

MOS SCALE TREE

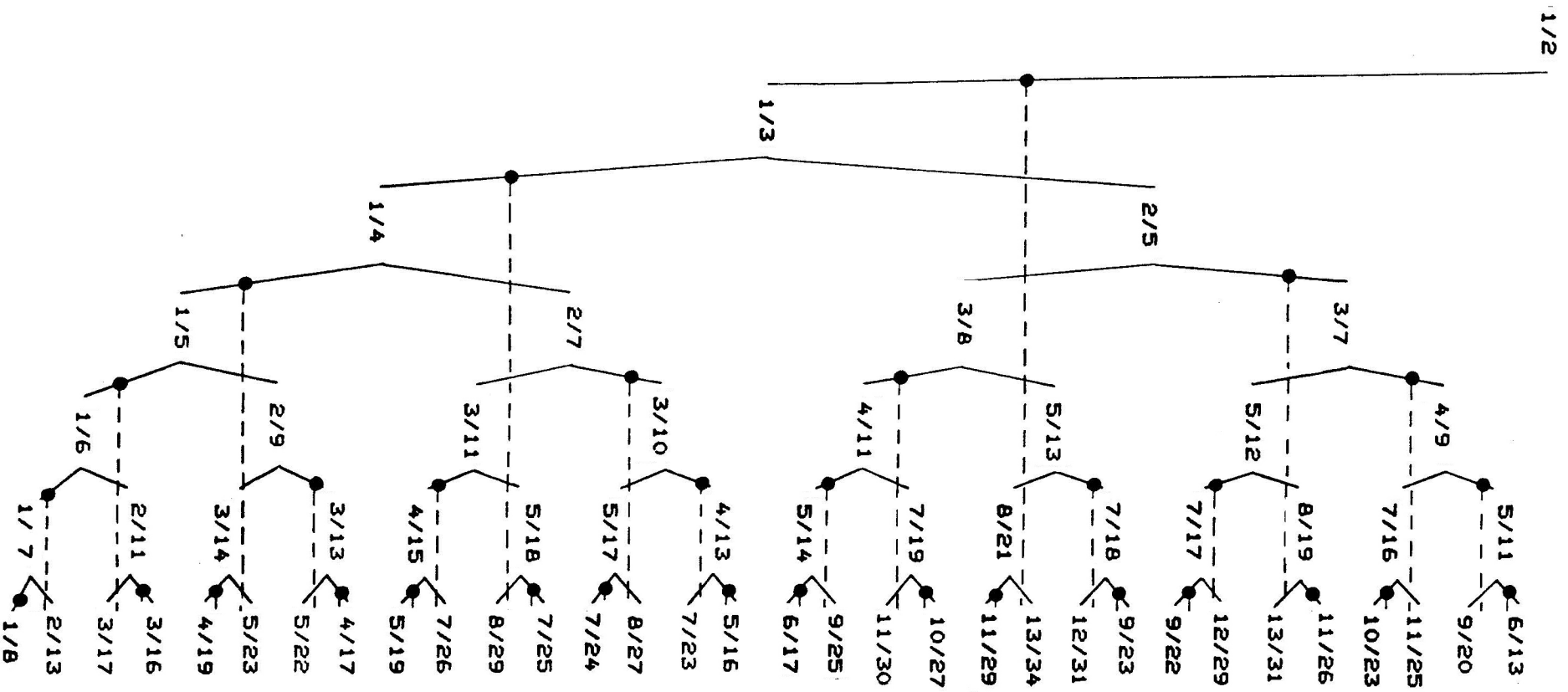
TO USE THIS PDF
ONE CLICKS ON THE BOX
WHICH TAKES YOU TO
THE MOS OF THAT
GENERATOR AND PERIOD.

FROM THERE ONE HAS OPTIONS
TO MOVE TO THOSE THAT LIE ABOVE
OR BELOW ON THE TREE
OR ONE CAN RETURN TO THE TREE
ITSELF BY CLICKING ON THE MOS
PATTERNS THEMSELVES.

BOXES WORK BUT ARE NOT VISIBLE
IF USED ON ONLINE. VIEWED BEST WITH
VIEW SET TO PAGE FIT.

PATTERNS DRAWN BY ERV WILSON
ARRANGED IN THIS FASHION
BY KRAIG GRADY

6/6/16



Generator 1/5

0 1 2 3 0

1			4	
1	1		3	
1	1	1	2	

0 1 2 3 5

1/2

1/3

1/4

1/6

2/9

Generator $1/6$

$1/5$

0	1	2	3	4	0
1			5		
1	1		4		
1	1	1	3		
1	1	1	1	2	
0	1	2	3	4	6

$1/2$

$1/3$

$1/4$

$1/5$

$1/7$

$2/11$

Generator $2/10$

Generator 1/7

1/6

0 1 2 3 4 5 0

1				6		
1	1			5		
1	1	1		4		
1	1	1	1	3		
1	1	1	1	1	2	

0 1 2 3 4 5 7

1/2

1/3

1/4

1/5

1/6

1/8

2/13

Generator 1/8

1/7

0 1 2 3 4 5 6 0

1					7		
1	1				6		
1	1	1			5		
1	1	1	1		4		
1	1	1	1	1	3		
1	1	1	1	1	1	2	

0 1 2 3 4 5 6 8

1/2

1/3

1/4

1/5

1/6

1/7

Generator 2/13

1/7

0	1	2	3	4	5	6	0	
2				11				1/2
2	2			9				1/3
2	2	2			7			1/4
2	2	2	2		5			1/5
2	2	2	2	2		3		1/6
2	2	2	2	2	2	1		1/7
0	2	4	6	8	10	12	13	

Generator 2/11

1/6

0	1	2	3	4	5	0
2			9			
2	2			7		
2	2	2			5	
2	2	2	2		3	
2	2	2	2	2	2	1
0	2	4	6	8	10	11

1/2

1/3

1/4

1/5

1/6

3/17

3/16

Generator 3/17

2/11

0	6	1	7	2	8	3	9	4	10	5	0	
3						14						1/2
3		3						11				1/3
3		3		3				8				1/4
3		3		3		3			5			1/5
3		3		3		3		3		2		1/6
1	2	1	2	1	2	1	2	1	2	2		2/11
0	1	3	4	6	7	9	10	12	13	15	17	

Generator 3/16

2/11

0	6	1	7	2	8	3	9	4	10	5	0	
3						13						1/2
3		3					10					1/3
3		3		3				7				1/4
3		3		3		3			4			1/5
3		3		3		3		3		1		1/6
2	1	2	1	2	1	2	1	2	1	1		2/11
0	2	3	5	6	8	9	11	12	14	15	16	

Generator 2/9

1/5

0	1	2	3	4	0
2			7		
2	2		5		
2	2	2		3	
2	2	2	2	1	
0	2	4	6	8	9

1/2

3/14

1/3

1/4

1/5

3/13

Generator 3/14

2/9

0	5	1	6	2	7	3	8	4	0
3						11			
3		3					8		
3		3		3				5	
3		3		3		3		2	
1	2	1	2	1	2	1	2	2	
0	1	3	4	6	7	9	10	12	14

4/19

1/2

1/3

1/4

1/5

2/9

5/23

Generator 4/19

3/14

0	5	10	1	6	11	2	7	12	3	8	13	4	9	0	
	4								15						1/2
	4			4						11					1/3
	4			4			4					7			1/4
	4			4			4			4			3		1/5
1		3	1		3	1		3	1		3		3		2/9
1	1	2	1	1	2	1	1	2	1	1	2	1	2		3/14
0	1	2	4	5	6	8	9	10	12	13	14	16	17	19	

Generator 5/23

0	5	10	1	6	11	2	7	12	3	8	13	4	9	0	
	5							18							1/2
	5			5						13					1/3
	5			5			5				8				1/4
	5			5			5			5			3		1/5
2		3	2		3	2		3	2		3		3		2/9
2	2	1	2	2	1	2	2	1	2	2	1	2	1		3/14
0	2	4	5	7	9	10	12	14	15	17	19	20	22	23	

Generator 3/13

2/9

0	5	1	6	2	7	3	8	4	0
3					10				
3		3				7			
3		3		3			4		
3		3		3			3	1	
2	1	2	1	2	1	2	1	1	
0	2	3	5	6	8	9	11	12	13

1/2

5/22

1/3

1/4

1/5

2/9

4/17

Generator 5/22

3/13

0	9	5	1	10	6	2	11	7	3	12	8	4	0	
		5						17						1/2
		5			5					12				1/3
		5			5			5			7			1/4
		5			5			5			5		2	1/5
	3		2		3	2		3	2		3	2	2	2/9
1	2	2	1	2	2	1	2	2	1	2	2	2	2	3/13
0	1	3	5	6	8	10	11	13	15	16	18	20	22	

Generator 4/17

3/13

0	9	5	1	10	6	2	11	7	3	12	8	4	0	
	4						13							1/2
	4			4					9					1/3
	4			4			4			5				1/4
	4			4			4			4		1		1/5
	3		1	3		1	3		1	3		1	1	2/9
	2	1	1	2	1	1	2	1	1	2	1	1	1	3/13
0	2	3	4	6	7	8	10	11	12	14	15	16	17	

Generator 2/7 (of the 8ve)

0 1 2 3 0

2		5	
2	2	3	
2	2	2	1

0 2 4 6 7

3/11

1/2

1/3

3/10

1/4

└┐

intervals in 8ve

└┐

intervals spanned by generator

Generator 3/11

2/7

0	1	2	3	0
	3		8	
	3	3	5	
	3	3	3	2
1	2	1	2	1
2	1	2	1	2
3	0	3	4	6
4	1	2	1	7
5	3	0	2	9
6	4	1	3	11

1/2 4/15

1/3

1/4

2/7

5/18

Generator 4/15

0 4 8 1 5 9 2 6 10 3 7 0

4			11					
4			4			7		
4			4			3		
1		3	1		3	1		3
1	1	2	1	1	2	1	1	2

0 1 2 4 5 6 8 9 10 12 13 15

1/2

1/3

1/4

2/7

3/11

5/19

7/26

3/11

Generator 5/19

4/15

0	4	8	12	1	5	9	13	2	6	10	14	3	7	11	0
		5								14					1/2
		5				5						9			1/3
		5				5				5				4	1/4
1			4	1			4	1			4			4	2/7
1	1		3	1	1		3	1	1		3	1		3	3/11
1	1	1	2	1	1	1	2	1	1	1	2	1	1	2	4/15
0	1	2	3	5	6	7	8	10	11	12	13	15	16	17	19

Generator 7/26

4/15

0	4	8	12	1	5	9	13	2	6	10	14	3	7	11	0	
		7							19							1/2
		7				7					12					1/3
		7				7				7				5		1/4
	2		5		2		5		2		5			5		2/7
	2	2	3		2	2	3		2	2	3		2	3		3/11
	2	2	2	1	2	2	2	1	2	2	2	1	2	2	1	4/15
0	2	4	6	7	9	11	13	14	16	18	20	21	23	25	26	

Generator 5/18

8/29

0 4 8 1 5 9 2 6 10 3 7 0

	5						13				
	5			5				8			
	5			5			5			3	
2		3		2		3		2		3	
2		2	1	2		2	1	2		2	1

1/2

1/3

1/4

2/7

3/11

0 2 4 5 7 9 10 12 14 15 17 18

7/25

3/11

Generator 8/29

5/18

0	11	4	15	8	1	12	5	16	9	2	13	6	17	10	3	14	7	0	
		8										21							1/2
		8					8							13					1/3
		8					8					8					5		1/4
	3		5		3		5		3		5		5				5		2/7
	3		3	2	3		3	2	3		3	3	2	3	2				3/11
1	2	1	2	2	1	2	1	2	2	1	2	1	2	2	1	2	2		5/18
0	1	3	4	6	8	9	11	12	14	16	17	19	20	22	24	25	27	29	

Generator 7/25

5/18

0	11	4	15	8	1	12	5	16	9	2	13	6	17	10	3	14	7	0	
		7									18								1/2
		7					7							11					1/3
		7					7					7					4		1/4
	3			4			3			4		3			4		4		2/7
	3			3		1		3		3		1		3		1	3		3/11
	2	1		2	1	1		2	1		2	1	1		2	1	1		5/18
0	2	3	5	6	7	9	10	12	13	14	16	17	19	20	21	23	24	25	

Generator 3/10

0 1 2 3 0

	3			7						
	3			3			4			
	3			3			3		1	
	2	1		2	1		2	1	1	

0 2 3 5 6 8 9 10

1/2

1/3

1/4

2/7

5/17

4/13

2/7

Generator 5/17

0	7	4	1	8	5	2	9	6	3	0
		5					12			
		5			5			7		
		5			5			5		2
	3		2		3	2		3	2	2
1	2	2	1	2	2	1	2	2	2	2
0	1	3	5	6	8	10	11	13	15	17

3/10

1/2 7/24

1/3

1/4

2/7

3/10 8/27

Generator 7/24

5/17

0	7	14	4	11	1	8	15	5	12	2	9	16	6	13	3	10	0	
			7									17						1/2
			7					7						10				1/3
			7					7					7			3		1/4
		4			3		4		3		4			3		3		2/7
	1		3		3		1		3		3		1		3		3	3/10
	1	1	2		1	2		1	1	2		1	1	2		1	2	5/17
0	1	2	4	5	7	8	9	11	12	14	15	16	18	19	21	22	24	

Generator 8/27

5/17

0	7	14	4	11	1	8	15	5	12	2	9	16	6	13	3	10	0		
		8									19							1/2	
		8					8						11					1/3	
		8					8					8				3		1/4	
	5			3			5		3			5		3		3		2/7	
2	3		3		2		3		3		2	3		3		3		3/10	
2	2	1	2	1	2		2	1	2	1	2	2	1	2	1	2	1	5/17	
0	2	4	5	7	8	10	12	13	15	16	18	20	21	23	24	26	27		

Generator 7/23

4/13

0	10	7	4	1	11	8	5	2	12	9	6	3	0	
		7							16					1/2
		7				7				9				1/3
		7				7				7			2	1/4
		5		2		5		2		5		2	2	2/7
	3		2	2		3		2	2	3		2	2	3/10
1	2		2	2	1	2		2	2	1	2	2	2	4/13
0	1	3	5	7	8	10	12	14	15	17	19	21	23	

Generator 5/16

4/13

0	10	7	4	1	11	8	5	2	12	9	6	3	0	
	5							11						1/2
	5				5				6					1/3
	5				5				5			1		1/4
	4		1		4		1		4		1	1		2/7
	3	1	1		3	1	1		3	1	1	1		3/10
	2	1	1	1	2	1	1	1	2	1	1	1	1	4/13
0	2	3	4	5	7	8	9	10	12	13	14	15	16	

Generator 3/8

Linear

0 3 1 4 2 0

4/11

	3			5	
	3		3		2
1	2	1	2		2

1/2

1/3

2/5

5/13

0 1 3 4 6 8

Generator 4/11

0 3 6 1 4 7 2 5 0

		4				7		
		4			4			3
1		3		1		3		3
1	1	2		1	1	2	1	2

0 1 2 4 5 6 8 9 11

1/2

1/3

2/5

3/8

5/14

7/19

3/8

Generator 5/14

4/11

0 3 6 9 1 4 7 10 2 5 8 0

5				9							
5				5				4			
1	4			1	4			4			
1	1	3		1	1	3		1	3		
1	1	1	2	1	1	1	2	1	1	2	

0 1 2 3 5 6 7 8 10 11 12 14

1/2

6/17

1/3

2/5

3/8

4/11

9/25

Generator 6/17

0 3 6 9 12 1 4 7 10 13 2 5 8 11 0

6					11				
6					6				
1	5				1	5			
1	1	4			1	1	4		
1	1	1	3		1	1	1	3	
1	1	1	1	2	1	1	1	1	2

0 1 2 3 4 6 7 8 9 10 12 13 14 15 17

1/2

1/3

2/5

3/8

4/11

5/14

5/14

Generator 9/25

5/14

0	3	6	9	12	1	4	7	10	13	2	5	8	11	0	
		9						16							1/2
		9					9				7				1/3
	2		7			2		7			7				2/5
	2	2		5		2	2		5		2		5		3/8
	2	2	2	3		2	2	2	3		2	2	3		4/11
	2	2	2	2	1	2	2	2	2	1	2	2	2	1	5/14
0	2	4	6	8	9	11	13	15	17	18	20	22	24	25	

Generator 7/19

0 3 6 9 1 4 7 10 2 5 8 0

11/30

7					12						
7					7				5		
2	5				2	5			5		
2	2	3			2	2	3		2	3	
2	2	2	1	2	2	2	1	2	2	1	

1/2

1/3

2/5

3/8

4/11

10/27

0 2 4 6 7 9 11 13 14 16 18 19

4/11

Generator 11/30

7/19

0	1	3	4	6	7	9	1	12	4	15	7	18	10	2	13	5	16	8	0	
				11								19								1/2
				11						11						8				1/3
	3				8			3			8					8				2/5
	3		3			5		3		3		5		3			5			3/8
	3		3		3		2	3		3		3		2		3		3	2	4/11
1	2	1	2	1	2		2	1	2	1	2	1	2	2	1	2	1	2	2	7/19
0	1	3	4	6	7	9	11	12	14	15	17	18	20	22	23	25	26	28	30	

Generator 10/27

7/19

0	1	3	14	6	17	9	1	12	4	15	7	18	10	2	13	5	16	8	0	
			10									17								1/2
			10							10						7				1/3
	3				7				3			7				7				2/5
	3		3			4			3		3		4			3		4		3/8
	3		3		3		1		3		3		3		1	3		3		4/11
	2	1	2	1	2	1	1	2	1	2	1	2	1	1	2	1	2	1	1	7/19
0	2	3	5	6	8	9	10	12	13	15	16	18	19	20	22	23	25	26	27	

Generator 5/13

0 3 6 1 4 7 2 5 0

	5			8				
	5			5		3		
2		3		2		3		3
2	2	1	2	2	1	2	1	

0 2 4 5 7 9 10 12 13

1/2 8/21

1/3

2/5

3/8 7/18

3/8

Generator 8/21

0 8 3 11 6 1 9 4 12 7 2 10 5 0

11/29

			8						13								
			8						8					5			
	3			5			3			5				5			
	3		3		2		3		3		2		3		2		
	1	2	1	2	2	1	2	1	2	2	1	2	2				

1/2

1/3

2/5

3/8

5/13

13/34

0 1 3 4 6 8 9 11 12 14 16 17 19 21

5/13

Generator 11/29

8/21

0 8 16			3 11 19			6 14			1 9 17			4 12 20			7 15			2 10 18			5 13			0
11									18															1/2
11									11										7					1/3
4			7						4			7						7					2/5	
4			4			3			4			4			3			4			3			3/8
1	3	1	3	1	3	3	1	3	1	3	1	3	3	1	3	3	1	3	3				5/13	
1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	2	1	1	2	1	2			8/21	
0	1	2	4	5	6	8	9	11	12	13	15	16	17	19	20	22	23	24	26	27	29			

Generator 13/34

8/21

0	8	16	3	11	19	6	14	1	9	17	4	12	20	7	15	2	10	18	5	13	0
				13										21							1/2
				13								13						8			1/3
		5				8				5				8				8			2/5
	-	5				5		3		5			5		3		5		3		3/8
	2		3		2		3		3		2		3		2		3		3		5/13
	2		2	1	2		2	1	2		2	1	2		2	1	2		2	1	8/21
0	2	4	5	7	9	10	12	13	15	17	18	20	22	23	25	26	28	30	31	33	34

Generator 7/18

0 8 3 11 6 1 9 4 12 7 2 10 5 0

12/31

7			11		
7			7		
3	4		3	4	
3	3	1	3	3	1
2	1	2	1	1	2

1/2

1/3

2/5

3/8

5/13

0 2 3 5 6 7 9 10 12 13 14 16 17 18

9/23

5/13

Generator 12/31

0	13	8	3	16	11	6	1	14	9	4	17	12	7	2	15	10	5	0	
				12									19						1/2
				12						12						7			1/3
		5				7			5			7				7			2/5
		5			5		2		5		5		2		5		2		3/8
	3		2		3		2		2		3		2		2		3		5/13
	1	2		2		1	2		2		2		1	2		2		2	7/18
0	1	3	5	6	8	10	12	13	15	17	18	20	22	24	25	27	29	31	

7/18

Generator 9/23

7/18

0	13	8	3	16	11	6	1	14	9	4	17	12	7	2	15	10	5	0	
			9								14								1/2
			9						9						5				1/3
	4			5				4			5				5				2/5
	4			4		1		4			4		1		4		1		3/8
	3	1		3		1	1	3	1		3	1	1		3		1	1	5/13
	2	1	1	2	1	1	1	2	1	1	2	1	1	1	2	1	1	1	7/18
0	2	3	4	6	7	8	9	11	12	13	15	16	17	18	20	21	22	23	

Generator 3/7

0 3 1 4 2 0

	3			4	
	3		3		1
	2	1	2	1	1

0 2 3 5 6 7

1/2

1/3

2/5

5/12

4/9

Generator $5/12$ (of the 8ve)

linear series

0 5 3 1 6 4 2 0

Scale



$7/17$

$3/7$

	5			7		
	5			5		2
	3	2		3	2	2
1	2	2	1	2	2	2

$2/5$

$8/19$

$3/7$

→ (means 7 intervals in Octave,
generator spans 3 intervals)

0 1 3 5 6 8 10 12

Generator 7/17

5/12

9/22

12/29

0	5	10	3	8	1	6	11	4	9	2	7	0
			7						10			
			7					7				3
		4		3			4		3			3
1		3		3	1		3		3			3
1	1	2	1	2	1	1	2	1	2	1	2	
0	1	2	4	5	7	8	9	11	12	14	15	17

1/2

1/3

2/5

3/7

5/12

Generator 12/29

7/17

0	5	10	15	3	8	13	1	6	11	16	4	9	14	2	7	12	0	
			12								17						1/2	
			12							12					5		1/3	
		7				5			7				5			5	2/5	
	2		5			5		2		5			5			5	3/7	
	2	2		3		2		3	2	2		3	2		3		5/12	
	2	2	2	1	2	2	1	2	2	2	1	2	2	1	2	2	1	7/17
0	2	4	6	7	9	11	12	14	16	18	19	21	23	24	26	28	29	

Generator 8/19

0 5 10 3 8 1 6 11 4 9 2 7 0

13/31

5/12

11/26

		8					11						1/2
		8					8				3		1/3
	5			3			5		3		3		2/5
2		3		3		2		3		3		3	3/7
2	2	1	2	1	2	2	2	1	2	1	2	1	5/12
0	2	4	5	7	8	10	12	13	15	16	18	19	

Generator 13/31

0	12	5	17	10	3	15	8	1	13	6	18	11	4	16	9	2	14	7	0			
				13								18								1/2		
				13								13								5	1/3	
				8								5								5	2/5	
3				5				5				3				5				5	3/7	
3				3		2		3		2		3		3		2		3		2		5/12
1		2		1		2		2		1		2		2		1		2		2		8/19
0	1	3	4	6	8	9	11	13	14	16	17	19	21	22	24	26	27	29	31			

8/19

Generator 11/26

0	12	5	17	10	3	15	8	1	13	6	18	11	4	16	9	2	14	7	0
			11								15								
			11								11						4		
		7				4				7				4			4		
	3		4			4			3		4			4			4		
	3		3	1		3	1		3		3	1		3	1		3	1	
	2	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1
0	2	3	5	6	7	9	10	11	13	14	16	17	18	20	21	22	24	25	26

1/2

1/3

2/5

3/7

5/12

8/19

8/19

Generator 4/9

3/7

0			1				2	0
	4					5		
	4				4		1	
	3	1		3	1	1		
	2	1	1	2	1	1	1	
0	2	3	4	6	7	8	9	

1/2

7/16

1/3

2/5

3/7

5/11

Generator 7/16

0 7 5 3 1 8 6 4 2 0

		7					9		
		7					7		2
		5		2		5		2	2
	3		2	2		3	2	2	2
1	2	2	2	1	2	2	2	2	2

0 1 3 5 7 8 10 12 14 16

1/2

1/3

2/5

3/7

4/9

10/23

11/25

4/9

Generator 10/23

7/16

0	7	14	5	12	3	10	1	8	15	6	13	4	11	2	9	0	
				10							13						1/2
				10							10				3		1/3
		7				3			7				3		3		2/5
		4			3	3		4		3		3		3			3/7
	1		3		3		3		1	3		3		3		3	4/9
	1	1	2	1	2	1	2	1	1	2	1	2	1	2	1	2	7/16
0	1	2	4	5	7	8	10	11	12	14	15	17	18	20	21	23	

Generator 11/25

7/16

0	7	14	5	12	3	10	1	8	15	6	13	4	11	2	9	0	
			11							14							1/2
			11							11					3		1/3
		8					3		8				3		3		2/5
	5			3		3		5			3		3		3		3/7
2	3		3		3		2	3		3		3		3			4/9
2	2	1	2	1	2	1	2	2	1	2	1	2	1	2	1		7/16
0	2	4	5	7	8	10	11	13	15	16	18	19	21	22	24	25	

Generator 5/11

0 7 5 3 1 8 6 4 2 0

	5					6				
	5					5			1	
	4		1			4		1	1	
	3		1	1		3		1	1	1
	2	1	1	1		2	1	1	1	1

0 2 3 4 5 7 8 9 10 11

1/2

1/3

2/5

3/7

4/9

9/20

6/13

4/9

Generator 9/20

5/11

0	9	7	5	3	1	10	8	6	4	2	0	
			9					11				1/2
			9					9			2	1/3
		7			2		7		2	2		2/5
		5		2	2		5		2	2	2	3/7
	3		2	2	2		3	2	2	2	2	4/9
1	2	2	2	2	2	1	2	2	2	2	2	5/11
0	1	3	5	7	9	10	12	14	16	18	20	

Generator 6/13

0 9 7 5 3 1 10 8 6 4 2 0

6						7							1/2			
6						6				1			1/3			
5					1	5				1	1		2/5			
4					1	1				1	1	1	3/7			
3					1	1	1			3		1	1	1	4/9	
2					1	1	1	1		2		1	1	1	1	5/11

5/11