          |       |             |   |  |  |   |
| X     |          |       |             |   |  |  |   |
|       | -        | -     | -           | - |  |  | - |

|       |            |      |                |   |  |  |   |
|-------|------------|------|----------------|---|--|--|---|
| G2-43 | 4:5:4:8:10 | 1.85 | G2,B3,G2,G3,B4 |   |  |  |   |
| N     |            |      |                |   |  |  |   |
| N     |            |      |                |   |  |  |   |
| O     |            |      |                |   |  |  |   |
| N     |            |      |                |   |  |  |   |
| N     |            |      |                |   |  |  |   |
| X     |            |      |                |   |  |  |   |
|       | -          | -    | -              | - |  |  | - |

|       |         |       |             |   |  |  |   |
|-------|---------|-------|-------------|---|--|--|---|
| G2-44 | 4:3:8:5 | 1.817 | G2,D2,G3,B3 |   |  |  |   |
| X     |         |       |             |   |  |  |   |
| O     |         |       |             |   |  |  |   |
| N     |         |       |             |   |  |  |   |
| O     |         |       |             |   |  |  |   |
| N     |         |       |             |   |  |  |   |
| X     |         |       |             |   |  |  |   |
|       | -       | -     | -           | - |  |  | - |

|       |         |       |             |   |  |  |   |
|-------|---------|-------|-------------|---|--|--|---|
| G2-45 | 3:4:5:8 | 1.817 | D2,G2,B3,G3 |   |  |  |   |
| X     |         |       |             |   |  |  |   |
| X     |         |       |             |   |  |  |   |
| N     |         |       |             |   |  |  |   |
| N     |         |       |             |   |  |  |   |
| N     |         |       |             |   |  |  |   |
| N     |         |       |             |   |  |  |   |
|       | -       | -     | -           | - |  |  | - |

|       |         |       |             |   |  |   |  |   |  |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|--|---|
| G2-46 | 3:4:5:8 | 1.817 | D2,G2,B3,G3 |   |  |   |  |   |  |  |   |
| N     |         | O     |             |   |  |   |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |   |  |  |   |
|       |         | -     |             | - |  | - |  | - |  |  | - |

|       |            |       |                |   |  |   |   |   |  |  |   |
|-------|------------|-------|----------------|---|--|---|---|---|--|--|---|
| G2-47 | 4:5:4:8:12 | 1.817 | G2,B3,G2,G3,D4 |   |  |   |   |   |  |  |   |
| N     |            |       |                |   |  | O |   | O |  |  |   |
| N     |            |       |                |   |  | O |   |   |  |  |   |
| O     |            |       |                |   |  |   |   |   |  |  |   |
| N     |            |       |                |   |  |   | O |   |  |  |   |
| N     |            |       |                |   |  |   |   | O |  |  |   |
| X     |            |       |                |   |  |   |   |   |  |  |   |
|       |            | -     |                | - |  | - |   | - |  |  | - |

|       |         |     |             |   |  |   |   |   |  |  |   |
|-------|---------|-----|-------------|---|--|---|---|---|--|--|---|
| G2-48 | 4:5:4:5 | 1.8 | G2,B3,G2,B3 |   |  |   |   |   |  |  |   |
| X     |         |     |             |   |  |   |   |   |  |  |   |
| O     |         |     |             |   |  |   |   |   |  |  |   |
| O     |         |     |             |   |  |   |   |   |  |  |   |
| N     |         |     |             |   |  |   | O |   |  |  |   |
| N     |         |     |             |   |  |   |   | O |  |  |   |
| X     |         |     |             |   |  |   |   |   |  |  |   |
|       |         | -   |             | - |  | - |   | - |  |  | - |

|       |             |       |                |   |  |   |  |   |  |  |   |
|-------|-------------|-------|----------------|---|--|---|--|---|--|--|---|
| G2-49 | 4:3:8:10:12 | 1.783 | G2,D2,G3,B4,D4 |   |  |   |  |   |  |  |   |
| N     |             |       |                |   |  |   |  | O |  |  |   |
| N     |             |       |                |   |  |   |  |   |  |  | O |
| N     |             |       |                |   |  |   |  |   |  |  | O |
| O     |             |       |                |   |  |   |  |   |  |  |   |
| N     |             |       |                |   |  |   |  | O |  |  |   |
| X     |             |       |                |   |  |   |  |   |  |  |   |
|       |             | -     |                | - |  | - |  | - |  |  | - |

|       |          |       |             |   |  |   |  |   |  |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|--|---|
| G2-50 | 3:4:5:10 | 1.767 | D2,G2,B3,B4 |   |  |   |  |   |  |  |   |
| N     |          |       | O           |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
|       |          | -     |             | - |  | - |  | - |  |  | - |

| G2-51 | 3:4:6:8 | 1.75 | D2,G2,D3,G3 |   |  |   |   |
|-------|---------|------|-------------|---|--|---|---|
| X     |         |      |             |   |  |   |   |
| X     |         |      |             |   |  |   |   |
| N     |         |      |             |   |  |   | O |
| N     |         |      |             |   |  |   | O |
| N     |         |      |             |   |  | O |   |
| N     |         |      |             |   |  | O |   |
|       | -       | -    | -           | - |  |   | - |

| G2-52 | 3:4:6:8 | 1.75 | D2,G2,D3,G3 |   |   |  |   |
|-------|---------|------|-------------|---|---|--|---|
| X     |         |      |             |   |   |  |   |
| N     |         |      |             |   | O |  |   |
| N     |         |      |             | O |   |  |   |
| N     |         |      | O           |   |   |  |   |
| N     |         |      | O           |   |   |  |   |
| X     |         |      |             |   |   |  |   |
|       | -       | -    | -           | - |   |  | - |

| G2-53 | 3:4:6:8 | 1.75 | D2,G2,D3,G3 |   |  |  |   |
|-------|---------|------|-------------|---|--|--|---|
| N     |         | O    |             |   |  |  |   |
| N     |         | O    |             |   |  |  |   |
| O     |         |      |             |   |  |  |   |
| O     |         |      |             |   |  |  |   |
| X     |         |      |             |   |  |  |   |
| X     |         |      |             |   |  |  |   |
|       | -       | -    | -           | - |  |  | - |

| G2-54 | 3:4:5:12 | 1.733 | D2,G2,B3,D4 |   |   |  |   |
|-------|----------|-------|-------------|---|---|--|---|
| N     |          |       |             |   | O |  |   |
| O     |          |       |             |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
|       | -        | -     | -           | - |   |  | - |

| G2-55 | 4:6:4:5 | 1.733 | G2,D3,G2,B3 |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| X     |         |       |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     |         |       |             |   |   |  | O |
| N     |         |       |             |   | O |  |   |
| X     |         |       |             |   |   |  |   |
|       | -       | -     | -           | - |   |  | - |



|       |            |       |                |   |  |   |   |   |   |   |
|-------|------------|-------|----------------|---|--|---|---|---|---|---|
| G2-56 | 4:5:6:8:10 | 1.683 | G2,B3,D3,G3,B4 |   |  |   |   |   |   |   |
| N     |            |       |                |   |  | O |   |   |   |   |
| N     |            |       |                |   |  |   | O |   |   |   |
| N     |            |       |                |   |  | O |   |   |   |   |
| N     |            |       |                |   |  |   |   | O |   |   |
| N     |            |       |                |   |  |   |   |   | O |   |
| X     |            |       |                |   |  |   |   |   |   |   |
|       |            | -     |                | - |  | - |   | - |   | - |

|       |            |      |                |   |  |   |  |   |   |   |
|-------|------------|------|----------------|---|--|---|--|---|---|---|
| G2-57 | 4:6:8:5:12 | 1.65 | G2,D3,G3,B3,D4 |   |  |   |  |   |   |   |
| N     |            |      |                |   |  |   |  | O |   |   |
| O     |            |      |                |   |  |   |  |   |   | O |
| N     |            |      |                |   |  |   |  |   |   | O |
| N     |            |      |                |   |  |   |  |   | O |   |
| N     |            |      |                |   |  |   |  | O |   |   |
| X     |            |      |                |   |  |   |  |   |   |   |
|       |            | -    |                | - |  | - |  | - |   | - |

|       |         |      |             |   |  |   |   |   |  |   |
|-------|---------|------|-------------|---|--|---|---|---|--|---|
| G2-58 | 4:5:4:8 | 1.65 | G2,B3,G2,G3 |   |  |   |   |   |  |   |
| X     |         |      |             |   |  |   |   |   |  |   |
| N     |         |      |             |   |  | O |   |   |  |   |
| O     |         |      |             |   |  |   |   |   |  |   |
| N     |         |      |             |   |  |   | O |   |  |   |
| N     |         |      |             |   |  |   |   | O |  |   |
| X     |         |      |             |   |  |   |   |   |  |   |
|       |         | -    |             | - |  | - |   | - |  | - |

|       |         |      |             |   |  |   |  |   |  |   |
|-------|---------|------|-------------|---|--|---|--|---|--|---|
| G2-59 | 4:4:5:8 | 1.65 | G2,G2,B3,G3 |   |  |   |  |   |  |   |
| N     |         | O    |             |   |  |   |  |   |  |   |
| O     |         |      |             |   |  |   |  |   |  |   |
| O     |         |      |             |   |  |   |  |   |  |   |
| N     |         |      |             | O |  |   |  |   |  |   |
| X     |         |      |             |   |  |   |  |   |  |   |
| X     |         |      |             |   |  |   |  |   |  |   |
|       |         | -    |             | - |  | - |  | - |  | - |

|       |          |       |             |   |  |   |  |   |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|---|
| G2-60 | 4:3:8:10 | 1.617 | G2,D2,G3,B4 |   |  |   |  |   |  |   |
| X     |          |       |             |   |  |   |  |   |  |   |
| N     |          |       |             |   |  |   |  |   |  | O |
| N     |          |       |             |   |  |   |  |   |  | O |
| O     |          |       |             |   |  |   |  |   |  |   |
| N     |          |       |             |   |  |   |  | O |  |   |
| X     |          |       |             |   |  |   |  |   |  |   |
|       |          | -     |             | - |  | - |  | - |  | - |

|       |          |       |             |   |  |  |   |
|-------|----------|-------|-------------|---|--|--|---|
| G2-61 | 3:4:8:10 | 1.617 | D2,G2,G3,B4 |   |  |  |   |
| N     |          |       | O           |   |  |  |   |
| N     |          |       |             | O |  |  |   |
| O     |          |       |             |   |  |  |   |
| O     |          |       |             |   |  |  |   |
| X     |          |       |             |   |  |  |   |
| X     |          |       |             |   |  |  |   |
|       | -        | -     | -           | - |  |  | - |

|       |               |       |                   |   |  |  |   |
|-------|---------------|-------|-------------------|---|--|--|---|
| G2-62 | 5:6:6:8:10:20 | 1.617 | B2,D2,D2,G2,B3,B4 |   |  |  |   |
| N     |               |       | O                 |   |  |  |   |
| O     |               |       |                   |   |  |  |   |
| O     |               |       |                   |   |  |  |   |
| O     |               |       |                   |   |  |  |   |
| N     |               | O     |                   |   |  |  |   |
| N     |               |       | O                 |   |  |  |   |
|       | -             | -     | -                 | - |  |  | - |

|       |          |     |             |   |   |   |   |
|-------|----------|-----|-------------|---|---|---|---|
| G2-63 | 4:5:4:10 | 1.6 | G2,B3,G2,B4 |   |   |   |   |
| X     |          |     |             |   |   |   |   |
| N     |          |     |             |   |   |   | O |
| O     |          |     |             |   |   |   |   |
| N     |          |     |             |   | O |   |   |
| N     |          |     |             |   |   | O |   |
| X     |          |     |             |   |   |   |   |
|       | -        | -   | -           | - |   |   | - |

|       |          |     |             |   |  |  |   |
|-------|----------|-----|-------------|---|--|--|---|
| G2-64 | 4:4:5:10 | 1.6 | G2,G2,B3,B4 |   |  |  |   |
| N     |          |     | O           |   |  |  |   |
| O     |          |     |             |   |  |  |   |
| O     |          |     |             |   |  |  |   |
| N     |          | O   |             |   |  |  |   |
| X     |          |     |             |   |  |  |   |
| X     |          |     |             |   |  |  |   |
|       | -        | -   | -           | - |  |  | - |

|       |          |       |             |   |   |  |   |
|-------|----------|-------|-------------|---|---|--|---|
| G2-65 | 3:4:8:12 | 1.583 | D2,G2,G3,D4 |   |   |  |   |
| N     |          |       |             |   | O |  |   |
| N     |          |       |             | O |   |  |   |
| O     |          |       |             |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
|       | -        | -     | -           | - |   |  | - |

|       |         |      |             |   |  |   |  |   |  |  |   |
|-------|---------|------|-------------|---|--|---|--|---|--|--|---|
| G2-66 | 4:5:5:8 | 1.55 | G2,B3,B3,G3 |   |  |   |  |   |  |  |   |
| N     |         | O    |             |   |  |   |  |   |  |  |   |
| O     |         |      |             |   |  |   |  |   |  |  |   |
| N     |         |      | O           |   |  |   |  |   |  |  |   |
| N     |         |      |             | O |  |   |  |   |  |  |   |
| X     |         |      |             |   |  |   |  |   |  |  |   |
| X     |         |      |             |   |  |   |  |   |  |  |   |
|       |         | -    |             | - |  | - |  | - |  |  | - |

|       |               |       |                   |   |  |   |  |   |  |  |   |
|-------|---------------|-------|-------------------|---|--|---|--|---|--|--|---|
| G2-67 | 5:6:6:8:16:20 | 1.542 | B2,D2,D2,G2,G3,B4 |   |  |   |  |   |  |  |   |
| N     |               |       |                   |   |  | O |  | O |  |  |   |
| N     |               |       |                   |   |  |   |  |   |  |  |   |
| O     |               |       |                   |   |  |   |  |   |  |  |   |
| O     |               |       |                   |   |  |   |  |   |  |  |   |
| N     |               |       |                   | O |  |   |  |   |  |  |   |
| N     |               |       |                   |   |  | O |  |   |  |  |   |
|       |               | -     |                   | - |  | - |  | - |  |  | - |

|       |               |       |                   |   |  |   |  |   |  |  |   |
|-------|---------------|-------|-------------------|---|--|---|--|---|--|--|---|
| G2-68 | 5:6:8:8:10:20 | 1.533 | B2,D2,G2,G2,B3,B4 |   |  |   |  |   |  |  |   |
| N     |               |       |                   |   |  | O |  |   |  |  |   |
| O     |               |       |                   |   |  |   |  |   |  |  |   |
| O     |               |       |                   |   |  |   |  |   |  |  |   |
| N     |               |       |                   | O |  |   |  |   |  |  |   |
| N     |               |       |                   | O |  |   |  |   |  |  |   |
| N     |               |       |                   |   |  | O |  |   |  |  |   |
|       |               | -     |                   | - |  | - |  | - |  |  | - |

|       |           |       |             |   |  |   |  |   |   |  |   |
|-------|-----------|-------|-------------|---|--|---|--|---|---|--|---|
| G2-69 | 3:4:10:12 | 1.533 | D2,G2,B4,D4 |   |  |   |  |   | O |  |   |
| N     |           |       |             |   |  |   |  |   |   |  | O |
| N     |           |       |             |   |  |   |  |   |   |  |   |
| O     |           |       |             |   |  |   |  |   |   |  |   |
| O     |           |       |             |   |  |   |  |   |   |  |   |
| X     |           |       |             |   |  |   |  |   |   |  |   |
| X     |           |       |             |   |  |   |  |   |   |  |   |
|       |           | -     |             | - |  | - |  | - |   |  | - |

|       |            |       |                |   |  |   |  |   |  |  |   |
|-------|------------|-------|----------------|---|--|---|--|---|--|--|---|
| G2-70 | 5:6:6:8:10 | 1.517 | B2,D2,D2,G2,B3 |   |  |   |  |   |  |  |   |
| X     |            |       |                |   |  |   |  |   |  |  |   |
| O     |            |       |                |   |  |   |  |   |  |  |   |
| O     |            |       |                |   |  |   |  |   |  |  |   |
| O     |            |       |                |   |  |   |  |   |  |  |   |
| N     |            |       |                | O |  |   |  |   |  |  |   |
| N     |            |       |                |   |  | O |  |   |  |  |   |
|       |            | -     |                | - |  | - |  | - |  |  | - |

| G2-71 | 4:5:5:10 | 1.5 | G2,B3,B3,B4 |   |   |  |   |
|-------|----------|-----|-------------|---|---|--|---|
| N     |          |     |             | O |   |  |   |
| O     |          |     |             |   |   |  |   |
| N     |          | O   |             |   |   |  |   |
| N     |          |     | O           |   |   |  |   |
| X     |          |     |             |   |   |  |   |
| X     |          |     |             |   |   |  |   |
|       | -        |     | -           | - | - |  | - |

| G2-72 | 5:4:5:10 | 1.5 | B3,G2,B3,B4 |   |   |  |   |
|-------|----------|-----|-------------|---|---|--|---|
| N     |          |     |             | O |   |  |   |
| O     |          |     |             |   |   |  |   |
| O     |          |     |             |   |   |  |   |
| N     |          |     |             |   | O |  |   |
| X     |          |     |             |   |   |  |   |
| X     |          |     |             |   |   |  |   |
|       | -        |     | -           | - | - |  | - |

| G2-73 | 4:6:8:5 | 1.483 | G2,D3,G3,B3 |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| X     |         |       |             |   |   |  |   |
| O     |         |       |             |   |   |  |   |
| N     |         |       |             |   |   |  | O |
| N     |         |       |             |   |   |  | O |
| N     |         |       |             |   | O |  |   |
| X     |         |       |             |   |   |  |   |
|       | -       |       | -           | - | - |  | - |

| G2-74 | 4:5:6:8 | 1.483 | G2,B3,D3,G3 |   |   |  |   |
|-------|---------|-------|-------------|---|---|--|---|
| N     |         | O     |             |   |   |  |   |
| N     |         | O     |             |   |   |  |   |
| N     |         |       | O           |   |   |  |   |
| N     |         |       |             | O |   |  |   |
| X     |         |       |             |   |   |  |   |
| X     |         |       |             |   |   |  |   |
|       | -       |       | -           | - | - |  | - |

| G2-75 | 5:4:5:12 | 1.467 | B3,G2,B3,D4 |   | O |  |   |
|-------|----------|-------|-------------|---|---|--|---|
| N     |          |       |             |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| N     |          |       |             |   | O |  |   |
| X     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
|       | -        |       | -           | - | - |  | - |

[illegible]

|       |          |       |             |  |  |  |  |  |
|-------|----------|-------|-------------|--|--|--|--|--|
| G2-77 | 4:6:5:10 | 1.433 | G2,D3,B3,B4 |  |  |  |  |  |
| N     |          |       | O           |  |  |  |  |  |
| O     |          |       |             |  |  |  |  |  |
| N     |          |       | O           |  |  |  |  |  |
| N     |          | O     |             |  |  |  |  |  |
| X     |          |       |             |  |  |  |  |  |
| X     |          |       |             |  |  |  |  |  |

|       |            |       |                |  |  |  |  |  |
|-------|------------|-------|----------------|--|--|--|--|--|
| G2-78 | 5:6:8:8:10 | 1.433 | B2,D2,G2,G2,B3 |  |  |  |  |  |
| X     |            |       |                |  |  |  |  |  |
| O     |            |       |                |  |  |  |  |  |
| O     |            |       |                |  |  |  |  |  |
| N     |            | O     |                |  |  |  |  |  |
| N     |            | O     |                |  |  |  |  |  |
| N     |            |       | O              |  |  |  |  |  |

[illegible]

|       |                |     |                   |
|-------|----------------|-----|-------------------|
| G2-80 | 5:8:10:8:10:20 | 1.4 | B2,G2,B3,G2,B3,B4 |
| N     |                |     | O                 |
| O     |                |     |                   |
| O     |                |     |                   |
| N     |                |     | O                 |
| N     |                |     | O                 |
| N     |                |     | O                 |

|       |            |       |                |   |  |   |   |   |   |
|-------|------------|-------|----------------|---|--|---|---|---|---|
| G2-81 | 5:8:6:8:16 | 1.358 | B2,G2,D2,G2,G3 |   |  |   |   |   |   |
| X     |            |       |                |   |  |   |   |   |   |
| N     |            |       |                |   |  |   | o |   |   |
| O     |            |       |                |   |  |   |   |   |   |
| O     |            |       |                |   |  |   |   |   |   |
| N     |            |       |                |   |  |   |   | o |   |
| N     |            |       |                |   |  | o |   |   |   |
|       |            | -     |                | - |  | - |   |   | - |

|       |          |      |             |   |  |   |   |   |   |
|-------|----------|------|-------------|---|--|---|---|---|---|
| G2-82 | 4:5:8:10 | 1.35 | G2,B3,G3,B4 |   |  |   |   |   |   |
| X     |          |      |             |   |  |   |   |   |   |
| N     |          |      |             |   |  |   |   |   | o |
| N     |          |      |             |   |  |   |   |   | o |
| N     |          |      |             |   |  |   | o |   |   |
| N     |          |      |             |   |  |   |   | o |   |
| X     |          |      |             |   |  |   |   |   |   |
|       |          | -    |             | - |  | - |   |   | - |

|       |          |      |             |   |  |   |   |  |   |
|-------|----------|------|-------------|---|--|---|---|--|---|
| G2-83 | 5:4:8:10 | 1.35 | B3,G2,G3,B4 |   |  |   |   |  |   |
| N     |          |      |             |   |  | o |   |  |   |
| N     |          |      |             |   |  |   | o |  |   |
| O     |          |      |             |   |  |   |   |  |   |
| N     |          |      |             |   |  |   | o |  |   |
| X     |          |      |             |   |  |   |   |  |   |
| X     |          |      |             |   |  |   |   |  |   |
|       |          | -    |             | - |  | - |   |  | - |

|       |             |      |                |   |   |   |  |  |   |
|-------|-------------|------|----------------|---|---|---|--|--|---|
| G2-84 | 5:6:8:12:10 | 1.35 | B2,D2,G2,D3,B3 |   |   |   |  |  |   |
| X     |             |      |                |   |   |   |  |  |   |
| O     |             |      |                |   |   |   |  |  |   |
| N     |             |      |                |   |   | o |  |  |   |
| N     |             |      |                | o |   |   |  |  |   |
| N     |             |      |                | o |   | o |  |  |   |
| N     |             |      |                |   | o |   |  |  |   |
|       |             | -    |                | - |   | - |  |  | - |

|       |                |       |                   |   |  |   |   |   |   |
|-------|----------------|-------|-------------------|---|--|---|---|---|---|
| G2-85 | 5:8:10:8:16:20 | 1.325 | B2,G2,B3,G2,G3,B4 |   |  |   |   |   |   |
| N     |                |       |                   |   |  | o |   |   |   |
| N     |                |       |                   |   |  |   | o |   |   |
| O     |                |       |                   |   |  |   |   |   |   |
| N     |                |       |                   |   |  |   | o |   |   |
| N     |                |       |                   |   |  |   |   | o |   |
| N     |                |       |                   |   |  | o |   |   |   |
|       |                | -     |                   | - |  | - |   |   | - |

|       |          |       |             |   |  |   |   |   |   |  |   |
|-------|----------|-------|-------------|---|--|---|---|---|---|--|---|
| G2-86 | 5:4:8:12 | 1.317 | B3,G2,G3,D4 |   |  |   |   |   |   |  |   |
| N     |          |       |             |   |  |   |   |   | O |  |   |
| N     |          |       |             |   |  |   | O |   | O |  |   |
| O     |          |       |             |   |  |   |   |   |   |  |   |
| N     |          |       |             |   |  |   |   | O |   |  |   |
| X     |          |       |             |   |  |   |   |   |   |  |   |
| X     |          |       |             |   |  |   |   |   |   |  |   |
|       |          | -     |             | - |  | - |   | - |   |  | - |

|       |         |       |             |   |  |   |  |   |  |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|--|---|
| G2-87 | 5:6:6:8 | 1.317 | B2,D2,D2,G2 |   |  |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |   |  |  |   |
| X     |         |       |             |   |  |   |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |   |  |  |   |
| O     |         |       |             |   |  |   |  |   |  |  |   |
| N     |         |       |             | O |  |   |  |   |  |  |   |
| N     |         |       |             |   |  | O |  |   |  |  |   |
|       |         | -     |             | - |  | - |  | - |  |  | - |

|       |             |       |                |   |  |   |  |   |  |  |   |
|-------|-------------|-------|----------------|---|--|---|--|---|--|--|---|
| G2-88 | 5:6:8:10:16 | 1.308 | B2,D2,G2,B3,G3 |   |  |   |  |   |  |  |   |
| N     |             | O     |                |   |  |   |  |   |  |  |   |
| O     |             |       |                |   |  |   |  |   |  |  |   |
| O     |             |       |                |   |  |   |  |   |  |  |   |
| O     |             |       |                |   |  |   |  |   |  |  |   |
| N     | O           |       |                |   |  |   |  |   |  |  |   |
| X     |             |       |                |   |  |   |  |   |  |  |   |
|       |             | -     |                | - |  | - |  | - |  |  | - |

|       |             |     |                |   |  |   |  |   |   |  |   |
|-------|-------------|-----|----------------|---|--|---|--|---|---|--|---|
| G2-89 | 5:8:10:8:10 | 1.3 | B2,G2,B3,G2,B3 |   |  |   |  |   |   |  |   |
| X     |             |     |                |   |  |   |  |   |   |  |   |
| O     |             |     |                |   |  |   |  |   |   |  |   |
| O     |             |     |                |   |  |   |  |   |   |  |   |
| N     |             |     |                |   |  |   |  | O |   |  |   |
| N     |             |     |                |   |  |   |  |   | O |  |   |
| N     |             |     |                |   |  | O |  |   |   |  |   |
|       |             | -   |                | - |  | - |  | - |   |  | - |

|       |             |       |                |   |  |   |   |   |  |  |   |
|-------|-------------|-------|----------------|---|--|---|---|---|--|--|---|
| G2-90 | 5:6:8:12:16 | 1.275 | B2,D2,G2,D3,G3 |   |  |   |   |   |  |  |   |
| X     |             |       |                |   |  |   |   |   |  |  |   |
| N     |             |       |                |   |  |   | O |   |  |  |   |
| N     |             |       |                |   |  | O |   |   |  |  |   |
| N     |             |       |                | O |  |   |   |   |  |  |   |
| N     |             |       |                | O |  |   |   |   |  |  |   |
| N     |             |       |                |   |  | O |   |   |  |  |   |
|       |             | -     |                | - |  | - |   | - |  |  | - |

| G2-91 | 5:6:8:12:16 | 1.275 | B2,D2,G2,D3,G3 |   |  |   |  |   |  |
|-------|-------------|-------|----------------|---|--|---|--|---|--|
| N     |             |       | O              |   |  |   |  |   |  |
| N     |             |       | O              |   |  |   |  |   |  |
| O     |             |       |                |   |  |   |  |   |  |
| O     |             |       |                |   |  |   |  |   |  |
| N     | O           |       |                |   |  |   |  |   |  |
| X     |             |       |                |   |  |   |  |   |  |
|       |             | -     |                | - |  | - |  | - |  |

| G2-92 | 5:4:10:12 | 1.267 | B3,G2,B4,D4 |   |  |   |   |   |   |
|-------|-----------|-------|-------------|---|--|---|---|---|---|
| N     |           |       |             |   |  |   | O |   |   |
| N     |           |       |             |   |  |   |   |   | O |
| O     |           |       |             |   |  |   |   |   |   |
| N     |           |       |             |   |  |   | O |   |   |
| X     |           |       |             |   |  |   |   |   |   |
| X     |           |       |             |   |  |   |   |   |   |
|       |           | -     |             | - |  | - |   | - |   |

| G2-93 | 5:8:10:12:16:20 | 1.242 | B2,G2,B3,D3,G3,B4 |   |   |   |   |   |  |
|-------|-----------------|-------|-------------------|---|---|---|---|---|--|
| N     |                 |       | O                 |   |   |   |   |   |  |
| N     |                 |       |                   | O |   |   |   |   |  |
| N     |                 |       | O                 |   |   |   |   |   |  |
| N     |                 |       |                   |   | O |   |   |   |  |
| N     |                 |       |                   |   |   | O |   |   |  |
| N     |                 |       | O                 |   |   |   | O |   |  |
|       |                 | -     |                   | - |   | - |   | - |  |

| G2-94 | 5:6:8:8 | 1.233 | B2,D2,G2,G2 |   |  |   |  |   |  |
|-------|---------|-------|-------------|---|--|---|--|---|--|
| X     |         |       |             |   |  |   |  |   |  |
| X     |         |       |             |   |  |   |  |   |  |
| O     |         |       |             |   |  |   |  |   |  |
| N     |         |       | O           |   |  |   |  |   |  |
| N     |         |       | O           |   |  |   |  |   |  |
| N     |         |       |             | O |  |   |  |   |  |
|       |         | -     |             | - |  | - |  | - |  |

| G2-95 | 5:8:10:8:16 | 1.225 | B2,G2,B3,G2,G3 |   |  |   |   |   |  |
|-------|-------------|-------|----------------|---|--|---|---|---|--|
| X     |             |       |                |   |  |   |   |   |  |
| N     |             |       |                |   |  | O |   |   |  |
| O     |             |       |                |   |  |   |   |   |  |
| N     |             |       |                |   |  |   | O |   |  |
| N     |             |       |                |   |  |   |   | O |  |
| N     |             |       |                |   |  | O |   |   |  |
|       |             | -     |                | - |  | - |   | - |  |



|       |              |       |                |   |  |   |  |   |   |  |   |
|-------|--------------|-------|----------------|---|--|---|--|---|---|--|---|
| G2-96 | 5:8:10:12:10 | 1.217 | B2,G2,B3,D3,B3 |   |  |   |  |   |   |  |   |
| X     |              |       |                |   |  |   |  |   |   |  |   |
| O     |              |       |                |   |  |   |  |   |   |  |   |
| N     |              |       |                |   |  | O |  |   |   |  |   |
| N     |              |       |                |   |  |   |  | O |   |  |   |
| N     |              |       |                |   |  |   |  |   | O |  |   |
| N     |              |       |                |   |  | O |  |   |   |  |   |
|       |              | -     |                | - |  | - |  | - |   |  | - |

|       |          |       |             |   |  |   |  |   |  |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|--|---|
| G2-97 | 5:6:8:10 | 1.183 | B2,D2,G2,B3 |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| N     | O        |       |             |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
|       |          | -     |             | - |  | - |  | - |  |  | - |

|       |              |       |                |   |  |   |  |   |  |  |   |
|-------|--------------|-------|----------------|---|--|---|--|---|--|--|---|
| G2-98 | 5:8:10:10:16 | 1.175 | B2,G2,B3,B3,G3 |   |  |   |  |   |  |  |   |
| N     |              | O     |                |   |  |   |  |   |  |  |   |
| O     |              |       |                |   |  |   |  |   |  |  |   |
| N     |              |       | O              |   |  |   |  |   |  |  |   |
| N     |              |       |                | O |  |   |  |   |  |  |   |
| N     | O            |       |                |   |  |   |  |   |  |  |   |
| X     |              |       |                |   |  |   |  |   |  |  |   |
|       |              | -     |                | - |  | - |  | - |  |  | - |

|       |       |      |          |   |  |   |  |   |   |  |   |
|-------|-------|------|----------|---|--|---|--|---|---|--|---|
| G2-99 | 4:5:8 | 1.15 | G2,B3,G3 |   |  |   |  |   |   |  |   |
| X     |       |      |          |   |  |   |  |   |   |  |   |
| X     |       |      |          |   |  |   |  |   |   |  |   |
| N     |       |      |          |   |  |   |  |   |   |  | O |
| N     |       |      |          |   |  |   |  | O |   |  |   |
| N     |       |      |          |   |  |   |  |   | O |  |   |
| X     |       |      |          |   |  |   |  |   |   |  |   |
|       |       | -    |          | - |  | - |  | - |   |  | - |

|        |          |      |             |   |   |   |  |   |  |  |   |
|--------|----------|------|-------------|---|---|---|--|---|--|--|---|
| G2-100 | 5:6:8:12 | 1.15 | B2,D2,G2,D3 |   |   |   |  |   |  |  |   |
| X      |          |      |             |   |   |   |  |   |  |  |   |
| X      |          |      |             |   |   |   |  |   |  |  |   |
| N      |          |      |             |   |   | O |  |   |  |  |   |
| N      |          |      |             |   | O |   |  |   |  |  |   |
| N      |          |      |             |   | O |   |  |   |  |  |   |
| N      |          |      |             |   |   | O |  |   |  |  |   |
|        |          | -    |             | - |   | - |  | - |  |  | - |

| G2-101 | 5:6:8:12 | 1.15 | B2,D2,G2,D3 |   |  |   |  |
|--------|----------|------|-------------|---|--|---|--|
| X      |          |      |             |   |  |   |  |
| N      |          | O    |             |   |  |   |  |
| O      |          |      |             |   |  |   |  |
| O      |          |      |             |   |  |   |  |
| N      | O        |      |             |   |  |   |  |
| X      |          |      |             |   |  |   |  |
|        |          | -    |             | - |  | - |  |

| G2-102 | 5:8:10:12:16 | 1.142 | B2,G2,B3,D3,G3 |   |   |   |  |
|--------|--------------|-------|----------------|---|---|---|--|
| X      |              |       |                |   |   |   |  |
| N      |              |       |                | O |   |   |  |
| N      |              |       |                | O |   |   |  |
| N      |              |       |                |   | O |   |  |
| N      |              |       |                |   |   | O |  |
| N      |              |       |                | O |   |   |  |
|        |              | -     |                | - |   | - |  |

| G2-103 | 5:8:10:8 | 1.1 | B2,G2,B3,G2 |   |   |   |  |
|--------|----------|-----|-------------|---|---|---|--|
| X      |          |     |             |   |   |   |  |
| X      |          |     |             |   |   |   |  |
| O      |          |     |             |   |   |   |  |
| N      |          |     |             |   | O |   |  |
| N      |          |     |             |   |   | O |  |
| N      |          |     |             | O |   |   |  |
|        |          | -   |             | - |   | - |  |

| G2-104 | 5:8:8:10 | 1.1 | B2,G2,G2,B3 |   |  |   |  |
|--------|----------|-----|-------------|---|--|---|--|
| X      |          |     |             |   |  |   |  |
| O      |          |     |             |   |  |   |  |
| O      |          |     |             |   |  |   |  |
| N      |          | O   |             |   |  |   |  |
| N      | O        |     |             |   |  |   |  |
| X      |          |     |             |   |  |   |  |
|        |          | -   |             | - |  | - |  |

| G2-105 | 5:8:8:12 | 1.067 | B2,G2,G2,D3 |   |  |   |  |
|--------|----------|-------|-------------|---|--|---|--|
| X      |          |       |             |   |  |   |  |
| N      |          | O     |             |   |  |   |  |
| O      |          |       |             |   |  |   |  |
| N      |          |       | O           |   |  |   |  |
| N      | O        |       |             |   |  |   |  |
| X      |          |       |             |   |  |   |  |
|        |          | -     |             | - |  | - |  |

|        |           |      |             |   |  |   |  |   |  |  |   |
|--------|-----------|------|-------------|---|--|---|--|---|--|--|---|
| G2-106 | 5:8:10:10 | 1.05 | B2,G2,B3,B3 |   |  |   |  |   |  |  |   |
| X      |           |      |             |   |  |   |  |   |  |  |   |
| O      |           |      |             |   |  |   |  |   |  |  |   |
| N      |           |      | O           |   |  |   |  |   |  |  |   |
| N      |           |      |             | O |  |   |  |   |  |  |   |
| N      | O         |      |             |   |  |   |  |   |  |  |   |
| X      |           |      |             |   |  |   |  |   |  |  |   |
|        |           | -    |             | - |  | - |  | - |  |  | - |

|        |           |       |             |   |  |   |  |   |   |  |   |
|--------|-----------|-------|-------------|---|--|---|--|---|---|--|---|
| G2-107 | 5:8:10:12 | 1.017 | B2,G2,B3,D3 |   |  |   |  |   |   |  |   |
| X      |           |       |             |   |  |   |  |   |   |  |   |
| X      |           |       |             |   |  |   |  |   |   |  |   |
| N      |           |       |             |   |  | O |  |   |   |  |   |
| N      |           |       |             |   |  |   |  | O |   |  |   |
| N      |           |       |             |   |  |   |  |   | O |  |   |
| N      |           |       |             |   |  | O |  |   |   |  |   |
|        |           | -     |             | - |  | - |  | - |   |  | - |

|        |           |       |             |   |   |   |  |   |  |  |   |
|--------|-----------|-------|-------------|---|---|---|--|---|--|--|---|
| G2-108 | 5:8:10:12 | 1.017 | B2,G2,B3,D3 |   |   |   |  |   |  |  |   |
| X      |           |       |             |   |   |   |  |   |  |  |   |
| N      |           |       | O           |   |   |   |  |   |  |  |   |
| N      |           |       |             | O |   |   |  |   |  |  |   |
| N      |           |       |             |   | O |   |  |   |  |  |   |
| N      | O         |       |             |   |   |   |  |   |  |  |   |
| X      |           |       |             |   |   |   |  |   |  |  |   |
|        |           | -     |             | - |   | - |  | - |  |  | - |

| G#2-1 | 2:3:4 | 2.167 | G#2,D#3,G#3 |   |  |   |   |   |  |  |   |
|-------|-------|-------|-------------|---|--|---|---|---|--|--|---|
| X     |       |       |             |   |  |   |   |   |  |  |   |
| N     |       |       |             |   |  |   |   | o |  |  |   |
| N     |       |       |             |   |  |   | o |   |  |  |   |
| N     |       |       |             |   |  | o |   |   |  |  |   |
| X     |       |       |             |   |  |   |   |   |  |  |   |
| X     |       |       |             |   |  |   |   |   |  |  |   |
|       |       | -     |             | - |  | - |   | - |  |  | - |

| G#2-2 | 2:3:4 | 2.167 | G#2,D#3,G#3 |   |  |   |  |   |  |  |   |
|-------|-------|-------|-------------|---|--|---|--|---|--|--|---|
| N     |       |       | o           |   |  |   |  |   |  |  |   |
| N     |       |       | o           |   |  |   |  |   |  |  |   |
| N     | o     |       |             |   |  |   |  |   |  |  |   |
| X     |       |       |             |   |  |   |  |   |  |  |   |
| X     |       |       |             |   |  |   |  |   |  |  |   |
| X     |       |       |             |   |  |   |  |   |  |  |   |
|       |       | -     |             | - |  | - |  | - |  |  | - |

| G#2-3 | 3:4:6:8:9 | 1.972 | D#2,G#2,D#3,G#3,A#4 |   |  |   |   |   |  |  |   |
|-------|-----------|-------|---------------------|---|--|---|---|---|--|--|---|
| N     |           |       | o                   |   |  |   | o |   |  |  |   |
| N     |           |       |                     |   |  |   |   | o |  |  |   |
| N     |           |       |                     |   |  | o |   |   |  |  |   |
| N     |           |       | o                   |   |  |   |   |   |  |  |   |
| N     |           |       | o                   |   |  |   |   |   |  |  |   |
| X     |           |       |                     |   |  |   |   |   |  |  |   |
|       |           | -     |                     | - |  | - |   | - |  |  | - |

| G#2-4 | 3:4:6:8 | 1.75 | D#2,G#2,D#3,G#3 |   |   |   |   |   |  |  |   |
|-------|---------|------|-----------------|---|---|---|---|---|--|--|---|
| X     |         |      |                 |   |   |   | o |   |  |  |   |
| N     |         |      |                 |   |   |   |   | o |  |  |   |
| N     |         |      |                 |   |   | o |   |   |  |  |   |
| N     |         |      |                 |   | o |   |   |   |  |  |   |
| N     |         |      |                 |   | o |   |   |   |  |  |   |
| X     |         |      |                 |   |   |   |   |   |  |  |   |
|       |         | -    |                 | - |   | - |   | - |  |  | - |

| G#2-5 | 3:4:6:8 | 1.75 | D#2,G#2,D#3,G#3 |   |  |   |  |   |  |  |   |
|-------|---------|------|-----------------|---|--|---|--|---|--|--|---|
| N     |         |      | o               |   |  |   |  |   |  |  |   |
| N     |         |      | o               |   |  |   |  |   |  |  |   |
| N     | o       |      |                 |   |  |   |  |   |  |  |   |
| N     | o       |      |                 |   |  |   |  |   |  |  |   |
| X     |         |      |                 |   |  |   |  |   |  |  |   |
| X     |         |      |                 |   |  |   |  |   |  |  |   |
|       |         | -    |                 | - |  | - |  | - |  |  | - |

|       |       |     |             |   |  |   |  |   |  |  |  |   |
|-------|-------|-----|-------------|---|--|---|--|---|--|--|--|---|
| G#2-6 | 3:4:6 | 1.5 | D#2,G#2,D#3 |   |  |   |  |   |  |  |  |   |
| X     |       |     |             |   |  |   |  |   |  |  |  |   |
| N     |       |     |             |   |  |   |  |   |  |  |  |   |
| N     | O     |     |             |   |  |   |  |   |  |  |  |   |
| N     | O     |     |             |   |  |   |  |   |  |  |  |   |
| X     |       |     |             |   |  |   |  |   |  |  |  |   |
| X     |       |     |             |   |  |   |  |   |  |  |  |   |
|       |       | -   |             | - |  | - |  | - |  |  |  | - |

|       |         |       |                 |   |  |   |  |   |   |  |  |   |
|-------|---------|-------|-----------------|---|--|---|--|---|---|--|--|---|
| G#2-7 | 4:6:8:9 | 1.306 | G#2,D#3,G#3,A#4 |   |  |   |  |   |   |  |  |   |
| N     |         |       |                 |   |  | O |  |   | O |  |  |   |
| N     |         |       |                 |   |  |   |  |   |   |  |  |   |
| N     |         |       |                 |   |  |   |  | O |   |  |  |   |
| N     |         |       |                 |   |  | O |  |   |   |  |  |   |
| X     |         |       |                 |   |  |   |  |   |   |  |  |   |
| X     |         |       |                 |   |  |   |  |   |   |  |  |   |
|       |         | -     |                 | - |  | - |  | - |   |  |  | - |

|       |           |      |                 |   |  |   |  |   |  |  |  |   |
|-------|-----------|------|-----------------|---|--|---|--|---|--|--|--|---|
| G#2-8 | 8:9:12:18 | 0.75 | G#2,A#3,D#3,A#4 |   |  |   |  |   |  |  |  |   |
| N     |           |      |                 |   |  | O |  |   |  |  |  |   |
| N     |           |      | O               |   |  |   |  |   |  |  |  |   |
| N     |           |      |                 |   |  |   |  |   |  |  |  |   |
| N     |           |      |                 |   |  | O |  |   |  |  |  |   |
| X     |           |      |                 |   |  |   |  |   |  |  |  |   |
| X     |           |      |                 |   |  |   |  |   |  |  |  |   |
|       |           | -    |                 | - |  | - |  | - |  |  |  | - |

| A3-1 | 2:3:4:3 | 2.833 | A3,E3,A4,E3 |   |   |   |   |
|------|---------|-------|-------------|---|---|---|---|
| O    |         |       |             |   |   |   |   |
| N    |         |       |             |   |   | O |   |
| N    |         |       |             |   |   | O |   |
| N    |         |       |             |   | O |   |   |
| X    |         |       |             |   |   |   |   |
| X    |         |       |             |   |   |   |   |
|      |         | -     | -           | - | - |   | - |

| A3-2 | 2:3:4:5 | 2.567 | A3,E3,A4,C#4 |   |   |   |   |
|------|---------|-------|--------------|---|---|---|---|
| N    |         |       |              |   | O |   |   |
| N    |         |       |              |   | O | O |   |
| N    |         |       |              |   | O |   |   |
| N    |         |       |              | O |   |   |   |
| X    |         |       |              |   |   |   |   |
| X    |         |       |              |   |   |   |   |
|      |         | -     | -            | - | - |   | - |

| A3-3 | 3:4:5:6:6 | 2.233 | E2,A3,C#3,E3,E3 |   |   |  |   |
|------|-----------|-------|-----------------|---|---|--|---|
| O    |           |       |                 |   |   |  |   |
| N    |           |       | O               |   |   |  |   |
| N    |           |       | O               |   |   |  |   |
| N    |           |       |                 | O |   |  |   |
| N    |           |       |                 | O |   |  |   |
| X    |           |       |                 |   |   |  |   |
|      |           | -     | -               | - | - |  | - |

| A3-4 | 2:3:4 | 2.167 | A3,E3,A4 |   |   |   |   |
|------|-------|-------|----------|---|---|---|---|
| X    |       |       |          |   |   |   |   |
| N    |       |       |          |   |   | O |   |
| N    |       |       |          |   | O |   |   |
| N    |       |       |          | O |   |   |   |
| X    |       |       |          |   |   |   |   |
| X    |       |       |          |   |   |   |   |
|      |       | -     | -        | - | - |   | - |

| A3-5 | 2:3:4 | 2.167 | A3,E3,A4 |   |   |  |   |
|------|-------|-------|----------|---|---|--|---|
| N    |       |       | O        |   |   |  |   |
| N    |       |       | O        |   |   |  |   |
| N    | O     |       |          |   |   |  |   |
| X    |       |       |          |   |   |  |   |
| X    |       |       |          |   |   |  |   |
| X    |       |       |          |   |   |  |   |
|      |       | -     | -        | - | - |  | - |

|      |           |       |                 |   |   |   |  |  |  |  |  |
|------|-----------|-------|-----------------|---|---|---|--|--|--|--|--|
| A3-6 | 3:4:5:6:8 | 2.145 | E2,A3,C#3,E3,A4 |   |   |   |  |  |  |  |  |
| N    |           |       |                 | O |   |   |  |  |  |  |  |
| N    |           |       |                 | O |   |   |  |  |  |  |  |
| N    |           |       |                 |   | O |   |  |  |  |  |  |
| N    |           |       |                 |   |   | O |  |  |  |  |  |
| N    |           |       |                 |   |   | O |  |  |  |  |  |
| X    |           |       |                 |   |   |   |  |  |  |  |  |
|      |           |       |                 |   |   |   |  |  |  |  |  |

|      |           |       |                |  |  |  |   |   |   |  |  |
|------|-----------|-------|----------------|--|--|--|---|---|---|--|--|
| A3-7 | 3:4:6:8:6 | 2.083 | E2,A3,E3,A4,E3 |  |  |  |   |   |   |  |  |
| O    |           |       |                |  |  |  |   |   |   |  |  |
| N    |           |       |                |  |  |  |   |   | O |  |  |
| N    |           |       |                |  |  |  |   | O |   |  |  |
| N    |           |       |                |  |  |  | O |   |   |  |  |
| N    |           |       |                |  |  |  | O |   |   |  |  |
| X    |           |       |                |  |  |  |   |   |   |  |  |
|      |           |       |                |  |  |  |   |   |   |  |  |

|      |           |       |                |  |  |   |  |   |   |  |  |
|------|-----------|-------|----------------|--|--|---|--|---|---|--|--|
| A3-8 | 3:4:6:8:9 | 1.972 | E2,A3,E3,A4,B4 |  |  |   |  |   |   |  |  |
| N    |           |       |                |  |  | O |  |   |   |  |  |
| N    |           |       |                |  |  |   |  |   | O |  |  |
| N    |           |       |                |  |  |   |  | O |   |  |  |
| N    |           |       |                |  |  | O |  |   |   |  |  |
| N    |           |       |                |  |  | O |  |   |   |  |  |
| X    |           |       |                |  |  |   |  |   |   |  |  |
|      |           |       |                |  |  |   |  |   |   |  |  |

|      |            |      |                 |  |  |   |  |   |  |   |  |
|------|------------|------|-----------------|--|--|---|--|---|--|---|--|
| A3-9 | 3:4:6:8:10 | 1.95 | E2,A3,E3,A4,C#4 |  |  |   |  |   |  |   |  |
| N    |            |      |                 |  |  |   |  | O |  |   |  |
| N    |            |      |                 |  |  |   |  | O |  | O |  |
| N    |            |      |                 |  |  |   |  | O |  |   |  |
| N    |            |      |                 |  |  | O |  |   |  |   |  |
| N    |            |      |                 |  |  | O |  |   |  |   |  |
| X    |            |      |                 |  |  |   |  |   |  |   |  |
|      |            |      |                 |  |  |   |  |   |  |   |  |

|       |               |       |                     |   |   |   |  |  |  |  |  |
|-------|---------------|-------|---------------------|---|---|---|--|--|--|--|--|
| A3-10 | 3:5:8:10:9:12 | 1.906 | E1,C#2,A3,C#3,B3,E3 |   |   |   |  |  |  |  |  |
| O     |               |       |                     |   |   |   |  |  |  |  |  |
| O     |               |       |                     |   |   |   |  |  |  |  |  |
| N     |               |       |                     |   | O |   |  |  |  |  |  |
| N     |               |       |                     |   |   | O |  |  |  |  |  |
| N     |               |       |                     | O |   |   |  |  |  |  |  |
| O     |               |       |                     |   |   |   |  |  |  |  |  |
|       |               |       |                     |   |   |   |  |  |  |  |  |

[illegible][illegible]

|       |  |         |  |     |              |   |   |   |  |  |  |
|-------|--|---------|--|-----|--------------|---|---|---|--|--|--|
| A3-13 |  | 3:4:5:6 |  | 1.9 | E2,A3,C#3,E3 |   |   |   |  |  |  |
| X     |  |         |  |     |              |   |   |   |  |  |  |
| N     |  |         |  |     | O            |   |   |   |  |  |  |
| N     |  |         |  |     |              | O |   |   |  |  |  |
| N     |  |         |  |     |              |   | O |   |  |  |  |
| N     |  |         |  |     |              |   | O |   |  |  |  |
| X     |  |         |  |     |              |   |   |   |  |  |  |
|       |  | -       |  | -   |              | - |   | - |  |  |  |

|       |               |       |                    |
|-------|---------------|-------|--------------------|
| A3-14 | 3:5:8:9:12:12 | 1.872 | E1,C#2,A3,B3,E3,E3 |
| O     |               |       |                    |
| N     |               | O     |                    |
| N     |               | O     |                    |
| N     |               |       | O                  |
| N     |               | O     |                    |
| O     |               |       |                    |

[illegible]



|       |              |       |                   |   |  |   |  |   |  |  |  |   |
|-------|--------------|-------|-------------------|---|--|---|--|---|--|--|--|---|
| A3-16 | 3:6:8:9:9:12 | 1.861 | E1,E2,A3,B3,B3,E3 |   |  |   |  |   |  |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |  |   |
| N     |              |       | O                 |   |  |   |  |   |  |  |  |   |
| N     |              |       |                   |   |  | O |  |   |  |  |  |   |
| N     |              |       |                   |   |  | O |  |   |  |  |  |   |
| O     |              |       |                   |   |  |   |  |   |  |  |  |   |
|       |              | -     |                   | - |  | - |  | - |  |  |  | - |

|       |            |      |                  |   |  |   |  |   |  |  |  |   |
|-------|------------|------|------------------|---|--|---|--|---|--|--|--|---|
| A3-17 | 3:5:6:8:10 | 1.85 | E1,C#2,E2,A3,C#3 |   |  |   |  |   |  |  |  |   |
| X     |            |      |                  |   |  |   |  |   |  |  |  |   |
| N     |            | O    |                  |   |  |   |  |   |  |  |  |   |
| N     |            | O    |                  |   |  |   |  |   |  |  |  |   |
| N     |            | O    |                  |   |  |   |  |   |  |  |  |   |
| N     |            |      | O                |   |  |   |  |   |  |  |  |   |
| O     |            |      |                  |   |  |   |  |   |  |  |  |   |
|       |            | -    |                  | - |  | - |  | - |  |  |  | - |

|       |                |      |                     |   |   |   |  |   |  |  |  |   |
|-------|----------------|------|---------------------|---|---|---|--|---|--|--|--|---|
| A3-18 | 3:5:8:10:12:12 | 1.85 | E1,C#2,A3,C#3,E3,E3 |   |   |   |  |   |  |  |  |   |
| O     |                |      |                     | O |   |   |  |   |  |  |  |   |
| N     |                |      |                     |   | O |   |  |   |  |  |  |   |
| N     |                |      |                     |   |   | O |  |   |  |  |  |   |
| N     |                |      |                     | O |   |   |  |   |  |  |  |   |
| N     |                |      |                     |   |   |   |  |   |  |  |  |   |
| O     |                |      |                     |   |   |   |  |   |  |  |  |   |
|       |                | -    |                     | - |   | - |  | - |  |  |  | - |

|       |               |       |                    |   |   |   |  |   |  |  |  |   |
|-------|---------------|-------|--------------------|---|---|---|--|---|--|--|--|---|
| A3-19 | 3:6:8:10:9:12 | 1.839 | E1,E2,A3,C#3,B3,E3 |   |   |   |  |   |  |  |  |   |
| O     |               |       |                    |   |   |   |  |   |  |  |  |   |
| O     |               |       |                    |   |   |   |  |   |  |  |  |   |
| N     |               |       |                    |   | O |   |  |   |  |  |  |   |
| N     |               |       |                    |   |   | O |  |   |  |  |  |   |
| N     |               |       |                    |   |   | O |  |   |  |  |  |   |
| O     |               |       |                    |   |   |   |  |   |  |  |  |   |
|       |               | -     |                    | - |   | - |  | - |  |  |  | - |

|       |         |       |              |   |  |   |  |   |  |  |  |   |
|-------|---------|-------|--------------|---|--|---|--|---|--|--|--|---|
| A3-20 | 3:4:5:8 | 1.817 | E2,A3,C#3,A4 |   |  |   |  |   |  |  |  |   |
| N     |         |       | O            |   |  |   |  |   |  |  |  |   |
| N     | O       |       |              |   |  |   |  |   |  |  |  |   |
| N     | O       |       |              |   |  |   |  |   |  |  |  |   |
| N     | O       |       |              |   |  |   |  |   |  |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |  |   |
| X     |         |       |              |   |  |   |  |   |  |  |  |   |
|       |         | -     |              | - |  | - |  | - |  |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| A3-21 | 3:4:5:8 | 1.817 | E2,A3,C#3,E3 |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| N     |         |       | O            |   |   |  |  |  |   |
| N     |         |       |              | O |   |  |  |  |   |
| N     |         |       |              |   | O |  |  |  |   |
| N     |         |       |              |   | O |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |           |       |                 |   |   |  |   |   |   |
|-------|-----------|-------|-----------------|---|---|--|---|---|---|
| A3-22 | 4:5:6:8:6 | 1.817 | A3,C#3,E3,A4,E3 |   |   |  |   |   |   |
| O     |           |       |                 |   |   |  |   |   |   |
| N     |           |       |                 |   |   |  |   | O |   |
| N     |           |       |                 |   |   |  | O |   |   |
| N     |           |       |                 |   |   |  |   | O |   |
| N     |           |       |                 |   |   |  |   |   | O |
| X     |           |       |                 |   |   |  |   |   |   |
|       |           | -     | -               | - | - |  |   |   | - |

|       |            |       |                 |   |   |  |  |  |   |
|-------|------------|-------|-----------------|---|---|--|--|--|---|
| A3-23 | 3:5:6:8:12 | 1.817 | E1,C#2,E2,A3,E3 |   |   |  |  |  |   |
| X     |            |       |                 |   |   |  |  |  |   |
| N     |            |       | O               |   |   |  |  |  |   |
| N     | O          |       |                 |   |   |  |  |  |   |
| N     | O          |       |                 |   |   |  |  |  |   |
| N     |            | O     |                 |   |   |  |  |  |   |
| O     |            |       |                 |   |   |  |  |  |   |
|       |            | -     | -               | - | - |  |  |  | - |

|       |               |       |                   |   |   |   |   |  |   |
|-------|---------------|-------|-------------------|---|---|---|---|--|---|
| A3-24 | 3:6:8:12:9:12 | 1.806 | E1,E2,A3,E3,B3,E3 |   |   |   |   |  |   |
| O     |               |       |                   |   |   |   |   |  |   |
| O     |               |       |                   |   |   |   |   |  |   |
| N     |               |       |                   |   |   |   | O |  |   |
| N     |               |       |                   |   |   | O |   |  |   |
| N     |               |       |                   |   |   | O |   |  |   |
| O     |               |       |                   |   |   |   |   |  |   |
|       |               | -     | -                 | - | - |   |   |  | - |

|       |                |       |                    |   |   |  |  |  |   |
|-------|----------------|-------|--------------------|---|---|--|--|--|---|
| A3-25 | 3:6:8:10:12:12 | 1.783 | E1,E2,A3,C#3,E3,E3 |   |   |  |  |  |   |
| O     |                |       |                    |   |   |  |  |  |   |
| N     |                |       | O                  |   |   |  |  |  |   |
| N     |                |       |                    | O |   |  |  |  |   |
| N     |                |       |                    |   | O |  |  |  |   |
| N     |                |       |                    |   | O |  |  |  |   |
| O     |                |       |                    |   |   |  |  |  |   |
|       |                | -     | -                  | - | - |  |  |  | - |

| A3-26 | 3:4:6:8 | 1.75 | E2,A3,E3,A4 |   |  |   |  |   |   |  |   |
|-------|---------|------|-------------|---|--|---|--|---|---|--|---|
| X     |         |      |             |   |  |   |  |   |   |  |   |
| N     |         |      |             |   |  |   |  |   | O |  |   |
| N     |         |      |             |   |  |   |  | O |   |  |   |
| N     |         |      |             |   |  | O |  |   |   |  |   |
| N     |         |      |             |   |  | O |  |   |   |  |   |
| X     |         |      |             |   |  |   |  |   |   |  |   |
|       |         | -    |             | - |  | - |  | - |   |  | - |

| A3-27 | 3:4:6:8 | 1.75 | E2,A3,E3,A4 |   |  |   |  |   |  |  |   |
|-------|---------|------|-------------|---|--|---|--|---|--|--|---|
| N     |         |      | O           |   |  |   |  |   |  |  |   |
| N     |         |      | O           |   |  |   |  |   |  |  |   |
| N     | O       |      |             |   |  |   |  |   |  |  |   |
| N     | O       |      |             |   |  |   |  |   |  |  |   |
| X     |         |      |             |   |  |   |  |   |  |  |   |
| X     |         |      |             |   |  |   |  |   |  |  |   |
|       |         | -    |             | - |  | - |  | - |  |  | - |

| A3-28 | 3:5:8:10:9 | 1.739 | E1,C#2,A3,C#3,B3 |   |   |   |  |   |  |  |   |
|-------|------------|-------|------------------|---|---|---|--|---|--|--|---|
| X     |            |       |                  |   |   |   |  |   |  |  |   |
| O     |            |       |                  |   |   |   |  |   |  |  |   |
| N     |            |       |                  |   | O |   |  |   |  |  |   |
| N     |            |       |                  |   |   | O |  |   |  |  |   |
| N     |            |       | O                |   |   |   |  |   |  |  |   |
| O     |            |       |                  |   |   |   |  |   |  |  |   |
|       |            | -     |                  | - |   | - |  | - |  |  | - |

| A3-29 | 3:6:8:10:9 | 1.672 | E1,E2,A3,C#3,B3 |   |   |   |  |   |  |  |   |
|-------|------------|-------|-----------------|---|---|---|--|---|--|--|---|
| X     |            |       |                 |   |   |   |  |   |  |  |   |
| O     |            |       |                 |   |   |   |  |   |  |  |   |
| N     |            |       |                 |   | O |   |  |   |  |  |   |
| N     |            |       |                 |   |   | O |  |   |  |  |   |
| N     |            |       |                 |   |   | O |  |   |  |  |   |
| O     |            |       |                 |   |   |   |  |   |  |  |   |
|       |            | -     |                 | - |   | - |  | - |  |  | - |

| A3-30 | 3:8:10:12:9:12 | 1.672 | E1,A3,C#3,E3,B3,E3 |   |  |   |   |   |   |   |   |
|-------|----------------|-------|--------------------|---|--|---|---|---|---|---|---|
| O     |                |       |                    |   |  |   |   |   |   |   |   |
| O     |                |       |                    |   |  |   |   |   |   |   |   |
| N     |                |       |                    |   |  |   | O |   |   |   |   |
| N     |                |       |                    |   |  |   |   |   | O |   |   |
| N     |                |       |                    |   |  |   |   |   |   | O |   |
| O     |                |       |                    |   |  |   |   |   |   |   |   |
|       |                | -     |                    | - |  | - |   | - |   |   | - |

|       |         |      |              |   |   |  |  |  |  |  |   |
|-------|---------|------|--------------|---|---|--|--|--|--|--|---|
| A3-31 | 3:5:6:8 | 1.65 | E1,C#2,E2,A3 |   |   |  |  |  |  |  |   |
| X     |         |      |              |   |   |  |  |  |  |  |   |
| X     |         |      |              |   |   |  |  |  |  |  |   |
| N     | O       |      |              |   |   |  |  |  |  |  |   |
| N     | O       |      |              |   |   |  |  |  |  |  |   |
| N     |         | O    |              |   |   |  |  |  |  |  |   |
| O     |         |      |              |   |   |  |  |  |  |  |   |
|       |         | -    | -            | - | - |  |  |  |  |  | - |

|       |         |       |              |   |   |   |  |  |  |  |   |
|-------|---------|-------|--------------|---|---|---|--|--|--|--|---|
| A3-32 | 4:5:6:6 | 1.567 | A3,C#3,E3,E3 |   |   |   |  |  |  |  |   |
| O     |         |       |              |   |   |   |  |  |  |  |   |
| N     |         |       | O            |   | O |   |  |  |  |  |   |
| N     |         |       |              |   | O |   |  |  |  |  |   |
| N     |         |       |              |   |   | O |  |  |  |  |   |
| X     |         |       |              |   |   |   |  |  |  |  |   |
| X     |         |       |              |   |   |   |  |  |  |  |   |
|       |         | -     | -            | - | - |   |  |  |  |  | - |

|       |         |       |              |   |   |   |  |  |  |  |   |
|-------|---------|-------|--------------|---|---|---|--|--|--|--|---|
| A3-33 | 3:5:8:9 | 1.539 | E1,C#2,A3,B3 |   |   |   |  |  |  |  |   |
| X     |         |       |              |   |   |   |  |  |  |  |   |
| X     |         |       |              |   |   |   |  |  |  |  |   |
| N     |         |       | O            |   |   |   |  |  |  |  |   |
| N     |         |       |              |   |   | O |  |  |  |  |   |
| N     |         |       | O            |   |   |   |  |  |  |  |   |
| O     |         |       |              |   |   |   |  |  |  |  |   |
|       |         | -     | -            | - | - |   |  |  |  |  | - |

|       |          |       |               |   |   |   |  |  |  |  |   |
|-------|----------|-------|---------------|---|---|---|--|--|--|--|---|
| A3-34 | 3:5:8:10 | 1.517 | E1,C#2,A3,C#3 |   |   |   |  |  |  |  |   |
| X     |          |       |               |   |   |   |  |  |  |  |   |
| X     |          |       |               |   |   |   |  |  |  |  |   |
| N     |          |       |               |   | O |   |  |  |  |  |   |
| N     |          |       |               |   |   | O |  |  |  |  |   |
| N     |          |       | O             |   |   |   |  |  |  |  |   |
| O     |          |       |               |   |   |   |  |  |  |  |   |
|       |          | -     | -             | - | - |   |  |  |  |  | - |

|       |       |     |          |   |   |  |  |  |  |  |   |
|-------|-------|-----|----------|---|---|--|--|--|--|--|---|
| A3-35 | 3:4:6 | 1.5 | E2,A3,E3 |   |   |  |  |  |  |  |   |
| X     |       |     |          |   |   |  |  |  |  |  |   |
| N     |       |     |          | O |   |  |  |  |  |  |   |
| N     | O     |     |          |   |   |  |  |  |  |  |   |
| N     | O     |     |          |   |   |  |  |  |  |  |   |
| X     |       |     |          |   |   |  |  |  |  |  |   |
| X     |       |     |          |   |   |  |  |  |  |  |   |
|       |       | -   | -        | - | - |  |  |  |  |  | - |

| A3-36 | 4:5:6:8 | 1.483 | A3,C#3,E3,A4 |   |   |  |   |   |   |
|-------|---------|-------|--------------|---|---|--|---|---|---|
| X     |         |       |              |   |   |  |   |   |   |
| N     |         |       |              |   |   |  |   | O |   |
| N     |         |       |              |   |   |  | O |   |   |
| N     |         |       |              |   |   |  |   | O |   |
| N     |         |       |              |   |   |  |   |   | O |
| X     |         |       |              |   |   |  |   |   |   |
|       |         | -     | -            | - | - |  |   |   | - |

| A3-37 | 4:5:6:8 | 1.483 | A3,C#3,E3,A4 |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| N     |         |       | O            |   |   |  |  |  |   |
| N     |         |       | O            |   |   |  |  |  |   |
| N     |         |       |              | O |   |  |  |  |   |
| N     |         |       |              |   | O |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

| A3-38 | 3:6:8:9 | 1.472 | E1,E2,A3,B3 |   |   |  |  |  |   |
|-------|---------|-------|-------------|---|---|--|--|--|---|
| X     |         |       |             |   |   |  |  |  |   |
| X     |         |       |             |   |   |  |  |  |   |
| N     |         |       | O           |   |   |  |  |  |   |
| N     |         |       |             |   | O |  |  |  |   |
| N     |         |       |             |   | O |  |  |  |   |
| O     |         |       |             |   |   |  |  |  |   |
|       |         | -     | -           | - | - |  |  |  | - |

| A3-39 | 4:5:6:9 | 1.456 | A3,C#3,E3,B4 |   |   |   |   |   |   |
|-------|---------|-------|--------------|---|---|---|---|---|---|
| X     |         |       |              |   |   |   |   |   |   |
| N     |         |       |              |   |   |   | O |   | O |
| N     |         |       |              |   |   | O |   | O |   |
| N     |         |       |              |   |   |   |   | O | O |
| N     |         |       |              |   |   |   |   |   |   |
| X     |         |       |              |   |   |   |   |   |   |
|       |         | -     | -            | - | - |   |   |   | - |

| A3-40 | 4:5:6:9 | 1.456 | A3,C#3,E3,B4 |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| N     |         |       | O            |   | O |  |  |  |   |
| N     |         |       | O            |   |   |  |  |  |   |
| N     |         |       |              | O |   |  |  |  |   |
| N     |         |       |              |   | O |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |          |      |              |   |   |   |  |  |   |
|-------|----------|------|--------------|---|---|---|--|--|---|
| A3-41 | 3:6:8:10 | 1.45 | E1,E2,A3,C#3 |   |   |   |  |  |   |
| X     |          |      |              |   |   |   |  |  |   |
| X     |          |      |              |   |   |   |  |  |   |
| N     |          |      |              |   | O |   |  |  |   |
| N     |          |      |              |   |   | O |  |  |   |
| N     |          |      |              |   |   | O |  |  |   |
| O     |          |      |              |   |   |   |  |  |   |
|       |          | -    |              | - |   | - |  |  | - |

|       |          |       |             |   |  |   |   |  |   |
|-------|----------|-------|-------------|---|--|---|---|--|---|
| A3-42 | 3:6:8:12 | 1.417 | E1,E2,A3,E3 |   |  |   |   |  |   |
| X     |          |       |             |   |  |   |   |  |   |
| X     |          |       |             |   |  |   |   |  |   |
| N     |          |       |             |   |  |   | O |  |   |
| N     |          |       |             |   |  | O |   |  |   |
| N     |          |       |             |   |  | O |   |  |   |
| O     |          |       |             |   |  |   |   |  |   |
|       |          | -     |             | - |  | - |   |  | - |

|       |            |       |                 |   |  |   |  |  |   |
|-------|------------|-------|-----------------|---|--|---|--|--|---|
| A3-43 | 5:6:8:9:12 | 1.372 | C#2,E2,A3,B3,E3 |   |  |   |  |  |   |
| O     |            |       |                 |   |  |   |  |  |   |
| O     |            |       |                 |   |  |   |  |  |   |
| N     | O          |       |                 |   |  |   |  |  |   |
| N     | O          |       |                 |   |  |   |  |  |   |
| N     |            | O     |                 |   |  |   |  |  |   |
| X     |            |       |                 |   |  |   |  |  |   |
|       |            | -     |                 | - |  | - |  |  | - |

|       |             |       |                  |   |  |   |  |  |   |
|-------|-------------|-------|------------------|---|--|---|--|--|---|
| A3-44 | 5:6:8:10:16 | 1.308 | C#2,E2,A3,C#3,A4 |   |  |   |  |  |   |
| N     |             | O     |                  |   |  |   |  |  |   |
| N     | O           |       |                  |   |  |   |  |  |   |
| N     | O           |       |                  |   |  |   |  |  |   |
| N     | O           |       |                  |   |  |   |  |  |   |
| N     |             | O     |                  |   |  |   |  |  |   |
| X     |             |       |                  |   |  |   |  |  |   |
|       |             | -     |                  | - |  | - |  |  | - |

|       |         |       |             |   |  |   |   |  |   |
|-------|---------|-------|-------------|---|--|---|---|--|---|
| A3-45 | 4:6:8:9 | 1.306 | A3,E3,A4,B4 |   |  |   |   |  |   |
| N     |         |       | O           |   |  |   |   |  |   |
| N     |         |       | O           |   |  |   | O |  |   |
| N     |         |       |             |   |  | O |   |  |   |
| N     |         |       | O           |   |  |   |   |  |   |
| X     |         |       |             |   |  |   |   |  |   |
| X     |         |       |             |   |  |   |   |  |   |
|       |         | -     |             | - |  | - |   |  | - |

|       |          |       |             |   |  |   |  |   |  |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|--|---|
| A3-46 | 3:8:9:12 | 1.306 | E1,A3,B3,E3 |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
| N     |          |       |             |   |  |   |  | O |  |  |   |
| N     |          |       |             |   |  |   |  | O |  |  |   |
| N     |          |       |             |   |  |   |  |   |  |  | O |
| O     |          |       |             |   |  |   |  |   |  |  |   |
|       |          | -     |             | - |  | - |  | - |  |  | - |

|       |           |       |              |   |  |   |  |   |   |   |   |
|-------|-----------|-------|--------------|---|--|---|--|---|---|---|---|
| A3-47 | 3:8:10:12 | 1.283 | E1,A3,C#3,E3 |   |  |   |  |   |   |   |   |
| X     |           |       |              |   |  |   |  |   |   |   |   |
| X     |           |       |              |   |  |   |  |   |   |   |   |
| N     |           |       |              |   |  |   |  | O |   |   |   |
| N     |           |       |              |   |  |   |  |   | O |   |   |
| N     |           |       |              |   |  |   |  |   |   | O |   |
| O     |           |       |              |   |  |   |  |   |   |   |   |
|       |           | -     |              | - |  | - |  | - |   |   | - |

|       |             |       |                  |   |   |   |  |   |  |  |   |
|-------|-------------|-------|------------------|---|---|---|--|---|--|--|---|
| A3-48 | 5:8:10:9:12 | 1.239 | C#2,A3,C#3,B3,E3 |   |   |   |  |   |  |  |   |
| O     |             |       |                  |   |   |   |  |   |  |  |   |
| O     |             |       |                  |   |   |   |  |   |  |  |   |
| N     |             |       |                  |   | O |   |  |   |  |  |   |
| N     |             |       |                  |   |   | O |  |   |  |  |   |
| N     |             |       | O                |   |   |   |  |   |  |  |   |
| X     |             |       |                  |   |   |   |  |   |  |  |   |
|       |             | -     |                  | - |   | - |  | - |  |  | - |

|       |       |       |           |   |  |   |  |   |  |  |   |
|-------|-------|-------|-----------|---|--|---|--|---|--|--|---|
| A3-49 | 4:5:6 | 1.233 | A3,C#3,E3 |   |  |   |  |   |  |  |   |
| O     |       |       |           |   |  |   |  |   |  |  |   |
| N     |       | O     |           |   |  |   |  |   |  |  |   |
| N     |       | O     |           |   |  |   |  |   |  |  |   |
| X     |       |       |           |   |  |   |  |   |  |  |   |
| X     |       |       |           |   |  |   |  |   |  |  |   |
| X     |       |       |           |   |  |   |  |   |  |  |   |
|       |       | -     |           | - |  | - |  | - |  |  | - |

|       |             |       |                 |   |   |   |  |   |  |  |   |
|-------|-------------|-------|-----------------|---|---|---|--|---|--|--|---|
| A3-50 | 5:8:9:12:12 | 1.206 | C#2,A3,B3,E3,E3 |   |   |   |  |   |  |  |   |
| O     |             |       |                 |   | O |   |  |   |  |  |   |
| N     |             |       |                 | O |   |   |  |   |  |  |   |
| N     |             |       | O               |   |   | O |  |   |  |  |   |
| N     |             |       | O               |   |   |   |  |   |  |  |   |
| X     |             |       |                 |   |   |   |  |   |  |  |   |
|       |             | -     |                 | - |   | - |  | - |  |  | - |

|       |            |       |                |   |  |   |  |   |  |  |   |
|-------|------------|-------|----------------|---|--|---|--|---|--|--|---|
| A3-51 | 6:8:9:9:12 | 1.194 | E2,A3,B3,B3,E3 |   |  |   |  |   |  |  |   |
| O     |            |       |                |   |  |   |  |   |  |  |   |
| O     |            |       |                |   |  |   |  |   |  |  |   |
| N     |            |       | O              |   |  |   |  |   |  |  |   |
| N     |            |       |                |   |  | O |  |   |  |  |   |
| N     |            |       |                |   |  | O |  |   |  |  |   |
| X     |            |       |                |   |  |   |  |   |  |  |   |
|       |            | -     |                | - |  | - |  | - |  |  | - |

|       |          |       |               |   |  |   |  |   |  |  |   |
|-------|----------|-------|---------------|---|--|---|--|---|--|--|---|
| A3-52 | 5:6:8:10 | 1.183 | C#2,E2,A3,C#3 |   |  |   |  |   |  |  |   |
| X     |          |       |               |   |  |   |  |   |  |  |   |
| N     | O        |       |               |   |  |   |  |   |  |  |   |
| N     | O        |       |               |   |  |   |  |   |  |  |   |
| N     | O        |       |               |   |  |   |  |   |  |  |   |
| N     |          |       | O             |   |  |   |  |   |  |  |   |
| X     |          |       |               |   |  |   |  |   |  |  |   |
|       |          | -     |               | - |  | - |  | - |  |  | - |

|       |             |       |                  |   |   |   |  |   |  |  |   |
|-------|-------------|-------|------------------|---|---|---|--|---|--|--|---|
| A3-53 | 5:8:10:9:18 | 1.183 | C#2,A3,C#3,B3,B4 |   |   |   |  |   |  |  |   |
| N     |             |       |                  |   |   | O |  |   |  |  |   |
| O     |             |       |                  |   |   |   |  |   |  |  |   |
| N     |             |       |                  |   | O |   |  |   |  |  |   |
| N     |             |       |                  |   |   | O |  |   |  |  |   |
| N     |             |       | O                |   |   |   |  |   |  |  |   |
| X     |             |       |                  |   |   |   |  |   |  |  |   |
|       |             | -     |                  | - |   | - |  | - |  |  | - |

|       |              |       |                  |   |   |   |  |   |  |  |   |
|-------|--------------|-------|------------------|---|---|---|--|---|--|--|---|
| A3-54 | 5:8:10:12:12 | 1.183 | C#2,A3,C#3,E3,E3 |   |   |   |  |   |  |  |   |
| O     |              |       |                  |   | O |   |  |   |  |  |   |
| N     |              |       |                  |   |   | O |  |   |  |  |   |
| N     |              |       |                  |   |   |   |  |   |  |  |   |
| N     |              |       |                  |   |   | O |  |   |  |  |   |
| N     |              |       | O                |   |   |   |  |   |  |  |   |
| X     |              |       |                  |   |   |   |  |   |  |  |   |
|       |              | -     |                  | - |   | - |  | - |  |  | - |

|       |             |       |                 |   |   |   |  |   |  |  |   |
|-------|-------------|-------|-----------------|---|---|---|--|---|--|--|---|
| A3-55 | 6:8:10:9:12 | 1.172 | E2,A3,C#3,B3,E3 |   |   |   |  |   |  |  |   |
| O     |             |       |                 |   |   |   |  |   |  |  |   |
| O     |             |       |                 |   |   |   |  |   |  |  |   |
| N     |             |       |                 |   | O |   |  |   |  |  |   |
| N     |             |       |                 |   |   | O |  |   |  |  |   |
| N     |             |       |                 |   |   | O |  |   |  |  |   |
| X     |             |       |                 |   |   |   |  |   |  |  |   |
|       |             | -     |                 | - |   | - |  | - |  |  | - |



|       |          |      |              |   |  |   |   |   |   |  |   |
|-------|----------|------|--------------|---|--|---|---|---|---|--|---|
| A3-56 | 5:6:8:12 | 1.15 | C#2,E2,A3,E3 |   |  |   |   |   |   |  |   |
| X     |          |      |              |   |  |   |   |   |   |  |   |
| X     |          |      |              |   |  |   |   |   |   |  |   |
| N     |          |      |              |   |  |   |   |   | O |  |   |
| N     |          |      |              |   |  |   | O |   |   |  |   |
| N     |          |      |              |   |  |   | O |   |   |  |   |
| N     |          |      |              |   |  |   |   |   | O |  |   |
|       |          | -    |              | - |  | - |   | - |   |  | - |

|       |             |      |                 |   |  |   |  |   |  |  |   |
|-------|-------------|------|-----------------|---|--|---|--|---|--|--|---|
| A3-57 | 5:8:9:12:18 | 1.15 | C#2,A3,B3,E3,B4 |   |  |   |  |   |  |  |   |
| N     |             |      |                 |   |  | O |  |   |  |  |   |
| N     |             |      |                 | O |  |   |  |   |  |  |   |
| N     |             |      |                 |   |  |   |  |   |  |  |   |
| N     |             |      |                 |   |  | O |  |   |  |  |   |
| N     |             |      |                 | O |  |   |  |   |  |  |   |
| X     |             |      |                 |   |  |   |  |   |  |  |   |
|       |             | -    |                 | - |  | - |  | - |  |  | - |

|       |          |      |              |   |  |   |  |   |  |  |   |
|-------|----------|------|--------------|---|--|---|--|---|--|--|---|
| A3-58 | 5:6:8:12 | 1.15 | C#2,E2,A3,E3 |   |  |   |  |   |  |  |   |
| X     |          |      |              |   |  |   |  |   |  |  |   |
| N     |          |      |              | O |  |   |  |   |  |  |   |
| N     | O        |      |              |   |  |   |  |   |  |  |   |
| N     | O        |      |              |   |  |   |  |   |  |  |   |
| N     |          |      |              | O |  |   |  |   |  |  |   |
| X     |          |      |              |   |  |   |  |   |  |  |   |
|       |          | -    |              | - |  | - |  | - |  |  | - |

|       |             |       |                |   |  |   |   |   |   |  |   |
|-------|-------------|-------|----------------|---|--|---|---|---|---|--|---|
| A3-59 | 6:8:12:9:12 | 1.139 | E2,A3,E3,B3,E3 |   |  |   |   |   |   |  |   |
| O     |             |       |                |   |  |   |   |   |   |  |   |
| O     |             |       |                |   |  |   |   |   |   |  |   |
| N     |             |       |                |   |  |   |   |   | O |  |   |
| N     |             |       |                |   |  |   | O |   |   |  |   |
| N     |             |       |                |   |  |   | O |   |   |  |   |
| X     |             |       |                |   |  |   |   |   |   |  |   |
|       |             | -     |                | - |  | - |   | - |   |  | - |

|       |             |       |                 |   |  |   |  |   |  |  |   |
|-------|-------------|-------|-----------------|---|--|---|--|---|--|--|---|
| A3-60 | 6:8:10:9:18 | 1.117 | E2,A3,C#3,B3,B4 |   |  |   |  |   |  |  |   |
| N     |             |       |                 |   |  | O |  |   |  |  |   |
| O     |             |       |                 |   |  |   |  |   |  |  |   |
| N     |             |       |                 |   |  | O |  |   |  |  |   |
| N     |             |       |                 |   |  |   |  |   |  |  |   |
| N     |             |       |                 |   |  | O |  |   |  |  |   |
| X     |             |       |                 |   |  |   |  |   |  |  |   |
|       |             | -     |                 | - |  | - |  | - |  |  | - |

|       |             |       |                |   |  |   |  |   |  |   |
|-------|-------------|-------|----------------|---|--|---|--|---|--|---|
| A3-61 | 6:8:12:9:18 | 1.083 | E2,A3,E3,B3,B4 |   |  |   |  |   |  |   |
| N     |             |       |                |   |  | O |  |   |  |   |
| O     |             |       |                |   |  |   |  |   |  |   |
| N     |             |       |                |   |  |   |  | O |  |   |
| N     |             |       |                |   |  | O |  |   |  |   |
| N     |             |       |                |   |  | O |  |   |  |   |
| X     |             |       |                |   |  |   |  |   |  |   |
|       |             | -     |                | - |  | - |  | - |  | - |

|       |          |       |              |   |  |   |  |   |  |   |
|-------|----------|-------|--------------|---|--|---|--|---|--|---|
| A3-62 | 5:8:9:12 | 1.039 | C#2,A3,B3,E3 |   |  |   |  |   |  |   |
| X     |          |       |              |   |  |   |  |   |  |   |
| X     |          |       |              |   |  |   |  |   |  |   |
| N     |          |       |              |   |  |   |  | O |  |   |
| N     |          |       |              |   |  |   |  | O |  |   |
| N     |          |       |              |   |  |   |  |   |  | O |
| N     |          |       |              |   |  |   |  | O |  |   |
|       |          | -     |              | - |  | - |  | - |  | - |

|       |          |       |              |   |   |   |  |   |  |   |
|-------|----------|-------|--------------|---|---|---|--|---|--|---|
| A3-63 | 5:8:9:12 | 1.039 | C#2,A3,B3,E3 |   |   |   |  |   |  |   |
| X     |          |       |              |   |   |   |  |   |  |   |
| N     |          |       |              | O |   |   |  |   |  |   |
| N     |          |       | O            |   |   |   |  |   |  |   |
| N     |          |       |              |   | O |   |  |   |  |   |
| N     |          |       | O            |   |   |   |  |   |  |   |
| X     |          |       |              |   |   |   |  |   |  |   |
|       |          | -     |              | - |   | - |  | - |  | - |

|       |           |       |               |   |   |   |  |   |  |   |
|-------|-----------|-------|---------------|---|---|---|--|---|--|---|
| A3-64 | 5:8:10:12 | 1.017 | C#2,A3,C#3,E3 |   |   |   |  |   |  |   |
| X     |           |       |               |   |   |   |  |   |  |   |
| N     |           |       |               | O |   |   |  |   |  |   |
| N     |           |       |               |   | O |   |  |   |  |   |
| N     |           |       |               |   |   | O |  |   |  |   |
| N     |           |       | O             |   |   |   |  |   |  |   |
| X     |           |       |               |   |   |   |  |   |  |   |
|       |           | -     |               | - |   | - |  | - |  | - |

|       |           |       |               |   |  |   |  |   |   |   |
|-------|-----------|-------|---------------|---|--|---|--|---|---|---|
| A3-65 | 5:8:10:12 | 1.017 | C#2,A3,C#3,E3 |   |  |   |  |   |   |   |
| X     |           |       |               |   |  |   |  |   |   |   |
| X     |           |       |               |   |  |   |  |   |   |   |
| N     |           |       |               |   |  |   |  | O |   |   |
| N     |           |       |               |   |  |   |  |   | O |   |
| N     |           |       |               |   |  |   |  |   |   | O |
| N     |           |       |               |   |  |   |  | O |   |   |
|       |           | -     |               | - |  | - |  | - |   | - |

|       |          |       |              |   |  |   |   |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|---|---|--|--|---|
| A3-66 | 6:8:10:9 | 1.006 | E2,A3,C#3,B3 |   |  |   |   |   |  |  |   |
| X     |          |       |              |   |  |   |   |   |  |  |   |
| O     |          |       |              |   |  |   |   |   |  |  |   |
| N     |          |       |              |   |  | O |   |   |  |  |   |
| N     |          |       |              |   |  |   | O |   |  |  |   |
| N     |          |       |              |   |  |   | O |   |  |  |   |
| X     |          |       |              |   |  |   |   |   |  |  |   |
|       |          | -     |              | - |  | - |   | - |  |  | - |

|       |              |       |                 |   |  |   |  |   |   |   |   |
|-------|--------------|-------|-----------------|---|--|---|--|---|---|---|---|
| A3-67 | 8:10:12:9:12 | 1.006 | A3,C#3,E3,B3,E3 |   |  |   |  |   |   |   |   |
| O     |              |       |                 |   |  |   |  |   |   |   |   |
| O     |              |       |                 |   |  |   |  |   |   |   |   |
| N     |              |       |                 |   |  |   |  | O |   |   |   |
| N     |              |       |                 |   |  |   |  |   | O |   |   |
| N     |              |       |                 |   |  |   |  |   |   | O |   |
| X     |              |       |                 |   |  |   |  |   |   |   |   |
|       |              | -     |                 | - |  | - |  | - |   |   | - |

|       |          |       |             |   |  |   |  |   |   |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|---|--|---|
| A3-68 | 6:8:12:9 | 0.972 | E2,A3,E3,B3 |   |  |   |  |   |   |  |   |
| X     |          |       |             |   |  |   |  |   |   |  |   |
| O     |          |       |             |   |  |   |  |   |   |  |   |
| N     |          |       |             |   |  |   |  | O |   |  |   |
| N     |          |       |             |   |  |   |  |   | O |  |   |
| N     |          |       |             |   |  |   |  |   |   |  |   |
| X     |          |       |             |   |  |   |  |   |   |  |   |
|       |          | -     |             | - |  | - |  | - |   |  | - |

|       |          |       |             |   |  |   |  |   |  |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|--|---|
| A3-69 | 6:8:9:12 | 0.972 | E2,A3,B3,E3 |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| N     |          | O     |             |   |  |   |  |   |  |  |   |
| N     |          | O     |             |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
|       |          | -     |             | - |  | - |  | - |  |  | - |

|       |          |       |             |   |  |   |  |   |  |  |   |
|-------|----------|-------|-------------|---|--|---|--|---|--|--|---|
| A3-70 | 8:9:9:12 | 0.861 | A3,B3,B3,E3 |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| O     |          |       |             |   |  |   |  |   |  |  |   |
| N     |          |       | O           |   |  |   |  |   |  |  |   |
| N     |          |       |             |   |  | O |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
| X     |          |       |             |   |  |   |  |   |  |  |   |
|       |          | -     |             | - |  | - |  | - |  |  | - |

|       |           |       |              |   |   |   |
|-------|-----------|-------|--------------|---|---|---|
| A3-71 | 8:10:9:12 | 0.839 | A3,C#3,B3,E3 |   |   |   |
| O     |           |       |              |   |   |   |
| O     |           |       |              |   |   |   |
| N     |           |       |              | O |   |   |
| N     |           |       |              |   | O |   |
| X     |           |       |              |   |   |   |
| X     |           |       |              |   |   |   |
|       | -         | -     | -            | - |   | - |

|       |           |       |             |   |   |   |
|-------|-----------|-------|-------------|---|---|---|
| A3-72 | 8:12:9:12 | 0.806 | A3,E3,B3,E3 |   |   |   |
| O     |           |       |             |   |   |   |
| O     |           |       |             |   |   |   |
| N     |           |       |             |   | O |   |
| N     |           |       |             | O |   |   |
| X     |           |       |             |   |   |   |
| X     |           |       |             |   |   |   |
|       | -         | -     | -           | - |   | - |

|       |           |       |             |   |  |   |
|-------|-----------|-------|-------------|---|--|---|
| A3-73 | 8:9:12:12 | 0.806 | A3,B3,E3,E3 |   |  |   |
| O     |           |       |             |   |  |   |
| N     |           |       | O           |   |  |   |
| N     |           | O     |             |   |  |   |
| N     |           |       | O           |   |  |   |
| X     |           |       |             |   |  |   |
| X     |           |       |             |   |  |   |
|       | -         | -     | -           | - |  | - |

|       |           |       |             |   |   |   |
|-------|-----------|-------|-------------|---|---|---|
| A3-74 | 8:12:9:12 | 0.806 | A3,E3,B3,E3 |   |   |   |
| O     |           |       |             |   |   |   |
| O     |           |       |             |   |   |   |
| N     |           |       |             |   | O |   |
| N     |           |       |             | O |   |   |
| X     |           |       |             |   |   |   |
| X     |           |       |             |   |   |   |
|       | -         | -     | -           | - |   | - |

|       |          |       |             |   |  |   |
|-------|----------|-------|-------------|---|--|---|
| A3-75 | 8:9:9:18 | 0.806 | A3,B3,B3,B4 |   |  |   |
| N     |          |       | O           |   |  |   |
| O     |          |       |             |   |  |   |
| N     |          | O     |             |   |  |   |
| N     |          |       | O           |   |  |   |
| X     |          |       |             |   |  |   |
| X     |          |       |             |   |  |   |
|       | -        | -     | -           | - |  | - |

|       |           |       |              |   |  |   |   |   |  |  |  |  |   |
|-------|-----------|-------|--------------|---|--|---|---|---|--|--|--|--|---|
| A3-76 | 8:10:9:18 | 0.783 | A3,C#3,B3,B4 |   |  |   |   |   |  |  |  |  |   |
| N     |           |       |              |   |  |   | O |   |  |  |  |  |   |
| O     |           |       |              |   |  |   |   |   |  |  |  |  |   |
| N     |           |       |              |   |  |   | O |   |  |  |  |  |   |
| N     |           |       |              |   |  |   | O |   |  |  |  |  |   |
| X     |           |       |              |   |  |   |   |   |  |  |  |  |   |
| X     |           |       |              |   |  |   |   |   |  |  |  |  |   |
|       |           | -     |              | - |  | - |   | - |  |  |  |  | - |

|       |           |      |             |   |   |   |   |   |  |  |  |  |   |
|-------|-----------|------|-------------|---|---|---|---|---|--|--|--|--|---|
| A3-77 | 8:9:12:18 | 0.75 | A3,B3,E3,B4 |   |   |   |   |   |  |  |  |  |   |
| N     |           |      |             |   |   |   | O |   |  |  |  |  |   |
| N     |           |      |             |   | O |   |   |   |  |  |  |  |   |
| N     |           |      | O           |   |   |   |   |   |  |  |  |  |   |
| N     |           |      |             |   |   |   | O |   |  |  |  |  |   |
| X     |           |      |             |   |   |   |   |   |  |  |  |  |   |
| X     |           |      |             |   |   |   |   |   |  |  |  |  |   |
|       |           | -    |             | - |   | - |   | - |  |  |  |  | - |

|       |           |      |             |   |  |   |   |   |   |  |  |  |   |
|-------|-----------|------|-------------|---|--|---|---|---|---|--|--|--|---|
| A3-78 | 8:12:9:18 | 0.75 | A3,E3,B3,B4 |   |  |   |   |   |   |  |  |  |   |
| N     |           |      |             |   |  |   | O |   |   |  |  |  |   |
| O     |           |      |             |   |  |   |   |   |   |  |  |  |   |
| N     |           |      |             |   |  |   |   |   | O |  |  |  |   |
| N     |           |      |             |   |  |   | O |   |   |  |  |  |   |
| X     |           |      |             |   |  |   |   |   |   |  |  |  |   |
| X     |           |      |             |   |  |   |   |   |   |  |  |  |   |
|       |           | -    |             | - |  | - |   | - |   |  |  |  | - |

There are no lush chords on A#3.  
 This chord is not lush, it is not strongly rooted and  
 has an overall strength less than 0.75.

| A#3-1 | 7:10:14 | 0.629 | A#3,E3,A#4 |   |   |   |  |   |  |  |   |
|-------|---------|-------|------------|---|---|---|--|---|--|--|---|
| N     |         |       |            |   |   | O |  |   |  |  |   |
| N     |         |       |            |   | O |   |  |   |  |  |   |
| N     |         |       | O          |   |   |   |  |   |  |  |   |
| X     |         |       |            |   |   |   |  |   |  |  |   |
| X     |         |       |            |   |   |   |  |   |  |  |   |
| X     |         |       |            |   |   |   |  |   |  |  |   |
|       |         | -     |            | - |   | - |  | - |  |  | - |

|      |         |       |               |   |  |   |  |   |  |   |   |
|------|---------|-------|---------------|---|--|---|--|---|--|---|---|
| B3-1 | 2:3:2:5 | 3.067 | B3,F#3,B3,D#4 |   |  |   |  |   |  |   |   |
| N    |         |       |               |   |  |   |  |   |  | O |   |
| O    |         |       |               |   |  |   |  |   |  |   |   |
| N    |         |       |               |   |  |   |  |   |  | O |   |
| N    |         |       |               |   |  |   |  | O |  |   |   |
| X    |         |       |               |   |  |   |  |   |  |   |   |
| X    |         |       |               |   |  |   |  |   |  |   |   |
|      |         | -     |               | - |  | - |  | - |  |   | - |

|      |         |       |               |   |  |   |  |   |   |   |   |
|------|---------|-------|---------------|---|--|---|--|---|---|---|---|
| B3-2 | 2:3:4:5 | 2.567 | B3,F#3,B4,D#4 |   |  |   |  |   |   |   |   |
| N    |         |       |               |   |  |   |  |   |   | O |   |
| N    |         |       |               |   |  |   |  |   |   |   | O |
| N    |         |       |               |   |  |   |  |   | O |   |   |
| N    |         |       |               |   |  |   |  | O |   |   |   |
| X    |         |       |               |   |  |   |  |   |   |   |   |
| X    |         |       |               |   |  |   |  |   |   |   |   |
|      |         | -     |               | - |  | - |  | - |   |   | - |

|      |           |       |                  |   |  |   |   |   |  |  |   |
|------|-----------|-------|------------------|---|--|---|---|---|--|--|---|
| B3-3 | 3:4:5:4:8 | 2.317 | F#2,B3,D#3,B3,B4 |   |  |   |   |   |  |  |   |
| N    |           |       |                  |   |  | O |   |   |  |  |   |
| O    |           |       |                  |   |  |   |   |   |  |  |   |
| N    |           |       |                  |   |  |   | O |   |  |  |   |
| N    |           |       |                  |   |  |   |   | O |  |  |   |
| N    |           |       |                  |   |  |   |   | O |  |  |   |
| X    |           |       |                  |   |  |   |   |   |  |  |   |
|      |           | -     |                  | - |  | - |   | - |  |  | - |

|      |            |       |                   |   |  |   |   |   |  |   |   |
|------|------------|-------|-------------------|---|--|---|---|---|--|---|---|
| B3-4 | 3:4:5:4:10 | 2.267 | F#2,B3,D#3,B3,D#4 |   |  |   |   |   |  |   |   |
| N    |            |       |                   |   |  |   |   |   |  | O |   |
| O    |            |       |                   |   |  |   |   |   |  |   |   |
| N    |            |       |                   |   |  |   | O |   |  |   |   |
| N    |            |       |                   |   |  |   |   | O |  |   |   |
| N    |            |       |                   |   |  |   |   | O |  |   |   |
| X    |            |       |                   |   |  |   |   |   |  |   |   |
|      |            | -     |                   | - |  | - |   | - |  |   | - |

|      |            |     |                   |   |  |   |  |   |   |   |   |
|------|------------|-----|-------------------|---|--|---|--|---|---|---|---|
| B3-5 | 3:4:6:4:10 | 2.2 | F#2,B3,F#3,B3,D#4 |   |  |   |  |   |   |   |   |
| N    |            |     |                   |   |  |   |  |   |   | O |   |
| O    |            |     |                   |   |  |   |  |   |   |   |   |
| N    |            |     |                   |   |  |   |  |   | O |   |   |
| N    |            |     |                   |   |  |   |  | O |   |   |   |
| N    |            |     |                   |   |  |   |  | O |   |   |   |
| X    |            |     |                   |   |  |   |  |   |   |   |   |
|      |            | -   |                   | - |  | - |  | - |   |   | - |

| B3-6 | 2:3:4 | 2.167 | B3,F#3,B4 |   |  |   |   |   |
|------|-------|-------|-----------|---|--|---|---|---|
| X    |       |       |           |   |  |   |   |   |
| N    |       |       |           |   |  |   |   | O |
| N    |       |       |           |   |  |   | O |   |
| N    |       |       |           |   |  | O |   |   |
| X    |       |       |           |   |  |   |   |   |
| X    |       |       |           |   |  |   |   |   |
|      |       | -     |           | - |  | - |   | - |

| B3-7 | 2:3:4 | 2.167 | B3,F#3,B4 |   |   |   |  |   |
|------|-------|-------|-----------|---|---|---|--|---|
| N    |       |       |           |   | O |   |  |   |
| N    |       |       |           |   | O |   |  |   |
| N    |       |       | O         |   |   |   |  |   |
| X    |       |       |           |   |   |   |  |   |
| X    |       |       |           |   |   |   |  |   |
| X    |       |       |           |   |   |   |  |   |
|      |       | -     |           | - |   | - |  | - |

| B3-8 | 3:4:5:6:8 | 2.15 | F#2,B3,D#3,F#3,B4 |   |   |   |  |   |
|------|-----------|------|-------------------|---|---|---|--|---|
| N    |           |      |                   |   | O |   |  |   |
| N    |           |      |                   |   | O |   |  |   |
| N    |           |      |                   |   |   | O |  |   |
| N    |           |      |                   |   |   | O |  |   |
| N    |           |      |                   |   |   | O |  |   |
| X    |           |      |                   |   |   |   |  |   |
|      |           | -    |                   | - |   | - |  | - |

| B3-9 | 3:4:6:4:10 | 2.2 | F#2,B3,F#3,B3,D#4 |   |  |   |   |   |
|------|------------|-----|-------------------|---|--|---|---|---|
| N    |            |     |                   |   |  |   | O |   |
| O    |            |     |                   |   |  |   | O |   |
| N    |            |     |                   |   |  |   | O |   |
| N    |            |     |                   |   |  | O |   |   |
| N    |            |     |                   |   |  | O |   |   |
| X    |            |     |                   |   |  |   |   |   |
|      |            | -   |                   | - |  | - |   | - |

| B3-10 | 3:4:5:4 | 2.067 | F#2,B3,D#3,B3 |   |   |   |  |   |
|-------|---------|-------|---------------|---|---|---|--|---|
| X     |         |       |               |   |   |   |  |   |
| O     |         |       |               |   |   |   |  |   |
| N     |         |       |               |   | O |   |  |   |
| N     |         |       |               |   |   | O |  |   |
| N     |         |       |               |   |   | O |  |   |
| X     |         |       |               |   |   |   |  |   |
|       |         | -     |               | - |   | - |  | - |



|       |         |     |               |   |  |   |  |   |   |   |   |
|-------|---------|-----|---------------|---|--|---|--|---|---|---|---|
| B3-11 | 3:4:6:4 | 2.0 | F#2,B3,F#3,B3 |   |  |   |  |   |   |   |   |
| X     |         |     |               |   |  |   |  |   |   |   |   |
| O     |         |     |               |   |  |   |  |   |   |   |   |
| N     |         |     |               |   |  |   |  |   |   | O |   |
| N     |         |     |               |   |  |   |  |   | O |   |   |
| N     |         |     |               |   |  |   |  |   | O |   |   |
| X     |         |     |               |   |  |   |  |   |   |   |   |
|       |         | -   |               | - |  | - |  | - |   |   | - |

|       |         |     |               |   |  |   |  |   |  |  |   |
|-------|---------|-----|---------------|---|--|---|--|---|--|--|---|
| B3-12 | 3:4:4:6 | 2.0 | F#2,B3,B3,F#3 |   |  |   |  |   |  |  |   |
| N     | O       |     |               |   |  |   |  |   |  |  |   |
| O     |         |     |               |   |  |   |  |   |  |  |   |
| N     |         |     | O             |   |  |   |  |   |  |  |   |
| N     |         |     | O             |   |  |   |  |   |  |  |   |
| X     |         |     |               |   |  |   |  |   |  |  |   |
| X     |         |     |               |   |  |   |  |   |  |  |   |
|       |         | -   |               | - |  | - |  | - |  |  | - |

|       |            |      |                   |   |  |   |  |   |  |   |   |
|-------|------------|------|-------------------|---|--|---|--|---|--|---|---|
| B3-13 | 3:4:6:8:10 | 1.95 | F#2,B3,F#3,B4,D#4 |   |  |   |  |   |  |   |   |
| N     |            |      |                   |   |  |   |  |   |  | O |   |
| N     |            |      |                   |   |  |   |  |   |  | O | O |
| N     |            |      |                   |   |  |   |  |   |  | O |   |
| N     |            |      |                   |   |  |   |  | O |  |   |   |
| N     |            |      |                   |   |  |   |  | O |  |   |   |
| X     |            |      |                   |   |  |   |  |   |  |   |   |
|       |            | -    |                   | - |  | - |  | - |  |   | - |

|       |         |     |                |   |  |   |  |   |  |  |   |
|-------|---------|-----|----------------|---|--|---|--|---|--|--|---|
| B3-14 | 3:4:5:6 | 1.9 | F#2,B3,D#3,F#3 |   |  |   |  |   |  |  |   |
| N     | O       |     |                |   |  |   |  |   |  |  |   |
| N     |         |     | O              |   |  |   |  |   |  |  |   |
| N     |         |     | O              |   |  |   |  |   |  |  |   |
| N     |         |     | O              |   |  |   |  |   |  |  |   |
| X     |         |     |                |   |  |   |  |   |  |  |   |
| X     |         |     |                |   |  |   |  |   |  |  |   |
|       |         | -   |                | - |  | - |  | - |  |  | - |

|       |         |     |                |   |  |   |   |   |  |  |   |
|-------|---------|-----|----------------|---|--|---|---|---|--|--|---|
| B3-15 | 3:4:5:6 | 1.9 | F#2,B3,D#3,F#3 |   |  |   |   |   |  |  |   |
| X     |         |     |                |   |  |   |   |   |  |  |   |
| N     |         |     |                |   |  | O |   |   |  |  |   |
| N     |         |     |                |   |  |   | O |   |  |  |   |
| N     |         |     |                |   |  |   |   | O |  |  |   |
| N     |         |     |                |   |  |   |   | O |  |  |   |
| X     |         |     |                |   |  |   |   |   |  |  |   |
|       |         | -   |                | - |  | - |   | - |  |  | - |

|       |         |       |               |   |  |   |  |   |  |  |   |
|-------|---------|-------|---------------|---|--|---|--|---|--|--|---|
| B3-16 | 3:4:5:8 | 1.817 | F#2,B3,D#3,B4 |   |  |   |  |   |  |  |   |
| N     |         |       |               |   |  | O |  |   |  |  |   |
| N     |         |       | O             |   |  |   |  |   |  |  |   |
| N     |         |       | O             |   |  |   |  |   |  |  |   |
| N     |         |       | O             |   |  |   |  |   |  |  |   |
| X     |         |       |               |   |  |   |  |   |  |  |   |
| X     |         |       |               |   |  |   |  |   |  |  |   |
|       |         | -     |               | - |  | - |  | - |  |  | - |

|       |         |      |               |   |  |   |  |   |   |   |   |
|-------|---------|------|---------------|---|--|---|--|---|---|---|---|
| B3-17 | 3:4:6:8 | 1.75 | F#2,B3,F#3,B4 |   |  |   |  |   |   |   |   |
| X     |         |      |               |   |  |   |  |   |   |   |   |
| N     |         |      |               |   |  |   |  |   |   | O |   |
| N     |         |      |               |   |  |   |  |   | O |   |   |
| N     |         |      |               |   |  |   |  | O |   |   |   |
| N     |         |      |               |   |  |   |  | O |   |   |   |
| X     |         |      |               |   |  |   |  |   |   |   |   |
|       |         | -    |               | - |  | - |  | - |   |   | - |

|       |         |      |               |   |  |   |  |   |  |  |   |
|-------|---------|------|---------------|---|--|---|--|---|--|--|---|
| B3-18 | 3:4:6:8 | 1.75 | F#2,B3,F#3,B4 |   |  |   |  |   |  |  |   |
| N     |         |      |               |   |  | O |  |   |  |  |   |
| N     |         |      |               |   |  | O |  |   |  |  |   |
| N     |         |      | O             |   |  |   |  |   |  |  |   |
| N     |         |      | O             |   |  |   |  |   |  |  |   |
| X     |         |      |               |   |  |   |  |   |  |  |   |
| X     |         |      |               |   |  |   |  |   |  |  |   |
|       |         | -    |               | - |  | - |  | - |  |  | - |

|       |         |      |              |   |  |   |   |   |  |  |   |
|-------|---------|------|--------------|---|--|---|---|---|--|--|---|
| B3-19 | 4:5:4:8 | 1.65 | B3,D#3,B3,B4 |   |  |   |   |   |  |  |   |
| N     |         |      |              |   |  | O |   |   |  |  |   |
| O     |         |      |              |   |  |   |   |   |  |  |   |
| N     |         |      |              |   |  |   | O |   |  |  |   |
| N     |         |      |              |   |  |   |   | O |  |  |   |
| X     |         |      |              |   |  |   |   |   |  |  |   |
| X     |         |      |              |   |  |   |   |   |  |  |   |
|       |         | -    |              | - |  | - |   | - |  |  | - |

|       |          |     |               |   |  |   |   |   |  |   |   |
|-------|----------|-----|---------------|---|--|---|---|---|--|---|---|
| B3-20 | 4:5:4:10 | 1.6 | B3,D#3,B3,D#4 |   |  |   |   |   |  |   |   |
| N     |          |     |               |   |  |   |   |   |  | O |   |
| O     |          |     |               |   |  |   |   |   |  |   |   |
| N     |          |     |               |   |  |   | O |   |  |   |   |
| N     |          |     |               |   |  |   |   | O |  |   |   |
| X     |          |     |               |   |  |   |   |   |  |   |   |
| X     |          |     |               |   |  |   |   |   |  |   |   |
|       |          | -   |               | - |  | - |   | - |  |   | - |

|       |         |       |               |   |  |   |   |   |  |  |   |
|-------|---------|-------|---------------|---|--|---|---|---|--|--|---|
| B3-21 | 4:5:6:8 | 1.483 | B3,D#3,F#3,B4 |   |  |   |   |   |  |  |   |
| N     |         |       |               |   |  | O |   |   |  |  |   |
| N     |         |       |               |   |  | O |   |   |  |  |   |
| N     |         |       |               |   |  |   | O |   |  |  |   |
| N     |         |       |               |   |  |   |   | O |  |  |   |
| X     |         |       |               |   |  |   |   |   |  |  |   |
| X     |         |       |               |   |  |   |   |   |  |  |   |
|       |         | -     |               | - |  | - |   | - |  |  | - |

|       |             |       |                   |   |   |   |  |   |  |  |   |
|-------|-------------|-------|-------------------|---|---|---|--|---|--|--|---|
| B3-22 | 5:6:8:10:16 | 1.308 | D#2,F#2,B3,D#3,B4 |   |   |   |  |   |  |  |   |
| N     |             |       |                   |   |   | O |  |   |  |  |   |
| N     |             |       | O                 |   |   | O |  |   |  |  |   |
| N     |             |       | O                 |   |   |   |  |   |  |  |   |
| N     |             |       | O                 |   |   |   |  |   |  |  |   |
| N     |             |       |                   |   | O |   |  |   |  |  |   |
| X     |             |       |                   |   |   |   |  |   |  |  |   |
|       |             | -     |                   | - |   | - |  | - |  |  | - |

|       |       |       |            |   |  |   |   |   |  |  |   |
|-------|-------|-------|------------|---|--|---|---|---|--|--|---|
| B3-23 | 4:5:6 | 1.233 | B3,D#3,F#3 |   |  |   |   |   |  |  |   |
| X     |       |       |            |   |  | O |   |   |  |  |   |
| N     |       |       |            |   |  | O |   |   |  |  |   |
| N     |       |       |            |   |  |   | O |   |  |  |   |
| N     |       |       |            |   |  |   |   | O |  |  |   |
| X     |       |       |            |   |  |   |   |   |  |  |   |
| X     |       |       |            |   |  |   |   |   |  |  |   |
|       |       | -     |            | - |  | - |   | - |  |  | - |

|       |       |       |            |   |  |   |  |   |  |  |   |
|-------|-------|-------|------------|---|--|---|--|---|--|--|---|
| B3-24 | 4:5:6 | 1.233 | B3,D#3,F#3 |   |  |   |  |   |  |  |   |
| N     | O     |       |            |   |  |   |  |   |  |  |   |
| N     |       |       | O          |   |  |   |  |   |  |  |   |
| N     |       |       | O          |   |  |   |  |   |  |  |   |
| X     |       |       |            |   |  |   |  |   |  |  |   |
| X     |       |       |            |   |  |   |  |   |  |  |   |
| X     |       |       |            |   |  |   |  |   |  |  |   |
|       |       | -     |            | - |  | - |  | - |  |  | - |

|       |         |       |               |   |   |   |  |   |  |  |   |
|-------|---------|-------|---------------|---|---|---|--|---|--|--|---|
| B3-25 | 5:6:8:8 | 1.233 | D#2,F#2,B3,B3 |   |   |   |  |   |  |  |   |
| X     |         |       |               |   |   |   |  |   |  |  |   |
| O     |         |       |               |   |   |   |  |   |  |  |   |
| N     |         |       | O             |   |   |   |  |   |  |  |   |
| N     |         |       | O             |   |   |   |  |   |  |  |   |
| N     |         |       |               |   | O |   |  |   |  |  |   |
| X     |         |       |               |   |   |   |  |   |  |  |   |
|       |         | -     |               | - |   | - |  | - |  |  | - |

|       |          |       |                |   |  |   |
|-------|----------|-------|----------------|---|--|---|
| B3-26 | 5:6:8:10 | 1.183 | D#2,F#2,B3,D#3 |   |  |   |
| X     |          |       |                |   |  |   |
| N     |          | O     |                |   |  |   |
| N     |          | O     |                |   |  |   |
| N     |          | O     |                |   |  |   |
| N     |          |       | O              |   |  |   |
| X     |          |       |                |   |  |   |
|       | -        | -     | -              | - |  | - |

|       |          |      |                |   |  |   |
|-------|----------|------|----------------|---|--|---|
| B3-27 | 5:6:8:12 | 1.15 | D#2,F#2,B3,F#3 |   |  |   |
| X     |          |      |                |   |  |   |
| N     |          |      | O              |   |  |   |
| N     |          | O    |                |   |  |   |
| N     |          | O    |                |   |  |   |
| N     |          |      | O              |   |  |   |
| X     |          |      |                |   |  |   |
|       | -        | -    | -              | - |  | - |

|       |          |      |                |   |   |   |
|-------|----------|------|----------------|---|---|---|
| B3-28 | 5:6:8:12 | 1.15 | D#2,F#2,B3,F#3 |   |   |   |
| X     |          |      |                |   |   |   |
| X     |          |      |                |   |   |   |
| N     |          |      |                |   | O |   |
| N     |          |      |                | O |   |   |
| N     |          |      |                | O |   |   |
| N     |          |      |                |   | O |   |
|       | -        | -    | -              | - |   | - |

|       |       |      |           |   |  |   |
|-------|-------|------|-----------|---|--|---|
| B3-29 | 4:5:8 | 1.15 | B3,D#3,B4 |   |  |   |
| N     |       |      | O         |   |  |   |
| N     |       | O    |           |   |  |   |
| N     |       | O    |           |   |  |   |
| X     |       |      |           |   |  |   |
| X     |       |      |           |   |  |   |
| X     |       |      |           |   |  |   |
|       | -     | -    | -         | - |  | - |

|       |          |     |               |   |   |   |
|-------|----------|-----|---------------|---|---|---|
| B3-30 | 5:8:10:8 | 1.1 | D#2,B3,D#3,B3 |   |   |   |
| X     |          |     |               |   |   |   |
| O     |          |     |               | O |   |   |
| N     |          |     |               |   | O |   |
| N     |          |     | O             |   |   |   |
| N     |          |     |               |   |   |   |
| X     |          |     |               |   |   |   |
|       | -        | -   | -             | - |   | - |

|       |          |       |               |   |   |  |   |  |   |  |  |   |
|-------|----------|-------|---------------|---|---|--|---|--|---|--|--|---|
| B3-31 | 5:8:8:12 | 1.067 | D#2,B3,B3,F#3 |   |   |  |   |  |   |  |  |   |
| N     |          | O     |               |   |   |  |   |  |   |  |  |   |
| O     |          |       |               |   |   |  |   |  |   |  |  |   |
| N     |          |       |               | O |   |  |   |  |   |  |  |   |
| N     | O        |       |               |   |   |  |   |  |   |  |  |   |
| X     |          |       |               |   |   |  |   |  |   |  |  |   |
| X     |          |       |               |   |   |  |   |  |   |  |  |   |
|       |          |       | -             |   | - |  | - |  | - |  |  | - |

|       |           |       |                |  |   |   |   |   |   |  |  |   |
|-------|-----------|-------|----------------|--|---|---|---|---|---|--|--|---|
| B3-32 | 5:8:10:12 | 1.017 | D#2,B3,D#3,F#3 |  |   |   |   |   |   |  |  |   |
| X     |           |       |                |  |   |   | O |   |   |  |  |   |
| N     |           |       |                |  |   |   | O | O |   |  |  |   |
| N     |           |       |                |  |   |   |   | O | O |  |  |   |
| N     |           |       |                |  |   | O |   |   |   |  |  |   |
| N     |           |       |                |  |   |   |   |   |   |  |  |   |
| X     |           |       |                |  |   |   |   |   |   |  |  |   |
|       |           |       | -              |  | - |   | - |   | - |  |  | - |

|       |       |       |            |   |   |   |   |  |   |  |  |   |
|-------|-------|-------|------------|---|---|---|---|--|---|--|--|---|
| B3-33 | 5:6:8 | 0.983 | D#2,F#2,B3 |   |   |   |   |  |   |  |  |   |
| X     |       |       |            |   |   |   |   |  |   |  |  |   |
| X     |       |       |            | O |   |   |   |  |   |  |  |   |
| N     |       |       |            | O |   |   |   |  |   |  |  |   |
| N     |       |       |            |   |   | O |   |  |   |  |  |   |
| N     |       |       |            |   |   |   |   |  |   |  |  |   |
| X     |       |       |            |   |   |   |   |  |   |  |  |   |
|       |       |       | -          |   | - |   | - |  | - |  |  | - |

|      |           |       |                |   |   |   |
|------|-----------|-------|----------------|---|---|---|
| C3-1 | 3:4:3:6:5 | 2.567 | G2,C3,G2,G3,E3 |   |   |   |
| O    |           |       |                |   |   |   |
| N    |           |       |                |   | O |   |
| O    |           |       |                |   |   |   |
| N    |           |       |                |   |   | O |
| N    |           |       |                |   |   | O |
| X    |           |       |                |   |   |   |
|      |           | -     | -              | - | - | - |

|      |           |       |                 |   |   |   |
|------|-----------|-------|-----------------|---|---|---|
| C3-2 | 3:4:3:7:5 | 2.519 | G2,C3,G2,A#4,E3 |   |   |   |
| O    |           |       |                 |   |   |   |
| N    |           |       |                 |   |   | O |
| O    |           |       |                 |   |   |   |
| N    |           |       |                 |   | O |   |
| N    |           |       |                 |   | O |   |
| X    |           |       |                 |   |   |   |
|      |           | -     | -               | - | - | - |

|      |           |       |                |   |   |   |
|------|-----------|-------|----------------|---|---|---|
| C3-3 | 3:4:3:6:8 | 2.417 | G2,C3,G2,G3,C4 |   |   |   |
| N    |           |       |                |   | O |   |
| N    |           |       |                |   | O |   |
| O    |           |       |                |   |   |   |
| N    |           |       |                |   |   | O |
| N    |           |       |                |   | O |   |
| X    |           |       |                |   |   |   |
|      |           | -     | -              | - | - | - |

|      |           |       |                |   |   |   |
|------|-----------|-------|----------------|---|---|---|
| C3-4 | 3:4:3:6:9 | 2.389 | G2,C3,G2,G3,D4 |   |   |   |
| N    |           |       |                |   | O |   |
| N    |           |       |                |   | O |   |
| O    |           |       |                |   |   |   |
| N    |           |       |                |   | O |   |
| N    |           |       |                |   | O |   |
| X    |           |       |                |   |   |   |
|      |           | -     | -              | - | - | - |

|      |           |       |                 |   |   |   |
|------|-----------|-------|-----------------|---|---|---|
| C3-5 | 3:4:3:7:8 | 2.369 | G2,C3,G2,A#4,C4 |   |   |   |
| N    |           |       |                 |   | O |   |
| N    |           |       |                 |   |   | O |
| O    |           |       |                 |   |   |   |
| N    |           |       |                 |   | O |   |
| N    |           |       |                 |   | O |   |
| X    |           |       |                 |   |   |   |
|      |           | -     | -               | - | - | - |

|      |            |       |                 |   |  |   |  |   |   |   |   |
|------|------------|-------|-----------------|---|--|---|--|---|---|---|---|
| C3-6 | 3:4:3:7:10 | 2.319 | G2,C3,G2,A#4,E4 |   |  |   |  |   |   |   |   |
| N    |            |       |                 |   |  |   |  |   |   |   | O |
| N    |            |       |                 |   |  |   |  |   |   | O |   |
| O    |            |       |                 |   |  |   |  |   |   |   |   |
| N    |            |       |                 |   |  |   |  |   | O |   |   |
| N    |            |       |                 |   |  |   |  |   | O |   |   |
| X    |            |       |                 |   |  |   |  |   |   |   |   |
|      |            | -     |                 | - |  | - |  | - |   |   | - |

|      |           |     |                |   |  |   |   |   |   |  |   |
|------|-----------|-----|----------------|---|--|---|---|---|---|--|---|
| C3-7 | 3:4:5:6:5 | 2.3 | G2,C3,E3,G3,E3 |   |  |   |   |   |   |  |   |
| O    |           |     |                |   |  |   |   |   |   |  |   |
| N    |           |     |                |   |  |   | O |   |   |  |   |
| N    |           |     |                |   |  |   |   | O |   |  |   |
| N    |           |     |                |   |  |   |   |   | O |  |   |
| N    |           |     |                |   |  |   |   |   | O |  |   |
| X    |           |     |                |   |  |   |   |   |   |  |   |
|      |           | -   |                | - |  | - |   | - |   |  | - |

|      |           |       |                 |   |  |   |  |   |   |   |   |
|------|-----------|-------|-----------------|---|--|---|--|---|---|---|---|
| C3-8 | 3:4:5:7:5 | 2.252 | G2,C3,E3,A#4,E3 |   |  |   |  |   |   |   |   |
| O    |           |       |                 |   |  |   |  |   |   |   |   |
| N    |           |       |                 |   |  |   |  |   |   | O |   |
| N    |           |       |                 |   |  |   |  | O |   |   |   |
| N    |           |       |                 |   |  |   |  |   | O |   |   |
| N    |           |       |                 |   |  |   |  |   | O |   |   |
| X    |           |       |                 |   |  |   |  |   |   |   |   |
|      |           | -     |                 | - |  | - |  | - |   |   | - |

|      |           |       |                 |   |  |   |  |   |   |   |   |
|------|-----------|-------|-----------------|---|--|---|--|---|---|---|---|
| C3-9 | 3:4:6:7:5 | 2.186 | G2,C3,G3,A#4,E3 |   |  |   |  |   |   |   |   |
| O    |           |       |                 |   |  |   |  |   |   |   |   |
| N    |           |       |                 |   |  |   |  |   |   | O |   |
| N    |           |       |                 |   |  |   |  |   |   |   | O |
| N    |           |       |                 |   |  |   |  |   | O |   |   |
| N    |           |       |                 |   |  |   |  |   | O |   |   |
| X    |           |       |                 |   |  |   |  |   |   |   |   |
|      |           | -     |                 | - |  | - |  | - |   |   | - |

|       |       |       |          |   |  |   |   |   |  |  |   |
|-------|-------|-------|----------|---|--|---|---|---|--|--|---|
| C3-10 | 2:3:4 | 2.167 | C3,G3,C4 |   |  |   |   |   |  |  |   |
| N     |       |       |          |   |  |   | O |   |  |  |   |
| N     |       |       |          |   |  |   | O |   |  |  |   |
| N     |       |       |          | O |  |   |   |   |  |  |   |
| X     |       |       |          |   |  |   |   |   |  |  |   |
| X     |       |       |          |   |  |   |   |   |  |  |   |
| X     |       |       |          |   |  |   |   |   |  |  |   |
|       |       | -     |          | - |  | - |   | - |  |  | - |

|       |         |       |             |   |   |   |   |
|-------|---------|-------|-------------|---|---|---|---|
| C3-11 | 3:4:3:6 | 2.167 | G2,C3,G2,G3 |   |   |   |   |
| X     |         |       |             |   |   |   |   |
| N     |         |       |             |   | o |   |   |
| O     |         |       |             |   |   |   |   |
| N     |         |       |             |   |   | o |   |
| N     |         |       |             |   |   | o |   |
| X     |         |       |             |   |   |   |   |
|       |         | -     | -           | - | - |   | - |

|       |           |      |                |   |   |   |   |
|-------|-----------|------|----------------|---|---|---|---|
| C3-12 | 3:4:5:6:8 | 2.15 | G2,C3,E3,G3,C4 |   |   |   |   |
| N     |           |      |                |   | o |   |   |
| N     |           |      |                |   | o |   |   |
| N     |           |      |                |   |   | o |   |
| N     |           |      |                |   |   | o |   |
| N     |           |      |                |   |   | o |   |
| X     |           |      |                |   |   |   |   |
|       |           | -    | -              | - | - |   | - |

|       |         |       |              |   |   |   |   |
|-------|---------|-------|--------------|---|---|---|---|
| C3-13 | 3:4:3:7 | 2.119 | G2,C3,G2,A#4 |   |   |   |   |
| X     |         |       |              |   |   |   |   |
| N     |         |       |              |   |   |   | o |
| O     |         |       |              |   |   |   |   |
| N     |         |       |              |   |   | o |   |
| N     |         |       |              |   |   | o |   |
| X     |         |       |              |   |   |   |   |
|       |         | -     | -            | - | - |   | - |

|       |           |       |                 |   |   |   |   |
|-------|-----------|-------|-----------------|---|---|---|---|
| C3-14 | 3:4:5:7:8 | 2.102 | G2,C3,E3,A#4,C4 |   |   |   |   |
| N     |           |       |                 |   | o |   |   |
| N     |           |       |                 |   |   |   | o |
| N     |           |       |                 |   |   | o |   |
| N     |           |       |                 |   |   | o |   |
| N     |           |       |                 |   |   | o |   |
| X     |           |       |                 |   |   |   |   |
|       |           | -     | -               | - | - |   | - |

|       |           |       |                 |   |   |   |   |
|-------|-----------|-------|-----------------|---|---|---|---|
| C3-15 | 3:4:6:7:9 | 2.008 | G2,C3,G3,A#4,D4 |   |   |   |   |
| N     |           |       |                 |   |   | o |   |
| N     |           |       |                 |   |   |   | o |
| N     |           |       |                 |   |   |   | o |
| N     |           |       |                 |   |   | o |   |
| N     |           |       |                 |   |   | o |   |
| X     |           |       |                 |   |   |   |   |
|       |           | -     | -               | - | - |   | - |



|       |            |       |                 |   |  |   |  |   |   |   |
|-------|------------|-------|-----------------|---|--|---|--|---|---|---|
| C3-16 | 3:4:6:7:10 | 1.986 | G2,C3,G3,A#4,E4 |   |  |   |  |   |   |   |
| N     |            |       |                 |   |  |   |  |   |   | O |
| N     |            |       |                 |   |  |   |  |   | O |   |
| N     |            |       |                 |   |  |   |  |   |   | O |
| N     |            |       |                 |   |  |   |  | O |   |   |
| N     |            |       |                 |   |  |   |  | O |   |   |
| X     |            |       |                 |   |  |   |  |   |   |   |
|       |            | -     |                 | - |  | - |  | - |   | - |

|       |         |       |             |   |  |   |  |   |  |   |
|-------|---------|-------|-------------|---|--|---|--|---|--|---|
| C3-17 | 3:4:5:5 | 1.967 | G2,C3,E3,E3 |   |  |   |  |   |  |   |
| O     |         |       |             |   |  |   |  |   |  |   |
| N     |         |       |             | O |  |   |  |   |  |   |
| N     |         |       |             | O |  |   |  |   |  |   |
| N     |         |       |             | O |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
| X     |         |       |             |   |  |   |  |   |  |   |
|       |         | -     |             | - |  | - |  | - |  | - |

|       |         |     |             |   |  |   |   |   |  |   |
|-------|---------|-----|-------------|---|--|---|---|---|--|---|
| C3-18 | 3:4:5:6 | 1.9 | G2,C3,E3,G3 |   |  |   |   |   |  |   |
| X     |         |     |             |   |  |   |   |   |  |   |
| N     |         |     |             |   |  | O |   |   |  |   |
| N     |         |     |             |   |  |   | O |   |  |   |
| N     |         |     |             |   |  |   |   | O |  |   |
| N     |         |     |             |   |  |   |   | O |  |   |
| X     |         |     |             |   |  |   |   |   |  |   |
|       |         | -   |             | - |  | - |   | - |  | - |

|       |         |     |             |   |  |   |  |   |  |   |
|-------|---------|-----|-------------|---|--|---|--|---|--|---|
| C3-19 | 3:4:5:6 | 1.9 | G2,C3,E3,G3 |   |  |   |  |   |  |   |
| N     |         | O   |             |   |  |   |  |   |  |   |
| N     |         |     | O           |   |  |   |  |   |  |   |
| N     |         |     | O           |   |  |   |  |   |  |   |
| N     |         |     | O           |   |  |   |  |   |  |   |
| X     |         |     |             |   |  |   |  |   |  |   |
| X     |         |     |             |   |  |   |  |   |  |   |
|       |         | -   |             | - |  | - |  | - |  | - |

|       |         |     |             |   |  |   |  |   |  |   |
|-------|---------|-----|-------------|---|--|---|--|---|--|---|
| C3-20 | 4:3:6:5 | 1.9 | C3,G2,G3,E3 |   |  |   |  |   |  |   |
| O     |         |     |             |   |  |   |  |   |  |   |
| N     |         |     |             |   |  | O |  |   |  |   |
| O     |         |     |             |   |  |   |  |   |  |   |
| N     |         |     |             |   |  |   |  | O |  |   |
| X     |         |     |             |   |  |   |  |   |  |   |
| X     |         |     |             |   |  |   |  |   |  |   |
|       |         | -   |             | - |  | - |  | - |  | - |

|       |         |       |              |   |  |  |   |
|-------|---------|-------|--------------|---|--|--|---|
| C3-21 | 3:4:5:7 | 1.852 | G2,C3,E3,A#4 |   |  |  |   |
| N     |         |       | O            |   |  |  |   |
| N     |         | O     |              |   |  |  |   |
| N     |         | O     |              |   |  |  |   |
| N     |         | O     |              |   |  |  |   |
| X     |         |       |              |   |  |  |   |
| X     |         |       |              |   |  |  |   |
|       | -       | -     | -            | - |  |  | - |

|       |         |       |              |   |   |   |   |
|-------|---------|-------|--------------|---|---|---|---|
| C3-22 | 3:4:5:7 | 1.852 | G2,C3,E3,A#4 |   |   |   |   |
| X     |         |       |              |   |   |   |   |
| N     |         |       |              |   |   | O |   |
| N     |         |       |              |   | O |   |   |
| N     |         |       |              |   | O |   |   |
| N     |         |       |              |   | O |   |   |
| X     |         |       |              |   |   |   |   |
|       | -       | -     | -            | - |   |   | - |

|       |         |       |              |   |   |   |   |
|-------|---------|-------|--------------|---|---|---|---|
| C3-23 | 4:3:7:5 | 1.852 | C3,G2,A#4,E3 |   |   |   |   |
| O     |         |       |              |   |   |   |   |
| N     |         |       |              |   |   | O |   |
| O     |         |       |              |   |   |   |   |
| N     |         |       |              |   | O |   |   |
| X     |         |       |              |   |   |   |   |
| X     |         |       |              |   |   |   |   |
|       | -       | -     | -            | - |   |   | - |

|       |         |       |             |   |  |  |   |
|-------|---------|-------|-------------|---|--|--|---|
| C3-24 | 3:4:5:8 | 1.817 | G2,C3,E3,C4 |   |  |  |   |
| N     |         |       | O           |   |  |  |   |
| N     |         | O     |             |   |  |  |   |
| N     |         | O     |             |   |  |  |   |
| N     |         | O     |             |   |  |  |   |
| X     |         |       |             |   |  |  |   |
| X     |         |       |             |   |  |  |   |
|       | -       | -     | -           | - |  |  | - |

|       |         |       |              |   |   |   |   |
|-------|---------|-------|--------------|---|---|---|---|
| C3-25 | 3:4:6:7 | 1.786 | G2,C3,G3,A#4 |   |   |   |   |
| X     |         |       |              |   |   |   |   |
| N     |         |       |              |   |   | O |   |
| N     |         |       |              |   |   |   | O |
| N     |         |       |              |   | O |   |   |
| N     |         |       |              |   | O |   |   |
| X     |         |       |              |   |   |   |   |
|       | -       | -     | -            | - |   |   | - |

|       |         |       |              |   |   |   |   |  |   |
|-------|---------|-------|--------------|---|---|---|---|--|---|
| C3-26 | 3:4:6:7 | 1.786 | G2,C3,G3,A#4 |   |   |   |   |  |   |
| N     |         |       |              |   | O |   |   |  |   |
| N     |         |       |              |   |   |   | O |  |   |
| N     |         |       |              |   | O |   |   |  |   |
| N     |         |       |              |   | O |   |   |  |   |
| X     |         |       |              |   |   |   |   |  |   |
| X     |         |       |              |   |   |   |   |  |   |
|       |         | -     |              | - |   | - |   |  | - |

|       |         |      |             |   |   |   |   |  |   |
|-------|---------|------|-------------|---|---|---|---|--|---|
| C3-27 | 3:4:6:8 | 1.75 | G2,C3,G3,C4 |   |   |   |   |  |   |
| N     |         |      |             |   |   |   | O |  |   |
| N     |         |      |             |   |   |   | O |  |   |
| N     |         |      |             |   | O |   |   |  |   |
| N     |         |      |             |   | O |   |   |  |   |
| X     |         |      |             |   |   |   |   |  |   |
| X     |         |      |             |   |   |   |   |  |   |
|       |         | -    |             | - |   | - |   |  | - |

|       |         |      |             |   |  |   |   |   |   |
|-------|---------|------|-------------|---|--|---|---|---|---|
| C3-28 | 4:3:6:8 | 1.75 | C3,G2,G3,C4 |   |  |   |   |   |   |
| N     |         |      |             |   |  |   | O |   |   |
| N     |         |      |             |   |  |   | O |   |   |
| O     |         |      |             |   |  |   |   |   |   |
| N     |         |      |             |   |  |   |   | O |   |
| X     |         |      |             |   |  |   |   |   |   |
| X     |         |      |             |   |  |   |   |   |   |
|       |         | -    |             | - |  | - |   |   | - |

|       |         |       |             |   |  |   |   |   |   |
|-------|---------|-------|-------------|---|--|---|---|---|---|
| C3-29 | 4:3:6:9 | 1.722 | C3,G2,G3,D4 |   |  |   |   |   |   |
| N     |         |       |             |   |  |   |   | O |   |
| N     |         |       |             |   |  |   | O |   |   |
| O     |         |       |             |   |  |   |   |   |   |
| N     |         |       |             |   |  |   |   | O |   |
| X     |         |       |             |   |  |   |   |   |   |
| X     |         |       |             |   |  |   |   |   |   |
|       |         | -     |             | - |  | - |   |   | - |

|       |         |       |              |   |  |   |   |   |   |
|-------|---------|-------|--------------|---|--|---|---|---|---|
| C3-30 | 4:3:7:8 | 1.702 | C3,G2,A#4,C4 |   |  |   |   |   |   |
| N     |         |       |              |   |  |   | O |   |   |
| N     |         |       |              |   |  |   |   |   | O |
| O     |         |       |              |   |  |   |   |   |   |
| N     |         |       |              |   |  |   |   | O |   |
| X     |         |       |              |   |  |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |
|       |         | -     |              | - |  | - |   |   | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| C3-31 | 4:3:7:9 | 1.674 | C3,G2,A#4,D4 |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| O     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |          |       |              |   |   |  |  |  |   |
|-------|----------|-------|--------------|---|---|--|--|--|---|
| C3-32 | 4:3:7:10 | 1.652 | C3,G2,A#4,E4 |   |   |  |  |  |   |
| N     |          |       |              |   |   |  |  |  |   |
| N     |          |       |              |   |   |  |  |  |   |
| O     |          |       |              |   |   |  |  |  |   |
| N     |          |       |              |   |   |  |  |  |   |
| X     |          |       |              |   |   |  |  |  |   |
| X     |          |       |              |   |   |  |  |  |   |
|       |          | -     | -            | - | - |  |  |  | - |

|       |         |       |             |   |   |  |  |  |   |
|-------|---------|-------|-------------|---|---|--|--|--|---|
| C3-33 | 4:5:6:5 | 1.633 | C3,E3,G3,E3 |   |   |  |  |  |   |
| O     |         |       |             |   |   |  |  |  |   |
| N     |         |       |             |   |   |  |  |  |   |
| N     |         |       |             |   |   |  |  |  |   |
| N     |         |       |             |   |   |  |  |  |   |
| X     |         |       |             |   |   |  |  |  |   |
| X     |         |       |             |   |   |  |  |  |   |
|       |         | -     | -           | - | - |  |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| C3-34 | 4:5:7:5 | 1.586 | C3,E3,A#4,E3 |   |   |  |  |  |   |
| O     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |         |       |              |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|--|--|--|---|
| C3-35 | 4:6:7:5 | 1.519 | C3,G3,A#4,E3 |   |   |  |  |  |   |
| O     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| N     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
| X     |         |       |              |   |   |  |  |  |   |
|       |         | -     | -            | - | - |  |  |  | - |

|       |         |       |              |   |  |   |   |   |   |   |   |
|-------|---------|-------|--------------|---|--|---|---|---|---|---|---|
| C3-36 | 3:4:6   | 1.5   | G2,C3,G3,E3  |   |  |   |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
| N     |         |       |              |   |  |   | O |   |   |   |   |
| N     |         |       |              | O |  |   |   |   |   |   |   |
| N     |         |       |              | O |  |   |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
|       |         | -     |              | - |  | - |   | - |   |   | - |
| C3-37 | 4:5:6:8 | 1.483 | C3,E3,G3,C4  |   |  |   |   |   |   |   |   |
| N     |         |       |              |   |  |   | O |   |   |   |   |
| N     |         |       |              |   |  |   | O |   |   |   |   |
| N     |         |       |              |   |  |   |   | O |   |   |   |
| N     |         |       |              |   |  |   |   |   | O |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
|       |         | -     |              | - |  | - |   | - |   |   | - |
| C3-38 | 4:5:6:9 | 1.456 | C3,E3,G3,D4  |   |  |   |   |   |   |   |   |
| N     |         |       |              |   |  |   |   | O |   |   |   |
| N     |         |       |              |   |  |   | O |   | O |   |   |
| N     |         |       |              |   |  |   |   | O |   |   |   |
| N     |         |       |              |   |  |   |   |   | O |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
|       |         | -     |              | - |  | - |   | - |   |   | - |
| C3-39 | 4:5:7:8 | 1.436 | C3,E3,A#4,C4 |   |  |   |   |   |   |   |   |
| N     |         |       |              |   |  |   | O |   |   |   |   |
| N     |         |       |              |   |  |   |   |   |   | O |   |
| N     |         |       |              |   |  |   |   | O |   |   |   |
| N     |         |       |              |   |  |   |   |   | O |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
|       |         | -     |              | - |  | - |   | - |   |   | - |
| C3-40 | 4:5:7:9 | 1.408 | C3,E3,A#4,D4 |   |  |   |   |   |   |   |   |
| N     |         |       |              |   |  |   |   | O |   |   |   |
| N     |         |       |              |   |  |   |   |   |   | O |   |
| N     |         |       |              |   |  |   | O |   |   |   |   |
| N     |         |       |              |   |  |   |   | O |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
| X     |         |       |              |   |  |   |   |   |   |   |   |
|       |         | -     |              | - |  | - |   | - |   |   | - |

|       |          |       |              |   |   |  |   |   |   |
|-------|----------|-------|--------------|---|---|--|---|---|---|
| C3-41 | 4:5:7:10 | 1.386 | C3,E3,A#4,E4 |   |   |  |   |   |   |
| N     |          |       |              |   |   |  |   |   | O |
| N     |          |       |              |   |   |  |   |   | O |
| N     |          |       |              |   |   |  | O |   |   |
| N     |          |       |              |   |   |  |   | O |   |
| X     |          |       |              |   |   |  |   |   |   |
| X     |          |       |              |   |   |  |   |   |   |
|       |          | -     | -            | - | - |  |   |   | - |

|       |             |      |                |   |   |   |  |  |   |
|-------|-------------|------|----------------|---|---|---|--|--|---|
| C3-42 | 5:6:8:12:10 | 1.35 | E2,G2,C3,G3,E3 |   |   |   |  |  |   |
| O     |             |      |                |   |   |   |  |  |   |
| N     |             |      |                |   |   | O |  |  |   |
| N     |             |      |                | O |   |   |  |  |   |
| N     |             |      |                | O |   |   |  |  |   |
| N     |             |      |                |   | O |   |  |  |   |
| X     |             |      |                |   |   |   |  |  |   |
|       |             | -    | -              | - | - |   |  |  | - |

|       |         |       |              |   |   |  |   |   |   |
|-------|---------|-------|--------------|---|---|--|---|---|---|
| C3-43 | 4:6:7:9 | 1.341 | C3,G3,A#4,D4 |   |   |  |   |   |   |
| N     |         |       |              |   |   |  | O |   |   |
| N     |         |       |              |   |   |  |   | O |   |
| N     |         |       |              |   |   |  |   |   | O |
| N     |         |       |              |   |   |  | O |   |   |
| X     |         |       |              |   |   |  |   |   |   |
| X     |         |       |              |   |   |  |   |   |   |
|       |         | -     | -            | - | - |  |   |   | - |

|       |             |       |                 |   |   |  |  |  |   |
|-------|-------------|-------|-----------------|---|---|--|--|--|---|
| C3-44 | 5:6:8:10:14 | 1.326 | E2,G2,C3,E3,A#4 |   |   |  |  |  |   |
| N     |             |       |                 | O |   |  |  |  |   |
| N     |             |       |                 | O |   |  |  |  |   |
| N     |             |       |                 | O |   |  |  |  |   |
| N     |             |       |                 | O |   |  |  |  |   |
| N     |             |       |                 |   | O |  |  |  |   |
| X     |             |       |                 |   |   |  |  |  |   |
|       |             | -     | -               | - | - |  |  |  | - |

|       |          |       |              |   |   |  |   |   |   |
|-------|----------|-------|--------------|---|---|--|---|---|---|
| C3-45 | 4:6:7:10 | 1.319 | C3,G3,A#4,E4 |   |   |  |   |   |   |
| N     |          |       |              |   |   |  |   |   | O |
| N     |          |       |              |   |   |  |   | O |   |
| N     |          |       |              |   |   |  |   |   | O |
| N     |          |       |              |   |   |  | O |   |   |
| X     |          |       |              |   |   |  |   |   |   |
| X     |          |       |              |   |   |  |   |   |   |
|       |          | -     | -            | - | - |  |   |   | - |

|       |             |       |                |   |   |   |   |   |  |  |   |
|-------|-------------|-------|----------------|---|---|---|---|---|--|--|---|
| C3-46 | 5:6:8:10:16 | 1.308 | E2,G2,C3,E3,C4 |   |   |   |   |   |  |  |   |
| N     |             |       |                |   |   |   | O |   |  |  |   |
| N     |             |       |                |   | O |   |   |   |  |  |   |
| N     |             |       |                |   | O |   |   |   |  |  |   |
| N     |             |       |                |   | O |   |   |   |  |  |   |
| N     |             |       |                |   |   | O |   |   |  |  |   |
| X     |             |       |                |   |   |   |   |   |  |  |   |
|       |             | -     |                | - |   | - |   | - |  |  | - |

|       |             |       |                 |   |   |   |   |   |  |  |   |
|-------|-------------|-------|-----------------|---|---|---|---|---|--|--|---|
| C3-47 | 5:7:8:12:10 | 1.302 | E2,A#3,C3,G3,E3 |   |   |   |   |   |  |  |   |
| O     |             |       |                 |   |   |   |   |   |  |  |   |
| N     |             |       |                 |   |   |   | O |   |  |  |   |
| N     |             |       |                 |   | O |   |   |   |  |  |   |
| N     |             |       |                 |   |   |   | O |   |  |  |   |
| N     |             |       |                 |   |   | O |   |   |  |  |   |
| X     |             |       |                 |   |   |   |   |   |  |  |   |
|       |             | -     |                 | - |   | - |   | - |  |  | - |

|       |             |       |                 |   |   |   |   |   |  |  |   |
|-------|-------------|-------|-----------------|---|---|---|---|---|--|--|---|
| C3-48 | 5:6:8:12:14 | 1.293 | E2,G2,C3,G3,A#4 |   |   |   |   |   |  |  |   |
| N     |             |       |                 |   | O |   |   |   |  |  |   |
| N     |             |       |                 |   |   |   | O |   |  |  |   |
| N     |             |       |                 |   | O |   |   |   |  |  |   |
| N     |             |       |                 |   | O |   |   |   |  |  |   |
| N     |             |       |                 |   |   | O |   |   |  |  |   |
| X     |             |       |                 |   |   |   |   |   |  |  |   |
|       |             | -     |                 | - |   | - |   | - |  |  | - |

|       |             |       |                  |   |   |   |   |   |  |  |   |
|-------|-------------|-------|------------------|---|---|---|---|---|--|--|---|
| C3-49 | 5:7:8:10:14 | 1.278 | E2,A#3,C3,E3,A#4 |   |   |   |   |   |  |  |   |
| N     |             |       |                  |   | O |   |   |   |  |  |   |
| N     |             |       |                  |   | O |   |   |   |  |  |   |
| N     |             |       |                  |   | O |   |   |   |  |  |   |
| N     |             |       |                  |   |   |   | O |   |  |  |   |
| N     |             |       |                  |   |   | O |   |   |  |  |   |
| X     |             |       |                  |   |   |   |   |   |  |  |   |
|       |             | -     |                  | - |   | - |   | - |  |  | - |

|       |                 |       |                    |   |  |   |  |   |  |  |   |
|-------|-----------------|-------|--------------------|---|--|---|--|---|--|--|---|
| C3-50 | 5:7:10:12:16:20 | 1.277 | E1,A#2,E2,G2,C3,E3 |   |  |   |  |   |  |  |   |
| O     |                 |       |                    |   |  |   |  |   |  |  |   |
| N     | O               |       |                    |   |  |   |  |   |  |  |   |
| O     |                 |       |                    |   |  |   |  |   |  |  |   |
| N     |                 | O     |                    |   |  |   |  |   |  |  |   |
| N     | O               |       |                    |   |  |   |  |   |  |  |   |
| O     |                 |       |                    |   |  |   |  |   |  |  |   |
|       |                 | -     |                    | - |  | - |  | - |  |  | - |

|       |                 |       |                     |
|-------|-----------------|-------|---------------------|
| C3-51 | 5:7:10:14:16:20 | 1.254 | E1,A#2,E2,A#3,C3,E3 |
| O     |                 |       |                     |
| N     | O               |       |                     |
| N     |                 | O     |                     |
| N     | O               |       |                     |
| N     | O               |       |                     |
| O     |                 |       |                     |
|       | -               | -     | -                   |

|       |       |       |          |
|-------|-------|-------|----------|
| C3-52 | 4:5:6 | 1.233 | C3,E3,G3 |
| X     |       |       |          |
| N     |       |       | O        |
| N     |       |       | O        |
| N     |       |       | O        |
| X     |       |       |          |
| X     |       |       |          |
|       | -     | -     | -        |

|       |       |       |          |
|-------|-------|-------|----------|
| C3-53 | 4:5:6 | 1.233 | C3,E3,G3 |
| N     |       | O     |          |
| N     |       |       | O        |
| N     |       | O     |          |
| X     |       |       |          |
| X     |       |       |          |
| X     |       |       |          |
|       | -     | -     | -        |

|       |              |       |                |
|-------|--------------|-------|----------------|
| C3-54 | 5:8:10:12:10 | 1.217 | E2,C3,E3,G3,E3 |
| O     |              |       | O              |
| N     |              |       | O              |
| N     |              |       | O              |
| N     |              | O     |                |
| X     |              |       |                |
|       | -            | -     | -              |

|       |       |       |           |
|-------|-------|-------|-----------|
| C3-55 | 4:5:7 | 1.186 | C3,E3,A#4 |
| X     |       |       |           |
| N     |       |       | O         |
| N     |       | O     |           |
| N     |       | O     |           |
| X     |       |       |           |
| X     |       |       |           |
|       | -     | -     | -         |



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| C3-61 | 5:6:8:12 | 1.15 | E2,G2,C3,G3 |   |  |   |  |
|-------|----------|------|-------------|---|--|---|--|
| N     |          |      | O           |   |  |   |  |
| N     | O        |      |             |   |  |   |  |
| O     |          |      |             |   |  |   |  |
| N     |          | O    |             |   |  |   |  |
| X     |          |      |             |   |  |   |  |
| X     |          |      |             |   |  |   |  |
|       |          | -    |             | - |  | - |  |

| C3-62 | 4:5:8 | 1.15 | C3,E3,C4 |   |   |   |  |
|-------|-------|------|----------|---|---|---|--|
| N     |       |      |          |   | O |   |  |
| N     |       |      | O        |   |   |   |  |
| N     |       |      | O        |   |   |   |  |
| X     |       |      |          |   |   |   |  |
| X     |       |      |          |   |   |   |  |
| X     |       |      |          |   |   |   |  |
|       |       | -    |          | - |   | - |  |

| C3-63 | 5:6:8:12 | 1.15 | E2,G2,C3,G3 |   |   |   |  |
|-------|----------|------|-------------|---|---|---|--|
| X     |          |      |             |   |   |   |  |
| N     |          |      |             |   | O |   |  |
| N     |          |      | O           |   |   |   |  |
| N     |          |      | O           |   |   |   |  |
| N     |          |      |             |   | O |   |  |
| X     |          |      |             |   |   |   |  |
|       |          | -    |             | - |   | - |  |

| C3-64 | 5:6:8:12 | 1.15 | E2,G2,C3,G3 |   |  |   |   |
|-------|----------|------|-------------|---|--|---|---|
| X     |          |      |             |   |  |   |   |
| X     |          |      |             |   |  |   |   |
| N     |          |      |             |   |  |   | O |
| N     |          |      |             |   |  | O |   |
| N     |          |      |             |   |  | O |   |
| N     |          |      |             |   |  |   | O |
|       |          | -    |             | - |  | - |   |

| C3-65 | 5:8:9:12:18 | 1.15 | E2,C3,D3,G3,D4 |   |   |   |  |
|-------|-------------|------|----------------|---|---|---|--|
| N     |             |      |                |   | O |   |  |
| N     |             |      |                |   | O |   |  |
| N     |             |      | O              |   |   |   |  |
| N     |             |      | O              |   |   | O |  |
| N     |             |      | O              |   |   |   |  |
| X     |             |      |                |   |   |   |  |
|       |             | -    |                | - |   | - |  |

|       |          |      |             |   |  |   |   |   |   |  |   |
|-------|----------|------|-------------|---|--|---|---|---|---|--|---|
| C3-66 | 5:8:6:12 | 1.15 | E2,C3,G2,G3 |   |  |   |   |   |   |  |   |
| X     |          |      |             |   |  |   |   |   |   |  |   |
| N     |          |      |             |   |  |   | O |   |   |  |   |
| O     |          |      |             |   |  |   |   |   |   |  |   |
| N     |          |      |             |   |  |   |   |   | O |  |   |
| N     |          |      |             |   |  |   | O |   |   |  |   |
| X     |          |      |             |   |  |   |   |   |   |  |   |
|       |          | -    |             | - |  | - |   | - |   |  | - |

|       |          |       |              |   |  |   |   |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|---|---|--|--|---|
| C3-67 | 5:7:8:10 | 1.136 | E2,A#3,C3,E3 |   |  |   |   |   |  |  |   |
| X     |          |       |              |   |  |   |   |   |  |  |   |
| N     |          |       |              | O |  |   |   |   |  |  |   |
| N     |          |       |              | O |  |   |   |   |  |  |   |
| N     |          |       |              |   |  |   | O |   |  |  |   |
| N     |          |       |              |   |  |   | O |   |  |  |   |
| X     |          |       |              |   |  |   |   |   |  |  |   |
|       |          | -     |              | - |  | - |   | - |  |  | - |

|       |          |       |              |   |  |   |  |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|--|---|--|--|---|
| C3-68 | 5:7:8:10 | 1.136 | E2,A#3,C3,E3 |   |  |   |  |   |  |  |   |
| O     |          |       |              |   |  |   |  |   |  |  |   |
| N     | O        |       |              |   |  |   |  |   |  |  |   |
| N     |          |       |              |   |  |   |  |   |  |  |   |
| N     |          | O     |              |   |  |   |  |   |  |  |   |
| N     |          | O     |              |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
| X     |          |       |              |   |  |   |  |   |  |  |   |
|       |          | -     |              | - |  | - |  | - |  |  | - |

|       |              |       |                |   |  |   |   |   |   |   |   |
|-------|--------------|-------|----------------|---|--|---|---|---|---|---|---|
| C3-69 | 5:8:10:12:18 | 1.128 | E2,C3,E3,G3,D4 |   |  |   |   |   |   |   |   |
| N     |              |       |                |   |  |   |   |   | O |   |   |
| N     |              |       |                |   |  |   |   | O |   |   |   |
| N     |              |       |                |   |  |   |   |   | O |   |   |
| N     |              |       |                |   |  |   |   |   |   | O |   |
| N     |              |       |                |   |  |   | O |   |   |   |   |
| X     |              |       |                |   |  |   |   |   |   |   |   |
|       |              | -     |                | - |  | - |   | - |   |   | - |

|       |          |       |              |   |  |   |   |   |  |  |   |
|-------|----------|-------|--------------|---|--|---|---|---|--|--|---|
| C3-70 | 5:7:8:12 | 1.102 | E2,A#3,C3,G3 |   |  |   |   |   |  |  |   |
| X     |          |       |              |   |  |   |   |   |  |  |   |
| N     |          |       |              |   |  |   |   | O |  |  |   |
| N     |          |       |              | O |  |   |   |   |  |  |   |
| N     |          |       |              |   |  |   |   | O |  |  |   |
| N     |          |       |              |   |  |   | O |   |  |  |   |
| X     |          |       |              |   |  |   |   |   |  |  |   |
|       |          | -     |              | - |  | - |   | - |  |  | - |

|       |          |       |              |   |   |  |   |
|-------|----------|-------|--------------|---|---|--|---|
| C3-71 | 5:7:8:12 | 1.102 | E2,A#3,C3,G3 |   |   |  |   |
| N     |          |       | O            |   |   |  |   |
| N     | O        |       |              |   |   |  |   |
| N     |          | O     |              |   |   |  |   |
| N     |          | O     |              |   |   |  |   |
| X     |          |       |              |   |   |  |   |
| X     |          |       |              |   |   |  |   |
|       |          | -     | -            | - | - |  | - |

|       |          |       |             |   |   |  |   |
|-------|----------|-------|-------------|---|---|--|---|
| C3-72 | 5:8:9:10 | 1.072 | E2,C3,D3,E3 |   |   |  |   |
| O     |          |       |             |   |   |  |   |
| N     |          | O     |             |   |   |  |   |
| N     |          |       | O           |   |   |  |   |
| N     | O        |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
|       |          | -     | -           | - | - |  | - |

|       |           |      |             |   |   |  |   |
|-------|-----------|------|-------------|---|---|--|---|
| C3-73 | 5:8:10:10 | 1.05 | E2,C3,E3,E3 |   |   |  |   |
| O     |           |      |             |   |   |  |   |
| N     |           |      | O           |   |   |  |   |
| N     |           |      | O           |   |   |  |   |
| N     | O         |      |             |   |   |  |   |
| X     |           |      |             |   |   |  |   |
| X     |           |      |             |   |   |  |   |
|       |           | -    | -           | - | - |  | - |

|       |          |       |             |   |   |   |   |
|-------|----------|-------|-------------|---|---|---|---|
| C3-74 | 5:8:9:12 | 1.039 | E2,C3,D3,G3 |   |   |   |   |
| X     |          |       |             |   |   |   |   |
| N     |          |       |             | O | O |   |   |
| N     |          |       |             | O |   |   |   |
| N     |          |       |             |   |   | O |   |
| N     |          |       |             | O |   |   |   |
| X     |          |       |             |   |   |   |   |
|       |          | -     | -           | - | - |   | - |

|       |          |       |             |   |   |  |   |
|-------|----------|-------|-------------|---|---|--|---|
| C3-75 | 5:8:9:12 | 1.039 | E2,C3,D3,G3 |   |   |  |   |
| N     |          | O     |             |   |   |  |   |
| N     |          | O     |             |   |   |  |   |
| N     |          |       | O           |   |   |  |   |
| N     | O        |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
| X     |          |       |             |   |   |  |   |
|       |          | -     | -           | - | - |  | - |

| C3-76 | 5:8:10:12 | 1.017 | E2,C3,E3,G3 |   |   |  |   |   |   |   |
|-------|-----------|-------|-------------|---|---|--|---|---|---|---|
| X     |           |       |             |   |   |  |   |   |   |   |
| N     |           |       |             |   |   |  | O |   |   |   |
| N     |           |       |             |   |   |  |   | O |   |   |
| N     |           |       |             |   |   |  |   |   | O |   |
| N     |           |       |             |   |   |  | O |   |   |   |
| X     |           |       |             |   |   |  |   |   |   |   |
|       |           | -     | -           | - | - |  |   |   |   | - |

| C3-77 | 5:8:10:12 | 1.017 | E2,C3,E3,G3 |   |   |  |  |  |  |   |
|-------|-----------|-------|-------------|---|---|--|--|--|--|---|
| N     |           |       | O           |   |   |  |  |  |  |   |
| N     |           |       |             | O |   |  |  |  |  |   |
| N     |           |       |             | O |   |  |  |  |  |   |
| N     | O         |       |             |   |   |  |  |  |  |   |
| X     |           |       |             |   |   |  |  |  |  |   |
| X     |           |       |             |   |   |  |  |  |  |   |
|       |           | -     | -           | - | - |  |  |  |  | - |

| C3-78 | 6:8:9:10 | 1.006 | G2,C3,D3,E3 |   |   |  |  |  |  |   |
|-------|----------|-------|-------------|---|---|--|--|--|--|---|
| O     |          |       |             |   |   |  |  |  |  |   |
| N     |          |       | O           |   |   |  |  |  |  |   |
| N     |          |       |             | O |   |  |  |  |  |   |
| N     |          |       |             | O |   |  |  |  |  |   |
| X     |          |       |             |   |   |  |  |  |  |   |
| X     |          |       |             |   |   |  |  |  |  |   |
|       |          | -     | -           | - | - |  |  |  |  | - |

| C3-79 | 5:10:12:16:20 | 0.992 | E1,E2,G2,C3,E3 |   |   |   |  |  |  |   |
|-------|---------------|-------|----------------|---|---|---|--|--|--|---|
| X     |               |       |                |   |   |   |  |  |  |   |
| N     |               |       |                | O |   |   |  |  |  |   |
| N     |               |       |                | O |   |   |  |  |  |   |
| N     |               |       |                | O |   |   |  |  |  |   |
| N     |               |       |                |   |   | O |  |  |  |   |
| O     |               |       |                |   |   |   |  |  |  |   |
|       |               | -     | -              | - | - |   |  |  |  | - |

| C3-80 | 5:6:8 | 0.983 | E2,G2,C3 |   |   |  |  |   |  |   |
|-------|-------|-------|----------|---|---|--|--|---|--|---|
| X     |       |       |          |   |   |  |  |   |  |   |
| X     |       |       |          |   |   |  |  |   |  |   |
| O     |       |       |          |   |   |  |  |   |  |   |
| N     |       |       |          |   |   |  |  | O |  |   |
| N     |       |       |          |   |   |  |  | O |  |   |
| N     |       |       |          |   |   |  |  |   |  | O |
|       |       | -     | -        | - | - |  |  |   |  | - |

|       |          |       |             |  |   |  |   |  |   |
|-------|----------|-------|-------------|--|---|--|---|--|---|
| C3-81 | 6:8:9:12 | 0.972 | G2,C3,D3,G3 |  |   |  |   |  |   |
| N     |          | O     |             |  |   |  |   |  |   |
| N     |          | O     |             |  |   |  |   |  |   |
| N     |          |       | O           |  |   |  |   |  |   |
| N     |          |       | O           |  |   |  |   |  |   |
| X     |          |       |             |  |   |  |   |  |   |
| X     |          |       |             |  |   |  |   |  |   |
|       | -        |       | -           |  | - |  | - |  | - |

|       |          |       |             |  |   |   |   |  |   |
|-------|----------|-------|-------------|--|---|---|---|--|---|
| C3-82 | 6:8:9:12 | 0.972 | G2,C3,D3,G3 |  |   |   |   |  |   |
| X     |          |       |             |  |   |   |   |  |   |
| N     |          |       |             |  |   | O |   |  |   |
| N     |          |       |             |  | O |   |   |  |   |
| N     |          |       |             |  |   |   | O |  |   |
| N     |          |       |             |  |   |   | O |  |   |
| X     |          |       |             |  |   |   |   |  |   |
|       | -        |       | -           |  | - |   | - |  | - |

|       |               |       |                 |  |   |  |   |  |   |
|-------|---------------|-------|-----------------|--|---|--|---|--|---|
| C3-83 | 5:10:14:16:20 | 0.968 | E1,E2,A#3,C3,E3 |  |   |  |   |  |   |
| X     |               |       |                 |  |   |  |   |  |   |
| N     |               |       | O               |  |   |  |   |  |   |
| N     |               |       | O               |  |   |  |   |  |   |
| N     |               |       |                 |  | O |  |   |  |   |
| N     |               |       |                 |  | O |  |   |  |   |
| O     |               |       |                 |  |   |  |   |  |   |
|       | -             |       | -               |  | - |  | - |  | - |

|       |           |       |              |  |   |   |   |  |   |
|-------|-----------|-------|--------------|--|---|---|---|--|---|
| C3-84 | 7:8:12:10 | 0.902 | A#3,C3,G3,E3 |  |   |   |   |  |   |
| O     |           |       |              |  |   |   |   |  |   |
| N     |           |       |              |  |   | O |   |  |   |
| N     |           |       | O            |  |   |   |   |  |   |
| N     |           |       |              |  |   | O |   |  |   |
| X     |           |       |              |  |   |   |   |  |   |
| X     |           |       |              |  |   |   |   |  |   |
|       | -         |       | -            |  | - |   | - |  | - |

|       |            |       |             |  |   |  |   |  |   |
|-------|------------|-------|-------------|--|---|--|---|--|---|
| C3-85 | 5:10:12:16 | 0.892 | E1,E2,G2,C3 |  |   |  |   |  |   |
| X     |            |       |             |  |   |  |   |  |   |
| X     |            |       |             |  |   |  |   |  |   |
| N     |            |       | O           |  |   |  |   |  |   |
| N     |            |       | O           |  |   |  |   |  |   |
| N     |            |       |             |  | O |  |   |  |   |
| O     |            |       |             |  |   |  |   |  |   |
|       | -          |       | -           |  | - |  | - |  | - |

|       |            |       |              |   |  |   |   |   |  |   |
|-------|------------|-------|--------------|---|--|---|---|---|--|---|
| C3-86 | 5:10:14:16 | 0.868 | E1,E2,A#3,C3 |   |  |   |   |   |  |   |
| X     |            |       |              |   |  |   |   |   |  |   |
| X     |            |       |              |   |  |   |   |   |  |   |
| N     |            |       |              | O |  |   |   |   |  |   |
| N     |            |       |              |   |  |   | O |   |  |   |
| N     |            |       |              |   |  | O |   |   |  |   |
| O     |            |       |              |   |  |   |   |   |  |   |
|       |            | -     |              | - |  | - |   | - |  | - |

|       |           |       |              |   |  |   |   |   |  |   |
|-------|-----------|-------|--------------|---|--|---|---|---|--|---|
| C3-87 | 7:8:10:16 | 0.861 | A#3,C3,E3,C4 |   |  |   |   |   |  |   |
| N     |           |       |              |   |  |   | O |   |  |   |
| N     |           |       |              | O |  |   |   |   |  |   |
| N     |           |       |              | O |  |   |   |   |  |   |
| N     |           |       |              |   |  |   | O |   |  |   |
| X     |           |       |              |   |  |   |   |   |  |   |
| X     |           |       |              |   |  |   |   |   |  |   |
|       |           | -     |              | - |  | - |   | - |  | - |

|       |            |       |             |   |  |   |  |   |  |   |
|-------|------------|-------|-------------|---|--|---|--|---|--|---|
| C3-88 | 5:12:16:12 | 0.858 | E1,G2,C3,G2 |   |  |   |  |   |  |   |
| X     |            |       |             |   |  |   |  |   |  |   |
| X     |            |       |             |   |  |   |  |   |  |   |
| O     |            |       |             |   |  |   |  |   |  |   |
| N     |            |       |             |   |  |   |  | O |  |   |
| N     |            |       |             |   |  |   |  | O |  |   |
| O     |            |       |             |   |  |   |  |   |  |   |
|       |            | -     |             | - |  | - |  | - |  | - |

|       |        |      |          |   |  |   |  |   |  |   |
|-------|--------|------|----------|---|--|---|--|---|--|---|
| C3-89 | 5:8:10 | 0.85 | E2,C3,E3 |   |  |   |  |   |  |   |
| X     |        |      |          |   |  |   |  |   |  |   |
| N     |        |      |          | O |  |   |  |   |  |   |
| N     |        |      |          | O |  |   |  |   |  |   |
| N     | O      |      |          |   |  |   |  |   |  |   |
| X     |        |      |          |   |  |   |  |   |  |   |
| X     |        |      |          |   |  |   |  |   |  |   |
|       |        | -    |          | - |  | - |  | - |  | - |

|       |           |       |               |   |   |   |   |   |  |   |
|-------|-----------|-------|---------------|---|---|---|---|---|--|---|
| C3-90 | 7:8:12:14 | 0.845 | A#3,C3,G3,A#4 |   |   |   |   |   |  |   |
| N     |           |       |               |   | O |   |   |   |  |   |
| N     |           |       |               |   |   |   | O |   |  |   |
| N     |           |       |               | O |   |   |   |   |  |   |
| N     |           |       |               |   |   |   | O |   |  |   |
| X     |           |       |               |   |   |   |   |   |  |   |
| X     |           |       |               |   |   |   |   |   |  |   |
|       |           | -     |               | - |   | - |   | - |  | - |

|       |           |       |             |  |  |  |  |
|-------|-----------|-------|-------------|--|--|--|--|
| C3-91 | 8:9:12:10 | 0.839 | C3,D3,G3,E3 |  |  |  |  |
| O     |           |       |             |  |  |  |  |
| N     |           |       |             |  |  |  |  |
| N     |           |       |             |  |  |  |  |
| N     |           |       |             |  |  |  |  |
| X     |           |       |             |  |  |  |  |
| X     |           |       |             |  |  |  |  |
|       |           |       |             |  |  |  |  |

|       |            |       |             |  |  |  |  |
|-------|------------|-------|-------------|--|--|--|--|
| C3-92 | 5:10:16:18 | 0.836 | E1,E2,C3,D3 |  |  |  |  |
| X     |            |       |             |  |  |  |  |
| X     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| O     |            |       |             |  |  |  |  |
|       |            |       |             |  |  |  |  |

|       |            |       |             |  |  |  |  |
|-------|------------|-------|-------------|--|--|--|--|
| C3-93 | 5:12:16:18 | 0.803 | E1,G2,C3,D3 |  |  |  |  |
| X     |            |       |             |  |  |  |  |
| X     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| O     |            |       |             |  |  |  |  |
|       |            |       |             |  |  |  |  |

|       |            |       |             |  |  |  |  |
|-------|------------|-------|-------------|--|--|--|--|
| C3-94 | 5:12:16:20 | 0.792 | E1,G2,C3,E3 |  |  |  |  |
| X     |            |       |             |  |  |  |  |
| X     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| N     |            |       |             |  |  |  |  |
| O     |            |       |             |  |  |  |  |
|       |            |       |             |  |  |  |  |

|       |            |       |              |  |  |  |  |
|-------|------------|-------|--------------|--|--|--|--|
| C3-95 | 7:10:12:16 | 0.777 | A#2,E2,G2,C3 |  |  |  |  |
| X     |            |       |              |  |  |  |  |
| N     |            |       |              |  |  |  |  |
| O     |            |       |              |  |  |  |  |
| N     |            |       |              |  |  |  |  |
| N     |            |       |              |  |  |  |  |
| X     |            |       |              |  |  |  |  |
|       |            |       |              |  |  |  |  |



|       |            |       |              |  |   |   |   |  |   |  |   |
|-------|------------|-------|--------------|--|---|---|---|--|---|--|---|
| C3-96 | 7:10:12:16 | 0.777 | A#2,E2,G2,C3 |  |   |   |   |  |   |  |   |
| X     |            |       |              |  |   |   |   |  |   |  |   |
| X     |            |       |              |  |   |   |   |  |   |  |   |
| N     |            |       |              |  | O |   |   |  |   |  |   |
| N     |            |       |              |  | O |   |   |  |   |  |   |
| N     |            |       |              |  |   | O |   |  |   |  |   |
| N     |            |       |              |  |   | O |   |  |   |  |   |
|       |            |       | -            |  | - |   | - |  | - |  | - |

|       |            |       |               |  |   |   |   |   |   |  |   |
|-------|------------|-------|---------------|--|---|---|---|---|---|--|---|
| C3-97 | 7:10:14:16 | 0.754 | A#2,E2,A#3,C3 |  |   |   |   |   |   |  |   |
| X     |            |       |               |  |   |   |   |   |   |  |   |
| X     |            |       |               |  | O |   |   |   |   |  |   |
| N     |            |       |               |  |   |   |   | O |   |  |   |
| N     |            |       |               |  |   | O |   |   |   |  |   |
| N     |            |       |               |  |   | O |   |   |   |  |   |
| N     |            |       |               |  |   | O |   |   |   |  |   |
|       |            |       | -             |  | - |   | - |   | - |  | - |

|       |            |       |               |  |   |  |   |  |   |  |   |
|-------|------------|-------|---------------|--|---|--|---|--|---|--|---|
| C3-98 | 7:10:14:16 | 0.754 | A#2,E2,A#3,C3 |  |   |  |   |  |   |  |   |
| X     |            |       |               |  |   |  |   |  |   |  |   |
| N     | O          |       |               |  |   |  |   |  |   |  |   |
| N     |            |       | O             |  |   |  |   |  |   |  |   |
| N     |            | O     |               |  |   |  |   |  |   |  |   |
| N     | O          |       |               |  |   |  |   |  |   |  |   |
| X     |            |       |               |  |   |  |   |  |   |  |   |
|       |            |       | -             |  | - |  | - |  | - |  | - |

|       |           |      |             |  |   |   |   |   |   |  |   |
|-------|-----------|------|-------------|--|---|---|---|---|---|--|---|
| C3-99 | 8:9:12:18 | 0.75 | C3,D3,G3,D4 |  |   |   |   |   |   |  |   |
| N     |           |      |             |  |   |   |   | O |   |  |   |
| N     |           |      |             |  |   |   | O |   |   |  |   |
| N     |           |      |             |  |   | O |   |   |   |  |   |
| N     |           |      |             |  |   |   |   | O |   |  |   |
| X     |           |      |             |  |   |   |   |   |   |  |   |
| X     |           |      |             |  |   |   |   |   |   |  |   |
|       |           |      | -           |  | - |   | - |   | - |  | - |

| C#3-1 | 3:4:6:8 | 1.75 | G#2, C#3, G#3, C#4 |   |  |   |  |   |  |   |
|-------|---------|------|--------------------|---|--|---|--|---|--|---|
| N     |         |      |                    |   |  |   |  | O |  |   |
| N     |         |      |                    |   |  |   |  | O |  |   |
| N     |         |      |                    |   |  | O |  |   |  |   |
| N     |         |      |                    |   |  | O |  |   |  |   |
| X     |         |      |                    |   |  |   |  |   |  |   |
| X     |         |      |                    |   |  |   |  |   |  |   |
|       |         | -    |                    | - |  | - |  | - |  | - |

| C#3-2 | 6:8:9:12 | 0.972 | G#2, C#3, D#3, G#3 |   |   |   |  |   |  |   |
|-------|----------|-------|--------------------|---|---|---|--|---|--|---|
| N     |          |       | O                  |   |   |   |  |   |  |   |
| N     |          |       | O                  |   |   |   |  |   |  |   |
| N     |          |       |                    |   | O |   |  |   |  |   |
| N     |          |       |                    |   | O |   |  |   |  |   |
| X     |          |       |                    |   |   |   |  |   |  |   |
| X     |          |       |                    |   |   |   |  |   |  |   |
|       |          | -     |                    | - |   | - |  | - |  | - |

| D3-1 | 4:5:8 | 1.15 | D3,F#3,D4 |  |   |  |   |  |   |   |  |   |
|------|-------|------|-----------|--|---|--|---|--|---|---|--|---|
| N    |       |      |           |  |   |  |   |  |   | O |  |   |
| N    |       |      |           |  |   |  | O |  |   |   |  |   |
| N    |       |      |           |  |   |  | O |  |   |   |  |   |
| X    |       |      |           |  |   |  |   |  |   |   |  |   |
| X    |       |      |           |  |   |  |   |  |   |   |  |   |
| X    |       |      |           |  |   |  |   |  |   |   |  |   |
|      |       |      | -         |  | - |  | - |  | - |   |  | - |

| D#3-1 | 3:4:6:8 | 1.75 | A#3,D#3,A#4,D#4 |  |   |  |   |  |   |  |   |   |
|-------|---------|------|-----------------|--|---|--|---|--|---|--|---|---|
| N     |         |      |                 |  |   |  |   |  |   |  | O |   |
| N     |         |      |                 |  |   |  |   |  |   |  | O |   |
| N     |         |      |                 |  |   |  | O |  |   |  |   |   |
| N     |         |      |                 |  |   |  | O |  |   |  |   |   |
| X     |         |      |                 |  |   |  |   |  |   |  |   |   |
| X     |         |      |                 |  |   |  |   |  |   |  |   |   |
|       |         |      | -               |  | - |  | - |  | - |  |   | - |

|      |         |       |             |   |   |   |   |
|------|---------|-------|-------------|---|---|---|---|
| E3-1 | 3:4:3:4 | 2.333 | B3,E3,B3,E3 |   |   |   |   |
| O    |         |       |             |   |   |   |   |
| O    |         |       |             |   |   |   |   |
| N    |         |       |             |   |   | O |   |
| N    |         |       |             |   |   | O |   |
| X    |         |       |             |   |   |   |   |
| X    |         |       |             |   |   |   |   |
|      | -       | -     | -           | - | - | - | - |

|      |         |       |             |   |   |   |   |
|------|---------|-------|-------------|---|---|---|---|
| E3-2 | 3:4:3:6 | 2.167 | B3,E3,B3,B4 |   |   |   |   |
| N    |         |       |             | O |   |   |   |
| O    |         |       |             |   |   |   |   |
| N    |         |       |             |   | O |   |   |
| N    |         |       |             |   | O |   |   |
| X    |         |       |             |   |   |   |   |
| X    |         |       |             |   |   |   |   |
|      | -       | -     | -           | - | - | - | - |

|      |         |       |             |   |   |   |   |
|------|---------|-------|-------------|---|---|---|---|
| E3-3 | 3:4:3:8 | 2.083 | B3,E3,B3,E4 |   |   |   | O |
| N    |         |       |             |   |   |   |   |
| O    |         |       |             |   |   |   |   |
| N    |         |       |             |   | O |   |   |
| N    |         |       |             |   | O |   |   |
| X    |         |       |             |   |   |   |   |
| X    |         |       |             |   |   |   |   |
|      | -       | -     | -           | - | - | - | - |

|      |         |       |              |   |   |   |   |
|------|---------|-------|--------------|---|---|---|---|
| E3-4 | 3:4:5:4 | 2.067 | B3,E3,G#3,E3 |   |   |   |   |
| O    |         |       |              |   |   |   |   |
| N    |         |       |              |   | O |   |   |
| N    |         |       |              |   | O |   |   |
| N    |         |       |              |   | O |   |   |
| X    |         |       |              |   |   |   |   |
| X    |         |       |              |   |   |   |   |
|      | -       | -     | -            | - | - | - | - |

|      |         |     |             |   |   |   |   |
|------|---------|-----|-------------|---|---|---|---|
| E3-5 | 3:4:6:4 | 2.0 | B3,E3,B4,E3 |   |   |   |   |
| O    |         |     |             |   |   |   |   |
| N    |         |     |             |   |   |   | O |
| N    |         |     |             |   | O |   |   |
| N    |         |     |             |   | O |   |   |
| X    |         |     |             |   |   |   |   |
| X    |         |     |             |   |   |   |   |
|      | -       | -   | -           | - | - | - | - |

|      |         |     |              |   |  |   |   |  |  |   |
|------|---------|-----|--------------|---|--|---|---|--|--|---|
| E3-6 | 3:4:5:6 | 1.9 | B3,E3,G#3,B4 |   |  |   |   |  |  |   |
| N    |         |     |              |   |  | O |   |  |  |   |
| N    |         |     |              |   |  |   | O |  |  |   |
| N    |         |     |              |   |  |   | O |  |  |   |
| N    |         |     |              |   |  |   | O |  |  |   |
| X    |         |     |              |   |  |   |   |  |  |   |
| X    |         |     |              |   |  |   |   |  |  |   |
|      |         | -   |              | - |  | - |   |  |  | - |

|      |         |       |              |   |  |   |   |  |  |   |
|------|---------|-------|--------------|---|--|---|---|--|--|---|
| E3-7 | 3:4:5:8 | 1.817 | B3,E3,G#3,E4 |   |  |   |   |  |  |   |
| N    |         |       |              |   |  |   |   |  |  | O |
| N    |         |       |              |   |  |   | O |  |  |   |
| N    |         |       |              |   |  |   | O |  |  |   |
| N    |         |       |              |   |  |   | O |  |  |   |
| X    |         |       |              |   |  |   |   |  |  |   |
| X    |         |       |              |   |  |   |   |  |  |   |
|      |         | -     |              | - |  | - |   |  |  | - |

|      |         |      |             |   |  |   |   |  |  |   |
|------|---------|------|-------------|---|--|---|---|--|--|---|
| E3-8 | 3:4:6:8 | 1.75 | B3,E3,B4,E4 |   |  |   |   |  |  |   |
| N    |         |      |             |   |  |   |   |  |  | O |
| N    |         |      |             |   |  |   |   |  |  | O |
| N    |         |      |             |   |  |   | O |  |  |   |
| N    |         |      |             |   |  |   | O |  |  |   |
| X    |         |      |             |   |  |   |   |  |  |   |
| X    |         |      |             |   |  |   |   |  |  |   |
|      |         | -    |             | - |  | - |   |  |  | - |

|      |         |       |              |   |   |   |  |  |  |   |
|------|---------|-------|--------------|---|---|---|--|--|--|---|
| E3-9 | 5:6:6:8 | 1.317 | G#2,B3,B3,E3 |   |   |   |  |  |  |   |
| O    |         |       |              |   |   |   |  |  |  |   |
| O    |         |       |              |   |   |   |  |  |  |   |
| N    |         |       | O            |   |   |   |  |  |  |   |
| N    |         |       |              |   | O |   |  |  |  |   |
| X    |         |       |              |   |   |   |  |  |  |   |
| X    |         |       |              |   |   |   |  |  |  |   |
|      |         | -     |              | - |   | - |  |  |  | - |

|       |         |       |              |   |   |   |  |  |  |   |
|-------|---------|-------|--------------|---|---|---|--|--|--|---|
| E3-10 | 5:6:8:8 | 1.233 | G#2,B3,E3,E3 |   |   |   |  |  |  |   |
| O     |         |       |              |   |   |   |  |  |  |   |
| N     |         |       |              | O |   |   |  |  |  |   |
| N     |         |       | O            |   |   |   |  |  |  |   |
| N     |         |       |              |   | O |   |  |  |  |   |
| X     |         |       |              |   |   |   |  |  |  |   |
| X     |         |       |              |   |   |   |  |  |  |   |
|       |         | -     |              | - |   | - |  |  |  | - |

|       |         |       |              |   |   |   |   |
|-------|---------|-------|--------------|---|---|---|---|
| E3-11 | 5:8:6:8 | 1.233 | G#2,E3,B3,E3 |   |   |   |   |
| O     |         |       |              |   |   |   |   |
| O     |         |       |              |   |   |   |   |
| N     |         |       |              |   |   | O |   |
| N     |         |       |              | O |   |   |   |
| X     |         |       |              |   |   |   |   |
| X     |         |       |              |   |   |   |   |
|       |         | -     | -            | - | - |   | - |

|       |         |       |               |   |   |  |   |
|-------|---------|-------|---------------|---|---|--|---|
| E3-12 | 5:6:9:8 | 1.206 | G#2,B3,F#3,E3 |   |   |  |   |
| O     |         |       |               |   |   |  |   |
| N     |         |       |               |   | O |  |   |
| N     |         |       | O             |   |   |  |   |
| N     |         |       |               | O |   |  |   |
| X     |         |       |               |   |   |  |   |
| X     |         |       |               |   |   |  |   |
|       |         | -     | -             | - | - |  | - |

|       |          |       |               |   |   |  |   |
|-------|----------|-------|---------------|---|---|--|---|
| E3-13 | 5:6:8:10 | 1.183 | G#2,B3,E3,G#3 |   |   |  |   |
| N     |          |       | O             |   |   |  |   |
| N     |          |       |               | O |   |  |   |
| N     |          |       | O             |   |   |  |   |
| N     |          |       |               | O |   |  |   |
| X     |          |       |               |   |   |  |   |
| X     |          |       |               |   |   |  |   |
|       |          | -     | -             | - | - |  | - |

|       |          |      |              |   |   |  |   |
|-------|----------|------|--------------|---|---|--|---|
| E3-14 | 5:6:8:12 | 1.15 | G#2,B3,E3,B4 |   |   |  |   |
| N     |          |      |              | O |   |  |   |
| N     |          |      |              |   | O |  |   |
| N     |          | O    |              |   |   |  |   |
| N     |          |      | O            |   |   |  |   |
| X     |          |      |              |   |   |  |   |
| X     |          |      |              |   |   |  |   |
|       |          | -    | -            | - | - |  | - |

|       |         |       |              |   |   |   |   |
|-------|---------|-------|--------------|---|---|---|---|
| E3-15 | 6:9:6:8 | 1.139 | B3,F#3,B3,E3 |   |   |   |   |
| O     |         |       |              |   |   |   |   |
| O     |         |       |              |   |   |   |   |
| N     |         |       |              |   |   | O |   |
| N     |         |       |              |   | O |   |   |
| X     |         |       |              |   |   |   |   |
| X     |         |       |              |   |   |   |   |
|       |         | -     | -            | - | - |   | - |

|       |         |       |               |   |   |  |   |   |
|-------|---------|-------|---------------|---|---|--|---|---|
| E3-16 | 5:8:9:8 | 1.122 | G#2,E3,F#3,E3 |   |   |  |   |   |
| O     |         |       |               |   |   |  |   |   |
| N     |         |       |               | O |   |  |   |   |
| N     |         |       |               |   |   |  | O |   |
| N     |         |       |               | O |   |  |   |   |
| X     |         |       |               |   |   |  |   |   |
| X     |         |       |               |   |   |  |   |   |
|       |         | -     | -             | - | - |  |   | - |

|       |          |     |               |   |   |  |   |   |
|-------|----------|-----|---------------|---|---|--|---|---|
| E3-17 | 5:8:10:8 | 1.1 | G#2,E3,G#3,E3 |   |   |  |   |   |
| O     |          |     |               |   |   |  |   |   |
| N     |          |     |               |   |   |  | O |   |
| N     |          |     |               |   |   |  | O |   |
| N     |          |     |               | O |   |  |   |   |
| X     |          |     |               |   |   |  |   |   |
| X     |          |     |               |   |   |  |   |   |
|       |          | -   | -             | - | - |  |   | - |

|       |         |       |              |   |   |  |   |   |
|-------|---------|-------|--------------|---|---|--|---|---|
| E3-18 | 6:8:9:8 | 1.056 | B3,E3,F#3,E3 |   |   |  |   |   |
| O     |         |       |              |   |   |  |   |   |
| N     |         |       |              | O |   |  |   |   |
| N     |         |       |              |   |   |  | O |   |
| N     |         |       |              |   |   |  | O |   |
| X     |         |       |              |   |   |  |   |   |
| X     |         |       |              |   |   |  |   |   |
|       |         | -     | -            | - | - |  |   | - |

|       |          |       |               |   |   |  |   |   |
|-------|----------|-------|---------------|---|---|--|---|---|
| E3-19 | 5:8:9:12 | 1.039 | G#2,E3,F#3,B4 |   |   |  |   |   |
| N     |          |       |               | O |   |  |   |   |
| N     |          |       |               | O |   |  |   |   |
| N     |          |       |               |   |   |  | O |   |
| N     |          |       |               | O |   |  |   |   |
| X     |          |       |               |   |   |  |   |   |
| X     |          |       |               |   |   |  |   |   |
|       |          | -     | -             | - | - |  |   | - |

|       |           |       |               |   |   |  |   |   |
|-------|-----------|-------|---------------|---|---|--|---|---|
| E3-20 | 5:8:10:12 | 1.017 | G#2,E3,G#3,B4 |   |   |  |   |   |
| N     |           |       |               | O |   |  |   |   |
| N     |           |       |               |   |   |  | O |   |
| N     |           |       |               |   |   |  | O |   |
| N     |           |       |               | O |   |  |   |   |
| X     |           |       |               |   |   |  |   |   |
| X     |           |       |               |   |   |  |   |   |
|       |           | -     | -             | - | - |  |   | - |

|       |          |       |               |   |   |   |
|-------|----------|-------|---------------|---|---|---|
| E3-21 | 6:9:10:8 | 1.006 | B3,F#3,G#3,E3 |   |   |   |
| O     |          |       |               |   |   |   |
| N     |          |       |               |   | O |   |
| N     |          |       |               |   |   | O |
| N     |          |       |               |   | O |   |
| X     |          |       |               |   |   |   |
| X     |          |       |               |   |   |   |
|       |          | -     | -             | - | - | - |

|       |          |       |              |   |   |   |
|-------|----------|-------|--------------|---|---|---|
| E3-22 | 6:8:9:12 | 0.972 | B3,E3,F#3,B4 |   |   |   |
| N     |          |       |              | O |   |   |
| N     |          |       |              | O |   |   |
| N     |          |       |              |   | O |   |
| N     |          |       |              |   | O |   |
| X     |          |       |              |   |   |   |
| X     |          |       |              |   |   |   |
|       |          | -     | -            | - | - | - |

|       |          |       |              |   |   |   |
|-------|----------|-------|--------------|---|---|---|
| E3-23 | 6:9:12:8 | 0.972 | B3,F#3,B4,E3 |   |   |   |
| O     |          |       |              |   |   |   |
| N     |          |       |              |   |   | O |
| N     |          |       |              |   |   | O |
| N     |          |       |              |   | O |   |
| X     |          |       |              |   |   |   |
| X     |          |       |              |   |   |   |
|       |          | -     | -            | - | - | - |



|      |         |     |             |   |  |   |   |   |   |  |   |
|------|---------|-----|-------------|---|--|---|---|---|---|--|---|
| F3-1 | 3:4:5:6 | 1.9 | C3,F3,A4,C4 |   |  |   |   |   |   |  |   |
| N    |         |     |             |   |  |   | O |   |   |  |   |
| N    |         |     |             |   |  |   |   |   | O |  |   |
| N    |         |     |             |   |  |   |   |   | O |  |   |
| N    |         |     |             |   |  |   |   |   | O |  |   |
| X    |         |     |             |   |  |   |   |   |   |  |   |
| X    |         |     |             |   |  |   |   |   |   |  |   |
|      |         | -   |             | - |  | - |   | - |   |  | - |

|      |         |       |              |   |  |   |  |   |   |   |   |
|------|---------|-------|--------------|---|--|---|--|---|---|---|---|
| F3-2 | 3:4:5:7 | 1.852 | C3,F3,A4,D#4 |   |  |   |  |   |   |   |   |
| N    |         |       |              |   |  |   |  |   |   | O |   |
| N    |         |       |              |   |  |   |  |   | O |   |   |
| N    |         |       |              |   |  |   |  |   | O |   |   |
| N    |         |       |              |   |  |   |  |   | O |   |   |
| X    |         |       |              |   |  |   |  |   |   |   |   |
| X    |         |       |              |   |  |   |  |   |   |   |   |
|      |         | -     |              | - |  | - |  | - |   |   | - |

|      |              |       |                |   |   |   |  |   |  |  |   |
|------|--------------|-------|----------------|---|---|---|--|---|--|--|---|
| F3-3 | 5:5:10:12:16 | 1.292 | A2,A2,A3,C3,F3 |   |   |   |  |   |  |  |   |
| X    |              |       |                |   | O |   |  |   |  |  |   |
| N    |              |       |                | O |   |   |  |   |  |  |   |
| N    |              |       |                | O |   | O |  |   |  |  |   |
| O    |              |       |                |   |   |   |  |   |  |  |   |
| N    |              |       |                | O |   |   |  |   |  |  |   |
|      |              | -     |                | - |   | - |  | - |  |  | - |

|      |              |       |                 |   |   |   |   |   |  |  |   |
|------|--------------|-------|-----------------|---|---|---|---|---|--|--|---|
| F3-4 | 5:5:10:14:16 | 1.268 | A2,A2,A3,D#3,F3 |   |   |   |   |   |  |  |   |
| X    |              |       |                 |   | O |   |   |   |  |  |   |
| N    |              |       |                 |   |   |   | O |   |  |  |   |
| N    |              |       |                 |   |   | O |   |   |  |  |   |
| N    |              |       |                 |   |   |   |   |   |  |  |   |
| O    |              |       |                 |   |   |   |   |   |  |  |   |
| N    |              |       |                 | O |   |   |   |   |  |  |   |
|      |              | -     |                 | - |   | - |   | - |  |  | - |

|      |              |       |                 |   |   |   |   |   |  |  |   |
|------|--------------|-------|-----------------|---|---|---|---|---|--|--|---|
| F3-5 | 6:5:10:14:16 | 1.201 | C2,A2,A3,D#3,F3 |   |   |   |   |   |  |  |   |
| X    |              |       |                 |   | O |   |   |   |  |  |   |
| N    |              |       |                 |   |   |   | O |   |  |  |   |
| N    |              |       |                 |   |   | O |   |   |  |  |   |
| N    |              |       |                 |   |   |   |   |   |  |  |   |
| O    |              |       |                 |   |   |   |   |   |  |  |   |
| N    |              |       |                 |   |   |   | O |   |  |  |   |
|      |              | -     |                 | - |   | - |   | - |  |  | - |

| F3-6 | 5:6:8:10 | 1.183 | A3,C3,F3,A4 |   |   |   |   |   |  |
|------|----------|-------|-------------|---|---|---|---|---|--|
| N    |          |       |             |   | O |   |   |   |  |
| N    |          |       |             |   |   | O |   |   |  |
| N    |          |       |             |   | O |   |   |   |  |
| N    |          |       |             |   |   |   | O |   |  |
| X    |          |       |             |   |   |   |   |   |  |
| X    |          |       |             |   |   |   |   |   |  |
|      |          | -     |             | - |   | - |   | - |  |

| F3-7 | 5:7:10:12:16 | 1.177 | A2,D#2,A3,C3,F3 |   |   |   |   |   |  |
|------|--------------|-------|-----------------|---|---|---|---|---|--|
| X    |              |       |                 |   |   |   |   |   |  |
| N    |              |       |                 |   |   | O |   |   |  |
| N    |              |       |                 |   | O |   |   |   |  |
| N    |              |       |                 |   |   |   | O |   |  |
| N    |              |       |                 |   |   | O |   |   |  |
| N    |              |       |                 |   | O |   |   |   |  |
|      |              | -     |                 | - |   | - |   | - |  |

| F3-8 | 5:7:10:12:16 | 1.177 | A2,D#2,A3,C3,F3 |   |  |   |  |   |  |
|------|--------------|-------|-----------------|---|--|---|--|---|--|
| N    | O            |       |                 |   |  |   |  |   |  |
| N    | O            |       |                 |   |  |   |  |   |  |
| N    |              | O     |                 |   |  |   |  |   |  |
| N    | O            |       |                 |   |  |   |  |   |  |
| O    |              |       |                 |   |  |   |  |   |  |
| X    |              |       |                 |   |  |   |  |   |  |
|      |              | -     |                 | - |  | - |  | - |  |

| F3-9 | 6:5:10:16:18 | 1.169 | C2,A2,A3,F3,G3 |   |  |   |   |   |  |
|------|--------------|-------|----------------|---|--|---|---|---|--|
| X    |              |       |                |   |  |   | O |   |  |
| N    |              |       |                |   |  |   |   | O |  |
| N    |              |       |                |   |  | O |   |   |  |
| O    |              |       |                |   |  |   | O |   |  |
| N    |              |       |                |   |  |   |   |   |  |
|      |              | -     |                | - |  | - |   | - |  |

| F3-10 | 6:5:10:16:20 | 1.158 | C2,A2,A3,F3,A4 |   |  |   |   |   |  |
|-------|--------------|-------|----------------|---|--|---|---|---|--|
| X     |              |       |                |   |  |   |   | O |  |
| N     |              |       |                |   |  |   |   | O |  |
| N     |              |       |                |   |  | O |   |   |  |
| O     |              |       |                |   |  |   | O |   |  |
| N     |              |       |                |   |  |   |   |   |  |
|       |              | -     |                | - |  | - |   | - |  |

|       |          |      |             |   |   |   |   |   |  |  |   |
|-------|----------|------|-------------|---|---|---|---|---|--|--|---|
| F3-11 | 5:6:8:12 | 1.15 | A3,C3,F3,C4 |   |   |   |   |   |  |  |   |
| N     |          |      |             |   |   |   | O |   |  |  |   |
| N     |          |      |             |   |   | O |   |   |  |  |   |
| N     |          |      |             |   | O |   |   |   |  |  |   |
| N     |          |      |             |   |   |   | O |   |  |  |   |
| X     |          |      |             |   |   |   |   |   |  |  |   |
| X     |          |      |             |   |   |   |   |   |  |  |   |
|       |          | -    |             | - |   | - |   | - |  |  | - |

|       |              |       |                |   |  |   |   |   |   |  |   |
|-------|--------------|-------|----------------|---|--|---|---|---|---|--|---|
| F3-12 | 6:5:12:16:18 | 1.136 | C2,A2,C3,F3,G3 |   |  |   |   |   |   |  |   |
| X     |              |       |                |   |  |   |   |   |   |  |   |
| N     |              |       |                |   |  |   | O |   |   |  |   |
| N     |              |       |                |   |  |   |   |   | O |  |   |
| N     |              |       |                |   |  |   |   |   | O |  |   |
| O     |              |       |                |   |  |   |   |   |   |  |   |
| N     |              |       |                |   |  |   | O |   |   |  |   |
|       |              | -     |                | - |  | - |   | - |   |  | - |

|       |          |       |              |   |   |   |   |   |  |  |   |
|-------|----------|-------|--------------|---|---|---|---|---|--|--|---|
| F3-13 | 5:7:8:10 | 1.136 | A3,D#3,F3,A4 |   |   |   |   |   |  |  |   |
| N     |          |       |              |   | O |   |   |   |  |  |   |
| N     |          |       |              |   |   | O |   |   |  |  |   |
| N     |          |       |              |   |   |   | O |   |  |  |   |
| N     |          |       |              |   |   |   |   | O |  |  |   |
| X     |          |       |              |   |   |   |   |   |  |  |   |
| X     |          |       |              |   |   |   |   |   |  |  |   |
|       |          | -     |              | - |   | - |   | - |  |  | - |

|       |              |       |                |   |  |   |   |   |   |  |   |
|-------|--------------|-------|----------------|---|--|---|---|---|---|--|---|
| F3-14 | 6:5:12:16:20 | 1.125 | C2,A2,C3,F3,A4 |   |  |   |   |   |   |  |   |
| X     |              |       |                |   |  |   |   |   |   |  |   |
| N     |              |       |                |   |  |   |   |   | O |  |   |
| N     |              |       |                |   |  |   |   |   | O |  |   |
| N     |              |       |                |   |  |   |   |   | O |  |   |
| O     |              |       |                |   |  |   |   |   |   |  |   |
| N     |              |       |                |   |  |   | O |   |   |  |   |
|       |              | -     |                | - |  | - |   | - |   |  | - |

|       |              |       |                 |   |  |   |  |   |  |  |   |
|-------|--------------|-------|-----------------|---|--|---|--|---|--|--|---|
| F3-15 | 6:7:10:12:16 | 1.111 | C2,D#2,A3,C3,F3 |   |  |   |  |   |  |  |   |
| N     | O            |       |                 |   |  |   |  |   |  |  |   |
| N     | O            |       |                 |   |  |   |  |   |  |  |   |
| N     |              | O     |                 |   |  |   |  |   |  |  |   |
| N     | O            |       |                 |   |  |   |  |   |  |  |   |
| N     |              |       | O               |   |  |   |  |   |  |  |   |
| X     |              |       |                 |   |  |   |  |   |  |  |   |
|       |              | -     |                 | - |  | - |  | - |  |  | - |

|       |          |       |              |   |  |  |   |
|-------|----------|-------|--------------|---|--|--|---|
| F3-16 | 5:7:8:12 | 1.102 | A3,D#3,F3,C4 |   |  |  |   |
| N     |          |       |              |   |  |  |   |
| N     |          |       |              |   |  |  |   |
| N     |          |       |              |   |  |  |   |
| N     |          |       |              |   |  |  |   |
| X     |          |       |              |   |  |  |   |
| X     |          |       |              |   |  |  |   |
|       | -        | -     | -            | - |  |  | - |

|       |           |       |             |   |  |  |   |
|-------|-----------|-------|-------------|---|--|--|---|
| F3-17 | 6:5:10:16 | 1.058 | C2,A2,A3,F3 |   |  |  |   |
| X     |           |       |             |   |  |  |   |
| X     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
| O     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
|       | -         | -     | -           | - |  |  | - |

|       |          |       |             |   |  |  |   |
|-------|----------|-------|-------------|---|--|--|---|
| F3-18 | 5:8:9:12 | 1.039 | A3,F3,G3,C4 |   |  |  |   |
| N     |          |       |             |   |  |  |   |
| N     |          |       |             |   |  |  |   |
| N     |          |       |             |   |  |  |   |
| N     |          |       |             |   |  |  |   |
| X     |          |       |             |   |  |  |   |
| X     |          |       |             |   |  |  |   |
|       | -        | -     | -           | - |  |  | - |

|       |           |       |             |   |  |  |   |
|-------|-----------|-------|-------------|---|--|--|---|
| F3-19 | 6:5:12:16 | 1.025 | C2,A2,C3,F3 |   |  |  |   |
| X     |           |       |             |   |  |  |   |
| X     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
| O     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
|       | -         | -     | -           | - |  |  | - |

|       |           |       |             |   |  |  |   |
|-------|-----------|-------|-------------|---|--|--|---|
| F3-20 | 5:8:10:12 | 1.017 | A3,F3,A4,C4 |   |  |  |   |
| N     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
| N     |           |       |             |   |  |  |   |
| X     |           |       |             |   |  |  |   |
| X     |           |       |             |   |  |  |   |
|       | -         | -     | -           | - |  |  | - |

|       |               |       |                |   |   |   |  |  |  |  |  |
|-------|---------------|-------|----------------|---|---|---|--|--|--|--|--|
| F3-21 | 5:10:12:16:20 | 0.992 | A2,A3,C3,F3,A4 |   |   |   |  |  |  |  |  |
| N     |               |       |                | O |   |   |  |  |  |  |  |
| N     |               |       |                |   | O |   |  |  |  |  |  |
| N     |               |       |                | O |   |   |  |  |  |  |  |
| N     |               |       |                |   |   | O |  |  |  |  |  |
| O     |               |       |                |   |   |   |  |  |  |  |  |
| X     |               |       |                |   |   |   |  |  |  |  |  |
|       |               |       |                |   |   |   |  |  |  |  |  |

|       |           |       |              |  |  |  |  |  |   |   |  |
|-------|-----------|-------|--------------|--|--|--|--|--|---|---|--|
| F3-22 | 7:5:12:16 | 0.977 | D#2,A2,C3,F3 |  |  |  |  |  |   |   |  |
| X     |           |       |              |  |  |  |  |  |   |   |  |
| X     |           |       |              |  |  |  |  |  |   |   |  |
| N     |           |       |              |  |  |  |  |  | O |   |  |
| N     |           |       |              |  |  |  |  |  | O |   |  |
| O     |           |       |              |  |  |  |  |  |   |   |  |
| N     |           |       |              |  |  |  |  |  |   | O |  |
|       |           |       |              |  |  |  |  |  |   |   |  |

|       |          |       |             |  |  |  |   |  |   |  |  |
|-------|----------|-------|-------------|--|--|--|---|--|---|--|--|
| F3-23 | 6:8:9:12 | 0.972 | C3,F3,G3,C4 |  |  |  |   |  |   |  |  |
| N     |          |       |             |  |  |  | O |  |   |  |  |
| N     |          |       |             |  |  |  | O |  |   |  |  |
| N     |          |       |             |  |  |  |   |  | O |  |  |
| N     |          |       |             |  |  |  |   |  | O |  |  |
| X     |          |       |             |  |  |  |   |  |   |  |  |
| X     |          |       |             |  |  |  |   |  |   |  |  |
|       |          |       |             |  |  |  |   |  |   |  |  |

|       |               |       |                 |   |   |   |   |  |  |  |  |
|-------|---------------|-------|-----------------|---|---|---|---|--|--|--|--|
| F3-24 | 5:10:14:16:20 | 0.968 | A2,A3,D#3,F3,A4 |   |   |   |   |  |  |  |  |
| N     |               |       |                 | O |   |   |   |  |  |  |  |
| N     |               |       |                 |   | O |   |   |  |  |  |  |
| N     |               |       |                 |   |   |   | O |  |  |  |  |
| N     |               |       |                 |   |   | O |   |  |  |  |  |
| O     |               |       |                 |   |   |   |   |  |  |  |  |
| X     |               |       |                 |   |   |   |   |  |  |  |  |
|       |               |       |                 |   |   |   |   |  |  |  |  |

|       |            |       |             |   |   |   |  |  |  |  |  |
|-------|------------|-------|-------------|---|---|---|--|--|--|--|--|
| F3-25 | 5:10:12:16 | 0.892 | A2,A3,C3,F3 |   |   |   |  |  |  |  |  |
| X     |            |       |             |   |   |   |  |  |  |  |  |
| N     |            |       |             |   | O |   |  |  |  |  |  |
| N     |            |       |             | O |   |   |  |  |  |  |  |
| N     |            |       |             |   |   | O |  |  |  |  |  |
| O     |            |       |             |   |   |   |  |  |  |  |  |
| X     |            |       |             |   |   |   |  |  |  |  |  |
|       |            |       |             |   |   |   |  |  |  |  |  |

|       |            |       |              |   |  |   |
|-------|------------|-------|--------------|---|--|---|
| F3-26 | 5:10:14:16 | 0.868 | A2,A3,D#3,F3 |   |  |   |
| X     |            |       |              |   |  |   |
| N     |            |       |              |   |  |   |
| N     |            |       |              |   |  |   |
| N     |            |       |              |   |  |   |
| O     |            |       |              |   |  |   |
| X     |            |       |              |   |  |   |
|       | -          | -     | -            | - |  | - |

|       |            |       |             |   |  |   |
|-------|------------|-------|-------------|---|--|---|
| F3-27 | 5:10:16:18 | 0.836 | A2,A3,F3,G3 |   |  |   |
| X     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| O     |            |       |             |   |  |   |
| X     |            |       |             |   |  |   |
|       | -          | -     | -           | - |  | - |

|       |            |       |             |   |  |   |
|-------|------------|-------|-------------|---|--|---|
| F3-28 | 5:10:16:20 | 0.825 | A2,A3,F3,A4 |   |  |   |
| X     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| O     |            |       |             |   |  |   |
| X     |            |       |             |   |  |   |
|       | -          | -     | -           | - |  | - |

|       |            |       |             |   |  |   |
|-------|------------|-------|-------------|---|--|---|
| F3-29 | 5:12:16:18 | 0.803 | A2,C3,F3,G3 |   |  |   |
| X     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| N     |            |       |             |   |  |   |
| O     |            |       |             |   |  |   |
| X     |            |       |             |   |  |   |
|       | -          | -     | -           | - |  | - |

|       |            |       |              |   |  |   |
|-------|------------|-------|--------------|---|--|---|
| F3-30 | 5:12:16:20 | 0.792 | A2,C3,F3,A4, |   |  |   |
| X     |            |       |              |   |  |   |
| N     |            |       |              |   |  |   |
| N     |            |       |              |   |  |   |
| N     |            |       |              |   |  |   |
| O     |            |       |              |   |  |   |
| X     |            |       |              |   |  |   |
|       | -          | -     | -            | - |  | - |

|       |            |       |              |   |  |   |  |   |   |   |   |
|-------|------------|-------|--------------|---|--|---|--|---|---|---|---|
| F3-31 | 7:10:12:16 | 0.777 | D#2,A3,C3,F3 |   |  |   |  |   |   |   |   |
| X     |            |       |              |   |  |   |  |   |   |   |   |
| X     |            |       |              |   |  |   |  |   |   |   |   |
| N     |            |       |              |   |  |   |  |   | O |   |   |
| N     |            |       |              |   |  |   |  |   | O |   |   |
| N     |            |       |              |   |  |   |  |   |   | O |   |
| N     |            |       |              |   |  |   |  |   |   | O |   |
|       |            | -     |              | - |  | - |  | - |   |   | - |

|       |            |       |              |   |   |   |  |   |  |  |   |
|-------|------------|-------|--------------|---|---|---|--|---|--|--|---|
| F3-32 | 7:10:12:16 | 0.777 | D#2,A3,C3,F3 |   |   |   |  |   |  |  |   |
| X     |            |       |              |   |   |   |  |   |  |  |   |
| N     |            |       |              |   | O |   |  |   |  |  |   |
| N     |            |       |              | O |   |   |  |   |  |  |   |
| N     |            |       |              |   |   | O |  |   |  |  |   |
| N     |            |       |              |   | O |   |  |   |  |  |   |
| X     |            |       |              |   |   |   |  |   |  |  |   |
|       |            | -     |              | - |   | - |  | - |  |  | - |

|       |            |       |              |   |  |   |  |   |  |  |   |
|-------|------------|-------|--------------|---|--|---|--|---|--|--|---|
| F3-33 | 7:10:12:16 | 0.777 | D#2,A3,C3,F3 |   |  |   |  |   |  |  |   |
| N     | O          |       |              |   |  |   |  |   |  |  |   |
| N     | O          |       |              |   |  |   |  |   |  |  |   |
| N     |            | O     |              |   |  |   |  |   |  |  |   |
| N     | O          |       |              |   |  |   |  |   |  |  |   |
| X     |            |       |              |   |  |   |  |   |  |  |   |
| X     |            |       |              |   |  |   |  |   |  |  |   |
|       |            | -     |              | - |  | - |  | - |  |  | - |

|       |            |       |               |   |   |   |   |   |  |  |   |
|-------|------------|-------|---------------|---|---|---|---|---|--|--|---|
| F3-34 | 7:10:14:16 | 0.754 | D#2,A3,D#3,F3 |   |   |   |   |   |  |  |   |
| X     |            |       |               |   |   |   |   |   |  |  |   |
| N     |            |       |               |   | O |   |   |   |  |  |   |
| N     |            |       |               |   |   |   | O |   |  |  |   |
| N     |            |       |               |   |   | O |   |   |  |  |   |
| N     |            |       |               |   | O |   |   |   |  |  |   |
| X     |            |       |               |   |   |   |   |   |  |  |   |
|       |            | -     |               | - |   | - |   | - |  |  | - |

| G3-1 | 3:3:5:5:8 | 2.383 | D2,D2,B3,B3,G3 |   |  |   |
|------|-----------|-------|----------------|---|--|---|
| N    |           | O     |                |   |  |   |
| O    |           |       |                |   |  |   |
| N    |           | O     |                |   |  |   |
| O    |           |       |                |   |  |   |
| N    |           |       | O              |   |  |   |
| X    |           |       |                |   |  |   |
|      | -         | -     | -              | - |  | - |

| G3-2 | 3:3:5:6:8 | 2.317 | D2,D2,B3,D3,G3 |   |  |   |
|------|-----------|-------|----------------|---|--|---|
| N    |           | O     |                |   |  |   |
| N    |           | O     |                |   |  |   |
| N    |           | O     |                |   |  |   |
| O    |           |       |                |   |  |   |
| N    |           |       | O              |   |  |   |
| X    |           |       |                |   |  |   |
|      | -         | -     | -              | - |  | - |

| G3-3 | 3:3:6:8 | 1.917 | D2,D2,D3,G3 |   |  |   |
|------|---------|-------|-------------|---|--|---|
| X    |         |       |             |   |  |   |
| N    |         |       |             | O |  |   |
| N    |         |       | O           |   |  |   |
| O    |         |       |             |   |  |   |
| N    |         | O     |             |   |  |   |
| X    |         |       |             |   |  |   |
|      | -       | -     | -           | - |  | - |

| G3-4 | 3:5:5:8 | 1.717 | D2,B3,B3,G3 |   |  |   |
|------|---------|-------|-------------|---|--|---|
| N    |         | O     |             |   |  |   |
| O    |         |       |             |   |  |   |
| N    |         | O     |             |   |  |   |
| O    |         |       |             |   |  |   |
| X    |         |       |             |   |  |   |
| X    |         |       |             |   |  |   |
|      | -       | -     | -           | - |  | - |

| G3-5 | 3:5:6:8 | 1.65 | D2,B3,D3,G3 |   |  |   |
|------|---------|------|-------------|---|--|---|
| N    |         | O    |             |   |  |   |
| N    |         | O    |             |   |  |   |
| N    |         | O    |             |   |  |   |
| O    |         |      |             |   |  |   |
| X    |         |      |             |   |  |   |
| X    |         |      |             |   |  |   |
|      | -       | -    | -           | - |  | - |



|      |          |       |             |   |  |   |  |   |   |  |   |
|------|----------|-------|-------------|---|--|---|--|---|---|--|---|
| G3-6 | 3:8:5:12 | 1.483 | D2,G3,B3,D4 |   |  |   |  |   |   |  |   |
| N    |          |       |             |   |  |   |  |   | O |  |   |
| O    |          |       |             |   |  |   |  |   |   |  |   |
| N    |          |       |             |   |  |   |  |   |   |  | O |
| O    |          |       |             |   |  |   |  |   |   |  |   |
| X    |          |       |             |   |  |   |  |   |   |  |   |
| X    |          |       |             |   |  |   |  |   |   |  |   |
|      |          | -     |             | - |  | - |  | - |   |  | - |

|      |          |      |             |   |  |   |   |   |  |  |   |
|------|----------|------|-------------|---|--|---|---|---|--|--|---|
| G3-7 | 3:6:8:10 | 1.45 | D2,D3,G3,B4 |   |  |   |   |   |  |  |   |
| N    |          |      |             |   |  | O |   |   |  |  |   |
| N    |          |      |             |   |  |   | O |   |  |  |   |
| N    |          |      |             |   |  | O |   |   |  |  |   |
| O    |          |      |             |   |  |   |   |   |  |  |   |
| X    |          |      |             |   |  |   |   |   |  |  |   |
| X    |          |      |             |   |  |   |   |   |  |  |   |
|      |          | -    |             | - |  | - |   | - |  |  | - |

|      |          |       |             |   |  |   |   |   |  |  |   |
|------|----------|-------|-------------|---|--|---|---|---|--|--|---|
| G3-8 | 3:6:8:12 | 1.417 | D2,D3,G3,D4 |   |  |   |   |   |  |  |   |
| N    |          |       |             |   |  |   |   | O |  |  |   |
| N    |          |       |             |   |  |   | O |   |  |  |   |
| N    |          |       |             |   |  | O |   |   |  |  |   |
| O    |          |       |             |   |  |   |   |   |  |  |   |
| X    |          |       |             |   |  |   |   |   |  |  |   |
| X    |          |       |             |   |  |   |   |   |  |  |   |
|      |          | -     |             | - |  | - |   | - |  |  | - |

|      |             |       |                |   |   |   |   |   |  |  |   |
|------|-------------|-------|----------------|---|---|---|---|---|--|--|---|
| G3-9 | 5:6:6:12:16 | 1.358 | B2,D2,D2,D3,G3 |   |   |   |   |   |  |  |   |
| X    |             |       |                |   |   |   | O |   |  |  |   |
| N    |             |       |                |   |   |   |   | O |  |  |   |
| N    |             |       |                |   |   | O |   |   |  |  |   |
| O    |             |       |                |   |   |   |   |   |  |  |   |
| N    |             |       |                | O |   |   |   |   |  |  |   |
| N    |             |       |                |   | O |   |   |   |  |  |   |
|      |             | -     |                | - |   | - |   | - |  |  | - |

|       |           |       |             |   |  |   |  |   |  |   |   |
|-------|-----------|-------|-------------|---|--|---|--|---|--|---|---|
| G3-10 | 3:8:10:12 | 1.283 | D2,G3,B4,D4 |   |  |   |  |   |  |   |   |
| N     |           |       |             |   |  |   |  | O |  |   |   |
| N     |           |       |             |   |  |   |  |   |  | O |   |
| N     |           |       |             |   |  |   |  |   |  | O |   |
| O     |           |       |             |   |  |   |  |   |  |   |   |
| X     |           |       |             |   |  |   |  |   |  |   |   |
| X     |           |       |             |   |  |   |  |   |  |   |   |
|       |           | -     |             | - |  | - |  | - |  |   | - |

| G3-11 | 5:6:10:10:16 | 1.258 | B2,D2,B3,B3,G3 |  |  |
|-------|--------------|-------|----------------|--|--|
| N     |              |       |                |  |  |
| O     |              |       |                |  |  |
| N     |              |       |                |  |  |
| O     |              |       |                |  |  |
| N     |              |       |                |  |  |
| X     |              |       |                |  |  |
|       |              |       |                |  |  |

| G3-12 | 5:6:10:12:16 | 1.225 | B2,D2,B3,D3,G3 |  |  |
|-------|--------------|-------|----------------|--|--|
| N     |              |       |                |  |  |
| N     |              |       |                |  |  |
| N     |              |       |                |  |  |
| O     |              |       |                |  |  |
| N     |              |       |                |  |  |
| X     |              |       |                |  |  |
|       |              |       |                |  |  |

| G3-13 | 5:8:5:12 | 1.217 | B3,G3,B3,D4 |  |  |
|-------|----------|-------|-------------|--|--|
| N     |          |       |             |  |  |
| O     |          |       |             |  |  |
| N     |          |       |             |  |  |
| N     |          |       |             |  |  |
| X     |          |       |             |  |  |
| X     |          |       |             |  |  |
|       |          |       |             |  |  |

| G3-14 | 5:6:8:10 | 1.183 | B3,D3,G3,B4 |  |  |
|-------|----------|-------|-------------|--|--|
| N     |          |       |             |  |  |
| N     |          |       |             |  |  |
| N     |          |       |             |  |  |
| N     |          |       |             |  |  |
| X     |          |       |             |  |  |
| X     |          |       |             |  |  |
|       |          |       |             |  |  |

| G3-15 | 5:6:8:12 | 1.15 | B3,D3,G3,D4 |  |  |
|-------|----------|------|-------------|--|--|
| N     |          |      |             |  |  |
| N     |          |      |             |  |  |
| N     |          |      |             |  |  |
| N     |          |      |             |  |  |
| X     |          |      |             |  |  |
| X     |          |      |             |  |  |
|       |          |      |             |  |  |

| G3-16 | 5:8:10:12 | 1.017 | B3,G3,B4,D4 |   |   |   |
|-------|-----------|-------|-------------|---|---|---|
| N     |           |       |             |   | O |   |
| N     |           |       |             |   |   | O |
| N     |           |       |             |   |   | O |
| N     |           |       |             |   | O |   |
| X     |           |       |             |   |   |   |
| X     |           |       |             |   |   |   |
|       |           | -     | -           | - | - | - |

| G#3-1 | 3:4:6 | 1.5 | D#3,G#3,D#4 |   |  |   |   |   |   |   |
|-------|-------|-----|-------------|---|--|---|---|---|---|---|
| N     |       |     |             |   |  |   |   |   | O |   |
| N     |       |     |             |   |  |   |   | O |   |   |
| N     |       |     |             |   |  |   | O |   |   |   |
| X     |       |     |             |   |  |   |   |   |   |   |
| X     |       |     |             |   |  |   |   |   |   |   |
| X     |       |     |             |   |  |   |   |   |   |   |
|       |       | -   |             | - |  | - |   | - |   | - |

| G#3-2 | 6:8:9 | 0.806 | D#3,G#3,A#4 |   |   |   |   |   |  |   |
|-------|-------|-------|-------------|---|---|---|---|---|--|---|
| N     |       |       |             |   | O |   |   |   |  |   |
| N     |       |       |             |   |   |   |   | O |  |   |
| N     |       |       |             |   |   |   | O |   |  |   |
| X     |       |       |             |   |   |   |   |   |  |   |
| X     |       |       |             |   |   |   |   |   |  |   |
| X     |       |       |             |   |   |   |   |   |  |   |
|       |       | -     |             | - |   | - |   | - |  | - |

|      |        |       |           |   |  |  |  |   |  |  |  |   |
|------|--------|-------|-----------|---|--|--|--|---|--|--|--|---|
| A3-1 | 4:5:8  | 1.15  | A3,C#3,A4 |   |  |  |  |   |  |  |  |   |
| N    |        |       | O         |   |  |  |  |   |  |  |  |   |
| N    | O      |       |           |   |  |  |  |   |  |  |  |   |
| N    | O      |       |           |   |  |  |  |   |  |  |  |   |
| X    |        |       |           |   |  |  |  |   |  |  |  |   |
| X    |        |       |           |   |  |  |  |   |  |  |  |   |
| X    |        |       |           |   |  |  |  |   |  |  |  |   |
|      |        | -     | -         | - |  |  |  | - |  |  |  | - |
| A3-2 | 8:9:12 | 0.639 | A3,B3,E3  |   |  |  |  |   |  |  |  |   |
| O    |        |       |           |   |  |  |  |   |  |  |  |   |
| O    |        |       |           |   |  |  |  |   |  |  |  |   |
| N    | O      |       |           |   |  |  |  |   |  |  |  |   |
| X    |        |       |           |   |  |  |  |   |  |  |  |   |
| X    |        |       |           |   |  |  |  |   |  |  |  |   |
| X    |        |       |           |   |  |  |  |   |  |  |  |   |
|      |        | -     | -         | - |  |  |  | - |  |  |  | - |

| B3-1 | 1:1:2 | 5.0 | B3,B3,B4 |   |  |   |   |   |  |
|------|-------|-----|----------|---|--|---|---|---|--|
| N    |       |     |          |   |  |   | O |   |  |
| O    |       |     |          |   |  |   |   |   |  |
| N    |       |     | O        |   |  |   |   |   |  |
| X    |       |     |          |   |  |   |   |   |  |
| X    |       |     |          |   |  |   |   |   |  |
| X    |       |     |          |   |  |   |   |   |  |
|      |       | -   |          | - |  | - |   | - |  |

| B3-2 | 2:2:3 | 2.667 | B3,B3,F#3 |   |  |   |  |   |  |
|------|-------|-------|-----------|---|--|---|--|---|--|
| N    | O     |       |           |   |  |   |  |   |  |
| O    |       |       |           |   |  |   |  |   |  |
| N    |       |       | O         |   |  |   |  |   |  |
| X    |       |       |           |   |  |   |  |   |  |
| X    |       |       |           |   |  |   |  |   |  |
| X    |       |       |           |   |  |   |  |   |  |
|      |       | -     |           | - |  | - |  | - |  |

| B3-3 | 3:2:5 | 2.067 | F#3,B3,D#4 |   |  |   |  |   |  |
|------|-------|-------|------------|---|--|---|--|---|--|
| N    |       |       |            |   |  |   |  | O |  |
| O    |       |       |            |   |  |   |  | O |  |
| N    |       |       |            |   |  |   |  |   |  |
| X    |       |       |            |   |  |   |  |   |  |
| X    |       |       |            |   |  |   |  |   |  |
| X    |       |       |            |   |  |   |  |   |  |
|      |       | -     |            | - |  | - |  | - |  |

| B3-4 | 5:4:8 | 1.15 | D#3,B3,B4 |   |  |   |  |   |  |
|------|-------|------|-----------|---|--|---|--|---|--|
| N    |       |      |           |   |  | O |  |   |  |
| O    |       |      |           |   |  |   |  |   |  |
| N    |       |      |           |   |  | O |  |   |  |
| X    |       |      |           |   |  |   |  |   |  |
| X    |       |      |           |   |  |   |  |   |  |
| X    |       |      |           |   |  |   |  |   |  |
|      |       | -    |           | - |  | - |  | - |  |

| B3-5 | 5:4:10 | 1.1 | D#3,B3,D#4 |   |  |   |  |   |  |
|------|--------|-----|------------|---|--|---|--|---|--|
| N    |        |     |            |   |  |   |  | O |  |
| O    |        |     |            |   |  |   |  |   |  |
| N    |        |     |            |   |  | O |  |   |  |
| X    |        |     |            |   |  |   |  |   |  |
| X    |        |     |            |   |  |   |  |   |  |
| X    |        |     |            |   |  |   |  |   |  |
|      |        | -   |            | - |  | - |  | - |  |

[illegible][illegible][illegible]

| C4-4 | 5:7:6:10:16 | 1.344 | E2,A#3,G2,E3,C4 |  |  |  |  |  |
|------|-------------|-------|-----------------|--|--|--|--|--|
| N    |             |       |                 |  |  |  |  |  |
| N    |             |       |                 |  |  |  |  |  |
| O    |             |       |                 |  |  |  |  |  |
| N    |             |       |                 |  |  |  |  |  |
| N    |             |       |                 |  |  |  |  |  |
| X    |             |       |                 |  |  |  |  |  |

|      |  |                     |  |           |  |                         |  |  |  |  |  |
|------|--|---------------------|--|-----------|--|-------------------------|--|--|--|--|--|
| C4-5 |  | 5 : 7 : 6 : 12 : 16 |  | 1 . 3 1 1 |  | E2 , A#3 , G2 , G3 , C4 |  |  |  |  |  |
| N    |  |                     |  |           |  | O                       |  |  |  |  |  |
| N    |  |                     |  |           |  | O                       |  |  |  |  |  |
| O    |  |                     |  |           |  |                         |  |  |  |  |  |
| N    |  |                     |  |           |  | O                       |  |  |  |  |  |
| N    |  |                     |  |           |  |                         |  |  |  |  |  |
| X    |  |                     |  |           |  | O                       |  |  |  |  |  |

|      |              |       |                 |   |   |   |   |   |   |   |   |
|------|--------------|-------|-----------------|---|---|---|---|---|---|---|---|
| C4-6 | 6:7:10:12:16 | 1.111 | G2,A#3,E3,G3,C4 |   |   |   |   |   |   |   |   |
| N    |              |       |                 |   |   |   | O |   |   |   |   |
| N    |              |       |                 |   |   |   | O |   |   |   |   |
| N    |              |       |                 |   |   |   |   | O |   |   |   |
| N    |              |       |                 |   |   |   | O |   |   |   |   |
| N    |              |       |                 |   |   |   |   |   | O |   |   |
| X    |              |       |                 |   |   |   |   |   |   |   |   |
|      |              | -     | -               | - | - | - | - | - | - | - | - |

|      |              |       |                  |   |   |   |   |   |   |   |   |
|------|--------------|-------|------------------|---|---|---|---|---|---|---|---|
| C4-7 | 6:7:10:14:16 | 1.087 | G2,A#3,E3,A#4,C4 |   |   |   |   |   |   |   |   |
| N    |              |       |                  |   |   |   | O |   |   |   |   |
| N    |              |       |                  |   |   |   |   |   |   | O |   |
| N    |              |       |                  |   |   |   |   | O |   |   |   |
| N    |              |       |                  |   |   |   | O |   |   |   |   |
| N    |              |       |                  |   |   |   |   |   | O |   |   |
| X    |              |       |                  |   |   |   |   |   |   |   |   |
|      |              | -     | -                | - | - | - | - | - | - | - | - |

|      |           |       |              |   |   |   |   |   |   |   |   |
|------|-----------|-------|--------------|---|---|---|---|---|---|---|---|
| C4-8 | 7:6:10:16 | 0.944 | A#3,G2,E3,C4 |   |   |   |   |   |   |   |   |
| N    |           |       |              |   |   |   | O |   |   |   |   |
| N    |           |       |              |   | O |   |   |   |   |   |   |
| O    |           |       |              |   |   |   |   |   |   |   |   |
| N    |           |       |              |   |   |   | O |   |   |   |   |
| X    |           |       |              |   |   |   |   |   |   |   |   |
| X    |           |       |              |   |   |   |   |   |   |   |   |
|      |           | -     | -            | - | - | - | - | - | - | - | - |

|      |           |       |              |   |   |   |   |   |   |   |   |
|------|-----------|-------|--------------|---|---|---|---|---|---|---|---|
| C4-9 | 7:6:12:16 | 0.911 | A#3,G2,G3,C4 |   |   |   |   |   |   |   |   |
| N    |           |       |              |   |   |   | O |   |   |   |   |
| N    |           |       |              |   |   |   | O |   |   |   |   |
| O    |           |       |              |   |   |   |   |   |   |   |   |
| N    |           |       |              |   |   |   | O |   |   |   |   |
| X    |           |       |              |   |   |   |   |   |   |   |   |
| X    |           |       |              |   |   |   |   |   |   |   |   |
|      |           | -     | -            | - | - | - | - | - | - | - | - |

|       |           |       |               |   |   |   |   |   |   |   |   |
|-------|-----------|-------|---------------|---|---|---|---|---|---|---|---|
| C4-10 | 7:6:14:16 | 0.887 | A#3,G2,A#4,C4 |   |   |   |   |   |   |   |   |
| N     |           |       |               |   |   |   | O |   |   |   |   |
| N     |           |       |               |   |   |   |   |   |   | O |   |
| O     |           |       |               |   |   |   |   |   |   |   |   |
| N     |           |       |               |   |   |   | O |   |   |   |   |
| X     |           |       |               |   |   |   |   |   |   |   |   |
| X     |           |       |               |   |   |   |   |   |   |   |   |
|       |           | -     | -             | - | - | - | - | - | - | - | - |



|       |            |       |              |   |  |   |   |   |  |  |   |
|-------|------------|-------|--------------|---|--|---|---|---|--|--|---|
| C4-11 | 7:10:12:16 | 0.777 | A#3,E3,G3,C4 |   |  |   |   |   |  |  |   |
| N     |            |       |              |   |  |   | O |   |  |  |   |
| N     |            |       |              |   |  |   | O |   |  |  |   |
| N     |            |       |              |   |  |   |   | O |  |  |   |
| N     |            |       |              |   |  |   | O |   |  |  |   |
| X     |            |       |              |   |  |   |   |   |  |  |   |
| X     |            |       |              |   |  |   |   |   |  |  |   |
|       |            | -     |              | - |  | - |   | - |  |  | - |

|       |            |       |               |   |  |   |   |   |   |  |   |
|-------|------------|-------|---------------|---|--|---|---|---|---|--|---|
| C4-12 | 7:10:14:16 | 0.754 | A#3,E3,A#4,C4 |   |  |   |   |   |   |  |   |
| N     |            |       |               |   |  |   | O |   |   |  |   |
| N     |            |       |               |   |  |   |   |   | O |  |   |
| N     |            |       |               |   |  |   |   | O |   |  |   |
| N     |            |       |               |   |  |   | O |   |   |  |   |
| X     |            |       |               |   |  |   |   |   |   |  |   |
| X     |            |       |               |   |  |   |   |   |   |  |   |
|       |            | -     |               | - |  | - |   | - |   |  | - |

# Chapter Five

## Strongly Rooted Scales

Look at the this scale on G (6/5)...

$1/1$ ,  $10/9$ ,  $5/4$ ,  $4/3$ ,  $3/2$ ,  $5/3$ ,  $15/8$ ,  $2/1$ .

Multiply each ratio by 72 to get...

72:80:90:96:108:120:135:144

These numbers above separated by colons make the IRS (Integer Representation of a Scale) of this scale. Big numbers and no P2s, no 1, 2, 4, 8 or 16. Sure the first note (72) does sound somewhat rooted but not as obviously rooted as a 1 or 2 or 4 or 8 or 16 would be. Cutting out  $10/9$  and  $15/8$  and multiplying the ratios by 12 we get...

12:15:16:18:20:24

This scale contains a P2 (16) so the 16 is the root note of the scale even though it is not the lowest note. As I said before if the IRS of a scale contains a 1, 2, 4, 8 or 16 then the lowest of these that occurs is the root or tonic of the scale. I think that higher powers of 2 like 32, 64, 128 etc. don't count as roots or tonics.

Because the notes (or corresponding chords) are played in sequence and not simultaneously there is no need to consider the IRS of a scale (except to see if it contains a P2, if it does it is strongly rooted). I suspect that a *Sum of Parts* approach would be more appropriate for evaluating the strengths of scales. So look at each pair of notes in the scale (e.g. pair 12 and 15 in the scale above which simplifies to 4:5), simplify them if possible, and then add their strength values from the  $2/n + 2/d$  formula for each pair. This should give an idea of the strength of the scale. A scale with eight notes ( $1/1$  and  $2/1$  and six other notes in between)

contains 28 pairs of notes.

As long as each note pairs nicely with each other note (see list of good melodic intervals on pages 18 & 19 within 8.474 cents accuracy, and the scale contains a power of 2 (1, 2, 4, 8 or 16) the scale should be strongly rooted and acceptable.

The first scale on A is E, A, C#, E. The IRS of the scale is 3:4:5:6 and the A (or 4) is clearly the root note. Try playing these notes on any regular guitar or keyboard. The second note is clearly the root note even though it is not the lowest note.

The scales listed below can also be treated as chord progressions or chord groups. If the root notes of strongly rooted chords in a progression or chord group all correspond to any of the scales listed below the progression should be acceptable. The notes or chords can be played in any order but I prefer to “land” on the root note or chord. In other words I finish every musical phrase with the root note or chord of the scale/chord group I’m using.

Note that it is possible that one or more notes in one chord may not pair nicely melodically with one or more notes in another chord in the group. This may not be hugely important but a much stricter approach is to ensure that *every* note in any given chord pairs nicely melodically with *every* note in every other chord (i.e. any pair of notes should be within 8.474 cents of any just melodic interval  $n/d$  where  $2/n + 2/d$  is equal to or greater than 0.2).

This is where the lower strength (strength <0.75) chords can shine. Why use low strength chords when much stronger chords are available? Because if you want to be very strict with your chord progressions sometimes strong chords are unavailable and a lower strength chord has to be used instead.

# Strongly Rooted Scales or Chord Groups

Letters in [square brackets] indicate the root note or chord.

## E

B, [E], G#, B 3:4:5:6  
 [E], G#, B, E 4:5:6:8  
 G#, B, [E], F#, G# 5:6:8:9:10  
 B, [E], F#, G#, B 6:8:9:10:12  
 [E], F#, G#, B, D#, E 8:9:10:12:15:16  
 F#, G#, B, D#, [E], F# 9:10:12:15:16:18  
 B, D#, [E], F#, G#, B 12:15:16:18:20:24

## F

C, [F], A, C 3:4:5:6  
 [F], A, C, D#, F 4:5:6:7:8  
 A, C, D#, [F], G, A 5:6:7:8:9:10  
 C, D#, [F], G, A, C 6:7:8:9:10:12  
 D#, [F], G, A, C, D# 7:8:9:10:12:14  
 [F], G, A, C, D#, E, F 8:9:10:12:14:15:16  
 G, A, C, D#, E, [F], G 9:10:12:14:15:16:18  
 A, C, D#, E, [F], G, A 10:12:14:15:16:18:20  
 C, D#, E, [F], G, A, A#, C 12:14:15:16:18:20:21:24  
 D#, E, [F], G, A, A#, C, D 14:15:16:18:20:21:24:27  
 D#, E, [F], G, A, A#, C, D# 14:15:16:18:20:21:24:28  
 D#, E, [F], G, A, A#, C#, D 14:15:16:18:20:21:25:27  
 D#, E, [F], G, A, A#, C#, D# 14:15:16:18:20:21:25:28  
 E, [F], G, A, A#, C, D# 15:16:18:20:21:24:28  
 [F], G, A, A#, C, 16:18:20:21:24

## F#

A#, [F#], A# 5:8:10

## G

D, [G], B, D 3:4:5:6  
 [G], B, D, G 4:5:6:8  
 B, D, [G], B 5:6:8:10  
 [G], B, D, F#, G 8:10:12:15:16  
 B, D, F#, [G], B 10:12:15:16:20  
 D, F#, [G], B, D 12:15:16:20:24

## G#

D#, [G#], A#, D# 6:8:9:12  
 [G#], A#, D#, G# 8:9:12:16  
 D#, [G#], A, A#, D# 12:16:17:18:24

## A

E, [A], C#, E 3:4:5:6  
 [A], C#, E, A 4:5:6:8  
 C#, E, [A], B, C# 5:6:8:9:10  
 E, [A], B, C#, E 6:8:9:10:12  
 [A], B, C#, E, G#, A 8:9:10:12:15:16  
 B, C#, E, G#, [A], B 9:10:12:15:16:18  
 C#, E, G#, [A], B, C# 10:12:15:16:18:20  
 E, G#, [A], B, C#, E 12:15:16:18:20:24  
 G#, [A], B, C#, E, G# 15:16:18:20:24:30

## B

F#, [B], D#, F# 3:4:5:6  
 [B], D#, F#, B 4:5:6:8  
 D#, F#, [B], D# 5:6:8:10  
 [B], D#, F#, A#, B 8:10:12:15:16  
 F#, A#, [B], D#, F# 12:15:16:20:24  
 A#, [B], D#, F#, A# 15:16:20:24:30

## C

G, [C], E, G 3:4:5:6  
 [C], E, G, A#, C 4:5:6:7:8  
 E, G, A#, [C], E 5:6:7:8:9:10  
 G, A#, [C], D, E, G 6:7:8:9:10:12  
 A#, [C], D, E, G, A# 7:8:9:10:12:14  
 [C], D, E, G, A#, B, C 8:9:10:12:14:15:16  
 D, E, G, A#, B, [C], D 9:10:12:14:15:16:18  
 G, A#, B, [C], D, E, G 12:14:15:16:18:20:24  
 A#, B, [C], D, E, G, A# 14:15:16:18:20:24:28  
 A#, B, [C], D, E, G#, A# 14:15:16:18:20:25:28  
 B, [C], D, E, G, A# 15:16:18:20:24:28  
 B, [C], D, E, G#, A# 15:16:18:20:25:28  
 [C], D, E, G# 16:18:20:25

## C#

G#, [C#], D#, G# 6:8:9:12  
 [C#], D#, G#, C# 8:9:12:16

## D

[D], F, F#, A# 16:19:20:25

## D#

A#, [D#], E, A# 12:16:17:24  
 A#, [D#], A# 3:4:6

# Chapter Six

## 6:8:9 Scales

The 31 scales in this chapter are not strongly rooted. No 1, 2, 4, 8 or 16 occurs in the IRS of any of the scales here. I'm including them because I want more seven notes per octave scales. The lowest note in each scale is not necessarily the root note or tonic. I suggest playing the eight notes listed in each scale below back and forth and listen for notes that could possibly be used as a root or tonic (these notes will sound somewhat resolved but not as resolved as a P2 would). There may be more than one note that could function as a root or tonic in a scale.

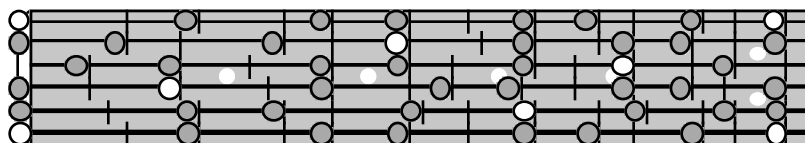
In each scale listed, every note pairs nicely with every other note melodically. That is: each pair of notes is within 8.474 cents of one of the good melodic intervals listed on pages 18 and 19. These scales can also be viewed as chord groups.

Each scale below has a  $1/1$ ,  $4/3$ ,  $3/2$  and a  $2/1$  with four extra notes added in between. If you multiply  $1/1$ ,  $4/3$  and  $3/2$  by 6 you get 6:8:9. I don't like having three or more notes in a scale bunched up close together. The only scale listed here that has this property is the last one: The Crow Scale on 9. I include this scale because I want to have at least one scale where the lowest note is on C (or  $8/5$ ).

There are twelve scales beginning on E, three on G, three on G#, twelve on B and one on C. Again, these lowest notes are not necessarily the root notes or tonics of the scales. So the white discs represent the lowest notes in the scales, *not* the tonics.

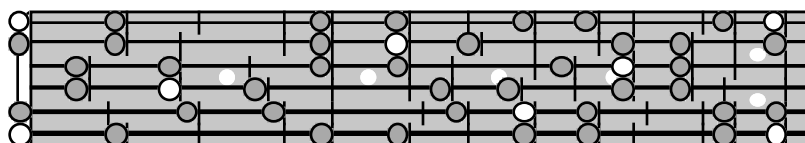
### Melodic Major 1

|     |     |     |     |     |     |      |      |
|-----|-----|-----|-----|-----|-----|------|------|
| 1   | 3   | 5   | 6   | 8   | 9   | 11   | 13   |
| 0   | 204 | 385 | 498 | 702 | 815 | 1019 | 1200 |
| 1/1 | 9/8 | 5/4 | 4/3 | 3/2 | 8/5 | 9/5  | 2/1  |
| E   | F#  | G#  | A   | B   | C   | D    | E    |



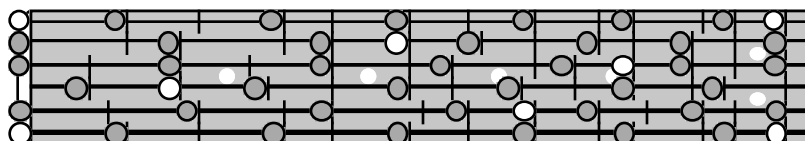
### Arabian 1

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 1   | 2     | 5   | 6   | 8   | 9   | 12   | 13   |
| 0   | 113   | 385 | 498 | 702 | 815 | 1087 | 1200 |
| 1/1 | 16/15 | 5/4 | 4/3 | 3/2 | 8/5 | 15/8 | 2/1  |
| E   | F     | G#  | A   | B   | C   | D#   | E    |



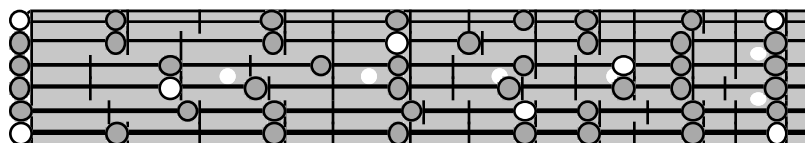
### Neapolitan Major 1

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 1   | 2     | 4   | 6   | 8   | 10  | 12   | 13   |
| 0   | 113   | 317 | 498 | 702 | 883 | 1087 | 1200 |
| 1/1 | 16/15 | 6/5 | 4/3 | 3/2 | 5/3 | 15/8 | 2/1  |
| E   | F     | G   | A   | B   | C#  | D#   | E    |



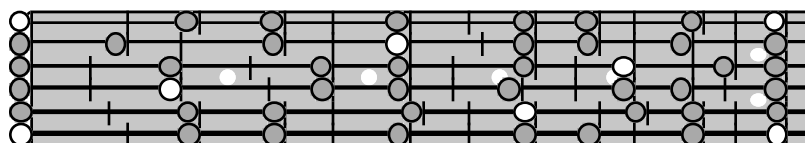
### Phrygian 1

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 1   | 2     | 4   | 6   | 8   | 9   | 11   | 13   |
| 0   | 113   | 317 | 498 | 702 | 815 | 1019 | 1200 |
| 1/1 | 16/15 | 6/5 | 4/3 | 3/2 | 8/5 | 9/5  | 2/1  |
| E   | F     | G   | A   | B   | C   | D    | E    |



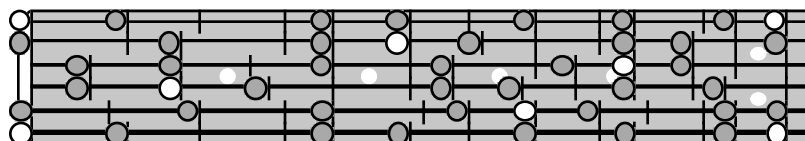
### Natural Minor 1

|     |     |     |     |     |     |      |      |
|-----|-----|-----|-----|-----|-----|------|------|
| 1   | 3   | 4   | 6   | 8   | 9   | 11   | 13   |
| 0   | 204 | 317 | 498 | 702 | 815 | 1019 | 1200 |
| 1/1 | 9/8 | 6/5 | 4/3 | 3/2 | 8/5 | 9/5  | 2/1  |
| E   | F#  | G   | A   | B   | C   | D    | E    |



### Gondolin 1

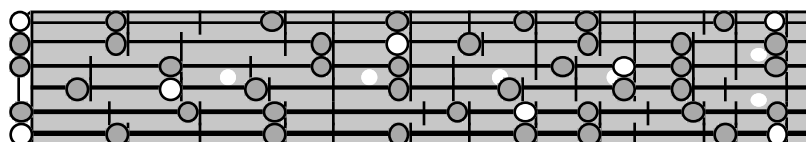
|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 1   | 2     | 5   | 6   | 8   | 10  | 12   | 13   |
| 0   | 113   | 385 | 498 | 702 | 883 | 1087 | 1200 |
| 1/1 | 16/15 | 5/4 | 4/3 | 3/2 | 5/3 | 15/8 | 2/1  |
| E   | F     | G#  | A   | B   | C#  | D#   | E    |





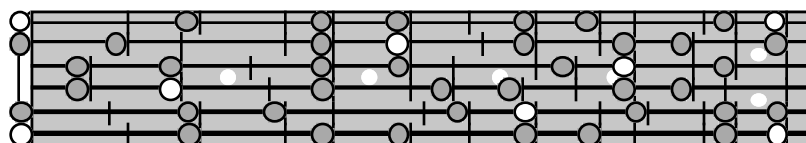
### Neapolitan Minor 1

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 1   | 2     | 4   | 6   | 8   | 9   | 12   | 13   |
| 0   | 113   | 317 | 498 | 702 | 815 | 1087 | 1200 |
| 1/1 | 16/15 | 6/5 | 4/3 | 3/2 | 8/5 | 15/8 | 2/1  |
| E   | F     | G   | A   | B   | C   | D#   | E    |



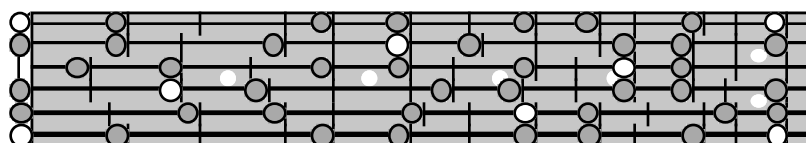
### Harmonic Major 1

|     |     |     |     |     |     |      |      |
|-----|-----|-----|-----|-----|-----|------|------|
| 1   | 3   | 5   | 6   | 8   | 9   | 12   | 13   |
| 0   | 204 | 385 | 498 | 702 | 815 | 1087 | 1200 |
| 1/1 | 9/8 | 5/4 | 4/3 | 3/2 | 8/5 | 15/8 | 2/1  |
| E   | F#  | G#  | A   | B   | C   | D#   | E    |



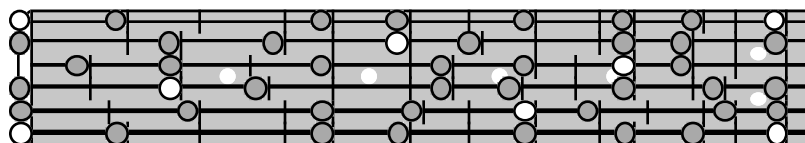
### Numenor 1

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 1   | 2     | 5   | 6   | 8   | 9   | 11   | 13   |
| 0   | 113   | 385 | 498 | 702 | 815 | 1019 | 1200 |
| 1/1 | 16/15 | 5/4 | 4/3 | 3/2 | 8/5 | 9/5  | 2/1  |
| E   | F     | G#  | A   | B   | C   | D    | E    |



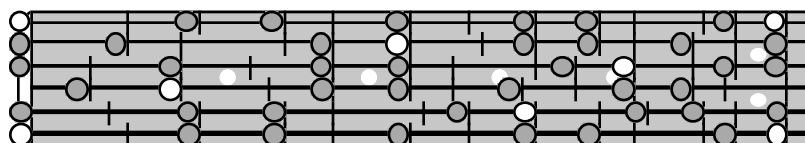
### Lorien 1

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 1   | 2     | 5   | 6   | 8   | 10  | 11   | 13   |
| 0   | 113   | 385 | 498 | 702 | 883 | 1019 | 1200 |
| 1/1 | 16/15 | 5/4 | 4/3 | 3/2 | 5/3 | 9/5  | 2/1  |
| E   | F     | G#  | A   | B   | C#  | D    | E    |



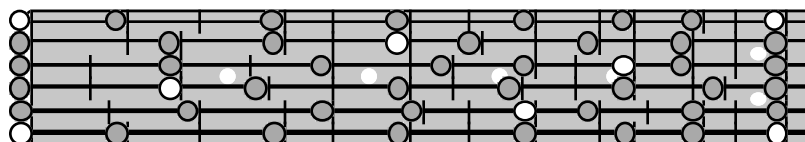
### Harmonic Minor 1

|     |     |     |     |     |     |      |      |
|-----|-----|-----|-----|-----|-----|------|------|
| 1   | 3   | 4   | 6   | 8   | 9   | 12   | 13   |
| 0   | 204 | 317 | 498 | 702 | 815 | 1087 | 1200 |
| 1/1 | 9/8 | 6/5 | 4/3 | 3/2 | 8/5 | 15/8 | 2/1  |
| E   | F#  | G   | A   | B   | C   | D#   | E    |



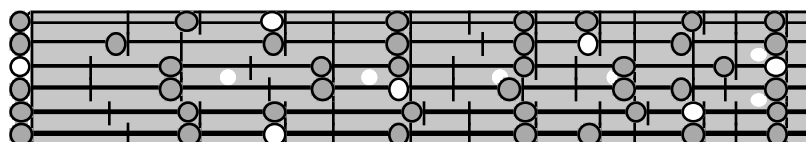
### Rivendell 1

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 1   | 2     | 4   | 6   | 8   | 10  | 11   | 13   |
| 0   | 113   | 317 | 498 | 702 | 883 | 1019 | 1200 |
| 1/1 | 16/15 | 6/5 | 4/3 | 3/2 | 5/3 | 9/5  | 2/1  |
| E   | F     | G   | A   | B   | C#  | D    | E    |



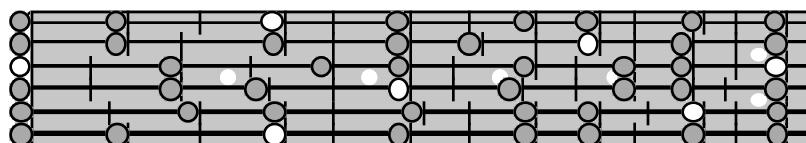
### Major 4

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 4   | 6    | 8   | 9   | 11  | 13  | 15   | 16   |
| 0   | 181  | 385 | 498 | 702 | 883 | 1087 | 1200 |
| 1/1 | 10/9 | 5/4 | 4/3 | 3/2 | 5/3 | 15/8 | 2/1  |
| G   | A    | B   | C   | D   | E   | F#   | G    |



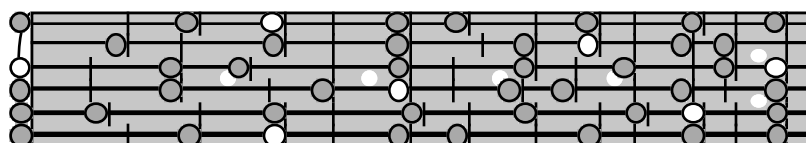
### Mixolydian 4

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 4   | 6    | 8   | 9   | 11  | 13  | 14   | 16   |
| 0   | 181  | 385 | 498 | 702 | 883 | 996  | 1200 |
| 1/1 | 10/9 | 5/4 | 4/3 | 3/2 | 5/3 | 16/9 | 2/1  |
| G   | A    | B   | C   | D   | E   | F    | G    |



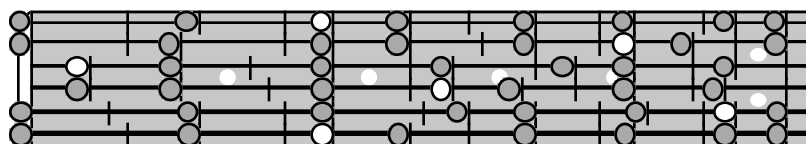
### Melodic Minor 4

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 4   | 6    | 7   | 9   | 11  | 13  | 15   | 16   |
| 0   | 181  | 272 | 498 | 702 | 883 | 1087 | 1200 |
| 1/1 | 10/9 | 7/6 | 4/3 | 3/2 | 5/3 | 15/8 | 2/1  |
| G   | A    | A#  | C   | D   | E   | F#   | G    |



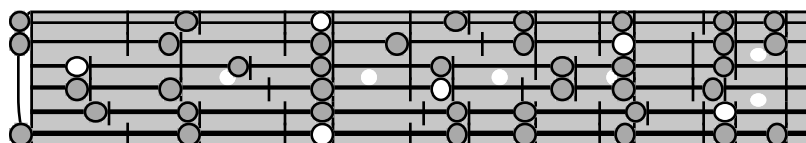
### Phrygian 5

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 5   | 6     | 8   | 10  | 12  | 13  | 15   | 17   |
| 0   | 113   | 317 | 498 | 702 | 815 | 1019 | 1200 |
| 1/1 | 16/15 | 6/5 | 4/3 | 3/2 | 8/5 | 9/5  | 2/1  |
| G#  | A     | B   | C#  | D#  | E   | F#   | G#   |



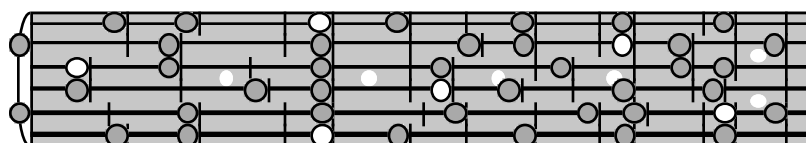
### Natural Minor 5

|     |     |     |     |     |     |      |      |
|-----|-----|-----|-----|-----|-----|------|------|
| 5   | 7   | 8   | 10  | 12  | 13  | 15   | 17   |
| 0   | 204 | 317 | 498 | 702 | 815 | 1019 | 1200 |
| 1/1 | 9/8 | 6/5 | 4/3 | 3/2 | 8/5 | 9/5  | 2/1  |
| G#  | A#  | B   | C#  | D#  | E   | F#   | G#   |



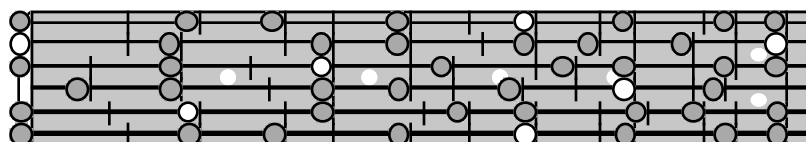
### Rivendell 5

|     |       |     |     |     |      |      |      |
|-----|-------|-----|-----|-----|------|------|------|
| 5   | 6     | 8   | 10  | 12  | 14   | 15   | 17   |
| 0   | 113   | 317 | 498 | 702 | 928  | 1019 | 1200 |
| 1/1 | 16/15 | 6/5 | 4/3 | 3/2 | 12/7 | 9/5  | 2/1  |
| G#  | A     | B   | C#  | D#  | F    | F#   | G#   |



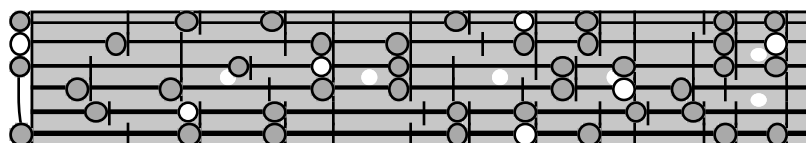
### Melodic Major 8

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 8   | 10   | 12  | 13  | 15  | 16  | 18   | 20   |
| 0   | 181  | 385 | 498 | 702 | 815 | 996  | 1200 |
| 1/1 | 10/9 | 5/4 | 4/3 | 3/2 | 8/5 | 16/9 | 2/1  |
| B   | C#   | D#  | E   | F#  | G   | A    | B    |



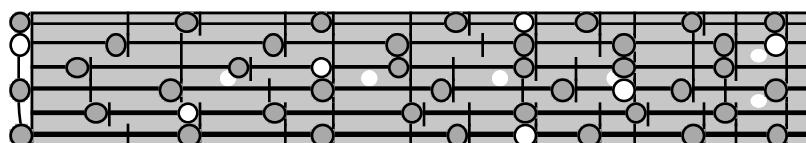
### Arabian 8

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 8   | 9     | 12  | 13  | 15  | 16  | 19   | 20   |
| 0   | 113   | 385 | 498 | 702 | 815 | 1087 | 1200 |
| 1/1 | 16/15 | 5/4 | 4/3 | 3/2 | 8/5 | 15/8 | 2/1  |
| B   | C     | D#  | E   | F#  | G   | A#   | B    |



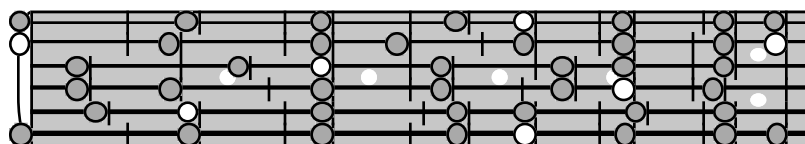
### Neapolitan Major 8

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 8   | 9     | 11  | 13  | 15  | 17  | 19   | 20   |
| 0   | 113   | 317 | 498 | 702 | 883 | 1087 | 1200 |
| 1/1 | 16/15 | 6/5 | 4/3 | 3/2 | 5/3 | 15/8 | 2/1  |
| B   | C     | D   | E   | F#  | G#  | A#   | B    |



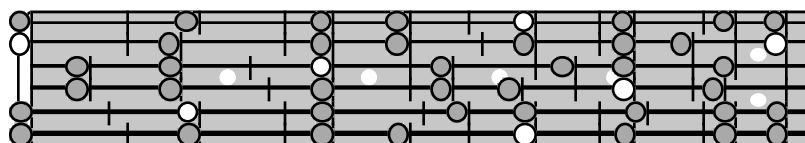
### Major 8

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 8   | 10   | 12  | 13  | 15  | 17  | 19   | 20   |
| 0   | 181  | 385 | 498 | 702 | 883 | 1087 | 1200 |
| 1/1 | 10/9 | 5/4 | 4/3 | 3/2 | 5/3 | 15/8 | 2/1  |
| B   | C#   | D#  | E   | F#  | G#  | A#   | B    |



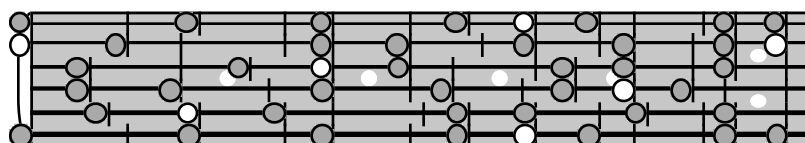
### Mixolydian 8

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 8   | 10   | 12  | 13  | 15  | 17  | 18   | 20   |
| 0   | 181  | 385 | 498 | 702 | 883 | 996  | 1200 |
| 1/1 | 10/9 | 5/4 | 4/3 | 3/2 | 5/3 | 16/9 | 2/1  |
| B   | C#   | D#  | E   | F#  | G#  | A    | B    |



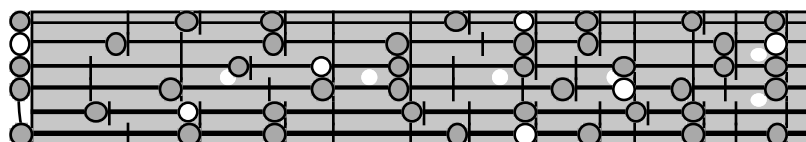
### Gondolin 8

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 8   | 9     | 12  | 13  | 15  | 17  | 19   | 20   |
| 0   | 113   | 385 | 498 | 702 | 883 | 1087 | 1200 |
| 1/1 | 16/15 | 5/4 | 4/3 | 3/2 | 5/3 | 15/8 | 2/1  |
| B   | C     | D#  | E   | F#  | G#  | A#   | B    |



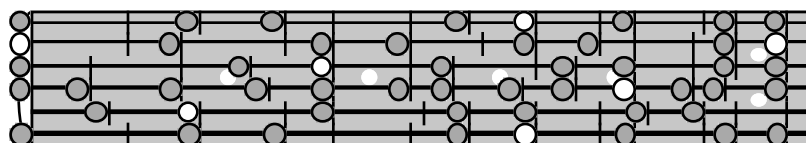
### Neapolitan Minor 8

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 8   | 9    | 11  | 13  | 15  | 16  | 19   | 20   |
| 0   | 113  | 317 | 498 | 702 | 815 | 1087 | 1200 |
| 1/1 | 16/1 | 6/5 | 4/3 | 3/2 | 8/  | 15/8 | 2/1  |
| B   | C    | D   | E   | F#  | G   | A#   | B    |



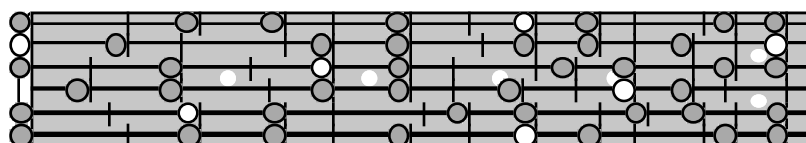
### Harmonic Major 8

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 8   | 10   | 12  | 13  | 15  | 16  | 19   | 20   |
| 0   | 181  | 385 | 498 | 702 | 815 | 1087 | 1200 |
| 1/1 | 10/9 | 5/4 | 4/3 | 3/2 | 8/5 | 15/8 | 2/1  |
| B   | C#   | D#  | E   | F#  | G   | A#   | B    |



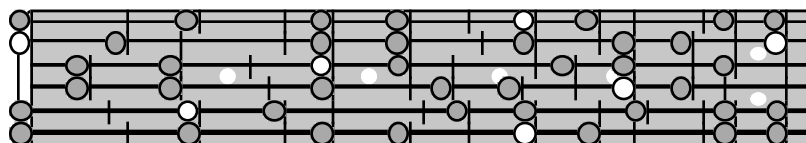
### Numenor 8

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 8   | 9     | 12  | 13  | 15  | 16  | 18   | 20   |
| 0   | 113   | 385 | 498 | 702 | 815 | 996  | 1200 |
| 1/1 | 16/15 | 5/4 | 4/3 | 3/2 | 8/5 | 16/9 | 2/1  |
| B   | C     | D#  | E   | F#  | G   | A    | B    |



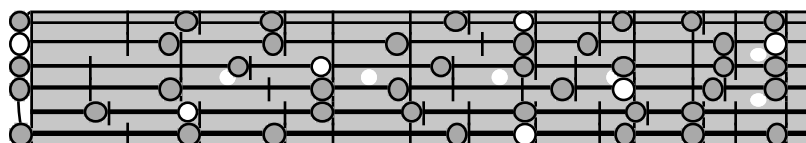
### Lorien 8

|     |       |     |     |     |     |      |      |
|-----|-------|-----|-----|-----|-----|------|------|
| 8   | 9     | 12  | 13  | 15  | 17  | 18   | 20   |
| 0   | 113   | 385 | 498 | 702 | 883 | 996  | 1200 |
| 1/1 | 16/15 | 5/4 | 4/3 | 3/2 | 5/3 | 16/9 | 2/1  |
| B   | C     | D#  | E   | F#  | G#  | A    | B    |



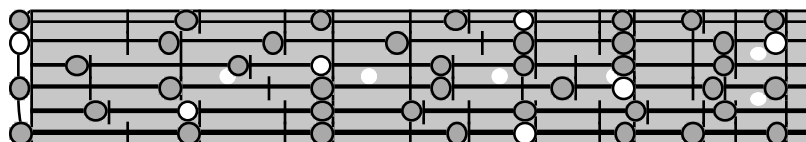
### Harmonic Minor 8

|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 8   | 10   | 11  | 13  | 15  | 16  | 19   | 20   |
| 0   | 181  | 317 | 498 | 702 | 815 | 1087 | 1200 |
| 1/1 | 10/9 | 6/5 | 4/3 | 3/2 | 8/5 | 15/8 | 2/1  |
| B   | C#   | D   | E   | F#  | G   | A#   | B    |



### Melodic Minor 8

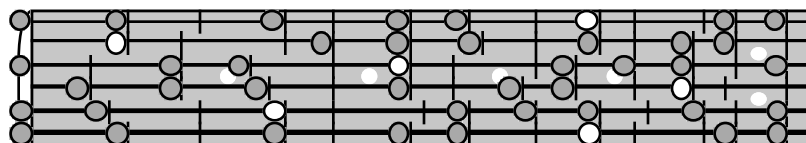
|     |      |     |     |     |     |      |      |
|-----|------|-----|-----|-----|-----|------|------|
| 8   | 10   | 11  | 13  | 15  | 17  | 19   | 20   |
| 0   | 181  | 317 | 498 | 702 | 883 | 1087 | 1200 |
| 1/1 | 10/9 | 6/5 | 4/3 | 3/2 | 5/3 | 15/8 | 2/1  |
| B   | C#   | D   | E   | F#  | G#  | A#   | B    |





# The Crow Scale on 9

|     |     |     |     |     |     |     |      |
|-----|-----|-----|-----|-----|-----|-----|------|
| 9   | 12  | 13  | 14  | 16  | 18  | 19  | 21   |
| 0   | 272 | 385 | 498 | 702 | 883 | 974 | 1200 |
| 1/1 | 7/6 | 5/4 | 4/3 | 3/2 | 5/3 | 7/4 | 2/1  |
| C   | D#  | E   | F   | G   | A   | A#  | C    |



# Chapter Seven

## For the Record

I propose a naming system for Eagle 53 instruments. In 12 Tone Equal Temperament the A notes have set frequencies or pitches. So standard A notes have frequencies of 55Hz, 110Hz, 220Hz, 440Hz, 880Hz or any notes that are octaves lower or higher than these. Similarly the E notes have fixed frequencies of 41.2Hz, 82.4Hz, 164.8Hz, 329.6Hz and so on.

With my Eagle 53 tuning the notes are named similarly to 12TET but they do not correspond to fixed frequencies, they are variable. The notes of Eagle 53 over a one octave range are very close to the following just notes...

$1/1, 16/15, 9/8, 6/5, 5/4, 4/3, 7/5, 3/2, 8/5, 5/3, 9/5, 15/8, 2/1$ .

The first note,  $1/1$ , could be set to any desired frequency (say it's 100Hz for this example). The second note will be (approximately) 100Hz by  $16/15$ . The third note will be (approximately) 100Hz by  $9/8$  and so on.

I have decided to name  $1/1$ , "E".  $16/15$  is "F".  $9/8$  is "F#" (or Gb).  $6/5$  is "G", and so on, similar to the 12TET system. But these names do not correspond to fixed frequencies or pitches, they can be assigned any pitches you want. On my Eagle guitar the bottom E string is tuned to the standard 12TET 'E' (82.4Hz if I remember correctly). So my "Eagle E" is tuned to "Equal E" if you see what I mean. I could tune all the strings up a standard 100 cents semitone and then my "Eagle E" would be tuned to "Equal F". I could tune my Eagle E down a semitone and then my "Eagle E" would be tuned to "Equal D#".

In other words with my Eagle E, F, F#, G, G#, A etc. I could choose any note from standard 12TET and that will be how my Eagle E is tuned and all the other Eagle notes will be tuned relative to this chosen pitch. Why do it this way?

Imagine playing a composition on a keyboard tuned to Eagle 53 and the E key ( $1/1$ ) is tuned to "Equal E". If you want to play the same tune in, say, Equal G and you retuned the keyboard so that "Eagle E" is now tuned to "Equal G" and is located on the physical white G key you will have to learn a lot of new chord and

scale shapes, many of which didn't exist in the initial tuning. This is because Eagle 53 is not an equal tuning, the distances between adjacent notes varies quite a bit.

Put simply keeping the Eagle 1/1 on just one key (the 'E' key) vastly reduces the number of chord and scale shapes you would need to memorize. If "Eagle E" is implemented on any other physical key (other than a white E key) on a keyboard (e.g. F#) a whole new set of chord and scale shapes need to be learned which complicates matters a lot. It's much simpler to always have "Eagle E" on the physical E key. If you want to play the same piece in another key, choose any 12TET pitch you want for "Eagle E" and all the other notes must be tuned up or down according to Eagle 53 and 1/1 will *always* be on the physical E white key.

To implement this idea I propose a switch on electronic keyboards whereby every note on the instrument can be simultaneously tuned up or down by 1 or 2 or 3 or 4 or 5 or 6 standard 100 cents semitones. The default tuning could be Eagle 53 where "Eagle E" is tuned to "Equal E" on the physical E white key and all the other notes are tuned according to the Eagle 53 tuning.

Electric or amplified guitars could use a pedal that shifts the pitches of the notes played up or down by 1 or 2 or 3 or 4 or 5 or 6 standard semitones but this may not be practical if the player can hear both the physical guitar and the retuned notes coming out of a speaker at the same time. Headphones might work here.

If I had to choose an nEDO (n Equal Divisions of the Octave, 12EDO is the same as 12TET) where *all* the notes are implemented, or fretted, on a guitar it would be 19EDO. 2:3:4:5:6:8 major chords are available (obviously on every note) within 7.3 cents of just and every melodic interval, over a one octave range (except the 63 cents single step interval) is good for me. And 1/1, 4/3, 3/2 and 2/1 are all there within 7.3 cents accuracy.

# Afterword

I am not 100% sure that my method for calculating the overall strengths of chords with three or more notes is correct. If it turns out that the method *is* inaccurate I still stand over the 940 lush chords illustrated in this book that have a strength value equal to or greater than 0.75. If you are happy to use minor chords then every lush chord listed here is definitely stronger than any minor chord and should therefore be acceptable.

Watch out for the sequel to this book which should be published within six weeks of the time of writing: The Eagle 53 Guitarist Jazz Chords.

I also intend to write a short book that elaborates on my ‘melodic base’ idea. I will choose a set of notes for my melodic base and then list a lot of chords where every note belongs to the melodic base so every possible progression of these chords should be good.

After all that is finished I hope to write a book about 19EDO (19 Equal Divisions of the Octave). 19EDO is my favorite EDO where every note has a corresponding fret on a guitar. Eagle 53 is a 12 note *subset* of 53EDO.

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11th January, 2021

## Notes