

FCC Composite Gain Test Report

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Basic Information

EUT Description:	BE22000 Whole Home Mesh Wi-Fi 7 Router		
Brand Name:	tp-link		
Model Name:	Deco BE85		
Tested By:	Li Guoji	Date:	2025/11/04

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1 Operation Mode and Antenna Information

1.1 EUT Operation Mode

The **Deco BE85**(MODEL NUMBER) is the Three-band wireless router of 12 internal antennas, of which 6 were 2.4G & 5G Dual-Band antennas and 6 were 6G antennas

1.2 Antenna Information

The Antennas are internal , the Locations of Antennas are shown below:

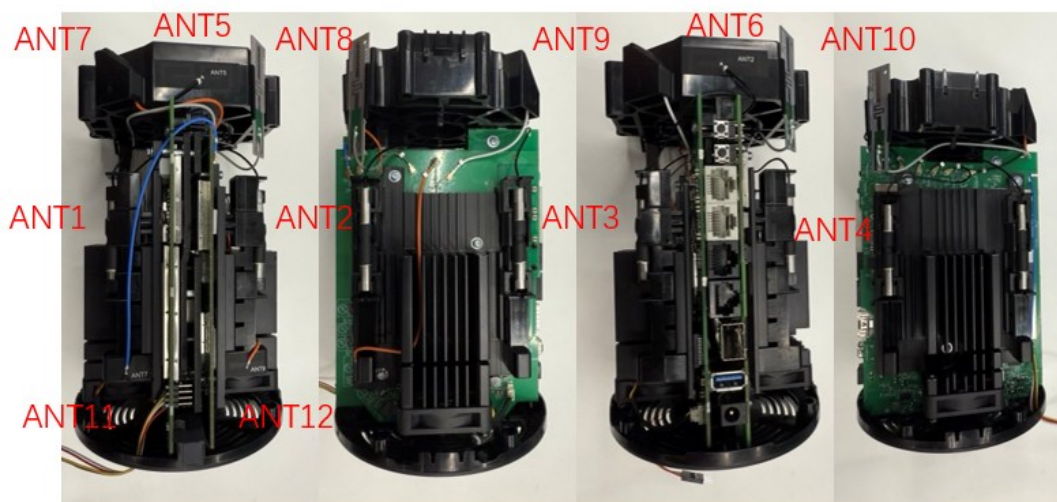


Figure 1-1 Locations of Antennas

The Antenna Information was shown below:

Table 1-1 Antenna Information

Antenna Position	Antenna Type	Connector	Mode of operation
Ant1	Dipole	ipex	2.4G&5G
Ant2	Dipole	ipex	2.4G&5G
Ant3	Dipole	ipex	2.4G&5G
Ant4	Dipole	ipex	2.4G&5G
Ant5	Dipole	ipex	2.4G&5G
Ant6	Dipole	ipex	2.4G&5G
Ant7	Dipole	ipex	6G
Ant8	Franklin	ipex	6G
Ant9	Dipole	ipex	6G
Ant10	Franklin	ipex	6G
Ant11	Dipole	ipex	6G
Ant12	Dipole	ipex	6G

1.3 Test Frequency

Test frequency bands are shown in *Table 1-2*.

Table 1-2 Test Frequency

Frequency Band(MHz)
2400-2500
5150-5250
5250-5350
5470-5725
5725-5925
5925-6425
6425-6525
6525-6875
6875-7125

2 Test System

2.1 Test Equipment

Table 2-1 Test System

Equipment	Model	Manufacturer	S/N	Cali. Interval	Cali. Due Date
Chamber	Rayzone2800	GTS	MY53470435	12months	2026/04/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2026/05/27

2.2 Test Software

Table 2-2 Test Software

Software	Version	Function
GTS MaxSign100	V2.1	Passive Antenna Measurements

3 Test Summary

3.1 Measurement Environment

This measurement experiment adopted an antenna near-field measurement system, and the diagram of the measurement system was shown in Figure 3-1. The excitation signal was generated by the Keysight E5071C (300kHz-20GHz). Under the control of the central computer, the probe rotated in the θ direction, and the EUT rotated in the ϕ direction with the turntable. The probe sampling frame received and collected signals in the near-field range of the EUT. The software system which was controlled by the central computer completed the processing, output and display of the test data.

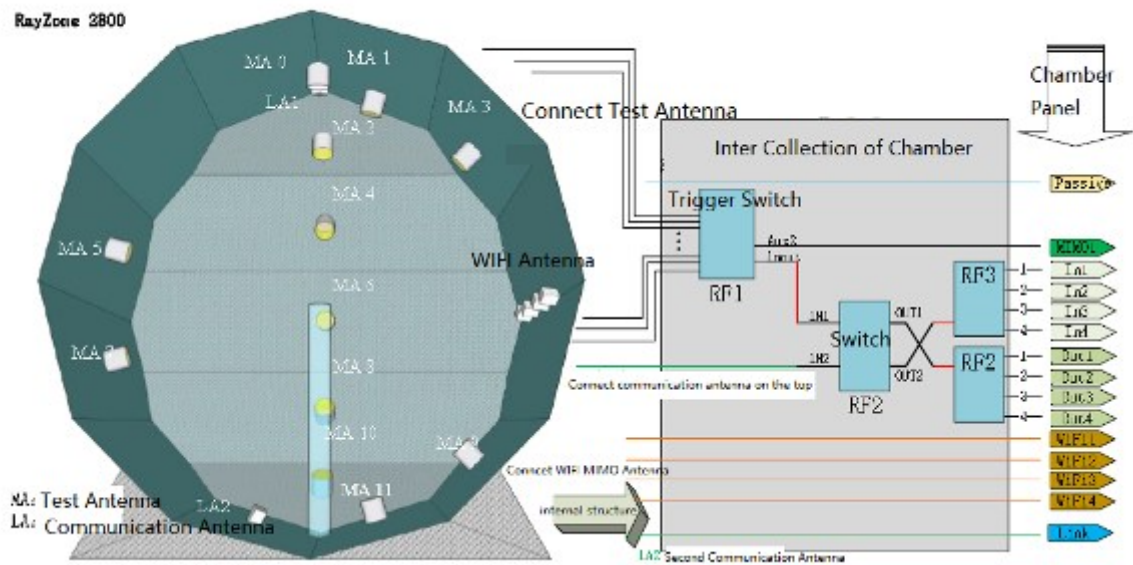


Figure 3-1 Schematic diagram of antenna near-field measurement system

The test site was a full anechoic chamber with a size of 3.0m×3.1m×2.97m, which was built by GTS Rayzone2800. All six surfaces of the anechoic chamber were pasted with absorbing materials. And the chamber was calibrated by the authoritative third-party lab every year. The antenna anechoic chamber measurement system adopted a 13-probe multi-probe system. The probe antennas were evenly distributed on the spherical surface surrounding the EUT, and their operating frequency was 600MHz~8.5GHz.

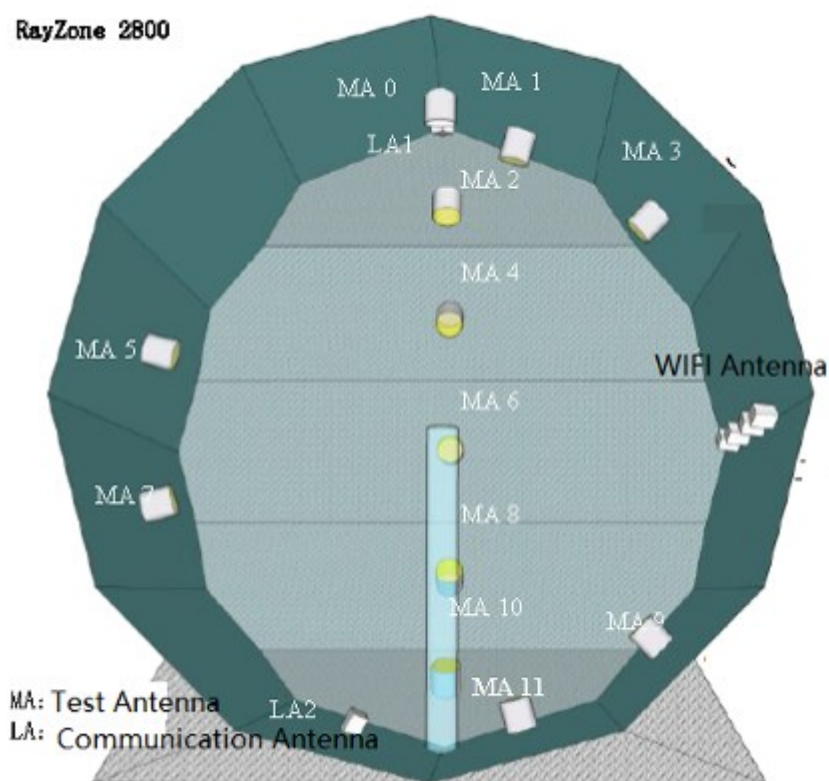


Figure 3-2 Antenna anechoic chamber for near-field measurement

During the measurement, the probe antennas were rotated in the θ direction under the control of the probe holder to sample the near-field data at the θ angle. At the same time, the EUT rotated with the turntable in the ϕ direction to sample the near field data at the ϕ angle. The system diagram was shown in Figure 3-3. From the sampling results, the EUT's near-field test data of θ component, ϕ component and total component could be obtained.

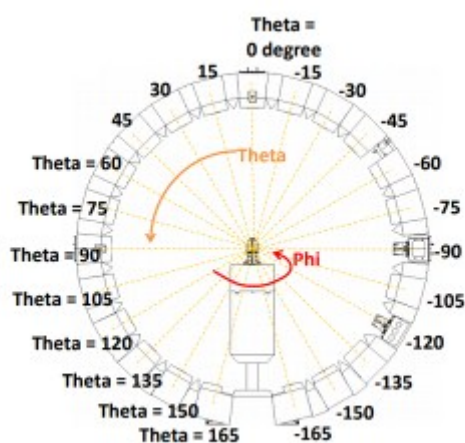


Figure 3-3 System diagram

Before the measurement, calibrated the vector network analyzer, and then connected the input end of each antenna to the output end of the vector network analyzer, and evenly the antennas to be measured. The Calibration information was shown in table 2-1.

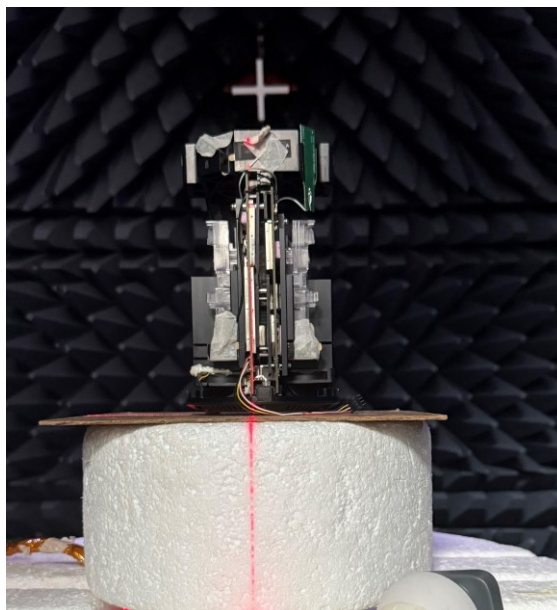


Figure 3-4 Antennas measurement diagram

Table 3-1 Calibration information

Measurement Class	Standard
Cal Type	2p/1-2
Cal Kit	N4691B

3.2 Measurement Quantity

In this measurement experiment, the Directional Gain was measured at a certain frequency interval within the whole frequency range. The measurement frequency interval of the 2.4G antennas was 10MHz, while the 5GL and 5GU and 6G antennas was 50MHz.

3.3 Test Method

During the measurement, the probe antennas were rotated in the θ direction under the control of the probe holder to sample the near-field data at the θ angle. At the same time, the EUT rotated with the turntable in the φ direction to sample the near field data at the φ angle. The sampling accuracy was 15° . The system diagram was shown in Figure 2-6. From the sampling results, the EUT's near-field test data of θ component, φ component and total component could be obtained.

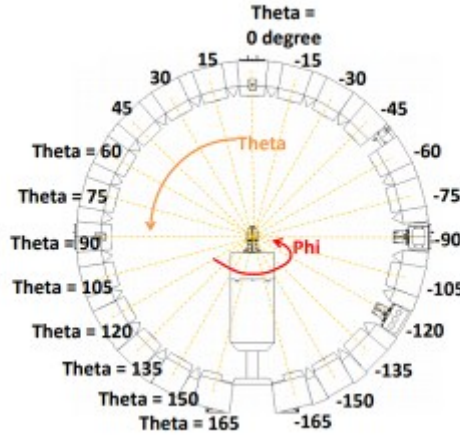


Figure 3-5 Test angle

3.4 Directional Gain (Nss=1) Calculations

Multiple antennas system, each of which has one of two (or three) polarizations that are orthogonal to one another (i.e., cross polarized), The total gain—including array gain—is computed separately for each of the two (or three) polarizations using the procedures presented in this document. The highest of the total gains shall apply.

Theoretical Directional Gain represented the theoretical value calculated by formula 2-1. As we all know, the effect of array gain must be included in the calculation of overall directional antenna gain for devices that transmit on multiple outputs simultaneously in the same band, in the same or in overlapping frequency ranges. Therefore, in formula 2-1, the directional gain calculation needs to include all directions and all Frequencies and all Polarizations, and then take the maximum value as the final directional gain value. Therefore, the calculation formula of theoretical directional gain value can be modified as formula 2-2

$$\text{Directional Gain} = 10\log \left[\frac{\sum_{j=1}^{N_{ss}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \quad (2-1)$$

Where

Nss = the number of independent spatial streams of data; NSS =1.

Nant = the total number of antennas: NANT =4 for 2.4G & 5G & 6G antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna .

$$\text{Directional Gain} = \text{Maximum} \left[10\log \left[\frac{\sum_{j=1}^{N_{ss}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \right] \quad (2-2)$$

Maximum function is the max directional gain overall directions and all frequency all polarizations.

3.5 Directional Gain (Nss=N_{ant}) Calculations

Multiple antennas system, each of which has one of two (or three) polarizations that are orthogonal to one another (i.e., cross polarized), The total gain—including array gain—is computed separately for each of the two (or three) polarizations using the procedures presented in this document. The highest of the total gains shall apply.

Theoretical Directional Gain represented the theoretical value calculated by formula 2-1. As we all know, the effect of array gain must be included in the calculation of overall directional antenna gain for devices that transmit on multiple outputs simultaneously in the same band, in the same or in overlapping frequency ranges. Therefore, in formula 2-1, the directional gain calculation needs to include all directions and all Frequencies and all Polarizations, and then take the maximum value as the final directional gain value. Therefore, the calculation formula of theoretical combined gain value can be modified as formula 2-2

$$\text{Directional Gain} = 10\log \left[\frac{\sum_{j=1}^{N_{ANT}} g_{j,k}}{N_{ANT}} \right] \quad (2-3)$$

Where

Nss = the number of independent spatial streams of data; NSS =Nant.

Nant = the total number of antennas: NANT =4 for 2.4G & 5G & 6G antennas

$$g_{j,k} = 10^{G_k/10} \quad \text{if the } k\text{th antenna is being fed by spatial stream } j, \text{ or zero if it is not;}$$

G_k is the gain in dBi of the kth antenna .

$$\text{Directional Gain} = \text{Maximum} \left[10\log \left[\frac{\sum_{j=1}^{N_{ANT}} g_{j,k}}{N_{ANT}} \right] \right] \quad (2-4)$$

Maximum function is the max directional gain overall directions and all frequency all polarizations.

3.6 Test Procedure

The calculation method of DG (Directional Gain) in this scheme is summarized as follows:

- 1) The antenna anechoic chamber is used to measure the gain of each antenna, the gain of each antenna at this angle is taken every 15° to calculate the Directional Gain;
- 2) Use formula below to calculate and the DG_Nss=1 of the system at this angle is obtained

$$\text{Directional Gain} = 10\log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \quad (2-5)$$

- 3) Use formula below to calculate and the DG_Nssmax of the system at this angle is obtained

$$\text{Directional Gain} = 10\log\left[\frac{\sum_{j=1}^{N_{ANT}} g_{j,k}}{N_{ANT}}\right] \quad (2-6)$$

- 4) For each frequency point, the Directional Gain value under 24 different angles can be obtained, and finally the maximum value is taken as the system Directional Gain value.

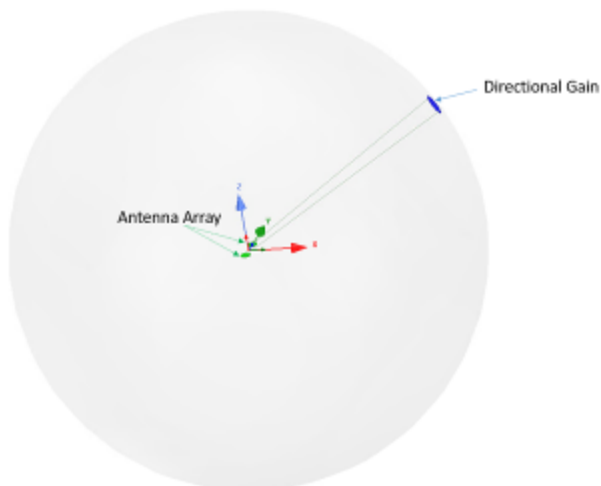


Figure 3-6 Directional Gain Calculation Sketch Map

4 Measured Value and Maximum Gain Positions

4.1 Antenna Number

The Antennas number for measured in the following section was shown below:

Table 4-1 Antennas number

Antenna Number	Antenna Position		
	2G	5G	6G
Ant1	Ant1	Ant1	Ant7
Ant2	Ant2	Ant2	Ant8
Ant3	Ant3	Ant3	Ant9
Ant4	Ant4	Ant4	Ant10
Ant5	Ant5	Ant5	Ant11
Ant6	Ant6	Ant6	Ant12

4.2 2G (ANT1+ANT2+ANT3+ANT4)

4.2.1 DG_1SS Max Value Position

Table 4-2 DG_1SS Max Value Position

Frequency(GHz)	2.40~2.50
Ant1(dBi)	2.96
Ant2(dBi)	-4.28
Ant3(dBi)	3.6
Ant4(dBi)	-1.53
Polarization	Theta
Φ (°)	300
θ (°)	75

4.2.2 DG_1SS Max Value Position Calculation

Table 4-3 DG_1SS Max Value Position Calculation

Frequency(GHz)	2.40~2.50
Ant1[$10^{(G/20)}$]	$10^{(2.96/20)}$
Ant2[$10^{(G/20)}$]	$10^{(-4.28/20)}$
Ant3[$10^{(G/20)}$]	$10^{(3.60/20)}$
Ant4[$10^{(G/20)}$]	$10^{(-1.53/20)}$
Ant1[$10^{(G/20)}$] value	1.406

Ant2[10^(G/20)] value	0.611
Ant3[10^(G/20)] value	1.514
Ant4[10^(G/20)] value	0.838
Sum of Ants Value(Antmax)	4.369
DG[10*Log(Antmax^2/Nant)] (dBi)	6.79

4.2.3 DG_NSSmax Max Value Position

Table 4-4 DG_NSSmax Max Value Position

Frequency(GHz)	2.40~2.50
Ant1(dBi)	-10.29
Ant2(dBi)	4.03
Ant3(dBi)	-4.11
Ant4(dBi)	4.62
Polarization	Theta
Φ (°)	105
θ (°)	90

4.2.4 DG_NSSmax Max Value Position Calculation

Table 4-5 DG_NSSmax Max Value Position Calculation

Frequency(GHz)	2.40~2.50
Ant1[10^(G/10)]	$10^{(-10.29/10)}$
Ant2[10^(G/10)]	$10^{(4.03/10)}$
Ant3[10^(G/10)]	$10^{(-4.11/10)}$
Ant4[10^(G/10)]	$10^{(4.62/10)}$
Ant1[10^(G/10)] value	0.094
Ant2[10^(G/10)] value	2.529
Ant3[10^(G/10)] value	0.388
Ant4[10^(G/10)] value	2.897
Sum of Ants Value(Antmax)	5.908
DG[10*Log ₁₀ (Antmax/Nant)] (dBi)	1.69

4.3 2G (ANT1+ANT2+ANT5+ANT6)

4.3.1 DG_1SS Max Value Position

Table 4-6 DG_1SS Max Value Position

Frequency(GHz)	2.40~2.50
Ant1(dBi)	-0.46

Ant2(dBi)	1.63
Ant3(dBi)	0.79
Ant4(dBi)	-0.22
Polarization	Phi
Φ (°)	0
θ (°)	90

4.3.2 DG_1SS Max Value Position Calculation

Table 4-7 DG_1SS Max Value Position Calculation

Frequency(GHz)	2.40~2.50
Ant1[10 ^{^(G/20)}]	10 ^{^(-0.46/20)}
Ant2[10 ^{^(G/20)}]	10 ^{^(1.63/20)}
Ant3[10 ^{^(G/20)}]	10 ^{^(0.79/20)}
Ant4[10 ^{^(G/20)}]	10 ^{^(-0.22/20)}
Ant1[10 ^{^(G/20)}] value	0.948
Ant2[10 ^{^(G/20)}] value	1.206
Ant3[10 ^{^(G/20)}] value	1.095
Ant4[10 ^{^(G/20)}] value	0.975
Sum of Ants Value(Antmax)	4.225
DG[10*Log(Antmax ² /Nant)] (dBi)	6.5

4.3.3 DG_NSSmax Max Value Position

Table 4-8 DG_NSSmax Max Value Position

Frequency(GHz)	2.40~2.50
Ant1(dBi)	-0.43
Ant2(dBi)	2.74
Ant3(dBi)	1.66
Ant4(dBi)	1.4
Polarization	Phi
Φ (°)	0
θ (°)	90

4.3.4 DG_NSSmax Max Value Position Calculation

Table 4-9 DG_NSSmax Max Value Position Calculation

Frequency(GHz)	2.40~2.50
Ant1[10 ^{^(G/10)}]	10 ^{^(-0.43/10)}
Ant2[10 ^{^(G/10)}]	10 ^{^(2.74/10)}

Ant3[10^{^(G/10)}]	10 ^{^(1.66/10)}
Ant4[10^{^(G/10)}]	10 ^{^(1.40/10)}
Ant1[10^{^(G/10)}] value	0.906
Ant2[10^{^(G/10)}] value	1.879
Ant3[10^{^(G/10)}] value	1.466
Ant4[10^{^(G/10)}] value	1.38
Sum of Ants Value(Antmax)	5.631
DG[10*Log₁₀(Antmax/Nant)] (dBi)	1.49

4.4 5G (ANT1+ANT2+ANT3+ANT4)

4.4.1 DG_1SS Max Value Position

Table 4-10 DG_1SS Max Value Position

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1(dBi)	-5.04	-5.04	-0.36	0.3
Ant2(dBi)	-4.53	-4.53	-3.52	-6.05
Ant3(dBi)	6.66	6.66	7.11	6.8
Ant4(dBi)	3.92	3.92	0.79	3.26
Polarization	Theta	Theta	Theta	Theta
Φ (°)	195	195	210	210
θ (°)	105	105	105	105

4.4.2 DG_1SS Max Value Position Calculation

Table 4-11 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1[10^{^(G/20)}]	10 ^{^(-5.04/20)}	10 ^{^(-5.04/20)}	10 ^{^(-0.36/20)}	10 ^{^(0.30/20)}
Ant2[10^{^(G/20)}]	10 ^{^(-4.53/20)}	10 ^{^(-4.53/20)}	10 ^{^(-3.52/20)}	10 ^{^(-6.05/20)}
Ant3[10^{^(G/20)}]	10 ^{^(6.66/20)}	10 ^{^(6.66/20)}	10 ^{^(7.11/20)}	10 ^{^(6.80/20)}
Ant4[10^{^(G/20)}]	10 ^{^(3.92/20)}	10 ^{^(3.92/20)}	10 ^{^(0.79/20)}	10 ^{^(3.26/20)}
Ant1[10^{^(G/20)}] value	0.56	0.56	0.959	1.035
Ant2[10^{^(G/20)}] value	0.594	0.594	0.667	0.498
Ant3[10^{^(G/20)}] value	2.153	2.153	2.267	2.188
Ant4[10^{^(G/20)}] value	1.57	1.57	1.095	1.455
Sum of Ants Value(Antmax)	4.877	4.877	4.989	5.177
DG[10*Log(Antmax²/Nant)] (dBi)	7.74	7.74	7.94	8.26

4.4.3 DG_NSSmax Max Value Position

Table 4-12 DG_NSSmax Max Value Position

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1(dBi)	-5.04	-5.04	8.38	0.17
Ant2(dBi)	-4.53	-4.53	-5.81	-6.18
Ant3(dBi)	6.66	6.66	-1.78	6.67
Ant4(dBi)	3.92	3.92	-7.54	3.13
Polarization	Theta	Theta	Theta	Theta
Φ (°)	195	195	315	210
θ (°)	105	105	90	105

4.4.4 DG_NSSmax Max Value Position Calculation

Table 4-13 DG_NSSmax Max Value Position Calculation

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1[10 ^{^(G/10)}]	10 ^{^(-5.04/10)}	10 ^{^(-5.04/10)}	10 ^{^(8.38/10)}	10 ^{^(0.17/10)}
Ant2[10 ^{^(G/10)}]	10 ^{^(-4.53/10)}	10 ^{^(-4.53/10)}	10 ^{^(-5.81/10)}	10 ^{^(-6.18/10)}
Ant3[10 ^{^(G/10)}]	10 ^{^(6.66/10)}	10 ^{^(6.66/10)}	10 ^{^(-1.78/10)}	10 ^{^(6.67/10)}
Ant4[10 ^{^(G/10)}]	10 ^{^(3.92/10)}	10 ^{^(3.92/10)}	10 ^{^(-7.54/10)}	10 ^{^(3.13/10)}
Ant1[10 ^{^(G/10)}] value	0.313	0.313	6.887	1.04
Ant2[10 ^{^(G/10)}] value	0.352	0.352	0.262	0.241
Ant3[10 ^{^(G/10)}] value	4.634	4.634	0.664	4.645
Ant4[10 ^{^(G/10)}] value	2.466	2.466	0.176	2.056
Sum of Ants Value(Antmax)	7.766	7.766	7.989	7.982
DG[10*Log ₁₀ (Antmax/Nant)] (dBi)	2.88	2.88	3	3

4.5 5G (ANT1+ANT2+ANT5+ANT6)

4.5.1 DG_1SS Max Value Position

Table 4-14 DG_1SS Max Value Position

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1(dBi)	1.45	1.45	0.04	-0.92
Ant2(dBi)	3.68	3.68	2.09	2.59
Ant3(dBi)	-0.97	-0.97	0.46	0.97
Ant4(dBi)	1.12	1.12	2.98	2.8
Polarization	Theta	Theta	Theta	Theta
Φ (°)	0	0	0	0

θ (°)	105	105	90	90
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4.5.2 DG_1SS Max Value Position Calculation

Table 4-15 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1[10 ^{^(G/20)}]	10 ^{^(1.45/20)}	10 ^{^(1.45/20)}	10 ^{^(0.04/20)}	10 ^{^(-0.92/20)}
Ant2[10 ^{^(G/20)}]	10 ^{^(3.68/20)}	10 ^{^(3.68/20)}	10 ^{^(2.09/20)}	10 ^{^(2.59/20)}
Ant3[10 ^{^(G/20)}]	10 ^{^(-0.97/20)}	10 ^{^(-0.97/20)}	10 ^{^(0.46/20)}	10 ^{^(0.97/20)}
Ant4[10 ^{^(G/20)}]	10 ^{^(1.12/20)}	10 ^{^(1.12/20)}	10 ^{^(2.98/20)}	10 ^{^(2.80/20)}
Ant1[10 ^{^(G/20)}] value	1.182	1.182	1.005	0.899
Ant2[10 ^{^(G/20)}] value	1.528	1.528	1.272	1.347
Ant3[10 ^{^(G/20)}] value	0.894	0.894	1.054	1.118
Ant4[10 ^{^(G/20)}] value	1.138	1.138	1.409	1.38
Sum of Ants Value(Antmax)	4.741	4.741	4.74	4.745
DG[10*Log(Antmax ² /Nant)] (dBi)	7.5	7.5	7.5	7.5

4.5.3 DG_NSSmax Max Value Position

Table 4-16 DG_NSSmax Max Value Position

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1(dBi)	2.32	2.32	7.6	-0.02
Ant2(dBi)	4.55	4.55	-6.59	3.49
Ant3(dBi)	-0.1	-0.1	-6.03	1.87
Ant4(dBi)	1.99	1.99	-0.49	3.7
Polarization	Theta	Theta	Theta	Theta
Φ (°)	0	0	315	0
θ (°)	105	105	90	90

4.5.4 DG_NSSmax Max Value Position Calculation

Table 4-17 DG_NSSmax Max Value Position Calculation

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1[10 ^{^(G/10)}]	10 ^{^(2.32/10)}	10 ^{^(2.32/10)}	10 ^{^(7.60/10)}	10 ^{^(-0.02/10)}
Ant2[10 ^{^(G/10)}]	10 ^{^(4.55/10)}	10 ^{^(4.55/10)}	10 ^{^(-6.59/10)}	10 ^{^(3.49/10)}
Ant3[10 ^{^(G/10)}]	10 ^{^(-0.10/10)}	10 ^{^(-0.10/10)}	10 ^{^(-6.03/10)}	10 ^{^(1.87/10)}
Ant4[10 ^{^(G/10)}]	10 ^{^(1.99/10)}	10 ^{^(1.99/10)}	10 ^{^(-0.49/10)}	10 ^{^(3.70/10)}
Ant1[10 ^{^(G/10)}] value	1.706	1.706	5.754	0.995
Ant2[10 ^{^(G/10)}] value	2.851	2.851	0.219	2.234

Ant3[10 ^{*(G/10)}] value	0.977	0.977	0.249	1.538
Ant4[10 ^{*(G/10)}] value	1.581	1.581	0.893	2.344
Sum of Ants Value(Antmax)	7.116	7.116	7.116	7.111
DG[10*Log ₁₀ (Antmax/Nant)] (dBi)	2.5	2.5	2.5	2.5

4.6 6G (ANT7+ANT8+ANT9+ANT10)

4.6.1 DG_1SS Max Value Position

Table 4-18 DG_1SS Max Value Position

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1(dBi)	4.69	3.79	3.31	0.78
Ant2(dBi)	-0.18	-2.24	-2.23	-5.92
Ant3(dBi)	1.71	2.2	0.31	4.7
Ant4(dBi)	-1.6	0.77	3.35	-0.81
Polarization	Theta	Theta	Theta	Theta
Φ (°)	75	75	30	180
θ (°)	75	90	90	75

4.6.2 DG_1SS Max Value Position Calculation

Table 4-19 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1[10 ^{*(G/20)}]	10 ^{^(4.69/20)}	10 ^{^(3.79/20)}	10 ^{^(3.31/20)}	10 ^{^(0.78/20)}
Ant2[10 ^{*(G/20)}]	10 ^{^(-0.18/20)}	10 ^{^(-2.24/20)}	10 ^{^(-2.23/20)}	10 ^{^(-5.92/20)}
Ant3[10 ^{*(G/20)}]	10 ^{^(1.71/20)}	10 ^{^(2.20/20)}	10 ^{^(0.31/20)}	10 ^{^(4.70/20)}
Ant4[10 ^{*(G/20)}]	10 ^{^(-1.60/20)}	10 ^{^(0.77/20)}	10 ^{^(3.35/20)}	10 ^{^(-0.81/20)}
Ant1[10 ^{*(G/20)}] value	1.716	1.547	1.464	1.094
Ant2[10 ^{*(G/20)}] value	0.979	0.773	0.774	0.506
Ant3[10 ^{*(G/20)}] value	1.218	1.288	1.036	1.718
Ant4[10 ^{*(G/20)}] value	0.832	1.093	1.471	0.911
Sum of Ants Value(Antmax)	4.745	4.701	4.744	4.229
DG[10*Log(Antmax ² /Nant)] (dBi)	7.5	7.42	7.5	6.5

4.6.3 DG_NSSmax Max Value Position

Table 4-20 DG_NSSmax Max Value Position

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
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Ant1(dBi)	5.37	0.24	3.64	1.11
Ant2(dBi)	0.1	1.13	0.33	-5.59
Ant3(dBi)	2.35	5.83	5.39	5.03
Ant4(dBi)	-3.99	-4.97	-5.74	-0.48
Polarization	Theta	Theta	Theta	Theta
Φ (°)	75	195	195	180
θ (°)	75	75	75	75

4.6.4 DG_NSSmax Max Value Position Calculation

Table 4-21 DG_NSSmax Max Value Position Calculation

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1[10 ^{^(G/10)}]	10 ^{^(5.37/10)}	10 ^{^(0.24/10)}	10 ^{^(3.64/10)}	10 ^{^(1.11/10)}
Ant2[10 ^{^(G/10)}]	10 ^{^(0.10/10)}	10 ^{^(1.13/10)}	10 ^{^(0.33/10)}	10 ^{^(-5.59/10)}
Ant3[10 ^{^(G/10)}]	10 ^{^(2.35/10)}	10 ^{^(5.83/10)}	10 ^{^(5.39/10)}	10 ^{^(5.03/10)}
Ant4[10 ^{^(G/10)}]	10 ^{^(-3.99/10)}	10 ^{^(-4.97/10)}	10 ^{^(-5.74/10)}	10 ^{^(-0.48/10)}
Ant1[10 ^{^(G/10)}] value	3.443	1.057	2.312	1.291
Ant2[10 ^{^(G/10)}] value	1.023	1.297	1.079	0.276
Ant3[10 ^{^(G/10)}] value	1.718	3.828	3.459	3.184
Ant4[10 ^{^(G/10)}] value	0.399	0.318	0.267	0.895
Sum of Ants Value(Antmax)	6.584	6.501	7.117	5.647
DG[10*Log ₁₀ (Antmax/Nant)] (dBi)	2.16	2.11	2.5	1.5

4.7 6G (ANT7+ANT8+ANT11+ANT12)

4.7.1 DG_1SS Max Value Position

Table 4-22 DG_1SS Max Value Position

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1(dBi)	-12.19	-7.59	-7	-2.97
Ant2(dBi)	-2.16	0.08	0.04	-7.95
Ant3(dBi)	7.53	6.4	4.6	2.81
Ant4(dBi)	7.1	5.87	4.7	5.13
Polarization	Phi	Phi	Phi	Phi
Φ (°)	0	0	0	15
θ (°)	165	165	165	165

4.7.2 DG_1SS Max Value Position Calculation

Table 4-23 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1[10 ^{^(G/20)}]	10 ^{^(-12.19/20)}	10 ^{^(-7.59/20)}	10 ^{^(-7.00/20)}	10 ^{^(-2.97/20)}
Ant2[10 ^{^(G/20)}]	10 ^{^(-2.16/20)}	10 ^{^(0.08/20)}	10 ^{^(0.04/20)}	10 ^{^(-7.95/20)}
Ant3[10 ^{^(G/20)}]	10 ^{^(7.53/20)}	10 ^{^(6.40/20)}	10 ^{^(4.60/20)}	10 ^{^(2.81/20)}
Ant4[10 ^{^(G/20)}]	10 ^{^(7.10/20)}	10 ^{^(5.87/20)}	10 ^{^(4.70/20)}	10 ^{^(5.13/20)}
Ant1[10 ^{^(G/20)}] value	0.246	0.417	0.447	0.71
Ant2[10 ^{^(G/20)}] value	0.78	1.009	1.005	0.4
Ant3[10 ^{^(G/20)}] value	2.38	2.089	1.698	1.382
Ant4[10 ^{^(G/20)}] value	2.265	1.966	1.718	1.805
Sum of Ants Value(Antmax)	5.67	5.482	4.867	4.298
DG[10*Log(Antmax ² /Nant)] (dBi)	9.05	8.76	7.73	6.64

4.7.3 DG_NSSmax Max Value Position

Table 4-24 DG_NSSmax Max Value Position

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1(dBi)	-12.19	-11.49	-15.58	-2.97
Ant2(dBi)	-2.16	-4.79	-3.35	-7.95
Ant3(dBi)	7.53	6.03	4.66	2.81
Ant4(dBi)	7.1	7.31	6.09	5.13
Polarization	Phi	Phi	Phi	Phi
Φ (°)	0	30	30	15
θ (°)	165	165	165	165

4.7.4 DG_NSSmax Max Value Position Calculation

Table 4-25 DG_NSSmax Max Value Position Calculation

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1[10 ^{^(G/10)}]	10 ^{^(-12.19/10)}	10 ^{^(-11.49/10)}	10 ^{^(-15.58/10)}	10 ^{^(-2.97/10)}
Ant2[10 ^{^(G/10)}]	10 ^{^(-2.16/10)}	10 ^{^(-4.79/10)}	10 ^{^(-3.35/10)}	10 ^{^(-7.95/10)}
Ant3[10 ^{^(G/10)}]	10 ^{^(7.53/10)}	10 ^{^(6.03/10)}	10 ^{^(4.66/10)}	10 ^{^(2.81/10)}
Ant4[10 ^{^(G/10)}]	10 ^{^(7.10/10)}	10 ^{^(7.31/10)}	10 ^{^(6.09/10)}	10 ^{^(5.13/10)}
Ant1[10 ^{^(G/10)}] value	0.06	0.071	0.028	0.505
Ant2[10 ^{^(G/10)}] value	0.608	0.332	0.462	0.16
Ant3[10 ^{^(G/10)}] value	5.662	4.009	2.924	1.91
Ant4[10 ^{^(G/10)}] value	5.129	5.383	4.064	3.258

Sum of Ants Value(Antmax)	11.46	9.794	7.479	5.833
DG[10*Log ₁₀ (Antmax/Nant)] (dBi)	4.57	3.89	2.72	1.64

5 Test and Calculate Result

5.1 Peak Antenna Gain (Single)

Table 5-1 Antenna Test Result

Frequency Band(MHz)	Ant1	Ant2	Ant3	Ant4	Ant5	Ant6
2400-2500	4.20dBi	4.03dBi	3.68dBi	4.86dBi	4.53dBi	3.84dBi
5150-5250	7.90dBi	7.67dBi	7.93dBi	7.87dBi	3.97dBi	5.52dBi
5250-5350	7.84dBi	7.01dBi	7.90dBi	8.20dBi	3.97dBi	5.49dBi
5470-5725	8.50dBi	6.51dBi	7.81dBi	8.26dBi	5.20dBi	4.98dBi
5725-5925	7.23dBi	7.00dBi	7.11dBi	6.76dBi	5.12dBi	4.96dBi
5925-6425	6.19dBi	5.47dBi	5.98dBi	4.66dBi	9.51dBi	8.63dBi
6425-6525	6.28dBi	5.47dBi	5.98dBi	4.42dBi	7.99dBi	7.58dBi
6525-6875	6.50dBi	4.74dBi	5.93dBi	4.69dBi	7.24dBi	6.47dBi
6875-7125	6.17dBi	3.84dBi	6.11dBi	4.33dBi	4.98dBi	7.36dBi

5.2 DG_1SS Calculate Result (ANT1/2/3/4 & ANT7/8/9/10)

Table 5-2 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/Φ (°) / θ (°)
2400-2450	6.79dBi	Theta/300/75
5150-5250	7.74dBi	Theta/195/105
5250-5350	7.74dBi	Theta/195/105
5470-5725	7.94dBi	Theta/210/105
5725-5925	8.26dBi	Theta/210/105
5925-6425	7.5dBi	Theta/75/75
6425-6525	7.5dBi	Theta/75/90
6525-6875	7.5dBi	Theta/30/90
6875-7125	6.5dBi	Theta/180/75

5.3 DG_1SS Calculate Result (ANT1/2/5/6 & ANT7/8/11/12)

Table 5-3 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
2400-2450	6.5dBi	Phi/0/90
5150-5250	7.5dBi	Theta/0/105
5250-5350	7.5dBi	Theta/0/105
5470-5725	7.5dBi	Theta/0/90
5725-5925	7.5dBi	Theta/0/90
5925-6425	9.05dBi	Phi/0/165
6425-6525	8.76dBi	Phi/0/165
6525-6875	7.73dBi	Phi/0/165
6875-7125	6.64dBi	Phi/15/165

5.4 DG_NSSmax Calculate Result (ANT1/2/3/4 & ANT7/8/9/10)

Table 5-4 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
2400-2450	1.69dBi	Theta/105/90
5150-5250	2.88dBi	Theta/195/105
5250-5350	2.88dBi	Theta/195/105
5470-5725	3.12dBi	Theta/315/90
5725-5925	3.13dBi	Theta/210/105
5925-6425	2.16dBi	Theta/75/75
6425-6525	2.11dBi	Theta/195/75
6525-6875	2.71dBi	Theta/195/75
6875-7125	1.5dBi	Theta/180/75

5.5 DG_NSSmax Calculate Result (ANT1/2/5/6 & ANT7/8/11/12)

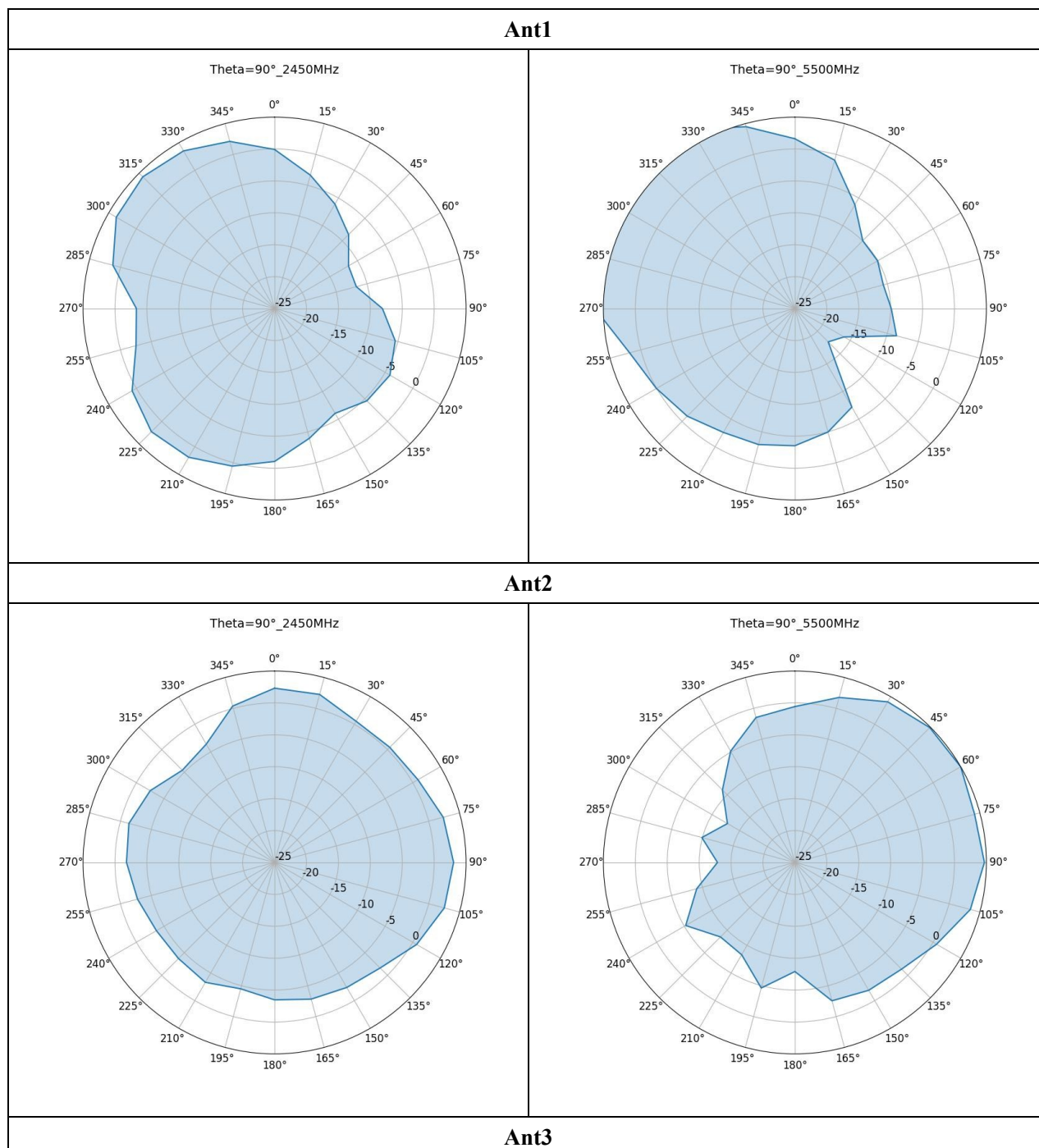
Table 5-5 Test & Calculate Result

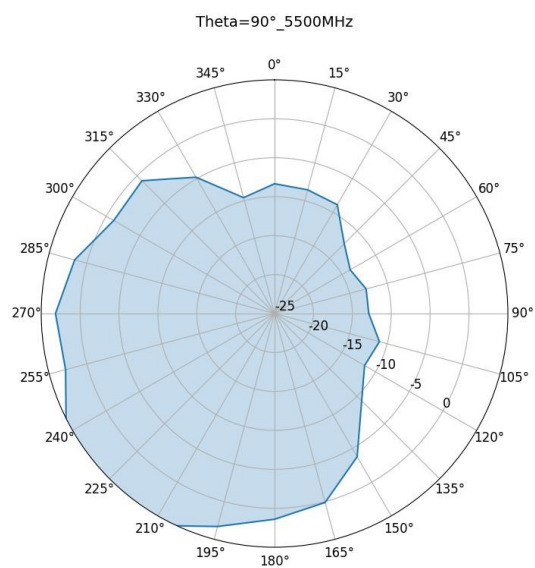
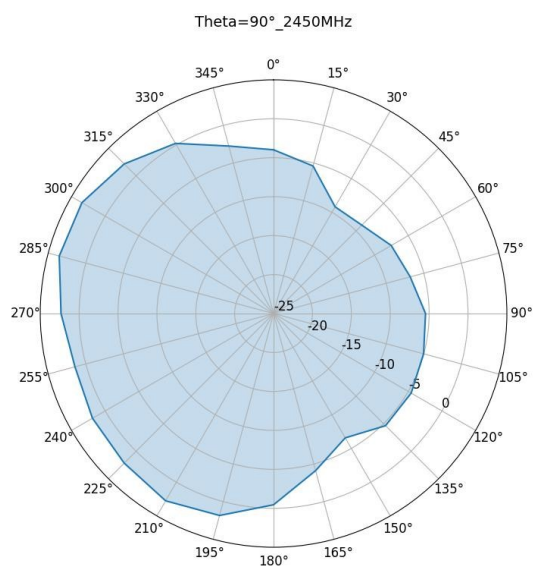
Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
2400-2450	1.49dBi	Phi/0/90
5150-5250	2.5dBi	Theta/0/105
5250-5350	2.5dBi	Theta/0/105
5470-5725	2.5dBi	Theta/315/90
5725-5925	2.5dBi	Theta/0/90
5925-6425	4.57dBi	Phi/0/165
6425-6525	3.89dBi	Phi/30/165

6525-6875	2.72dBi	Phi/30/165
6875-7125	1.64dBi	Phi/15/165

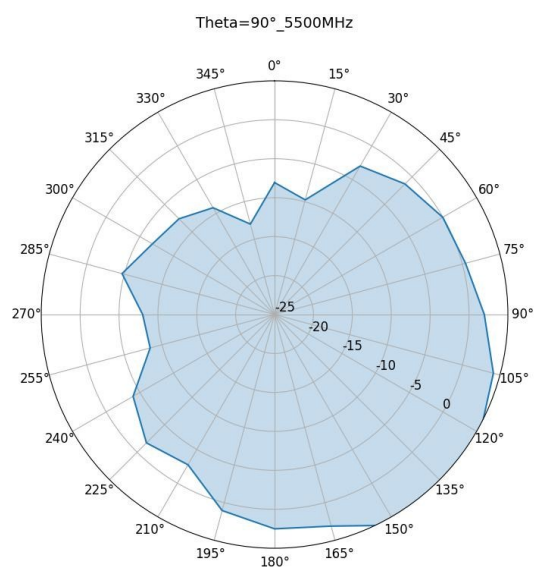
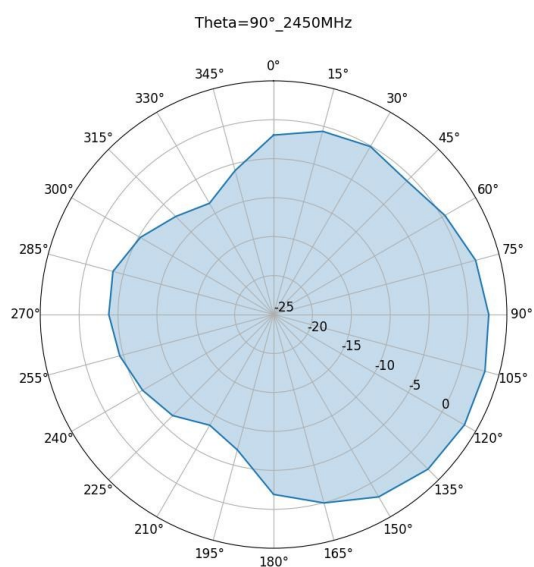
6 Test Pattern

6.1 Antenna Pattern

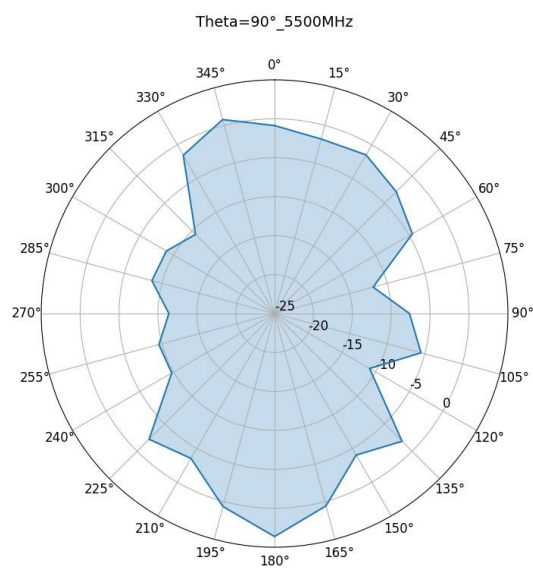
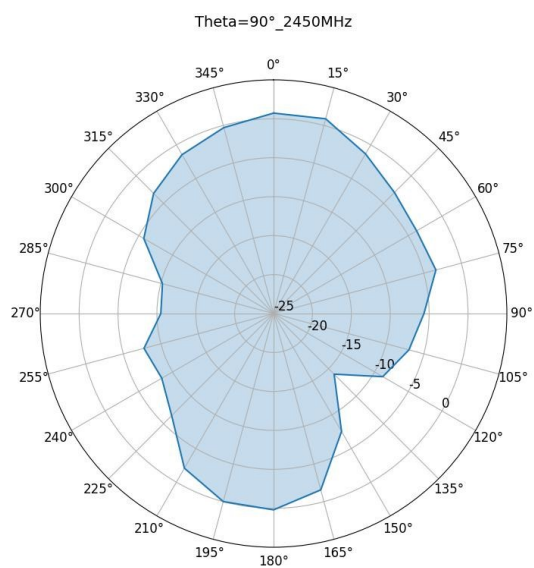




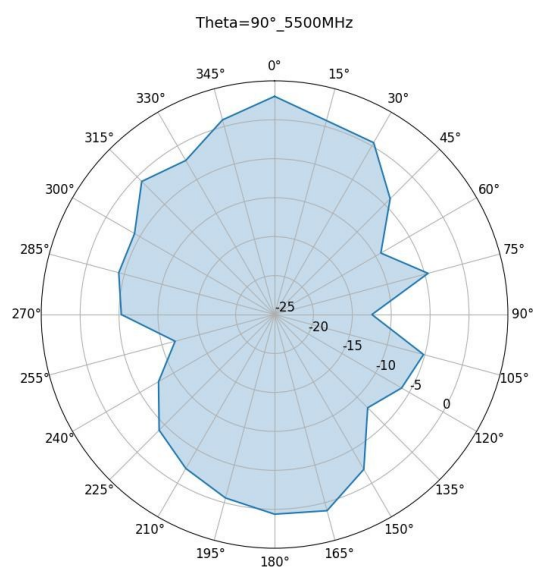
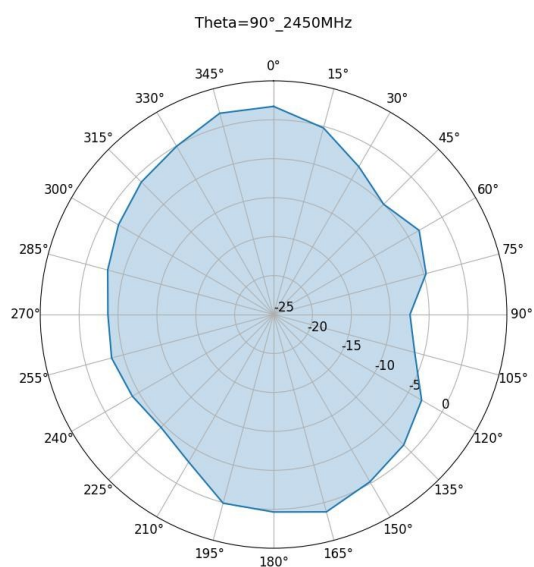
Ant4



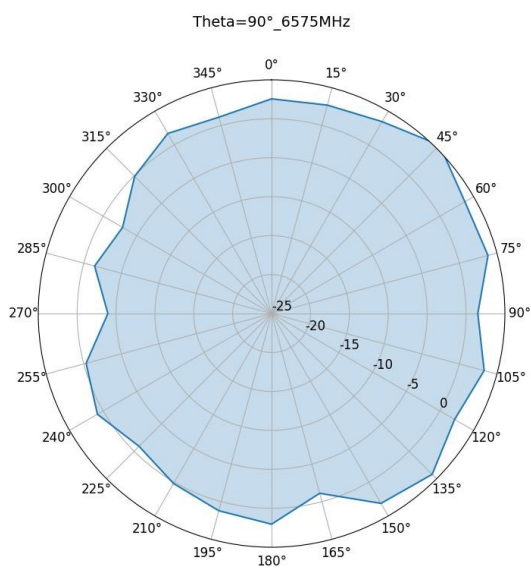
Ant5



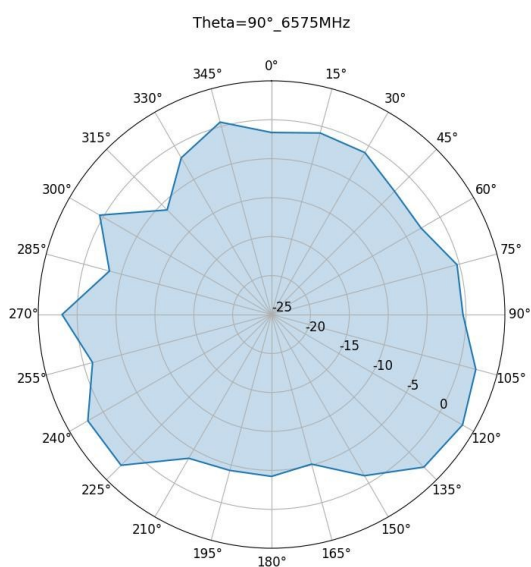
Ant6



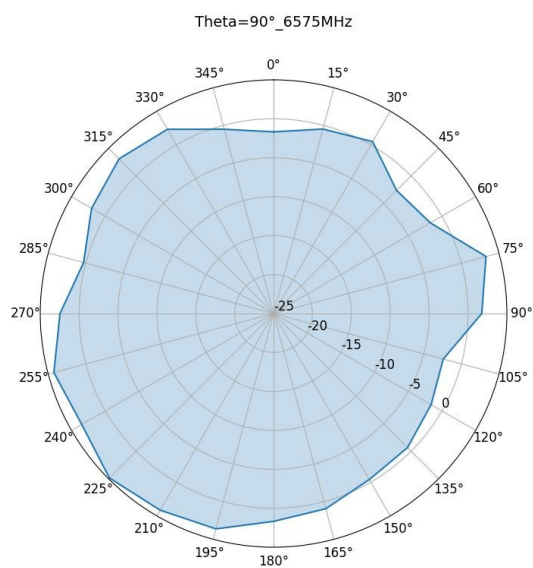
Ant7



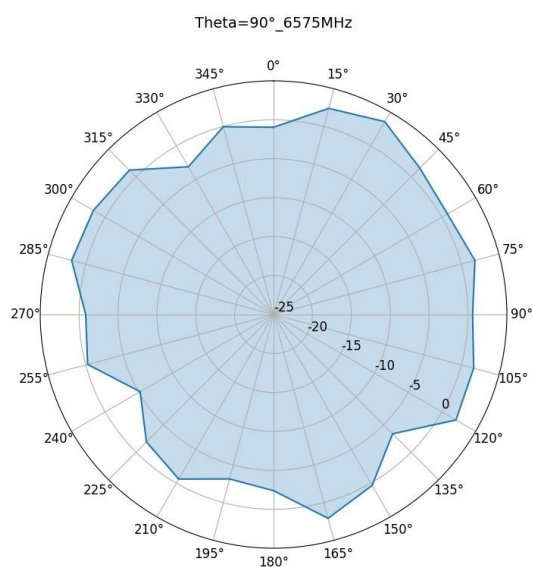
Ant8



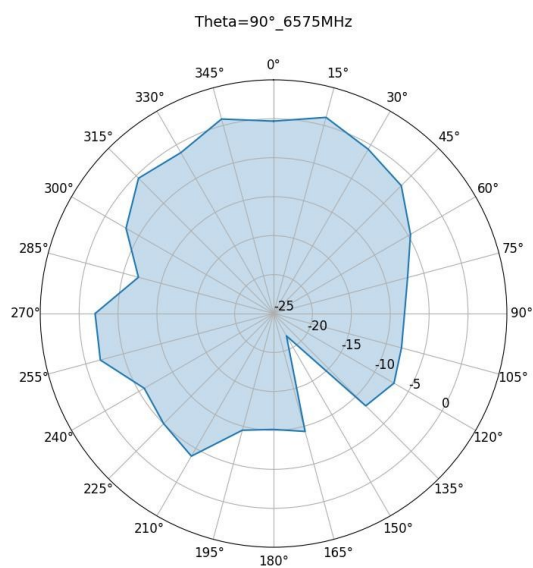
Ant9



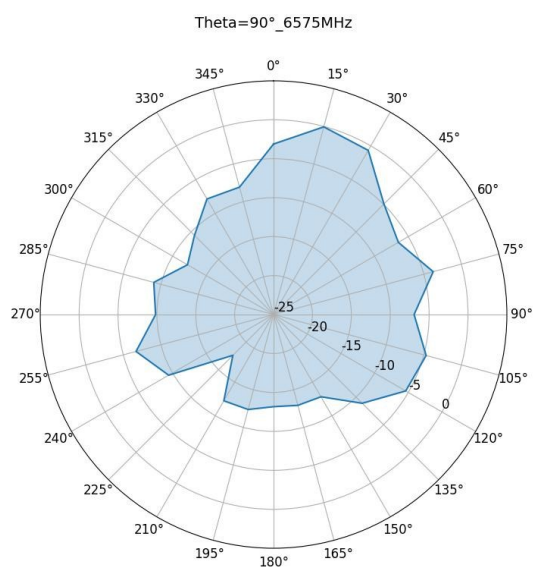
Ant10



Ant11



Ant12



7 Test Pattern

7.1 DG_1SS Test Data (ANT1/2/3/4 & ANT7/8/9/10)

Ant1													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.55	-8.48	-5.16	-4.78	-4.33	-0.28	-0.07	-1.26	-2.25	-4.48	-10.05	-7.52	-11.16
15	-7.7	-8.7	-5.25	-6.39	-9.07	-2.35	-3.35	-3.77	-4.44	-5.21	-11.39	-7.79	-11.16
30	-7.79	-9.14	-4.84	-5.67	-18.9	-6.03	-6.09	-5.94	-6.37	-6.32	-10.39	-8.05	-11.16
45	-7.8	-9.92	-5.02	-4.56	-10.99	-15.42	-8.6	-7.99	-6.22	-9.27	-9.08	-8.52	-11.16
60	-7.59	-10.83	-6.61	-4.94	-7.01	-17.95	-11.63	-8.84	-6.23	-10.94	-8.41	-9.5	-11.16
75	-7.31	-11.23	-9.99	-7.52	-6.07	-11.74	-11.74	-10.76	-7.48	-7.98	-9.3	-10.83	-11.16
90	-7.44	-11.02	-14.18	-10.31	-8.98	-10.53	-8.1	-17.5	-9.51	-9.01	-10.03	-11.16	-11.16
105	-7.44	-10.39	-12.61	-10.36	-15.93	-10.64	-5.43	-9.53	-15.46	-9.51	-8.45	-9.58	-11.16
120	-7.49	-9.45	-10.33	-7.86	-9.82	-8.16	-4.13	-5.32	-11.6	-8.15	-6.43	-8.39	-11.16
135	-7.48	-8.46	-8.62	-4.62	-4.62	-5.98	-4.55	-4.93	-8.61	-6.77	-5.97	-8.05	-11.16
150	-7.51	-7.67	-6.95	-2.39	-2.29	-3.53	-6.04	-6.83	-8.17	-6.18	-5.91	-8.24	-11.16
165	-7.58	-7.02	-5.62	-1.26	-0.63	-1.21	-3.95	-5.78	-9.06	-6	-6.38	-8.88	-11.16
180	-7.57	-6.56	-5.1	-0.63	0.27	0.55	-1.04	-3.92	-5.12	-7.83	-7.71	-9.16	-11.16
195	-7.58	-6.29	-5.02	-0.65	0.92	1.57	0.56	-0.76	-3.89	-6.9	-7.61	-7.97	-11.16
210	-7.41	-6.1	-4.95	-1.01	1.16	1.53	1.91	0.61	-2.52	-5.79	-8.49	-6.42	-11.16
225	-7.25	-5.98	-4.55	-1.18	0.59	1.37	2.29	0.94	-2.44	-6.54	-8.67	-5.51	-11.16
240	-7.29	-6.05	-4.04	-2.12	-0.99	0.95	0.77	-0.39	-3.7	-5.51	-6.38	-4.92	-11.16
255	-7.5	-6.09	-3.65	-3.34	-3.86	-1.63	-2.52	-2.47	-3.77	-3.24	-5.51	-4.63	-11.16
270	-7.69	-6.22	-3.32	-2.48	-4.79	-3.86	-3.35	-0.39	-1.3	-1.84	-5.81	-4.63	-11.16
285	-7.85	-6.33	-3.19	-0.43	-1.47	-0.01	1.23	2.25	0.09	-1.29	-6.11	-4.99	-11.16
300	-7.71	-6.53	-3.13	0.53	0.56	2.96	3.64	3.29	0.04	-2.25	-6.93	-5.64	-11.16
315	-7.55	-6.82	-2.93	-0.07	1.26	3.74	4.2	3.52	-0.87	-3.54	-8.04	-6.29	-11.16
330	-7.36	-7.27	-3.13	-1.05	0.25	3.29	3.53	2.87	-0.97	-4.71	-8.5	-6.77	-11.16
345	-7.23	-7.55	-4.09	-2.18	-1.77	1.78	2.12	1.34	-1.56	-4.14	-8.69	-7.16	-11.16

Ant2													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.11	-5.64	-2.33	-2.23	-4.47	-0.01	2.31	1.85	-2.38	-4.64	-7.5	-9.81	-9.89
15	-9.07	-6.12	-2.91	-3.21	-5.25	-0.02	2.26	1.1	-2.7	-5.97	-8.53	-8.29	-9.89
30	-9.14	-6.9	-3.83	-4.33	-4.47	0.28	0.55	-0.35	-2.96	-6.34	-7.75	-6.38	-9.89
45	-9.19	-7.99	-4.29	-2.5	-2.39	0.08	0.52	-1.23	-2	-5.21	-6.34	-5.39	-9.89
60	-9.08	-9.29	-4.18	-0.49	-0.88	1.11	0.94	0.64	-0.53	-4.92	-6.29	-5.28	-9.89
75	-8.95	-10.74	-4.5	-0.23	-0.08	1.69	2.36	2.66	0.68	-4.26	-7.68	-5.41	-9.89
90	-8.95	-11.66	-6	-1.58	-0.33	1.83	3.05	3.56	1.42	-3.56	-8.69	-5.17	-9.89
105	-9.04	-11.1	-8.51	-4.19	-1.36	1.23	2.53	3.15	1.54	-2.64	-7.78	-4.94	-9.89
120	-9.17	-9.57	-8.66	-5.48	-2.61	-0.57	0.7	2.31	1.58	-1.81	-6.68	-5.75	-9.89
135	-9.32	-7.9	-6.38	-4.53	-4.69	-4.53	-1.61	1.93	0.83	-2.17	-6.87	-8.15	-9.89
150	-9.43	-6.78	-5.06	-4.61	-7.6	-9.34	-2.38	0.61	-1.2	-5.74	-8.93	-9.89	-9.89
165	-9.33	-6.19	-4.99	-6.63	-9.12	-5.77	-2.83	-2.16	-6.08	-10.59	-11.01	-9.25	-9.89
180	-9.21	-6.06	-5.97	-10.73	-7.1	-3.81	-3.47	-5.26	-9.54	-9.55	-8.35	-8.38	-9.89
195	-9.14	-6.51	-7.79	-12.6	-5.84	-2.7	-4.5	-5.61	-6.93	-5.98	-7.52	-7.6	-9.89
210	-9.19	-7.23	-9.84	-11.57	-5.71	-2.68	-3.31	-4.88	-5.19	-5.78	-5.64	-6.57	-9.89
225	-9.37	-8.02	-11.69	-10.61	-5.78	-3.26	-3.71	-2.38	-6.4	-8.01	-5.15	-5.6	-9.89
240	-9.65	-8.94	-13.22	-10.81	-5.86	-3.64	-3.62	-2.22	-7.5	-11.67	-6.06	-4.47	-9.89
255	-9.67	-9.59	-14.47	-11.44	-5.99	-2.9	-2.77	-2.67	-7.65	-13.77	-6.46	-3.46	-9.89
270	-9.38	-9.59	-14.54	-13.37	-6.58	-2.12	-1.8	-1.85	-6.17	-8.67	-5.52	-3.21	-9.89
285	-9.18	-8.85	-12.04	-15.91	-8.36	-2.71	-1.37	-1.36	-4.6	-5.71	-3.88	-3.39	-9.89
300	-9.15	-7.72	-8.36	-9.94	-10.56	-4.28	-2.5	-2.18	-4.44	-4.85	-3.25	-3.8	-9.89
315	-9.24	-6.7	-5.15	-5.48	-9.12	-7.14	-4.56	-3.11	-4.84	-3.69	-4.03	-4.77	-9.89
330	-9.28	-5.88	-3.22	-2.69	-6.33	-6.15	-3.59	-2.18	-4.47	-2.8	-4.62	-6.59	-9.89
345	-9.26	-5.49	-2.43	-1.71	-4.56	-1.98	0.37	0.35	-2.71	-3.69	-5.57	-8.74	-9.89

Ant3													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-1.94	-2.54	-1.43	-1.63	-3.66	-2.9	-3.98	-7.94	-13.35	-8.42	-4.64	-4.21	-11.83
15	-1.82	-2.93	-2.88	-2.75	-4.35	-5.57	-5.39	-9.92	-11.63	-7.66	-3.86	-3.99	-11.83
30	-1.82	-3.25	-4.15	-4.02	-4.79	-7.05	-9.18	-9.41	-19.24	-6.99	-3.7	-4.17	-11.83
45	-1.89	-3.48	-4.66	-5.25	-5.41	-7.29	-8.95	-10.33	-9.71	-7.56	-5.2	-5.46	-11.83
60	-2.04	-3.72	-4.69	-5.32	-7.49	-7.38	-7.53	-7.54	-6.91	-5.11	-6.06	-8.01	-11.83
75	-2.17	-3.82	-4.46	-4.69	-10.82	-7.63	-6.81	-7.31	-4.76	-2.6	-5.97	-10.51	-11.83
90	-2.12	-3.88	-4.52	-4.53	-12.2	-9.28	-5.46	-10.43	-2.54	-1.95	-6.7	-11.65	-11.83
105	-1.93	-3.87	-4.62	-4.58	-13.17	-9.01	-5.03	-13.39	-2.81	-2.29	-7.3	-11.83	-11.83
120	-1.86	-3.67	-4.51	-4.62	-12.32	-6.53	-4.57	-14.33	-6.2	-4.8	-6.83	-8.76	-11.83
135	-1.84	-3.4	-4.12	-3.93	-7.17	-4.87	-4.64	-10.31	-12.9	-11.69	-6.92	-5.68	-11.83
150	-1.92	-3.08	-3.49	-2.62	-4.85	-4.64	-6.57	-5.26	-8.1	-14.18	-8.5	-4.4	-11.83
165	-2.13	-2.83	-2.58	-1.99	-3.8	-5.1	-4.12	-2.16	-2.85	-8.38	-9.72	-4.27	-11.83
180	-2.22	-2.51	-1.67	-1.8	-3.93	-2.7	-0.45	0.27	-0.59	-4.63	-9.99	-5.11	-11.83
195	-2.11	-2.14	-1.03	-1.71	-3.83	-0.69	1.84	2.04	-0.28	-1.23	-6.97	-5.86	-11.83
210	-2.02	-1.95	-0.4	-1.54	-3.56	0.49	2.76	2.46	1.1	-0.54	-6.48	-5.59	-11.83
225	-1.94	-1.77	0.4	-0.93	-2.11	1.35	2.16	2.83	1.61	0.47	-4.46	-5.17	-11.83
240	-1.88	-1.67	1.11	0.5	-0.81	0.15	1.89	2.79	2.24	1.29	-4.29	-5.04	-11.83
255	-1.94	-1.63	1.47	1.38	-0.12	1.09	1.44	3.12	2.41	0.63	-5.25	-4.81	-11.83
270	-2.03	-1.7	1.32	1.25	1.3	2.74	2.33	3.4	1.48	-0.15	-5.01	-4.05	-11.83
285	-2	-1.74	0.85	0.75	2.26	3.68	3.53	2.4	0.52	-0.49	-4.23	-3.69	-11.83
300	-1.98	-1.79	0.12	0.67	2.02	3.6	3.46	1.29	-0.9	-1.1	-3.58	-3.71	-11.83
315	-1.98	-1.84	-0.3	0.47	1.12	2.46	2.16	-0.32	-3.3	-2.86	-3.07	-3.93	-11.83
330	-1.99	-1.93	-0.36	-0.28	0.29	0.41	0.22	-4.46	-5.29	-6.26	-3.62	-4.09	-11.83
345	-1.97	-2.16	-0.56	-0.9	-1.6	-0.96	-2.74	-6.42	-11.74	-6.97	-4.79	-4.16	-11.83

Ant4													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.2	-6.21	-4.01	-4.68	-7.37	-8.05	-1.96	-2.91	-8.33	-22.54	-15.96	-9.79	-13.48
15	-9.77	-5.72	-2.66	-1.66	-3.18	-3.92	-0.65	-1.5	-5.92	-10.46	-12.71	-6.75	-13.48
30	-9.59	-5.74	-2.23	-0.28	-1.25	-1.97	-0.1	-0.73	-2.96	-4.03	-8.74	-5.5	-13.48
45	-9.77	-6.22	-2.56	-0.59	-1.26	-0.56	-0.75	1.01	-0.82	-2.97	-7.46	-5.66	-13.48
60	-10.08	-7.1	-3.42	-2.08	-2.44	-0.23	0.44	1.59	0.96	-2.42	-8.92	-6.51	-13.48
75	-10.27	-8.09	-4.13	-3.79	-3.82	-0.27	1.9	2.84	1.01	-1.77	-11.36	-7.05	-13.48
90	-10.33	-8.66	-4.26	-4.44	-5.32	0.22	2.67	3.24	0.56	-1.84	-9.02	-7.58	-13.48
105	-10.26	-8.56	-3.7	-3.56	-5.64	0.52	3.14	2.57	-0.22	-1.7	-6.9	-7.97	-13.48
120	-10.27	-7.92	-3.2	-2.43	-4.69	0.73	3.34	1.85	-0.97	-1.84	-5.67	-8.13	-13.48
135	-10.12	-7.22	-2.92	-1.94	-4.11	0.64	3.08	1.79	-0.6	-2.26	-5.56	-10.41	-13.48
150	-9.72	-6.67	-2.84	-2.01	-4.06	-0.38	2.03	2.08	0.53	-2.23	-6.99	-13.48	-13.48
165	-9.42	-6.35	-2.91	-2.45	-4.28	-2.9	0.04	2.4	0.74	-1.56	-8.09	-10.8	-13.48
180	-9.5	-6.38	-3.45	-2.95	-4.11	-3.52	-1.91	0.71	1	-1.95	-6.4	-7.75	-13.48
195	-9.91	-6.61	-4.2	-3.71	-4.1	-3.45	-7.01	-1.29	-0.76	-1.64	-5.09	-4.86	-13.48
210	-10.41	-6.94	-5.23	-7.42	-6.68	-6.02	-8.59	-3.25	-3.49	-2.09	-4.12	-2.54	-13.48
225	-10.48	-7.36	-7.06	-13.66	-11.26	-5.77	-6.65	-4.6	-5.17	-4.16	-2.38	-1.17	-13.48
240	-10.1	-7.86	-8.16	-6.97	-10.29	-5.57	-5.55	-4.7	-7.68	-4.77	-1.71	-0.85	-13.48
255	-9.6	-8.34	-7.16	-3.07	-5.5	-4.63	-4.52	-7.42	-9.88	-4.62	-1.83	-0.95	-13.48
270	-9.39	-8.73	-6.2	-1.73	-3.52	-1.93	-3.81	-6.8	-9.4	-4.66	-1.96	-1.34	-13.48
285	-9.46	-9.09	-6.41	-2.39	-3.25	-1.33	-3.62	-5.09	-7.73	-5.4	-2.17	-2.19	-13.48
300	-9.71	-9.31	-8.24	-4.68	-3.04	-1.53	-5.21	-4.32	-6.08	-5.38	-3.05	-3.58	-13.48
315	-10.09	-8.91	-10.65	-8.15	-2.24	-1.87	-7.2	-5.87	-4.97	-5.76	-5.39	-5.79	-13.48
330	-10.51	-8.01	-9.71	-10.54	-4.37	-2.66	-8.51	-8.67	-5.32	-6.96	-8.7	-8.98	-13.48
345	-10.49	-6.97	-6.43	-9.63	-8.38	-6.82	-5.87	-3.44	-8.74	-14.16	-12.43	-11.72	-13.48

Composite Gain													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.54	0.57	2.91	2.81	1.17	3.75	5.41	4.13	0.55	-1.74	-2.61	-1.49	-5.47
15	-0.45	0.39	2.66	2.69	0.82	3.3	4.72	3.36	0.43	-1.08	-2.4	-0.52	-5.47
30	-0.45	0.02	2.31	2.69	0.64	2.84	3.22	2.68	0.05	0.18	-1.26	0.11	-5.47
45	-0.52	-0.55	1.94	2.99	1.74	2.1	2.63	2.59	2.01	0.1	-0.88	-0.14	-5.47
60	-0.57	-1.29	1.37	3.05	2.03	2.49	3.07	3.69	3.51	0.68	-1.31	-1.16	-5.47
75	-0.57	-1.92	0.56	2.36	1.66	3.1	4.28	4.78	4.1	2.17	-2.33	-2.12	-5.47
90	-0.59	-2.21	-0.43	1.33	0.45	3.23	5.36	4.59	4.42	2.37	-2.5	-2.46	-5.47
105	-0.51	-1.97	-0.68	0.73	-1.13	3.11	5.73	4.43	3.7	2.49	-1.57	-2.19	-5.47
120	-0.52	-1.28	-0.17	1.14	-0.5	3.19	5.5	4.29	3.07	2.24	-0.37	-1.65	-5.47
135	-0.51	-0.48	0.78	2.34	0.95	2.74	4.7	4.48	2.38	1.1	-0.29	-1.89	-5.47
150	-0.5	0.16	1.58	3.17	1.53	2.11	3.5	4.47	2.66	-0.1	-1.48	-2.37	-5.47
165	-0.54	0.58	2.09	3.17	2.06	2.47	3.47	4.59	2.47	0.06	-2.6	-1.91	-5.47
180	-0.56	0.81	2.13	2.75	2.71	3.83	4.38	4.35	3.36	0.53	-2	-1.44	-5.47
195	-0.58	0.85	1.85	2.4	3.2	4.93	4.47	5.03	3.45	2.44	-0.72	-0.46	-5.47
210	-0.6	0.75	1.55	1.65	2.89	4.82	5.28	5.24	3.81	2.78	-0.02	0.9	-5.47
225	-0.57	0.6	1.38	1.11	2.42	4.96	5.35	5.69	3.49	2.09	1.14	1.87	-5.47
240	-0.54	0.36	1.49	2.21	2.34	4.4	4.92	5.32	2.87	2.04	1.62	2.38	-5.47
255	-0.53	0.17	1.83	2.99	2.48	4.26	4.22	4.47	2.62	2.13	1.45	2.7	-5.47
270	-0.52	0.04	2.02	3.35	3.15	5.1	4.72	5.34	3.16	2.75	1.59	2.8	-5.47
285	-0.52	0.06	2.02	3.41	4.11	6.27	6.38	6.08	3.73	3.11	2.03	2.51	-5.47
300	-0.52	0.17	1.87	3.65	4.43	6.79	6.67	6.04	3.53	2.81	1.95	1.88	-5.47
315	-0.57	0.37	2.03	3.44	4.65	6.26	5.87	5.28	2.69	2.12	1.08	0.87	-5.47
330	-0.6	0.59	2.52	3.18	3.95	5.43	5.02	3.91	2.2	0.99	-0.04	-0.41	-5.47
345	-0.56	0.74	2.91	3.02	2.35	4.54	5	4.5	0.8	-0.36	-1.36	-1.5	-5.47

Ant1													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.35	-17.42	-7.58	-10.83	-6.45	1.63	3.18	3.86	1.15	0.87	-0.69	-2.99	-15.99
15	-5.3	-17.15	-7.44	-7.95	-12.36	-2.87	-1.02	2.15	-0.78	-0.14	-3.98	-2.22	-15.99
30	-5.36	-14.26	-7.48	-8.38	-12.4	-4.34	-4.06	-2.46	-3.49	-4.09	-5.9	-2.13	-15.99
45	-5.51	-11.72	-9.9	-5.77	-17.03	-8.91	-6.29	-6.71	-9.63	-9	-8.45	-3.05	-15.99
60	-5.49	-10.14	-12.12	-7.92	-12.44	-12.43	-14.04	-7.95	-8.78	-8.83	-8.39	-4.53	-15.99
75	-5.24	-8.81	-11.04	-8.61	-13.58	-15.25	-13.4	-12.07	-9.08	-9.66	-10.29	-4.82	-15.99
90	-5.41	-7.73	-7.94	-5.13	-8.29	-8.57	-9.2	-12.16	-9.94	-12.26	-17.21	-4.31	-15.99
105	-5.23	-6.91	-7.07	-3.77	-8.87	-7.4	-7.88	-9.39	-13.58	-9.21	-12.83	-4.79	-15.99
120	-5.12	-6.58	-8.03	-6.94	-11.36	-12.35	-9.04	-12.91	-14.96	-5.34	-15.04	-6.41	-15.99
135	-5.23	-6.84	-10.77	-13.09	-17.98	-10.66	-20.47	-19.72	-10.66	-5.54	-10.62	-12.62	-15.99
150	-5.41	-7.59	-11.63	-15.37	-8.96	-10.08	-8.43	-12.25	-13.69	-3.14	-4.91	-15.99	-15.99
165	-5.54	-7.99	-9.61	-14.48	-5.59	-12.37	-3.98	-12.66	-4.47	-0.87	-3.38	-11.06	-15.99
180	-5.3	-7.18	-6.3	-13.12	-6.79	-10.84	-5.6	-5.34	-2.07	-0.72	-3.11	-7.46	-15.99
195	-5.21	-6.39	-4.7	-10.84	-2.21	-7.04	-4.8	-5.04	-1.56	-0.14	-3.13	-5.51	-15.99
210	-4.85	-5.54	-3.25	-8.99	-1.72	-3.07	-3.55	-4.9	-0.02	1.76	-2.29	-3.02	-15.99
225	-4.94	-5.2	-1.99	-2.63	-3.68	0.25	-3.52	-4.59	-0.94	1.38	-2	-2.09	-15.99
240	-5	-5.02	-1.52	0.57	-7.81	0.55	1.36	0.6	-4.7	-4.28	-3.18	-2.92	-15.99
255	-5.28	-5.19	-1.61	1.55	-2.32	0.16	2.55	3.54	0.32	-2.39	1.09	-0.99	-15.99
270	-5.24	-5.72	-3.45	0.79	-0.83	2.44	4.57	3.09	0.5	-3.27	-1.18	0.7	-15.99
285	-5.28	-6.96	-9.56	-5.17	-3.6	3.17	6.8	5.09	-1.96	0.56	-2.78	1.2	-15.99
300	-5.07	-9.12	-13.35	-8.49	-2.4	3.99	6.4	6.39	-0.05	0.38	-4.65	0.59	-15.99
315	-5.2	-11.93	-7.71	-6.8	-1.72	5.04	7.25	6.65	2.45	1.25	-3.63	-0.66	-15.99
330	-5.07	-14.21	-6.5	-5.93	-1.1	4.89	7.84	6.59	3.78	2.72	-0.96	-2.08	-15.99
345	-5	-14.59	-6.84	-9.84	-2.52	3.79	5.97	5.45	3.39	2.67	-0.73	-3.48	-15.99

Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.86	-6.09	-6.11	-7.56	-3.03	-1.83	0.06	6.09	3.05	-0.93	-2.11	-2.78	-14.11
15	-4.81	-5.23	-6.22	-4.67	-5.21	-1.85	4.87	7.01	2.74	1.63	-0.43	-2.23	-14.11
30	-4.52	-4.72	-6.63	-3.44	-5.14	1.52	6.77	6.9	2.6	2.39	-0.35	-1.25	-14.11
45	-4.34	-4.68	-7.96	-2.73	-2.08	5.07	6.98	6.29	3.07	1.12	-1.18	-0.87	-14.11
60	-4.38	-4.86	-10.18	-4.11	-0.99	6.07	6.24	5.53	2.34	-2.71	-4.11	-1.19	-14.11
75	-4.6	-5.03	-9.05	-3.17	-1.99	5.68	5.21	4.63	1.72	-4.84	-5.82	-1.99	-14.11
90	-5.02	-5.24	-7.8	-2.57	-0.72	3.99	3.92	3.8	0.93	-5.19	-5.16	-3.6	-14.11
105	-5.35	-5.73	-9	-1.95	0.94	2.52	0.75	2.65	0.21	-3.07	-7.65	-4.75	-14.11
120	-5.39	-6.73	-11.69	-1.69	-2.17	-2.75	-0.35	1.44	0.24	-0.22	-10.19	-6.38	-14.11
135	-5.41	-7.83	-8.38	-0.93	-6.04	-0.79	1.14	-5.77	-4.75	-1.88	-5.7	-8.95	-14.11
150	-5.23	-8.68	-5.78	0.12	-6.61	0	-2.94	-14.12	-3.27	-2.65	-4.6	-11.95	-14.11
165	-5.17	-8.99	-6.11	-0.62	-8.62	-1.12	-10.08	-5.54	-2.48	-0.23	-6.77	-14.11	-14.11
180	-5.21	-8.31	-6.9	-2.63	-8.14	-6.12	-12.27	-11.76	-10.01	-5.99	-10.48	-12.35	-14.11
195	-5.3	-7.54	-9.4	-4.51	-7.57	-5.15	-5.75	-4.53	-2.38	-7.26	-7.19	-9.05	-14.11
210	-5.44	-7.84	-15.08	-4.28	-6.66	-4.36	-10.21	-6.33	-5.67	-5.05	-6.86	-6.29	-14.11
225	-5.44	-9.39	-12.45	-3.97	-9.5	-7.79	-6.37	-6.71	-11.09	-6.49	-8.66	-4.61	-14.11
240	-5.24	-11.2	-10.44	-4.15	-11.32	-7.44	-4.97	-13.41	-11.87	-5.7	-7.69	-3.7	-14.11
255	-5.19	-12.3	-11.06	-4.15	-13.53	-5.32	-8.65	-8.28	-12	-7.31	-8.23	-3.7	-14.11
270	-5.04	-13.5	-8.52	-3.81	-11.92	-7.95	-11.77	-18.52	-11.57	-11.74	-8.73	-4.06	-14.11
285	-4.77	-14.26	-7.45	-3.54	-7.16	-5.88	-9.3	-20.8	-8.4	-9.76	-8.09	-5.22	-14.11
300	-4.55	-13.13	-10.87	-5.38	-6.32	-3.33	-8.2	-6.26	-4.54	-10.34	-7.73	-5.24	-14.11
315	-4.37	-10.44	-11.03	-5.97	-5.91	-5.39	-8.68	-1.8	-3.07	-10.78	-6.6	-3.55	-14.11
330	-4.39	-8.43	-7.45	-3.19	-6.75	-8.77	-2.98	-1.95	-2.36	-5.47	-3.85	-2.77	-14.11
345	-4.61	-7.16	-6.79	-5.45	-4.07	-2.65	-3.39	3.32	1.03	-2.23	-2.89	-3.24	-14.11

Ant3													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.3	-3.88	-8.46	-3.13	-7.41	-9.74	-6.72	-3.43	-6.13	-2.99	-3.86	-7.35	-14.86
15	-6.41	-5.12	-9.02	-6.94	-9.19	-8.38	-10.74	-9.52	-7.36	-5.25	-5.79	-8.58	-14.86
30	-6.53	-6.68	-7.22	-6.87	-12.31	-10.37	-10.89	-13.44	-11.94	-6.23	-7.44	-9.58	-14.86
45	-6.47	-8.14	-6.14	-8.63	-15.57	-13.66	-12.42	-13.65	-13.06	-7.88	-5.99	-10.47	-14.86
60	-6.54	-9.27	-6.12	-9.89	-11.94	-11.87	-22.92	-14.15	-12.07	-9.89	-5.19	-11.4	-14.86
75	-6.55	-9.98	-8.94	-6.45	-12.32	-14.26	-22.73	-11.47	-15.81	-15.68	-9.45	-12.59	-14.86
90	-6.56	-9.44	-13.77	-9.42	-14.6	-14.02	-18.56	-13.72	-17.84	-9.78	-19.81	-13.86	-14.86
105	-6.52	-8.18	-8.99	-11.44	-11.17	-20.33	-12.31	-11.28	-14.88	-8.61	-14.28	-14.2	-14.86
120	-6.48	-7.52	-7.84	-11.82	-23.91	-8.47	-7.02	-7.76	-8.15	-7.95	-12.02	-14.08	-14.86
135	-6.32	-7.86	-10.04	-11.38	-16.54	-4.74	-5.33	-3.33	-4.34	-6.04	-9.56	-13.7	-14.86
150	-6.51	-8.55	-10.95	-8.6	-16.13	-3.47	-2.65	-0.04	-1.41	-5.56	-7.85	-14.86	-14.86
165	-6.9	-7.98	-8.89	-8.52	-5.8	-0.1	0.47	1.77	-0.13	-4.01	-6.81	-14.39	-14.86
180	-7.17	-6.75	-7.89	-10.35	-2.96	1.71	3.21	4.19	1.97	-0.72	-5.01	-12.35	-14.86
195	-6.82	-5.57	-5.66	-8.43	-0.01	3.42	5	6.66	3.58	0.47	-4.98	-12.36	-14.86
210	-6.58	-4.7	-3.5	-5.01	-0.28	5.74	7.19	7.41	3.43	0.6	-5.05	-12.62	-14.86
225	-6.3	-4.39	-2.84	-5.24	-1.75	6.17	7.9	7.1	2.68	-0.69	-6.14	-10.36	-14.86
240	-6.33	-4.34	-2.76	-5.31	-1.24	4.82	6.44	6.8	1.96	-2.88	-2.79	-6.77	-14.86
255	-6.59	-3.95	-3.81	-2.83	0.07	3.46	4.39	4.89	-0.64	-2.92	-3.15	-5.18	-14.86
270	-6.87	-3.27	-2.32	-0.52	-0.29	2.34	2.79	1.07	-2.66	-3.89	-4.28	-5.49	-14.86
285	-6.7	-2.58	-0.56	0.25	0.12	1.65	-0.28	2.31	0.63	-7.17	-5.52	-6.24	-14.86
300	-6.63	-2.22	-0.05	0.48	1.92	2.32	1.11	1.06	-2.89	-4.39	-5.42	-6.82	-14.86
315	-6.46	-2.16	-1.13	0.25	1.99	1.94	-0.02	-4.13	-3.99	-0.59	-5.24	-6.86	-14.86
330	-6.36	-2.35	-2.9	-0.12	-1.21	-0.44	-7.61	-5.42	-2.03	-0.92	-3.7	-6	-14.86
345	-6.26	-2.87	-5.64	-1.21	-6.17	-7.46	-9.8	-4.37	-2.95	-1.38	-2.64	-6.42	-14.86

Ant4													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.38	-5.97	-7.25	-6.95	-9.61	-6.95	-9.14	-10.73	-6.08	-7.73	-13.32	-13.41	-17.41
15	-5.54	-6.63	-8.65	-10.79	-6.39	-3.8	-5.05	-9.84	-4.2	-8.8	-15.86	-12.79	-17.41
30	-5.58	-7.21	-11.95	-6.08	-2.61	-0.72	-2.35	-21.96	-8.12	-9.15	-12.52	-12.47	-17.41
45	-5.62	-7.32	-9.92	-2.31	0.37	0.43	1.58	-6.56	-15.3	-13.62	-10.79	-13.25	-17.41
60	-5.68	-7.35	-6.23	-1.08	1.96	2.9	1.93	-0.51	-7.9	-7.83	-12.94	-15.39	-17.41
75	-5.53	-7.5	-4.69	-1.12	2.63	4.84	1.16	-0.21	-5.02	-4.57	-12.64	-16.23	-17.41
90	-5.43	-8.22	-5.53	-1.71	1.19	5.22	4.01	0.74	-2.99	-4.92	-13.29	-17.41	-17.41
105	-5.51	-8.79	-8.28	-4.1	-0.2	5.75	5.95	3.49	-1.79	-7.39	-14.06	-17.13	-17.41
120	-5.55	-9.14	-8.57	-4.8	0.12	6.29	7.23	4.7	-0.88	-6.33	-15.08	-15.49	-17.41
135	-5.53	-9.68	-6.89	-3.5	0.78	6	7.87	6.69	1.18	-3.5	-9.13	-10.36	-17.41
150	-5.4	-10.7	-6.14	-3.96	0.22	5.24	6.9	7.41	2.95	-0.75	-4.31	-8.18	-17.41
165	-5.28	-11.68	-6.43	-6.53	-2.77	4.03	5.46	6.68	4.38	0.93	-3.5	-7.36	-17.41
180	-5.29	-12.53	-7.21	-6.97	-5.53	1.58	5.04	6.18	4	0.09	-3.47	-6.15	-17.41
195	-5.28	-13.14	-7.55	-4.99	-4.11	-1.17	1.93	3.92	0.16	-3.03	-6.2	-5.91	-17.41
210	-5.17	-13.75	-8.93	-5.51	-4.52	-3.61	-2.71	-0.89	-3.22	-5.43	-11.25	-5.89	-17.41
225	-5.2	-14.52	-11.95	-6.9	-7.73	-5.74	-2.04	-2.38	-2.13	-4.39	-13.06	-5.94	-17.41
240	-5.09	-14.1	-15.51	-7.52	-7.21	-3.67	-4.25	-6.28	-3.41	-5.22	-11.15	-6.88	-17.41
255	-5.04	-12.92	-13.94	-8.01	-9.19	-7.04	-9.55	-10.13	-5.49	-8	-17	-6.33	-17.41
270	-5.24	-11.28	-12.89	-7.08	-9.67	-7.7	-12.88	-12.86	-7.5	-9.83	-15.05	-5.82	-17.41
285	-5.3	-9.76	-12.59	-6.77	-7.44	-6.62	-11.55	-11.4	-10.23	-12.35	-15.64	-6.02	-17.41
300	-5.19	-8.24	-13.45	-8.36	-6.9	-8.78	-6.56	-14.57	-13.87	-9.1	-20.22	-6.57	-17.41
315	-5.28	-6.68	-13.29	-7.42	-8.08	-10.55	-7.91	-7.12	-14.44	-7.76	-15.77	-7.89	-17.41
330	-5.35	-5.83	-11.01	-6.51	-15.14	-15.64	-15.79	-15.87	-8.14	-12.97	-13.72	-10.77	-17.41
345	-5.28	-5.65	-8.08	-4.86	-19.53	-10.4	-17.21	-10.39	-6.1	-8.88	-12.5	-15.05	-17.41

Composite Gain													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.56	-1.05	-1.29	-0.66	-0.27	2.9	4.24	7.12	4.99	3.87	2.16	0.33	-9.48
15	0.52	-1.37	-1.74	-1.29	-1.85	2.12	4.84	6.4	4.43	3.81	1.06	0.63	-9.48
30	0.55	-1.55	-2.06	0.02	-1.03	3.58	5.7	4.24	2.49	2.85	0.54	0.9	-9.48
45	0.57	-1.59	-2.31	1.52	0.58	4.63	6.36	4.09	0.62	0.44	0.18	0.53	-9.48
60	0.53	-1.64	-2.27	0.94	2.4	5.8	5.03	4.68	1.31	-0.82	-1.02	-0.42	-9.48
75	0.57	-1.61	-2.08	1.66	2.28	6.1	4.22	4.07	1.19	-1.63	-3.17	-1.12	-9.48
90	0.43	-1.5	-2.25	1.79	2.41	5.97	5.16	3.78	1.09	-1.48	-5.95	-1.9	-9.48
105	0.38	-1.3	-2.28	1.36	2.7	5.57	5.39	4.77	0.94	-0.69	-5.73	-2.56	-9.48
120	0.4	-1.41	-2.88	0.44	0.53	4.63	6.15	4.94	1.94	1.58	-6.81	-3.59	-9.48
135	0.41	-1.97	-2.87	0.25	-0.59	5.53	6.55	4.76	2.36	1.94	-2.53	-5.19	-9.48
150	0.4	-2.79	-2.2	0.79	0.02	5.6	6.11	5.54	3.94	3.16	0.71	-6.18	-9.48
165	0.32	-3.02	-1.61	-0.15	0.57	5.34	5.75	6.33	6	5.16	1.07	-5.22	-9.48
180	0.32	-2.4	-1.04	-1.35	0.38	4.08	6.02	6.96	5.9	4.49	0.95	-3.11	-9.48
195	0.39	-1.69	-0.62	-0.8	2.97	4.49	6.27	7.74	6.29	4.02	0.78	-1.77	-9.48
210	0.53	-1.3	-0.49	0.25	3.07	5.81	6.01	6.65	5.33	4.58	0.24	-0.3	-9.48
225	0.57	-1.51	0.03	1.48	0.9	5.99	6.89	6.18	4.4	4.01	-0.54	0.76	-9.48
240	0.62	-1.72	0.15	2.45	-0.08	5.77	6.94	5.93	2.81	1.57	0.46	1.14	-9.48
255	0.52	-1.65	-0.19	3.33	1.33	4.85	5.35	5.92	2.76	1.23	1.43	2.21	-9.48
270	0.45	-1.47	0.17	3.88	1.79	4.73	5	3.24	1.87	-0.42	0.12	2.78	-9.48
285	0.54	-1.36	-0.31	2.62	2.07	5.16	5.49	4.77	2.15	0.3	-0.84	2.56	-9.48
300	0.69	-1.25	-1.37	1.41	3.35	5.88	6.2	5.78	1.96	1.22	-1.78	2.09	-9.48
315	0.72	-0.93	-0.98	1.64	3.46	5.74	6.18	6.08	3.07	2.88	-0.74	1.76	-9.48
330	0.76	-0.69	-0.47	2.47	1.53	4.18	5.47	5.18	4.84	3.59	1.57	1.23	-9.48
345	0.75	-0.61	-0.77	1.2	-0.13	3.55	3.88	6.54	5.6	4.47	2.32	0.06	-9.48

Ant1													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.79	-8.03	-6.19	-2.49	-3.1	-6.72	0.99	2.39	4.26	1.67	-4.02	-5.65	-10.77
15	-5.65	-8.4	-9.33	-6.11	-4.13	-6.27	-0.53	0.24	1.37	1.13	-5.03	-8.04	-10.77
30	-5.56	-8.78	-11.39	-9.82	-8.15	-4.66	-1.83	-1.23	-1.51	-0.46	-4.34	-10.77	-10.77
45	-5.54	-8.8	-10.02	-19.36	-15.15	-9.02	-6.05	-5.63	-4.28	-1.25	-4.88	-8.25	-10.77
60	-5.72	-8.95	-8.13	-6.94	-14.47	-18.04	-12.05	-5.82	-8.36	-5.46	-5.14	-6.19	-10.77
75	-5.7	-10.55	-7.13	-6.35	-11.46	-14.08	-12.9	-9.88	-8.99	-7.65	-7.5	-5.83	-10.77
90	-5.32	-15.45	-9.06	-6.35	-9.71	-12.57	-13.31	-8.31	-14.19	-8.93	-7.9	-6.21	-10.77
105	-5.15	-13.96	-10.24	-5.92	-7.37	-9.01	-10.13	-10.64	-13.27	-9.47	-8.33	-6.01	-10.77
120	-5.01	-8	-6.5	-5.56	-9.98	-10.62	-13.27	-9.6	-15.43	-12.9	-14.8	-6.27	-10.77
135	-4.91	-4.64	-4.18	-4.96	-8.18	-11.9	-14.47	-13.12	-18.72	-16.3	-10.84	-6.41	-10.77
150	-4.83	-2.66	-4.82	-6.25	-13.42	-9.16	-12.96	-8.98	-10.34	-7.07	-6.29	-6.28	-10.77
165	-4.81	-1.48	-6.11	-7.25	-13.05	-8.88	-10.38	-12.19	-9.48	-9.85	-6.85	-5.38	-10.77
180	-4.92	-0.36	-5.56	-5.33	-10.25	-5.05	-10.78	-7.97	-7.88	-5.77	-4.27	-5.18	-10.77
195	-5.1	0.21	-2.79	-1.87	-7.95	-1.62	-7.36	-3.74	-3.3	-0.98	-3.2	-4.09	-10.77
210	-5.5	0.65	0.13	-0.19	-6.92	-0.07	-2.6	-0.36	-1.61	1.62	-2.15	-0.32	-10.77
225	-5.57	0.52	2.22	0.92	-4.82	-1.5	0.49	1.01	-2.5	1.76	-2.13	-0.03	-10.77
240	-5.38	-0.15	3.05	1.49	0.21	-0.94	2.35	2.38	-1.49	-2.39	-4.33	0.14	-10.77
255	-5.18	-1.65	2.27	2.2	1.19	2.86	4.36	1.76	-2.15	-6.86	1.13	3.1	-10.77
270	-5.35	-4.2	-0.88	-1.48	-1.34	1.85	5.08	1.05	-5.57	-3.55	-1.15	4.37	-10.77
285	-5.59	-7.11	-4.41	-4.71	-0.5	4.19	2.75	2.32	-6.93	0.24	-0.3	3.89	-10.77
300	-6.12	-8.37	-1.75	1.89	0.4	5.47	6.6	4.11	-0.23	-0.8	-3.48	2.58	-10.77
315	-6.3	-7.97	0	2.85	-1.7	5.15	7.23	5.23	3.38	1.59	-4.18	1.2	-10.77
330	-6.41	-7.38	-0.35	1.05	-3.36	2.63	3.92	5.02	4.99	1.35	-3.41	-0.79	-10.77
345	-6.16	-7.14	-2.18	-1.4	-3.55	-2.08	2.73	4.94	4.6	2.9	-2.43	-3.08	-10.77

Ant2													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.93	-2.29	-1.92	-3.41	-5.81	-2.75	3.04	-0.71	-1.07	-0.19	-1.17	-4.22	-13.7
15	-4.97	-3.13	-2.62	-4.95	-4.09	0.73	5.3	2.09	0.94	1.39	0.28	-2.57	-13.7
30	-4.89	-3.53	-2.03	-7.23	-1.85	2.42	5.74	3.85	1.87	1.99	0.41	-2.51	-13.7
45	-4.66	-3.42	-1	-4.43	0.69	4.26	4.86	3.58	2.31	2.07	-0.38	-2.9	-13.7
60	-4.5	-3.06	-0.09	-0.27	2.52	5.63	5.03	3.17	2.26	1.17	-1.79	-2.34	-13.7
75	-4.48	-2.29	-0.06	0.24	3.43	4.74	4.2	2.44	-2.6	-0.56	-2.56	-0.81	-13.7
90	-4.5	-1.58	0.91	-1.35	0.17	4.64	2.76	2.35	-3.57	-5.34	-4.05	-0.31	-13.7
105	-4.55	-1.43	2.34	-1.55	-4.72	3.77	5.22	3.42	-1.73	-14.65	-7.1	-0.97	-13.7
120	-4.56	-2.08	2.42	0.98	-0.86	1.4	1.83	3.41	1.68	-3.62	-14.45	-1.94	-13.7
135	-4.43	-3.38	0.33	0.27	0.36	0.21	0.56	1.75	-0.32	-2.56	-13.7	-3.52	-13.7
150	-4.28	-4.34	-3.59	-0.57	-3.03	-3.17	-0.3	-1.49	-4.82	-4.58	-7.51	-5.48	-13.7
165	-4.08	-4.29	-4.84	1.53	-4.64	-2.84	-1.55	-5.35	-8.75	-4.06	-5.85	-9.18	-13.7
180	-3.89	-3.28	-4.2	-0.96	-4.42	-5.59	-2.82	-5.23	-9.41	-3.35	-7.47	-13.7	-13.7
195	-4.03	-2.11	-4.06	-2.72	-5.68	-13.28	-8.8	-7.92	-8.47	-7.18	-9.13	-10.15	-13.7
210	-4.31	-1.73	-3.74	-4.49	-2.7	-7.13	-7.55	-3.52	-10.58	-13.3	-7.21	-7.25	-13.7
225	-4.58	-2.19	-5.33	-4.71	-1.82	-12.56	-8.49	-8.1	-12.38	-9.79	-7.54	-6	-13.7
240	-4.57	-3.14	-8.96	-3.05	-5.8	-4.08	-6.93	-7.21	-12.78	-9.19	-5.01	-5.15	-13.7
255	-4.36	-4.27	-8.75	-3.07	-6.47	-9.53	-11.81	-12.37	-10.64	-10.15	-4.2	-4.99	-13.7
270	-4.26	-5.52	-7.22	-2.18	-4.85	-6.26	-13.39	-13.58	-6.47	-19.51	-4.39	-5.51	-13.7
285	-4.39	-5.79	-8.6	-3.99	-3.36	-3.94	-11.71	-6.52	-5.76	-13.67	-6.96	-5.94	-13.7
300	-4.62	-4.77	-6.34	-4.18	-5.15	-8.88	-10.31	-4.04	-5.01	-7.56	-4.4	-4.62	-13.7
315	-4.83	-3.4	-2.57	-2.42	-12.85	-9.04	-4.6	-8.09	-6.11	-7.52	-3.7	-3.95	-13.7
330	-4.81	-2.27	-1.09	-4.19	-7.06	-5.51	-2.36	-1.93	-7.1	-4.2	-2.65	-4.93	-13.7
345	-4.78	-1.84	-1.07	-4.17	-7.49	-15.1	0.22	-2.73	-3.11	-2.92	-2.95	-5.84	-13.7

Ant3													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.69	-5.08	1.05	-7.13	-4.91	-12.41	-10.61	-2.52	-6.86	-1.6	-3.4	-8.23	-13.8
15	-0.63	-7.63	-0.29	-12.41	-5.72	-14.91	-8.81	-7.27	-7.16	-6.53	-5	-7.88	-13.8
30	-0.36	-11.21	-2.4	-13.14	-7.56	-12.88	-8.62	-8.47	-12.55	-9.28	-7.62	-9.1	-13.8
45	-0.1	-10.27	-5.75	-10.71	-8.8	-8.72	-8.05	-13.71	-12.15	-7.03	-5.97	-9.24	-13.8
60	0.01	-6.42	-10.63	-8.76	-10.83	-8.48	-14.09	-7.93	-10.88	-11.39	-6.89	-11.94	-13.8
75	-0.07	-4.02	-13.06	-10.1	-9.33	-8.73	-12.29	-7.53	-12.04	-12.54	-13.06	-13.8	-13.8
90	-0.26	-2.98	-8.14	-12.85	-10.58	-10.6	-12.95	-13.98	-15.87	-13.26	-14.96	-11.27	-13.8
105	-0.28	-2.97	-7.79	-13.33	-14.07	-13.14	-12.96	-8.09	-10.14	-12.02	-10.63	-9.72	-13.8
120	-0.23	-3.34	-10.95	-14.51	-11.16	-11.71	-11.33	-9.72	-6.31	-9.23	-12.58	-9.27	-13.8
135	-0.05	-3.48	-11.61	-12.94	-4.62	-8.29	-4	-5.56	-4.08	-6.65	-17.22	-8.76	-13.8
150	-0.07	-2.91	-12.6	-5.82	-3.08	-7.81	0.14	-1.71	-1.78	-2.48	-12.3	-8.31	-13.8
165	-0.17	-1.82	-11.05	-1.77	-5	-4.44	0.57	2.27	2.1	-0.26	-7.62	-7.41	-13.8
180	-0.18	-1	-6.99	-0.24	-2.36	-2.55	1.84	4.45	4.35	1.28	-4.35	-6.67	-13.8
195	-0.16	-0.4	-4.35	0.13	-2.05	0.07	2.78	6.79	5.85	2.71	-4	-6.01	-13.8
210	-0.27	0.27	-3.21	-0.3	-2.16	2.85	3.78	7.11	5.59	2.7	-3.69	-4.64	-13.8
225	-0.35	0.88	-0.92	0.56	-0.3	4.63	5.65	5.17	3.27	2.36	-3.6	-3.09	-13.8
240	-0.59	1.44	1.25	1.2	0.45	4.97	5.63	2.47	1.97	1.08	-3.44	-1.81	-13.8
255	-0.73	1.62	2.82	1.02	-2.21	3.37	3.13	0.7	0.49	-0.92	-2.85	-1.58	-13.8
270	-0.6	1.21	3.21	1.3	0.9	3.09	0.84	-2.83	-5.4	-3.12	-2.42	-2.65	-13.8
285	-0.5	0.33	2.53	2.5	3.59	1.57	0.2	0.67	-2.27	-4.81	-2.23	-5.26	-13.8
300	-0.4	-0.87	2.33	2.93	3.43	-1.85	-0.22	2.44	-0.96	-6.25	-6.58	-8.76	-13.8
315	-0.41	-2.19	2.5	2.36	1.7	-1.06	0.63	0.34	-3.98	-2.68	-8.36	-11.33	-13.8
330	-0.49	-3.14	2.35	0.11	1.45	-3.05	-1.75	-2.02	-7.04	-1.27	-7.32	-11.23	-13.8
345	-0.62	-3.81	2.12	-3.48	-1.05	-4.97	-9.26	-2.75	-6.88	-0.1	-3.73	-10.78	-13.8

Ant4													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.38	-3.02	-4.54	-5.58	-4.74	-11.75	-8.75	-10	-7.73	-10.16	-5.72	-4.2	-18.42
15	-5.22	-3.83	-2.98	-2.67	-1.91	-7.86	-3.07	-5.59	-6.61	-3.34	-3.73	-2.8	-18.42
30	-4.88	-4.78	-0.89	0.73	0.14	-3.78	-3.1	-2.05	-6.2	-3.81	-4.87	-2.54	-18.42
45	-4.46	-4.9	0.27	2.8	1.71	-0.95	-2.57	1.1	-4.64	-2.43	-5.96	-4.46	-18.42
60	-4.56	-4.13	0.29	2.86	2.89	1.58	-4.14	0.38	-0.2	-1.72	-8.14	-7.23	-18.42
75	-4.97	-3.27	-0.15	2.03	1.45	1.43	-0.54	1.67	1.21	-3.52	-12.84	-9.36	-18.42
90	-5.29	-2.86	-0.92	-1.22	0.6	0.42	1.58	4.3	1.36	-6.99	-13.36	-9.92	-18.42
105	-5.27	-2.92	-1.41	-1.56	1.24	1.11	2.58	5.18	2.98	-5.12	-12.38	-8.82	-18.42
120	-5.04	-3.45	-1.35	-0.31	-0.68	2.93	3.81	5.45	3.69	-4.48	-14.08	-7.18	-18.42
135	-4.62	-4.29	-1.49	-0.44	-4.26	2.04	3.94	4.73	3.93	-3.78	-14.13	-7.33	-18.42
150	-4.58	-4.79	-2.55	-0.97	-4.84	0.58	4.17	5.49	4.69	-0.76	-15.61	-9.28	-18.42
165	-4.71	-5.05	-2.09	-0.54	-2.05	1.65	3.41	5.61	4.33	1.25	-12.98	-9.73	-18.42
180	-4.72	-5.87	-0.61	1.77	-1.8	-0.88	0.41	3.58	4.17	1.98	-5.54	-8.91	-18.42
195	-4.68	-7.04	-1.18	1.06	-5.82	-5.99	-0.37	2.44	1.95	0.71	-2.44	-9.55	-18.42
210	-4.5	-8.49	-3.88	-4.48	-6.94	-8.01	-2.1	0.79	-0.73	-3.57	-2.75	-8.67	-18.42
225	-4.65	-10.6	-8.16	-3.79	-5.42	-5.04	-1.02	-1.92	-0.37	-11.44	-7.54	-7.91	-18.42
240	-4.91	-11.64	-10.99	-4.41	-3.85	-2.8	-0.55	-0.96	-0.46	-4.64	-16.04	-8.24	-18.42
255	-4.99	-9.74	-11.36	-5.3	-4.85	-5.01	-5.78	-3.36	-1.15	-5.26	-16.27	-6.5	-18.42
270	-4.8	-7.61	-11.94	-5.29	-6.73	-5	-11.48	-4.66	-6.76	-9.82	-16.09	-4.86	-18.42
285	-4.63	-5.79	-10.76	-5.09	-5.89	-5.92	-9.26	-3.25	-3.53	-10.44	-15.15	-4.34	-18.42
300	-4.36	-4.37	-5.87	-6.98	-5.39	-2.2	-4	-5.06	-8.54	-6.34	-10.88	-5.07	-18.42
315	-4.48	-3.09	-3.75	-10.27	-4.94	-2.84	-7.67	-4.72	-11.25	-11.8	-8.26	-7.93	-18.42
330	-4.89	-2.44	-3.73	-10.21	-7.38	-9.58	-8.41	-10.17	-6.78	-10.04	-8.01	-18.42	-18.42
345	-5.26	-2.53	-4.89	-8.08	-8.32	-17.79	-8.04	-6.62	-8.3	-7.23	-8.76	-9.43	-18.42

Composite Gain													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.08	1.69	3.56	1.56	1.44	-1.47	4.08	4.36	4.56	4.43	2.6	0.59	-7.74
15	2.16	0.57	2.79	0.15	2.17	0.66	5.68	4.24	4.06	4.77	2.94	1.09	-7.74
30	2.37	-0.53	2.68	0.28	2.39	2.86	5.61	5.09	2.94	4.07	2.42	0.57	-7.74
45	2.61	-0.39	2.78	1.51	3.04	4.22	4.58	4.54	2.76	4.44	2.05	0.2	-7.74
60	2.63	0.66	2.64	4.01	4.1	5.14	3.08	4.6	3.35	2.82	0.87	-0.26	-7.74
75	2.52	1.51	2.41	3.77	4.28	4.78	3.61	4.29	1.92	1.04	-1.85	-0.15	-7.74
90	2.45	1.7	2.78	1.71	2.65	4.31	3.56	4.95	0.78	-2.14	-2.95	0.2	-7.74
105	2.47	1.85	3.15	1.56	1.44	4.23	5.36	5.99	2.79	-3.57	-3.35	0.36	-7.74
120	2.66	2.07	3.33	2.92	1.67	3.89	4.28	6.05	4.6	-0.78	-7.91	0.29	-7.74
135	2.77	2.09	2.8	2.84	2.39	3.31	4.76	5.33	4.29	0.04	-7.66	-0.27	-7.74
150	2.82	2.39	0.89	3.01	0.8	2	5.63	5.8	4.63	2.61	-3.65	-1.18	-7.74
165	2.8	3	0.56	4.56	0.67	3.2	5.31	6	5.16	3.73	-1.91	-1.73	-7.74
180	2.82	3.65	2.02	5.19	1.88	2.71	4.34	6.29	6.04	5.13	0.71	-2.05	-7.74
195	2.77	4.11	3.02	5.3	0.91	2.13	3.88	7.16	6.6	5.53	1.68	-1.07	-7.74
210	2.62	4.36	3.51	3.91	1.63	4.13	4.84	7.94	5.91	4.73	2.28	1.41	-7.74
225	2.49	4.19	3.87	4.62	3.19	4.46	6.53	6.3	4.62	3.89	1.15	2.28	-7.74
240	2.38	3.87	4.12	5.2	4.17	6.06	7.26	5.97	4.28	3	0	2.82	-7.74
255	2.41	3.43	4.4	5.25	3.43	5.48	5.7	4.16	3.55	0.87	2.38	4.35	-7.74
270	2.48	2.65	3.63	4.42	3.52	5.37	4.55	2.43	-0.01	-0.96	1.56	4.84	-7.74
285	2.48	1.96	2.28	3.82	5.21	5.93	3.52	4.97	1.59	0.47	1.45	4.14	-7.74
300	2.42	1.83	3.85	5.37	5.16	5.62	6.13	6.27	2.94	1.21	0.12	3.09	-7.74
315	2.31	2.12	5.41	5.49	3.02	5.5	6.8	5.67	3.16	2.32	0.17	1.78	-7.74
330	2.17	2.44	5.58	3.71	2.71	3.29	4.93	5.31	3.86	3.42	0.99	-0.56	-7.74
345	2.1	2.41	4.88	2.06	1.42	-1.64	3.91	5.32	4.18	4.95	1.88	-0.73	-7.74

Ant1													
Freq	5850												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.84	-9.17	-6.15	-1.86	-0.71	-4.89	0.46	3.16	5.24	1.5	-4.3	-5.92	-16.96
15	-6.54	-10.47	-9.89	-6.29	-3.11	-6.84	-1.54	-0.26	2.5	0.5	-6.47	-8.64	-16.96
30	-6.23	-10.14	-17.3	-10.88	-6.57	-6.24	-3.69	-2.37	-1.24	-1.56	-8.26	-13.02	-16.96
45	-6.05	-7.78	-14.28	-18.49	-11.95	-8.5	-6.56	-4.83	-5.3	-1.3	-9.06	-16.96	-16.96
60	-5.9	-6.2	-9.26	-10.9	-18.61	-13.75	-10.58	-8.82	-9.74	-3.85	-7.83	-13.71	-16.96
75	-5.9	-6.42	-7.1	-7.4	-13.53	-13.46	-10.21	-10.98	-10.63	-6.78	-8.96	-11.85	-16.96
90	-5.93	-8.02	-9.29	-8.61	-16.18	-12.9	-11.21	-8.95	-14.65	-11.22	-9.64	-14.37	-16.96
105	-6.13	-9.09	-9.17	-8.13	-10.36	-10.44	-10.34	-11.65	-14.75	-8.99	-11.55	-14.14	-16.96
120	-6.09	-7.71	-5.13	-3.76	-8.07	-10.67	-9.88	-13.07	-13.28	-13.97	-28.56	-12.72	-16.96
135	-6	-5.12	-3.04	-2.75	-8.5	-8.94	-14.52	-10.78	-20.49	-18.31	-10.81	-9.2	-16.96
150	-5.8	-3.26	-3.2	-6.07	-13.47	-11.25	-11.81	-14.94	-9.73	-9.85	-7.46	-6.85	-16.96
165	-5.81	-1.8	-3.79	-9.89	-15.63	-9.29	-14.05	-14.84	-6.97	-14.69	-9.31	-5.66	-16.96
180	-6.02	-0.53	-2.4	-6.38	-15.41	-5.42	-9.86	-10.97	-4.73	-7.02	-5.46	-5.13	-16.96
195	-6.31	0.41	0.13	-1.57	-8.55	-3.78	-5.09	-2.8	-2.43	-3.4	-4.14	-4.69	-16.96
210	-6.44	0.6	1.95	0.84	-9.1	-2.75	-0.84	0.3	-1.44	0.18	-2.06	-0.95	-16.96
225	-6.88	0.31	2.86	2.24	-4.8	-3.2	1.54	2.04	-3.01	1.09	-1.28	-0.86	-16.96
240	-7.03	-0.5	2.98	3.26	-0.47	-0.35	1.52	3.33	-1.5	-3.04	-3.59	-1.09	-16.96
255	-7.16	-1.91	1.95	2.85	1.01	2.71	4.07	2.31	-3.91	-6.56	0.99	2	-16.96
270	-6.95	-3.54	-0.31	0.19	-0.72	3.26	4.13	0.35	-5.62	-5.63	-2.19	3.21	-16.96
285	-6.75	-4.92	-1.72	1.29	0.35	4.4	1.85	3.23	-5.13	0.73	-2.01	2.32	-16.96
300	-6.59	-6.08	-0.6	3.52	0.6	4.37	6.24	4.75	-0.45	1.68	-6.95	0.47	-16.96
315	-6.93	-6.57	-0.08	3	-1.09	3.9	6.26	5.14	3.53	1.91	-6.99	-1.03	-16.96
330	-7.16	-6.78	-0.57	0.49	-2	1.22	2.25	5.69	5.92	1.76	-4.57	-2.39	-16.96
345	-7.29	-7.46	-2.3	-2.19	-1.3	-2.54	1.94	6.06	5.55	3.19	-2.31	-3.79	-16.96

Ant2													
Freq	5850												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.09	-2.2	-2.15	-1.86	-2.74	-1.35	2.88	2.57	0.33	-0.19	-1.67	-4.86	-10.55
15	-4.49	-2.55	-1.91	-3.37	-0.61	-1.35	5.47	5.58	0.77	0.56	-0.82	-3.27	-10.55
30	-4.85	-2.76	-1.53	-3.32	0.65	0.42	7	6.57	0.02	0.75	-0.8	-3.28	-10.55
45	-5.01	-2.43	-0.78	-1.61	0.65	2.74	6.74	6	-0.79	-0.17	-2.18	-3.74	-10.55
60	-5.02	-1.5	-0.18	1.01	0.82	4.22	5.96	4.51	0.89	-2.8	-3.65	-3.88	-10.55
75	-4.88	-0.59	-0.43	1.32	1.97	4.27	5.5	3.55	-0.8	-5.06	-4.36	-2.13	-10.55
90	-4.71	0.01	0.35	-1.33	0.49	3.8	3.09	1.44	-10.75	-7.25	-4.23	-0.73	-10.55
105	-4.95	0	2.24	-0.66	-7.62	2.49	5.41	1.91	-7.57	-21.64	-6.2	-0.92	-10.55
120	-5	-0.87	2.73	-0.52	-5.63	-0.56	3.99	2.37	-0.88	-5.46	-10.98	-1.32	-10.55
135	-4.84	-2.53	1.56	-2.13	-2.14	1.08	-1.13	0.4	-0.58	-2.29	-11.09	-2.29	-10.55
150	-4.64	-4.44	-0.74	-3.24	-3.44	-1.05	-2.74	-1.2	-3.45	-2.97	-6.46	-3.95	-10.55
165	-4.52	-5.35	-2.26	-2.22	-2.05	-2.92	-4.11	-4.78	-7.4	-3.87	-4.64	-7.27	-10.55
180	-4.4	-5.35	-2.81	-5.18	-1.04	-6.28	-3.86	-5.77	-7.41	-3.11	-6.52	-10.25	-10.55
195	-4.25	-5.05	-3.13	-7.25	-2.62	-14.63	-8.16	-12.07	-7.18	-5.69	-8.36	-7.1	-10.55
210	-3.98	-4.66	-3.39	-6.7	-2.34	-7.31	-6.17	-6.05	-9.92	-16.79	-9.09	-5.2	-10.55
225	-3.8	-4.75	-5.22	-2	-2.82	-7.84	-7.54	-10.19	-9.29	-8.47	-9.7	-4.68	-10.55
240	-3.7	-5.09	-10.33	-1.77	-5.51	-4.86	-7.17	-10.32	-17.39	-10.83	-7.02	-5.65	-10.55
255	-3.72	-5.34	-11.13	-4.09	-5.65	-15.02	-13.27	-11.22	-16.35	-10.56	-6.68	-6.39	-10.55
270	-3.81	-4.89	-9.08	-3.61	-4.1	-5.48	-13.24	-17.32	-9.11	-13.89	-7.37	-8.22	-10.55
285	-3.85	-3.96	-7.51	-2.85	-1.87	-5.4	-14.11	-7.33	-9.88	-9.6	-9.26	-10.55	-10.55
300	-3.86	-2.81	-4.04	-1.47	-6.06	-10.26	-11.18	-5.63	-7.82	-8.14	-6.29	-8.58	-10.55
315	-3.94	-1.91	-2.76	-2.01	-14.88	-11.33	-4.17	-4.67	-7.96	-5.72	-4.2	-6.11	-10.55
330	-4	-1.5	-2.74	-5.55	-6.51	-7.33	-2.83	-1.11	-4.39	-3.27	-2.86	-5.2	-10.55
345	-4.01	-1.69	-2.37	-3.39	-7.95	-4.61	0.24	0.54	-2.15	-2.15	-2.36	-5.44	-10.55

Ant3													
Freq	5850												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.24	-5.77	0.7	-6.55	-7.03	-9.17	-8.55	-2.83	-6.4	-0.95	-3.88	-10.49	-16.1
15	-0.04	-8.06	-0.94	-6.83	-8.09	-13.9	-9.61	-6.67	-5.27	-5.57	-4.86	-9.13	-16.1
30	0.2	-8.56	-3.77	-7.33	-11.54	-14.45	-8.92	-9.38	-9.44	-9.05	-6.94	-9.12	-16.1
45	0.45	-6.88	-9.23	-7.32	-13.46	-10.49	-9.75	-12.26	-11.62	-7.02	-5.69	-9.91	-16.1
60	0.63	-5.6	-12.75	-8.93	-9.46	-8.32	-15.97	-8.32	-10.21	-12.55	-6.96	-13.62	-16.1
75	0.77	-5.2	-10.62	-9.8	-8.01	-7.72	-11.07	-8.78	-13.66	-10.27	-13.25	-16.1	-16.1
90	0.79	-5.28	-12.35	-13.33	-13.07	-10.65	-12.67	-16.79	-20.56	-10.53	-14.13	-13.83	-16.1
105	0.66	-5.19	-15.74	-19.74	-13.97	-19.12	-10.09	-9.29	-11.52	-10.51	-11.83	-13.03	-16.1
120	0.53	-4.4	-14.6	-15.07	-9.72	-11.32	-10.96	-13.66	-7.92	-10.88	-18.13	-13.52	-16.1
135	0.46	-3.84	-13.79	-8.18	-3.81	-9.4	-2.82	-6.39	-5.42	-6.43	-13.77	-12.52	-16.1
150	0.67	-3.84	-10.07	-3.8	-5.11	-5.46	-0.58	-2.43	-2.74	-2.04	-11.22	-10.92	-16.1
165	0.81	-3.6	-5.33	-2.16	-4.78	-3.52	-0.23	0.93	1.25	0.1	-8.89	-8.45	-16.1
180	0.77	-2.5	-2.59	-1.13	-0.98	-1	2.28	3.43	4.11	1.55	-4.15	-6.41	-16.1
195	0.56	-1.56	-1.22	-0.09	-0.16	1.4	3.33	6.19	5.92	3.05	-3.38	-5.84	-16.1
210	0.33	-0.67	-0.75	-0.54	-0.12	2.67	2.58	6.8	5.79	3.21	-2.93	-5.75	-16.1
225	-0.01	0.32	-1.25	0.2	0.76	4.11	3.99	5.69	3.46	2.46	-4	-3.65	-16.1
240	-0.12	1.33	-0.32	0.89	1.76	4.64	5.1	3.16	1.78	0.22	-4.37	-2.77	-16.1
255	-0.23	2.08	2.02	1.27	-0.81	3.09	1.82	0.21	0.87	-1.09	-3.97	-3.08	-16.1
270	-0.27	2.36	3.59	1.92	-0.76	3.13	0.32	-3.64	-3.13	-2.09	-4.17	-3.5	-16.1
285	-0.16	1.96	3.57	2.59	3.14	2.57	-0.25	-0.36	-2.69	-4.05	-2.41	-4.66	-16.1
300	-0.02	0.91	2.71	3.16	3.49	-3.69	-1.69	2.56	0.17	-5.83	-6.3	-6.43	-16.1
315	-0.01	-0.59	1.77	2.5	1.87	-4.63	1.91	2.43	-3.4	-1.55	-8.05	-9.1	-16.1
330	-0.18	-2.12	1.63	0.12	0.59	-2.75	-0.46	-0.45	-5.4	-0.68	-7.14	-10.9	-16.1
345	-0.27	-3.66	1.6	-3.57	-2.47	-3.55	-5.97	-2.71	-7.66	0.17	-4.59	-13.24	-16.1

Ant4													
Freq	5850												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.62	-2.62	-5.27	-5.08	-5.01	-16.86	-8.27	-9.51	-9.39	-8.59	-6.48	-6.25	-16.28
15	-3.7	-3.49	-3.45	-2.11	-2.27	-8.78	-4.33	-3.4	-8.52	-2.95	-4.37	-4.53	-16.28
30	-3.77	-4.22	-1.37	0.89	-0.79	-3.94	-3.66	-1.01	-6.96	-2.85	-4.77	-4.24	-16.28
45	-3.84	-4.39	-0.07	2.02	0.96	-0.7	-3.15	1.4	-4.39	-1.37	-5.51	-5.73	-16.28
60	-3.75	-3.94	0.32	2.18	2.84	1.51	-3.24	0.91	-0.56	-1.93	-8.81	-7.05	-16.28
75	-3.58	-3.27	0.13	1.91	1.89	0.94	1.01	3.23	-0.11	-6.94	-14.33	-6.67	-16.28
90	-3.61	-2.71	-0.96	0.07	1.98	1.07	2.24	4.66	0.8	-8.36	-12.49	-6.25	-16.28
105	-3.82	-2.71	-1.85	-1.43	0.88	0.99	4.13	5.7	1.59	-7.7	-10.68	-6.28	-16.28
120	-4.1	-3	-1.3	-0.69	-2.26	2.62	4.01	4.93	0.67	-7.72	-10.65	-5.79	-16.28
135	-4.23	-3.36	-0.54	1.41	-4.55	-0.28	3.56	4.99	2.86	-3.41	-11.73	-5.84	-16.28
150	-3.93	-3.79	-0.75	2.49	-4.46	-3.47	4.74	6.52	4.43	-0.75	-11.66	-7.72	-16.28
165	-3.69	-4.21	-1.56	2.21	-0.52	-0.53	4.29	6.76	3.62	0.39	-11.21	-9.56	-16.28
180	-3.82	-4.98	-1.12	2.71	0.43	-1.15	1.29	4.29	2.82	1.18	-7.41	-9.58	-16.28
195	-4.01	-6.46	-1.18	2.13	-4.1	-6.41	-0.98	4.19	1.68	0.73	-3.93	-8.81	-16.28
210	-4.14	-8.66	-3.02	-1.91	-6.33	-6.41	-3.19	3.26	-2.61	-3.74	-3.24	-8.53	-16.28
225	-4.07	-10.99	-6.41	-3.41	-5.1	-5.44	-2.71	-1.24	-0.42	-19.07	-6.08	-7.41	-16.28
240	-3.87	-13.2	-9.71	-3.51	-4.89	-4.19	-1.26	-2.41	-1	-6.16	-11.36	-8.06	-16.28
255	-3.74	-12.08	-9.83	-6.01	-5.32	-6.19	-5.91	-4.35	-1.31	-4.99	-17.49	-8.58	-16.28
270	-3.83	-8.52	-7.98	-4.6	-5.46	-5.4	-12.13	-5.68	-6.51	-8.99	-19.27	-7.61	-16.28
285	-3.88	-5.53	-6.62	-4.57	-5.23	-7.03	-10.17	-5.26	-5.64	-11.29	-17.23	-6.72	-16.28
300	-3.81	-3.57	-4.76	-5.8	-5.33	-4.35	-6.58	-5.27	-9.45	-9.56	-11.99	-6.95	-16.28
315	-3.7	-2.51	-3.6	-8.91	-4.34	-2.98	-9.22	-4.72	-12.87	-11.37	-8.27	-9.69	-16.28
330	-3.69	-2.06	-3.72	-11.67	-5.98	-9	-7.25	-10.51	-13.42	-8.77	-7.35	-16.28	-16.28
345	-3.63	-2.09	-4.85	-7.63	-7.52	-15.62	-9.17	-5.92	-11.74	-8.06	-8.62	-11.17	-16.28

Composite Gain													
Freq	5850												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.64	1.51	3.23	2.42	2.47	-0.37	4.1	5.67	5.31	4.7	2.11	-0.62	-8.53
15	2.66	0.46	2.58	1.59	2.91	-0.55	5.23	6.05	4.47	4.52	2.15	0	-8.53
30	2.71	0.12	1.86	1.96	2.69	1.44	5.82	6.28	2.46	3.52	1.31	-0.57	-8.53
45	2.78	0.91	1.74	2.42	2.48	3.43	5.26	5.99	1.3	3.92	0.75	-1.78	-8.53
60	2.9	1.91	2.25	3.67	3.35	4.62	3.89	4.95	2.54	1.59	-0.56	-2.51	-8.53
75	3.02	2.44	2.62	3.97	3.82	4.54	5.09	5.11	1.59	-1.05	-3.28	-1.62	-8.53
90	3.05	2.53	2.01	1.77	2.58	4.08	4.16	4.59	-1.59	-3.17	-3.24	-0.91	-8.53
105	2.87	2.39	2.32	1.1	0.11	3.12	6.21	5.52	0.29	-4.82	-3.72	-0.89	-8.53
120	2.75	2.37	3.44	2.58	0.07	3.09	5.51	4.88	2.29	-2.91	-8.67	-0.85	-8.53
135	2.74	2.36	3.65	3.74	1.56	2.91	4.34	5.09	3.39	0.18	-5.76	-0.62	-8.53
150	2.97	2.2	3.05	3.98	0.17	1.45	5.22	5.85	4.59	2.73	-2.88	-0.99	-8.53
165	3.1	2.38	2.9	3.98	1.85	2.49	4.7	6.13	4.98	3.17	-2.14	-1.59	-8.53
180	3.04	2.91	3.82	4.28	3.52	2.89	4.67	5.85	6.01	4.82	0.22	-1.56	-8.53
195	2.9	3.28	4.75	4.95	2.67	1.89	4.37	7.3	6.82	5.35	1.28	-0.46	-8.53
210	2.82	3.38	4.99	4.37	2.22	3.51	4.7	8.26	5.7	4.25	2.08	1.35	-8.53
225	2.68	3.33	4.3	5.55	3.36	4.18	5.86	6.78	4.84	3.37	1.28	2.19	-8.53
240	2.69	3.18	3.53	6.12	4.27	5.7	6.63	5.95	3.79	1.97	-0.08	2.03	-8.53
255	2.65	3.12	3.84	5.27	3.8	4.76	4.99	4.11	2.78	0.87	1.4	2.96	-8.53
270	2.63	3.29	4.16	4.91	3.5	5.93	3.84	1.42	0.19	-0.6	-0.3	3.29	-8.53
285	2.68	3.47	4.13	5.62	5.64	5.99	2.66	4.57	0.55	1.28	0.14	2.44	-8.53
300	2.77	3.5	4.87	6.64	5.12	4.14	5.15	6.32	2.65	1.76	-1.57	1.42	-8.53
315	2.73	3.39	5.12	5.8	3.26	3.9	6.58	6.64	2.94	3.14	-0.7	0.26	-8.53
330	2.62	3.14	4.92	3.11	3.04	2.49	4.61	6.14	4.43	4.08	0.74	-1.17	-8.53
345	2.57	2.57	4.36	2.05	1.71	0.69	3.89	6.67	4.48	5.2	1.9	-1.54	-8.53

Ant1													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.29	-2.17	-3.22	-7.22	-3.87	3.44	1.81	0.63	-9.37	-12.5	-14.98	-20.63	-25.42
15	-5.61	-1.58	-3.17	-6.11	-1.05	5.26	2.88	2.12	-9.86	-10.6	-14.85	-13.25	-25.42
30	-5.45	-1.46	-3.43	-2.09	-6.09	3.12	1.44	2.93	-6.63	-9.2	-24.47	-9.18	-25.42
45	-5.7	-1.57	-4.75	-1.13	-8.23	0.06	0.34	3.84	-5.87	-8.98	-16.79	-5.65	-25.42
60	-6.7	-1.69	-5.64	-6.24	-5.86	0.22	2.12	4.16	-8.27	-10.43	-9.64	-5.26	-25.42
75	-8.42	-2.36	-2.69	-17.33	-1.09	4.69	3.93	3.35	-7.18	-7.47	-5.91	-7.48	-25.42
90	-11.64	-4.01	-1.68	-10.52	-3.82	3.18	1.94	2.25	-3.55	-6.28	-7.24	-8.66	-25.42
105	-17.08	-6.92	-3.84	-22.37	-2.33	4.46	4.7	4.7	-1.66	-6.96	-8.7	-8.06	-25.42
120	-18.91	-8.77	-5.93	-11.76	-4.14	1.36	2.39	0.66	-7.25	-9.22	-8.19	-9.09	-25.42
135	-13.12	-9.15	-3.76	-7.37	-7.34	2.79	3.44	-0.6	-13.23	-17.67	-7.19	-9.65	-25.42
150	-8.91	-9.68	-2.87	-5.73	-1.85	2.29	1.38	0.23	-9.1	-12.11	-9.03	-9.88	-25.42
165	-6.66	-11.1	-5.36	-6.56	-2.67	1.33	0.75	-4.51	-9.6	-12.46	-8.53	-11.63	-25.42
180	-5.27	-11.98	-13.37	-13.02	-1.06	1.83	3.03	-2.23	-8	-18.26	-9.87	-11.43	-25.42
195	-4.59	-10.42	-9.92	-11.81	-5.32	-1.46	1.57	-7.9	-8.61	-11.79	-12.16	-9.96	-25.42
210	-4.26	-9.14	-6.04	-3.02	-4.28	-0.42	-0.88	-1.49	-4.32	-6.39	-16.92	-8.65	-25.42
225	-4.58	-8.81	-6.64	-2.53	-4.88	0.05	-1.57	-1.24	-5.11	-7.14	-19	-9.46	-25.42
240	-5.51	-9.52	-10.61	-5.09	-4.3	0.18	-0.77	-4.84	-10.86	-16.21	-20.17	-10.31	-25.42
255	-7.43	-9.76	-14.29	-10.24	-3.99	0.02	1.65	-3.25	-5.05	-9.69	-17.18	-9.56	-25.42
270	-10.22	-9.04	-8	-22.67	-23	-3.77	-2.55	-4.21	-8.74	-9.99	-12.58	-9.07	-25.42
285	-13.61	-9.18	-5.78	-9.37	-4.52	-1.42	-1.09	-4.48	-6.51	-13.96	-16.94	-10.38	-25.42
300	-14.67	-10.6	-6.29	-7.43	-5.73	-3.07	-8.87	-8.29	-16.4	-17.53	-26.28	-13.45	-25.42
315	-11.91	-9.11	-6.34	-7.96	-3.46	1.1	0.68	-4	-14.91	-16	-21.83	-15.23	-25.42
330	-9.26	-5.95	-6.93	-5.74	-3.53	0.42	0.79	-0.32	-9.52	-7.25	-20.65	-17.02	-25.42
345	-7.54	-3.61	-5.11	-4.99	-7.98	1.93	1.98	0.12	-5.19	-6.52	-17.35	-25.42	-25.42

Ant2													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.7	-4.63	-2.69	-2.99	-1.11	-2.07	-2.14	-4.26	-10.99	-12.53	-19.21	-13.67	-40.1
15	-3.96	-2.82	-0.33	-1	-0.99	-1.67	-3.3	-4.82	-17.77	-18.48	-33.93	-10.18	-40.1
30	-2.26	-1.4	1.77	2.16	-2.38	-1.29	-4.07	-5.27	-31.21	-20.9	-23	-12.92	-40.1
45	-1.5	-0.34	1.66	2.33	-1.55	-0.67	-1.84	-8.78	-14.69	-19.04	-19.85	-11.25	-40.1
60	-1.37	0.18	-0.15	-0.96	-5.71	-4.81	-9.04	-6.61	-11.57	-10.93	-27.75	-9.65	-40.1
75	-1.69	0.2	-1.35	-1.52	-2.49	-0.18	-3.36	-6.9	-12.19	-7.07	-26.82	-14.26	-40.1
90	-2.71	-1	-2.62	-3.11	-3.97	-2.74	-5.7	-6.6	-8.14	-8.67	-15.02	-40.1	-40.1
105	-4.7	-4.09	-5.14	-6.79	-4.36	-0.19	1.4	-2.78	-10.54	-13.78	-16.61	-18.88	-40.1
120	-7.86	-9.78	-7.99	-5.11	-4.17	1.18	-0.57	-2.34	-16.83	-13.01	-14.72	-19.43	-40.1
135	-12.88	-19.47	-9.88	-3.27	-12.95	-8.64	-5.51	-8	-13.63	-7.89	-9.87	-13.89	-40.1
150	-13.64	-13.57	-11.91	-5.21	-14.55	-15.58	-8.2	-3.17	-6.55	-12.12	-10.16	-12.74	-40.1
165	-8.92	-8.96	-14.7	-14.83	-28.65	-9.98	-6.51	-3.28	-7.78	-13.97	-12.31	-14.47	-40.1
180	-5.42	-6.93	-18.76	-17.85	-8.04	-3.78	-3.67	-3.34	-7.88	-10.49	-17.66	-16.23	-40.1
195	-3.48	-5.51	-20.84	-14.83	-5.04	1.21	-3.6	0.14	-6.45	-7.69	-10.71	-10.97	-40.1
210	-2.12	-5.19	-18.8	-25.92	-9.73	1.12	-3.39	-0.06	-7.77	-12.48	-9.97	-6.13	-40.1
225	-1.58	-5.77	-12.47	-10.84	-8.46	-2.56	1.12	-0.68	-1.46	-4.56	-11.92	-3.26	-40.1
240	-1.3	-7.15	-10.16	-9.22	-6.93	-6.44	0.84	0.07	-0.08	0.87	-3.61	0.18	-40.1
255	-1.64	-8.53	-8.87	-3.99	-4.21	-1.59	-3.85	0.87	-1.75	2.2	-4.7	0.74	-40.1
270	-2.5	-9.49	-10.22	-7.82	-6.46	-2.45	-0.63	0.65	-2.22	-5.42	-1.58	-0.38	-40.1
285	-4.08	-10.68	-16.12	-10.01	-8.52	-5.83	-9.79	-0.29	-1.48	-7.01	-1.35	-1.3	-40.1
300	-6.66	-13.31	-20.15	-3.89	-4.55	-0.49	-2.71	-3.3	-2.93	-3.22	-6.84	-1.77	-40.1
315	-10.76	-21.87	-10.47	-1.82	-6.91	-12.66	-2.98	-3.15	-6.54	-6.27	-13.69	-4.93	-40.1
330	-14.53	-12.98	-5.82	-1.23	-6.04	-15.07	-4.44	1.07	-5.8	-7.81	-12.98	-8.98	-40.1
345	-10.97	-7.45	-3.16	-0.98	-4.52	-1.74	-2.7	0.4	-7.87	-9.49	-12.65	-15.43	-40.1

Ant3													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.76	-6.33	-3.23	-2.33	-5.33	0.74	-0.92	-6.71	-16.54	-13.47	-10.93	-22.85	-24.58
15	-5.66	-11.75	-7.84	-4.45	-4.31	0.78	-1.01	-2.06	-8.92	-10.82	-24.85	-15.9	-24.58
30	-7.18	-22.81	-14.42	-5.98	-6.89	-1.65	-1.46	-3.33	-4.27	-7.01	-12.33	-16.17	-24.58
45	-9.14	-28.57	-8.52	-1.29	-5.57	-2.6	-2.84	-3.46	-4.87	-9.61	-12.78	-13.25	-24.58
60	-12.36	-30.38	-9.82	-3.75	-15.11	-4.83	-3.02	-2.71	-6.68	-11.81	-27.47	-7.7	-24.58
75	-14.27	-26.97	-15.94	-16.87	-4.57	1.71	1.27	-0.99	-6.3	-11.94	-13.02	-5.42	-24.58
90	-11.76	-20.25	-11.64	-8.62	-3.6	2.76	1.71	0.24	-6.56	-6.33	-8.64	-6.66	-24.58
105	-8.46	-22.42	-13.91	-22.29	-7.82	-1.33	-4.07	-5.94	-7.83	-6.39	-9.56	-9.69	-24.58
120	-6.16	-21.47	-22.6	-16.59	-6.1	0.1	-4.16	-4.24	-16.69	-17.67	-13.47	-14.66	-24.58
135	-4.76	-13.66	-15.23	-11.56	-1.8	1.53	1.69	-5.32	-10.04	-23.81	-19.47	-22.76	-24.58
150	-4.17	-8.98	-9.9	-5.65	-2	-0.72	-0.28	-4.82	-25	-17.04	-26.75	-24.58	-24.58
165	-4.08	-6.06	-6.99	-5.52	-2.8	2.29	-0.79	-0.95	-22.27	-10.44	-22.75	-16.7	-24.58
180	-4.57	-4.63	-7.56	-7.99	-0.41	3.61	1.93	-3.41	-26.18	-11.2	-26.17	-13.25	-24.58
195	-6	-3.92	-9.02	-7.42	0.02	3.1	0.25	-1.16	-16.83	-15.81	-21.88	-13.52	-24.58
210	-8.16	-3.73	-8.34	-10.41	-1.53	4.11	0.43	-0.43	-13.13	-11.31	-21.38	-9.59	-24.58
225	-11.86	-4.94	-8.15	-15.45	-3.27	4.14	2.88	1.12	-11.87	-8.59	-20.13	-9.55	-24.58
240	-17.31	-7.8	-7.98	-12.47	-2.93	3.45	3.35	1.87	-14.43	-9.1	-20.36	-8.19	-24.58
255	-17.13	-11.69	-8.77	-21.01	-1.15	4.98	3.32	2.02	-19.18	-18.48	-15.57	-5.37	-24.58
270	-11.76	-11.02	-9.64	-18.6	-2.23	2.98	0.51	-1.01	-14.55	-14.93	-7.76	-4.96	-24.58
285	-8.5	-6.61	-10.45	-11.55	-1.22	1.52	0.91	-1.15	-4.75	-12.4	-5.46	-5.62	-24.58
300	-6.55	-3.79	-8.21	-13.15	-2.15	2.65	2.02	0.67	-5.48	-18.04	-9.36	-7.25	-24.58
315	-5.21	-2.5	-5.49	-13.93	-2.71	2.55	3.76	0.43	-20.47	-15.55	-9.55	-11.05	-24.58
330	-4.49	-2.29	-3.17	-7	-2.84	2.95	2.07	-3.6	-12.97	-17.66	-6.61	-15.97	-24.58
345	-4.3	-3.32	-2.25	-4.55	-4.02	2.47	0.5	-6.26	-8.83	-13.72	-5.82	-21.96	-24.58

Ant4													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.43	-3.96	-8.06	-13.78	-4.89	-2.72	0.71	-5.15	-6.49	-6.75	-6.88	-10.4	-22.89
15	-1.41	-1.59	-7.47	-11.26	-4.18	-2.48	1.96	-5.62	-3.11	-3.4	-7.34	-10.64	-22.89
30	-0.27	-0.46	-6.86	-8.93	-8.36	-3.95	3.01	-2.14	-0.04	-0.69	-6.33	-14.2	-22.89
45	0.23	-0.77	-7.99	-4.95	-12.22	-6.51	-1.57	-4.82	-3.08	-2.59	-10.43	-17.32	-22.89
60	0.36	-2.01	-10.86	-8.28	-9.9	0.98	-2.09	0.52	-6.53	-15.95	-15.17	-14.24	-22.89
75	-0.21	-4.04	-11.62	-9.35	-15.28	-1.6	-1.27	2.64	3.19	-2.82	-3.51	-6.41	-22.89
90	-1.53	-6.72	-12.33	-7.1	-12.72	-2.48	-2.24	0.04	2.8	1.42	-0.32	-3.11	-22.89
105	-3.5	-8.62	-15.2	-6.94	-11.43	-2.31	-3.49	-3.5	-5.25	1.02	-0.33	-2.18	-22.89
120	-6.87	-10.02	-17.56	-16.55	-7.51	-11.71	2.43	2.64	-6.04	-4.41	-1.21	-1.92	-22.89
135	-11.74	-10.57	-10.26	-6.96	-8.17	-12.78	0.02	1.45	-5.57	-18.61	-2.9	-1.64	-22.89
150	-10.56	-11.29	-6.02	-2.58	-2.98	-9.75	-7.23	0.56	-3.64	-5.59	-6.45	-2.76	-22.89
165	-5.71	-12.36	-4.67	-2.87	-0.73	-4.29	-9.42	-0.58	-2.35	-3.69	-8.57	-4.27	-22.89
180	-2.52	-11.84	-2.87	-2.42	-0.58	-5.15	-7.58	-7.32	-4.93	-5.79	-7.15	-6.37	-22.89
195	-0.45	-7.92	-0.24	1.74	-0.27	-8.76	-15.52	-9.81	-8.73	-11.34	-6.74	-9.34	-22.89
210	0.82	-4.75	0.99	2.89	0.49	-2.65	-5.47	-5.52	-10.03	-16.11	-8.78	-11.61	-22.89
225	1.38	-2.75	-0.36	1.77	-0.64	-3.06	-5.76	-8.79	-11.61	-11.86	-10.92	-12.74	-22.89
240	1.28	-1.98	-1.71	0.4	-2.54	-5.04	-5.25	-8.93	-16.08	-19.08	-11.06	-14.64	-22.89
255	0.53	-2.53	-2.41	-1.36	-2.52	-3.76	-6.83	-14.91	-23.79	-17.71	-11.45	-10.99	-22.89
270	-0.85	-4.07	-2.17	-0.92	-1.23	-2.05	-5.14	-5.89	-11.87	-16.51	-13.66	-7.38	-22.89
285	-3	-6.02	-2.28	-1.32	-6.02	-5.09	-4.31	-6	-9.01	-15.73	-16.61	-8.79	-22.89
300	-6.01	-9.44	-4.17	-7.86	-7.84	-3.44	-2.66	-6.34	-10.17	-27.51	-16.16	-13.1	-22.89
315	-9.97	-15.93	-9.57	-10.99	-6.07	-10.09	-13.87	-9.37	-8.32	-7.98	-12.79	-18.97	-22.89
330	-10.67	-14.93	-31.28	-7.54	-7.08	-12.27	-6.81	-7.38	-6.5	-7.02	-13.42	-22.89	-22.89
345	-6.94	-8.13	-11.41	-10.49	-6.61	-7.52	-2.2	-7.67	-11.16	-15.08	-8.73	-14.12	-22.89

Composite Gain													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.82	1.87	1.96	0.48	2.38	6.22	6.01	2.61	-4.12	-4.85	-5.81	-9.45	-20.26
15	2.04	2.43	1.88	1.05	3.53	7.05	6.48	3.98	-2.46	-3.24	-9.28	-6.19	-20.26
30	2.64	2.66	2.09	3.31	0.38	5.47	6.16	4.63	0.42	-0.89	-7.39	-6.71	-20.26
45	2.72	2.76	2.15	5.13	-0.02	3.93	4.62	3.98	-0.16	-2.27	-8.22	-4.82	-20.26
60	2.27	2.5	0.48	1.64	-2.37	4.33	3.86	5.74	-2.02	-6.01	-10.65	-2.61	-20.26
75	1.48	1.79	0.05	-2.74	1.57	7.5	6.59	6.38	2.31	-0.72	-2.84	-1.78	-20.26
90	0.38	0.34	0.28	-0.87	0.7	6.64	5.48	5.56	3.24	1.98	-0.24	-2.26	-20.26
105	-1.07	-2.38	-2.1	-5.52	0.19	6.59	6.42	5.14	0.32	1.05	-0.87	-1.86	-20.26
120	-2.72	-5.29	-5.11	-5.12	0.65	5.07	6.43	5.6	-4.27	-3.73	-1.65	-2.83	-20.26
135	-3.85	-6.39	-2.8	-0.79	-0.64	4	6.51	3.68	-3.96	-8.93	-2.05	-2.91	-20.26
150	-2.61	-4.69	-0.96	1.33	1.93	2.65	3.41	4.51	-2.3	-4.72	-4.54	-3.49	-20.26
165	-0.15	-3.27	-1.14	-0.45	1.64	4.59	2.96	3.84	-2.05	-3.15	-5.5	-4.38	-20.26
180	1.65	-2.25	-2.69	-2.46	4	5.91	5.43	2.14	-2.99	-4.37	-6.56	-5.04	-20.26
195	2.64	-0.59	-1.23	0.36	3.73	5.54	3.68	2.33	-3.37	-5.17	-5.37	-4.79	-20.26
210	3.18	0.54	0.49	1.77	3.02	6.91	3.98	4.39	-2.2	-4.85	-6.85	-2.75	-20.26
225	3.08	0.71	0.23	1.69	2.15	6.16	5.75	4.33	-0.37	-1.63	-8.54	-2.01	-20.26
240	2.56	-0.11	-0.8	0.77	2	4.97	6.09	4.02	-1.81	-1.3	-4.93	-0.45	-20.26
255	1.78	-1.38	-1.54	-0.53	3.14	6.56	5.51	4.17	-2.21	-0.61	-4.78	0.99	-20.26
270	0.92	-1.97	-0.85	-2.52	0.78	5.1	4.32	3.78	-2.04	-4.58	-1.49	1.22	-20.26
285	-0.37	-1.9	-1.21	-1.02	1.35	3.83	3.3	3.35	1.02	-5.6	-1.52	0.21	-20.26
300	-1.83	-2.53	-1.99	-1.47	1.19	5.29	3.78	2.38	-1.38	-6.11	-6.03	-1.5	-20.26
315	-3.04	-3.48	-1.7	-1.44	1.4	3.58	4.94	2.66	-4.97	-4.37	-7.43	-4.94	-20.26
330	-2.97	-1.54	-1.5	1.02	1.32	3.15	4.66	4.03	-2.25	-2.99	-6.04	-8.79	-20.26
345	-1.1	0.66	1.18	1.39	0.38	5.61	5.63	3.4	-1.98	-4.52	-4.11	-12.06	-20.26

Ant1													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.86	-2.28	-1.92	-8.22	-2.14	4.35	1.26	-3.25	-18.33	-34.54	-8.77	-9.14	-30.72
15	-7.24	-2.79	-3.11	-7.47	-1.62	5.14	2	-2.11	-8.21	-18.26	-10.14	-6.7	-30.72
30	-8.3	-4.04	-4.6	-3.49	-9.49	3.24	2.65	0.82	-4.25	-15.5	-25.87	-3.84	-30.72
45	-9.98	-5.37	-7.26	-1.25	-9.21	2.91	5.02	3.45	-3.44	-13.13	-12.18	-1.65	-30.72
60	-12.72	-6.55	-17.05	-5.28	-11.65	0.79	3.1	2.97	-5.42	-12.67	-7.77	-1.31	-30.72
75	-17.12	-7.89	-13.34	-8.81	-2.28	4.51	3.79	2.48	-3.42	-7.16	-3.95	-2.46	-30.72
90	-30.64	-9.33	-8.98	-8.34	-1.59	3.64	0.48	-1.01	-9.37	-10.7	-4.64	-3.66	-30.72
105	-20.1	-10.34	-11.08	-8.05	-0.35	6.27	3.14	2.15	-4.1	-10.77	-9.15	-4.24	-30.72
120	-13.21	-11.44	-11.56	-11.7	-1.29	5.26	2.29	-1.79	-6.26	-6.77	-11.92	-5.45	-30.72
135	-9.87	-13.46	-8.29	-11.81	-3.72	4.8	3.27	-3.62	-19.04	-13.33	-8.19	-6.75	-30.72
150	-7.81	-16.57	-5.59	-5.11	0.14	5.24	2.86	-0.17	-6.64	-14.68	-8.69	-10.26	-30.72
165	-6.47	-21.38	-4	-3.63	-0.71	1.54	-3.76	-3.6	-13.69	-13.38	-10.63	-15.17	-30.72
180	-5.8	-18.46	-4.98	-4.52	-1.42	3.79	1.35	-1.8	-8.59	-9.39	-13.98	-21.31	-30.72
195	-5.73	-15.51	-9.14	-17.18	-3.23	0.91	0.51	-5.25	-12.49	-6.8	-19.86	-20.36	-30.72
210	-6.27	-16.16	-9.13	-4.35	-4.59	-3.02	-0.73	-1.85	-5	-7.42	-17.18	-15.94	-30.72
225	-7.48	-23.66	-8.42	-2.32	-4.57	-2.38	-2.57	-3.35	-7.17	-9.99	-14.6	-12.86	-30.72
240	-9.56	-21.06	-13.77	-5.69	-3.19	-2.51	-1.01	-5.37	-12.86	-36.55	-14.27	-10.37	-30.72
255	-13.68	-12.1	-14.92	-15.1	-6.8	-1.79	-0.83	-4.57	-10.63	-14.52	-17.71	-7.25	-30.72
270	-22.86	-9.49	-8.13	-8.46	-6.85	-3.35	-4.52	-8.09	-19.03	-18.24	-17.35	-7.87	-30.72
285	-22.07	-10.55	-8.83	-12.92	-5.63	-2.55	-2.5	-7.26	-18.4	-22.44	-25.18	-10.04	-30.72
300	-13.44	-13.4	-11.39	-7.3	-3.99	-1.45	-4.01	-13.57	-20.22	-20.6	-39.23	-15.14	-30.72
315	-9.77	-10.31	-7.17	-3.41	-4.85	1.09	-0.1	-2.81	-14.31	-15.99	-45.61	-24.59	-30.72
330	-8.02	-5.47	-4.07	-6.41	-12.51	0.48	-0.34	-6.69	-10.7	-8.74	-16.8	-30.72	-30.72
345	-7.15	-2.95	-1.9	-7.36	-3.52	2.96	0.73	-4.14	-12.16	-10.48	-10.87	-15.07	-30.72

Ant2													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.4	-2.95	-4.18	-2.79	-3.19	-1.05	-4.64	-9.27	-6.9	-10.64	-10.73	-17.52	-27.49
15	-8.14	-1.38	-0.82	-1.71	-5.05	-7.53	-4.39	-5.39	-11.71	-13.53	-15.2	-27.49	-27.49
30	-7.66	-0.42	2.47	0.2	-6.21	0.03	-2.27	-3.75	-10.79	-16.73	-19.11	-25.86	-27.49
45	-7.65	-0.15	3.3	2.63	-1.43	-0.68	-2.81	-13.82	-23.86	-26.95	-28.16	-16.39	-27.49
60	-7.98	-0.6	2.31	1.26	-1.77	-1.84	-4.22	-4.77	-10.9	-18.44	-25.73	-18.31	-27.49
75	-8.53	-1.84	-0.44	-2.04	-2.85	-0.11	-2.24	-3.97	-11.25	-8.61	-26.2	-14.6	-27.49
90	-9.77	-4.26	-2.67	-0.77	-1.63	0.22	-4.31	-4.73	-6.23	-8.04	-13.19	-12.05	-27.49
105	-11.99	-9.46	-6.85	-3.28	-5.22	-2.24	0.15	-1.32	-5.78	-17.93	-11.04	-12.32	-27.49
120	-16.13	-27.72	-9.73	-5.65	-3.98	0.75	-0.12	-0.52	-8.26	-13.43	-14.26	-12.67	-27.49
135	-20.05	-12.12	-6.4	-3.85	-6.47	-2.09	-3.75	-7.27	-10.84	-8.65	-14.14	-17.52	-27.49
150	-15.35	-6.94	-5.65	-4.31	-7.5	-7.8	-11.39	-10.28	-9.53	-13.42	-9.2	-17.64	-27.49
165	-11.37	-4.65	-6.97	-10.74	-16.19	-8.91	-7.82	-6.09	-9.51	-14.2	-9.01	-13.29	-27.49
180	-8.61	-3.54	-7.66	-32.09	-7.93	-2.45	-5.96	-2.81	-7.9	-7.46	-13.64	-10.81	-27.49
195	-7.2	-3.78	-6.04	-15.95	-6.87	0.34	-4.54	-1.66	-7.9	-4.39	-8.28	-7.49	-27.49
210	-6.46	-5.69	-4.62	-15.91	-12.38	-3.49	-5.7	-4.66	-7.03	-10.26	-8.85	-4.86	-27.49
225	-6.38	-8.37	-3.9	-8.8	-6.42	-3.49	0.34	-1.46	-1.03	-4.44	-7.23	-2.57	-27.49
240	-7.07	-8.9	-2.16	-1.46	-8.4	-1.16	1.13	2.14	2	-0.16	-2.52	0.2	-27.49
255	-8.38	-7.53	-3.51	-1.19	-11.38	-3.08	-5.14	-0.39	0.99	1.71	-3.9	1.59	-27.49
270	-10.72	-7.61	-14.77	-5.99	-14.05	-6.55	-0.73	1.89	0.36	-5.29	-4.83	0.83	-27.49
285	-14.43	-8.74	-10.27	-2.33	-8.04	-4.67	-12.43	-2.1	0.7	-11.96	-3.22	0.67	-27.49
300	-20.45	-8.33	-4.82	-0.68	-4.25	-5.36	-1.24	-0.65	-2.47	-5.5	-7.17	0.35	-27.49
315	-20.52	-7	-5.11	-2.53	-2.39	-9.51	-18.53	-0.75	-4.72	-4.74	-12.4	-2.02	-27.49
330	-14.95	-5.73	-5.3	-4.48	-4.03	-9.02	-17.26	-1.76	-4.21	-3.67	-10.38	-4.35	-27.49
345	-11.35	-4.53	-6.08	-4.96	-4.32	0.4	-1.86	-3.13	-4.64	-5.53	-11.66	-7.39	-27.49

Ant3													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.97	-10.77	-6.99	-4.52	-3.33	0.63	-1.58	-8.36	-12.68	-14.31	-9.44	-17.37	-25.7
15	-5.63	-12.4	-12.14	-8.69	-4.9	-0.2	-0.23	-3.96	-6.84	-10.86	-15.06	-25.7	-25.7
30	-7.05	-15.35	-12.88	-7.83	-9.27	-2.71	-0.07	-2.3	-5.34	-10.45	-20.73	-25.55	-25.7
45	-9.58	-19.41	-7.13	-4.31	-12.22	-5.63	-3.71	-5.27	-5.86	-9.02	-10.12	-18.84	-25.7
60	-13.95	-26.94	-8.56	-12.11	-10.41	-2.72	-0.96	-6.74	-11.96	-18.59	-13.37	-11.82	-25.7
75	-25.27	-26.03	-15.74	-1.11	-1.83	2.55	2.2	-3.6	-10.75	-10.94	-24.83	-13.79	-25.7
90	-18.73	-19.08	-15.3	-12.72	-2.96	1.97	1.5	-2.56	-8.32	-12.31	-19.65	-16.97	-25.7
105	-11.63	-15.07	-8.9	-15.41	-5.47	-0.69	-3.54	-29.92	-14.41	-9.25	-16.29	-19.47	-25.7
120	-8.11	-13.17	-7.92	-11.68	-5.1	-0.24	-0.65	-6.77	-32.06	-14.1	-17.23	-22.01	-25.7
135	-6.25	-11.23	-15.27	-7.36	-1.1	0.94	-1.22	-8.71	-18.16	-22.76	-19.32	-19.07	-25.7
150	-5.38	-9.15	-11.21	-4.08	-3.74	0.88	-1.18	-4.3	-11.51	-17.81	-20.88	-14.24	-25.7
165	-5.09	-7.56	-5.99	-4.55	-2.07	4.3	1.26	-10.81	-13.6	-9.95	-20.73	-11.35	-25.7
180	-5.4	-6.3	-5.74	-8.68	-3.7	2.88	0.95	-4.24	-16.61	-9.67	-24.2	-9.01	-25.7
195	-6.65	-5.54	-7.03	-6.01	-0.73	5.74	3.02	-3.33	-13.31	-20.13	-27.97	-11.39	-25.7
210	-8.86	-5.96	-8.33	-3.95	-1.35	4.86	3.06	-3.63	-21.4	-9.18	-23.86	-9.62	-25.7
225	-12.6	-7.53	-7.42	-8.31	-4.73	4.55	3.79	-1.22	-13.41	-12.23	-18.97	-11.31	-25.7
240	-20.16	-8.64	-8.37	-14.02	-4.54	4.91	3.37	-0.51	-7.74	-13.02	-19.02	-9.81	-25.7
255	-28.37	-9.7	-9.85	-11.02	-1.74	4.76	4.15	2.17	-6	-7.89	-25.42	-5.89	-25.7
270	-14.88	-12.53	-13.51	-10.68	-1.25	4.23	2.56	-2.26	-13.97	-10	-13.69	-5.84	-25.7
285	-10.05	-20.8	-13.65	-19.29	-4.41	2.47	-0.5	-2.03	-3.32	-11.69	-9.31	-6.59	-25.7
300	-7.51	-20.71	-20.06	-15.71	-2.97	3.63	2.06	-1.5	-4.38	-11.27	-12.26	-8.59	-25.7
315	-6.02	-12.52	-16.07	-21.49	-5.29	3.79	2.59	-2.07	-15.08	-11.53	-10.99	-13.81	-25.7
330	-5.14	-10.48	-9.83	-7.31	-1.62	4.02	2.07	-3.75	-13.74	-11.99	-7.48	-18.47	-25.7
345	-4.75	-10.24	-6.64	-4.21	-1.86	1.2	-1.49	-9.39	-9.31	-18.42	-7.49	-22.27	-25.7

Ant4													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.77	-4.65	-12.87	-14.05	-4.82	-4.45	-0.57	-8.2	-6.33	-2.06	-2.94	-9.03	-17.34
15	-13.43	-4.05	-17.86	-17.43	-14.44	-4.97	2.08	-1.83	-2.71	-0.01	-3.39	-12.67	-17.34
30	-14.52	-4.18	-12.3	-23.62	-15.77	-6.43	1.47	-1.59	-0.18	-0.14	-2.65	-17.34	-17.34
45	-16.27	-5.26	-7.77	-9.23	-8.85	-0.96	-0.32	-1.03	-4.27	-6.26	-10.12	-12.18	-17.34
60	-17.51	-7.1	-7.19	-4.95	-10.05	0.68	-0.29	0.8	-2.86	-9.24	-8.38	-5.79	-17.34
75	-16.87	-9.4	-11.1	-11.01	-7.15	-6.27	0.77	1.41	2.92	-1.69	0.57	-0.16	-17.34
90	-15.62	-11.93	-13.36	-6.8	-12.82	-6.75	-1.27	0.19	1.38	1.09	1.95	1.95	-17.34
105	-13.86	-14.69	-9.78	-12.41	-3.38	-3.53	-1.63	-4.11	-12.83	-1.28	0.44	1.81	-17.34
120	-12.68	-18.97	-6.66	-7.44	-5.46	-2.42	1.04	1.68	-2.95	-8.51	-1.81	0.84	-17.34
135	-11.49	-20.13	-5.26	-4.33	-6.48	-5.73	-1.46	-2.13	-3.22	-13.11	-5.62	-0.16	-17.34
150	-10.47	-15.69	-5.74	-3.58	-5.48	-8.91	-12.25	-6.28	-3.97	-6.73	-9.58	-2.34	-17.34
165	-9.77	-11.28	-7.09	-1.23	-1.03	-1.06	-1.32	-6.41	-2.19	-5.38	-8.46	-5.4	-17.34
180	-9.18	-8.33	-5.57	-1.78	-2.71	-1.95	-6.49	-13.19	-5.94	-7.56	-6.49	-8.04	-17.34
195	-9.03	-6.55	-1.85	-0.87	-2.73	-7.71	-5.05	-10.26	-9.28	-9.53	-6.52	-10.92	-17.34
210	-9.48	-5.55	0.63	3.51	1.03	-0.08	-1.26	-4.19	-7.9	-17.78	-10.89	-12.24	-17.34
225	-10.37	-5.24	0.32	3.62	1.67	1.19	-3.83	-7.49	-8.68	-17.43	-11.99	-12.21	-17.34
240	-11.72	-5.3	-2.16	-0.03	-2.02	-4.49	-3.84	-7.68	-9.68	-14.2	-9.52	-10.67	-17.34
255	-13.24	-6.46	-5.84	-3.64	-2.06	0.13	-1.27	-8.82	-20.83	-14.72	-8.81	-7.54	-17.34
270	-14.09	-8.78	-11.96	-3.04	-1.27	-1.83	-1.42	-4.57	-14.39	-14.55	-10.82	-4.48	-17.34
285	-13.36	-12.81	-11.52	-2.4	-3.69	-2.93	-0.91	-3.31	-10.03	-17.17	-16.54	-4.74	-17.34
300	-12.35	-15.17	-9.74	-3.96	-11.05	-5.84	-2.55	-5.81	-8.82	-17.02	-16.24	-6.48	-17.34
315	-11.56	-10.81	-11.58	-8.09	-11.31	-4.93	-9.19	-11.09	-6.85	-5.36	-13.78	-8.74	-17.34
330	-11.36	-7.57	-22.69	-13.19	-13.46	-10.46	-20.12	-16.17	-11.28	-6.79	-8.84	-9.21	-17.34
345	-12.01	-5.66	-16.18	-20.91	-4.71	-4.43	-1.11	-7.49	-16.71	-8.95	-2.84	-8.13	-17.34

Composite Gain													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.01	1.42	0.4	-0.42	2.7	6.47	4.89	-0.9	-3.82	-3.78	-1.39	-6.27	-17.75
15	-2.15	1.75	-0.07	-1.18	0.62	5.5	6.25	2.82	-0.75	-1.84	-3.49	-8.08	-17.75
30	-2.91	1.47	1.54	0.69	-3.54	5.26	6.66	4.48	1.66	-1.95	-6.1	-7.11	-17.75
45	-4.32	0.73	2.75	4.01	-0.91	5.44	6.28	3.88	-0.64	-5.15	-6.85	-3.49	-17.75
60	-6.34	-0.49	1.04	1.99	-1.45	5.38	5.82	4.96	-0.95	-7.8	-5.55	-1.15	-17.75
75	-8.97	-1.93	-1.9	-1.34	2.73	7.03	7.42	5.58	2.4	-0.37	-0.87	0.53	-17.75
90	-9.96	-3.62	-2.63	-0.06	2.28	6.57	5.39	4.18	1.53	0.27	0.67	1.21	-17.75
105	-7.8	-6.01	-2.99	-2.55	2.67	6.89	5.9	2.91	-2.18	-1.81	-0.75	0.8	-17.75
120	-6.02	-9.88	-2.75	-2.69	2.22	7.33	6.74	4.68	-1.89	-4.12	-3.12	-0.23	-17.75
135	-4.63	-7.61	-2.04	-0.29	1.87	6.35	3.98	0.99	-4.35	-7.14	-4.31	-1.48	-17.75
150	-3	-5.1	-0.73	1.77	2.35	5.34	2.85	1.52	-1.42	-6.13	-4.91	-3.12	-17.75
165	-1.8	-3.33	0.1	1.62	2.77	6.19	3.72	-0.34	-2.34	-3.97	-5.05	-4.45	-17.75
180	-1.07	-1.66	0.09	-0.91	2.4	7.03	4.25	1.47	-2.93	-2.44	-6.53	-5	-17.75
195	-1.05	-0.85	0.43	-1.4	2.9	7.04	5.17	1.44	-4.44	-2.54	-6.03	-5.42	-17.75
210	-1.63	-1.38	1.57	3.22	2.96	6.27	5.4	2.51	-2.53	-4.37	-7.44	-3.7	-17.75
225	-2.85	-3.01	1.87	3.61	3.11	6.58	5.96	2.97	-0.41	-3.77	-6.15	-2.57	-17.75
240	-4.93	-3.35	0.61	2.15	1.79	5.98	6.33	4.01	0.92	-3.01	-3.17	-0.25	-17.75
255	-7.49	-2.67	-1.52	-0.06	1.34	6.57	5.89	4.06	0.03	-0.03	-4.55	2.15	-17.75
270	-8.63	-3.4	-5.69	-0.55	1.52	5.08	5.36	3.52	-2.24	-4.66	-4.41	2.32	-17.75
285	-7.98	-6.17	-4.87	-0.64	0.73	4.54	3.03	2.59	0.83	-8.79	-4.18	1.74	-17.75
300	-6.28	-7.29	-3.95	0.64	0.97	4.65	4.89	1.91	-0.84	-5.69	-7.46	0.27	-17.75
315	-4.56	-3.9	-3.01	-0.44	0.62	5.06	2.93	2.63	-3.07	-2.25	-8.73	-2.97	-17.75
330	-3.1	-1.07	-2.13	-1.28	-0.41	4.35	1.82	0.36	-3.18	-1.26	-4.21	-5.19	-17.75
345	-2.27	0.57	-0.35	-1.41	2.49	6.45	5.15	0.34	-3.6	-3.71	-1.46	-5.41	-17.75

Ant1													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-8.74	-4.92	-6.39	-20.79	-2.53	2.79	3.41	-3.71	-20.1	-15.9	-8.13	-9.65	-21.09
15	-8.21	-5.64	-6.52	-10.4	-2.28	2.61	2.75	-2.75	-8.85	-21.84	-9.64	-7.3	-21.09
30	-8.28	-7.94	-5.14	-7.35	-10.17	0.99	3.31	0.49	-4.43	-11.34	-15.05	-4.83	-21.09
45	-8.88	-11.01	-5.16	-3.22	-5	2.5	5.02	3.1	-2.49	-9.46	-16.7	-3.13	-21.09
60	-9.9	-12.65	-11.16	-6.4	-9.5	-0.63	3.88	2.71	-6.07	-29.07	-14.25	-2.28	-21.09
75	-11.32	-13.75	-15.16	-7.81	-3.57	1.34	2.9	1.52	-6.17	-7.01	-5.81	-2.57	-21.09
90	-13.69	-15.75	-17.04	-9.4	-1.93	0.64	1.47	-0.6	-11.05	-7.28	-3.61	-3.56	-21.09
105	-16.06	-18.23	-44.67	-4.5	-1.1	4.01	2.98	0.03	-9.34	-2.49	-5.93	-4.17	-21.09
120	-15.62	-20.72	-20.18	-6.22	-2.1	4.3	1.45	-2.78	-10.26	-10.88	-11.46	-5.64	-21.09
135	-13.02	-20.14	-14.36	-20.33	-1.43	4.79	2.75	-8.16	-14.6	-13.62	-11.14	-7.05	-21.09
150	-10.37	-20.31	-10.21	-5.36	-0.56	5.69	2.61	-3.2	-7.27	-21.49	-12.28	-9.59	-21.09
165	-8.81	-25.69	-6.13	-2.36	0.27	2.47	-1.7	-6.15	-13.99	-28.91	-12.34	-12.41	-21.09
180	-7.8	-23.18	-5.9	-1.98	-1.35	2.98	1.07	-2.7	-9.85	-18.41	-14.53	-15.93	-21.09
195	-7.14	-22.77	-11.33	-8.61	-1.48	3.21	1.46	-3.83	-11.09	-14.36	-15.52	-17.18	-21.09
210	-6.98	-21.4	-12.35	-6.17	-6.42	-1.75	-0.4	-2.9	-6.24	-14.08	-16.99	-13.89	-21.09
225	-7.45	-15.66	-14.42	-3.49	-5.95	-3.3	-2.38	-4.2	-8.57	-18.05	-22.55	-11.57	-21.09
240	-8.68	-11.36	-18.04	-13.73	-5.95	-2.03	0.4	-3.81	-10.87	-21.96	-21.75	-10.47	-21.09
255	-11.1	-9.32	-7.7	-9.09	-5.29	1.23	0.7	-4.28	-10.92	-19.37	-18.78	-8.13	-21.09
270	-14.38	-9.28	-6.51	-8.44	-6.92	-4.05	-3.48	-6.77	-17.81	-20.73	-22.75	-9.14	-21.09
285	-17.68	-11.29	-9.5	-10.86	-4.05	-0.48	-1.7	-6.22	-16.93	-20.76	-24.43	-10.41	-21.09
300	-17.93	-12.79	-9.53	-4.2	-5.18	-2.57	-2.64	-12.41	-24.59	-29.02	-21.4	-14.05	-21.09
315	-14.15	-9.9	-7.11	-6.05	-7.38	0.74	-1.19	-7.28	-14.74	-13.47	-22.09	-21.09	-21.09
330	-11.26	-6.53	-6.72	-15.5	-7.24	0.51	2.14	-4.31	-10.48	-9.68	-12.51	-17.43	-21.09
345	-9.85	-5.08	-6.21	-12.37	-2.73	2.63	1.12	-5.03	-12.17	-12.04	-9.87	-11.6	-21.09

Ant2													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.23	-5.55	-5.73	-2.15	-3.19	-1.9	-2.98	-6.14	-10.33	-10.22	-13.86	-16.51	-21.67
15	-7.67	-3.73	-2.85	-0.9	-4.91	-25.08	-8.56	-14.9	-28.56	-21.68	-18.19	-16.9	-21.67
30	-6.68	-2.64	0.72	0.91	-3.63	-2.05	-2.23	-3.82	-10.62	-14.11	-19.13	-12.73	-21.67
45	-6.32	-2.5	2.64	1.76	-4.42	-1.46	-3.59	-9.7	-21.16	-27.55	-15.01	-9.01	-21.67
60	-6.55	-2.94	2.31	1.47	-2.45	-0.99	-3.19	-6.25	-9.92	-12.55	-11.48	-11.83	-21.67
75	-7.19	-3.82	0.33	-1.27	-5.52	-2.48	-3.83	-4.54	-16.45	-7.2	-15.33	-21.67	-21.67
90	-8.86	-5.5	-2.19	-1.85	-3.46	-0.64	-3.47	-3.35	-7.71	-7.48	-19.05	-19.36	-21.67
105	-11.82	-9.09	-6.85	-4.52	-6.04	-3.8	-2.06	-1.97	-10.35	-18.37	-14.9	-15.34	-21.67
120	-17.54	-15.5	-11.07	-7.79	-3.48	-0.02	-1.08	-0.67	-8.08	-13.57	-17.19	-12.51	-21.67
135	-27.09	-14.69	-7.37	-6.53	-6.07	-2.84	-3.65	-5.35	-12.17	-8.77	-15.42	-14.4	-21.67
150	-16.35	-10.38	-5.62	-4.95	-12.01	-7.65	-6.36	-14.91	-9.01	-13.18	-10.18	-13.15	-21.67
165	-10.98	-8.19	-5.19	-8.67	-14.12	-6.72	-6.3	-6.3	-10.28	-11.93	-9.62	-10.29	-21.67
180	-7.98	-7.57	-5.2	-18.62	-7.42	-1.13	-4.98	-2.82	-8.25	-6.13	-18.5	-8.79	-21.67
195	-6.53	-8.7	-5.38	-25.04	-7.99	-0.1	-6.06	-3.54	-10.36	-6.04	-10.22	-6.91	-21.67
210	-5.79	-11.37	-4.84	-12.48	-7.27	-2.16	-1.12	-6.17	-8.96	-16.82	-9.93	-4	-21.67
225	-5.72	-9.3	-3.97	-9.73	-6.1	-3.72	2.05	0.58	-1.56	-5.41	-7.33	-2.41	-21.67
240	-6.26	-6.15	-2.51	-2.13	-12.37	-1.91	0.79	1.32	0.22	-1.28	-4.11	0.31	-21.67
255	-7.45	-5.42	-4.01	-1.72	-9.4	-4.99	-4.71	0.41	-0.38	0.24	-5.42	1.74	-21.67
270	-9.82	-7.1	-13.84	-9.88	-26.06	-10.41	-1.03	2.27	0.02	-7.06	-6.05	0.9	-21.67
285	-13.86	-9.84	-11.97	-3.35	-7.06	-7.94	-8.66	-1.54	0.04	-8.76	-5.51	1.28	-21.67
300	-20.51	-9.57	-10.42	-5.4	-4.78	-12.07	-0.69	-0.2	-4.4	-5.69	-12.39	0.87	-21.67
315	-22.9	-7.96	-8.2	-9.01	-1.43	-2.2	-9.28	-2.67	-7.41	-6.11	-14.63	-2.29	-21.67
330	-15.23	-7.26	-5.73	-5.48	-2.81	-4.44	-6.66	-7.46	-6.05	-4.16	-9.56	-4.93	-21.67
345	-11.43	-6.89	-4.91	-3.21	-4.33	-2.23	-1.65	-4.05	-7.37	-4.77	-14.63	-9.56	-21.67

Ant3													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.33	-13.72	-7.3	-4.78	-3.53	-0.21	-2.33	-6.94	-10.97	-18.33	-9.91	-29.19	-29.19
15	-7.01	-16.23	-10.91	-8.62	-4.12	0.18	-0.93	-2.99	-6.29	-11.98	-14.82	-23.09	-29.19
30	-8.29	-19.84	-14.22	-12.65	-14.51	-2.67	0.31	-1.99	-4.91	-14.1	-20.81	-19.97	-29.19
45	-10.31	-26.73	-10.59	-6	-15.31	-5.44	-2.34	-5.86	-8.26	-12.41	-14.35	-13.9	-29.19
60	-13.42	-30.8	-12.52	-12.6	-7.16	-3.08	-1.97	-8.05	-21.39	-23.23	-16.06	-8.89	-29.19
75	-18.43	-21.54	-14.18	-15.67	-1.49	2.8	2.61	-2.16	-12.65	-13.61	-18.01	-11.39	-29.19
90	-20.93	-16.71	-15.36	-13.09	-3.16	1.55	0.34	-4.78	-12.17	-19.64	-36.6	-14.65	-29.19
105	-14.68	-13.22	-13.68	-16.45	-5.89	-0.66	-2.2	-12.64	-18.94	-15.92	-22.95	-15.88	-29.19
120	-10.6	-11.03	-15.37	-7.85	-4.71	-1.46	-4.51	-13.67	-29.21	-24.73	-20.26	-15.51	-29.19
135	-8.23	-8.76	-15.08	-4.95	-1.98	0.47	-1.49	-7.77	-22.26	-22.05	-19.39	-14.97	-29.19
150	-7.13	-6.65	-6.83	-4.8	-4.13	1.8	-0.08	-6.38	-14.55	-23.92	-22.9	-12.9	-29.19
165	-6.64	-5.12	-4.52	-5.4	-3.13	1.84	-1.73	-16.34	-11.2	-13.6	-29.81	-12.69	-29.19
180	-6.82	-4.77	-5.2	-10.1	-2.57	2.89	2.58	-4.31	-21.85	-15.45	-25.26	-10.8	-29.19
195	-7.72	-5.38	-7.11	-4	0.18	4.96	2.85	-6.84	-19.44	-12.11	-25.21	-13.84	-29.19
210	-9.68	-6.07	-6.19	-3.99	-3.39	2.74	3.45	-1.99	-15.56	-7.07	-21.64	-11.86	-29.19
225	-12.75	-7.17	-6.08	-9.19	-4.78	3.79	4.75	0.98	-9.59	-12.06	-16.86	-12.15	-29.19
240	-18.39	-9.37	-6.44	-11.64	-2.02	4.23	3.02	-1.87	-14.77	-19.45	-21.33	-11.42	-29.19
255	-30.16	-12.34	-11.55	-6.98	-0.86	3.27	2.24	1.15	-8.4	-11.29	-18.18	-5.65	-29.19
270	-18.87	-17.25	-16.97	-5.76	-0.12	3.46	1.97	-3.02	-10.92	-9.25	-20.21	-4.97	-29.19
285	-12.8	-30.15	-20.61	-13.23	-1.87	0.99	-1.42	-5.64	-2.64	-8.96	-10.35	-5.74	-29.19
300	-9.88	-16.21	-23.21	-7.69	-2.55	2.99	1.26	-2.49	-4.67	-9.84	-13.12	-7.82	-29.19
315	-7.99	-12.2	-24.61	-11	-3	4.17	1.9	-6.7	-20.52	-13.81	-15.5	-10.79	-29.19
330	-6.77	-11.53	-13.81	-15.34	-1.39	4.53	2.65	-4.64	-10.58	-12.83	-10.42	-14.33	-29.19
345	-6.24	-11.98	-8.21	-6.24	-1.1	2.53	-1.84	-10.35	-7.85	-10.88	-10.13	-22.6	-29.19

Ant4													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.98	-7.81	-24.51	-15.65	-8.94	-5.48	-3.41	-7.18	-5.45	-2.96	-2.67	-6.88	-18.66
15	-25.05	-6.41	-13.53	-22.51	-10.45	-4.3	2.41	0.28	-1.07	-1	-3.27	-9.44	-18.66
30	-21.85	-5.7	-7	-15.4	-10.41	-2.55	3.35	1.38	0.69	-1.6	-2.85	-11.4	-18.66
45	-17.23	-6.14	-4.58	-7.29	-4.58	0.36	-0.45	-2.47	-6.14	-7.88	-12.57	-7.81	-18.66
60	-13.6	-8	-6.66	-4.16	-8.89	-0.48	-0.66	-0.27	-2.71	-12.89	-7.78	-2.84	-18.66
75	-11.45	-10.28	-9.61	-8.08	-7.17	-6.27	-2.4	-0.23	1.91	-0.94	-0.64	1.45	-18.66
90	-10.48	-13.62	-9.02	-10.51	-17.33	-9.49	-3.28	-0.61	0.96	1.6	0.67	2.52	-18.66
105	-9.92	-22.18	-8.93	-8.5	-3.79	-5.02	-3.33	-6.3	-9.5	-1.88	-1.14	1.7	-18.66
120	-9.84	-19.43	-6.72	-6.91	-5.59	-3.16	-1.02	2.37	-3.21	-10.96	-3.92	0.38	-18.66
135	-10.17	-13.31	-4.05	-1.01	-1.83	0.19	-7.52	0.02	-3.01	-17.49	-8.7	-0.94	-18.66
150	-11.05	-11.17	-3.91	-1.43	-4.94	-3.81	-11.98	-6.35	-4.66	-7.82	-16.1	-3.05	-18.66
165	-12.39	-10.43	-5.66	-1.73	-2.75	-2.45	-3.04	-6.84	-4.69	-6.32	-12.9	-6.48	-18.66
180	-14.02	-9.45	-10.48	-2.27	-1.76	0.01	-2.76	-10.66	-8.28	-9.52	-8.79	-10.7	-18.66
195	-17.38	-7	-5.99	-3.76	-4.22	-6.17	-33.69	-18.12	-17.88	-9.34	-7.57	-14.01	-18.66
210	-23.52	-5.28	-0.62	-0.02	-3.78	-7.09	-4.2	-5.48	-11.01	-15.03	-12.08	-18.66	-18.66
225	-57.06	-4.58	0.82	2.92	0.57	1.33	-0.55	-6.26	-11.39	-22.68	-12.42	-17.8	-18.66
240	-22.6	-4.39	-0.89	0.05	-0.3	-1.63	-8.92	-6.6	-8.15	-15.19	-8.87	-16.47	-18.66
255	-16.43	-4.76	-4.54	-4.34	-4.35	-0.96	-1.92	-12.77	-28.53	-14.19	-11.4	-11.48	-18.66
270	-13.89	-5.63	-7.39	-5.6	-2.14	-1.68	-4.64	-5.82	-10.59	-10.97	-18.34	-7.62	-18.66
285	-12.34	-7.39	-11.17	-11.38	-4.47	-3.63	-2.09	-4.08	-9.87	-11.47	-14.04	-8.24	-18.66
300	-11.69	-9.33	-19.72	-7.85	-7.69	-5.13	-5.73	-9.01	-12.18	-17.87	-20	-9.77	-18.66
315	-11.77	-10.52	-18.02	-5.95	-13.21	-6.18	-8.13	-18.73	-8.89	-7.22	-13.37	-10.73	-18.66
330	-12.57	-10.31	-16.29	-7.78	-8.38	-16.58	-10.4	-12.47	-12.16	-10.86	-6.58	-9.23	-18.66
345	-15.09	-9.4	-23.09	-15.01	-6.26	-5.27	-2.39	-7.82	-13.35	-8.27	-1.97	-6.79	-18.66

Composite Gain													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.79	-1.37	-2.58	-1.87	1.81	5.32	5.18	0.14	-4.3	-3.74	-1.67	-6.32	-15.86
15	-3.72	-0.89	-1.48	-1.68	1.06	3.58	5.94	2.44	-1.08	-3.7	-3.61	-6.18	-15.86
30	-3.65	-1.12	1.14	-0.26	-2.75	4.58	7.5	5.27	2.09	-2.52	-5.21	-4.63	-15.86
45	-3.84	-2.1	2.9	3.07	-0.33	5.47	6.35	3.57	-1.32	-5.84	-8.51	-1.62	-15.86
60	-4.35	-3.27	1.14	1.99	-0.51	4.78	5.97	4.13	-1.76	-10.96	-5.8	0.44	-15.86
75	-5.23	-4.16	-1.22	-0.77	1.84	5.54	6.34	4.95	0.51	-0.05	-1.22	1.13	-15.86
90	-6.41	-5.61	-2.84	-1.59	1.22	4.95	5.06	3.87	0.23	0.67	-0.6	1.18	-15.86
105	-6.77	-8.3	-5.81	-1.33	2.05	5.39	5.24	2	-5.25	-4.86	-1.76	0.69	-15.86
120	-6.79	-9.8	-5.94	-1.15	2.15	6.4	4.98	4.01	-2.93	-7.57	-4.89	-0.13	-15.86
135	-6.33	-7.3	-2.96	0.1	3.38	7.11	4.33	1.37	-4.32	-8.12	-6.74	-1.36	-15.86
150	-4.62	-4.88	-0.33	2.03	1.49	6.47	3.73	-0.76	-2.16	-8.25	-8.17	-2.61	-15.86
165	-3.41	-3.76	0.66	1.89	2.46	5.53	3.01	-2.03	-3.33	-6.19	-7.63	-4.07	-15.86
180	-2.73	-3.09	-0.42	-0.02	3.05	7.39	5.5	1.43	-4.62	-5.06	-8.82	-5.17	-15.86
195	-2.75	-2.95	-1.15	-1.38	3.16	7.41	3.78	-0.5	-7.78	-3.88	-6.48	-6.09	-15.86
210	-3.38	-3.12	0.96	1.43	0.96	4.63	5.88	2.06	-3.8	-6.36	-8.05	-4.4	-15.86
225	-4.63	-2.3	1.65	2.74	2.42	6.12	7.41	4.32	-0.87	-6.16	-7.06	-3.12	-15.86
240	-5.61	-1.38	1.03	1.04	1.95	6.13	5.83	3.76	-0.51	-4.27	-4.8	-1.14	-15.86
255	-7.09	-1.43	-0.45	0.93	1.56	6.16	5.48	3.61	-1.63	-1.92	-5.66	1.59	-15.86
270	-7.64	-2.82	-4.12	-1.22	1.09	4.19	4.6	3.45	-1.36	-4.71	-8.07	1.72	-15.86
285	-7.92	-5.58	-6.41	-2.77	1.85	3.88	3	1.84	0.85	-5.36	-5.25	1.45	-15.86
300	-7.94	-5.53	-7.88	-0.13	1.16	3.4	4.44	1.29	-2.55	-5.98	-9.82	0.15	-15.86
315	-6.71	-3.99	-5.9	-1.73	0.83	5.96	3.08	-1.18	-5.49	-3.44	-9.81	-2.88	-15.86
330	-4.88	-2.65	-3.51	-3.88	1.55	4.84	4.61	-0.65	-3.48	-2.72	-3.48	-4.16	-15.86
345	-4.06	-1.94	-2.41	-1.96	2.62	6.04	4.94	-0.46	-3.78	-2.51	-1.86	-4.98	-15.86

Ant1													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.22	-7.01	-10.17	-6.66	-0.9	4.3	3.9	-4.07	-24.74	-12.3	-10.15	-19.3	-26.25
15	-11.78	-8.55	-9.13	-4.5	-2.83	1.81	1.46	-6.87	-14.34	-9.45	-9.12	-15.53	-26.25
30	-12.02	-10.96	-6.32	-9.89	-6.44	1.44	2.64	-0.33	-4.04	-6.86	-7.4	-11.76	-26.25
45	-13.07	-14.76	-5.61	-23.02	-2.09	3.43	3.64	3	-1.08	-5.52	-8.21	-8.08	-26.25
60	-14.96	-18.23	-8.23	-23.93	-1.87	2.99	2.99	0.83	-5.86	-6.5	-13.73	-7.51	-26.25
75	-18.63	-16.72	-14.09	-8.29	-5.06	0.18	0.98	-1.39	-14.66	-12.19	-15.23	-6.07	-26.25
90	-24.72	-15.73	-19.6	-7.84	-2.72	-0.11	0.1	-2.58	-8.18	-12.23	-9.15	-5.4	-26.25
105	-28.87	-17.38	-13.9	-7.08	-1.57	-0.15	-0.49	-7.85	-14.37	-4.58	-8.25	-6.22	-26.25
120	-20.68	-24.3	-15.21	-4.84	-1.39	-0.32	-3.01	-12.04	-13.97	-7.63	-10.97	-7.79	-26.25
135	-16.01	-21.35	-13.76	-10.27	-1.47	3.15	0.69	-29.24	-9.58	-18.96	-17.98	-8.55	-26.25
150	-13.51	-17.35	-10.36	-8.25	0.79	4.59	1.2	-6.63	-10	-17.65	-24.27	-10.92	-26.25
165	-11.69	-15.92	-9.83	-4.82	0.95	3.21	-2.42	-11.4	-10.85	-9.34	-24.42	-13.56	-26.25
180	-10.73	-14.1	-7.89	-4.07	-0.77	0.78	-2.14	-7.34	-15.87	-16.14	-18.29	-17.29	-26.25
195	-10.65	-12.24	-9.75	-7.05	-1.48	-0.05	-1.8	-4.92	-11.39	-12.79	-18.13	-26.25	-26.25
210	-11.33	-11.04	-12.91	-16.96	-8.09	-4.38	-2.55	-2.98	-9.13	-9.64	-13.2	-23.33	-26.25
225	-12.73	-10.43	-13.28	-16.01	-11.35	-5.66	-4.98	-5.37	-9.14	-9.19	-12.14	-16.23	-26.25
240	-14.81	-12.12	-10.17	-9.86	-4.9	-0.28	0.16	-3.92	-10.18	-17.79	-15.81	-13.01	-26.25
255	-17.93	-16.47	-9.17	-5.73	-3.01	0.62	0.24	-4.13	-13.52	-21.01	-26.12	-11.73	-26.25
270	-23.9	-16.92	-13.91	-11.5	-8.01	-2.53	-2.03	-4.68	-14.71	-16.54	-28.7	-12.11	-26.25
285	-35.26	-12.04	-18.66	-9.05	-4.1	-2.61	-4.43	-12.43	-17.72	-16.56	-26.03	-15.7	-26.25
300	-22.96	-8.89	-13	-12.46	-7.44	-4.68	-8.32	-16.55	-19.46	-22.11	-17.84	-23.31	-26.25
315	-18.25	-7.42	-7.65	-8.38	-6.73	-3.46	-5.7	-9.63	-15.08	-16.31	-20.99	-17.98	-26.25
330	-14.98	-6.62	-6.38	-10.66	-2.77	2.48	1.39	-7.93	-18.57	-9.52	-19.71	-14.24	-26.25
345	-12.87	-6.32	-8.34	-15.39	-3.39	-1.06	-1.59	-9.82	-18.53	-17.08	-12.83	-16.61	-26.25

Ant2													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.17	-8.53	-7.89	-3.51	-6.25	-4.1	-0.67	-0.78	-6.11	-10.21	-21.67	-16.96	-26.53
15	-8.39	-7.03	-8.16	-3.28	-6.6	-5.26	-7.09	-6	-9.17	-18.96	-16.91	-16.69	-26.53
30	-7.47	-6.23	-3.48	-2.21	-5.74	-11.74	-9.94	-7.73	-12.65	-14.53	-13.06	-15.39	-26.53
45	-6.93	-6.57	-1.01	-0.38	-5.32	-5.27	-6.71	-4.91	-12.59	-16.84	-18.82	-9.08	-26.53
60	-7.03	-9.24	-1.57	-0.51	-4.62	-4.63	-5.55	-16.55	-13.26	-15.09	-19.68	-10.14	-26.53
75	-7.67	-13.44	-4.58	-3.26	-4.68	-3.04	-4.47	-8.05	-27.6	-13.03	-19.58	-13.47	-26.53
90	-9.23	-12.33	-4.17	-4.74	-2.87	-2.08	-4.34	-4.56	-8.7	-11.06	-12.98	-26.53	-26.53
105	-11.83	-11.12	-7.06	-8.07	-7.55	-3.26	-3.42	-5.78	-16.51	-11.34	-13.78	-20.63	-26.53
120	-16.3	-12.92	-19.65	-15.74	-8.43	-2.8	-1.28	-6.4	-11.09	-13.58	-36.1	-14.64	-26.53
135	-24.06	-20.68	-10.66	-8.66	-10.82	-2.4	-2.71	-11.77	-15.08	-10.46	-11.15	-16.11	-26.53
150	-18.11	-21.19	-4.73	-3.24	-11.41	-10.9	-11.13	-12.84	-17.42	-16.79	-9.12	-14.83	-26.53
165	-12.31	-13.59	-4.5	-5.77	-20.64	-12.79	-4.4	-2.94	-12.86	-10.09	-12.26	-10.98	-26.53
180	-9.26	-11.24	-7.32	-5.85	-7.62	-5.92	-7.04	-5.05	-12.02	-8.15	-22.52	-8.76	-26.53
195	-7.31	-9.28	-13.38	-5.92	-6.35	-4.18	-5.28	-3.63	-12.31	-15.32	-12.78	-9.69	-26.53
210	-6.44	-6.24	-20.43	-13.32	-9.15	-6.73	-1.88	-2.56	-6.95	-14.24	-10.07	-6.34	-26.53
225	-6.21	-4.36	-9.18	-1.24	-12.45	-3.64	1.48	-0.17	-2.05	-4.19	-7.44	-3.26	-26.53
240	-6.45	-4.83	-7.86	-7.51	-13.96	-3.7	-1.28	0.24	-0.55	-1.47	-3.68	-1.4	-26.53
255	-7.44	-8.45	-11.89	-20.99	-20.15	-16.93	-4.76	0.71	0.83	-2.31	-3.2	0.74	-26.53
270	-9.14	-20.03	-24.63	-15.07	-15.66	-12.54	-3.82	0.4	0.1	-7.2	-7.46	-1.43	-26.53
285	-12.2	-14.76	-13.16	-15.61	-10.41	-14.8	-5.94	-1.18	-3.14	-7.46	-14.48	-3.83	-26.53
300	-16.59	-10.16	-10.12	-6.8	-6.61	-10.27	-3.46	-0.64	-6.61	-11.88	-8.67	-8.63	-26.53
315	-22.87	-11.18	-10	-3.85	-4.65	-2.31	-0.73	-5.34	-12.34	-13.39	-5.27	-10.53	-26.53
330	-18.29	-11.96	-9.03	-3.27	-5.7	-2.64	-0.54	-9.5	-8.46	-6.7	-5.33	-11.78	-26.53
345	-13.2	-10.47	-7.32	-2.97	-8.35	-9.19	-2.91	-3.65	-5.53	-5.95	-10.09	-17.2	-26.53

Ant3													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.4	-9.84	-8.6	-4.66	-2.39	0.12	-1.27	-4.92	-8.19	-7.56	-15.84	-12.36	-28.62
15	-7	-10.1	-10.43	-6.16	-3.96	0.31	-2.55	-5.03	-12.15	-13.24	-18	-13.51	-28.62
30	-7.21	-10.37	-20.12	-31.79	-8.81	-2.78	-1.5	-2.67	-6.49	-11.53	-23.35	-16.23	-28.62
45	-7.9	-11.42	-13.6	-6.95	-28.84	-10.1	-5.75	-12.49	-14.33	-13.43	-17.9	-19.34	-28.62
60	-9.28	-14.29	-11.88	-5.5	-10.09	-2.73	-0.33	-5.7	-18.93	-30.33	-21.02	-19.02	-28.62
75	-11.07	-20.15	-11.85	-7.92	-4.05	0.49	0.38	-5.6	-10.87	-13.65	-18.71	-17.68	-28.62
90	-13.91	-26.69	-15.67	-14.21	-5.55	-1.29	-1.07	-11.67	-18.95	-19.31	-41.68	-17.11	-28.62
105	-17.35	-18.95	-20.49	-12	-8.25	-2.58	-6.21	-27.04	-11.35	-12.13	-43.96	-18.74	-28.62
120	-17.07	-14.91	-13.5	-5.92	-2.98	-3.59	-4.64	-16.83	-21.58	-27.31	-27.98	-19.81	-28.62
135	-13.22	-12.26	-7.02	-4.15	-4.36	-2.77	-6.21	-10.83	-21.39	-29.28	-29.46	-22.3	-28.62
150	-10.36	-11.09	-6.75	-6.85	-1.04	1.87	-1.73	-22.17	-12.38	-11.81	-19.17	-28.62	-28.62
165	-8.62	-12.09	-14.17	-6.21	-1.84	-0.45	-2.25	-9.64	-11.4	-8.96	-15.5	-26.22	-28.62
180	-7.45	-15.31	-16.17	-0.71	0.99	4.7	1.73	-11.44	-8.02	-7.41	-16.17	-22.87	-28.62
195	-6.96	-18.19	-9.76	-0.36	-1.77	2.46	-0.04	-6.32	-4.09	-2.69	-21.5	-21.3	-28.62
210	-7.06	-19.46	-10.1	-4.85	-2.83	2.65	2.69	-2.67	-5.19	-2.59	-14.33	-17.83	-28.62
225	-7.82	-20.44	-12.48	-10.62	-0.33	3.3	2.73	-2.74	-12.92	-4.99	-11.32	-15.34	-28.62
240	-9.24	-18.77	-15.66	-7.6	-0.6	2.59	0.74	-6.49	-14.75	-7.8	-10.44	-17.43	-28.62
255	-11.73	-16.5	-19.1	-3.65	-1.07	0.49	-2.12	-11.06	-13.7	-7.64	-13.87	-13.1	-28.62
270	-15.03	-15.7	-16.24	-2.21	-0.07	1.34	-1.92	-7.46	-13.2	-7.9	-13.47	-8.82	-28.62
285	-18.45	-16.84	-16.91	-8.11	-3.62	-3.18	-6.31	-11.68	-3.52	-7.51	-14.09	-5.24	-28.62
300	-16.52	-16.61	-13.47	-9.54	-1.89	-1.52	-3.37	-14.32	-6.05	-7.55	-7.47	-3.66	-28.62
315	-12.67	-13.17	-15.21	-11.01	-2.5	1.08	-3.18	-11.77	-6.1	-30.2	-12.93	-3.96	-28.62
330	-10.06	-11.45	-15.89	-7.7	-2.01	2.8	-0.64	-6.89	-5.37	-9.57	-15.45	-6.3	-28.62
345	-8.43	-10.41	-11.94	-11.85	0.02	3.62	-1.34	-4.83	-6.15	-5.51	-16.53	-9.45	-28.62

Ant4													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.43	-22.3	-16.15	-24.28	-7.71	-6.72	-4.58	-3.52	-5.3	-6.24	-8.18	-10.24	-22.99
15	-4.94	-23.79	-16.57	-16.93	-6.78	-0.72	-0.34	0.42	-3.14	-5.49	-8.21	-14.86	-22.99
30	-5.07	-16.77	-13.99	-7.04	-4.48	-0.28	-0.4	-0.83	-2.6	-9.03	-7.37	-14.02	-22.99
45	-5.56	-10.64	-18.02	-4.87	-5.88	-2.41	-2.9	-5.06	-7.63	-16.48	-20.12	-10.26	-22.99
60	-6.55	-7.64	-16.33	-5.31	-6.93	-3.39	-4.31	-4.64	-6.19	-8.42	-8.11	-3.47	-22.99
75	-7.93	-7.7	-10.69	-22.81	-7.16	-8.18	-5.95	-2.48	-0.1	-0.96	-1.86	0.01	-22.99
90	-9.54	-11.65	-5.61	-14.19	-13.6	-9.47	-11.07	-7.53	-1.2	0.71	-1.4	-0.12	-22.99
105	-10.7	-25.21	-4.77	-13.9	-7.38	-4.37	-3.29	-5.85	-7.95	-2.98	-4.77	-1.09	-22.99
120	-10.94	-13.29	-10.48	-3.78	-4.85	-2.62	-6.63	-2.06	-2.8	-15.05	-11.36	-2.24	-22.99
135	-10.22	-7.82	-12.2	-0.52	-1.1	-1.87	-1.01	-5.44	-1.97	-14.96	-33.61	-3.64	-22.99
150	-9.18	-5.92	-10.04	-3.85	-5.28	-4.55	-2.67	-10.08	-4.72	-8.08	-20.74	-6.53	-22.99
165	-8.14	-5.1	-9.11	-7.06	-7.34	-3.08	-1.27	-6.85	-4.55	-6.35	-12.91	-10.59	-22.99
180	-7.33	-4.91	-7.87	-4.56	-4.28	-0.81	0.1	-2.86	-4.36	-15.13	-8.15	-15.32	-22.99
195	-6.99	-5.07	-8.22	-3.77	-4.38	-5.53	-7.42	-6.74	-8.64	-18.62	-6.64	-22.99	-22.99
210	-6.95	-4.65	-6.45	-4.7	-2.05	-2.35	-5.64	-10.4	-14.56	-18.68	-12.36	-19.7	-22.99
225	-7.28	-3.94	-1.8	-1.37	-3.28	-3.56	-4.08	-6.83	-8.76	-19.89	-15.39	-15.29	-22.99
240	-8.19	-3.57	0.42	1.11	-1.82	-1.97	-4.82	-6.46	-10.78	-13.79	-8.8	-13.62	-22.99
255	-9.48	-3.54	-1.34	-2.4	-11.08	-6.19	-4.88	-8.96	-13.67	-18.93	-10.51	-12.52	-22.99
270	-10.86	-4.56	-5.18	-8.14	-6.38	-2.27	-2.91	-6.89	-10.54	-21.57	-19.52	-8.94	-22.99
285	-12.1	-6.57	-8.39	-6.7	-13.29	-5.88	-3.39	-6.55	-11.89	-19.84	-13.92	-9.66	-22.99
300	-12.14	-9.86	-11.5	-14.63	-9.36	-6.98	-7.81	-8.7	-14.01	-28.98	-14.84	-9.56	-22.99
315	-10.01	-15.82	-25.28	-10.06	-6.31	-3.54	-5.7	-11.95	-12.19	-12.25	-23.81	-8.43	-22.99
330	-7.77	-26.71	-15.99	-7.56	-13.36	-12.16	-8.44	-9.39	-16.43	-10.76	-9.23	-8.45	-22.99
345	-6.3	-25.63	-13.48	-11.03	-6.02	-3.9	-5.68	-10.29	-11.17	-13.74	-4.95	-8.17	-22.99

Composite Gain													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.41	-4.3	-4.15	-1.03	2.14	5.43	5.9	2.84	-2.59	-2.75	-6.52	-7.97	-19.84
15	-1.67	-4.47	-4.51	-0.38	1.14	5.42	4.43	2.16	-2.6	-4.45	-5.96	-9.05	-19.84
30	-1.58	-4.3	-2.79	-2.13	-0.21	3.9	4.78	3.57	0.32	-4.01	-4.85	-8.16	-19.84
45	-1.93	-4.34	-1.17	0.2	-0.58	3.8	4.12	2.85	-1.29	-5.71	-8.77	-4.73	-19.84
60	-2.97	-5.39	-1.78	0.34	0.65	4.62	4.88	1.41	-3.55	-5.53	-8.05	-2.42	-19.84
75	-4.36	-7.24	-3.51	-2.24	0.86	4.01	4.26	2.02	-2.49	-2.1	-4.43	-0.72	-19.84
90	-6.57	-8.96	-3.03	-3.26	0.77	3.44	2.86	0.06	-1.21	-1.32	-2.9	-1.36	-19.84
105	-8.88	-10.74	-3.63	-3.81	0.29	3.57	2.9	-2.66	-5.92	-0.83	-4.62	-2.05	-19.84
120	-9.51	-9.33	-8.09	-0.5	1.98	3.77	2.35	-1.61	-3.83	-7.49	-10.33	-2.69	-19.84
135	-8.55	-7.66	-4.52	0.97	2.34	5.41	4.06	-5.08	-3.16	-10.1	-12.81	-4.01	-19.84
150	-6.14	-5.96	-1.63	0.71	2.91	5.6	3.46	-5.31	-3.93	-6.68	-10.28	-6.25	-19.84
165	-3.98	-4.63	-2.71	0.09	1.75	4.42	3.5	-1.08	-3.25	-2.55	-9.15	-7.57	-19.84
180	-2.56	-4.36	-3.14	2.44	3.7	6.5	4.75	-0.11	-3.01	-4.82	-8.6	-8.59	-19.84
195	-1.83	-3.96	-4.07	2.13	2.74	4.78	2.85	0.7	-2.47	-4.07	-6.91	-11.48	-19.84
210	-1.72	-2.74	-5.12	-2.43	1.04	4.04	4.7	1.91	-2.3	-3.21	-6.33	-8.16	-19.84
225	-2.17	-1.74	-1.86	-2.24	0.65	4.36	5.44	2.62	-1.27	-1.79	-5.09	-4.55	-19.84
240	-3.15	-1.94	-0.32	1.19	1.98	5.49	4.97	2.32	-1.31	-2.02	-2.62	-2.99	-19.84
255	-4.84	-3.46	-2.1	0.09	-0.14	2.81	3.4	1.37	-1.29	-3.2	-4.14	-0.89	-19.84
270	-7.17	-6.04	-6.33	-1.89	0.14	3.28	3.38	1.96	-1.36	-5.42	-8.2	-0.84	-19.84
285	-10.03	-5.63	-7.34	-3.26	-0.91	0.52	1.08	-0.71	-1.17	-5.23	-9.93	-1.5	-19.84
300	-10.24	-4.89	-5.9	-4.34	0.15	0.73	0.59	-1.74	-3.94	-8.09	-5.19	-2.93	-19.84
315	-8.61	-5.33	-6.39	-1.84	1.13	4.18	2.44	-3.22	-4.74	-9.87	-6.71	-2.88	-19.84
330	-5.83	-5.74	-4.79	-0.87	1.03	5.33	4.66	-2.34	-4.55	-2.99	-4.74	-3.65	-19.84
345	-3.68	-4.91	-3.89	-3	2.15	4.57	3.3	-0.64	-3	-3.23	-4.04	-5.91	-19.84

7.2 DG_1SS Test Data (ANT1/2/5/6 & ANT7/8/11/12)

Ant1													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.01	-9.09	-7.48	-6.68	-5.99	-1.61	-0.46	-1.82	-3.26	-4.62	-11.46	-9.77	-10.35
15	-11.61	-9.34	-7.82	-9.12	-8.35	-3.69	-3.23	-5.01	-4.17	-4.12	-11.95	-9.64	-10.35
30	-12.02	-9.81	-7.23	-8.66	-11.44	-6.68	-6.57	-7.41	-6.22	-4.15	-13.38	-9.27	-10.35
45	-12.07	-10.76	-6.81	-6.67	-13.36	-12.27	-11.21	-9.78	-8.19	-5.9	-14.23	-8.83	-10.35
60	-11.81	-12.14	-7.62	-6.85	-9.99	-12.63	-17.83	-13.59	-11.24	-10.16	-13.51	-9.01	-10.35
75	-11.17	-13.91	-10.06	-10.24	-7.57	-8.85	-17.27	-16.96	-15.62	-13.76	-14.07	-9.41	-10.35
90	-10.63	-15.55	-16.26	-18.79	-9.09	-8.6	-16.4	-17.11	-14.15	-14.07	-13.78	-9.45	-10.35
105	-10.68	-16.41	-21.29	-16.64	-13.21	-12.07	-11.25	-12.58	-15.65	-11.48	-11.35	-9.36	-10.35
120	-10.64	-16.05	-19.14	-10.88	-12.54	-10.52	-6.95	-9.26	-13.93	-9.69	-9.38	-9.6	-10.35
135	-10.59	-15.16	-15.15	-7.25	-7.54	-7.1	-5.44	-8.23	-12.35	-9.55	-8.81	-9.96	-10.35
150	-10.54	-14.1	-11.66	-5.14	-4.57	-4.11	-6.46	-10.57	-11.49	-9.69	-8.28	-10.33	-10.35
165	-10.47	-12.96	-9.5	-4.12	-2.65	-2.35	-6.76	-12.24	-14.06	-9.05	-9.18	-10.35	-10.35
180	-10.27	-11.78	-8.58	-3.23	-2.03	-1.4	-5.65	-9	-8.19	-10.94	-10.89	-8.71	-10.35
195	-10.1	-10.74	-8.1	-2.96	-2.22	-1.73	-3.54	-4.64	-7.22	-10.89	-7.92	-6.2	-10.35
210	-9.97	-10.02	-7.5	-3.25	-3.08	-1.81	-1.64	-2.63	-5.86	-7.05	-6.45	-4.4	-10.35
225	-9.9	-9.72	-6.99	-3.23	-3.69	-1.7	-0.26	-1.7	-3.85	-4.25	-5.5	-3.52	-10.35
240	-10.05	-9.46	-6.23	-2.82	-4.44	-0.83	-0.42	-0.99	-2.15	-2.4	-4.3	-3.27	-10.35
255	-10.34	-9.25	-5.31	-2.07	-4.12	-0.91	-0.32	0.61	-1.31	-1.43	-4.17	-3.46	-10.35
270	-10.62	-8.95	-4.58	-0.95	-2.74	-0.35	0.85	1.73	-0.76	-1.99	-5.01	-4.03	-10.35
285	-10.91	-8.61	-4.31	-0.06	-1.32	1	2	1.94	-2.23	-4.21	-6.47	-5.05	-10.35
300	-11.12	-8.49	-4.08	-0.35	-0.55	2.3	2.64	1.36	-4.01	-8.59	-8.98	-6.57	-10.35
315	-11.14	-8.67	-4.17	-1.66	-0.52	2.3	3.08	1.45	-5.47	-10.27	-11.61	-8.09	-10.35
330	-11.17	-8.97	-4.91	-2.72	-2.36	1.97	2.67	1.35	-3.91	-8.45	-12.09	-9.14	-10.35
345	-11	-9.19	-6.3	-4.08	-4.17	0.44	1.59	0.37	-3.36	-5.77	-11.51	-9.79	-10.35

Ant2													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.62	-9.17	-6.85	-6.42	-6.08	-0.82	1.63	0.64	-3.96	-5.37	-7.87	-8.79	-10.08
15	-12.99	-10.73	-8.28	-7.4	-5.56	-0.28	1.56	-0.69	-6.22	-11.61	-11.71	-9.49	-10.08
30	-12.99	-12.36	-7.98	-5.9	-4.27	1.08	1.45	-1.65	-7.79	-12.31	-13.3	-8.84	-10.08
45	-12.33	-13.89	-6.94	-2.86	-2.03	1.25	1.82	-1.91	-5.56	-8.66	-9.57	-7.91	-10.08
60	-11.48	-15.78	-6.38	-0.85	-0.81	1.51	1.21	-1.02	-3.86	-5.99	-7.8	-7.25	-10.08
75	-11.03	-18.66	-6.6	-0.2	-0.36	1.32	1.44	0.39	-2.18	-5.19	-8.58	-7	-10.08
90	-11.03	-22.22	-7.79	-1	-0.25	1.38	2.53	1.84	-1.04	-5.4	-9.98	-6.73	-10.08
105	-11.11	-20.72	-9.88	-3.33	-1.12	1.81	3.07	2.28	-0.71	-5.33	-10.14	-6.29	-10.08
120	-11.14	-16.13	-10.07	-5.9	-3.2	0.88	2.07	1.76	-0.63	-4.53	-8.96	-6.8	-10.08
135	-10.97	-12.92	-7.52	-5.56	-6.43	-3.19	-1.03	0.99	-0.65	-4.25	-8.75	-8.29	-10.08
150	-10.85	-10.94	-5.52	-4.55	-9.22	-10.76	-3.54	0.07	-1.67	-5.73	-9.37	-9.49	-10.08
165	-11.01	-9.8	-4.83	-4.85	-8.52	-6.83	-3.07	-2.63	-4.85	-9.46	-9.83	-10.08	-10.08
180	-11.31	-9.38	-5.38	-6.48	-7.59	-5.74	-4.72	-6.65	-9.58	-11.03	-9.07	-9.74	-10.08
195	-11.31	-9.24	-6.7	-8.98	-7.95	-5.2	-6.37	-5.06	-8.25	-6.9	-8.57	-9.01	-10.08
210	-11.16	-9.48	-8.15	-12.25	-7.48	-4.94	-3.71	-3.94	-5.14	-6.27	-7.33	-8.38	-10.08
225	-11.19	-9.89	-9.53	-14.52	-8.71	-4.15	-4.79	-3.61	-7.08	-6.95	-5.74	-7.68	-10.08
240	-11.53	-9.96	-10.62	-18.57	-9.51	-5.91	-6.98	-6.19	-13.33	-9.11	-5.84	-6.34	-10.08
255	-12.33	-9.84	-10.77	-22.01	-11.3	-6.74	-7.13	-7.11	-13.95	-9.58	-6.45	-5.28	-10.08
270	-13.02	-9.31	-9.56	-15.69	-11.11	-6.89	-4.97	-4.7	-7.9	-6.38	-5.86	-4.94	-10.08
285	-13.29	-8.69	-7.56	-9.41	-9.36	-6.63	-4.15	-3.72	-5.3	-4.68	-4.45	-4.82	-10.08
300	-13.02	-7.9	-5.54	-6.06	-9.12	-7.58	-5.02	-3.9	-5.13	-4.42	-3.88	-4.74	-10.08
315	-12.64	-7.38	-4.31	-4.41	-8.45	-11.2	-7.08	-3.7	-4.77	-2.49	-4	-5.08	-10.08
330	-12.28	-7.4	-4.34	-3.57	-7.89	-6.95	-3.38	-1.87	-3.15	-1.61	-3.99	-6.06	-10.08
345	-12.36	-7.93	-5.27	-4.63	-6.25	-2.39	0.32	0.09	-2.71	-2.39	-4.91	-7.26	-10.08

Ant3													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	1.25	-1.84	-1.81	-0.41	-0.08	1.12	0.79	-2.4	-1.07	1.43	-0.66	-2.33	-9.57
15	1.2	-1.54	-1.95	-0.25	-1	0.88	0.59	-1.68	-1.91	0.05	-1.87	-2.98	-9.57
30	1.19	-1.15	-2.74	-1.94	-3.34	-1.12	-0.52	-1.4	-3.77	-1.2	-3.5	-3.67	-9.57
45	1.17	-0.69	-3.5	-6.03	-9.59	-5.64	-3.36	-2.86	-5.51	-3.17	-4.42	-4.49	-9.57
60	1.13	-0.19	-3.14	-8.68	-15.33	-9.02	-6.52	-5.65	-8.27	-3.86	-4.82	-5.52	-9.57
75	1.08	0.33	-1.58	-4.79	-9.11	-7.14	-8.7	-6.7	-8.94	-3.86	-5.29	-6.92	-9.57
90	1.08	0.76	0.13	-1.62	-7.88	-6.67	-13.31	-6.36	-8.28	-4.33	-5.55	-8.8	-9.57
105	1.07	1.16	1.19	0.24	-5.25	-4.29	-9.32	-5.78	-8.78	-5.81	-7.45	-9.57	-9.57
120	1.1	1.34	1.42	0.82	-2.96	-2.57	-6.51	-6.73	-9.08	-9.15	-12.57	-8.09	-9.57
135	1.12	1.39	0.98	0.39	-3.01	-4.48	-7.11	-9.85	-13.73	-16.87	-14.85	-7.23	-9.57
150	1.13	1.29	0.05	-0.41	-3.77	-5.39	-6.65	-10.11	-20.7	-15.97	-9.9	-6.25	-9.57
165	1.09	1.08	-0.76	-0.53	-2.15	-2.09	-4.07	-5.67	-12.27	-10.56	-6.49	-5.67	-9.57
180	1.08	0.83	-0.94	-0.37	-0.92	-0.57	-1.59	-3.57	-9.93	-5.83	-5.05	-5.57	-9.57
195	1.06	0.65	-0.84	-0.53	-1.58	0.16	-1.59	-3.66	-6.87	-5.87	-4.64	-5.74	-9.57
210	1.13	0.45	-0.43	-0.87	-2.75	-0.91	-2.76	-4.73	-6.24	-5.94	-5.64	-6.87	-9.57
225	1.2	0.24	-0.03	-0.68	-5.68	-1.47	-4.63	-6.4	-5.63	-5.36	-7.04	-9.01	-9.57
240	1.29	-0.1	0.06	-0.34	-7.02	-2.39	-5.05	-5.24	-4.55	-5.27	-8.8	-8.76	-9.57
255	1.3	-0.61	-0.41	-0.63	-8.06	-3.9	-5.91	-4.46	-4.07	-5.79	-9.07	-6.65	-9.57
270	1.25	-1.26	-1.75	-2.18	-11.77	-5.3	-8.39	-7.08	-4.98	-4.4	-6.71	-5.26	-9.57
285	1.19	-1.94	-3.76	-4.3	-11.16	-5.7	-7.56	-13.25	-6.82	-3.24	-4.38	-4.36	-9.57
300	1.21	-2.43	-5.62	-4.07	-5.17	-3.91	-4.5	-6.09	-5.92	-3.08	-3.37	-3.76	-9.57
315	1.24	-2.52	-6.01	-2.18	-2.22	-1.91	-2.71	-2.02	-2.25	-0.62	-3.01	-3.16	-9.57
330	1.29	-2.31	-4.48	-1.46	-1.02	0.35	-1.71	-2.21	0.47	1.11	-1.17	-2.57	-9.57
345	1.29	-2.06	-2.71	-1.17	-0.19	1	-0.61	-1.88	0.14	1.85	-0.28	-2.17	-9.57

Ant4													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	1.62	1.85	0.71	-0.69	-2.87	-1	-0.22	-4.36	-12.76	-9.22	-4.78	-0.67	-7.57
15	1.49	2.15	1.23	-0.4	-1.95	-3.07	-1.99	-4	-7.75	-7.46	-5	-1.13	-7.57
30	1.36	2.41	1.56	0.83	-2.27	-3.17	-4.98	-5.73	-4.97	-6.19	-9.03	-2.92	-7.57
45	1.26	2.51	1.6	1.57	-0.83	-3.2	-3.7	-6.91	-4.21	-2.98	-10.71	-5.58	-7.57
60	1.21	2.44	1.49	1.46	-0.27	-2.39	-3.39	-5.57	-3.97	-1.28	-7.64	-7.4	-7.57
75	1.13	2.13	1.2	0.82	-1.63	-3.3	-6.19	-5.13	-4.67	-1.9	-7.63	-7.57	-7.57
90	1.08	1.55	0.35	-0.26	-4.51	-6.45	-10.6	-7.84	-5.58	-4.14	-7.79	-7.34	-7.57
105	1.1	0.85	-0.99	-1.87	-7.52	-7.69	-6.73	-11.56	-5.94	-6.51	-8.15	-6.72	-7.57
120	1.14	0.15	-2.05	-2.86	-8.88	-7.39	-3.39	-8.84	-5.79	-6.48	-7.62	-5.86	-7.57
135	1.17	-0.43	-1.73	-1.31	-6.4	-5.54	-2.16	-3.59	-4.44	-4.26	-6.75	-4.99	-7.57
150	1.19	-0.96	-0.59	0.55	-2.93	-2.65	-0.32	-0.46	-3.6	-1.92	-5.34	-3.5	-7.57
165	1.13	-1.52	0.02	1.38	-0.44	0.41	0.84	0.01	-1.94	-0.61	-4.03	-2.12	-7.57
180	1.16	-2.04	-0.43	1.52	0.79	1.56	0.31	0.17	-1.14	-0.56	-2.79	-1.51	-7.57
195	1.32	-2.56	-1.9	0.91	0.8	1.36	0.14	-0.77	-1.13	-0.59	-2.66	-1.7	-7.57
210	1.52	-3.02	-4.32	-0.11	0.23	-0.75	-2.47	-0.7	-3.26	-0.61	-4.71	-2.3	-7.57
225	1.71	-3.1	-6.19	-0.87	-2.55	-4.35	-4.21	-3.87	-4.07	-3.58	-4.94	-2.99	-7.57
240	1.78	-2.67	-5.09	-2.43	-4.83	-8.73	-4.54	-6.52	-7.63	-5.24	-5.09	-3.73	-7.57
255	1.74	-1.96	-3.21	-2.77	-8.81	-6.32	-3.76	-9.73	-8.66	-6.7	-7.29	-4.67	-7.57
270	1.69	-1.19	-1.86	-1.56	-7.81	-4.51	-4.13	-16.03	-9.64	-7.51	-9.15	-5.94	-7.57
285	1.69	-0.49	-1.05	-0.69	-4.64	-2.89	-4.83	-11.3	-5.92	-4.65	-8.65	-6.73	-7.57
300	1.73	0.16	-0.53	-0.35	-3.63	-2.05	-3.4	-5.46	-4.37	-3.57	-7.59	-6.56	-7.57
315	1.79	0.71	-0.26	-0.5	-3.43	-1.34	-2.13	-4.64	-4.92	-6.47	-7.12	-5.32	-7.57
330	1.79	1.16	-0.02	-0.85	-3.18	-0.87	-0.97	-3.84	-8.67	-10.35	-6.1	-3.35	-7.57
345	1.73	1.54	0.27	-0.77	-3.01	-0.89	0.27	-4.69	-14.16	-11.22	-5.28	-1.58	-7.57

Composite Gain													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	3.16	2.76	2.85	2.98	2.64	5.51	6.5	4.22	1.71	2.45	0.73	1.51	-3.3
15	2.99	2.77	2.75	2.62	2.28	4.69	5.47	3.35	1.29	1.27	-0.53	1.04	-3.3
30	2.9	2.8	2.8	2.85	1.33	4	3.97	2.35	0.46	0.93	-2.77	0.32	-3.3
45	2.9	2.77	2.85	3.17	1.01	2.32	3.05	1.21	0.27	1.14	-2.98	-0.5	-3.3
60	2.96	2.65	2.86	3.27	1.47	2.07	1.68	0.62	-0.29	1.28	-1.89	-1.18	-3.3
75	3.01	2.4	2.81	3.41	2.14	2.44	0.73	0.85	-0.51	0.83	-2.32	-1.64	-3.3
90	3.05	2.05	2.34	2.95	1.3	1.88	0.01	1.07	-0.02	-0.16	-2.75	-1.99	-3.3
105	3.04	1.9	1.75	2.49	0.28	1.95	1.94	1.27	-0.19	-0.95	-3.11	-1.83	-3.3
120	3.07	1.94	1.56	2.32	0	2.2	3.13	1.56	-0.01	-1.18	-3.43	-1.45	-3.3
135	3.11	2.03	2.06	3.13	0.36	1.06	2.43	1.91	-0.11	-1.4	-3.29	-1.4	-3.3
150	3.14	2.07	2.71	3.99	1.21	0.78	2.15	2.16	-0.7	-0.88	-2.01	-0.93	-3.3
165	3.09	2.01	3.01	4.37	3.06	3.68	3.2	1.96	-0.85	-0.36	-1.04	-0.35	-3.3
180	3.09	1.9	2.8	4.39	4.1	4.87	3.44	1.95	-0.36	0.06	-0.34	0.26	-3.3
195	3.17	1.79	2.17	3.86	3.82	5.01	3.51	2.66	0.65	0.75	0.42	0.76	-3.3
210	3.3	1.63	1.49	3	3.17	4.08	3.41	3.16	0.98	1.47	0.05	0.85	-3.3
225	3.41	1.5	1.1	2.63	1.17	3.21	2.77	2.29	0.96	1.08	0.25	0.6	-3.3
240	3.43	1.51	1.39	2.14	-0.2	2.08	2.12	1.59	0.02	0.84	0.17	0.77	-3.3
255	3.32	1.58	1.86	2.03	-1.65	1.88	2.14	1.73	0.24	0.66	-0.54	1.09	-3.3
270	3.19	1.72	2.11	2.53	-1.55	2.12	2.51	1.6	0.88	1.21	-0.53	1.01	-3.3
285	3.12	1.89	2.16	3.13	0.27	3	3.15	1.56	1.14	1.85	0.21	0.83	-3.3
300	3.14	2.13	2.34	3.65	1.94	3.94	4.05	3.04	1.2	1.36	0.39	0.7	-3.3
315	3.21	2.38	2.61	3.95	2.83	4.19	4.57	4.12	1.76	1.81	0.18	0.79	-3.3
330	3.26	2.58	2.83	3.94	2.76	5.23	5.47	4.59	2.79	2.44	1.03	1.11	-3.3
345	3.24	2.71	2.9	3.53	2.9	5.66	6.45	4.72	2.36	2.88	1.39	1.48	-3.3

Ant1													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.76	-19.83	-9.99	-13.24	-8.86	-0.78	0.77	1.45	-1.26	-1.54	-3.1	-5.4	-18.4
15	-7.71	-19.56	-9.85	-10.36	-14.77	-5.28	-3.43	-0.26	-3.19	-2.55	-6.39	-4.63	-18.4
30	-7.77	-16.67	-9.89	-10.79	-14.81	-6.75	-6.47	-4.87	-5.9	-6.5	-8.31	-4.54	-18.4
45	-7.92	-14.13	-12.31	-8.18	-19.44	-11.32	-8.7	-9.12	-12.04	-11.41	-10.86	-5.46	-18.4
60	-7.9	-12.55	-14.53	-10.33	-14.85	-14.84	-16.45	-10.36	-11.19	-11.24	-10.8	-6.94	-18.4
75	-7.65	-11.22	-13.45	-11.02	-15.99	-17.66	-15.81	-14.48	-11.49	-12.07	-12.7	-7.23	-18.4
90	-7.82	-10.14	-10.35	-7.54	-10.7	-10.98	-11.61	-14.57	-12.35	-14.67	-19.62	-6.72	-18.4
105	-7.64	-9.32	-9.48	-6.18	-11.28	-9.81	-10.29	-11.8	-15.99	-11.62	-15.24	-7.2	-18.4
120	-7.53	-8.99	-10.44	-9.35	-13.77	-14.76	-11.45	-15.32	-17.37	-7.75	-17.45	-8.82	-18.4
135	-7.64	-9.25	-13.18	-15.5	-20.39	-13.07	-22.88	-22.13	-13.07	-7.95	-13.03	-15.03	-18.4
150	-7.82	-10	-14.04	-17.78	-11.37	-12.49	-10.84	-14.66	-16.1	-5.55	-7.32	-18.4	-18.4
165	-7.95	-10.4	-12.02	-16.89	-8	-14.78	-6.39	-15.07	-6.88	-3.28	-5.79	-13.47	-18.4
180	-7.71	-9.59	-8.71	-15.53	-9.2	-13.25	-8.01	-7.75	-4.48	-3.13	-5.52	-9.87	-18.4
195	-7.62	-8.8	-7.11	-13.25	-4.62	-9.45	-7.21	-7.45	-3.97	-2.55	-5.54	-7.92	-18.4
210	-7.26	-7.95	-5.66	-11.4	-4.13	-5.48	-5.96	-7.31	-2.43	-0.65	-4.7	-5.43	-18.4
225	-7.35	-7.61	-4.4	-5.04	-6.09	-2.16	-5.93	-7	-3.35	-1.03	-4.41	-4.5	-18.4
240	-7.41	-7.43	-3.93	-1.84	-10.22	-1.86	-1.05	-1.81	-7.11	-6.69	-5.59	-5.33	-18.4
255	-7.69	-7.6	-4.02	-0.86	-4.73	-2.25	0.14	1.13	-2.09	-4.8	-1.32	-3.4	-18.4
270	-7.65	-8.13	-5.86	-1.62	-3.24	0.03	2.16	0.68	-1.91	-5.68	-3.59	-1.71	-18.4
285	-7.69	-9.37	-11.97	-7.58	-6.01	0.76	4.39	2.68	-4.37	-1.85	-5.19	-1.21	-18.4
300	-7.48	-11.53	-15.76	-10.9	-4.81	1.58	3.99	3.98	-2.46	-2.03	-7.06	-1.82	-18.4
315	-7.61	-14.34	-10.12	-9.21	-4.13	2.63	4.84	4.24	0.04	-1.16	-6.04	-3.07	-18.4
330	-7.48	-16.62	-8.91	-8.34	-3.51	2.48	5.43	4.18	1.37	0.31	-3.37	-4.49	-18.4
345	-7.41	-17	-9.25	-12.25	-4.93	1.38	3.56	3.04	0.98	0.26	-3.14	-5.89	-18.4

Ant1													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.27	-8.5	-8.52	-9.97	-5.44	-4.24	-2.35	3.68	0.64	-3.34	-4.52	-5.19	-16.52
15	-7.22	-7.64	-8.63	-7.08	-7.62	-4.26	2.46	4.6	0.33	-0.78	-2.84	-4.64	-16.52
30	-6.93	-7.13	-9.04	-5.85	-7.55	-0.89	4.36	4.49	0.19	-0.02	-2.76	-3.66	-16.52
45	-6.75	-7.09	-10.37	-5.14	-4.49	2.66	4.57	3.88	0.66	-1.29	-3.59	-3.28	-16.52
60	-6.79	-7.27	-12.59	-6.52	-3.4	3.66	3.83	3.12	-0.07	-5.12	-6.52	-3.6	-16.52
75	-7.01	-7.44	-11.46	-5.58	-4.4	3.27	2.8	2.22	-0.69	-7.25	-8.23	-4.4	-16.52
90	-7.43	-7.65	-10.21	-4.98	-3.13	1.58	1.51	1.39	-1.48	-7.6	-7.57	-6.01	-16.52
105	-7.76	-8.14	-11.41	-4.36	-1.47	0.11	-1.66	0.24	-2.2	-5.48	-10.06	-7.16	-16.52
120	-7.8	-9.14	-14.1	-4.1	-4.58	-5.16	-2.76	-0.97	-2.17	-2.63	-12.6	-8.79	-16.52
135	-7.82	-10.24	-10.79	-3.34	-8.45	-3.2	-1.27	-8.18	-7.16	-4.29	-8.11	-11.36	-16.52
150	-7.64	-11.09	-8.19	-2.29	-9.02	-2.41	-5.35	-16.53	-5.68	-5.06	-7.01	-14.36	-16.52
165	-7.58	-11.4	-8.52	-3.03	-11.03	-3.53	-12.49	-7.95	-4.89	-2.64	-9.18	-16.52	-16.52
180	-7.62	-10.72	-9.31	-5.04	-10.55	-8.53	-14.68	-14.17	-12.42	-8.4	-12.89	-14.76	-16.52
195	-7.71	-9.95	-11.81	-6.92	-9.98	-7.56	-8.16	-6.94	-4.79	-9.67	-9.6	-11.46	-16.52
210	-7.85	-10.25	-17.49	-6.69	-9.07	-6.77	-12.62	-8.74	-8.08	-7.46	-9.27	-8.7	-16.52
225	-7.85	-11.8	-14.86	-6.38	-11.91	-10.2	-8.78	-9.12	-13.5	-8.9	-11.07	-7.02	-16.52
240	-7.65	-13.61	-12.85	-6.56	-13.73	-9.85	-7.38	-15.82	-14.28	-8.11	-10.1	-6.11	-16.52
255	-7.6	-14.71	-13.47	-6.56	-15.94	-7.73	-11.06	-10.69	-14.41	-9.72	-10.64	-6.11	-16.52
270	-7.45	-15.91	-10.93	-6.22	-14.33	-10.36	-14.18	-20.93	-13.98	-14.15	-11.14	-6.47	-16.52
285	-7.18	-16.67	-9.86	-5.95	-9.57	-8.29	-11.71	-23.21	-10.81	-12.17	-10.5	-7.63	-16.52
300	-6.96	-15.54	-13.28	-7.79	-8.73	-5.74	-10.61	-8.67	-6.95	-12.75	-10.14	-7.65	-16.52
315	-6.78	-12.85	-13.44	-8.38	-8.32	-7.8	-11.09	-4.21	-5.48	-13.19	-9.01	-5.96	-16.52
330	-6.8	-10.84	-9.86	-5.6	-9.16	-11.18	-5.39	-4.36	-4.77	-7.88	-6.26	-5.18	-16.52
345	-7.02	-9.57	-9.2	-7.86	-6.48	-5.06	-5.8	0.91	-1.38	-4.64	-5.3	-5.65	-16.52

Ant3													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-1.76	-2.12	-0.72	-3.24	-2.1	1.48	0.13	-0.97	0.15	-4.29	-8.1	-5.4	-10.53
15	-1.68	-2.76	-0.97	-2.08	-1.04	0.28	-0.75	-1.14	-1.43	-4.22	-10.1	-4.29	-10.53
30	-1.66	-3.98	-1.32	-0.49	-4.15	-2.66	-3.17	-3.64	-5.33	-6.97	-8.58	-3.37	-10.53
45	-1.64	-4.74	-1.54	-0.1	-7.18	-2.67	-5.27	-5.46	-9.26	-13.49	-11.12	-3.19	-10.53
60	-1.61	-4.11	-1.23	-1.8	-5.34	-1.4	-6.77	-6.82	-10.28	-17.53	-11.06	-4.54	-10.53
75	-1.53	-2.82	-1.81	-3.95	-5.47	-3.21	-6.39	-9.19	-13.62	-13.05	-8.71	-4.8	-10.53
90	-1.58	-1.86	-2	-1.57	-5.12	-7.33	-12.35	-12.38	-9.45	-6.36	-6.09	-3.41	-10.53
105	-1.61	-1.59	-2.38	-2.97	-3.7	-8.05	-16.21	-14.04	-7.17	-5.48	-8.22	-3.64	-10.53
120	-1.64	-1.81	-4.19	-6.24	-1.64	-5.71	-6.82	-8.09	-11.99	-12.26	-9.88	-4.59	-10.53
135	-1.58	-2.09	-5.7	-2.97	-0.14	-0.11	-2.87	-4.59	-9.66	-8.17	-7.4	-6.9	-10.53
150	-1.56	-2.4	-6.63	-1.52	-0.64	-2.3	-4.78	-3.54	-8.37	-6.13	-7.23	-10.06	-10.53
165	-1.5	-3.01	-6.41	-1.13	-1.68	-1.14	0.67	-3.61	-10.36	-15.26	-9.93	-10.4	-10.53
180	-1.61	-3.65	-5.28	-1.47	0.25	0.84	1.56	-5.48	-8.77	-14.22	-12.28	-9.06	-10.53
195	-1.73	-4.32	-4.17	-0.73	-0.12	-0.12	-2.54	-7.07	-9.87	-13.93	-12.33	-8.18	-10.53
210	-1.85	-5.05	-3.69	-0.12	-1.36	-1.3	-5.66	-7.82	-10.67	-9.89	-11.19	-8.07	-10.53
225	-1.87	-4.87	-5.52	-0.84	-2.26	-3.06	-3.31	-5.08	-5.93	-12.3	-8.91	-6.65	-10.53
240	-1.86	-3.74	-11.4	-5.03	-5.02	-4.77	-7.43	-9.02	-8.57	-12.68	-5.02	-4.06	-10.53
255	-1.81	-2.64	-5.49	-6.06	-12.11	-8.18	-11.93	-6.58	-7.69	-7.7	-5.25	-3.38	-10.53
270	-1.79	-2.22	-2.25	-1.17	-10.9	-9.21	-11.98	-8.72	-9.21	-11.03	-5.27	-4.79	-10.53
285	-1.8	-2.64	-2.56	-2.09	-7.3	-8.32	-7.32	-8.76	-13.07	-15.83	-11.1	-7.68	-10.53
300	-1.88	-3.57	-4.23	-1.72	-4.02	-4.06	-6.34	-6.47	-6.2	-8.51	-9.09	-10.53	-10.53
315	-1.93	-3.76	-4.57	0.21	-1.92	-2.03	-5.73	-9.53	-5.12	-8.6	-8.43	-8.09	-10.53
330	-1.9	-2.91	-2.74	-1.78	-2.94	-2.16	-2.36	-8.39	-7.94	-8.41	-6.07	-5.83	-10.53
345	-1.84	-2.23	-1.07	-5.86	-5.74	-0.02	-0.27	-3.13	-2.5	-6.17	-6.71	-5.79	-10.53

Ant4													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.46	-2.05	-1.34	-4.51	1.25	3.08	2.18	1.12	-7.95	-10.22	-12.74	-4.36	-10.73
15	-0.44	-2.36	-1.95	-3.24	1.52	1.73	-0.2	-1.79	-6.36	-11.87	-14.67	-3.74	-10.73
30	-0.43	-2.33	-4.24	-0.22	-1.13	-0.27	-2.64	-9	-10.17	-10.58	-10.22	-4.05	-10.73
45	-0.46	-1.47	-10.69	-0.38	-3.21	-4.96	-6.42	-7.82	-7.35	-9.92	-9.33	-6.08	-10.73
60	-0.47	-0.14	-7.9	-7.14	-6.92	-5.96	-17.19	-8.51	-7.01	-9.56	-9.69	-9.19	-10.73
75	-0.4	0.69	-1.66	-3.97	-18.67	-8.13	-11.99	-11.55	-10.04	-6.62	-9.76	-9.82	-10.73
90	-0.44	0.84	-0.09	0.3	-8.43	-13.12	-11.3	-11.27	-10.88	-5.2	-8.67	-7.98	-10.73
105	-0.48	0.19	-0.57	-1.03	-9.68	-10.37	-13.37	-13.15	-11.04	-6.16	-8.64	-6.97	-10.73
120	-0.49	-0.78	-0.78	0.26	-5.21	-6.28	-4.7	-9.48	-13.97	-7.04	-11.13	-7.37	-10.73
135	-0.45	-1.46	-0.14	1.63	-4.58	-4.49	-3.62	-4.11	-8.59	-6.43	-16.04	-7.33	-10.73
150	-0.44	-1.48	0.29	0.2	-3.91	-6.29	-5.34	-3.78	-5.19	-4.78	-13.06	-8.29	-10.73
165	-0.36	-1.37	0.26	-1.39	-1.48	-1.91	-1.55	-4.47	-2.16	-3.77	-9.13	-8	-10.73
180	-0.41	-1.57	0.3	-2.2	-1.16	0.06	-0.85	-3.12	-0.62	-3.99	-6.3	-6.11	-10.73
195	-0.54	-1.82	0.8	-2.48	-3.28	-1.61	-2.39	-1.68	-2.24	-4.9	-4.88	-4.83	-10.73
210	-0.66	-2.02	0.18	-1.86	-5.61	-2.83	-3.18	-2.38	-7.91	-5.57	-5.3	-4.64	-10.73
225	-0.66	-1.83	-0.58	-2.87	-4.85	-3.75	-3.9	-5.1	-7.68	-5.19	-7.59	-3.43	-10.73
240	-0.61	-1.04	-1.39	-2.61	-2.53	-2.83	-7.59	-8.92	-11.88	-6.76	-9.44	-3.55	-10.73
255	-0.48	-0.15	-0.65	-2.31	-5.93	-3.85	-12.01	-16.22	-13.01	-8.42	-5.62	-4.22	-10.73
270	-0.43	0.23	-0.29	-3.97	-9.01	-5.57	-10.68	-25.9	-10.05	-6.84	-5.65	-4.83	-10.73
285	-0.5	-0.04	-1.03	-3.98	-6.26	-8.53	-11.25	-16.71	-16.15	-6.61	-8.35	-6.27	-10.73
300	-0.59	-0.84	-3.12	-5.63	-6.49	-3.25	-4.46	-10	-14.32	-14.14	-12.83	-8.92	-10.73
315	-0.68	-1.6	-4.49	-2.94	-3.83	-1.03	-3.24	-7.65	-8.12	-8.14	-10.84	-10.73	-10.73
330	-0.63	-1.88	-2.82	-3.14	-4.79	-5.12	-3.31	-4.79	-6.65	-8.37	-9.54	-7.8	-10.73
345	-0.53	-1.94	-1.24	-5.36	-2.02	0.27	1.38	-0.26	-9.23	-16.12	-9.91	-5.52	-10.73

Composite Gain													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.31	0.22	1.83	-0.82	3.03	6.32	6.36	7.5	4.51	1.72	-0.36	0.95	-7.35
15	2.35	0.05	1.53	0.92	2.53	4.64	5.79	6.77	3.7	2.04	-1.42	1.71	-7.35
30	2.4	-0.07	0.62	2.67	0.42	3.72	5.01	4.25	1.52	0.89	-0.95	2.13	-7.35
45	2.41	0.27	-1.54	3.2	-0.76	3.32	3.76	3.09	0.44	-1.61	-2.11	1.62	-7.35
60	2.41	1.12	-1.44	0.13	-0.68	3.7	1.22	2.17	0.09	-3.78	-3.3	0.22	-7.35
75	2.46	1.96	0.5	0.32	-3.03	2.52	1.11	0.39	-1.34	-3.27	-3.66	-0.28	-7.35
90	2.33	2.4	1.57	3.09	-0.34	0.56	-0.15	-0.56	-1.37	-1.76	-3.17	0.16	-7.35
105	2.29	2.24	1.22	2.59	0.42	0.15	-2.49	-1.39	-1.65	-0.82	-4.11	-0.08	-7.35
120	2.28	1.7	0.13	1.88	0.72	-1.21	0.15	-0.93	-3.31	-0.74	-6.31	-1.19	-7.35
135	2.3	1.16	0.05	2.82	0.21	1.93	1.27	-1.51	-3.34	-0.54	-4.43	-3.54	-7.35
150	2.31	0.82	0.38	2.8	0.79	1.02	-0.24	-1.69	-1.89	0.66	-2.3	-5.93	-7.35
165	2.35	0.56	0.57	2.21	1.39	2.04	2.39	-0.75	0.45	1	-2.33	-5.5	-7.35
180	2.32	0.48	1.17	1.39	2.11	2.61	2.56	-0.74	0.56	-0.43	-2.59	-3.4	-7.35
195	2.24	0.43	1.63	1.36	2.2	2.19	1.34	0.6	1.23	-0.7	-1.56	-1.76	-7.35
210	2.19	0.26	1.33	2.03	1.41	2.19	-0.21	-0.16	-0.7	0.82	-1.18	-0.52	-7.35
225	2.17	0.24	1.02	2.5	0.4	1.73	0.79	-0.4	-0.87	0.17	-1.63	0.75	-7.35
240	2.21	0.72	-0.06	2.21	-0.8	1.69	0.66	-1.48	-4	-2.23	-1.23	1.32	-7.35
255	2.24	1.3	1.22	2.41	-2.54	0.89	-0.91	0.24	-1.87	-1.44	0.92	1.81	-7.35
270	2.3	1.42	2.05	3	-2.38	0.75	0.1	-2	-1.6	-2.78	0.03	1.75	-7.35
285	2.3	0.91	0.86	1.37	-1.15	0.97	2.35	-0.26	-3.94	-1.49	-2.44	0.77	-7.35
300	2.32	0.02	-1.45	0.16	0.19	3.61	3.4	2.74	-0.51	-1.97	-3.51	-0.53	-7.35
315	2.28	-0.44	-1.35	1.82	1.77	4.72	4.17	3.51	1.89	-0.64	-2.39	-0.49	-7.35
330	2.33	-0.19	0.56	1.65	1.24	3.35	5.69	4.03	2.33	0.84	-0.02	0.28	-7.35
345	2.35	0.2	1.74	-1.42	1.4	5.49	6.37	6.44	3.72	1.08	0.09	0.31	-7.35

Ant1													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.74	-8.98	-7.14	-3.44	-4.05	-7.67	0.04	1.44	3.31	0.72	-4.97	-6.6	-11.72
15	-6.6	-9.35	-10.28	-7.06	-5.08	-7.22	-1.48	-0.71	0.42	0.18	-5.98	-8.99	-11.72
30	-6.51	-9.73	-12.34	-10.77	-9.1	-5.61	-2.78	-2.18	-2.46	-1.41	-5.29	-11.72	-11.72
45	-6.49	-9.75	-10.97	-20.31	-16.1	-9.97	-7	-6.58	-5.23	-2.2	-5.83	-9.2	-11.72
60	-6.67	-9.9	-9.08	-7.89	-15.42	-18.99	-13	-6.77	-9.31	-6.41	-6.09	-7.14	-11.72
75	-6.65	-11.5	-8.08	-7.3	-12.41	-15.03	-13.85	-10.83	-9.94	-8.6	-8.45	-6.78	-11.72
90	-6.27	-16.4	-10.01	-7.3	-10.66	-13.52	-14.26	-9.26	-15.14	-9.88	-8.85	-7.16	-11.72
105	-6.1	-14.91	-11.19	-6.87	-8.32	-9.96	-11.08	-11.59	-14.22	-10.42	-9.28	-6.96	-11.72
120	-5.96	-8.95	-7.45	-6.51	-10.93	-11.57	-14.22	-10.55	-16.38	-13.85	-15.75	-7.22	-11.72
135	-5.86	-5.59	-5.13	-5.91	-9.13	-12.85	-15.42	-14.07	-19.67	-17.25	-11.79	-7.36	-11.72
150	-5.78	-3.61	-5.77	-7.2	-14.37	-10.11	-13.91	-9.93	-11.29	-8.02	-7.24	-7.23	-11.72
165	-5.76	-2.43	-7.06	-8.2	-14	-9.83	-11.33	-13.14	-10.43	-10.8	-7.8	-6.33	-11.72
180	-5.87	-1.31	-6.51	-6.28	-11.2	-6	-11.73	-8.92	-8.83	-6.72	-5.22	-6.13	-11.72
195	-6.05	-0.74	-3.74	-2.82	-8.9	-2.57	-8.31	-4.69	-4.25	-1.93	-4.15	-5.04	-11.72
210	-6.45	-0.3	-0.82	-1.14	-7.87	-1.02	-3.55	-1.31	-2.56	0.67	-3.1	-1.27	-11.72
225	-6.52	-0.43	1.27	-0.03	-5.77	-2.45	-0.46	0.06	-3.45	0.81	-3.08	-0.98	-11.72
240	-6.33	-1.1	2.1	0.54	-0.74	-1.89	1.4	1.43	-2.44	-3.34	-5.28	-0.81	-11.72
255	-6.13	-2.6	1.32	1.25	0.24	1.91	3.41	0.81	-3.1	-7.81	0.18	2.15	-11.72
270	-6.3	-5.15	-1.83	-2.43	-2.29	0.9	4.13	0.1	-6.52	-4.5	-2.1	3.42	-11.72
285	-6.54	-8.06	-5.36	-5.66	-1.45	3.24	1.8	1.37	-7.88	-0.71	-1.25	2.94	-11.72
300	-7.07	-9.32	-2.7	0.94	-0.55	4.52	5.65	3.16	-1.18	-1.75	-4.43	1.63	-11.72
315	-7.25	-8.92	-0.95	1.9	-2.65	4.2	6.28	4.28	2.43	0.64	-5.13	0.25	-11.72
330	-7.36	-8.33	-1.3	0.1	-4.31	1.68	2.97	4.07	4.04	0.4	-4.36	-1.74	-11.72
345	-7.11	-8.09	-3.13	-2.35	-4.5	-3.03	1.78	3.99	3.65	1.95	-3.38	-4.03	-11.72

Ant2													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.88	-3.24	-2.87	-4.36	-6.76	-3.7	2.09	-1.66	-2.02	-1.14	-2.12	-5.17	-14.65
15	-5.92	-4.08	-3.57	-5.9	-5.04	-0.22	4.35	1.14	-0.01	0.44	-0.67	-3.52	-14.65
30	-5.84	-4.48	-2.98	-8.18	-2.8	1.47	4.79	2.9	0.92	1.04	-0.54	-3.46	-14.65
45	-5.61	-4.37	-1.95	-5.38	-0.26	3.31	3.91	2.63	1.36	1.12	-1.33	-3.85	-14.65
60	-5.45	-4.01	-1.04	-1.22	1.57	4.68	4.08	2.22	1.31	0.22	-2.74	-3.29	-14.65
75	-5.43	-3.24	-1.01	-0.71	2.48	3.79	3.25	1.49	-3.55	-1.51	-3.51	-1.76	-14.65
90	-5.45	-2.53	-0.04	-2.3	-0.78	3.69	1.81	1.4	-4.52	-6.29	-5	-1.26	-14.65
105	-5.5	-2.38	1.39	-2.5	-5.67	2.82	4.27	2.47	-2.68	-15.6	-8.05	-1.92	-14.65
120	-5.51	-3.03	1.47	0.03	-1.81	0.45	0.88	2.46	0.73	-4.57	-15.4	-2.89	-14.65
135	-5.38	-4.33	-0.62	-0.68	-0.59	-0.74	-0.39	0.8	-1.27	-3.51	-14.65	-4.47	-14.65
150	-5.23	-5.29	-4.54	-1.52	-3.98	-4.12	-1.25	-2.44	-5.77	-5.53	-8.46	-6.43	-14.65
165	-5.03	-5.24	-5.79	0.58	-5.59	-3.79	-2.5	-6.3	-9.7	-5.01	-6.8	-10.13	-14.65
180	-4.84	-4.23	-5.15	-1.91	-5.37	-6.54	-3.77	-6.18	-10.36	-4.3	-8.42	-14.65	-14.65
195	-4.98	-3.06	-5.01	-3.67	-6.63	-14.23	-9.75	-8.87	-9.42	-8.13	-10.08	-11.1	-14.65
210	-5.26	-2.68	-4.69	-5.44	-3.65	-8.08	-8.5	-4.47	-11.53	-14.25	-8.16	-8.2	-14.65
225	-5.53	-3.14	-6.28	-5.66	-2.77	-13.51	-9.44	-9.05	-13.33	-10.74	-8.49	-6.95	-14.65
240	-5.52	-4.09	-9.91	-4	-6.75	-5.03	-7.88	-8.16	-13.73	-10.14	-5.96	-6.1	-14.65
255	-5.31	-5.22	-9.7	-4.02	-7.42	-10.48	-12.76	-13.32	-11.59	-11.1	-5.15	-5.94	-14.65
270	-5.21	-6.47	-8.17	-3.13	-5.8	-7.21	-14.34	-14.53	-7.42	-20.46	-5.34	-6.46	-14.65
285	-5.34	-6.74	-9.55	-4.94	-4.31	-4.89	-12.66	-7.47	-6.71	-14.62	-7.91	-6.89	-14.65
300	-5.57	-5.72	-7.29	-5.13	-6.1	-9.83	-11.26	-4.99	-5.96	-8.51	-5.35	-5.57	-14.65
315	-5.78	-4.35	-3.52	-3.37	-13.8	-9.99	-5.55	-9.04	-7.06	-8.47	-4.65	-4.9	-14.65
330	-5.76	-3.22	-2.04	-5.14	-8.01	-6.46	-3.31	-2.88	-8.05	-5.15	-3.6	-5.88	-14.65
345	-5.73	-2.79	-2.02	-5.12	-8.44	-16.05	-0.73	-3.68	-4.06	-3.87	-3.9	-6.79	-14.65

Ant3													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	3.88	1	1.96	2.72	-1.35	-0.26	0.46	-1.39	-3.08	1.03	-12.8	-4.9	-12.81
15	3.9	1.23	2.17	2.95	-0.18	-2.88	-1.83	-2.93	-4.94	-1.17	-11.3	-5.92	-12.81
30	3.87	1.48	1.48	2.86	1.62	-2.13	-3.85	-4.01	-4.59	-5.77	-7.22	-7.83	-12.81
45	3.82	1.76	-0.15	1.38	0.07	-3.04	-6.8	-3.51	-3.68	-9.37	-4.62	-8.18	-12.81
60	3.71	1.98	-0.69	0.03	-4.28	-7.11	-9.18	-4.38	-6.52	-9.6	-5.1	-8.06	-12.81
75	3.66	2.02	-0.42	0.18	-4.43	-6.05	-12.44	-6.5	-5.05	-6.42	-4.76	-5.81	-12.81
90	3.64	1.84	-0.53	0.84	-3.8	-5.62	-9.84	-5.89	-4.88	-7.66	-3.52	-2.93	-12.81
105	3.7	1.23	-0.9	0.53	-3.22	-5	-7.94	-8.16	-4.17	-11.96	-4.69	-2.94	-12.81
120	3.76	0.36	-1.3	-2.78	-4.72	-2.8	-6.99	-11.13	-7.63	-14.94	-8.83	-4.7	-12.81
135	3.8	-0.49	-2.14	-9.36	-1.04	-0.59	-2.41	-5.39	-10.04	-8.26	-8.45	-8.33	-12.81
150	3.74	-1.23	-4.33	-7.75	0.08	-0.28	-0.57	-5.15	-8.5	-10.65	-7.56	-10.5	-12.81
165	3.7	-1.76	-8.41	-2.87	1.36	1.59	1.09	-3.89	-13.15	-18.98	-11.3	-9.87	-12.81
180	3.65	-2.02	-10.69	-0.86	3.14	3.56	2.01	-0.29	-9.6	-10.23	-13.69	-8.17	-12.81
195	3.65	-1.82	-7.32	0.24	3.33	2.66	-0.12	-0.51	-6.9	-10.72	-10.4	-7.79	-12.81
210	3.72	-1.04	-7.48	-0.52	1.93	0.73	-2.29	-3.59	-7.47	-19.57	-11.28	-7.31	-12.81
225	3.88	-0.01	-5.51	-3.73	-1.72	-2.65	-8.15	-7.35	-11.42	-12.2	-11.47	-7.46	-12.81
240	3.98	0.78	-1.17	-1.1	-6.07	-6.79	-8.81	-11.81	-9.5	-12.12	-12.64	-10.52	-12.81
255	3.97	1.14	0.18	0.32	-9.87	-6.23	-13.09	-14.93	-13.82	-10	-15.4	-12.81	-12.81
270	3.89	1.05	-0.8	0.69	-1.79	-5.06	-5.52	-9.28	-7.3	-11.16	-19.01	-10.76	-12.81
285	3.86	0.69	-1.65	2.51	-0.3	-3.71	-5.57	-7.94	-5.06	-10.83	-8.03	-7.84	-12.81
300	3.84	0.56	-1.12	2.03	-2.42	-4.16	-6.31	-8.48	-7.06	-10.11	-8.26	-5.28	-12.81
315	3.9	0.61	0.03	1.12	0.27	-0.28	-2	-4.21	-8.89	-6.45	-13.08	-3.53	-12.81
330	3.95	0.7	1.21	1.98	-0.03	0.72	-1.12	-5.17	-4.73	-2.61	-16.01	-3.15	-12.81
345	3.94	0.8	1.55	2.49	-1.39	0.86	-0.37	-2.84	-2.41	0.28	-12.3	-3.97	-12.81

Ant4													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.58	-2.21	-4.99	-3.37	3.03	3.28	2.98	0.31	-5.53	-16.59	-11.49	-5.83	-13.99
15	-2.46	-1.13	-4.74	-0.93	2.79	3.3	1.36	-3.41	-8.94	-17.94	-12	-5.11	-13.99
30	-2.22	-0.33	-4.35	-1.57	2.19	0.58	-0.65	-11.54	-14.91	-14.64	-8.71	-5.99	-13.99
45	-2.08	0.11	-2.26	-9.23	-1.13	-0.96	-11.87	-7.13	-9.47	-15.46	-7.31	-6.48	-13.99
60	-1.95	0.27	0.02	-7.81	-11.13	-5.62	-7.7	-10.32	-8.86	-10.53	-9.11	-6.83	-13.99
75	-1.98	-0.15	0.54	-2.28	-9.64	-8.95	-7.67	-18.01	-12.49	-7.07	-11.73	-8.7	-13.99
90	-2.18	-0.83	-0.08	-1.01	-2.19	-12.87	-9.62	-9.52	-10.41	-10.24	-12.61	-11.14	-13.99
105	-2.38	-1.32	0.2	1.56	-0.68	-6.7	-7.4	-10.31	-18.14	-9.71	-15.63	-13.99	-13.99
120	-2.44	-1.19	0.58	2.25	0.09	-5.48	-10.01	-10.45	-12.21	-8.45	-17.51	-12.7	-13.99
135	-2.42	-0.75	0.48	1.36	0.07	-1.89	-8.16	-11.35	-10.4	-9.24	-14.74	-10	-13.99
150	-2.31	-0.42	0.83	2.92	-0.46	-0.84	-5.14	-8.6	-9.71	-4.45	-11.73	-9.1	-13.99
165	-2.22	-0.24	1.52	4.01	-2.21	-1.84	-2.23	-11.4	-3.15	-2.67	-8.42	-8.7	-13.99
180	-2.25	-0.2	1.48	3.48	-1.72	-2.37	-2.29	-3.4	-1.77	-1.89	-7.36	-7.08	-13.99
195	-2.37	-0.31	0.91	3.01	-0.23	-0.91	-3.89	-2.05	-1.77	-1.47	-6.87	-5.48	-13.99
210	-2.62	-0.35	-0.19	3.15	0.84	-0.01	-3.58	-2.39	-2.72	-4.08	-7.4	-5.25	-13.99
225	-2.74	-0.54	0.12	2.89	0.68	0.09	-1.85	-4.09	-6.33	-9.51	-7.82	-4.69	-13.99
240	-2.93	-1.04	0.88	3.2	-1.29	-3.06	-4.26	-8.65	-14.49	-8.39	-9.01	-4.9	-13.99
255	-2.82	-1.92	1.26	3.46	-0.14	-2.98	-4.04	-15.44	-16.89	-6.39	-13.33	-6.9	-13.99
270	-2.65	-3.09	0.15	2.43	-0.06	-2.26	-5.6	-8.28	-17.76	-9.43	-19.46	-7.81	-13.99
285	-2.45	-4.18	-0.22	1.51	-0.16	-1.65	-4.61	-5.03	-13.26	-10.73	-11.73	-7.68	-13.99
300	-2.3	-4.44	1.15	2.13	-1.69	-1.24	-4.56	-6.72	-11.58	-9.16	-10.17	-7.35	-13.99
315	-2.38	-4.32	1.05	-0.44	-1.83	1.45	-0.81	-2.82	-10.08	-11.16	-10.29	-6.56	-13.99
330	-2.52	-4.04	-1.32	-7.96	0.42	1.48	0.03	-1.52	-4.39	-9.72	-9.8	-5.64	-13.99
345	-2.55	-3.3	-4.46	-7.24	1.74	0.56	2.2	-1.33	-6.18	-9.71	-9.52	-5.62	-13.99

Composite Gain													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	4.29	3.36	3.45	4.42	4.51	4.86	7.5	5.79	4.83	4.19	-0.7	0.42	-7.19
15	4.34	3.51	3.03	4.23	4.8	5.09	7	4.74	3.44	3.74	-0.21	0.36	-7.19
30	4.4	3.73	2.75	3.24	5.03	5.01	6.09	3.73	2.4	2.54	1.17	-0.73	-7.19
45	4.45	4	3.04	0.64	3.56	4.57	2.7	3.32	2.64	1.67	1.54	-0.66	-7.19
60	4.43	4.19	3.99	2.55	1.05	2.9	2.23	2.48	1.36	0.56	0.56	-0.1	-7.19
75	4.41	4.09	4.36	3.93	1.94	2.21	1.25	0.32	-1.01	0.56	-0.52	0.65	-7.19
90	4.4	3.65	4.2	4.06	2.38	1.91	0.34	1.45	-1.71	-2.34	-0.79	1.2	-7.19
105	4.4	3.38	4.55	4.77	2.01	2.69	2.74	1.17	-1.55	-5.62	-2.57	0.69	-7.19
120	4.43	3.46	4.96	4.86	2.57	2.19	0.28	0.84	-0.44	-3.4	-7.66	-0.14	-7.19
135	4.49	3.51	4.42	3.35	4.03	3.19	1.12	0.44	-2.02	-2.29	-5.98	-1.28	-7.19
150	4.53	3.6	2.97	3.77	2.87	2.96	2.14	0	-2.55	-0.82	-2.55	-2.15	-7.19
165	4.57	3.79	2.04	5.5	2.51	3.46	3.32	-1.87	-2.24	-1.42	-2.4	-2.6	-7.19
180	4.55	4.21	1.95	5.32	3.73	4.19	3.34	1.92	-0.85	0.77	-2.14	-2.43	-7.19
195	4.47	4.61	2.78	5.63	4.26	4.08	1.95	2.53	0.91	1.32	-1.46	-1.02	-7.19
210	4.37	4.98	3.21	5.56	4.64	4.54	1.84	3.17	0.69	0.02	-0.96	0.95	-7.19
225	4.34	5.08	4.05	5.02	3.93	2.65	1.89	1.64	-1.73	-0.13	-1.15	1.4	-7.19
240	4.37	4.83	5.05	6.07	2.73	2.03	2.13	0.82	-2.58	-1.82	-1.74	1.12	-7.19
255	4.46	4.17	5.27	6.68	2.8	2.75	2.15	-1.6	-3.67	-2.61	-0.18	1.82	-7.19
270	4.45	3.1	3.89	5.71	3.78	3.16	3.1	-0.31	-2.74	-3.7	-2.24	2.46	-7.19
285	4.42	2.14	2.53	5.14	4.62	4.87	2.21	2.13	-1.71	-1.48	-0.33	2.53	-7.19
300	4.34	2.03	4.05	6.47	3.57	4.84	4.26	3.05	0.36	-0.66	-0.73	2.63	-7.19
315	4.29	2.43	5.34	6.05	2.87	6.21	6.64	4.43	1.73	0.86	-1.58	2.72	-7.19
330	4.27	2.88	5.25	4.14	3.68	5.94	5.97	5.36	4.01	2.5	-1.17	2.1	-7.19
345	4.3	3.23	4.31	3.77	3.66	3.62	6.84	5.62	4.61	4.23	-0.47	1	-7.19

Ant1													
Freq	5800												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.26	-9.09	-7.08	-3.31	-3.26	-6.82	-0.92	1.58	3.41	0.03	-5.93	-7.39	-17.11
15	-5.96	-9.97	-10.5	-7.43	-4.9	-8.11	-2.83	-1.42	0.36	-0.54	-7.48	-10.45	-17.11
30	-5.58	-10.53	-13.43	-10.78	-8.28	-6.48	-4.44	-2.95	-3.33	-2.02	-7.15	-17.11	-17.11
45	-5.24	-10.03	-12.05	-18.49	-14.41	-9.72	-6.81	-6.68	-6.1	-2.36	-7.61	-14.66	-17.11
60	-5.06	-9.19	-9.99	-10.37	-17.93	-16.87	-11.17	-9.14	-9.84	-5.79	-7.52	-10.68	-17.11
75	-5.18	-9.76	-8.51	-8.76	-14.64	-16.25	-14.32	-10.93	-11.04	-8.97	-9.39	-9.55	-17.11
90	-5.26	-12.33	-10.7	-9.89	-12.52	-13.29	-13.01	-10.11	-16.43	-11.83	-10.36	-10.02	-17.11
105	-5.28	-14.14	-11.56	-9.66	-9.57	-10.61	-10.58	-11.4	-15.26	-10.99	-11.59	-10.01	-17.11
120	-5.32	-10.14	-7.36	-6.02	-10.65	-13.78	-13.64	-12.59	-14.4	-15.36	-20.96	-10.38	-17.11
135	-5.09	-6.95	-5.22	-4.66	-9.28	-12.81	-15	-13.18	-23.3	-19.69	-12.12	-10.15	-17.11
150	-5.09	-4.75	-5.72	-7.46	-13.64	-11.3	-9.71	-12.78	-13.07	-10.56	-8.37	-8.77	-17.11
165	-5.17	-3.03	-6.64	-10.75	-12.99	-10.85	-12.13	-15.53	-11.04	-14.43	-9.36	-7.47	-17.11
180	-5.22	-1.98	-5.38	-8.53	-14.15	-5.69	-13.44	-11.92	-6.95	-7.41	-6.14	-7.17	-17.11
195	-5.31	-1.12	-2.26	-4.59	-11.02	-3.52	-7.62	-4.89	-4.06	-3.24	-4.97	-6.1	-17.11
210	-5.7	-0.83	0.25	-2.15	-10.03	-2.46	-2.94	-1.28	-3.19	-0.39	-3.54	-2.28	-17.11
225	-5.87	-0.94	1.45	-0.24	-5.84	-3.48	-0.07	0.49	-4.46	0.16	-3.03	-2.23	-17.11
240	-6.32	-1.67	1.62	0.97	-1.91	-1.53	0.75	1.68	-2.81	-3.9	-5.57	-2.11	-17.11
255	-6.43	-3.04	0.43	1.27	-0.68	1.55	2.49	1.17	-4.58	-8.42	-0.48	1.02	-17.11
270	-6.2	-5.18	-2.63	-2.5	-2.33	1.3	3.19	-0.16	-7.75	-5.96	-3.2	2.3	-17.11
285	-5.99	-7.18	-4.26	-2.06	-1.35	3.35	1	1.37	-7.26	-0.61	-2.45	1.67	-17.11
300	-5.98	-8	-1.97	1.8	-0.94	3.76	5.09	3.37	-1.67	-0.76	-6.65	0.24	-17.11
315	-6.04	-8.03	-0.77	1.79	-2.76	2.89	5.76	3.93	2	0.45	-7.59	-1.17	-17.11
330	-6.27	-7.87	-1.06	-0.53	-3.95	0.58	2.04	4.08	4.09	0.26	-6.09	-2.89	-17.11
345	-6.45	-7.95	-2.9	-2.94	-3.49	-3.06	0.74	4.42	3.8	1.71	-3.8	-4.75	-17.11

Ant2													
Freq	5800												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.49	-3.55	-3.94	-3.61	-6.23	-4.97	2.59	-0.44	-4.12	-1.78	-2.58	-5.68	-12.32
15	-6.47	-4.04	-4.01	-5.6	-4.53	-2.07	4.78	2.23	-2.66	-0.69	-1.35	-3.84	-12.32
30	-6.6	-4.12	-3.3	-8.43	-2.92	0.28	5.43	3.76	-2.68	-0.09	-1.19	-3.64	-12.32
45	-6.66	-4.09	-2.44	-6.02	-1.73	2.09	4.61	3.3	-2.09	-0.41	-2.25	-4	-12.32
60	-6.62	-3.64	-1.91	-1.34	0.4	3.57	3.96	2.28	-0.5	-1.99	-3.46	-3.7	-12.32
75	-6.48	-3.03	-2.3	-1.07	1.87	3.02	3.54	1.49	-4.14	-3.52	-3.88	-2.13	-12.32
90	-6.29	-2.64	-1.34	-2.87	-0.92	2.36	1.45	0.1	-10.05	-6.88	-4.81	-1.3	-12.32
105	-6.27	-2.82	0.4	-2.55	-7.58	1.28	4.45	1.55	-5.02	-20.34	-7.5	-1.96	-12.32
120	-6.44	-3.71	0.79	-1.49	-2.82	-0.64	2.23	1.9	-0.46	-4.63	-13.66	-2.6	-12.32
135	-6.49	-5.14	-0.62	-2.46	-0.99	-0.1	-1.34	0.34	-0.98	-2.69	-13.17	-3.75	-12.32
150	-6.2	-6.34	-3.7	-3.89	-3.28	-2.72	-1.7	-1.84	-5.17	-4.51	-8.05	-5.66	-12.32
165	-5.84	-6.74	-5.83	-1.67	-3.49	-3.4	-2.91	-5.39	-9.17	-5.08	-6.04	-8.88	-12.32
180	-5.54	-6.57	-6.56	-4.06	-3.41	-6.47	-3.91	-6.35	-10.89	-4.22	-7.78	-12.32	-12.32
195	-5.33	-5.86	-6.57	-5.87	-4.97	-15.38	-8.45	-11.87	-9.45	-7.81	-9.86	-9.23	-12.32
210	-5.36	-5.19	-5.84	-8.21	-3.85	-7.85	-7.78	-5.86	-11.39	-16.66	-8.94	-7.14	-12.32
225	-5.46	-5.17	-6.91	-4.5	-4.2	-11.01	-9.35	-10.49	-10.86	-9.97	-9.09	-6.28	-12.32
240	-5.68	-5.77	-10.5	-3.01	-8.33	-4.9	-8.81	-9.58	-13.99	-10.63	-6.72	-6.2	-12.32
255	-5.8	-6.56	-11.01	-4.09	-8.46	-12.3	-14.27	-15.16	-14.87	-10.83	-6.45	-6.39	-12.32
270	-5.72	-6.84	-10.06	-3.86	-6.47	-7.33	-12.84	-16.73	-10.21	-19.74	-6.65	-7.38	-12.32
285	-5.49	-6.21	-10.28	-5.36	-3.49	-5.84	-11.41	-7.1	-9.4	-11.75	-9.29	-8.56	-12.32
300	-5.48	-4.94	-5.76	-3.81	-6.17	-10.61	-11.38	-6.09	-7.64	-8.52	-6.63	-7.65	-12.32
315	-5.6	-3.6	-3.15	-3.1	-15.7	-11.53	-6.61	-7.14	-8.88	-7.79	-5.2	-6.67	-12.32
330	-6.05	-2.84	-2.74	-5.46	-7.68	-8.43	-3.75	-2.85	-8.71	-5.33	-3.81	-6.64	-12.32
345	-6.44	-2.89	-3.18	-4.68	-9.59	-11.8	-1.05	-2.31	-6.28	-3.87	-3.64	-6.95	-12.32

Ant3													
Freq	5800												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	4	0.25	1.48	1.71	-1.57	-0.68	0.97	-2.64	-4.92	-0.06	-10.73	-6.76	-12.14
15	3.98	0.38	1.69	2.01	-0.92	-2.73	-2.21	-4.63	-6.36	-2.63	-10.5	-7.55	-12.14
30	3.93	0.46	1	1.64	0.6	-2.28	-4.19	-4.41	-6.3	-6.63	-8.68	-8.76	-12.14
45	3.84	0.7	-0.79	0.27	-0.46	-3.03	-5.74	-3.27	-5.28	-8.52	-5.43	-8.16	-12.14
60	3.77	0.97	-2.07	-2.15	-5.81	-9.41	-10.64	-4.46	-8	-7.99	-5.43	-9.26	-12.14
75	3.75	1.2	-1.98	-1.67	-5.74	-6.33	-11.39	-7.47	-7	-7.01	-5.03	-8.71	-12.14
90	3.77	1.15	-1.9	-0.29	-3.66	-6	-9.26	-8.2	-5.69	-9.34	-4.05	-5.51	-12.14
105	3.87	0.77	-1.93	0.04	-3.57	-6.13	-9.15	-9.13	-5.27	-11.94	-4.86	-5.03	-12.14
120	3.85	0.22	-2.47	-3.12	-6.69	-3.38	-7.86	-12.19	-9.16	-12.52	-8.42	-6.49	-12.14
135	3.87	-0.34	-3.23	-9.16	-2.7	-0.96	-3.71	-6.82	-10.16	-8.66	-8.86	-9.94	-12.14
150	3.8	-0.7	-4.53	-8.95	-0.81	-0.48	-1.34	-6.37	-9.12	-10.6	-8.6	-11.39	-12.14
165	3.78	-1.05	-6.66	-4.25	0.44	1.4	0.74	-4.17	-13.66	-16.27	-12.7	-9.74	-12.14
180	3.78	-1.29	-9.03	-2.37	2.18	3.38	2.17	-0.15	-9.87	-10.82	-14.48	-8.03	-12.14
195	3.83	-1.24	-8.58	-1.01	2.11	2.4	0.48	-1.08	-7.21	-10.58	-10.3	-7.71	-12.14
210	3.82	-0.77	-8.9	-1.21	0.35	0.5	-2.14	-4.75	-8.33	-15.66	-11.54	-8.16	-12.14
225	3.88	0.07	-5.46	-2.88	-3.49	-2.43	-7.35	-6.93	-10.82	-11.37	-13.31	-8.71	-12.14
240	3.89	0.74	-1.76	-0.27	-8.5	-6	-6.15	-10.67	-8.3	-14.86	-13.01	-11.16	-12.14
255	3.94	0.99	-0.96	0.72	-7.43	-6.72	-9.89	-12.45	-13.9	-15.64	-15.38	-12.14	-12.14
270	4	0.89	-1.81	1.27	-0.77	-5.24	-5.76	-9.04	-8.04	-13.04	-15.08	-11.21	-12.14
285	3.94	0.82	-1.79	2.17	-0.64	-4.62	-6.42	-8.7	-6.04	-10.17	-8.82	-8.99	-12.14
300	3.9	0.69	-1.08	1.14	-1.73	-3.85	-5.97	-7.54	-7.73	-8.12	-8.32	-6.21	-12.14
315	3.86	0.5	-0.19	0.66	0.34	-0.23	-2.73	-2.77	-9.43	-6.57	-11.28	-4.37	-12.14
330	3.85	0.21	0.39	0.94	-0.52	0.37	-1.14	-4.84	-5.76	-3.68	-11.19	-4.19	-12.14
345	3.9	0.19	0.77	1.29	-1.58	0.41	0.56	-3	-3.86	-0.75	-10.15	-5.67	-12.14

Ant4													
Freq	5800												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.91	-3.9	-4.31	-4.48	2.38	3.03	2.8	0.19	-6.42	-17.15	-12.08	-6.05	-17.83
15	-0.84	-3.16	-3.95	-2.1	2.15	3.02	1.24	-4.41	-10.08	-15.74	-12.64	-5.72	-17.83
30	-0.78	-2.35	-3.58	-2.65	1.41	0.6	-1.58	-10.08	-16.66	-16	-9.39	-6.91	-17.83
45	-0.68	-1.66	-2.75	-8.99	-2.31	-1.16	-10.69	-7.92	-10.55	-19.04	-8.23	-7.65	-17.83
60	-0.6	-1.1	-0.63	-8.22	-12.28	-7.24	-6.16	-10.72	-9.68	-11.52	-10.77	-8.45	-17.83
75	-0.59	-1.07	-0.14	-2.66	-7.56	-10.87	-6.37	-18.97	-15.66	-7.95	-12.28	-10.62	-17.83
90	-0.65	-1.29	-0.43	-0.87	-1.94	-10.5	-9.91	-9.92	-11.25	-12.66	-12.42	-13.86	-17.83
105	-0.78	-1.36	-0.7	0.98	-0.49	-5.86	-7.21	-10.83	-18.89	-10.7	-15.55	-17.83	-17.83
120	-0.83	-1.02	-0.98	0.83	0.07	-4.91	-11.63	-11.11	-12.57	-10.45	-17.82	-12.96	-17.83
135	-0.89	-0.88	-0.97	0.63	-0.12	-1.43	-6.81	-11.45	-11.9	-10.84	-14.85	-10.15	-17.83
150	-0.89	-0.63	-0.09	2.93	-1.05	-1.37	-5.99	-9.02	-11.97	-4.77	-10.55	-9.78	-17.83
165	-0.83	-0.52	0.9	3.74	-3.9	-2.19	-2.52	-8.77	-4.19	-3.45	-7.54	-10.35	-17.83
180	-0.78	-0.4	0.95	3.04	-3.8	-2.53	-1.74	-4.48	-2.54	-2.64	-6.1	-9.48	-17.83
195	-0.83	-0.45	0.1	2.7	-2.22	-1.79	-2.56	-3.55	-2.77	-1.96	-6.37	-7.25	-17.83
210	-0.93	-0.46	-1.19	2.79	-1.37	-1.03	-4.09	-3.63	-3.34	-4.04	-7.27	-6.29	-17.83
225	-1.11	-0.5	-1.36	2.08	-1.02	-0.68	-2.17	-4.49	-6.03	-9.43	-7.77	-6.01	-17.83
240	-1.21	-0.87	-0.49	2.58	-1.89	-2.38	-3.63	-8.64	-13.55	-9.51	-8.75	-6.37	-17.83
255	-1.17	-1.67	0.42	3.47	-0.98	-4.24	-3.87	-16.42	-17.55	-7.18	-12.81	-8.39	-17.83
270	-1.04	-3.11	-0.51	2.52	-1.02	-2.06	-5.67	-9.23	-17.91	-9.92	-21.99	-9.9	-17.83
285	-0.89	-4.94	-1.49	1.2	-0.14	-2.04	-5.19	-5.08	-15.2	-11.3	-14.48	-9.82	-17.83
300	-0.88	-6.23	-0.06	2.09	-1.15	-2.13	-5.11	-6.1	-12.09	-9.57	-11.43	-9.04	-17.83
315	-0.89	-6.15	0.2	0.42	-2.08	0.74	-1.79	-2.95	-12.51	-11.13	-11.62	-7.74	-17.83
330	-0.9	-5.47	-1.58	-6.19	0.08	0.83	-0.23	-0.85	-5.91	-9.81	-10.54	-6.22	-17.83
345	-0.91	-4.67	-4.48	-8.46	1.42	0.32	2.16	-0.95	-6.99	-9.95	-9.94	-6.05	-17.83

Composite Gain													
Freq	5800												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	4.72	2.55	3.14	3.96	4.41	4.51	7.5	5.82	3.94	3.37	-0.98	-0.43	-8.44
15	4.77	2.55	2.85	3.5	4.46	4.42	6.81	4.42	2.18	2.81	-0.87	-0.54	-8.44
30	4.81	2.72	2.54	2.32	4.47	4.47	5.84	3.99	0.2	1.6	0.07	-1.87	-8.44
45	4.84	3.1	2.43	0.02	2.68	4.02	3.42	3.56	0.51	0.83	0.46	-1.83	-8.44
60	4.86	3.53	3.03	1.32	-0.32	1.67	2.41	2.07	-0.04	-0.12	-0.37	-1.58	-8.44
75	4.85	3.7	3.29	2.95	1.44	1.35	1.74	0.03	-2.43	-0.59	-1	-1.03	-8.44
90	4.86	3.47	3.23	3.25	2.25	1.32	0.29	0.13	-4.03	-3.86	-1.19	-0.41	-8.44
105	4.87	3.12	3.62	4.07	1.43	1.78	2.76	0.42	-3.15	-6.72	-2.96	-0.91	-8.44
120	4.82	3.16	3.99	3.92	1.89	1.5	0.69	0.01	-1.3	-3.79	-7.91	-1.2	-8.44
135	4.84	3.13	3.7	2.8	3.39	3.4	0.6	-0.08	-2.35	-2.54	-5.95	-2	-8.44
150	4.85	3.26	2.77	2.98	2.57	2.93	1.96	-0.57	-3.26	-1.1	-2.82	-2.62	-8.44
165	4.9	3.5	2.11	4.26	2.22	3.27	2.92	-1.48	-2.78	-2.09	-2.56	-3.03	-8.44
180	4.94	3.75	1.85	4.03	2.92	4.12	3.38	1.26	-0.91	0.28	-2.02	-3.03	-8.44
195	4.97	4.09	2.35	4.48	3.21	3.43	2.26	1.48	0.53	0.78	-1.56	-1.49	-8.44
210	4.88	4.4	2.83	4.65	3.08	3.82	2.03	2.31	0.11	-0.47	-1.31	0.35	-8.44
225	4.82	4.61	3.58	5	2.55	2.38	2.07	1.59	-1.56	-0.25	-1.51	0.53	-8.44
240	4.7	4.43	4.25	6.32	1.46	2.5	2.29	0.85	-2.4	-2.81	-2.07	0.13	-8.44
255	4.7	3.86	4.28	6.76	2.34	1.98	1.88	-1.37	-5.16	-3.95	-0.82	0.95	-8.44
270	4.8	2.96	2.94	5.76	3.64	3.3	2.63	-0.79	-4.14	-4.82	-3.03	1.31	-8.44
285	4.88	2.25	2.19	5.48	4.7	4.5	1.65	2.06	-2.83	-1.05	-1.68	1.07	-8.44
300	4.87	2.05	4.05	6.62	3.76	4.24	3.87	3.18	-0.45	0.06	-2.04	1.15	-8.44
315	4.82	2.3	5.13	6.14	2.66	5.39	5.91	4.73	0.8	0.85	-2.49	1.41	-8.44
330	4.71	2.54	4.84	3.74	3.51	5.08	5.49	5.57	3.49	2.1	-1.35	1.17	-8.44
345	4.65	2.68	3.8	3.02	3.55	3.65	6.69	6.09	3.86	3.78	-0.3	0.2	-8.44

Ant1													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.91	-12.83	-20.39	-11.06	-13.83	-18.2	-41.74	-12.64	-22.59	-12.61	-15.75	-12.19	-21.7
15	-13.3	-10.49	-17.1	-8.51	-14.5	-7.36	-12.63	-17.7	-14.01	-15.43	-22.44	-12.91	-21.7
30	-14.36	-8.11	-12.4	-8.19	-13.89	-11.69	-16.07	-11.7	-7.62	-15.87	-13.09	-13.73	-21.7
45	-11.6	-6.87	-9.84	-8.48	-9.8	-14.54	-22.63	-18.26	-4.96	-11.97	-9.33	-10.84	-21.7
60	-8.95	-6.37	-7.9	-8.24	-11.78	-15.79	-14.46	-14.35	-7.12	-8.67	-5.68	-8.28	-21.7
75	-7.23	-6.17	-8.25	-9.48	-11.14	-11.1	-18.62	-8.28	-15.27	-3.83	-4.48	-7.53	-21.7
90	-5.98	-6.42	-8.43	-13.54	-6.8	-11.07	-10.4	-13.16	-13.68	-5.49	-6.13	-7.25	-21.7
105	-5.3	-7.51	-7.24	-14.27	-7.69	-11.56	-13.34	-12.71	-20.22	-12.85	-12.9	-9.49	-21.7
120	-5.14	-10.41	-7.5	-8.15	-9.14	-14.93	-10.89	-8.16	-7.6	-7.48	-8.29	-14.11	-21.7
135	-5.39	-15.24	-10.6	-10.33	-11.63	-8.69	-11.85	-5.16	-5.25	-5.07	-6.9	-15.37	-21.7
150	-6.39	-15.12	-9.67	-25.13	-12.63	-6.25	-6.51	-6.01	-7.36	-7.57	-8.68	-21.7	-21.7
165	-8.11	-12.66	-4.33	-12.38	-12.93	-13.63	-11.81	-7.43	-14.91	-14.92	-9.02	-16.27	-21.7
180	-11.33	-13.32	-3.43	-7.89	-5.93	-6.56	-12.43	-7.09	-15.8	-15	-10.11	-12.62	-21.7
195	-16.77	-18.22	-7.17	-6.54	-10.47	-3.77	-10.02	-8.76	-15.8	-19.4	-15.71	-12.64	-21.7
210	-18.6	-36.23	-13.88	-6.75	-6.7	-9.22	-17.16	-22.39	-17.36	-20.99	-21.75	-11.01	-21.7
225	-12.81	-19.5	-19.18	-9.14	-6.71	-15.19	-18.44	-15.39	-26.24	-10.8	-15.49	-11.01	-21.7
240	-8.6	-13.08	-17.08	-15.2	-13.48	-13.52	-15.6	-17.06	-16.02	-9.27	-26.79	-13.97	-21.7
255	-6.35	-11.26	-13.44	-10.81	-17.19	-11.81	-16.81	-50.68	-24.48	-19.17	-11.26	-14.7	-21.7
270	-4.96	-9.76	-14.31	-7.4	-10.04	-10.36	-8.11	-6.05	-9.72	-9.82	-10.31	-13.07	-21.7
285	-4.28	-7.95	-15.63	-9.27	-8.87	-9.72	-13.2	-14.2	-12.3	-11.76	-13.57	-13.42	-21.7
300	-3.95	-6.43	-10.74	-10.81	-9.12	-10.15	-11.59	-16.58	-29.78	-21.23	-13.58	-12.53	-21.7
315	-4.27	-6.15	-12.24	-12.75	-12.68	-16.32	-21.07	-16.33	-20.18	-15.38	-13.08	-12.57	-21.7
330	-5.2	-7.55	-16.02	-21.77	-11.59	-5.58	-11.46	-16.09	-20.4	-14.88	-16.25	-12.69	-21.7
345	-7.12	-10.8	-21.7	-14.77	-9.98	-6.1	-10.62	-11.56	-23.32	-13.85	-13.27	-12.58	-21.7

Ant2													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.19	-2	-2.03	-3.5	-1.02	-7.26	-4.11	-4.65	-0.91	-2.83	-6.39	-2.16	-28.09
15	-3.77	-2.92	-2.95	-5.84	-7.91	-12.24	-9.49	-8.59	-4.17	-6.57	-12.39	-4.46	-28.09
30	-6.35	-4.84	-7.81	-16.97	-20.2	-23.29	-8.14	-5.31	-5.09	-11.57	-21.78	-9.12	-28.09
45	-10.45	-8.54	-18.57	-9.75	-13.59	-12.76	-6.9	-7.98	-7.27	-17.54	-18.88	-12.98	-28.09
60	-14.22	-18.47	-6.41	-4.45	-15.79	-11.45	-15.45	-15.59	-12.37	-22.33	-14.31	-16.85	-28.09
75	-10.66	-9.6	-4.35	-5.01	-9.12	-8.9	-11.24	-23.69	-20.19	-23.35	-12.16	-20.9	-28.09
90	-6.39	-3.26	-2.19	-6.4	-5.74	-4.72	-5.07	-8.59	-16.98	-17.28	-13.22	-28.09	-28.09
105	-3.65	-0.41	-1.55	-6.77	-4.29	-0.63	-1.97	-3.89	-20.23	-23.96	-11	-17.04	-28.09
120	-1.95	0.32	-3.48	-8.88	-3.16	1.84	2.27	-0.39	-11.12	-19.82	-11.43	-11.77	-28.09
135	-1.19	-0.09	-6.98	-13	-3.65	2.72	1.81	-2.7	-4.87	-7.83	-22.73	-8.92	-28.09
150	-1.06	-1.41	-10.93	-6.95	-4.75	-1.65	-3.84	-1.77	-3.89	-6.88	-14.37	-8.07	-28.09
165	-1.38	-3.41	-10.64	-6.53	-5.02	-4.79	-3.26	-3.75	-13.61	-15.69	-12.27	-7.33	-28.09
180	-2.4	-5.95	-11.26	-8.19	-8.77	-7.49	-2.89	-3.22	-16.29	-18.12	-8.67	-5.32	-28.09
195	-4.39	-9.9	-16.62	-12.75	-33.02	-20.33	-10.89	-5.76	-12.16	-10.87	-8.14	-4.62	-28.09
210	-7.55	-17.46	-25.84	-15.59	-23.12	-17.37	-16.24	-9.24	-13.27	-15.74	-6.21	-5.6	-28.09
225	-12.57	-19.52	-31.96	-13.27	-11.99	-13.73	-10.95	-12.47	-8.17	-13.42	-6.34	-5.76	-28.09
240	-13.33	-11.8	-15.79	-16.56	-9.67	-7.13	-7.44	-9.48	-6.33	-12.24	-4.43	-8.9	-28.09
255	-8.61	-8.1	-10.05	-17.94	-10.68	-7.84	-3.51	-5.79	-4.97	-6.28	-8.66	-11.17	-28.09
270	-5.11	-5.98	-9.12	-10.29	-14.04	-8.2	-6.32	-6.88	-3.71	-10.82	-11.49	-11.03	-28.09
285	-3.17	-4.59	-10.96	-13.71	-10.33	-6.67	-2.48	-6.24	-2.97	-5.12	-4.16	-10.67	-28.09
300	-1.81	-3.3	-13.72	-15.04	-20.77	-10.14	-5.75	-2.88	-3.5	-3.29	-1.77	-6.42	-28.09
315	-1.27	-1.96	-9.4	-6.15	-9.75	-4.43	-2.56	-3.25	-2.77	-1.69	-2.86	-3.62	-28.09
330	-0.99	-1.39	-6.18	-2.71	-1.61	-0.67	-0.36	-1.96	-1.34	-1.73	-0.9	-1.46	-28.09
345	-1.33	-1.59	-3.18	-2.36	0.44	-1.68	-1.32	-2.87	-0.59	-1.43	-3.57	-1.26	-28.09

Ant3													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.22	1.11	3.88	3.89	-6.05	-4.64	-6.78	-12.15	-6.56	-0.24	2.52	7.53	-15.7
15	-2.34	0.1	3.44	3.54	-7.4	-4.43	-0.68	-6.02	-7.83	-0.1	1.38	6.98	-15.7
30	-2.91	-1.96	1.95	0.38	-7.63	-7.56	-1.78	-2.25	-12.83	-1.5	0.2	6.73	-15.7
45	-4.34	-3.35	-0.57	-4.89	-14.63	-3.45	-4.16	-3.35	-17.21	-1.48	0.4	5.7	-15.7
60	-6.45	-3.91	-4.56	-4.61	-20.02	-6.96	-14.57	-8.63	-14.39	-3.41	-0.8	2.4	-15.7
75	-10.09	-5.38	-8.28	-4.86	-14.99	-11.04	-14.18	-5.22	-9.74	-4.62	-5.26	-1.64	-15.7
90	-13.71	-9.96	-8.64	-11.19	-18.28	-16.56	-14.49	-14.34	-19.72	-6.67	-12.08	-7.22	-15.7
105	-12.29	-21.61	-8.9	-6.65	-28.49	-17.47	-18.82	-17.1	-18.69	-20.02	-18.49	-14.31	-15.7
120	-8.69	-16.19	-16.81	-6.74	-9.75	-19.97	-9.57	-16.79	-10.09	-9.83	-7.86	-6.32	-15.7
135	-5.94	-11.86	-12.91	-17.49	-9.81	-9.39	-18.89	-13.15	-8.77	-3.83	-3.31	-2.33	-15.7
150	-4.26	-10.02	-7.77	-9.9	-6.56	-20.68	-8.17	-23.15	-16.97	-2.19	-2.22	0.17	-15.7
165	-3.18	-7.79	-6.56	-7.39	-11.59	-4.03	-13.38	-23.94	-18.05	-4.21	-5.25	0.76	-15.7
180	-2.63	-7.98	-5.8	-9.63	-11.98	-9.01	-17.29	-16.15	-10.94	-1.66	-6.42	-0.15	-15.7
195	-2.75	-7.64	-5.64	-5.77	-20	-9.89	-14.7	-9.07	-11.54	1.69	-2.64	-1.15	-15.7
210	-3.08	-7.86	-6.34	-8.25	-11.85	-5.81	-2.81	-5.89	-19.11	1.38	-1.66	1.14	-15.7
225	-4.51	-8.09	-5.92	-12.5	-12.33	-10.07	-7.26	-0.39	-8.61	-2.22	-1.06	2.18	-15.7
240	-6.47	-8.75	-6.38	-13.96	-23.97	-11.45	-9.12	-1.13	-12.58	-10	-1.83	2.22	-15.7
255	-9.99	-12.41	-8.37	-12.08	-10.64	-6.04	-10.77	-15.05	-8.73	-11.59	-4.77	-0.16	-15.7
270	-14.43	-19.36	-9.59	-4.52	-8.14	-5.12	-6.7	-17.88	-10.29	-11.95	-13.97	-6.22	-15.7
285	-11.69	-17.58	-13.06	-7.21	-6.43	-1.36	-6.89	-15.06	-15.76	-8.32	-7.44	-15.7	-15.7
300	-7.34	-9.21	-12.7	-17.45	-2.96	3.1	-3.69	-8.69	-9.95	-2.57	-0.39	-2.25	-15.7
315	-4.99	-4.26	-7.21	-10.77	-5.25	2.31	0.12	-8.07	-4.49	-2.1	2.3	2.95	-15.7
330	-3.24	-1.33	-0.65	-7.58	-6.52	-1.27	-0.15	-10.48	-10.81	-1.35	2.61	5.15	-15.7
345	-2.47	0.49	2.42	1.97	-12.62	-1.62	-1.96	-11.98	-7.5	-1.14	2.89	6.67	-15.7

Ant4													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	3.2	2.04	1.58	1.49	-13.51	-4.02	-3.07	-3.29	-4.92	0.33	0.56	7.1	-16.06
15	2.11	2.2	3.3	4.05	-8.05	0.13	-0.87	-1.35	-3.22	2.71	2.39	7.58	-16.06
30	0.18	1.88	3.76	2.18	-7.87	-2.49	-0.07	-3.46	-0.42	2.5	4.17	7.36	-16.06
45	-2.76	1.08	1.53	-2.62	-7.39	-10.43	-5.91	-8.76	-1.78	1.26	1.61	5.35	-16.06
60	-8.06	-0.77	-4.53	-3.82	-6.26	-9.73	-12.35	-42.35	-12.03	-3.61	1.01	1.44	-16.06
75	-14.89	-3.42	-16.45	-10.09	-7.51	-10.59	-12.06	-10.09	-14.21	-5.31	-1	-2.91	-16.06
90	-7.59	-5.25	-11.24	-4.37	-12.09	-13.81	-11.5	-8.93	-14.97	-7.16	-3.72	-8.49	-16.06
105	-2.78	-4.62	-12.61	-2.45	-9.93	-13.67	-14.84	-7.72	-14.58	-10.47	-8.83	-11.01	-16.06
120	0.26	-3.56	-7.88	-7.67	-20.66	-10.42	-9.81	-9.66	-8.3	-15.58	-6.43	-4.86	-16.06
135	2.05	-2.65	-4.95	-3.3	-10.56	-18.27	-13.25	-8.11	-4.44	-7.2	-4.45	-3.1	-16.06
150	3.01	-1.09	-4.71	-1.96	-11.56	-7.24	-6.72	-9.88	-7.79	-1.32	-2.99	-1.36	-16.06
165	3.3	0.5	-2.08	-3.73	-17.55	-8.62	-5.17	-8.62	-8.8	-2.27	-2.82	-1.36	-16.06
180	2.96	1.06	0.36	-9.28	-22.98	-9.12	-14.26	-4.42	-19.22	-6.35	-3.9	-0.91	-16.06
195	2.04	0.81	-0.6	-17.5	-10.63	-9.88	-12.95	-11.88	-19.16	-8.67	-3.53	-0.28	-16.06
210	0.18	-0.32	-4.66	-11.65	-7.48	-8.3	-15.27	-19.11	-16.97	-4.58	-2.09	1.47	-16.06
225	-2.86	-3.03	-9.98	-12.48	-15.81	-11.22	-13.34	-19.39	-23.34	-4.53	-1.97	0.68	-16.06
240	-8.74	-8.74	-15.39	-9.74	-12.92	-12.12	-27.64	-14.45	-12.46	-8.69	-4.28	0.18	-16.06
255	-18.94	-32.95	-12.16	-11.29	-13.33	-26.54	-8.75	-19.02	-17.26	-16.13	-9.22	-2.71	-16.06
270	-7.17	-9.63	-8.54	-14.56	-16.16	-16.98	-23.21	-12.19	-15.85	-11.28	-14.06	-8.61	-16.06
285	-2.01	-4.6	-4.22	-9.71	-10.1	-16.76	-10.36	-14.1	-13.5	-12.48	-9.03	-16.06	-16.06
300	0.81	-1.86	-1.99	-12.91	-19.97	-12.8	-12.63	-8.41	-27.08	-9.71	-4.28	-2.87	-16.06
315	2.58	-0.31	-2.31	-4.48	-11.45	-15.32	-5.88	-11.44	-14.25	-9.23	-3.89	2.79	-16.06
330	3.38	0.5	-0.58	-1.06	-6.95	-12.62	-4.5	-6.63	-6.88	-4.11	-2.87	5.38	-16.06
345	3.69	1.33	0.38	-1.01	-16.58	-7.39	-2.67	-3.59	-6.49	-1.86	-1.63	6.22	-16.06

Composite Gain													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	4.39	4.67	5.22	5.34	-0.91	-1.05	-0.96	-1.16	0.05	3.43	3.65	9.05	-13.09
15	3.24	4.38	5.57	5.98	-3.02	1.17	1.58	-0.64	-0.38	3.5	2.94	8.71	-13.09
30	1.62	3.54	4.71	3.11	-5.04	-2.51	1.42	1.01	0.64	2.28	3.35	8.06	-13.09
45	-0.46	2.41	2.18	0.05	-4.84	-3.16	-1.66	-2.13	-0.22	1.53	2.63	6.63	-13.09
60	-2.96	0.64	0.28	0.9	-5.97	-4.4	-8.11	-8.69	-5.02	-1.01	2.76	3.6	-13.09
75	-4.29	0.15	-2.33	-1	-4.25	-4.34	-7.57	-3.66	-8.06	-0.72	1.14	0.23	-13.09
90	-1.91	0.12	-0.92	-2.11	-3.45	-4.34	-3.65	-4.87	-10.03	-2.1	-1.87	-3.84	-13.09
105	0.71	0.2	-0.61	-0.58	-3.23	-2.3	-3.69	-2.97	-12.08	-9.24	-6.12	-6.47	-13.09
120	2.77	0.66	-1.73	-1.8	-2.72	-0.83	0.98	-0.82	-3.15	-5.9	-2.3	-2.44	-13.09
135	4.03	0.65	-2.3	-3.44	-2.28	0.81	-0.83	-0.45	0.35	0.19	-0.88	-0.03	-13.09
150	4.59	0.92	-1.92	-1.82	-2.23	-0.72	-0.14	-1.38	-1.85	1.96	0.18	1.41	-13.09
165	4.61	1.49	0.66	-0.96	-4.56	-0.99	-1.36	-2.45	-7.16	-1.26	-0.6	2.04	-13.09
180	4.01	1.02	1.95	-2.7	-4.49	-1.96	-3.83	-0.49	-9.01	-1.89	-0.93	2.47	-13.09
195	2.74	-0.2	0.18	-3.42	-8.92	-3.19	-5.93	-2.58	-8.14	-0.1	-0.18	2.49	-13.09
210	1.06	-2.4	-3.61	-3.92	-4.36	-3.23	-4.52	-5.68	-10.38	0.06	0.76	3.89	-13.09
225	-1.02	-3.67	-6.39	-5.67	-5.06	-6.3	-5.58	-2.67	-7.15	-0.58	1.33	3.98	-13.09
240	-2.93	-4.37	-6.45	-7.45	-7.64	-4.68	-6.18	-2.25	-5.08	-3.93	0.29	3.14	-13.09
255	-3.86	-6.66	-4.77	-6.59	-6.56	-4.38	-2.69	-7.9	-4.98	-5.89	-2.13	0.73	-13.09
270	-1.17	-3.98	-4.1	-2.42	-5.51	-3.17	-3.05	-3.58	-2.82	-4.91	-6.29	-3.33	-13.09
285	1.43	-1.36	-3.84	-3.65	-2.77	-0.96	-1.28	-5.54	-3.56	-2.89	-1.9	-7.67	-13.09
300	3.45	1.27	-2.36	-7.69	-4.06	1.14	-1.58	-1.87	-5.49	-0.71	2.25	0.84	-13.09
315	4.57	3.13	-0.98	-1.89	-3.28	0.94	1.42	-2.48	-1.86	0.52	3.18	5.29	-13.09
330	5.12	4.05	1.98	0.49	0.07	2.11	2.94	-1.31	-1.44	1.86	3.88	7.5	-13.09
345	5.06	4.47	3.92	3.78	-1.15	2.2	2.56	-0.46	-0.45	2.72	3.82	8.47	-13.09

Ant1													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.82	-22.58	-38.44	-11.75	-11.57	-16.26	-24.97	-15.63	-13.65	-11.2	-13.75	-7.59	-28.62
15	-14.06	-13.3	-18.29	-8.39	-15.54	-15.48	-10.03	-14.31	-12.32	-8.87	-16.24	-9.06	-28.62
30	-9.83	-8.86	-14.18	-7.32	-26.69	-17.56	-18.67	-14.44	-8.38	-7.99	-10.05	-11.49	-28.62
45	-7.27	-6.52	-12.55	-10.58	-12.19	-16.07	-24.7	-13.87	-5.06	-4.24	-8.61	-12.98	-28.62
60	-5.93	-5.47	-12.59	-12.71	-11.84	-16.91	-15	-11.7	-7.35	-5.64	-7.54	-11.24	-28.62
75	-5.32	-5.32	-12.93	-9.92	-8.57	-11.87	-24.7	-10.58	-15.93	-5.54	-6.97	-9.92	-28.62
90	-5.17	-5.85	-14.83	-7.72	-6.09	-9.35	-15.28	-14.95	-12.2	-6.06	-7.05	-8.65	-28.62
105	-5.77	-7.23	-15.64	-9.12	-9.52	-13.39	-19.56	-11.31	-20.2	-11.22	-9.8	-8.38	-28.62
120	-6.89	-10	-16.49	-11.33	-11.66	-13.08	-11.43	-7.24	-12.31	-14.48	-9.47	-9.39	-28.62
135	-8.76	-15.1	-23.27	-9.33	-13.68	-13.88	-15.39	-9.24	-7.01	-11.1	-9.66	-9.39	-28.62
150	-11.88	-19.51	-16.38	-13.76	-14.7	-6.89	-9.15	-17.01	-9.43	-14.81	-12.03	-14.7	-28.62
165	-16.93	-14.04	-8.72	-12.23	-16.86	-9.6	-7.34	-21.51	-18.08	-19.77	-12.54	-28.62	-28.62
180	-20.38	-10.86	-7.04	-3.44	-14.55	-7.92	-13.03	-12.33	-16.48	-10.65	-13.46	-21.86	-28.62
195	-14.43	-10.12	-7.87	-3.39	-10.38	-3.18	-9.28	-11.22	-11.03	-11.38	-16.06	-16.72	-28.62
210	-10.3	-11.75	-9.54	-5.36	-7.17	-8.16	-19.31	-16.73	-12.52	-16.56	-15.22	-13.14	-28.62
225	-7.62	-12.65	-15.71	-5.64	-7.5	-19.06	-18.5	-17.73	-19.25	-12.6	-17.8	-13.54	-28.62
240	-5.71	-9.97	-18.07	-12.6	-20.77	-18.14	-15.77	-22.95	-19.7	-11.79	-20.71	-15.47	-28.62
255	-4.8	-7.98	-9.34	-13.79	-13.93	-12.31	-19.29	-24.81	-18.23	-14.98	-14.49	-18.07	-28.62
270	-4.51	-7.03	-8.42	-6.86	-10.76	-11.61	-16.31	-8.99	-9	-10.17	-14.13	-20.19	-28.62
285	-4.75	-6.33	-10	-8.21	-10.31	-9.84	-11	-11.12	-14.87	-16.65	-19.41	-19.47	-28.62
300	-5.6	-5.71	-9.09	-8.61	-10.57	-9.53	-10.92	-18.16	-19.67	-14.41	-10.66	-14.95	-28.62
315	-7.35	-6	-8.22	-12.07	-22.88	-14.66	-20.21	-10.63	-12.64	-11.31	-11.37	-10.37	-28.62
330	-10.3	-8.17	-10.76	-13.53	-10.83	-6.03	-8.73	-11.95	-13.33	-7.74	-15.47	-7.45	-28.62
345	-15.02	-13.26	-16.87	-14.43	-7.02	-12.02	-7.71	-11.48	-17.4	-11.98	-12.95	-6.75	-28.62

Ant2													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.07	-2.56	-2.99	-4.79	-2.77	-7.02	-5	-1.51	-0.39	-1.08	-4.91	0.08	-26.88
15	-19.1	-5.9	-1.93	-4.22	-3.71	-9.99	-3.48	-5.61	-2.62	-5.8	-7.59	-1.42	-26.88
30	-17.85	-9.8	-4.75	-6.33	-12.78	-10.47	-23.39	-10.78	-3.86	-8.5	-10.71	-4.79	-26.88
45	-12.12	-10.04	-11.39	-16.29	-10.19	-25.3	-8.79	-8.26	-4.82	-8.8	-15.78	-9.6	-26.88
60	-8.58	-8.11	-4.3	-4.17	-11.26	-14	-10.29	-12.23	-12.23	-17.77	-30.44	-17.67	-26.88
75	-6.4	-6.45	-1.33	-0.94	-7.27	-7.28	-6.4	-15.06	-16.92	-20.78	-20.74	-26.88	-26.88
90	-5.1	-3.32	0.12	-2.49	-4.81	-3.45	-3.37	-7.69	-15.58	-22.56	-21.18	-22.35	-26.88
105	-4.4	-0.73	0.89	-4.74	-5.82	0.03	-1.08	-8.53	-21.11	-18.55	-12.73	-20.74	-26.88
120	-4.52	0.32	-0.86	-4.42	-3.54	3.1	0.86	0.05	-13.53	-13.81	-14.99	-20.93	-26.88
135	-5.39	-0.28	-6.61	-8.91	-3.48	3.28	1.67	-2.33	-3.31	-8.41	-21.2	-15.49	-26.88
150	-6.79	-1.75	-12.56	-6.02	-5.36	0.11	-2.55	-1.63	-3.92	-10.28	-11.33	-9.74	-26.88
165	-9.09	-3.8	-9.14	-4.32	-8.56	-3.82	-5.87	-3.97	-16.53	-23.48	-7.75	-7.37	-26.88
180	-13	-6.24	-11.62	-5.65	-16.71	-26.14	-8.96	-6.69	-9.25	-9.55	-9.72	-5.04	-26.88
195	-20.52	-10.33	-16.53	-12.34	-11.96	-5.23	-20.11	-8.61	-7.2	-6.21	-8.98	-4.28	-26.88
210	-21.69	-18.04	-12.32	-13.63	-16.87	-7.04	-23.68	-12.17	-8.85	-12.24	-7.39	-5	-26.88
225	-13.62	-16.86	-12.01	-10.54	-9.61	-12.11	-13.88	-10.87	-7.62	-15.08	-6.73	-5.85	-26.88
240	-9.44	-11.89	-10.02	-12.37	-10.19	-7.03	-5.94	-7.51	-7.39	-11.96	-3.75	-7.63	-26.88
255	-6.88	-10.58	-8.86	-17.37	-18.88	-8.58	-4.53	-5.45	-5.49	-4.83	-6.72	-8.73	-26.88
270	-5.45	-8.9	-12.1	-13.2	-13.24	-4.17	-4.03	-6.8	-6.86	-7.86	-10.95	-8.06	-26.88
285	-4.62	-6.06	-15.23	-18.07	-17.95	-4.07	-3.95	-2.82	-4.26	-5.99	-4.69	-7.17	-26.88
300	-4.59	-3.39	-8.38	-6.2	-7.24	-4.69	-9.26	-9.19	-1.17	-8.02	-1.77	-4.45	-26.88
315	-4.88	-1.65	-5.5	-6.62	-6.88	-2.69	-5.2	-16.36	-2.02	-5.02	-1.78	-2.34	-26.88
330	-6.21	-0.75	-3.14	-6.19	-4.38	-4.27	-0.98	-5.31	-1.82	-2.91	0.39	-0.19	-26.88
345	-8.28	-0.86	-3.5	-4.23	-4.07	-4.03	-2.96	-2.73	-0.74	-0.72	-1.81	0.22	-26.88

Ant3													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.19	3.64	3.99	2.3	-8.55	-0.62	-3.3	-13.09	-7.52	0.75	3.33	6.4	-8.52
15	-0.17	2.8	2.96	2.5	-6.65	-0.56	0.09	-8.26	-3.26	-1.99	2.56	6.02	-8.52
30	-0.46	0.91	0.36	-0.04	-2.93	-1.98	-0.33	-17.77	-4.38	-3.49	-0.42	6.03	-8.52
45	-1.28	-2.03	-0.98	-4.05	-11.69	-3.69	-4.52	-12.43	-5.4	-3.65	-0.99	5.17	-8.52
60	-2.65	-5.01	-2.87	-6.6	-11.97	-3.9	-5.53	-13.39	-7.7	-3.5	-3.39	1.94	-8.52
75	-4.39	-6.1	-8.59	-7.65	-14.66	-9.02	-16.38	-9.68	-9.79	-4.75	-6.15	-2.74	-8.52
90	-6.03	-7.89	-10.04	-12.66	-16.55	-14.97	-13.75	-13.87	-9.36	-6.3	-12.52	-6.88	-8.52
105	-6.39	-14.78	-8.84	-7.63	-23.02	-13.91	-10.08	-23.48	-21.74	-14.33	-24.57	-8.52	-8.52
120	-4.87	-12.25	-13.69	-5.52	-9.45	-16.27	-14.03	-23.51	-16.78	-10.64	-10.25	-3.57	-8.52
135	-2.98	-6.54	-17.01	-18.31	-12.02	-18.01	-9.8	-12.37	-9.18	-4.29	-3.77	-2.61	-8.52
150	-1.4	-4.83	-9.16	-6.8	-7.05	-14.98	-11.43	-20.92	-15.9	-5.04	-1.43	-1.41	-8.52
165	-0.29	-5.33	-6.78	-4.7	-14.97	-4.71	-9.19	-23.41	-20.59	-6.42	-3.3	-2.05	-8.52
180	0.13	-4.88	-6.43	-11.17	-21.71	-11.2	-14.36	-15.73	-14.4	-2.15	-5.26	-3.37	-8.52
195	0.23	-4.72	-5.29	-19.04	-36.49	-7.29	-14.19	-8.96	-9.43	1.22	-3.98	-4.8	-8.52
210	-0.12	-5.7	-7.37	-14.68	-11.66	-3.14	-8.5	-3.55	-4.9	0.07	-1.72	-1.19	-8.52
225	-0.97	-6.41	-12.59	-8.95	-16.25	-11.79	-8.76	0.32	-1.8	-3.34	-0.69	0.17	-8.52
240	-2.44	-6.15	-8.31	-12.89	-16.66	-10.59	-7.04	-3.36	-8.16	-6.61	-0.97	1.2	-8.52
255	-4.5	-5.99	-2.9	-10.67	-10.55	-6.54	-9.44	-15.51	-3.57	-10.14	-5.22	0.33	-8.52
270	-6.52	-7.02	-2.3	-9.06	-20.52	-4.02	-8.5	-20.54	-9.85	-13.11	-16.26	-2.94	-8.52
285	-6.56	-8.22	-5.27	-8.22	-5.39	-0.72	-12.48	-24.19	-9.05	-5.37	-7.79	-7.21	-8.52
300	-4.85	-6.28	-6.46	-7.82	-3.61	1.95	-12.07	-8.56	-7.39	-0.57	-0.41	-3.09	-8.52
315	-2.88	-2.38	-3.69	-9.87	-4.93	0.82	-0.57	-7.98	-11.15	-0.23	2.8	1.32	-8.52
330	-1.57	1.11	-0.38	-3.32	-4.58	0.12	-1.31	-14.71	-11.58	1.76	3.01	3.49	-8.52
345	-0.65	3.17	2.8	0.06	-8.08	-0.37	-1.82	-18.44	-10.81	-0.5	4.16	5.46	-8.52

Ant4													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.6	3.14	2.32	1.6	-7.27	-1.87	-1.3	-14.47	-1.75	1.22	0.62	5.87	-19.25
15	1.72	3.34	3.56	2.81	-9.98	-1.04	-1.34	-11.07	-5.23	2.81	0.04	6.86	-19.25
30	0.18	3.23	3.62	-0.03	-5.97	-5.58	-3.14	-8.32	-3.73	1.55	2.49	7.31	-19.25
45	-2.12	2.21	1.75	-5.87	-3.38	-3.11	-10.89	-4.26	-4.94	1.43	2.24	6.18	-19.25
60	-5.52	-0.41	-3.56	-12.63	-2.9	-7.36	-11.53	-11.85	-10.52	-2.13	1.18	3.31	-19.25
75	-8.91	-4.53	-10.36	-8.13	-2.82	-10.45	-10.96	-13.38	-16.15	-7.76	-1.53	-0.58	-19.25
90	-6.96	-7.99	-5.66	-3.96	-9.23	-8.59	-28.14	-13.31	-22.16	-10.8	-5.26	-5.89	-19.25
105	-3.53	-6.14	-5.65	-2.39	-13.6	-15.67	-18.72	-15.95	-10.46	-9.13	-10.09	-19.25	-19.25
120	-1.04	-3.34	-5.26	-6.04	-25.33	-10.94	-17.86	-14.17	-15.4	-7.6	-6.72	-6.83	-19.25
135	0.51	-1.93	-4.09	-8.45	-13.24	-12.1	-13.39	-5.82	-3.51	-6.54	-4.37	-4.05	-19.25
150	1.39	-1.5	-3.66	-3.07	-16.25	-4.85	-13.91	-6.61	-2.02	0.61	-2.56	-4.81	-19.25
165	1.7	-0.37	-2.42	-2.31	-12.78	-5.37	-9.3	-7.21	-7.45	0.04	-1.06	-5.67	-19.25
180	1.52	1.44	-0.53	-6.71	-14.96	-9.28	-12.47	-5.53	-10.23	-3.84	-2.13	-4.74	-19.25
195	0.78	1.6	-0.61	-13.75	-15.64	-12.46	-23.99	-8.44	-19.14	-6.23	-2.6	-3.29	-19.25
210	-0.65	0.18	-4.39	-13.5	-10.73	-9.05	-15.81	-19.06	-38.81	-4.75	-3	-1.27	-19.25
225	-3.22	-2.31	-14.67	-11.16	-12.34	-14.97	-29.93	-25.52	-10.38	-5.88	-4.71	-0.88	-19.25
240	-6.96	-7.52	-15.2	-9.37	-12.34	-12.03	-13.87	-15.83	-11.84	-8.12	-6.91	-1.98	-19.25
255	-9.74	-21.52	-10.15	-8.23	-11.53	-13.87	-16.31	-11.65	-12.91	-14.87	-10.13	-5.28	-19.25
270	-6.62	-8.55	-7.08	-11.57	-16.49	-24.03	-15.11	-24.81	-23.09	-14.59	-12.24	-14.4	-19.25
285	-2.92	-3.21	-3.43	-10.24	-12.24	-17.49	-10.29	-12.25	-14.34	-5.5	-13.96	-11.34	-19.25
300	-0.24	-0.99	-3.36	-17.38	-18.19	-11.56	-11.9	-22.36	-10.31	-9.15	-6.88	-2.31	-19.25
315	1.41	0.24	-2.67	-5.93	-9.32	-10.58	-8.55	-19.4	-6.81	-4.93	-4.02	1.86	-19.25
330	2.42	1.4	-0.79	-2.99	-9.98	-5.18	-4.47	-16.2	-5.94	-1.35	-1.19	3.59	-19.25
345	2.81	2.53	1.21	-0.07	-8.54	-4.92	-2.58	-16.6	-2.64	-0.7	-0.21	4.64	-19.25

Composite Gain													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.58	5.52	5.13	4.45	-0.93	1.35	0.68	-3	1.59	4.61	4.39	8.76	-10.96
15	1.97	5.04	5.66	5.37	-1.93	1.25	3.08	-3.21	0.89	3.67	3.28	8.63	-10.96
30	1.66	4.2	4.44	3.24	-2.64	-1.14	-0.71	-6.09	1.13	2.41	3.2	8.24	-10.96
45	1.32	3.13	2.35	-2.02	-2.54	-2.13	-3.73	-2.85	0.97	2.96	2.67	6.86	-10.96
60	0.61	1.73	0.93	-2.21	-2.51	-3.04	-3.89	-6.25	-3.2	0.43	1.11	3.86	-10.96
75	-0.08	0.45	-1.11	0.1	-1.34	-3.47	-6.27	-5.89	-8.16	-1.9	-0.58	0.13	-10.96
90	0.24	-0.03	0.13	0.12	-2.13	-2.14	-5.23	-5.93	-7.64	-3.45	-3.65	-3.06	-10.96
105	1.07	0.13	0.65	0.44	-4.99	-2.03	-2.99	-7.2	-10.94	-6.61	-6.68	-6.4	-10.96
120	1.95	1.13	-0.88	-0.44	-3.63	0.37	-1.42	-1.4	-8.32	-5.17	-3.86	-2.23	-10.96
135	2.52	1.64	-3.73	-4.44	-3.44	0.15	-0.36	-0.62	0.61	-1.21	-1.57	-0.56	-10.96
150	2.72	1.36	-3.15	-0.61	-3.6	0.89	-2.13	-2.34	-0.32	0.51	0.48	-0.29	-10.96
165	2.53	1.38	-0.31	0.83	-6.7	0.41	-1.79	-4.29	-8.05	-1.66	0.89	-1.03	-10.96
180	2.03	2.02	0.53	-0.3	-10.54	-5.43	-5.94	-3.11	-6.08	0.21	-0.6	-0.45	-10.96
195	1.6	1.58	0.13	-4.18	-8.69	-0.39	-9.11	-3.22	-4.69	1.58	-0.51	0.07	-10.96
210	1.22	-0.34	-1.9	-4.86	-4.93	-0.51	-8.98	-4.67	-4.6	-0.09	0.54	2	-10.96
225	0.88	-1.82	-7.6	-2.77	-4.82	-8.01	-8.9	-2.46	-6.43	-1.94	0.4	2.42	-10.96
240	0.25	-2.59	-6.04	-5.66	-8.08	-5.08	-3.64	-3.52	-4.6	-3.29	0.37	2.04	-10.96
255	-0.22	-3.87	-1.27	-5.85	-7.16	-3.82	-4.49	-5.84	-2.25	-4.13	-2.44	0.32	-10.96
270	0.29	-1.81	-0.74	-3.82	-8.5	-2.08	-3.52	-6.34	-4.43	-5.02	-7.15	-3.12	-10.96
285	1.4	0.25	-1.37	-4.37	-4.34	0.01	-2.73	-3.7	-3.49	-1.32	-3.75	-4.07	-10.96
300	2.47	2.19	-0.51	-3.08	-2.42	1.7	-4.94	-6.74	-1.36	-0.57	1.99	1	-10.96
315	3.21	3.85	1.25	-2.26	-2.89	1.26	-0.19	-6.44	-1.11	1.49	3.79	4.79	-10.96
330	3.38	5.15	3.1	0.39	-0.92	2.53	2.66	-4.93	-0.94	4.1	4.86	6.87	-10.96
345	3.15	5.8	4.46	2.93	-0.72	1.6	2.53	-3.98	0.34	3.63	5.21	8.07	-10.96

Ant1													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-22.86	-16.73	-28.66	-15.06	-12.35	-9.24	-29.24	-16.26	-9.21	-10.8	-17.18	-7	-34.23
15	-22.07	-15.47	-18.99	-12.22	-17.9	-7.22	-10.95	-20.31	-13.68	-6.9	-19.28	-9.93	-34.23
30	-13.44	-11.34	-18.18	-8.98	-15.71	-11.93	-15.94	-16.29	-11.2	-4.22	-7.12	-15.58	-34.23
45	-9.77	-9.03	-22.38	-7.69	-13.21	-16.07	-24.26	-20.78	-6.38	-2.23	-5.2	-16.8	-34.23
60	-8.02	-7.9	-26.56	-7.8	-9.71	-13.7	-24.46	-11.69	-8.27	-4.72	-5.44	-15.62	-34.23
75	-7.15	-7.84	-25.88	-7.54	-7.12	-11.26	-17.67	-11.01	-20.08	-5.94	-6.67	-14.64	-34.23
90	-6.86	-9.16	-25.49	-6.4	-7.37	-7.81	-14.43	-19.38	-12.17	-5.65	-7.19	-12.08	-34.23
105	-7.24	-12.1	-25.37	-9.44	-11.5	-22.87	-12.85	-14.11	-13.33	-9.16	-9.71	-9.8	-34.23
120	-8.3	-18.32	-25.57	-15.95	-15.6	-12.72	-10.88	-8.71	-28.51	-16.29	-9.03	-9.31	-34.23
135	-9.98	-38.7	-26.12	-7.54	-21.85	-18.48	-10.88	-13.3	-12.62	-13.63	-9.44	-8.95	-34.23
150	-12.72	-17.13	-28.68	-9.82	-14.95	-9.45	-10.07	-22.81	-11.62	-12.61	-14.41	-13.13	-34.23
165	-17.12	-12.57	-14.24	-15.77	-14.62	-8.77	-9.87	-13.2	-19.06	-13.28	-14.69	-15.88	-34.23
180	-30.64	-10.83	-8.32	-4.33	-12.68	-9.26	-8.8	-16.09	-17.95	-9.2	-12.78	-14.42	-34.23
195	-20.1	-10.54	-7.05	-3.63	-9.33	-3.86	-12.89	-11.08	-11.13	-8.55	-12.09	-11.11	-34.23
210	-13.21	-11.76	-9.34	-5.4	-9.26	-9.12	-25.06	-17.68	-13.28	-12.62	-13.19	-9.66	-34.23
225	-9.87	-12.14	-18.69	-6.47	-7.45	-18.51	-17.98	-15.85	-17.78	-13.97	-17.51	-9.1	-34.23
240	-7.81	-10.68	-15.12	-17.9	-19.54	-18.89	-14.31	-19.85	-16.81	-14.62	-17.65	-10.78	-34.23
255	-6.47	-9.81	-9.25	-8.84	-11.64	-11.69	-18.1	-33.6	-21.82	-14.93	-16.61	-16.75	-34.23
270	-5.8	-9.38	-9.02	-5.28	-10.07	-16.12	-20.19	-10.71	-7.85	-8.93	-15.12	-34.23	-34.23
285	-5.73	-7.83	-9.31	-7.3	-11.24	-11.28	-14.51	-10.32	-13.19	-20.3	-22	-21.27	-34.23
300	-6.27	-6.45	-6.68	-7.04	-12.01	-10.18	-13.77	-20.47	-26.2	-11.46	-9.31	-15.2	-34.23
315	-7.48	-6.16	-6.94	-12.4	-25.38	-16.23	-15.2	-11.79	-9.94	-8.63	-8.82	-9.81	-34.23
330	-9.56	-7.47	-10.11	-9.25	-8.88	-7.84	-8.27	-9.91	-10.24	-5.75	-11.37	-6.51	-34.23
345	-13.68	-10.91	-15.49	-10.61	-7.51	-8.02	-9.77	-11.7	-10.97	-10.87	-12.56	-6.06	-34.23

Ant2													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.72	-5.94	-4.68	-1.61	-9.49	-5.78	-6.03	-1.66	-0.52	-1.37	-4.26	0.04	-30.67
15	-14.43	-7.38	-3.91	-5.35	-6.21	-7.95	-3.42	-4.06	-3	-5.81	-7.47	-1.09	-30.67
30	-20.45	-8.57	-7	-8.4	-11.38	-8.66	-12.07	-11.27	-4.88	-8.33	-10.44	-3.35	-30.67
45	-20.52	-8.6	-9.86	-11.87	-9.3	-16.48	-17.83	-9.1	-3.83	-7.7	-13.1	-7.92	-30.67
60	-14.95	-8.17	-3.33	-5.36	-7.93	-15.46	-10.5	-12.68	-8.56	-12.21	-25.12	-15.88	-30.67
75	-11.35	-6.99	-0.55	-0.29	-7.76	-11.25	-5.19	-12.11	-18.24	-21.16	-16.59	-22.51	-30.67
90	-9.4	-4.24	0.45	-0.79	-4.46	-4.11	-3.11	-8.66	-14.28	-18.93	-24.09	-16.08	-30.67
105	-8.14	-1.93	1.18	-3.37	-6.11	-1	-0.83	-9.83	-16.5	-18.02	-14.63	-20.11	-30.67
120	-7.66	-1.28	-0.15	-4.28	-4.62	2.52	0.28	-1.16	-15.7	-12.16	-15.31	-30.67	-30.67
135	-7.65	-1.84	-5.34	-9.78	-5.14	3.31	0.85	-1.92	-2.72	-6.52	-22.21	-22.06	-30.67
150	-7.98	-3.19	-27.72	-7.71	-6.95	-0.1	-2.28	-2.75	-3.24	-8.37	-11.98	-10.62	-30.67
165	-8.53	-4.89	-9.2	-4.32	-7.34	-4.55	-7.09	-6.57	-10.56	-18.99	-9.72	-6.72	-30.67
180	-9.77	-7.64	-8.75	-5.79	-11.14	-10.42	-11.13	-8.19	-9.2	-8.75	-11.38	-4.42	-30.67
195	-11.99	-13.61	-11.15	-15.72	-10.07	-4.51	-19.74	-9.1	-7.74	-7.57	-9.37	-4.2	-30.67
210	-16.13	-22.35	-13.14	-11.35	-14.84	-7.59	-18.11	-14.03	-11.18	-15.52	-8.2	-4.67	-30.67
225	-20.05	-16.46	-12.81	-9.52	-8.9	-10.76	-11.72	-11.65	-8.55	-18.16	-7.28	-5.42	-30.67
240	-15.35	-15.54	-10.09	-12.61	-12.07	-7.46	-5.18	-7.87	-7.95	-12.33	-3.42	-7.14	-30.67
255	-11.37	-16.89	-9.5	-28.51	-20.21	-8.99	-4.83	-6.52	-5.9	-4.93	-5.98	-7.58	-30.67
270	-8.61	-11.85	-13.22	-32.43	-14.11	-4.44	-3.04	-5.4	-8.77	-8.23	-10.76	-7.1	-30.67
285	-7.2	-8.21	-7.55	-8.44	-15.11	-6.17	-5.37	-1.72	-3.99	-6.9	-6.01	-6.3	-30.67
300	-6.46	-6.49	-5.21	-3.22	-6.3	-4.83	-7.05	-7.75	-1.87	-8.01	-3.11	-3.72	-30.67
315	-6.38	-5.44	-5.83	-4.57	-10.78	-5.28	-5.33	-9.92	-2.97	-4.85	-2.42	-1.78	-30.67
330	-7.07	-4.68	-6.72	-5.18	-13.45	-10.66	-1.47	-6.17	-1.77	-4.82	0.28	-0.03	-30.67
345	-8.38	-4.81	-6.64	-2.99	-11.86	-6.96	-3.89	-5.6	-0.39	-2.09	-0.9	0.07	-30.67

Ant3													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.9	3.56	3.63	1.2	-5.98	-1.13	-4.23	-13.16	-5.3	0.95	2.7	4.6	-9.83
15	-1.29	3.1	1.51	2.3	-5.11	1.13	-0.69	-7.22	-2.01	-2.23	2.45	4.19	-9.83
30	-2.02	1.78	-1.3	-1.04	-1.4	0.06	-1.18	-10.54	-1.31	-2.86	-0.06	4.66	-9.83
45	-3.1	-1.13	-2.63	-3.73	-6.49	-2.44	-3.11	-22.11	-2.54	-2.92	0.01	3.98	-9.83
60	-4.55	-5.2	-4.86	-8.81	-10.32	-4.41	-5.29	-18.41	-4.43	-4.74	-1.61	0.6	-9.83
75	-6.17	-6.83	-8.15	-7.99	-11.1	-5.27	-10.33	-16.13	-6.94	-4.39	-3.7	-5.26	-9.83
90	-7.84	-7.8	-8.85	-10.68	-10.54	-14.96	-13.4	-11.76	-6.01	-7.84	-9.61	-9.83	-9.83
105	-7.91	-13.79	-7.71	-8.68	-15.54	-12.59	-10.35	-13.93	-13.22	-17.17	-29.38	-5.04	-9.83
120	-6.29	-25.47	-11.9	-8.04	-9.94	-13.95	-22.07	-28.66	-28.05	-9.54	-9.36	-1.75	-9.83
135	-4.4	-10.71	-20.87	-27.4	-14.89	-16.39	-11.27	-11.45	-10.57	-3.29	-3.16	-1.83	-9.83
150	-2.86	-7.99	-11.15	-8.95	-8.71	-9.39	-18.95	-22.73	-17.55	-4.63	-0.63	-1.13	-9.83
165	-1.87	-8.09	-9.09	-5.83	-16.82	-5.38	-10.38	-29.89	-28.59	-10.13	-2.44	-2.35	-9.83
180	-1.31	-9.68	-7.3	-15.55	-13.47	-11.58	-13.71	-11.67	-14.27	-3.93	-4.22	-4	-9.83
195	-1.34	-8.19	-5.83	-14.35	-16.76	-5.71	-11.86	-10.16	-5.1	-0.05	-4.69	-7.29	-9.83
210	-1.61	-6.49	-8.44	-9.02	-7.71	-2.15	-9.48	-4.32	-2.77	-1.26	-1.57	-3.08	-9.83
225	-2.66	-5.16	-14.61	-12.33	-18.64	-9.09	-9.04	-0.2	-15.03	-2.58	-1.03	-2.28	-9.83
240	-4.06	-4.34	-9.27	-19.69	-12.14	-7.83	-9.56	-3.14	-6.94	-5.59	-2.24	-1.55	-9.83
255	-5.77	-4.15	-3.53	-6.32	-7.14	-9.19	-7	-11.64	-2.68	-11.68	-8.99	-1.39	-9.83
270	-6.99	-4.69	-2.74	-6.92	-11.75	-2.76	-9.74	-24.91	-7.65	-15.51	-20.84	-3.8	-9.83
285	-6.17	-5.26	-4.15	-3.87	-4.62	-1.38	-24.18	-15.23	-9.28	-6.27	-6.9	-4.88	-9.83
300	-4.19	-3.97	-4.46	-5.3	-1.37	0.9	-8.65	-5.48	-6.05	-1.63	-0.63	-1.21	-9.83
315	-2.67	-1.12	-2.51	-7.13	-4.04	-0.18	-4.12	-6.9	-20.22	-1.12	2.23	1.5	-9.83
330	-1.5	1.59	-0.18	-3.4	-4.99	0.43	-6.37	-16.41	-6.68	2.33	2.33	2.84	-9.83
345	-0.88	3.19	2.81	-1.27	-5.79	-0.82	-4.51	-12.49	-5.22	0.29	3.79	4.19	-9.83

Ant4													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	3.13	4.06	2.31	0.07	-5.86	-3.34	-4.54	-6.85	-0.96	-1.28	-0.74	4.7	-21.11
15	2.49	3.69	3.18	0.5	-6.94	-2.65	-2.04	-6.68	-4.35	1.75	-0.99	5.65	-21.11
30	1.13	3.06	2.96	-3.47	-3.49	-3.84	-2.06	-10.1	-6.49	1.57	1.05	6.09	-21.11
45	-1.12	1.55	1.27	-10.85	-6.03	-3.11	-8.58	-5.43	-9.48	0.59	1.47	5.1	-21.11
60	-4.43	-1.5	-2.55	-12.16	-5.22	-8.2	-16.17	-10.91	-23.11	-2	0.69	2.5	-21.11
75	-7.89	-6.17	-6.35	-8.43	-2.55	-9.39	-8.78	-20.7	-21.13	-5.18	-1.49	-1.44	-21.11
90	-6.87	-9.18	-4.02	-4.48	-9.73	-12.01	-21.82	-13.81	-17.97	-7.05	-4.1	-6.55	-21.11
105	-3.63	-6.24	-3.65	-1.29	-10.47	-18.22	-15.38	-13.56	-8.86	-8.67	-9.31	-21.11	-21.11
120	-1.18	-3.27	-3.33	-2.57	-18.27	-9.9	-9.34	-12.71	-12.95	-7.63	-8.18	-6.14	-21.11
135	0.47	-1.41	-3.39	-8.8	-10.58	-19.77	-16.82	-3.36	-5.47	-6.21	-5.18	-3.75	-21.11
150	1.58	-0.54	-5.01	-4.94	-11.23	-10.66	-19.35	-6.9	-0.28	-0.33	-3.39	-4.25	-21.11
165	1.97	-0.74	-3.88	-4.01	-21.63	-5.97	-20.27	-12.95	-5.47	-0.48	-2.17	-5.15	-21.11
180	1.83	-1.53	-1.85	-6.33	-23.17	-7.55	-22.2	-8.39	-10.82	-4.31	-3.77	-4.79	-21.11
195	1.27	-1.85	-2.05	-13.25	-22.5	-11.6	-18.44	-10.7	-14.73	-6.54	-4.19	-2.96	-21.11
210	-0.18	-3.57	-5.06	-14.23	-11.77	-8.66	-15.5	-18.43	-18.01	-7.09	-5.06	-1.76	-21.11
225	-2.25	-6.69	-11.49	-17.09	-12.39	-13.64	-20.74	-29.54	-9.06	-7.4	-7.84	-1.62	-21.11
240	-5.63	-12.32	-17.46	-8.95	-15.2	-9.16	-14.34	-11.93	-10.55	-9.34	-7.27	-3.25	-21.11
255	-9.5	-29.38	-13.47	-9.88	-12.45	-13.63	-27.07	-18.25	-12.8	-13.56	-8.48	-8.45	-21.11
270	-7.04	-9.2	-7.76	-15.52	-20.11	-19.39	-15.14	-26.18	-23.5	-13.62	-14.35	-19.22	-21.11
285	-3.06	-3.56	-4.47	-11.25	-16.89	-18.58	-12.39	-18.19	-11.12	-6.1	-16.76	-11.7	-21.11
300	-0.16	-0.79	-4.28	-28.01	-17.19	-17.9	-14.31	-19.78	-9.19	-10.63	-6.99	-3.65	-21.11
315	1.6	0.91	-2.99	-7.61	-14.67	-11.46	-12.29	-16.41	-5.5	-4.52	-4.3	0.61	-21.11
330	2.69	2.53	-1.55	-3.54	-12.36	-10.26	-7.54	-9.28	-4.99	-1.65	-1.82	2.52	-21.11
345	3.13	3.8	0.38	-1.19	-5.57	-6.32	-6.95	-8.23	-1.02	-1.81	-1.85	3.84	-21.11

Composite Gain													
Freq	6525												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.6	5.47	4.72	3.98	-2	1.65	-1.2	-1.65	2.69	3.87	3.62	7.73	-12.78
15	1.81	4.99	4.56	3.94	-1.82	2.64	2.52	-1.82	1.27	3.41	2.77	7.49	-12.78
30	0.98	4.33	3.04	1.19	-0.2	1.11	0.3	-5.71	0.75	3.28	3.12	7.18	-12.78
45	-0.01	2.92	1.19	-1.91	-2.3	-1.1	-4.01	-5.55	0.85	3.44	3.39	5.86	-12.78
60	-1.07	0.76	0.2	-2.18	-2.04	-3.31	-5.53	-6.96	-2.92	0.83	1.95	2.71	-12.78
75	-1.91	-0.92	-0.62	0.69	-0.57	-2.9	-3.42	-8.2	-8.41	-1.18	0.45	-1.65	-12.78
90	-1.66	-1.33	0.41	1.14	-1.67	-2.74	-4.55	-6.57	-5.46	-2.59	-2.77	-4.45	-12.78
105	-0.51	-1.2	1.09	1.01	-4.24	-3.61	-1.88	-6.65	-6.52	-6.19	-7.04	-5.43	-12.78
120	0.65	-1.29	-0.13	-0.4	-4.48	0.38	-1.22	-2.44	-12.65	-4.82	-4.04	-1.5	-12.78
135	1.55	-0.17	-3.37	-4.81	-5.11	-0.74	-0.89	-0.15	-0.94	-0.66	-1.62	-0.47	-12.78
150	2.11	0.71	-6.78	-1.63	-3.95	-0.19	-3.72	-3.57	0.22	0.69	0.21	0.03	-12.78
165	2.19	0.49	-2.32	-0.39	-7.51	-0.01	-4.71	-6.51	-6.22	-2.01	0.19	-0.27	-12.78
180	1.76	-0.59	-0.05	-1.06	-8.06	-3.55	-6.7	-4.53	-6.42	-0.19	-1.1	-0.01	-12.78
195	1.46	-1.39	0.09	-4.21	-7.18	0.08	-9.06	-4.21	-2.93	1.05	-0.97	0.16	-12.78
210	0.77	-2.67	-2.51	-3.38	-4.47	-0.37	-9.32	-5.54	-3.44	-1.37	0.01	1.7	-12.78
225	-0.32	-3.02	-7.99	-4.51	-4.88	-6.31	-7.63	-2.89	-5.74	-2.54	-0.63	1.89	-12.78
240	-1.27	-3.69	-6.32	-7.72	-8.23	-3.8	-3.96	-2.76	-3.8	-3.78	0.05	1.03	-12.78
255	-1.97	-5.03	-2.17	-4.42	-5.7	-4.65	-4.52	-7.16	-2.2	-4.32	-3.21	-0.95	-12.78
270	-1.03	-2.36	-1.36	-4.53	-7.25	-1.99	-3.72	-6.61	-4.08	-5.02	-8.55	-4.32	-12.78
285	0.62	0.02	-0.09	-1.29	-4.58	-1.23	-5.77	-2.97	-2.66	-2.33	-4.6	-3.09	-12.78
300	2.15	1.92	0.91	-1.32	-1.27	0.5	-4.36	-4.89	-1.41	-0.97	1.65	1.41	-12.78
315	3.05	3.57	1.65	-1.48	-4.76	-0.24	-2.05	-4.59	-1.63	1.64	3.58	4.61	-12.78
330	3.46	4.97	2.24	0.97	-3.25	0.24	0.55	-3.7	0.63	4.15	4.66	6.43	-12.78
345	3.3	5.69	3.69	2.73	-1.33	0.98	0.03	-3.04	2.53	3.28	4.84	7.39	-12.78

Ant1													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-22.62	-17.99	-11.72	-10.14	-24.33	-7.7	-24.71	-21.24	-10.21	-3.85	-17.22	-2.73	-22.75
15	-33.98	-14.55	-12.76	-7.16	-11.12	-5.28	-14.92	-20.28	-5.6	-3.98	-12.55	-2.97	-22.75
30	-21.68	-14.21	-13.88	-6.53	-9.63	-8.72	-13.05	-12.85	-8.95	-10.11	-8.12	-4.18	-22.75
45	-16.97	-15.52	-13.96	-7.78	-16.64	-14.78	-13.67	-9.8	-13.19	-17.43	-5.06	-6.08	-22.75
60	-13.7	-17.2	-14.04	-12.33	-24.12	-23.53	-20.8	-10.5	-15.56	-17.56	-4.91	-7.33	-22.75
75	-11.59	-18.39	-13.98	-14.32	-20.17	-13.11	-12.04	-21.74	-16.57	-14.29	-8.37	-8.66	-22.75
90	-10.94	-16.63	-17.54	-10.03	-12.21	-11.68	-14.94	-9.9	-12.81	-19.87	-12.52	-9.42	-22.75
105	-10.5	-13.79	-27.65	-17.67	-13.35	-16.94	-11.67	-17.2	-9.56	-12.54	-15.05	-10.73	-22.75
120	-10.74	-11.69	-14.24	-31.18	-16.55	-22.98	-8.89	-10.1	-11.7	-14.28	-16.34	-14.85	-22.75
135	-11.79	-11.5	-12.2	-33.39	-12.72	-6.36	-17.28	-14.77	-15.79	-21.99	-16.92	-13.19	-22.75
150	-13.68	-12.3	-18.06	-13.41	-13.38	-8.42	-6.22	-11.96	-22.41	-18.36	-14.45	-13.11	-22.75
165	-17.35	-12.21	-23.05	-11.08	-15.03	-15.79	-11.89	-11.78	-14.25	-7.51	-16.26	-15.57	-22.75
180	-23.44	-12.44	-18.81	-19.36	-13.4	-13.31	-6.71	-9.75	-15.99	-6.74	-12.34	-18.95	-22.75
195	-27.59	-13.93	-13.24	-14.67	-14.16	-9.16	-20.17	-10.27	-15.82	-10.53	-10.67	-16.84	-22.75
210	-19.4	-16.14	-14.99	-18.22	-19.65	-11.49	-13.16	-14.93	-11.69	-21.25	-13.76	-14.45	-22.75
225	-14.73	-22.48	-16.95	-15.16	-13.89	-15.57	-15.76	-14.09	-10.56	-11.91	-20.39	-12.72	-22.75
240	-12.23	-20.62	-14.72	-12.54	-19.15	-15.5	-13.05	-15.57	-17.62	-9.79	-23.39	-14.65	-22.75
255	-10.41	-16.19	-15	-9.32	-13.8	-18.4	-17.17	-15.81	-16.45	-10.94	-7.27	-17.3	-22.75
270	-9.45	-14.72	-16.25	-13.75	-31.96	-19.84	-14.09	-17.16	-13.5	-10.08	-12.9	-16.11	-22.75
285	-9.37	-16.08	-10.81	-6.78	-15.6	-25.11	-23.36	-22.22	-22.51	-12.67	-23.78	-17.98	-22.75
300	-10.05	-17.24	-9.73	-4.45	-15.78	-26.93	-13.94	-17.77	-14.48	-11.44	-11.64	-22.75	-22.75
315	-11.45	-16.42	-15.53	-9.31	-16.02	-13.81	-17	-13.94	-12.79	-9.14	-13.34	-13.27	-22.75
330	-13.53	-17.52	-18.31	-10.41	-10.63	-8.3	-7.85	-12.61	-8.77	-7.38	-23.55	-6.83	-22.75
345	-16.65	-21.15	-13.15	-10.88	-14.31	-13.56	-11.88	-16.39	-17.16	-8.87	-16.94	-4.12	-22.75

Ant2													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.86	-6.07	-6.03	-2.26	-0.54	-5.71	-8.69	-5.57	-0.48	-3.1	-4.76	-9.71	-25.58
15	-10.92	-7.32	-9.32	-5.37	-6	-11.3	-4.41	-3.95	-0.51	-4.69	-7.57	-7.95	-25.58
30	-15.31	-10.24	-11.19	-16.9	-8.71	-6.45	-2.94	-3.12	-3.46	-9.59	-18.52	-8.49	-25.58
45	-21.59	-15.28	-14.9	-16.02	-9.41	-12.79	-16.11	-7.73	-3.74	-10.91	-12.28	-8.25	-25.58
60	-17.01	-14.74	-4.33	-6.56	-8.29	-16.87	-10.89	-8.85	-6.17	-12.39	-9.65	-8.3	-25.58
75	-11.92	-13.37	-1.59	0.52	-5.76	-9.78	-4.39	-12.69	-15.12	-14.06	-15.69	-11.52	-25.58
90	-8.89	-12.37	-1.96	0.03	-5.1	-4.76	-5.49	-9.95	-9.12	-11.45	-13.07	-12.17	-25.58
105	-7.11	-9.56	-3.03	-1.77	-8.31	-1.05	-1.33	-9.38	-17.08	-12.93	-21.73	-17.8	-25.58
120	-6.19	-6.27	-6.27	-4.99	-15.07	-0.14	-0.61	-2.44	-16.79	-12.79	-12.78	-25.58	-25.58
135	-5.65	-4.2	-8.63	-9.32	-10.23	-2.1	-1.27	-2.89	-9.1	-8.35	-15.76	-16.76	-25.58
150	-5.75	-3.48	-7.72	-12.71	-8.85	-3.71	-8.19	-4.36	-3.55	-7.63	-15.95	-9.95	-25.58
165	-6.39	-4.29	-7.61	-16.8	-10.65	-6.36	-8.34	-19.07	-15.18	-12.45	-11.93	-8.11	-25.58
180	-7.95	-6.64	-5.52	-13.92	-17.37	-5	-9.59	-6.48	-13.34	-16.07	-15.66	-8.36	-25.58
195	-10.55	-9.29	-5.41	-15.48	-19.18	-5.8	-14.62	-14.62	-14.38	-21.44	-7.39	-8.08	-25.58
210	-15.02	-10.5	-9.19	-10.81	-14.2	-4.7	-11.63	-15.01	-17.43	-15.8	-5.96	-17.58	-25.58
225	-22.78	-11.57	-11.21	-10.04	-13.19	-11.46	-19.53	-15.77	-12.92	-21.55	-6	-11.8	-25.58
240	-16.83	-11.12	-10.2	-7.21	-11.81	-25.02	-9.36	-7.43	-10.53	-18.13	-2.74	-12.21	-25.58
255	-11.03	-8.48	-5.4	-6.32	-12.72	-9.55	-11.2	-6.14	-10.92	-10.02	-9.46	-13.49	-25.58
270	-7.98	-6.52	-3.88	-2.64	-16.16	-37.84	-4.6	-0.81	-5.1	-11.16	-14.78	-10.9	-25.58
285	-6.03	-5.09	-2.22	-0.87	-9.08	-5.55	-2.94	-1.79	-1.77	-7.98	-5.24	-9.53	-25.58
300	-5.16	-3.59	-1.42	-0.23	-4.29	-7.5	-3.26	-5.02	-2.68	-5.38	-5.27	-8.9	-25.58
315	-4.93	-2.62	-2.03	-1.77	-1.21	-3.11	-5.99	-5.06	-8	-1.89	-9.33	-5.89	-25.58
330	-5.17	-3.07	-5.75	-5.23	-2.46	-1.68	-6.64	-3.43	-6.71	-3.28	-4.65	-4.51	-25.58
345	-6.16	-4.44	-7.55	-6.84	-0.63	-0.09	-3.66	-1.64	-3.52	-5.79	-4.03	-7.56	-25.58

Ant3													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.04	0.2	-2.1	-8.36	2.85	2.05	-3.28	0.61	0.99	0.45	-2.02	3.08	-19.14
15	-3.65	-1.08	-6.65	-10.53	1.21	0.73	-6.98	-2.57	-1.54	-0.16	-1.74	2.81	-19.14
30	-4.63	-3.08	-10.38	-14.84	-1.57	-2.7	-8.29	-1.33	-2.2	-1	-2.76	1.1	-19.14
45	-6.23	-5.86	-13.38	-10.09	-3.42	-7.33	-7.67	-1.31	-2.07	-1.49	-1.82	0.39	-19.14
60	-8.41	-8.87	-12.42	-14.32	-5.34	-9.36	-8.35	-4.64	-5.55	-3.6	-6.34	-2.43	-19.14
75	-10.42	-12.43	-7.6	-22.27	-9.99	-10.61	-9.2	-7.31	-6.35	-8.32	-6.39	-5.85	-19.14
90	-11.44	-16.91	-9.97	-16.16	-9.92	-11.94	-10.13	-6.34	-9.5	-9.41	-11.8	-10.43	-19.14
105	-9.49	-27.98	-12.89	-18.43	-13.01	-10.1	-13.79	-13.14	-12.73	-16.12	-20.29	-19.14	-19.14
120	-6.84	-17.34	-15.24	-17.25	-10.63	-19.94	-25.78	-16.01	-23.11	-21.58	-17.4	-9.65	-19.14
135	-4.87	-9.65	-16.32	-23.75	-15.45	-34.72	-13.75	-11.72	-7.39	-8.35	-7.29	-11.35	-19.14
150	-3.52	-6.43	-14.35	-13.96	-6.64	-16.09	-25.34	-18.23	-11.86	-2.94	-5.1	-10.84	-19.14
165	-2.45	-5.38	-16.5	-14.23	-13.89	-15.7	-13.75	-14.7	-16.19	-5.83	-5.98	-8.61	-19.14
180	-1.97	-4.34	-31.91	-17.74	-8.37	-26.93	-9.83	-8.35	-10.34	-10.88	-7.9	-10.43	-19.14
195	-2.21	-3.6	-24.58	-17.65	-7.27	-8.17	-8.71	-10.94	-2.58	-6.31	-7.08	-8.67	-19.14
210	-2.84	-4.77	-16.22	-13.62	-7.55	-4.46	-7.87	-8.21	-3.01	-2.48	-2.11	-10.22	-19.14
225	-4.23	-6.17	-11.53	-14.56	-17.11	-13.08	-4.96	-3.54	-6.26	-2.65	-3.37	-5.02	-19.14
240	-6.39	-6.21	-5.18	-13.39	-7.01	-7.57	-13.06	-4.41	-9.78	-10.86	-3.57	-5.24	-19.14
255	-9.11	-6.03	-4.24	-6.27	-12.34	-3.64	-14.83	-8.77	-11.61	-8.36	-3.42	-4.8	-19.14
270	-11.14	-6.88	-3.39	-2.71	-15.11	-15.44	-10.17	-15.1	-15.58	-18.56	-14.23	-7.01	-19.14
285	-9.09	-8.24	-3.56	-2.14	-8.03	-3.53	-5.55	-6.48	-15.28	-13.66	-19.74	-13.46	-19.14
300	-6.42	-7.52	-5.18	-1.11	-12.17	-8.27	-5.36	-1.75	-10.17	-10.17	-11.21	-9.99	-19.14
315	-4.59	-4.28	-4.88	-5.93	-6.01	-9.25	-10.51	-10.11	-14.33	-7.04	-7.55	-4.45	-19.14
330	-3.36	-1.28	-3.37	-9.94	-0.77	-2.07	-13.2	-5.93	-2.42	-2.39	-5.18	-0.75	-19.14
345	-2.86	0.28	-1.02	-10.2	0.13	-1.04	-11.72	-2.27	-0.74	-2.97	-0.42	2.23	-19.14

Ant4													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	4.09	2.88	0.27	-11.9	-4.82	-0.97	-3.93	-3.68	-1.37	-2.24	0.66	3.27	-18.61
15	3.3	2.66	1.03	-13.51	-0.54	1.13	-4.88	1.69	1.04	-2.21	-0.01	5.13	-18.61
30	1.81	1.54	-0.34	-11.59	0.58	-0.05	-3.15	2.4	-0.1	-2.74	0.4	5.72	-18.61
45	-0.77	-0.67	-3.29	-4.85	-0.45	-2.28	-7.57	-1.8	-1.31	-4.31	-0.31	4.88	-18.61
60	-5.14	-4.36	-4.51	-3.37	-3.18	-9.78	-8.7	-9.59	-8.77	-4.08	-3.48	1.39	-18.61
75	-12.83	-9.64	-4.33	-2.4	-7.32	-8.22	-24.87	-16.25	-4.71	-6.01	-11.7	-5	-18.61
90	-10.84	-8.43	-1.06	-2.45	-7.79	-13.9	-16.27	-14.96	-17.54	-8.22	-22.64	-18.61	-18.61
105	-4.03	-3.85	0.26	-3.08	-15.23	-4.72	-7.34	-24.89	-26.38	-8.14	-9.24	-16.38	-18.61
120	-0.44	-1.99	-1.39	-5.45	-15.97	-20.67	-8.34	-7.48	-6.96	-6.14	-7.38	-8.91	-18.61
135	1.75	-1.5	-3.06	-8.75	-7.77	-12.49	-2.31	-16.01	-7.33	-4.73	-5.41	-6.81	-18.61
150	2.99	-1.21	-2.58	-6.43	-4.79	-13.4	-10.06	-5.34	-16.53	-1.34	-6.06	-5.56	-18.61
165	3.58	-0.84	-4.23	-9.69	-14.96	-7.87	-12.2	-11.44	-5.59	-3.51	-6.72	-3.46	-18.61
180	3.54	-0.64	-5.11	-10.56	-21.73	-8.84	-16.68	-13.97	-7.6	-3.99	-11.8	-3.84	-18.61
195	2.84	-0.84	-6.58	-9.41	-11.26	-14.54	-11.75	-26.13	-14.69	-4.59	-10.27	-2.62	-18.61
210	1.4	-2.42	-12.14	-11.66	-12.01	-8.75	-14.22	-22.49	-9.58	-11.85	-7.7	-2.64	-18.61
225	-0.98	-4.94	-16.56	-10.9	-5.93	-11.37	-14.85	-18.98	-8.72	-20.33	-7.97	-3	-18.61
240	-5.1	-8.95	-20.28	-19	-10.5	-11.95	-14.63	-8.18	-28.74	-10.56	-8.66	-5.24	-18.61
255	-14.58	-16.39	-19.22	-22.76	-13.5	-23.26	-19.18	-16.82	-13.31	-16.13	-14.08	-10.5	-18.61
270	-11.05	-8.26	-12.13	-21.21	-9.66	-22.23	-23.08	-13.25	-14.65	-20.36	-13.87	-17.02	-18.61
285	-3.44	-3.4	-12.63	-11.02	-9.7	-10.43	-25.66	-13.03	-14.06	-11.88	-20.61	-12.95	-18.61
300	0.31	-1.49	-18.26	-15.81	-9.49	-8	-18.41	-11.95	-11.93	-12.06	-7.9	-4.99	-18.61
315	2.49	-0.38	-8.31	-13.65	-4.83	-5.74	-18.23	-8.66	-11.5	-9.26	-5.26	-2.27	-18.61
330	3.8	1.17	-5.89	-8.04	-7.71	-2.36	-13.1	-6.96	-5.45	-4.9	-1.77	-0.92	-18.61
345	4.22	2.43	-2.19	-6.03	-10.17	-2.52	-6.78	-7.02	-7	-3.84	0.61	1.59	-18.61

Composite Gain													
Freq	7025												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.87	3.64	2.2	-1.32	3.41	3.78	-1.17	1.37	4.16	3.99	2.24	5.89	-15.06
15	1.67	3.06	0.68	-2.58	3.13	3.65	-0.92	2.57	4.69	3.44	1.84	6.64	-15.06
30	0.31	1.58	-1.2	-5.52	2.28	2.18	0.07	3.81	2.9	1.08	1.16	6.15	-15.06
45	-1.79	-1.04	-3.88	-2.78	0.46	-1.88	-4.47	1.61	2	-0.58	2.2	5.3	-15.06
60	-3.87	-3.83	-1.72	-2.03	-1.51	-7.18	-4.99	-2.06	-2.21	-1.63	0.21	2.75	-15.06
75	-5.63	-6.9	0.24	0.38	-3.35	-4.23	-4.03	-6.95	-3.18	-3.91	-3.83	-1.38	-15.06
90	-4.45	-6.84	0.56	0.94	-2.34	-3.79	-4.61	-3.75	-5.63	-5.23	-8.07	-6	-15.06
105	-1.39	-4.3	0.02	-1.07	-6.06	-0.35	-1.15	-8.46	-8.5	-5.94	-9.11	-9.35	-15.06
120	0.77	-1.53	-1.39	-4	-8.2	-4.09	-1.28	-1.68	-6.71	-6.03	-6.52	-6.73	-15.06
135	2.19	0.23	-2.67	-8.03	-5.06	-2.37	-0.12	-3.63	-3.28	-2.95	-3.92	-5.26	-15.06
150	2.92	1.06	-2.67	-5.02	-1.85	-3.08	-4.11	-2.38	-4.85	0.45	-3.08	-3.39	-15.06
165	3.16	1.22	-4.08	-6.5	-7.42	-4.36	-5.29	-7.73	-5.61	-0.73	-3.28	-1.93	-15.06
180	2.82	0.98	-4.26	-8.69	-7.82	-4.55	-4	-3.21	-5.23	-2.3	-5.46	-2.86	-15.06
195	1.94	0.48	-3.86	-7.72	-5.91	-2.86	-6.85	-7.69	-3.88	-2.76	-2.68	-1.69	-15.06
210	0.75	-0.97	-6.68	-7.13	-6.29	-0.86	-5.35	-7.74	-2.89	-4.04	-0.42	-3.3	-15.06
225	-1.09	-3.12	-7.63	-6.36	-5.47	-6.69	-5.9	-4.9	-3.25	-4.65	-1.54	-1.12	-15.06
240	-2.95	-4.31	-4.88	-6.04	-5.1	-6.98	-6.28	-2.03	-8.07	-5.76	-0.78	-2.36	-15.06
255	-5.04	-4.56	-2.87	-3.2	-7.05	-4.59	-9.05	-4.7	-6.8	-4.9	-1.71	-4.28	-15.06
270	-3.79	-2.53	-1.32	-1.1	-9.3	-14.87	-4.68	-2.84	-5.05	-7.92	-7.9	-5.77	-15.06
285	-0.61	-1.03	-0.18	1.68	-4.14	-2.21	-3.35	-2	-4.01	-5.24	-7.87	-6.96	-15.06
300	1.51	0.26	-0.68	0.06	-3.39	-4.08	-2.23	-1.11	-2.58	-3.31	-2.59	-3.67	-15.06
315	2.79	1.79	-0.39	-0.58	0.43	-1.09	-5.48	-2.85	-5.31	-0.25	-2.37	0.4	-15.06
330	3.49	3.05	-0.8	-2.14	1.49	2.79	-3.67	-0.62	0.49	1.73	0.08	3.13	-15.06
345	3.48	3.65	1.24	-2.22	1.75	3.03	-1.79	0.81	0.71	0.93	2.91	4.95	-15.06

7.3 DG_NSSmax Test Data (ANT1/2/3/4 & ANT7/8/9/10)

Ant1													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.05	-8.13	-6.52	-5.72	-5.03	-0.65	0.5	-0.86	-2.3	-3.66	-10.5	-8.81	-9.39
15	-10.65	-8.38	-6.86	-8.16	-7.39	-2.73	-2.27	-4.05	-3.21	-3.16	-10.99	-8.68	-9.39
30	-11.06	-8.85	-6.27	-7.7	-10.48	-5.72	-5.61	-6.45	-5.26	-3.19	-12.42	-8.31	-9.39
45	-11.11	-9.8	-5.85	-5.71	-12.4	-11.31	-10.25	-8.82	-7.23	-4.94	-13.27	-7.87	-9.39
60	-10.85	-11.18	-6.66	-5.89	-9.03	-11.67	-16.87	-12.63	-10.28	-9.2	-12.55	-8.05	-9.39
75	-10.21	-12.95	-9.1	-9.28	-6.61	-7.89	-16.31	-16	-14.66	-12.8	-13.11	-8.45	-9.39
90	-9.67	-14.59	-15.3	-17.83	-8.13	-7.64	-15.44	-16.15	-13.19	-13.11	-12.82	-8.49	-9.39
105	-9.72	-15.45	-20.33	-15.68	-12.25	-11.11	-10.29	-11.62	-14.69	-10.52	-10.39	-8.4	-9.39
120	-9.68	-15.09	-18.18	-9.92	-11.58	-9.56	-5.99	-8.3	-12.97	-8.73	-8.42	-8.64	-9.39
135	-9.63	-14.2	-14.19	-6.29	-6.58	-6.14	-4.48	-7.27	-11.39	-8.59	-7.85	-9	-9.39
150	-9.58	-13.14	-10.7	-4.18	-3.61	-3.15	-5.5	-9.61	-10.53	-8.73	-7.32	-9.37	-9.39
165	-9.51	-12	-8.54	-3.16	-1.69	-1.39	-5.8	-11.28	-13.1	-8.09	-8.22	-9.39	-9.39
180	-9.31	-10.82	-7.62	-2.27	-1.07	-0.44	-4.69	-8.04	-7.23	-9.98	-9.93	-7.75	-9.39
195	-9.14	-9.78	-7.14	-2	-1.26	-0.77	-2.58	-3.68	-6.26	-9.93	-6.96	-5.24	-9.39
210	-9.01	-9.06	-6.54	-2.29	-2.12	-0.85	-0.68	-1.67	-4.9	-6.09	-5.49	-3.44	-9.39
225	-8.94	-8.76	-6.03	-2.27	-2.73	-0.74	0.7	-0.74	-2.89	-3.29	-4.54	-2.56	-9.39
240	-9.09	-8.5	-5.27	-1.86	-3.48	0.13	0.54	-0.03	-1.19	-1.44	-3.34	-2.31	-9.39
255	-9.38	-8.29	-4.35	-1.11	-3.16	0.05	0.64	1.57	-0.35	-0.47	-3.21	-2.5	-9.39
270	-9.66	-7.99	-3.62	0.01	-1.78	0.61	1.81	2.69	0.2	-1.03	-4.05	-3.07	-9.39
285	-9.95	-7.65	-3.35	0.9	-0.36	1.96	2.96	2.9	-1.27	-3.25	-5.51	-4.09	-9.39
300	-10.16	-7.53	-3.12	0.61	0.41	3.26	3.6	2.32	-3.05	-7.63	-8.02	-5.61	-9.39
315	-10.18	-7.71	-3.21	-0.7	0.44	3.26	4.04	2.41	-4.51	-9.31	-10.65	-7.13	-9.39
330	-10.21	-8.01	-3.95	-1.76	-1.4	2.93	3.63	2.31	-2.95	-7.49	-11.13	-8.18	-9.39
345	-10.04	-8.23	-5.34	-3.12	-3.21	1.4	2.55	1.33	-2.4	-4.81	-10.55	-8.83	-9.39

Ant2													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.66	-8.21	-5.89	-5.46	-5.12	0.14	2.59	1.6	-3	-4.41	-6.91	-7.83	-9.12
15	-12.03	-9.77	-7.32	-6.44	-4.6	0.68	2.52	0.27	-5.26	-10.65	-10.75	-8.53	-9.12
30	-12.03	-11.4	-7.02	-4.94	-3.31	2.04	2.41	-0.69	-6.83	-11.35	-12.34	-7.88	-9.12
45	-11.37	-12.93	-5.98	-1.9	-1.07	2.21	2.78	-0.95	-4.6	-7.7	-8.61	-6.95	-9.12
60	-10.52	-14.82	-5.42	0.11	0.15	2.47	2.17	-0.06	-2.9	-5.03	-6.84	-6.29	-9.12
75	-10.07	-17.7	-5.64	0.76	0.6	2.28	2.4	1.35	-1.22	-4.23	-7.62	-6.04	-9.12
90	-10.07	-21.26	-6.83	-0.04	0.71	2.34	3.49	2.8	-0.08	-4.44	-9.02	-5.77	-9.12
105	-10.15	-19.76	-8.92	-2.37	-0.16	2.77	4.03	3.24	0.25	-4.37	-9.18	-5.33	-9.12
120	-10.18	-15.17	-9.11	-4.94	-2.24	1.84	3.03	2.72	0.33	-3.57	-8	-5.84	-9.12
135	-10.01	-11.96	-6.56	-4.6	-5.47	-2.23	-0.07	1.95	0.31	-3.29	-7.79	-7.33	-9.12
150	-9.89	-9.98	-4.56	-3.59	-8.26	-9.8	-2.68	1.03	-0.71	-4.77	-8.41	-8.53	-9.12
165	-10.05	-8.84	-3.87	-3.89	-7.56	-5.87	-2.11	-1.67	-3.89	-8.5	-8.87	-9.12	-9.12
180	-10.35	-8.42	-4.42	-5.52	-6.63	-4.78	-3.76	-5.69	-8.62	-10.07	-8.11	-8.78	-9.12
195	-10.35	-8.28	-5.74	-8.02	-6.99	-4.24	-5.41	-4.1	-7.29	-5.94	-7.61	-8.05	-9.12
210	-10.2	-8.52	-7.19	-11.29	-6.52	-3.98	-2.75	-2.98	-4.18	-5.31	-6.37	-7.42	-9.12
225	-10.23	-8.93	-8.57	-13.56	-7.75	-3.19	-3.83	-2.65	-6.12	-5.99	-4.78	-6.72	-9.12
240	-10.57	-9	-9.66	-17.61	-8.55	-4.95	-6.02	-5.23	-12.37	-8.15	-4.88	-5.38	-9.12
255	-11.37	-8.88	-9.81	-21.05	-10.34	-5.78	-6.17	-6.15	-12.99	-8.62	-5.49	-4.32	-9.12
270	-12.06	-8.35	-8.6	-14.73	-10.15	-5.93	-4.01	-3.74	-6.94	-5.42	-4.9	-3.98	-9.12
285	-12.33	-7.73	-6.6	-8.45	-8.4	-5.67	-3.19	-2.76	-4.34	-3.72	-3.49	-3.86	-9.12
300	-12.06	-6.94	-4.58	-5.1	-8.16	-6.62	-4.06	-2.94	-4.17	-3.46	-2.92	-3.78	-9.12
315	-11.68	-6.42	-3.35	-3.45	-7.49	-10.24	-6.12	-2.74	-3.81	-1.53	-3.04	-4.12	-9.12
330	-11.32	-6.44	-3.38	-2.61	-6.93	-5.99	-2.42	-0.91	-2.19	-0.65	-3.03	-5.1	-9.12
345	-11.4	-6.97	-4.31	-3.67	-5.29	-1.43	1.28	1.05	-1.75	-1.43	-3.95	-6.3	-9.12

Ant3													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-1.36	-2.29	-1.82	-1.92	-4.48	-4.17	-6.9	-9.07	-10.02	-6.02	-5.02	-4.86	-11.81
15	-1.38	-2.64	-2.71	-2.81	-4.85	-6.01	-8.19	-13.44	-11.49	-6.36	-4.75	-5.32	-11.81
30	-1.4	-3.08	-3.67	-3.7	-4.87	-6.85	-10.45	-10.72	-15.64	-6.3	-4.59	-5.8	-11.81
45	-1.37	-3.49	-4.24	-4.51	-5.28	-6.92	-9.09	-12.16	-9.66	-7.29	-5.58	-6.84	-11.81
60	-1.24	-3.86	-4.63	-4.15	-7	-6.93	-8.05	-8.72	-7.72	-5.07	-6.67	-9.05	-11.81
75	-1.09	-4.21	-5.04	-3.47	-8.49	-8.3	-6.82	-8.44	-5.35	-3.14	-6.99	-11.12	-11.81
90	-0.92	-4.53	-5.27	-3.51	-9.09	-11.35	-5.21	-11.26	-3.35	-2.72	-7.42	-11.42	-11.81
105	-0.92	-4.66	-5.23	-4.41	-10.45	-10.21	-4.11	-13.68	-3.98	-3.47	-8.32	-11.81	-11.81
120	-0.96	-4.63	-5.17	-5.16	-10.53	-7.14	-3.8	-11.87	-9.21	-6.92	-8.8	-10.03	-11.81
135	-1.06	-4.52	-5.25	-4.59	-6.58	-6.12	-4.42	-8.96	-18.15	-16.39	-9.34	-6.97	-11.81
150	-1.1	-4.38	-4.97	-3.4	-4.71	-5.7	-6.35	-4.98	-7.92	-11.13	-11.61	-6.02	-11.81
165	-1.12	-4.05	-4.39	-2.87	-3.84	-4.55	-3.05	-2.19	-3.43	-6.2	-14.16	-6.4	-11.81
180	-1.02	-3.41	-3.54	-2.48	-4.38	-0.91	0.5	-0.13	-1.71	-4.12	-10.98	-7.61	-11.81
195	-1.05	-2.79	-2.71	-2.62	-3.22	0.9	2.66	1.46	-1.51	-1.64	-6.89	-7.94	-11.81
210	-1.14	-2.21	-1.66	-2.3	-2.47	1.78	3.19	2.31	-0.59	-0.41	-7.3	-7.39	-11.81
225	-1.24	-1.74	-0.52	-1.33	-1.79	1.99	3.09	2.56	0.57	0.3	-5.09	-6.76	-11.81
240	-1.38	-1.47	0.39	0.04	-1.09	0.89	2.49	3.12	1.31	0.9	-4.17	-6.32	-11.81
255	-1.5	-1.38	0.79	1.17	-0.96	0.73	1.99	3.29	1.61	0.41	-4.6	-5.3	-11.81
270	-1.47	-1.34	0.78	1.4	-0.04	2.24	2.06	3.44	1.17	-0.32	-4.47	-4.55	-11.81
285	-1.53	-1.35	0.2	1.16	0.91	3.35	3.33	2.65	0.21	-0.71	-3.92	-4.42	-11.81
300	-1.6	-1.4	-0.79	0.75	0.58	3.66	3.54	1.84	-0.96	-1.01	-3.79	-4.63	-11.81
315	-1.56	-1.54	-1.46	-0.15	-0.31	2.55	2.43	0.6	-2.5	-2.04	-3.39	-4.8	-11.81
330	-1.63	-1.72	-1.47	-1.03	-1.28	0.12	-0.13	-2.16	-3.68	-4.41	-3.65	-4.58	-11.81
345	-1.46	-1.97	-1.41	-1.27	-2.98	-2.14	-4.19	-4.67	-8.12	-4.56	-4.76	-4.52	-11.81

Ant4													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.07	-8.06	-3.78	-1.82	-4.03	-6.61	-2.56	-4.65	-8.98	-10.42	-9.96	-8.99	-12.89
15	-9.7	-7.62	-3.29	-0.8	-2.47	-3.66	-2.67	-2.51	-4.02	-6.35	-7.92	-6.5	-12.89
30	-9.44	-7.6	-3.67	-0.98	-1.97	-3.27	-1.75	-0.78	-2.26	-2.36	-6.24	-5.58	-12.89
45	-9.38	-8.02	-4.5	-2.23	-2.82	-1.06	-1.03	1.19	-0.09	-2.33	-6.98	-6.12	-12.89
60	-9.62	-8.61	-5.3	-3.77	-3.1	-0.22	1.82	2.01	0.36	-1.8	-10.33	-7.63	-12.89
75	-9.86	-8.98	-5.9	-5.74	-3.19	1.23	2.88	3.11	-0.49	-2	-13.36	-8.75	-12.89
90	-10.14	-9.08	-6.04	-7.09	-3.49	2.18	3.94	2.92	-0.67	-3.09	-11.66	-9.35	-12.89
105	-9.99	-8.76	-5.8	-6.41	-2.88	2.79	4.62	2.61	-0.89	-3.31	-8.95	-9.53	-12.89
120	-9.78	-7.94	-5.31	-5.22	-2.52	3	4.86	2.58	-1.15	-2.9	-6.95	-9.44	-12.89
135	-9.6	-7.02	-4.56	-4.85	-3.35	2.26	4.6	2.56	-0.72	-2.55	-5.62	-10.83	-12.89
150	-9.54	-6.05	-3.38	-3.94	-4.72	0.61	3.27	2.46	0.21	-2.12	-5.66	-12.89	-12.89
165	-9.77	-5.39	-2.33	-2.07	-4.81	-2.61	-0.08	2.27	0.31	-1.06	-6.36	-11.56	-12.89
180	-10.12	-5.05	-2.09	-1.26	-4.19	-5.33	-4.53	0.84	0.21	-0.53	-5.82	-8.77	-12.89
195	-10.31	-5.03	-2.53	-1.36	-3.03	-3.54	-8.53	-2.07	-0.32	-0.05	-4.66	-6.47	-12.89
210	-10.4	-5.25	-3.2	-3.11	-4.14	-4.44	-14.58	-3.63	-2.01	-0.12	-4.99	-4.5	-12.89
225	-10.45	-5.69	-4.13	-7.79	-9.32	-7.64	-10.7	-4.39	-3.57	-2.72	-4.12	-3.09	-12.89
240	-10.15	-6.31	-4.95	-8.26	-11.37	-9.7	-5.45	-3.25	-5.53	-5.58	-3.11	-2.25	-12.89
255	-10.07	-6.99	-5.1	-4	-5.78	-5.83	-4.53	-3.61	-8.08	-6.63	-3	-1.97	-12.89
270	-10.04	-7.53	-4.97	-1.89	-4.15	-3.54	-5.48	-7.13	-10.52	-5.01	-2.88	-2.27	-12.89
285	-10	-8.12	-5.58	-2.15	-5.23	-3.5	-7.01	-11.32	-10.03	-4.29	-2.81	-3	-12.89
300	-10.01	-8.78	-7.49	-4.56	-8	-4.05	-8.33	-12.75	-9.79	-4.49	-3.55	-4.3	-12.89
315	-10.18	-9.39	-9.61	-9.02	-8.6	-4.34	-6.56	-13.88	-9.13	-6.16	-6.21	-6.36	-12.89
330	-10.24	-9.42	-8.14	-9.13	-9.93	-4.35	-4.86	-8.34	-10.35	-8.45	-10.63	-9.19	-12.89
345	-10.17	-8.89	-5.33	-4.51	-7.12	-7.19	-4.33	-4	-9.58	-11.57	-13.11	-11.02	-12.89

Composite Gain													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.04	-5.8	-4.1	-3.34	-4.64	-2.05	-0.34	-1.66	-4.83	-5.48	-7.52	-7.28	-10.52
15	-6.09	-6.16	-4.57	-3.63	-4.49	-2.25	-1.15	-2.87	-5.08	-5.88	-7.82	-7.03	-10.52
30	-6.11	-6.63	-4.9	-3.68	-4.21	-1.96	-1.59	-3.01	-5.5	-4.66	-7.56	-6.73	-10.52
45	-6.04	-7.21	-5.07	-3.31	-3.82	-1.67	-1.39	-2.38	-3.92	-5.01	-7.81	-6.9	-10.52
60	-5.89	-7.84	-5.44	-2.82	-3.35	-1.27	-0.78	-1.61	-3.32	-4.54	-8.46	-7.64	-10.52
75	-5.71	-8.44	-6.17	-2.95	-3.04	-0.8	-0.1	-0.48	-3.07	-4.13	-9.32	-8.22	-10.52
90	-5.56	-8.88	-7.08	-3.85	-3.23	-0.44	1	-0.04	-2.31	-4.45	-9.72	-8.28	-10.52
105	-5.56	-8.91	-7.57	-5.24	-3.9	-0.04	1.69	0.05	-2.39	-4.65	-9.15	-8.13	-10.52
120	-5.57	-8.49	-7.35	-5.9	-4.83	-0.19	1.57	-0.12	-2.97	-4.92	-7.99	-8.16	-10.52
135	-5.6	-7.87	-6.44	-5.03	-5.28	-1.6	0.59	-0.36	-2.99	-5.28	-7.44	-8.28	-10.52
150	-5.61	-7.2	-5.18	-3.77	-5.02	-2.99	-1	-0.63	-2.7	-5.38	-7.76	-8.56	-10.52
165	-5.65	-6.59	-4.26	-2.95	-3.99	-3.27	-2.3	-1.18	-3.04	-4.82	-8.62	-8.73	-10.52
180	-5.62	-6.04	-3.99	-2.62	-3.6	-2.33	-2.53	-1.85	-2.9	-4.34	-8.26	-8.19	-10.52
195	-5.64	-5.63	-4.11	-2.87	-3.18	-1.42	-1.51	-1.49	-2.89	-2.94	-6.38	-6.77	-10.52
210	-5.68	-5.36	-4.05	-3.61	-3.5	-1.12	-0.57	-0.81	-2.58	-2.18	-5.95	-5.33	-10.52
225	-5.75	-5.23	-3.81	-4.15	-4.32	-1.14	-0.33	-0.51	-2.33	-2.35	-4.62	-4.35	-10.52
240	-5.87	-5.18	-3.42	-3.4	-4.44	-1.73	-0.65	-0.2	-2.13	-2.26	-3.82	-3.7	-10.52
255	-6.04	-5.21	-3.05	-2.06	-3.87	-1.67	-0.79	0.26	-1.91	-2.31	-3.96	-3.32	-10.52
270	-6.1	-5.17	-2.82	-1.16	-2.73	-0.55	-0.22	0.68	-1.79	-2.36	-4.01	-3.38	-10.52
285	-6.19	-5.13	-3	-0.85	-1.87	0.46	0.8	0.41	-2.47	-2.76	-3.82	-3.81	-10.52
300	-6.24	-5.1	-3.35	-1.25	-1.95	1.01	1.05	-0.23	-3.5	-3.54	-4.18	-4.53	-10.52
315	-6.21	-5.18	-3.56	-2.23	-2.3	0.39	0.75	-0.63	-4.39	-3.75	-4.95	-5.44	-10.52
330	-6.17	-5.33	-3.64	-2.74	-3.53	-0.45	0.19	-0.88	-3.89	-4.13	-5.64	-6.34	-10.52
345	-6.1	-5.55	-3.77	-2.97	-4.34	-1.39	-0.12	-0.74	-4.24	-4.35	-6.61	-7	-10.52

Ant1													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.35	-17.42	-7.58	-10.83	-6.45	1.63	3.18	3.86	1.15	0.87	-0.69	-2.99	-15.99
15	-5.3	-17.15	-7.44	-7.95	-12.36	-2.87	-1.02	2.15	-0.78	-0.14	-3.98	-2.22	-15.99
30	-5.36	-14.26	-7.48	-8.38	-12.4	-4.34	-4.06	-2.46	-3.49	-4.09	-5.9	-2.13	-15.99
45	-5.51	-11.72	-9.9	-5.77	-17.03	-8.91	-6.29	-6.71	-9.63	-9	-8.45	-3.05	-15.99
60	-5.49	-10.14	-12.12	-7.92	-12.44	-12.43	-14.04	-7.95	-8.78	-8.83	-8.39	-4.53	-15.99
75	-5.24	-8.81	-11.04	-8.61	-13.58	-15.25	-13.4	-12.07	-9.08	-9.66	-10.29	-4.82	-15.99
90	-5.41	-7.73	-7.94	-5.13	-8.29	-8.57	-9.2	-12.16	-9.94	-12.26	-17.21	-4.31	-15.99
105	-5.23	-6.91	-7.07	-3.77	-8.87	-7.4	-7.88	-9.39	-13.58	-9.21	-12.83	-4.79	-15.99
120	-5.12	-6.58	-8.03	-6.94	-11.36	-12.35	-9.04	-12.91	-14.96	-5.34	-15.04	-6.41	-15.99
135	-5.23	-6.84	-10.77	-13.09	-17.98	-10.66	-20.47	-19.72	-10.66	-5.54	-10.62	-12.62	-15.99
150	-5.41	-7.59	-11.63	-15.37	-8.96	-10.08	-8.43	-12.25	-13.69	-3.14	-4.91	-15.99	-15.99
165	-5.54	-7.99	-9.61	-14.48	-5.59	-12.37	-3.98	-12.66	-4.47	-0.87	-3.38	-11.06	-15.99
180	-5.3	-7.18	-6.3	-13.12	-6.79	-10.84	-5.6	-5.34	-2.07	-0.72	-3.11	-7.46	-15.99
195	-5.21	-6.39	-4.7	-10.84	-2.21	-7.04	-4.8	-5.04	-1.56	-0.14	-3.13	-5.51	-15.99
210	-4.85	-5.54	-3.25	-8.99	-1.72	-3.07	-3.55	-4.9	-0.02	1.76	-2.29	-3.02	-15.99
225	-4.94	-5.2	-1.99	-2.63	-3.68	0.25	-3.52	-4.59	-0.94	1.38	-2	-2.09	-15.99
240	-5	-5.02	-1.52	0.57	-7.81	0.55	1.36	0.6	-4.7	-4.28	-3.18	-2.92	-15.99
255	-5.28	-5.19	-1.61	1.55	-2.32	0.16	2.55	3.54	0.32	-2.39	1.09	-0.99	-15.99
270	-5.24	-5.72	-3.45	0.79	-0.83	2.44	4.57	3.09	0.5	-3.27	-1.18	0.7	-15.99
285	-5.28	-6.96	-9.56	-5.17	-3.6	3.17	6.8	5.09	-1.96	0.56	-2.78	1.2	-15.99
300	-5.07	-9.12	-13.35	-8.49	-2.4	3.99	6.4	6.39	-0.05	0.38	-4.65	0.59	-15.99
315	-5.2	-11.93	-7.71	-6.8	-1.72	5.04	7.25	6.65	2.45	1.25	-3.63	-0.66	-15.99
330	-5.07	-14.21	-6.5	-5.93	-1.1	4.89	7.84	6.59	3.78	2.72	-0.96	-2.08	-15.99
345	-5	-14.59	-6.84	-9.84	-2.52	3.79	5.97	5.45	3.39	2.67	-0.73	-3.48	-15.99

Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.86	-6.09	-6.11	-7.56	-3.03	-1.83	0.06	6.09	3.05	-0.93	-2.11	-2.78	-14.11
15	-4.81	-5.23	-6.22	-4.67	-5.21	-1.85	4.87	7.01	2.74	1.63	-0.43	-2.23	-14.11
30	-4.52	-4.72	-6.63	-3.44	-5.14	1.52	6.77	6.9	2.6	2.39	-0.35	-1.25	-14.11
45	-4.34	-4.68	-7.96	-2.73	-2.08	5.07	6.98	6.29	3.07	1.12	-1.18	-0.87	-14.11
60	-4.38	-4.86	-10.18	-4.11	-0.99	6.07	6.24	5.53	2.34	-2.71	-4.11	-1.19	-14.11
75	-4.6	-5.03	-9.05	-3.17	-1.99	5.68	5.21	4.63	1.72	-4.84	-5.82	-1.99	-14.11
90	-5.02	-5.24	-7.8	-2.57	-0.72	3.99	3.92	3.8	0.93	-5.19	-5.16	-3.6	-14.11
105	-5.35	-5.73	-9	-1.95	0.94	2.52	0.75	2.65	0.21	-3.07	-7.65	-4.75	-14.11
120	-5.39	-6.73	-11.69	-1.69	-2.17	-2.75	-0.35	1.44	0.24	-0.22	-10.19	-6.38	-14.11
135	-5.41	-7.83	-8.38	-0.93	-6.04	-0.79	1.14	-5.77	-4.75	-1.88	-5.7	-8.95	-14.11
150	-5.23	-8.68	-5.78	0.12	-6.61	0	-2.94	-14.12	-3.27	-2.65	-4.6	-11.95	-14.11
165	-5.17	-8.99	-6.11	-0.62	-8.62	-1.12	-10.08	-5.54	-2.48	-0.23	-6.77	-14.11	-14.11
180	-5.21	-8.31	-6.9	-2.63	-8.14	-6.12	-12.27	-11.76	-10.01	-5.99	-10.48	-12.35	-14.11
195	-5.3	-7.54	-9.4	-4.51	-7.57	-5.15	-5.75	-4.53	-2.38	-7.26	-7.19	-9.05	-14.11
210	-5.44	-7.84	-15.08	-4.28	-6.66	-4.36	-10.21	-6.33	-5.67	-5.05	-6.86	-6.29	-14.11
225	-5.44	-9.39	-12.45	-3.97	-9.5	-7.79	-6.37	-6.71	-11.09	-6.49	-8.66	-4.61	-14.11
240	-5.24	-11.2	-10.44	-4.15	-11.32	-7.44	-4.97	-13.41	-11.87	-5.7	-7.69	-3.7	-14.11
255	-5.19	-12.3	-11.06	-4.15	-13.53	-5.32	-8.65	-8.28	-12	-7.31	-8.23	-3.7	-14.11
270	-5.04	-13.5	-8.52	-3.81	-11.92	-7.95	-11.77	-18.52	-11.57	-11.74	-8.73	-4.06	-14.11
285	-4.77	-14.26	-7.45	-3.54	-7.16	-5.88	-9.3	-20.8	-8.4	-9.76	-8.09	-5.22	-14.11
300	-4.55	-13.13	-10.87	-5.38	-6.32	-3.33	-8.2	-6.26	-4.54	-10.34	-7.73	-5.24	-14.11
315	-4.37	-10.44	-11.03	-5.97	-5.91	-5.39	-8.68	-1.8	-3.07	-10.78	-6.6	-3.55	-14.11
330	-4.39	-8.43	-7.45	-3.19	-6.75	-8.77	-2.98	-1.95	-2.36	-5.47	-3.85	-2.77	-14.11
345	-4.61	-7.16	-6.79	-5.45	-4.07	-2.65	-3.39	3.32	1.03	-2.23	-2.89	-3.24	-14.11

Ant3													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.3	-3.88	-8.46	-3.13	-7.41	-9.74	-6.72	-3.43	-6.13	-2.99	-3.86	-7.35	-14.86
15	-6.41	-5.12	-9.02	-6.94	-9.19	-8.38	-10.74	-9.52	-7.36	-5.25	-5.79	-8.58	-14.86
30	-6.53	-6.68	-7.22	-6.87	-12.31	-10.37	-10.89	-13.44	-11.94	-6.23	-7.44	-9.58	-14.86
45	-6.47	-8.14	-6.14	-8.63	-15.57	-13.66	-12.42	-13.65	-13.06	-7.88	-5.99	-10.47	-14.86
60	-6.54	-9.27	-6.12	-9.89	-11.94	-11.87	-22.92	-14.15	-12.07	-9.89	-5.19	-11.4	-14.86
75	-6.55	-9.98	-8.94	-6.45	-12.32	-14.26	-22.73	-11.47	-15.81	-15.68	-9.45	-12.59	-14.86
90	-6.56	-9.44	-13.77	-9.42	-14.6	-14.02	-18.56	-13.72	-17.84	-9.78	-19.81	-13.86	-14.86
105	-6.52	-8.18	-8.99	-11.44	-11.17	-20.33	-12.31	-11.28	-14.88	-8.61	-14.28	-14.2	-14.86
120	-6.48	-7.52	-7.84	-11.82	-23.91	-8.47	-7.02	-7.76	-8.15	-7.95	-12.02	-14.08	-14.86
135	-6.32	-7.86	-10.04	-11.38	-16.54	-4.74	-5.33	-3.33	-4.34	-6.04	-9.56	-13.7	-14.86
150	-6.51	-8.55	-10.95	-8.6	-16.13	-3.47	-2.65	-0.04	-1.41	-5.56	-7.85	-14.86	-14.86
165	-6.9	-7.98	-8.89	-8.52	-5.8	-0.1	0.47	1.77	-0.13	-4.01	-6.81	-14.39	-14.86
180	-7.17	-6.75	-7.89	-10.35	-2.96	1.71	3.21	4.19	1.97	-0.72	-5.01	-12.35	-14.86
195	-6.82	-5.57	-5.66	-8.43	-0.01	3.42	5	6.66	3.58	0.47	-4.98	-12.36	-14.86
210	-6.58	-4.7	-3.5	-5.01	-0.28	5.74	7.19	7.41	3.43	0.6	-5.05	-12.62	-14.86
225	-6.3	-4.39	-2.84	-5.24	-1.75	6.17	7.9	7.1	2.68	-0.69	-6.14	-10.36	-14.86
240	-6.33	-4.34	-2.76	-5.31	-1.24	4.82	6.44	6.8	1.96	-2.88	-2.79	-6.77	-14.86
255	-6.59	-3.95	-3.81	-2.83	0.07	3.46	4.39	4.89	-0.64	-2.92	-3.15	-5.18	-14.86
270	-6.87	-3.27	-2.32	-0.52	-0.29	2.34	2.79	1.07	-2.66	-3.89	-4.28	-5.49	-14.86
285	-6.7	-2.58	-0.56	0.25	0.12	1.65	-0.28	2.31	0.63	-7.17	-5.52	-6.24	-14.86
300	-6.63	-2.22	-0.05	0.48	1.92	2.32	1.11	1.06	-2.89	-4.39	-5.42	-6.82	-14.86
315	-6.46	-2.16	-1.13	0.25	1.99	1.94	-0.02	-4.13	-3.99	-0.59	-5.24	-6.86	-14.86
330	-6.36	-2.35	-2.9	-0.12	-1.21	-0.44	-7.61	-5.42	-2.03	-0.92	-3.7	-6	-14.86
345	-6.26	-2.87	-5.64	-1.21	-6.17	-7.46	-9.8	-4.37	-2.95	-1.38	-2.64	-6.42	-14.86

Ant4													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.38	-5.97	-7.25	-6.95	-9.61	-6.95	-9.14	-10.73	-6.08	-7.73	-13.32	-13.41	-17.41
15	-5.54	-6.63	-8.65	-10.79	-6.39	-3.8	-5.05	-9.84	-4.2	-8.8	-15.86	-12.79	-17.41
30	-5.58	-7.21	-11.95	-6.08	-2.61	-0.72	-2.35	-21.96	-8.12	-9.15	-12.52	-12.47	-17.41
45	-5.62	-7.32	-9.92	-2.31	0.37	0.43	1.58	-6.56	-15.3	-13.62	-10.79	-13.25	-17.41
60	-5.68	-7.35	-6.23	-1.08	1.96	2.9	1.93	-0.51	-7.9	-7.83	-12.94	-15.39	-17.41
75	-5.53	-7.5	-4.69	-1.12	2.63	4.84	1.16	-0.21	-5.02	-4.57	-12.64	-16.23	-17.41
90	-5.43	-8.22	-5.53	-1.71	1.19	5.22	4.01	0.74	-2.99	-4.92	-13.29	-17.41	-17.41
105	-5.51	-8.79	-8.28	-4.1	-0.2	5.75	5.95	3.49	-1.79	-7.39	-14.06	-17.13	-17.41
120	-5.55	-9.14	-8.57	-4.8	0.12	6.29	7.23	4.7	-0.88	-6.33	-15.08	-15.49	-17.41
135	-5.53	-9.68	-6.89	-3.5	0.78	6	7.87	6.69	1.18	-3.5	-9.13	-10.36	-17.41
150	-5.4	-10.7	-6.14	-3.96	0.22	5.24	6.9	7.41	2.95	-0.75	-4.31	-8.18	-17.41
165	-5.28	-11.68	-6.43	-6.53	-2.77	4.03	5.46	6.68	4.38	0.93	-3.5	-7.36	-17.41
180	-5.29	-12.53	-7.21	-6.97	-5.53	1.58	5.04	6.18	4	0.09	-3.47	-6.15	-17.41
195	-5.28	-13.14	-7.55	-4.99	-4.11	-1.17	1.93	3.92	0.16	-3.03	-6.2	-5.91	-17.41
210	-5.17	-13.75	-8.93	-5.51	-4.52	-3.61	-2.71	-0.89	-3.22	-5.43	-11.25	-5.89	-17.41
225	-5.2	-14.52	-11.95	-6.9	-7.73	-5.74	-2.04	-2.38	-2.13	-4.39	-13.06	-5.94	-17.41
240	-5.09	-14.1	-15.51	-7.52	-7.21	-3.67	-4.26	-6.28	-3.41	-5.22	-11.15	-6.88	-17.41
255	-5.04	-12.92	-13.94	-8.01	-9.19	-7.04	-9.56	-10.13	-5.49	-8	-17	-6.33	-17.41
270	-5.24	-11.28	-12.89	-7.08	-9.67	-7.7	-12.88	-12.86	-7.5	-9.83	-15.05	-5.82	-17.41
285	-5.3	-9.76	-12.59	-6.77	-7.44	-6.62	-11.55	-11.4	-10.23	-12.35	-15.64	-6.02	-17.41
300	-5.19	-8.24	-13.45	-8.36	-6.9	-8.78	-6.56	-14.57	-13.87	-9.1	-20.22	-6.57	-17.41
315	-5.28	-6.68	-13.29	-7.42	-8.08	-10.55	-7.91	-7.12	-14.44	-7.76	-15.77	-7.89	-17.41
330	-5.35	-5.83	-11.01	-6.51	-15.14	-15.64	-15.79	-15.87	-8.14	-12.97	-13.72	-10.77	-17.41
345	-5.28	-5.65	-8.08	-4.86	-19.53	-10.4	-17.21	-10.39	-6.1	-8.88	-12.5	-15.05	-17.41

Composite Gain													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.44	-6.35	-7.27	-6.26	-5.96	-2.18	-0.67	2.45	-0.21	-1.71	-3.17	-5.02	-15.42
15	-5.48	-6.76	-7.69	-7.06	-7.51	-3.64	0.27	2.35	-0.86	-1.47	-3.99	-4.59	-15.42
30	-5.44	-7.1	-7.9	-5.81	-6.15	-1.66	1.62	1.4	-2.07	-2.07	-4.51	-4.18	-15.42
45	-5.42	-7.29	-8.19	-4.19	-3.58	0.5	2.25	0.73	-2.57	-3.91	-5.09	-4.4	-15.42
60	-5.45	-7.41	-7.96	-4.46	-2.06	1.85	1.62	0.66	-2.86	-6.32	-6.54	-5.18	-15.42
75	-5.42	-7.42	-7.76	-3.93	-1.93	2.31	0.68	-0.01	-3.12	-6.92	-8.83	-5.85	-15.42
90	-5.57	-7.37	-7.9	-3.85	-2.32	1.77	1.07	-0.35	-3.33	-7.05	-10.21	-6.64	-15.42
105	-5.62	-7.24	-8.26	-4.21	-2.21	1.57	1.26	0.28	-3.5	-6.32	-11.24	-7.42	-15.42
120	-5.61	-7.38	-8.79	-4.96	-3.69	0.96	2.13	0.57	-2.89	-3.88	-12.58	-8.81	-15.42
135	-5.6	-7.94	-8.76	-4.64	-4.31	1.17	2.86	1.31	-2.8	-3.92	-8.32	-11.01	-15.42
150	-5.61	-8.74	-7.85	-3.99	-4.49	0.87	1.83	2.17	-0.96	-2.7	-5.21	-11.65	-15.42
165	-5.67	-8.93	-7.5	-5	-5.21	0.35	1.08	2.1	0.64	-0.7	-4.8	-10.74	-15.42
180	-5.67	-8.19	-7.04	-6.54	-5.42	-0.9	1.48	2.51	0.8	-1.3	-4.74	-8.71	-15.42
195	-5.6	-7.38	-6.47	-6.49	-2.67	-0.62	1.24	2.88	0.6	-1.6	-5.1	-7.45	-15.42
210	-5.46	-6.86	-5.69	-5.62	-2.64	1.01	1.98	2.35	-0.06	-0.91	-5.29	-5.82	-15.42
225	-5.44	-6.9	-4.97	-4.41	-4.63	1.49	2.71	1.95	-0.77	-1.53	-5.77	-4.85	-15.42
240	-5.38	-7	-4.71	-3.02	-5.3	0.77	2.09	1.91	-2.16	-4.38	-5.04	-4.71	-15.42
255	-5.48	-6.91	-5.14	-2.05	-3.55	-0.28	0.79	1.45	-2.43	-4.46	-3.14	-3.57	-15.42
270	-5.54	-6.69	-5.12	-1.71	-3.16	-0.23	0.87	-0.73	-3.21	-5.81	-4.88	-2.77	-15.42
285	-5.46	-6.49	-5.14	-2.98	-3.38	0.01	1.7	0.98	-2.94	-4.28	-6.06	-2.78	-15.42
300	-5.29	-6.38	-5.37	-3.73	-1.92	0.8	1.78	1.69	-3.24	-3.79	-6.95	-3.3	-15.42
315	-5.27	-6.12	-5.74	-3.71	-1.76	1.08	2.18	1.66	-1.73	-2.12	-6.12	-3.8	-15.42
330	-5.24	-5.91	-6.04	-3.16	-3.53	0.16	2.29	1.39	-0.28	-1.23	-3.76	-4.31	-15.42
345	-5.25	-5.95	-6.75	-4.34	-5.21	-0.96	0.55	1.84	0.21	-0.83	-3.1	-5.29	-15.42