

EXHIBIT AA ELECTRIC TRANSMISSION LINE

OAR 345-021-0010(1)(aa)

OAR 345-024-0090(1),(2)

TABLE OF CONTENTS

	Page
AA.1 INTRODUCTION.....	AA-1
AA.2 ELECTRIC AND MAGNETIC FIELDS.....	AA-1
AA.2.1 Distance from Transmission Line Centerline to Edge of Right-of-Way.....	AA-1
AA.2.2 Types of Occupied Structures within 200 Feet of Transmission Line Centerline	AA-1
AA.2.3 Graphs of Electric and Magnetic Field Levels	AA-2
AA.2.3.1 Overview of EMFs Produced by Transmission Lines	AA-2
AA.2.3.2 EMF Calculations for 500-kV Overhead Transmission Line.....	AA-3
AA.2.3.3 Overview of Corona Effects Produced by Transmission Lines.....	AA-4
AA.2.3.4 Corona Audible Noise Calculations for 500-kV Overhead Transmission Line	AA-5
AA.2.3.5 Corona Radio Interference Calculations for 500-kV Overhead Transmission Line	AA-6
AA.2.3.6 Measures Proposed to Reduce EMF Levels.....	AA-7
AA.2.3.7 Assumptions and Methods Used in EMF Analyses.....	AA-7
AA.2.3.8 Monitoring Program	AA-7
AA.3 ALTERNATING CURRENT ELECTRIC FIELDS.....	AA-7
AA.4 INDUCED VOLTAGE AND CURRENT	AA-7
AA.4.1 Induced Voltage	AA-8
AA.4.2 Electromagnetic Induction.....	AA-8
AA.5 RADIO INTERFERENCE.....	AA-8
AA.6 SUMMARY.....	AA-9
AA.7 REFERENCES.....	AA-9

TABLES

AA-1 Electric and Magnetic Field Modeling Results for the 500-kV Overhead Transmission Line	AA-4
AA-2 Calculated Corona Audible Noise Values for the 500-kV Overhead Transmission Line	AA-5
AA-3 Calculated Corona Radio Interference Values for the 500-kV Overhead Transmission Line	AA-6

FIGURES

AA-1 Electric Field Profile for 500-kV Single-Circuit, Monopole Support Structure	
AA-2 Magnetic Field Profile for 500-kV Single-Circuit, Monopole Support Structure	
AA-3 Audible Noise Profile for 500-kV Single-Circuit, Monopole Support Structure	
AA-4 Radio Interference Profile for 500-kV Single-Circuit, Monopole Support Structure	

ATTACHMENT

AA-1 Results of the SESEnviroPlus Program	
---	--

AA.1 INTRODUCTION

Archway Solar Energy LLC (Applicant) proposes to construct the Archway Solar Energy Facility (Facility) in Lake County, Oregon, with generating capacity of up to 400 megawatts (MW). The Facility may also contain a battery energy component with storage capacity of up to 400 MW and discharge capacity of up to 1,600 megawatt-hours. This Exhibit presents an analysis of the Facility electric transmission line, as required by OAR 345-021-0010(1)(aa).

OAR 345-021-0010(1)(aa) *If the proposed energy facility is a transmission line or has, as a related or supporting facility, a transmission line of any size:*

Response: The Facility will consist of approximately 400 MW of nominal and average electric generating capacity with an associated 4-mile-long, single-circuit, 500-kilovolt (kV) overhead transmission line. The Facility's projected maximum capacity of 400 MW is used in this Exhibit to calculate electric and magnetic fields (EMFs). The 500-kV transmission line will be installed from a new, proposed Facility substation to the point of interconnection with the existing electrical grid.

Collection cables will be located completely within the Facility. The cables will be underground and will not be accessible to the public. As such, these lines are not subject to the 9-kilovolt per meter (kV/m) standard found within OAR 345-024-0090 and modeling of the collection cables is not required to demonstrate compliance with the standard.

AA.2 ELECTRIC AND MAGNETIC FIELDS

OAR 345-021-0010(1)(aa)(A) *Information about the expected electric and magnetic fields (EMFs), including:*

AA.2.1 Distance from Transmission Line Centerline to Edge of Right-of-Way

- (i) *The distance in feet from the proposed center line of each proposed transmission line to the edge of the right-of-way.*

Response: The right-of-way (ROW) will be 125 feet wide in each direction from the centerline of the proposed transmission line for a total of 250 feet in width.

AA.2.2 Types of Occupied Structures within 200 Feet of Transmission Line Centerline

- (ii) *The type of each occupied structure, including but not limited to residences, commercial establishments, industrial facilities, schools, daycare centers and hospitals, within 200 feet on each side of the proposed center line of each proposed transmission line.*
- (iii) *The approximate distance in feet from the proposed center line to each structure identified in (A).*

Response: The closest occupied structure to the proposed transmission line centerline is a residence that is more than 1.2 miles from the centerline. There are no occupied structures within 200 feet on each side of the centerline of the proposed transmission line.

AA.2.3 Graphs of Electric and Magnetic Field Levels

- (iv) *At representative locations along each proposed transmission line, a graph of the predicted electric and magnetic fields levels from the proposed center line to 200 feet on each side of the proposed center line.*

Response:**AA.2.3.1 Overview of EMFs Produced by Transmission Lines**

All electric utility wires and devices generate alternating Electric and Magnetic Fields (EMF). The earth itself generates static EMF. The EMF produced by the alternating current (AC) electrical power system in the United States has a frequency of 60 hertz (Hz), meaning that the fields change from positive to negative and back to positive, 60 times per second.

In AC power systems, voltage swings from positive to negative and back to positive, a 360-degree cycle, 60 times every second. Current follows the voltage, flowing forward, reversing direction, and returning to the forward direction, again a 360-degree cycle, 60 times every second. Each AC three-phase circuit carries power over three conductors. One phase of the circuit is carried by each of the three conductors. The AC voltage and current in each phase conductor is out of sync with the other two phases by 120 degrees, or one-third of the 360-degree cycle. The fields from these conductors tend to cancel out because of the phase difference. However, when a person stands under a transmission line or over a buried circuit of underground lines, one conductor is always significantly closer and will most likely contribute a net uncanceled field at the person's location, assuming the three-phase currents are equal.

Electric Fields

Electric fields around transmission lines are produced by electrical charges, measured as voltage, on the energized conductor. Electric field strength is directly proportional to the line's voltage; that is, increased voltage produces a stronger electric field. The electric field is inversely proportional to the distance a sensor is positioned from the conductors, so the electric field strength decreases as the distance from the conductor increases. For the proposed Facility's transmission line, the voltage and electric field alternate at a frequency of 60 Hz. The strength of the electric field is measured in units of kV/m. The voltage, and therefore the electric field, around a transmission line remains practically steady and is not affected by the common daily and seasonal fluctuations in usage of electricity by customers.

Magnetic Fields

Magnetic fields around transmission lines are produced by the amount of current flow through the conductors between generators and loads, measured in terms of amperage. Like the electric field, the magnetic field alternates at a frequency of 60 Hz. The magnetic field strength is directly proportional to the amperage; that is, increased power flow results in increased amperage, which produces a stronger magnetic field. The magnetic field is inversely proportional to the sensor's distance from the conductors. Also, like the electric field, the magnetic field strength decreases as the distance from the conductor increases. Magnetic fields are expressed in units of milligauss (mG). However, unlike voltage, the amperage and therefore the magnetic field around a transmission line fluctuate hourly and daily as the amount of current flow varies. The strength of the magnetic field depends on the current in the conductor, the geometry of the construction, the degree of cancellation from other conductors, and the distance from the conductors or cables.

AA.2.3.2 EMF Calculations for 500-kV Overhead Transmission Line

The route that is being examined by the Applicant for connecting the Facility's collection substation to the point of interconnection substation uses a typical H-frame overhead structural configuration. The 250-foot ROW overall width is the same for the entire 4-mile length, and a single route is proposed by the Applicant. A single model was therefore used for the EMF calculations.

Line Loads for EMF Calculation

The EMF in the vicinity of the transmission line varies with regard to the line design, line loading, distance from the line, and other factors. It will be sensitive to any assumptions made with respect to these parameters at the concept stage of the transmission line design. Conservative maximum operating voltage and current values have therefore been used to determine the worst case EMF in the vicinity of the transmission line. The electric field depends on the line voltage, which remains nearly constant for a transmission line in normal operation. The maximum permissible operating voltage for the transmission line is 10 percent above the nominal 500-kV voltage rating and has been used in the EMF calculations (i.e., 550 kV). The magnetic field is proportional to line loading (amperage), which varies as power generation is changed by the intensity of the Facility. Maximum magnetic fields are produced at the maximum (peak) conductor currents. The conductor currents used in the EMF calculations are based on the 400 MW maximum capacity rating of the solar energy facility.

The 500-kV transmission line proposed in this study is rated for a nominal voltage of 500 kV, measured phase to phase. The peak line loading value assumed for the single overhead circuit is 462 amperes per phase conductor bundle based on the 400-MW maximum generating capacity of the energy facility. Each phase comprises three 1,272 thousand circular-mil aluminum-conductor-steel-reinforced "Bittern" wires in a bundle. Each wire has a diameter of 1.345 inches and is spaced 18 inches apart in the bundle. The phase conductor bundles are spaced 35 feet apart in a horizontal arrangement. Two ground wires were modeled above the phase conductor bundles as single conductors constructed of extra high strength steel, "1/2EHS," each with a diameter of 0.5 inch.

Calculation Methods

The calculation methods used for the analysis are provided in Chapter 7 of the *Transmission Line Reference Book, 200-kV and Above* (EPRI 2005).

The software program used to model the transmission line is SESEnviroPlus (Version 17.1). It is an Electromagnetic Environmental Impact Assessment analysis tool developed by Safe Engineering Services & Technologies Ltd.

The EMF and corona effects were calculated in the SESEnviroPlus program. The methodology developed by Bonneville Power Administration (BPA) was selected in the program for the corona effects calculations. Measurements of corona effects from many operating transmission lines, with line voltages of 230 kV and above, were used by BPA to develop empirical equations. These published equations were programmed into the SESEnviroPlus program to predict the corona effects from transmission lines. The inputs and outputs (results) of the SESEnviroPlus program are provided in Attachment AA-1.

To estimate the maximum EMF, the calculations in the model are performed at midspan where the conductors have sagged to their lowest point between the supporting structures (i.e., the estimated maximum sag point, or minimum ground clearance). The calculated minimum ground clearance for a nominal 1,000-foot-span length is 44.52 feet. The EMF is computed at a height of 3.3 feet (1 meter) above the ground at the midspan locations along the proposed transmission line route for maximum 400-MW generation at the Facility. The actual EMF values along the transmission line will vary, depending on the position of the receptor, as load varies hourly, daily, seasonally, and as conductor sag changes with ambient temperature. The levels shown therefore represent the highest EMF expected for the proposed transmission line. Average EMF levels along the line and over a period of 1 year will be considerably less than the peak calculated values.

Results of 500-kV Overhead EMF Calculations

As stated previously in this Section, a single route is proposed by the Applicant and was represented in a single model. Table AA-1 presents the calculated maximum values of the EMF at the ROW edges and the maximum calculated values within the ROW.

Table AA-1. Electric and Magnetic Field Modeling Results for the 500-kV Overhead Transmission Line

	Left/West ROW Edge (125 ft)	Maximum Calculated Field	Right/East ROW Edge (50 ft)
Electric Field (kV/m)	1.13	6.47	1.13
Magnetic Field (mG)	11.4	70.0	11.4

The maximum calculated magnetic field shown in Table AA-1 occurs at the center of the proposed 500-kV overhead transmission line’s easement. The maximum calculated electric field shown in Table AA-1 occurs approximately 42 feet to the left and right (west and east) of the centerline. To comply with the 9 kV/m electric field limit, the phase conductors must be at least 37 feet above ground level. As stated previously in this Section, the calculated minimum ground clearance for a nominal 1000 feet span length, is 44.52 feet.

The results are plotted on the graphs shown in Figures AA-1 and AA-2.

AA.2.3.3 Overview of Corona Effects Produced by Transmission Lines

Corona is the electrical ionization of the air that occurs near the surface of the energized conductor and suspension hardware because of very high electric field strength at the energized conductor surfaces.

Corona along the transmission line will produce audible noise. It also generates electromagnetic noise in the frequency bands used for radio broadcast signals. Corona noise also used to interfere with broadcast television signals on Channels 2 to 6. However, the introduction of digital television technology, with much higher broadcast frequencies for all channels, has mitigated the TV interference risk.

The amount of corona produced by an overhead transmission line is a function of the voltage of the line, the diameter of the conductors, the locations of the conductors in relation to each other, the condition of the conductors and hardware, and the local weather conditions. Power flow does not affect the amount of corona produced by a transmission line.

Corona also increases at higher elevations, where the atmosphere is less dense than at sea level. The proposed 500-kV transmission line was modeled at an elevation of 4,320 feet (1,317 meters) above sea level.

Raindrops, snow, ice, fog, hoarfrost, and condensation that accumulate on the conductor surfaces are sources of surface irregularities that can increase corona. During fair weather, the presence of water droplets or ice crystals is unlikely or limited and the corona effect is therefore small. Insects and dust can increase corona activity during fair weather. However, during wet weather, the number of these sources on the conductors increases significantly (such as when raindrops form on the conductor) and corona effects therefore also increase significantly. During wet or foul weather conditions, the conductor will produce the greatest amount of audible noise and radio interference.

AA.2.3.4 Corona Audible Noise Calculations for 500-kV Overhead Transmission Line

The data needed to model audible noise consist of the same information needed to model EMF (voltage, number of circuits, and geometry of the conductors and the transmission structure itself) as well as the elevation and weather along the line. Audible noise from the transmission line does not vary with the amount of current flow.

Calculation Methods

The audible noise from the proposed transmission line was predicted using SESEnviroPlus, the same program used for the EMF analysis, and the BPA empirical calculation method. The results are provided in Attachment AA-1.

The audible noise levels are computed for a height of 3.3 feet (1 meter) above the ground along the proposed transmission line route.

Results of 500-kV Overhead Corona Noise Calculations

As stated in Section AA.2.3.2, a single route is proposed by the Applicant and was accounted for in a single model. Table AA-2 presents the calculated maximum values of the audible noise on an A-weighted scale (dBA) at the ROW edges and the maximum calculated value within the ROW for average fair weather (L_{50dry}), average wet weather (L_{50wet}) and heavy rain (L_{5wet}). The results are plotted on the graph shown in Figure AA-3. The assessment of compliance with the allowable statistical noise levels for new industrial and commercial noise sources is documented in Exhibit X of the Application for Site Certificate.

Table AA-2. Calculated Corona Audible Noise Values for the 500-kV Overhead Transmission Line

Weather Conditions	Left/West ROW Edge (125 ft) (dBA)	Maximum (dBA)	Right/East ROW Edge (125 ft) (dBA)
Fair Weather	25.3	29.5	25.3
Wet Weather (Average Rain)	50.3	54.5	50.3
Wet Weather (Heavy Rain)	53.8	58.0	53.8

AA.2.3.5 Corona Radio Interference Calculations for 500-kV Overhead Transmission Line

The data needed to model radio interference consist of the same information needed to model audible noise, as described in the previous section. Radio interference from the transmission line does not vary with the amount of current flow.

Calculation Methods

The radio interference from the proposed transmission line was predicted using SESEnviroPlus, the same program used for the EMF analysis, and the BPA empirical calculation method. The results are provided in Attachment AA-1.

The radio interference levels are computed for a height of 9.9 feet (3 meter) above the ground along the proposed transmission line route.

Results of 500-kV Overhead Corona Noise Calculations

As stated in Section AA.2.3.2, a single route is proposed by the Applicant and was accounted for in a single model. Table AA-3 presents the calculated maximum values of the radio interference on a decibel scale (dB μ V/m) at the ROW edges and the maximum calculated value within the ROW for average fair weather (L_{50dry}), average wet weather (L_{50wet}) and heavy rain (L_{5wet}). The results are plotted on the graph shown in Figure AA-4.

Table AA-3. Calculated Corona Radio Interference Values for the 500-kV Overhead Transmission Line

Weather Conditions	Left/West ROW Edge (125 ft) (dB μ V/m)	Maximum (dB μ V/m)	Right/East ROW Edge (125 ft) (dB μ V/m)
Fair Weather	45.8	62.2	45.8
Wet Weather (Average Rain)	67.3	83.7	67.3
Wet Weather (Heavy Rain)	70.8	87.2	70.8

The OAR does not define radio interference limits. Radio interference from power transmission systems is governed in the United States by the Federal Communications Commission (FCC) Rules and Regulations presently in existence (Federal Communications Commission 1988). A power transmission system falls into the FCC category of an "incidental radiation device," which is defined as "a device that radiates radio frequency energy during the course of its operation although the device is not intentionally designed to generate radio frequency energy." Such a device "shall be operated so that the radio frequency energy that is emitted does not cause harmful interference. In the event that harmful interference is caused, the operator of the device shall promptly take steps to eliminate the harmful interference." For purposes of these regulations, harmful interference is defined as: "any emission, radiation or induction which endangers the functioning of a radio navigation service or of other safety services or seriously degrades, obstructs or repeatedly interrupts a radio communication service operating in accordance with this chapter" (Federal Communications Commission 1988).

Radio reception in the AM broadcast band, 535 to 1605 kilohertz (kHz), is most often affected by corona-generated interference. FM radio reception is rarely affected by corona-generated interference. The IEEE *Radio Noise Design Guide for High Voltage Transmission Lines* identifies an acceptable limit of fair-weather radio interference of about 40 dB μ V/m at 1 MHz, 100 feet from the outer conductor bundle (IEEE 1971). The calculated fair-weather corona-generated

radio interference levels from the transmission line are below this recommended level at a distance of 135 feet from the transmission line centerline.

AA.2.3.6 Measures Proposed to Reduce EMF Levels

(v) *Any measures the applicant proposes to reduce electric or magnetic field levels.*

Response: The design's minimum ground clearance along the transmission line exceeds the minimum value specified in the National Electrical Safety Code (IEEE C2-2017). This higher value of minimum ground clearance will reduce the maximum electric and magnetic field levels along the line.

AA.2.3.7 Assumptions and Methods Used in EMF Analyses

(vi) *The assumptions and methods used in the electric and magnetic field analysis, including the current in amperes on each proposed transmission line.*

Response: Refer to Section AA.2.3.2 for a detailed description of the calculation methods and assumptions used in the EMF analyses. Attachment AA-1 shows the data inputs and assumptions used in the SESEnviroPlus (Version 17.1) program.

AA.2.3.8 Monitoring Program

(vii) *The applicant's proposed monitoring program, if any, for actual electric and magnetic field levels.*

Response: The Applicant is not proposing to conduct a post-construction monitoring program for EMFs.

AA.3 ALTERNATING CURRENT ELECTRIC FIELDS

OAR 345-024-0090 *To issue a site certificate for a facility that includes any transmission line under Council jurisdiction, the Council must find that the applicant:*

(1) *Can design, construct and operate the proposed transmission line so that alternating current electric fields do not exceed 9 kV per meter at one meter above the ground surface in areas accessible to the public;*

Response: The electric fields calculated for the proposed 500-kV single-circuit transmission line do not exceed 9 kV per meter for the transmission line design. Figure AA-1 demonstrates that the maximum electric field modeled is less than 6.5 kV per meter, which is approximately 72 percent of the 9 kV-per-meter standard set forth in OAR 345-024-0090(1). It has further been determined in the EMF analysis that the electric field under the line will not exceed the 9-kV/m limit for a minimum ground clearance of at least 37 feet along the line.

AA.4 INDUCED VOLTAGE AND CURRENT

OAR 345-024-0090 *To issue a site certificate for a facility that includes any transmission line under Council jurisdiction, the Council must find that the applicant:*

(2) *Can design, construct and operate the proposed transmission line so that induced currents resulting from the transmission line and related or supporting facilities will be as low as reasonably achievable.*

Response: The Applicant has designed the transmission line so that induced currents will be as low as reasonably achievable. Below is an analysis of the risk of induced currents from the proposed overhead line.

AA.4.1 Induced Voltage

Voltage is the electrical pressure that pushes current through a conducting wire or object. An object such as a bird, person, vehicle, above-ground pipeline, or barbed-wire fence that is insulated from ground and in the electric field adjacent to the transmission line conductors will have a voltage induced on it by the electric field. This induced voltage does not create induced body currents in a bird flying through the electric field because the bird is not in contact with the ground and there is no conducting path for current to flow. Voltages induced on objects adjacent to the transmission line that are insulated from ground will only be a hazard if the object is shorted to ground, creating a path for induced current to flow. The capacitive coupling between the overhead conductor and the object will determine the upper limit of the current that can flow when the object is shorted to ground.

A common induced current hazard occurs on wire fences that parallel overhead transmission lines. If the wires are insulated from the ground, the electric field of the transmission line will induce a voltage on the wires. A person touching the insulated fence wire becomes a conducting path for the current to flow to ground if any part of their body makes contact with the ground or a grounded object. The person may then perceive a momentary shock. The AC electrostatic voltage on the fence wire is very quickly discharged through the person's body without harm but the discharge may be perceived as annoying. This hazard is easily mitigated by bonding the fence wires along the length of the fence to metal fence posts or grounding rods that are driven into the soil.

AA.4.2 Electromagnetic Induction

The magnetic field that is associated with current flow along the transmission line conductors will induce a current in a closed loop that is intercepted by the magnetic flux lines. If a long metal structure parallels the line and is insulated from ground, such as a buried metal pipeline with protective coating or a metal wire fence with wooden posts, the capacitance between the metal structure and the ground will form a part of the induction loop and will result in an induced voltage on the structure that is proportional to the parallel length. That means that structures that are close to the ground but insulated from it and parallel the transmission line for a considerable length may have a dangerous power frequency voltage induced on it. The induced voltage is not easily dissipated when a person makes contact with the structure and the person may not be able to let go of the structure. For insulated fence wires, regularly grounding the wires to metal fence posts or grounding rods that are driven into the soil will reduce the voltage on the metal structure and mitigate the safety risk.

Where possible, sufficient distance will be maintained between insulated metal structures and the proposed transmission line to avoid induced current hazards. Any metal fences that parallel and are close to the transmission line will be grounded to prevent dangerous induced voltages on the structures.

AA.5 RADIO INTERFERENCE

OAR 345-021-0010(1)(aa)(B) *An evaluation of alternate methods and costs of reducing radio interference likely to be caused by the transmission line in the primary reception area near interstate, U.S. and state highways.*

Response: As discussed in Section AA.2.3.3, overhead transmission lines generate radio interference from the corona discharges that occur during wet weather as a result of raindrops on the conductors or, to a lesser degree, in dry weather as a result of dust, insects, or sharp points on the conductors or suspension hardware.

The bundle of three 1.34-inch-diameter conductors used in the proposed 500-kV transmission line design will mitigate corona-generated radio interference issues.

The closest interstate, U.S. or state highway to the proposed 500-kV transmission line is the Christmas Valley Highway, which is more than 2.7 miles from the line. As demonstrated in Section AA.2.3.5, the corona-generated radio interference from the transmission line is below recommended limits at more than 135 feet from the centerline of the transmission line and will be negligible at the primary reception area near the state highway.

Loose hardware on distribution lines and wood-pole transmission lines are a more common source of radio interference than the corona-generated noise from transmission line conductors and unlike corona noise, occurs primarily in fair-weather conditions. The proposed transmission line will be constructed with modern, tested hardware and steel poles that eliminate the gap-type noise issues.

AA.6 SUMMARY

Based on the information detailed in this Exhibit, the Applicant has satisfied the requirement of OAR 345-021-0010(1)(aa), and the Council may find that the standards contained in OAR 345-024-0090 have been satisfied.

AA.7 REFERENCES

Electric Power Research Institute (EPRI). 2005. *Transmission Line Reference Book, 200-kV and Above*. Third Edition.

Federal Communications Commission. 1988. Volume II, Part 15. *47 Code of Federal Regulations*, Chapter 1.

Institute of Electrical and Electronics Engineers (IEEE). 1971. Radio Noise Design Guide for High Voltage Transmission Lines. IEEE Committee Report, IEEE Transactions on Power Apparatus and Systems, PAS-90, No. 2, pp. 833–842, March/April.

Figures

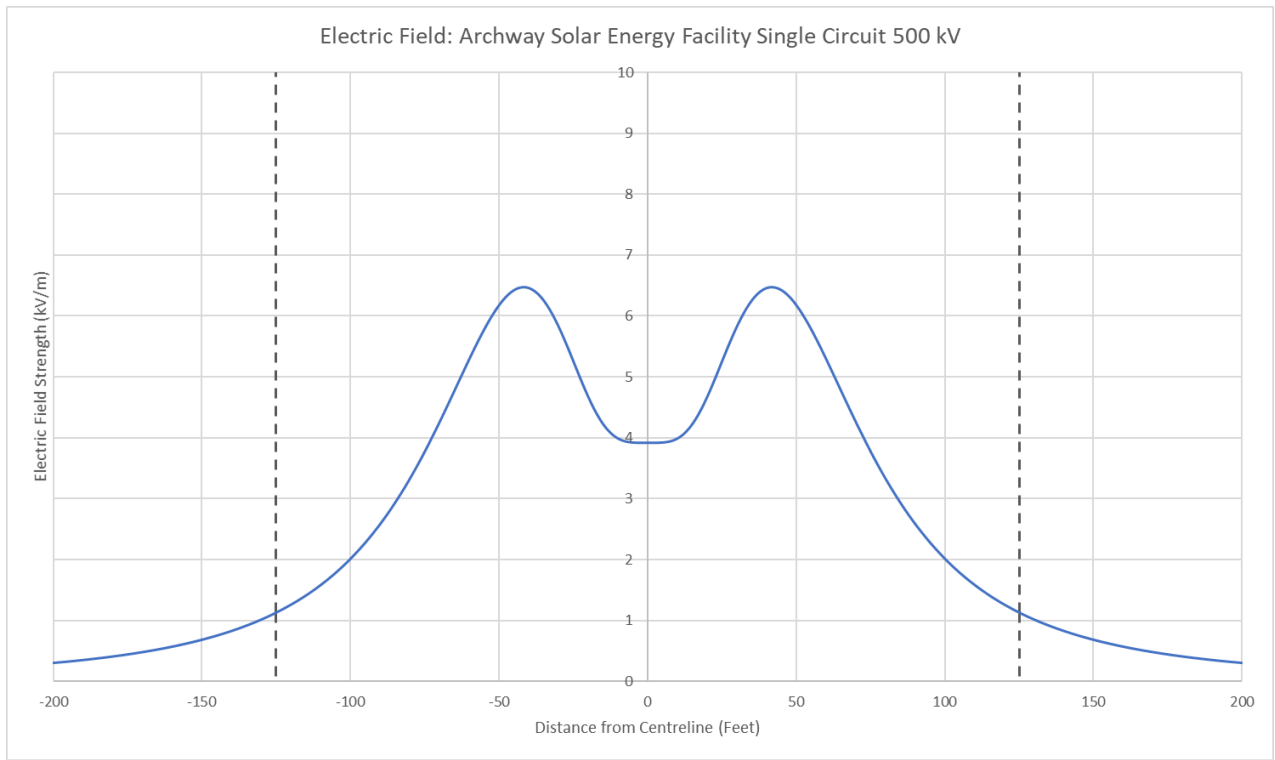


Figure AA-1. Electric Field Profile for 500-kV Single-Circuit, Monopole Support Structure

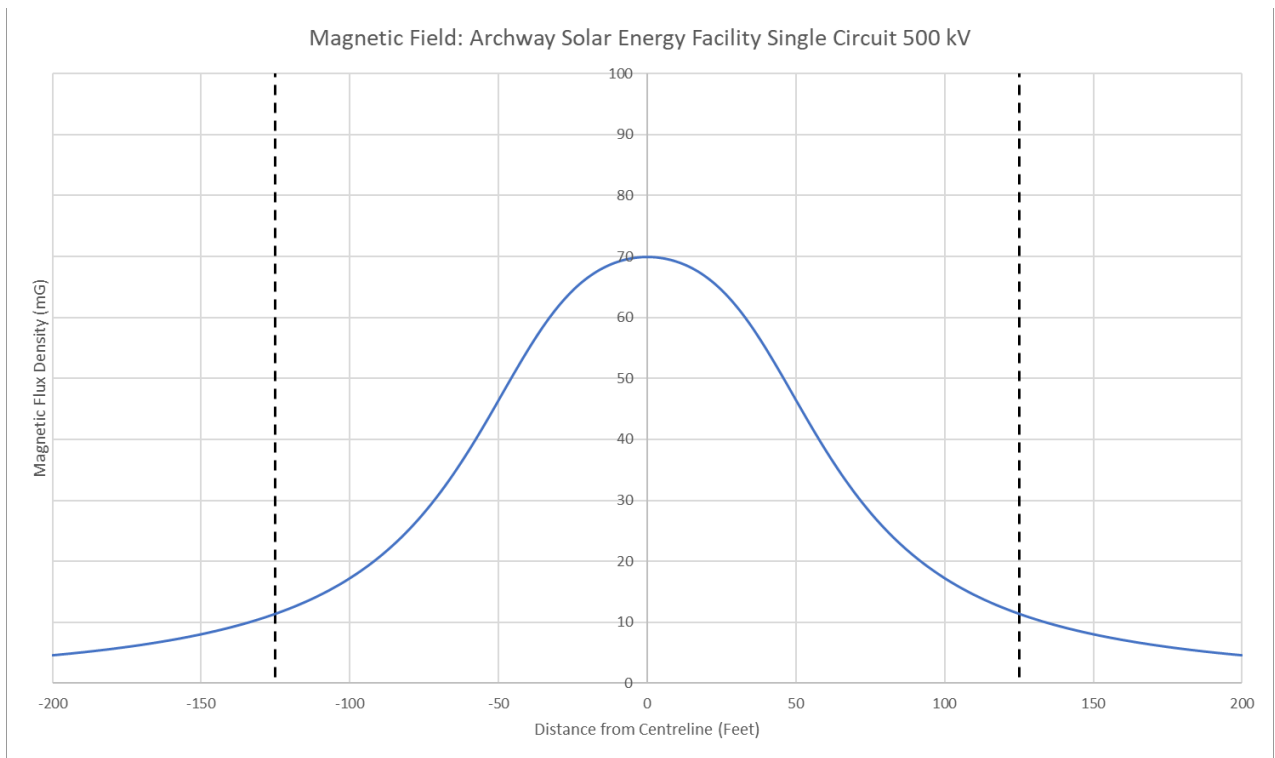


Figure AA-2. Magnetic Field Profile for 500-kV Single-Circuit, Monopole Support Structure

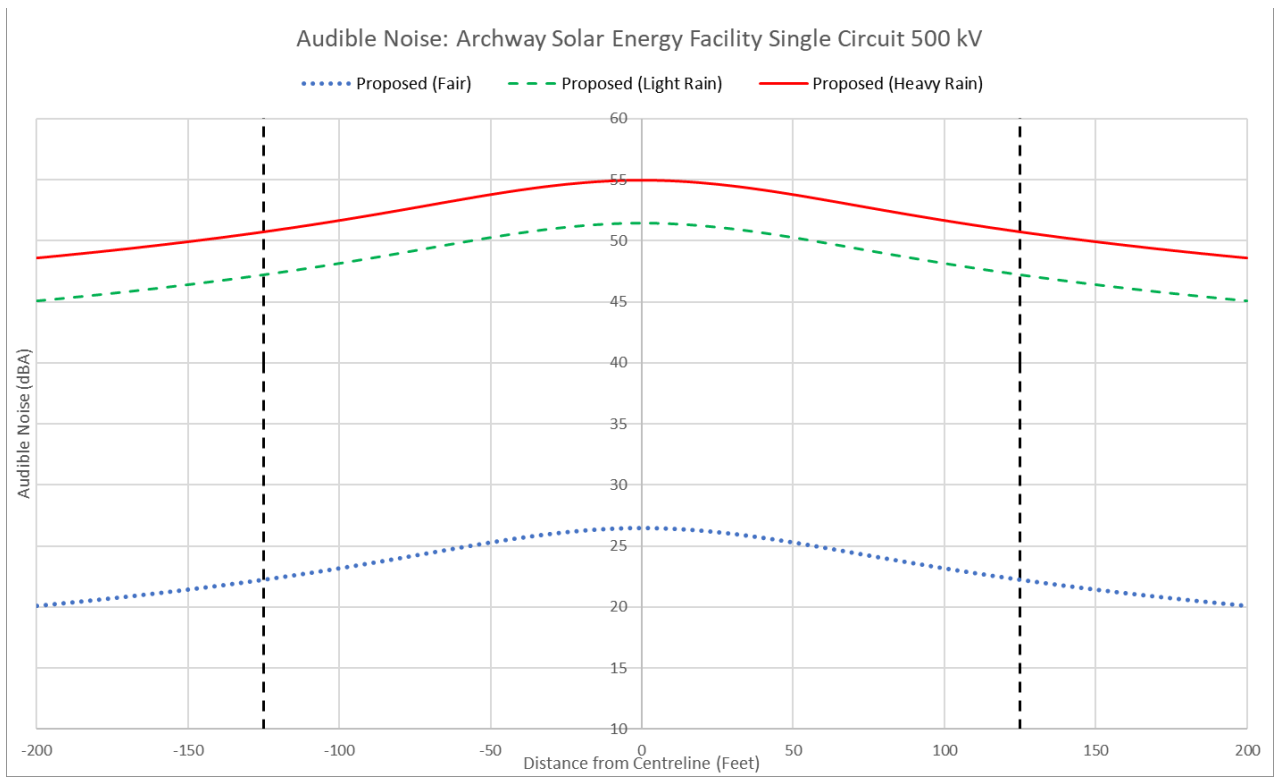


Figure AA-3. Audible Noise Profile for 500-kV Single-Circuit, Monopole Support Structure

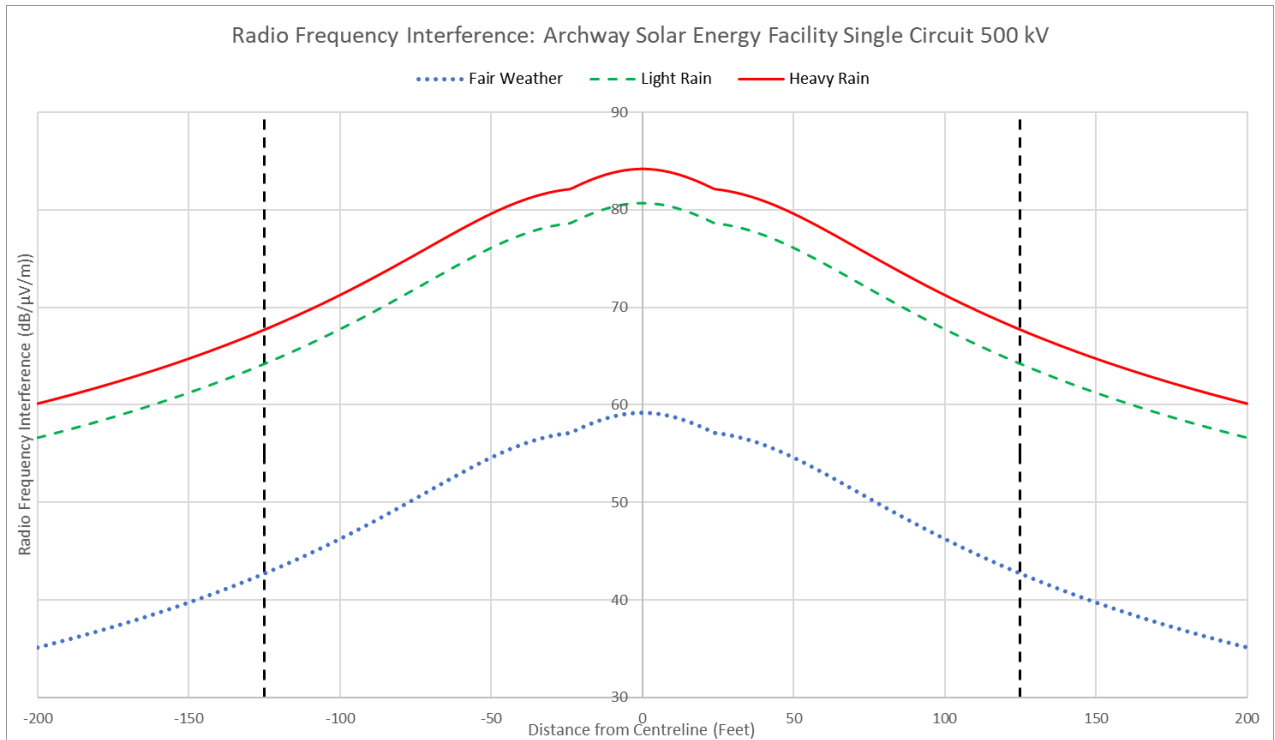


Figure AA-4. Radio Interference Profile for 500-kV Single-Circuit, Monopole Support Structure

Attachment AA-1
Results of the SESEnviroPlus Program

DATE OF RUN (Start)= DAY 20 / Month 6 / Year 2022
STARTING TIME= 16:29:21:31

1

```
=====
*                               Safe Engineering Services
*
*                               TRALIN
*
*                               Transmission Line Parameters and
Gradients      *
* Version Numbers: Major 17, Minor 1, Revision 0,
Build 9888 *
*                               Release Date: Day 10, Month 12, Year 2021
*
*                               Copyright(C) 1978 - 2021 by SES ltd. All Rights
Reserved      *
=====
```

TRALIN Package - PAGE 1

Version 17, Rev. 1, Year 2021

COMMENTS FROM
USER-----COMMENTS----COMMENTS----COMMENTS----COMMENTS-----COMMENTS
FROM USER

Inc.

Assumptions:

- Bundle spacing of 18 inches
- Pigeon for OHEW

TRALIN package - PAGE 2

RUN:

BASIC OPTIONS

SYSTEM OF UNITS: (1) i.e, British system specified

INPUT MODE OF CONDUCTOR DATA SPECIFICATION: 0 i.e.:

- Power transmission lines are overhead
- There are no cables (bare conductors only)
- Conductors will be specified on a circuit basis (symmetrical bundles, etc.)

OPTIONS IN EFFECT

TIMASHEFF	PATRA	GETRA	GATRA
-----	-----	-----	-----
no	yes	no	yes

Following options are useful to PATRA or GETRA or GATRA

	PHASE	SEQUENCE	CONDUCTOR CHARA-	ELECTROSTATIC	ELECTROMAGNETIC
LARGE					
RADIUS	REDUCTION	PARAMETERS	CTERISTICS MODE	INDUCTION	INDUCTION
	-----	-----	-----	-----	-----
no	yes	no	circuit	no	no

<----- PLOT ----->	VOLTAGE	SESSION	FORMAT	DEBUG
GRADIENT	DEVICE	SCALE	UNITS	TYPE
-----	-----	-----	-----	-----
no	plotter	0	p.u.	batch
				formatted
				no

REFERENCE VALUES:

CONDUCTIVITY : 0.10000E-13 siemens/meter
 RESISTIVITY : 0.17241E-07 ohm-meters
 PERMEABILITY : 0.12566E-05 henrys/meter
 PERMITTIVITY : 0.88540E-11 farads/meter

TRALIN package - PAGE 3

RUN:

ACCURACIES AND LIMITS:

Evaluation of the mutual impedance & enclosure functions

Maximum number of series terms : 50
 Accuracy : 0.1000E-03

Numerical Integration algorithm

Accuracy : 0.1000E-03
 Desired step : 0.1000
 Upper limit : 3.000
 Auto-integration flag : 0
 Use of asymptotic functions : 0

Accuracies and Limits for Bessel Function

Maximum number of terms : 0
 Minimum value of series term which stops summation : 0.000
 Minimum per unit value of series increment which stops summation : 0.000

Bessel Evaluation

Minimum value above which ascending series : 0.000
 Maximum value below which ascending series : 0.000

Maximum value of real part of Bessel function argument : 0.000
Maximum value of exponential argument : 0.000

TRALIN package - PAGE 4

RUN:

ENVIRONMENT DATA:

Soil is homogeneous and uniform (a semi-infinite layer).

Number of layered media specified: 2

MEDIUM NUMBER	RESISTIVITY IN ohm-meters	PERMEABILITY henrys/meter	PERMITTIVITY farads/meter	THICKNESS IN feet
(air)	0.1000E+38	0.1257E-05	0.8854E-11	0.000
2	100.0	0.1257E-05	0.8854E-11	0.000

FREQUENCY OF HARMONIC CURRENT:

Number of operating frequencies specified: 1

FREQUENCY NUMBER	FREQUENCY (Hertz)
1	60.0

TRALIN package - PAGE 5

RUN:

TOTAL NUMBER OF CIRCUITS CONSIDERED: 1

IDENTIFICATION OF CONDUCTOR	CIRCUIT NUMBER	SUBCONDUCTORS PER BUNDLE	NUMBER OF PHASES	BUNDLE RADIUS inche(s)	STARTING ANGLE degrees	CONDUCTOR RADIUS inche(s)	
	1	3	3	10.39230	120.00	0.67250	Tie

NUMBER OF NEUTRAL CONDUCTORS (metallic paths): 2

CIRCUIT IDENTIFICATION NUMBER CONDUCTOR	CONDUCTOR RADIUS OF inche(s)	
2	0.25000	N1
3	0.25000	N2

TRALIN package - PAGE 6

RUN:

COORDINATES OF PHASE CONDUCTORS (EXCLUDING CIRCUIT OFFSET)

BUNDLE NUMBER	COORDINATES-OF-BUNDLE ABSCISSA feet	HEIGHT feet	PHASE NUMBER
1	-35.000	44.520	1
2	0.000	44.520	2
3	35.000	44.520	3

COORDINATES OF NEUTRAL WIRES (EXCLUDING CIRCUIT OFFSET)

NEUTRAL WIRE NUMBER	<COORDINATES-OF-WIRE>		PHASE NUMBER
	ABSCISSA feet	HEIGHT feet	
4	-17.500	83.450	0
5	17.500	83.450	0

TRALIN package - PAGE 7

RUN:

=====

= CONDUCTOR DATA AS STORED BY PROGRAM =

=====

STANDARD PHASE CONVENTION AND IDENTIFICATION:

1 = PHASE A 2 = PHASE B 3 = PHASE C etc.
 0 = NEUTRAL WIRES (sky wires, counterpoises, pipes, etc.)

CONDUCTOR>	CONDUCTOR NUMBER	CIRCUIT NUMBER	PHASE NUMBER	CONDUCTOR RADIUS	<GLOBAL COORDINATES OF ABSCISSA
HEIGHT				inche(s)	feet
feet	<----->	<----->	<----->	<----->	<----->
45.270	1	1	1	0.67250	-35.433
43.770	2	1	1	0.67250	-35.433
44.520	3	1	1	0.67250	-34.134
	4	1	2	0.67250	-0.433

45.270					
	5	1	2	0.67250	-0.433
43.770					
	6	1	2	0.67250	0.866
44.520					
	7	1	3	0.67250	34.567
45.270					
	8	1	3	0.67250	34.567
43.770					
	9	1	3	0.67250	35.866
44.520					
	10	2	0	0.25000	-17.500
83.450					
	11	3	0	0.25000	17.500
83.450					

TRALIN package - PAGE 8

RUN:

DATA SUMMARY

=====

CIRCUIT NUMBER	TOTAL NUMBER OF PHASES	SUBCONDUCTORS IN BUNDLE
-----	-----	-----
1	3	3

TOTAL NUMBER OF NEUTRAL WIRES: 2

TRALIN package - PAGE 9

RUN:

=====

= LINE PARAMETER CALCULATIONS =

=====

RUN:

CHARACTERISTICS OF CONDUCTORS

AC RESISTANCE ohms/mile	CIRCUIT RESISTANCE NUMBER FREQUENCY Hertz	CONDUCTOR TOTAL G. M. R. NUMBER OF feet STRANDS	REACTANCE at MU RHO FINITE SPACING flag flag ohms/mile	REACTANCE FREQUENCY Hertz	REACTANCE SPACING feet	DC RESISTANCE ohms/mile
	1	0.04450		60.00000		0.07387
	0.0	45	2 2			
	2	0.01610		60.00000		0.54251
	0.0	6	2 2			
	3	0.01610		60.00000		0.54251
	0.0	6	2 2			

EQUIVALENT RESISTIVITY ohm-meters	CIRCUIT NUMBER	NUMBER OF OUTER-STRANDS	CORE OR INNER RADIUS inche(s)	OUTER-STRAND RADIUS inche(s)	RELATIVE PERMEABILITY per unit
0.39444E-07	1	22	0.16815	0.08405	1.0559
0.37921E-07	2	6	0.08366	0.08366	1.2620
0.37921E-07	3	6	0.08366	0.08366	1.2620

TRALIN package - PAGE 11

RUN:

60.00 Hertz

CASE 1 - FREQUENCY =

=====

60.00 hertz

DETAILED LINE PARAMETERS AT

=====

TRALIN package - PAGE 12

RUN:

(meghoms.mile)

POTENTIAL COEFFICIENTS

: MATRIX BLOCK (1, 1) :

Conductor Number:

1

2

3

4

=====

1	0.000	+j-0.2189			
2	0.000	+j-0.1210	0.000	+j-0.2179	
3	0.000	+j-0.1212	0.000	+j-0.1207	0.000
+j-0.2184					
4	0.000	+j-0.3022E-01	0.000	+j-0.2977E-01	0.000
+j-0.3098E-01	0.000	+j-0.2189			
5	0.000	+j-0.2977E-01	0.000	+j-0.2936E-01	0.000
+j-0.3054E-01	0.000	+j-0.1210			
6	0.000	+j-0.2907E-01	0.000	+j-0.2864E-01	0.000
+j-0.2979E-01	0.000	+j-0.1212			
7	0.000	+j-0.1456E-01	0.000	+j-0.1425E-01	0.000
+j-0.1476E-01	0.000	+j-0.3022E-01			
8	0.000	+j-0.1425E-01	0.000	+j-0.1395E-01	0.000
+j-0.1444E-01	0.000	+j-0.2977E-01			
9	0.000	+j-0.1407E-01	0.000	+j-0.1377E-01	0.000
+j-0.1426E-01	0.000	+j-0.2907E-01			
10	0.000	+j-0.3334E-01	0.000	+j-0.3206E-01	0.000
+j-0.3302E-01	0.000	+j-0.3357E-01			
11	0.000	+j-0.2244E-01	0.000	+j-0.2174E-01	0.000
+j-0.2246E-01	0.000	+j-0.3334E-01			

TRALIN package - PAGE 13

RUN:

: MATRIX BLOCK (1, 2) :

Conductor Number:

7

5

8

6

=====

5	0.000	+j-0.2179			
6	0.000	+j-0.1207	0.000	+j-0.2184	
7	0.000	+j-0.2977E-01	0.000	+j-0.3098E-01	0.000
+j-0.2189					
8	0.000	+j-0.2936E-01	0.000	+j-0.3054E-01	0.000
+j-0.1210	0.000	+j-0.2179			
9	0.000	+j-0.2864E-01	0.000	+j-0.2979E-01	0.000
+j-0.1212	0.000	+j-0.1207			
10	0.000	+j-0.3227E-01	0.000	+j-0.3258E-01	0.000
+j-0.2269E-01	0.000	+j-0.2198E-01			
11	0.000	+j-0.3206E-01	0.000	+j-0.3302E-01	0.000
+j-0.3357E-01	0.000	+j-0.3227E-01			

: MATRIX BLOCK (1, 3) :

Conductor Number:
11
=====

9

10

9	0.000	+j-0.2184			
10	0.000	+j-0.2197E-01	0.000	+j-0.2663	
11	0.000	+j-0.3258E-01	0.000	+j-0.4692E-01	0.000
+j-0.2663					

TRALIN package - PAGE 14

RUN:

SERIES IMPEDANCES - (ohms/mile)

: MATRIX BLOCK (1, 1) :

Conductor Number:
3
=====

1
4

2

1	0.1692	+j 1.344		
2	0.9214E-01	+j 0.9169	0.1693	+j 1.344
3	0.9212E-01	+j 0.9169	0.9217E-01	+j 0.9169 0.1693
+j 1.344				
4	0.9207E-01	+j 0.5348	0.9212E-01	+j 0.5346
0.9210E-01	+j 0.5393	0.1692	+j 1.344	
5	0.9212E-01	+j 0.5346	0.9217E-01	+j 0.5346
0.9215E-01	+j 0.5392	0.9214E-01	+j 0.9169	
6	0.9210E-01	+j 0.5303	0.9215E-01	+j 0.5302
0.9212E-01	+j 0.5347	0.9212E-01	+j 0.9169	
7	0.9201E-01	+j 0.4506	0.9206E-01	+j 0.4506
0.9204E-01	+j 0.4529	0.9207E-01	+j 0.5348	
8	0.9206E-01	+j 0.4506	0.9211E-01	+j 0.4505
0.9209E-01	+j 0.4528	0.9212E-01	+j 0.5346	
9	0.9203E-01	+j 0.4484	0.9208E-01	+j 0.4483
0.9206E-01	+j 0.4506	0.9210E-01	+j 0.5303	
10	0.9083E-01	+j 0.5136	0.9088E-01	+j 0.5096
0.9086E-01	+j 0.5131	0.9084E-01	+j 0.5146	
11	0.9080E-01	+j 0.4606	0.9084E-01	+j 0.4589
0.9082E-01	+j 0.4617	0.9083E-01	+j 0.5136	

: MATRIX BLOCK (1, 2) :

Conductor Number:
7

5
8

6

=====

5	0.1693	+j 1.344		
6	0.9217E-01	+j 0.9169	0.1693	+j 1.344
7	0.9212E-01	+j 0.5346	0.9210E-01	+j 0.5393
+j 1.344				0.1692
8	0.9217E-01	+j 0.5346	0.9215E-01	+j 0.5392
0.9214E-01	+j 0.9169	0.1693	+j 1.344	
9	0.9215E-01	+j 0.5302	0.9212E-01	+j 0.5347
0.9212E-01	+j 0.9169	0.9217E-01	+j 0.9169	
10	0.9088E-01	+j 0.5106	0.9086E-01	+j 0.5111
0.9080E-01	+j 0.4619	0.9085E-01	+j 0.4602	
11	0.9088E-01	+j 0.5096	0.9086E-01	+j 0.5131
0.9084E-01	+j 0.5146	0.9088E-01	+j 0.5106	

: MATRIX BLOCK (1, 3) :

Conductor Number:
11

9

10

=====

9	0.1693	+j 1.344		
10	0.9082E-01	+j 0.4591	0.6327	+j 1.470
11	0.9086E-01	+j 0.5111	0.8961E-01	+j 0.5377
+j 1.470				0.6327

RUN:

SHUNT ADMITTANCES

(microsiemens/mile)

: MATRIX BLOCK (1, 1) :

Conductor Number:

3

1
4

2

=====

1	0.000	+j 7.607			
2	0.000	+j -2.656	0.000	+j 7.620	
3 +j 7.623	0.000	+j -2.654	0.000	+j -2.648	0.000
4 +j-0.1460	0.000 0.000	+j-0.1262 +j 7.640	0.000	+j-0.1202	0.000
5 +j-0.1422	0.000 0.000	+j-0.1202 +j -2.625	0.000	+j-0.1185	0.000
6 +j-0.1180	0.000 0.000	+j-0.1020 +j -2.627	0.000	+j-0.9837E-01	0.000
7 +j-0.3539E-01	0.000 0.000	+j-0.3312E-01 +j-0.1246	0.000	+j-0.3041E-01	0.000
8 +j-0.3296E-01	0.000 0.000	+j-0.3043E-01 +j-0.1187	0.000	+j-0.2836E-01	0.000
9 +j-0.3045E-01	0.000 0.000	+j-0.2860E-01 +j-0.1028	0.000	+j-0.2628E-01	0.000
10	0.000	+j-0.2344	0.000	+j-0.1921	0.000

+j-0.2179	0.000	+j-0.2105			
11	0.000	+j-0.1047	0.000	+j-0.8917E-01	0.000
+j-0.1025	0.000	+j-0.2021			

TRALIN package - PAGE 17

RUN:

: MATRIX BLOCK (1, 2) :

Conductor Number:		5		6	
7		8			
=====					
5	0.000	+j 7.648			
6	0.000	+j -2.623	0.000	+j 7.644	
7	0.000	+j-0.1186	0.000	+j-0.1468	0.000
+j 7.614					
8	0.000	+j-0.1170	0.000	+j-0.1429	0.000
+j -2.649	0.000	+j 7.626			
9	0.000	+j-0.9906E-01	0.000	+j-0.1211	0.000
+j -2.657	0.000	+j -2.651			
10	0.000	+j-0.1712	0.000	+j-0.1784	0.000
+j-0.1086	0.000	+j-0.9276E-01			
11	0.000	+j-0.1635	0.000	+j-0.1945	0.000
+j-0.2381	0.000	+j-0.1951			

: MATRIX BLOCK (1, 3) :

Conductor Number:	9	10
11		
=====		

9	0.000	+j 7.610			
10	0.000	+j-0.9505E-01	0.000	+j 4.025	
11	0.000	+j-0.2113	0.000	+j-0.5497	0.000
+j 4.025					

TRALIN package - PAGE 18

RUN:

SERIES ADMITTANCES (siemens.mile)

: MATRIX BLOCK (1, 1) :

Conductor Number:	1	2	3	4	5	6	7
=====							
1	0.2852	+j -1.668					
2	-0.1252	+j 0.6013	0.2844	+j -1.667			
3	-0.1245	+j 0.5987	-0.1249	+j 0.5993	0.2858		
+j -1.672							
4	0.1868E-02	+j 0.4920E-01	0.1668E-02	+j 0.4929E-01			
0.6518E-03	+j 0.5365E-01	0.2867	+j -1.685				
5	0.1547E-02	+j 0.4951E-01	0.9905E-03	+j 0.5065E-01			
0.1491E-03	+j 0.5448E-01	-0.1238	+j 0.5846				
6	0.2768E-02	+j 0.4422E-01	0.2400E-02	+j 0.4483E-01			
0.1812E-02	+j 0.4802E-01	-0.1236	+j 0.5842				
7	0.3934E-02	+j 0.2591E-01	0.3667E-02	+j 0.2633E-01			

0.3641E-02 +j 0.2662E-01 0.2011E-02 +j 0.4822E-01
 8 0.3664E-02 +j 0.2633E-01 0.3325E-02 +j 0.2700E-01
 0.3331E-02 +j 0.2716E-01 0.1810E-02 +j 0.4832E-01
 9 0.3929E-02 +j 0.2570E-01 0.3631E-02 +j 0.2624E-01
 0.3657E-02 +j 0.2634E-01 0.2761E-02 +j 0.4460E-01
 10 -0.2925E-01 +j 0.6574E-01 -0.2519E-01 +j 0.6021E-01
 -0.2717E-01 +j 0.6277E-01 -0.2393E-01 +j 0.5739E-01
 11 -0.1337E-01 +j 0.4166E-01 -0.1240E-01 +j 0.3974E-01
 -0.1318E-01 +j 0.4094E-01 -0.2285E-01 +j 0.5610E-01

TRALIN package - PAGE 19

RUN:

 : MATRIX BLOCK (1, 2) :

Conductor Number:	5	6
7	8	
=====		
5	0.2857 +j -1.683	
6	-0.1241 +j 0.5851	0.2862 +j -1.684
7	0.1690E-02 +j 0.4853E-01	0.5226E-03 +j 0.5423E-01 0.2859
+j -1.671		
8	0.1133E-02 +j 0.4968E-01	0.1346E-03 +j 0.5486E-01 -0.1246
+j 0.5982	0.2851 +j -1.670	
9	0.2266E-02 +j 0.4544E-01	0.1527E-02 +j 0.4996E-01 -0.1248
+j 0.6002	-0.1252 +j 0.6009	
10	-0.2034E-01 +j 0.5207E-01	-0.2054E-01 +j 0.5280E-01
-0.1358E-01 +j 0.4185E-01	-0.1259E-01 +j 0.3989E-01	
11	-0.1935E-01 +j 0.5088E-01	-0.2261E-01 +j 0.5528E-01
-0.2928E-01 +j 0.6569E-01	-0.2515E-01 +j 0.6007E-01	

: MATRIX BLOCK (1, 3) :

Conductor Number:
11
=====

9

10

9	0.2845	+j -1.666			
10	-0.1278E-01	+j 0.4060E-01	0.3756	+j-0.7248	
11	-0.2718E-01	+j 0.6296E-01	-0.9419E-01	+j 0.7774E-01	0.3756

+j-0.7248

TRALIN package - PAGE 20

RUN:

GROUND WIRES ELIMINATED
=====

TRALIN package - PAGE 21

RUN:

(meghoms.mile)

POTENTIAL COEFFICIENTS

: MATRIX BLOCK (1, 1) :

Conductor Number:
3

1
4

2

=====

1	0.000	+j-0.2136			
2	0.000	+j-0.1159	0.000	+j-0.2130	
3 +j-0.2132	0.000	+j-0.1160	0.000	+j-0.1157	0.000
4 +j-0.2505E-01	0.000 0.000	+j-0.2426E-01 +j-0.2117	0.000	+j-0.2402E-01	0.000
5 +j-0.2484E-01	0.000 0.000	+j-0.2403E-01 +j-0.1141	0.000	+j-0.2383E-01	0.000
6 +j-0.2399E-01	0.000 0.000	+j-0.2324E-01 +j-0.1142	0.000	+j-0.2302E-01	0.000
7 +j-0.1004E-01	0.000 0.000	+j-0.9827E-02 +j-0.2422E-01	0.000	+j-0.9675E-02	0.000
8 +j-0.9888E-02	0.000 0.000	+j-0.9676E-02 +j-0.2398E-01	0.000	+j-0.9531E-02	0.000
9 +j-0.9682E-02	0.000 0.000	+j-0.9480E-02 +j-0.2325E-01	0.000	+j-0.9334E-02	0.000

TRALIN package - PAGE 22

RUN:

: MATRIX BLOCK (1, 2) :

Conductor Number:
7

5
8

6

=====

5	0.000	+j-0.2113			
---	-------	-----------	--	--	--

6	0.000	+j-0.1140	0.000	+j-0.2115	
7	0.000	+j-0.2400E-01	0.000	+j-0.2508E-01	0.000
+j-0.2136					
8	0.000	+j-0.2379E-01	0.000	+j-0.2485E-01	0.000
+j-0.1159	0.000	+j-0.2129			
9	0.000	+j-0.2305E-01	0.000	+j-0.2407E-01	0.000
+j-0.1161	0.000	+j-0.1158			

: MATRIX BLOCK (1, 3) :

Conductor Number: 9
=====

9	0.000	+j-0.2134
---	-------	-----------

TRALIN package - PAGE 23

RUN:

SERIES IMPEDANCES - (ohms/mile)

: MATRIX BLOCK (1, 1) :

Conductor Number: 1 2
3 4
=====

1	0.1645	+j 1.113		
2	0.8717E-01	+j 0.6871	0.1641	+j 1.115

3	0.8739E-01 +j 0.6857	0.8719E-01 +j 0.6869	0.1646
+j 1.112			
4	0.8872E-01 +j 0.2923	0.8851E-01 +j 0.2935	
0.8876E-01 +j 0.2967	0.1681 +j 1.088		
5	0.8845E-01 +j 0.2939	0.8825E-01 +j 0.2953	
0.8849E-01 +j 0.2984	0.9066E-01 +j 0.6634		
6	0.8854E-01 +j 0.2888	0.8834E-01 +j 0.2901	
0.8858E-01 +j 0.2931	0.9081E-01 +j 0.6625		
7	0.8608E-01 +j 0.2212	0.8592E-01 +j 0.2223	
0.8614E-01 +j 0.2232	0.8879E-01 +j 0.2918		
8	0.8592E-01 +j 0.2224	0.8577E-01 +j 0.2236	
0.8598E-01 +j 0.2244	0.8858E-01 +j 0.2930		
9	0.8586E-01 +j 0.2203	0.8571E-01 +j 0.2215	
0.8592E-01 +j 0.2224	0.8854E-01 +j 0.2888		

TRALIN package - PAGE 24

RUN:

: MATRIX BLOCK (1, 2) :

Conductor Number:	5	6	
7	8		
=====			
5	0.1675 +j 1.092		
6	0.9051E-01 +j 0.6643	0.1678 +j 1.090	
7	0.8852E-01 +j 0.2934	0.8869E-01 +j 0.2972	0.1647
+j 1.112			
8	0.8832E-01 +j 0.2948	0.8848E-01 +j 0.2985	
0.8733E-01 +j 0.6860	0.1643 +j 1.114		
9	0.8828E-01 +j 0.2906	0.8844E-01 +j 0.2941	

0.8731E-01 +j 0.6862

0.8710E-01 +j 0.6875

: MATRIX BLOCK (1, 3) :

Conductor Number: 9
=====

9 0.1642 +j 1.114

TRALIN package - PAGE 25

RUN:

SHUNT ADMITTANCES

(microsiemens/mile)

: MATRIX BLOCK (1, 1) :

Conductor Number: 1 2
3 4
=====

1	0.000	+j 7.607			
2	0.000	+j -2.656	0.000	+j 7.620	
3	0.000	+j -2.654	0.000	+j -2.648	0.000
+j 7.623					
4	0.000	+j-0.1262	0.000	+j-0.1202	0.000
+j-0.1460	0.000	+j 7.640			

5	0.000	+j-0.1202	0.000	+j-0.1185	0.000
+j-0.1422	0.000	+j -2.625			
6	0.000	+j-0.1020	0.000	+j-0.9837E-01	0.000
+j-0.1180	0.000	+j -2.627			
7	0.000	+j-0.3312E-01	0.000	+j-0.3041E-01	0.000
+j-0.3539E-01	0.000	+j-0.1246			
8	0.000	+j-0.3043E-01	0.000	+j-0.2836E-01	0.000
+j-0.3296E-01	0.000	+j-0.1187			
9	0.000	+j-0.2860E-01	0.000	+j-0.2628E-01	0.000
+j-0.3045E-01	0.000	+j-0.1028			

TRALIN package - PAGE 26

RUN:

: MATRIX BLOCK (1, 2) :

Conductor Number:

7

5

6

8

=====

5	0.000	+j 7.648			
6	0.000	+j -2.623	0.000	+j 7.644	
7	0.000	+j-0.1186	0.000	+j-0.1468	0.000
+j 7.614					
8	0.000	+j-0.1170	0.000	+j-0.1429	0.000
+j -2.649	0.000	+j 7.626			
9	0.000	+j-0.9906E-01	0.000	+j-0.1211	0.000
+j -2.657	0.000	+j -2.651			

: MATRIX BLOCK (1, 3) :

Conductor Number: 9
 =====

9 0.000 +j 7.610

TRALIN package - PAGE 27

RUN:

SERIES ADMITTANCES (siemens.mile)

 : MATRIX BLOCK (1, 1) :

Conductor Number:
 3
 =====

1
 4

2

1	0.2852	+j -1.668			
2	-0.1252	+j 0.6013	0.2844	+j -1.667	
3	-0.1245	+j 0.5987	-0.1249	+j 0.5993	0.2858
+j -1.672					
4	0.1868E-02	+j 0.4920E-01	0.1668E-02	+j 0.4929E-01	
0.6518E-03	+j 0.5365E-01	0.2867	+j -1.685		
5	0.1547E-02	+j 0.4951E-01	0.9905E-03	+j 0.5065E-01	
0.1491E-03	+j 0.5448E-01	-0.1238	+j 0.5846		
6	0.2768E-02	+j 0.4422E-01	0.2400E-02	+j 0.4483E-01	
0.1812E-02	+j 0.4802E-01	-0.1236	+j 0.5842		
7	0.3934E-02	+j 0.2591E-01	0.3667E-02	+j 0.2633E-01	
0.3641E-02	+j 0.2662E-01	0.2011E-02	+j 0.4822E-01		

8 0.3664E-02 +j 0.2633E-01 0.3325E-02 +j 0.2700E-01
 0.3331E-02 +j 0.2716E-01 0.1810E-02 +j 0.4832E-01

9 0.3929E-02 +j 0.2570E-01 0.3631E-02 +j 0.2624E-01
 0.3657E-02 +j 0.2634E-01 0.2761E-02 +j 0.4460E-01

TRALIN package - PAGE 28

RUN:

 : MATRIX BLOCK (1, 2) :

Conductor Number:
 7
 =====

5
 8

6

5	0.2857	+j -1.683			
6	-0.1241	+j 0.5851	0.2862	+j -1.684	
7	0.1690E-02	+j 0.4853E-01	0.5226E-03	+j 0.5423E-01	0.2859
+j -1.671					
8	0.1133E-02	+j 0.4968E-01	0.1346E-03	+j 0.5486E-01	-0.1246
+j 0.5982	0.2851	+j -1.670			
9	0.2266E-02	+j 0.4544E-01	0.1527E-02	+j 0.4996E-01	-0.1248
+j 0.6002	-0.1252	+j 0.6009			

 : MATRIX BLOCK (1, 3) :

Conductor Number:
 =====

9

9 0.2845 +j -1.666

TRALIN package - PAGE 29

RUN:

PHASE LINE PARAMETERS

=====

TRALIN package - PAGE 30

RUN:

POTENTIAL COEFFICIENTS

(meghoms.mile)

: MATRIX BLOCK (1, 1) :

Equivalent Phase:
3

1

2

=====

1	0.000	+j-0.1484			
2	0.000	+j-0.2403E-01	0.000	+j-0.1466	
3	0.000	+j-0.9687E-02	0.000	+j-0.2403E-01	0.000
+j-0.1484					

TRALIN package - PAGE 31

RUN:

SERIES IMPEDANCES - (ohms/mile)

 : MATRIX BLOCK (1, 1) :

Equivalent Phase:
 3
 =====

	1	2		
1	0.1130	+j 0.8288		
2	0.8852E-01	+j 0.2936	0.1164	+j 0.8056
3	0.8592E-01	+j 0.2224	0.8852E-01	+j 0.2936
+j 0.8288				0.1130

TRALIN package - PAGE 32

RUN:

SHUNT ADMITTANCES

(microsiemens/mile)

 : MATRIX BLOCK (1, 1) :

Equivalent Phase:
 3
 =====

	1	2
1	0.000	+j 6.935

2	0.000	+j -1.092	0.000	+j 7.181	
3	0.000	+j-0.2760	0.000	+j -1.092	0.000
+j 6.935					

TRALIN package - PAGE 33

RUN:

SERIES ADMITTANCES (siemens.mile)

: MATRIX BLOCK (1, 1) :

Equivalent Phase:
3

1

2

=====

1	0.1062	+j -1.408			
2	0.1385E-01	+j 0.4438	0.1156	+j -1.545	
3	0.3278E-01	+j 0.2376	0.1385E-01	+j 0.4438	0.1062
+j -1.408					

TRALIN package - PAGE 34

RUN:

(ohms.mile)

CIRCUIT-BASED SHUNT IMPEDANCES -

 : MATRIX BLOCK (1, 1) :

Equivalent Phase:
 3
 =====

		1		2	
1	0.000	+j-0.1796E+06			
2	0.000	+j-0.9160E+06	0.000	+j-0.2001E+06	
3	0.000	+j-0.3623E+07	0.000	+j-0.9160E+06	0.000
+j-0.1796E+06					

CONDUCTOR INTERNAL IMPEDANCES - (ohms/mile)

CONDUCTOR NUMBER	INTERNAL IMPEDANCES	
	Real	Imag.
1	0.77138E-01	0.27982E-01
2	0.77138E-01	0.27982E-01
3	0.77138E-01	0.27982E-01
4	0.77138E-01	0.27982E-01
5	0.77138E-01	0.27982E-01
6	0.77138E-01	0.27982E-01
7	0.77138E-01	0.27982E-01
8	0.77138E-01	0.27982E-01
9	0.77138E-01	0.27982E-01
10	0.54304	0.31280E-01
11	0.54304	0.31280E-01

TRALIN package - PAGE 35

RUN:

TRALIN package - PAGE 36

RUN:

END OF LINE PARAMETER CALCULATIONS

TRALIN package - PAGE 37

RUN:

SES-ENVIRO package - PAGE 38

RUN:

=== C O R O N A ===

Corona environmental impact evaluation.

SYSTEM OF UNITS: (1) i.e, British system specified

Network operating frequency: 60.000 Hz.

--- CIRCUIT MODE ---

SES-ENVIRO package - PAGE 39

RUN:

Number of circuits considered: 1

IDENTIFICATION OF CIRCUIT	CIRCUIT NUMBER	SUBCONDUCTORS PER BUNDLE	Coord. Ref. OF PHASES	NUMBER OF PHASES	BUNDLE Type RADIUS	STARTING ANGLE	CONDUCTOR RADIUS	
	Y	Z		of	inche(s) Coordinates	degrees	inche(s)	
	feet	feet						
Line	1	3	3	3	10.39230 Abs.	120.00	0.67250	Tie

NUMBER OF NEUTRAL CONDUCTORS (metallic paths): 2

CIRCUIT IDENTIFICATION	CONDUCTOR
NUMBER	RADIUS OF
	inche(s)
1	0.25000 N1
1	0.25000 N2

SES-ENVIRO package - PAGE 40

RUN:

GLOBAL COORDINATES OF PHASE CONDUCTORS (BUNDLES)

		BUNDLE	CIRCUIT	PHASE	----- GLOBAL COORDINATES OF BUNDLES	
-----	REAL	NUMBER	NUMBER	NUMBER	ABSCISSA	MEAN
	HEIGHT					HEIGHT
	feet				feet	feet
-----		-----	-----	-----	-----	-----
44.520		1	1	1	-35.000	44.520
44.520		2	1	2	0.000	44.520
44.520		3	1	3	35.000	44.520

Bundle number for neutral have been automatically generated starting from 900 for bundle having number 0.

GLOBAL COORDINATES OF NEUTRAL WIRES

		NEUTRAL	CIRCUIT	BUNDLE	-- GLOBAL COORDINATES OF NEUTRAL	
WIRES --	REAL	WIRE	NUMBER	NUMBER	ABSCISSA	MEAN
	HEIGHT	NUMBER				HEIGHT
	feet				feet	feet
-----		-----	-----	-----	-----	-----
83.450		1	1	901	-17.500	83.450
83.450		2	1	902	17.500	83.450

RUN:

CHARACTERISTICS OF THE BUNDLES AND THEIR

CONDUCTORS

Bund. Conductor #	Cir. Num.	Phase Numb.	Bundle Name	Nb Cond. strand	Radius of Outer surfa. bundle.	Cond. wire	Distance Bundle's Conductor	Equivalent Radius of the Bundle	Type Cond. Outer Radius
inche(s)	inche(s)	inche(s)	inche(s)	inche(s)	inche(s)	inche(s)	inche(s)	inche(s)	
1	1	1	P1	3	10.392		18.000	6.017	1
0.673		0.168	22	0.0840	0.00	No			
2	1	2	P2	3	10.392		18.000	6.017	1
0.673		0.168	22	0.0840	0.00	No			
3	1	3	P3	3	10.392		18.000	6.017	1
0.673		0.168	22	0.0840	0.00	No			
4	1	901	N1	1	0.250		0.000	0.250	1
0.250		0.084	6	0.0837	0.00	Yes			
5	1	902	N2	1	0.250		0.000	0.250	1
0.250		0.084	6	0.0837	0.00	Yes			

Bund. #	Cir. Num.	Phase Numb.	Bundle Name	m factor
1	1	1	P1	0.898
2	1	2	P2	0.898
3	1	3	P3	0.898
4	1	901	N1	0.795
5	1	902	N2	0.795

HIGH FREQUENCY PARAMETERS OF THE CONDUCTORS
 Strands factor at 0.500 MHz

BUNDLE NUMBER	CONDUCTOR TYPE	NUMBER OUTER STRANDS	RADIUS OUTER STRANDS inche	MULTIPLYING FACTOR FOR RESISTIVE IMPEDANCE
1	1	22	8.4050E-02	2.367
2	1	22	8.4050E-02	2.367
3	1	22	8.4050E-02	2.367
4	1	6	8.3661E-02	2.616
5	1	6	8.3661E-02	2.616

SES-ENVIRO package - PAGE 42

RUN:

SES-ENVIRO package - PAGE 43

RUN:

CHARACTERISTICS OF CONDUCTORS AT INPUT

CONDUCTOR REACTANCE SPACING feet	CONDUCTOR RELATIVE GROUP RESISTIVITY	CIRCUIT NUMBER	RELATIVE DC PERMEABILITY RESISTANCE ohms/mile	CONDUCTOR AC G. M. R. RESISTANCE feet ohms/mile	REACTANCE at RESISTANCE FINITE FREQUENCY ohms/mile Hertz	MU	RHO flag	REACTANCE FREQUENCY Hertz
1	1	1	7.38689E-02	4.45000E-02	0.0	2	60.000	2
2	1	1	0.54251	1.60991E-02	0.0	2	60.000	2
3	1	1	0.54251	1.60991E-02	0.0	2	60.000	2

SES-ENVIRO package - PAGE 44

RUN:

CALCULATED CHARACTERISTICS OF CONDUCTORS AT 60.000 HERTZ

EQUIVALENT RESISTIVITY	CONDUCTOR GROUP	CIRCUIT DC NUMBER	RELATIVE AC PERMEABILITY	CONDUCTOR G.M.R.	REACTANCE at FINITE SPACING	REACTANCE SPACING
ohms-meter				feet	ohms/mile	feet
	RESISTANCE	RESISTANCE	RESISTANCE			
	ohms/mile	ohms/mile	ohms/mile			
3.944367E-08	1	1	1.05589	4.450000E-02	0.377648	1.00000
	7.386889E-02	7.713760E-02				
	2	1	1.26197	1.609923E-02	0.501018	1.00000
3.792059E-08	0.542510	0.543035				
	3	1	1.26197	1.609923E-02	0.501018	1.00000
3.792059E-08	0.542510	0.543035				

SES-ENVIRO package - PAGE 45

RUN:

SES-ENVIRO package - PAGE 46

RUN:

Total number of line(s): 1

List of line numbers:

1

Number of bundle numbers: 5

List of bundle numbers:

1 2 3 901 902

Table of the address: 'lines-bundles'

Number of bundles				
1	2	3	901	902
_____	_____	_____	_____	_____

RUN:

PHASE-TO-PHASE REFERENCE VOLTAGE (in kilovolts): 500.0000

ENERGIZATION VOLTAGE (PHASE TO PHASE FOR AC) OF PHASE
CONDUCTORS AND CURRENT

<----- V O L T A G E ----->

<----- C U R R E N T ----->

C U R R E N T			V O L T A G E		
A.C. CURRENT	CIRCUIT NUMBER	PHASE D.C. CURRENT NUMBER	A.C. VOLTAGE (in per unit)	D.C. VOLTAGE (in per unit)	
(A)		(A)	Modulus	Phase	Vcc
Modulus	Phase	Icc			
462.00	1	1	1.1000	0.0000	0.0000
	0.0000	0.0000			
462.00	1	2	1.1000	120.00	0.0000
	120.00	0.0000			
462.00	1	3	1.1000	-120.00	0.0000
	-120.00	0.0000			

RUN:

=====

= CONDUCTOR DATA AS STORED BY PROGRAM =

=====

TOTAL NUMBER OF CONDUCTORS CONSIDERED: 11

STANDARD PHASE CONVENTION AND IDENTIFICATION:

1 = PHASE A 2 = PHASE B 3 = PHASE C etc.
 0 = NEUTRAL WIRES (sky wires, counterpoises, pipes, etc.)

CONDUCTOR CONDUCTOR NUMBER REAL	CIRCUIT -----> NUMBER to	PHASE ANGLE NUMBER	CONDUCTOR RADIUS Ground	CONDUCTOR Onset	<---- GLOBAL COORDINATES OF Corona ABSCISSA	MEAN HEIGHT
HEIGHT	CONDUCTOR	wire	inche(s)	Gradient	feet	feet
feet	Degrees			kV/m		
<----->	<----->	<----->	<----->	<----->	<----->	<----->
<----->	<----->	<----->	<----->	<----->	<----->	<----->
1	1	1	0.67250	No	-35.433	45.270
45.270	120.00			0.00		
2	1	1	0.67250	No	-35.433	43.770
43.770	240.00			0.00		
3	1	1	0.67250	No	-34.134	44.520
44.520	360.00			0.00		
4	1	2	0.67250	No	-0.43301	45.270
45.270	120.00			0.00		
5	1	2	0.67250	No	-0.43301	43.770
43.770	240.00			0.00		
6	1	2	0.67250	No	0.86602	44.520
44.520	360.00			0.00		
7	1	3	0.67250	No	34.567	45.270
45.270	120.00			0.00		
8	1	3	0.67250	No	34.567	43.770
43.770	240.00			0.00		
9	1	3	0.67250	No	35.866	44.520
44.520	360.00			0.00		
10	1	901	0.25000	Yes	-17.500	83.450
83.450	0.0000			0.00		
11	1	902	0.25000	Yes	17.500	83.450
83.450	0.0000			0.00		

SES-ENVIRO package - PAGE 49

RUN:

SES-ENVIRO package - PAGE 50

RUN:

Charges and gradient calculation parameters

The Maxwell coefficient of each conductor is calculated using a successive images algorithm and applying a correction factor to the charges in order to produce the correct voltage at the surface of the conductor.

Calculated number of successive images: 2

Calculated number of voltage corrections: 4

SES-ENVIRO package - PAGE 51

RUN:

Table of the address: 'conductors-bundles'

	Bundle numbers				
	1	2	3	901	902
1	1				
2	1				
3	1				
4		2			
5		2			
6		2			
7			3		
8			3		
9			3		
10				4	
11					5

RUN:

Table of the address: 'conductors-lines'

Number of the lines	
	1
1	1
2	1
3	1
4	2
5	2
6	2
7	3
8	3
9	3
10	4
11	5

RUN:

AC and DC charges on the conductors

(Coulombs)	Line	Bundle	Conductor	Q _{ac}	Angle Q _{ac}	Q _{dc}
				(Coulombs)	(Degrees)	
	1	1	1	1.32318E-06	-5.0409	
	1	1	2	1.32821E-06	-4.9387	
	1	1	3	1.35488E-06	-5.9042	
	1	2	4	1.44347E-06	120.83	
	1	2	5	1.44387E-06	120.83	
	1	2	6	1.44473E-06	118.34	
	1	3	7	1.34244E-06	-114.36	

1	3	8	1.34734E-06	-114.46
1	3	9	1.31649E-06	-115.30
1	901	10	1.64657E-07	-133.43
1	902	11	1.64661E-07	13.428

AC and DC charges on the bundles

Line	Bundle	Q_ac (Coulombs)	Angle Q_ac (Degrees)	Q_dc (Coulombs)
1	1	4.00615E-06	-5.2990	
1	2	4.33116E-06	120.00	
1	3	4.00616E-06	-114.70	
1	901	1.64657E-07	-133.43	
1	902	1.64661E-07	13.428	

SES-ENVIRO package - PAGE 54

RUN:

Conductor voltage (with respect to ground) due the charges, for verification purposes.

Line	Bund	Con	DC Potential	AC Potential
Modulus	Phase		Real	Imaginary
Volts	Degrees		Volts	Volts
317542.65	0.0000000	1	317542.65	0.0000000
317542.65	0.0000000	2	317542.65	0.0000000
317542.65	0.0000000	3	317542.65	0.0000000
317542.65	0.0000000	4	-158771.34	275000.00

317542.65	120.00000	0.0000000		
	1 2 5		-158771.34	275000.00
317542.65	120.00000	0.0000000		
	1 2 6		-158771.34	275000.00
317542.65	120.00000	0.0000000		
	1 3 7		-158771.30	-275000.02
317542.65	-119.99999	0.0000000		
	1 3 8		-158771.30	-275000.02
317542.65	-119.99999	0.0000000		
	1 3 9		-158771.30	-275000.02
317542.65	-119.99999	0.0000000		
	1 901 10		0.0000000	0.0000000
0.0000000	0.0000000	0.0000000		
	1 902 11		0.0000000	0.0000000
0.0000000	0.0000000	0.0000000		

SES-ENVIRO package - PAGE 55

RUN:

===== ELECTRIC FIELD AND POTENTIAL COMPUTATION =====

=====

DC SPACE CHARGE PARAMETERS

Positive Ion Mobility (m**2/sV)	Negative Ion Mobility (m**2/sV)	Recombination Coefficient (m**3/s)
-----	-----	-----
1.30000E-04	1.70000E-04	2.20000E-12

*** Legend ***

The expression " $|X|$ " means: absolute value of the variable X, or modulus of the complex variable X

The expression " $/_X$ " means: angle or phase of the complex variable X

===== P R O F I L E S =====

=

=====

SES-ENVIRO package - PAGE 56

RUN:

Profile No. 1

NUMBER OF POINTS : 401
 COORDINATES OF ORIGIN OF PROFILE:
 Yo = -200.00 feet
 Zo = 3.2808 feet
 COORDINATES OF END OF PROFILE:
 Ye = 200.00 feet
 Ze = 3.2808 feet

A.C. ELECTRIC FIELD

ELECTRIC FIELD WITHOUT SPACE CHARGE

EFFECT		ELECTRIC FIELD WITHOUT SPACE CHARGE			
LOCATION OF THE POINTS		-----E _{dc} -----			
-----E _{ac} -(rms)-----					
Y	Z	EDC	/_EDC	MAX	MIN
feet	feet	(kV/m)	(degrees)	(kV/m)	(kV/m)
/_MAX					
(degrees)					

-----	-----			
-200.00	3.2808	0.0000	0.0000	0.29743
3.14780E-04	87.279			
-199.00	3.2808	0.0000	0.0000	0.30177
3.14695E-04	87.266			
-198.00	3.2808	0.0000	0.0000	0.30620
3.14513E-04	87.252			
-197.00	3.2808	0.0000	0.0000	0.31072
3.14228E-04	87.239			
-196.00	3.2808	0.0000	0.0000	0.31533
3.13837E-04	87.226			
-195.00	3.2808	0.0000	0.0000	0.32003
3.13334E-04	87.212			
-194.00	3.2808	0.0000	0.0000	0.32482
3.12714E-04	87.198			
-193.00	3.2808	0.0000	0.0000	0.32971
3.11974E-04	87.184			
-192.00	3.2808	0.0000	0.0000	0.33470
3.11106E-04	87.171			
-191.00	3.2808	0.0000	0.0000	0.33979
3.10106E-04	87.156			
-190.00	3.2808	0.0000	0.0000	0.34498
3.08968E-04	87.142			
-189.00	3.2808	0.0000	0.0000	0.35028
3.07686E-04	87.128			
-188.00	3.2808	0.0000	0.0000	0.35568
3.06253E-04	87.114			
-187.00	3.2808	0.0000	0.0000	0.36120
3.04665E-04	87.099			
-186.00	3.2808	0.0000	0.0000	0.36683
3.02913E-04	87.084			
-185.00	3.2808	0.0000	0.0000	0.37258
3.00991E-04	87.070			
-184.00	3.2808	0.0000	0.0000	0.37845
2.98893E-04	87.055			
-183.00	3.2808	0.0000	0.0000	0.38444
2.96609E-04	87.040			
-182.00	3.2808	0.0000	0.0000	0.39055
2.94134E-04	87.024			
-181.00	3.2808	0.0000	0.0000	0.39680
2.91460E-04	87.009			
-180.00	3.2808	0.0000	0.0000	0.40318
2.88577E-04	86.994			
-179.00	3.2808	0.0000	0.0000	0.40970
2.85478E-04	86.978			
-178.00	3.2808	0.0000	0.0000	0.41635
2.82154E-04	86.962			
-177.00	3.2808	0.0000	0.0000	0.42315
2.78596E-04	86.946			
-176.00	3.2808	0.0000	0.0000	0.43010

2.74795E-04	86.930			
-175.00	3.2808	0.0000	0.0000	0.43720
2.70741E-04	86.914			
-174.00	3.2808	0.0000	0.0000	0.44445
2.66423E-04	86.898			
-173.00	3.2808	0.0000	0.0000	0.45186
2.61833E-04	86.882			
-172.00	3.2808	0.0000	0.0000	0.45944
2.56959E-04	86.865			
-171.00	3.2808	0.0000	0.0000	0.46719
2.51791E-04	86.848			
-170.00	3.2808	0.0000	0.0000	0.47511
2.46316E-04	86.832			
-169.00	3.2808	0.0000	0.0000	0.48320
2.40525E-04	86.815			
-168.00	3.2808	0.0000	0.0000	0.49148
2.34403E-04	86.797			
-167.00	3.2808	0.0000	0.0000	0.49995
2.27940E-04	86.780			
-166.00	3.2808	0.0000	0.0000	0.50861
2.21122E-04	86.763			
-165.00	3.2808	0.0000	0.0000	0.51747
2.13937E-04	86.745			
-164.00	3.2808	0.0000	0.0000	0.52653
2.06371E-04	86.727			
-163.00	3.2808	0.0000	0.0000	0.53580
1.98410E-04	86.710			
-162.00	3.2808	0.0000	0.0000	0.54528
1.90041E-04	86.692			
-161.00	3.2808	0.0000	0.0000	0.55499
1.81248E-04	86.673			
-160.00	3.2808	0.0000	0.0000	0.56493
1.72017E-04	86.655			
-159.00	3.2808	0.0000	0.0000	0.57510
1.62332E-04	86.637			
-158.00	3.2808	0.0000	0.0000	0.58551
1.52178E-04	86.618			
-157.00	3.2808	0.0000	0.0000	0.59616
1.41540E-04	86.599			
-156.00	3.2808	0.0000	0.0000	0.60708
1.30400E-04	86.580			
-155.00	3.2808	0.0000	0.0000	0.61825
1.18743E-04	86.561			
-154.00	3.2808	0.0000	0.0000	0.62970
1.06551E-04	86.542			
-153.00	3.2808	0.0000	0.0000	0.64142
9.38075E-05	86.522			
-152.00	3.2808	0.0000	0.0000	0.65343
8.04954E-05	86.503			
-151.00	3.2808	0.0000	0.0000	0.66573

6.65970E-05	86.483			
-150.00	3.2808	0.0000	0.0000	0.67834
5.20947E-05	86.463			
-149.00	3.2808	0.0000	0.0000	0.69126
3.69705E-05	86.443			
-148.00	3.2808	0.0000	0.0000	0.70450
2.12068E-05	86.423			
-147.00	3.2808	0.0000	0.0000	0.71807
4.78561E-06	86.403			
-146.00	3.2808	0.0000	0.0000	0.73198
1.23109E-05	86.382			
-145.00	3.2808	0.0000	0.0000	0.74625
3.01003E-05	86.361			
-144.00	3.2808	0.0000	0.0000	0.76087
4.86002E-05	86.341			
-143.00	3.2808	0.0000	0.0000	0.77587
6.78278E-05	86.320			
-142.00	3.2808	0.0000	0.0000	0.79125
8.77997E-05	86.299			
-141.00	3.2808	0.0000	0.0000	0.80703
1.08532E-04	86.277			
-140.00	3.2808	0.0000	0.0000	0.82321
1.30041E-04	86.256			
-139.00	3.2808	0.0000	0.0000	0.83982
1.52340E-04	86.234			
-138.00	3.2808	0.0000	0.0000	0.85686
1.75445E-04	86.213			
-137.00	3.2808	0.0000	0.0000	0.87435
1.99366E-04	86.191			
-136.00	3.2808	0.0000	0.0000	0.89230
2.24116E-04	86.169			
-135.00	3.2808	0.0000	0.0000	0.91072
2.49704E-04	86.147			
-134.00	3.2808	0.0000	0.0000	0.92963
2.76137E-04	86.125			
-133.00	3.2808	0.0000	0.0000	0.94905
3.03421E-04	86.103			
-132.00	3.2808	0.0000	0.0000	0.96898
3.31559E-04	86.080			
-131.00	3.2808	0.0000	0.0000	0.98946
3.60551E-04	86.058			
-130.00	3.2808	0.0000	0.0000	1.0105
3.90394E-04	86.035			
-129.00	3.2808	0.0000	0.0000	1.0321
4.21081E-04	86.012			
-128.00	3.2808	0.0000	0.0000	1.0543
4.52600E-04	85.990			
-127.00	3.2808	0.0000	0.0000	1.0771
4.84936E-04	85.967			
-126.00	3.2808	0.0000	0.0000	1.1005

5.18066E-04	85.944			
-125.00	3.2808	0.0000	0.0000	1.1246
5.51965E-04	85.921			
-124.00	3.2808	0.0000	0.0000	1.1493
5.86597E-04	85.898			
-123.00	3.2808	0.0000	0.0000	1.1747
6.21920E-04	85.875			
-122.00	3.2808	0.0000	0.0000	1.2009
6.57884E-04	85.852			
-121.00	3.2808	0.0000	0.0000	1.2278
6.94429E-04	85.828			
-120.00	3.2808	0.0000	0.0000	1.2554
7.31484E-04	85.805			
-119.00	3.2808	0.0000	0.0000	1.2838
7.68966E-04	85.782			
-118.00	3.2808	0.0000	0.0000	1.3130
8.06779E-04	85.759			
-117.00	3.2808	0.0000	0.0000	1.3430
8.44812E-04	85.736			
-116.00	3.2808	0.0000	0.0000	1.3739
8.82938E-04	85.713			
-115.00	3.2808	0.0000	0.0000	1.4057
9.21011E-04	85.690			
-114.00	3.2808	0.0000	0.0000	1.4384
9.58864E-04	85.667			
-113.00	3.2808	0.0000	0.0000	1.4721
9.96310E-04	85.645			
-112.00	3.2808	0.0000	0.0000	1.5067
1.03313E-03	85.622			
-111.00	3.2808	0.0000	0.0000	1.5423
1.06910E-03	85.600			
-110.00	3.2808	0.0000	0.0000	1.5789
1.10392E-03	85.577			
-109.00	3.2808	0.0000	0.0000	1.6166
1.13731E-03	85.555			
-108.00	3.2808	0.0000	0.0000	1.6554
1.16890E-03	85.534			
-107.00	3.2808	0.0000	0.0000	1.6953
1.19833E-03	85.512			
-106.00	3.2808	0.0000	0.0000	1.7363
1.22515E-03	85.491			
-105.00	3.2808	0.0000	0.0000	1.7786
1.24889E-03	85.471			
-104.00	3.2808	0.0000	0.0000	1.8221
1.26901E-03	85.450			
-103.00	3.2808	0.0000	0.0000	1.8668
1.28489E-03	85.430			
-102.00	3.2808	0.0000	0.0000	1.9129
1.29589E-03	85.411			
-101.00	3.2808	0.0000	0.0000	1.9603

1.30124E-03	85.392			
-100.00	3.2808	0.0000	0.0000	2.0091
1.30013E-03	85.374			
-99.000	3.2808	0.0000	0.0000	2.0592
1.29164E-03	85.356			
-98.000	3.2808	0.0000	0.0000	2.1109
1.27474E-03	85.339			
-97.000	3.2808	0.0000	0.0000	2.1640
1.24831E-03	85.323			
-96.000	3.2808	0.0000	0.0000	2.2186
1.21109E-03	85.308			
-95.000	3.2808	0.0000	0.0000	2.2748
1.16169E-03	85.294			
-94.000	3.2808	0.0000	0.0000	2.3326
1.09859E-03	85.280			
-93.000	3.2808	0.0000	0.0000	2.3921
1.02009E-03	85.268			
-92.000	3.2808	0.0000	0.0000	2.4532
9.24319E-04	85.257			
-91.000	3.2808	0.0000	0.0000	2.5160
8.09207E-04	85.247			
-90.000	3.2808	0.0000	0.0000	2.5806
6.72476E-04	85.239			
-89.000	3.2808	0.0000	0.0000	2.6469
5.11615E-04	85.232			
-88.000	3.2808	0.0000	0.0000	2.7150
3.23856E-04	85.226			
-87.000	3.2808	0.0000	0.0000	2.7850
1.06153E-04	85.223			
-86.000	3.2808	0.0000	0.0000	2.8568
1.44844E-04	85.221			
-85.000	3.2808	0.0000	0.0000	2.9304
4.32817E-04	85.221			
-84.000	3.2808	0.0000	0.0000	3.0060
7.61812E-04	85.223			
-83.000	3.2808	0.0000	0.0000	3.0835
1.13627E-03	85.227			
-82.000	3.2808	0.0000	0.0000	3.1629
1.56105E-03	85.234			
-81.000	3.2808	0.0000	0.0000	3.2442
2.04149E-03	85.243			
-80.000	3.2808	0.0000	0.0000	3.3274
2.58343E-03	85.255			
-79.000	3.2808	0.0000	0.0000	3.4126
3.19326E-03	85.270			
-78.000	3.2808	0.0000	0.0000	3.4996
3.87795E-03	85.288			
-77.000	3.2808	0.0000	0.0000	3.5884
4.64511E-03	85.309			
-76.000	3.2808	0.0000	0.0000	3.6791

5.50305E-03	85.333			
-75.000	3.2808	0.0000	0.0000	3.7716
6.46080E-03	85.362			
-74.000	3.2808	0.0000	0.0000	3.8658
7.52821E-03	85.394			
-73.000	3.2808	0.0000	0.0000	3.9617
8.71595E-03	85.430			
-72.000	3.2808	0.0000	0.0000	4.0591
1.00356E-02	85.471			
-71.000	3.2808	0.0000	0.0000	4.1580
1.14997E-02	85.517			
-70.000	3.2808	0.0000	0.0000	4.2582
1.31219E-02	85.567			
-69.000	3.2808	0.0000	0.0000	4.3596
1.49168E-02	85.622			
-68.000	3.2808	0.0000	0.0000	4.4621
1.69002E-02	85.683			
-67.000	3.2808	0.0000	0.0000	4.5654
1.90891E-02	85.750			
-66.000	3.2808	0.0000	0.0000	4.6695
2.15017E-02	85.823			
-65.000	3.2808	0.0000	0.0000	4.7740
2.41576E-02	85.902			
-64.000	3.2808	0.0000	0.0000	4.8788
2.70776E-02	85.987			
-63.000	3.2808	0.0000	0.0000	4.9836
3.02840E-02	86.079			
-62.000	3.2808	0.0000	0.0000	5.0880
3.38005E-02	86.179			
-61.000	3.2808	0.0000	0.0000	5.1918
3.76520E-02	86.286			
-60.000	3.2808	0.0000	0.0000	5.2946
4.18652E-02	86.401			
-59.000	3.2808	0.0000	0.0000	5.3961
4.64679E-02	86.523			
-58.000	3.2808	0.0000	0.0000	5.4959
5.14894E-02	86.654			
-57.000	3.2808	0.0000	0.0000	5.5935
5.69603E-02	86.793			
-56.000	3.2808	0.0000	0.0000	5.6885
6.29124E-02	86.941			
-55.000	3.2808	0.0000	0.0000	5.7805
6.93788E-02	87.098			
-54.000	3.2808	0.0000	0.0000	5.8689
7.63936E-02	87.264			
-53.000	3.2808	0.0000	0.0000	5.9534
8.39915E-02	87.439			
-52.000	3.2808	0.0000	0.0000	6.0333
9.22084E-02	87.624			
-51.000	3.2808	0.0000	0.0000	6.1081

0.10108	87.818			
-50.000	3.2808	0.0000	0.0000	6.1774
0.11064	88.021			
-49.000	3.2808	0.0000	0.0000	6.2405
0.12093	88.234			
-48.000	3.2808	0.0000	0.0000	6.2970
0.13199	88.457			
-47.000	3.2808	0.0000	0.0000	6.3464
0.14384	88.689			
-46.000	3.2808	0.0000	0.0000	6.3881
0.15652	88.929			
-45.000	3.2808	0.0000	0.0000	6.4218
0.17007	89.179			
-44.000	3.2808	0.0000	0.0000	6.4469
0.18451	89.437			
-43.000	3.2808	0.0000	0.0000	6.4631
0.19988	89.704			
-42.000	3.2808	0.0000	0.0000	6.4700
0.21619	89.978			
-41.000	3.2808	0.0000	0.0000	6.4674
0.23346	90.259			
-40.000	3.2808	0.0000	0.0000	6.4550
0.25172	90.546			
-39.000	3.2808	0.0000	0.0000	6.4327
0.27096	90.839			
-38.000	3.2808	0.0000	0.0000	6.4004
0.29121	91.136			
-37.000	3.2808	0.0000	0.0000	6.3582
0.31244	91.436			
-36.000	3.2808	0.0000	0.0000	6.3061
0.33466	91.739			
-35.000	3.2808	0.0000	0.0000	6.2444
0.35783	92.042			
-34.000	3.2808	0.0000	0.0000	6.1734
0.38194	92.344			
-33.000	3.2808	0.0000	0.0000	6.0934
0.40693	92.643			
-32.000	3.2808	0.0000	0.0000	6.0050
0.43275	92.935			
-31.000	3.2808	0.0000	0.0000	5.9089
0.45933	93.220			
-30.000	3.2808	0.0000	0.0000	5.8057
0.48657	93.493			
-29.000	3.2808	0.0000	0.0000	5.6962
0.51436	93.752			
-28.000	3.2808	0.0000	0.0000	5.5814
0.54257	93.992			
-27.000	3.2808	0.0000	0.0000	5.4624
0.57103	94.209			
-26.000	3.2808	0.0000	0.0000	5.3401

0.59955	94.398			
-25.000	3.2808	0.0000	0.0000	5.2158
0.62792	94.555			
-24.000	3.2808	0.0000	0.0000	5.0907
0.65588	94.673			
-23.000	3.2808	0.0000	0.0000	4.9661
0.68313	94.748			
-22.000	3.2808	0.0000	0.0000	4.8433
0.70936	94.773			
-21.000	3.2808	0.0000	0.0000	4.7237
0.73421	94.745			
-20.000	3.2808	0.0000	0.0000	4.6085
0.75731	94.658			
-19.000	3.2808	0.0000	0.0000	4.4990
0.77828	94.512			
-18.000	3.2808	0.0000	0.0000	4.3964
0.79676	94.305			
-17.000	3.2808	0.0000	0.0000	4.3017
0.81239	94.040			
-16.000	3.2808	0.0000	0.0000	4.2157
0.82490	93.723			
-15.000	3.2808	0.0000	0.0000	4.1390
0.83410	93.362			
-14.000	3.2808	0.0000	0.0000	4.0720
0.83989	92.969			
-13.000	3.2808	0.0000	0.0000	4.0149
0.84233	92.558			
-12.000	3.2808	0.0000	0.0000	3.9674
0.84159	92.144			
-11.000	3.2808	0.0000	0.0000	3.9290
0.83800	91.742			
-10.000	3.2808	0.0000	0.0000	3.8991
0.83199	91.367			
-9.0000	3.2808	0.0000	0.0000	3.8767
0.82411	91.029			
-8.0000	3.2808	0.0000	0.0000	3.8607
0.81494	90.737			
-7.0000	3.2808	0.0000	0.0000	3.8501
0.80510	90.497			
-6.0000	3.2808	0.0000	0.0000	3.8438
0.79519	90.308			
-5.0000	3.2808	0.0000	0.0000	3.8405
0.78577	90.169			
-4.0000	3.2808	0.0000	0.0000	3.8393
0.77735	90.076			
-3.0000	3.2808	0.0000	0.0000	3.8394
0.77035	90.022			
-2.0000	3.2808	0.0000	0.0000	3.8399
0.76510	89.997			
-1.0000	3.2808	0.0000	0.0000	3.8405

0.76186	89.993			
0.0000	3.2808	0.0000	0.0000	3.8407
0.76076	90.000			
1.0000	3.2808	0.0000	0.0000	3.8405
0.76186	90.007			
2.0000	3.2808	0.0000	0.0000	3.8399
0.76511	90.003			
3.0000	3.2808	0.0000	0.0000	3.8394
0.77035	89.979			
4.0000	3.2808	0.0000	0.0000	3.8393
0.77736	89.924			
5.0000	3.2808	0.0000	0.0000	3.8405
0.78578	89.831			
6.0000	3.2808	0.0000	0.0000	3.8437
0.79520	89.692			
7.0000	3.2808	0.0000	0.0000	3.8501
0.80511	89.503			
8.0000	3.2808	0.0000	0.0000	3.8607
0.81496	89.262			
9.0000	3.2808	0.0000	0.0000	3.8766
0.82412	88.971			
10.000	3.2808	0.0000	0.0000	3.8990
0.83200	88.633			
11.000	3.2808	0.0000	0.0000	3.9290
0.83800	88.257			
12.000	3.2808	0.0000	0.0000	3.9674
0.84159	87.856			
13.000	3.2808	0.0000	0.0000	4.0149
0.84233	87.442			
14.000	3.2808	0.0000	0.0000	4.0720
0.83989	87.030			
15.000	3.2808	0.0000	0.0000	4.1390
0.83409	86.637			
16.000	3.2808	0.0000	0.0000	4.2157
0.82489	86.276			
17.000	3.2808	0.0000	0.0000	4.3017
0.81237	85.959			
18.000	3.2808	0.0000	0.0000	4.3965
0.79674	85.694			
19.000	3.2808	0.0000	0.0000	4.4991
0.77826	85.488			
20.000	3.2808	0.0000	0.0000	4.6086
0.75728	85.341			
21.000	3.2808	0.0000	0.0000	4.7238
0.73418	85.255			
22.000	3.2808	0.0000	0.0000	4.8434
0.70932	85.227			
23.000	3.2808	0.0000	0.0000	4.9662
0.68310	85.252			
24.000	3.2808	0.0000	0.0000	5.0908

0.65584	85.327			
25.000	3.2808	0.0000	0.0000	5.2159
0.62789	85.445			
26.000	3.2808	0.0000	0.0000	5.3402
0.59952	85.602			
27.000	3.2808	0.0000	0.0000	5.4625
0.57099	85.791			
28.000	3.2808	0.0000	0.0000	5.5815
0.54253	86.008			
29.000	3.2808	0.0000	0.0000	5.6963
0.51432	86.248			
30.000	3.2808	0.0000	0.0000	5.8057
0.48653	86.507			
31.000	3.2808	0.0000	0.0000	5.9090
0.45929	86.780			
32.000	3.2808	0.0000	0.0000	6.0051
0.43272	87.065			
33.000	3.2808	0.0000	0.0000	6.0935
0.40690	87.358			
34.000	3.2808	0.0000	0.0000	6.1734
0.38191	87.656			
35.000	3.2808	0.0000	0.0000	6.2444
0.35780	87.958			
36.000	3.2808	0.0000	0.0000	6.3061
0.33463	88.261			
37.000	3.2808	0.0000	0.0000	6.3582
0.31241	88.564			
38.000	3.2808	0.0000	0.0000	6.4004
0.29118	88.865			
39.000	3.2808	0.0000	0.0000	6.4326
0.27094	89.162			
40.000	3.2808	0.0000	0.0000	6.4549
0.25169	89.455			
41.000	3.2808	0.0000	0.0000	6.4673
0.23344	89.742			
42.000	3.2808	0.0000	0.0000	6.4699
0.21617	90.023			
43.000	3.2808	0.0000	0.0000	6.4630
0.19986	90.297			
44.000	3.2808	0.0000	0.0000	6.4468
0.18450	90.563			
45.000	3.2808	0.0000	0.0000	6.4217
0.17006	90.821			
46.000	3.2808	0.0000	0.0000	6.3880
0.15651	91.071			
47.000	3.2808	0.0000	0.0000	6.3463
0.14383	91.312			
48.000	3.2808	0.0000	0.0000	6.2969
0.13198	91.543			
49.000	3.2808	0.0000	0.0000	6.2404

0.12092	91.766			
50.000	3.2808	0.0000	0.0000	6.1773
0.11063	91.979			
51.000	3.2808	0.0000	0.0000	6.1080
0.10107	92.182			
52.000	3.2808	0.0000	0.0000	6.0332
9.22021E-02	92.376			
53.000	3.2808	0.0000	0.0000	5.9533
8.39862E-02	92.561			
54.000	3.2808	0.0000	0.0000	5.8688
7.63891E-02	92.736			
55.000	3.2808	0.0000	0.0000	5.7804
6.93751E-02	92.902			
56.000	3.2808	0.0000	0.0000	5.6884
6.29093E-02	93.059			
57.000	3.2808	0.0000	0.0000	5.5934
5.69577E-02	93.207			
58.000	3.2808	0.0000	0.0000	5.4958
5.14874E-02	93.346			
59.000	3.2808	0.0000	0.0000	5.3960
4.64663E-02	93.477			
60.000	3.2808	0.0000	0.0000	5.2945
4.18640E-02	93.599			
61.000	3.2808	0.0000	0.0000	5.1917
3.76512E-02	93.714			
62.000	3.2808	0.0000	0.0000	5.0879
3.37999E-02	93.821			
63.000	3.2808	0.0000	0.0000	4.9835
3.02836E-02	93.920			
64.000	3.2808	0.0000	0.0000	4.8788
2.70774E-02	94.013			
65.000	3.2808	0.0000	0.0000	4.7740
2.41576E-02	94.098			
66.000	3.2808	0.0000	0.0000	4.6695
2.15018E-02	94.177			
67.000	3.2808	0.0000	0.0000	4.5654
1.90893E-02	94.250			
68.000	3.2808	0.0000	0.0000	4.4620
1.69005E-02	94.316			
69.000	3.2808	0.0000	0.0000	4.3595
1.49172E-02	94.377			
70.000	3.2808	0.0000	0.0000	4.2581
1.31223E-02	94.433			
71.000	3.2808	0.0000	0.0000	4.1579
1.15002E-02	94.483			
72.000	3.2808	0.0000	0.0000	4.0590
1.00361E-02	94.529			
73.000	3.2808	0.0000	0.0000	3.9616
8.71641E-03	94.570			
74.000	3.2808	0.0000	0.0000	3.8658

7.52867E-03	94.606			
75.000	3.2808	0.0000	0.0000	3.7716
6.46126E-03	94.638			
76.000	3.2808	0.0000	0.0000	3.6791
5.50350E-03	94.667			
77.000	3.2808	0.0000	0.0000	3.5884
4.64555E-03	94.691			
78.000	3.2808	0.0000	0.0000	3.4996
3.87837E-03	94.712			
79.000	3.2808	0.0000	0.0000	3.4125
3.19367E-03	94.730			
80.000	3.2808	0.0000	0.0000	3.3274
2.58383E-03	94.745			
81.000	3.2808	0.0000	0.0000	3.2442
2.04186E-03	94.757			
82.000	3.2808	0.0000	0.0000	3.1629
1.56140E-03	94.766			
83.000	3.2808	0.0000	0.0000	3.0835
1.13660E-03	94.773			
84.000	3.2808	0.0000	0.0000	3.0060
7.62124E-04	94.777			
85.000	3.2808	0.0000	0.0000	2.9304
4.33110E-04	94.779			
86.000	3.2808	0.0000	0.0000	2.8568
1.45118E-04	94.779			
87.000	3.2808	0.0000	0.0000	2.7850
1.05897E-04	94.777			
88.000	3.2808	0.0000	0.0000	2.7150
3.23617E-04	94.774			
89.000	3.2808	0.0000	0.0000	2.6469
5.11393E-04	94.768			
90.000	3.2808	0.0000	0.0000	2.5806
6.72270E-04	94.761			
91.000	3.2808	0.0000	0.0000	2.5160
8.09015E-04	94.753			
92.000	3.2808	0.0000	0.0000	2.4532
9.24142E-04	94.743			
93.000	3.2808	0.0000	0.0000	2.3921
1.01993E-03	94.732			
94.000	3.2808	0.0000	0.0000	2.3326
1.09844E-03	94.719			
95.000	3.2808	0.0000	0.0000	2.2748
1.16155E-03	94.706			
96.000	3.2808	0.0000	0.0000	2.2186
1.21096E-03	94.692			
97.000	3.2808	0.0000	0.0000	2.1640
1.24819E-03	94.677			
98.000	3.2808	0.0000	0.0000	2.1109
1.27463E-03	94.661			
99.000	3.2808	0.0000	0.0000	2.0592

1.29154E-03	94.644			
100.00	3.2808	0.0000	0.0000	2.0091
1.30004E-03	94.626			
101.00	3.2808	0.0000	0.0000	1.9603
1.30116E-03	94.608			
102.00	3.2808	0.0000	0.0000	1.9129
1.29581E-03	94.589			
103.00	3.2808	0.0000	0.0000	1.8668
1.28482E-03	94.570			
104.00	3.2808	0.0000	0.0000	1.8221
1.26894E-03	94.550			
105.00	3.2808	0.0000	0.0000	1.7786
1.24883E-03	94.529			
106.00	3.2808	0.0000	0.0000	1.7363
1.22510E-03	94.509			
107.00	3.2808	0.0000	0.0000	1.6953
1.19828E-03	94.488			
108.00	3.2808	0.0000	0.0000	1.6554
1.16885E-03	94.466			
109.00	3.2808	0.0000	0.0000	1.6166
1.13726E-03	94.445			
110.00	3.2808	0.0000	0.0000	1.5789
1.10388E-03	94.423			
111.00	3.2808	0.0000	0.0000	1.5423
1.06906E-03	94.400			
112.00	3.2808	0.0000	0.0000	1.5067
1.03310E-03	94.378			
113.00	3.2808	0.0000	0.0000	1.4721
9.96278E-04	94.355			
114.00	3.2808	0.0000	0.0000	1.4384
9.58835E-04	94.333			
115.00	3.2808	0.0000	0.0000	1.4057
9.20983E-04	94.310			
116.00	3.2808	0.0000	0.0000	1.3739
8.82913E-04	94.287			
117.00	3.2808	0.0000	0.0000	1.3430
8.44789E-04	94.264			
118.00	3.2808	0.0000	0.0000	1.3130
8.06757E-04	94.241			
119.00	3.2808	0.0000	0.0000	1.2838
7.68946E-04	94.218			
120.00	3.2808	0.0000	0.0000	1.2554
7.31466E-04	94.195			
121.00	3.2808	0.0000	0.0000	1.2278
6.94412E-04	94.172			
122.00	3.2808	0.0000	0.0000	1.2009
6.57869E-04	94.148			
123.00	3.2808	0.0000	0.0000	1.1747
6.21906E-04	94.125			
124.00	3.2808	0.0000	0.0000	1.1493

5.86584E-04	94.102			
125.00	3.2808	0.0000	0.0000	1.1246
5.51953E-04	94.079			
126.00	3.2808	0.0000	0.0000	1.1005
5.18055E-04	94.056			
127.00	3.2808	0.0000	0.0000	1.0771
4.84925E-04	94.033			
128.00	3.2808	0.0000	0.0000	1.0543
4.52591E-04	94.010			
129.00	3.2808	0.0000	0.0000	1.0321
4.21072E-04	93.988			
130.00	3.2808	0.0000	0.0000	1.0105
3.90386E-04	93.965			
131.00	3.2808	0.0000	0.0000	0.98946
3.60544E-04	93.942			
132.00	3.2808	0.0000	0.0000	0.96899
3.31553E-04	93.920			
133.00	3.2808	0.0000	0.0000	0.94905
3.03415E-04	93.897			
134.00	3.2808	0.0000	0.0000	0.92963
2.76131E-04	93.875			
135.00	3.2808	0.0000	0.0000	0.91072
2.49699E-04	93.853			
136.00	3.2808	0.0000	0.0000	0.89230
2.24111E-04	93.831			
137.00	3.2808	0.0000	0.0000	0.87435
1.99362E-04	93.809			
138.00	3.2808	0.0000	0.0000	0.85686
1.75441E-04	93.787			
139.00	3.2808	0.0000	0.0000	0.83982
1.52337E-04	93.766			
140.00	3.2808	0.0000	0.0000	0.82322
1.30038E-04	93.744			
141.00	3.2808	0.0000	0.0000	0.80703
1.08530E-04	93.723			
142.00	3.2808	0.0000	0.0000	0.79125
8.77973E-05	93.701			
143.00	3.2808	0.0000	0.0000	0.77587
6.78257E-05	93.680			
144.00	3.2808	0.0000	0.0000	0.76087
4.85984E-05	93.659			
145.00	3.2808	0.0000	0.0000	0.74625
3.00988E-05	93.639			
146.00	3.2808	0.0000	0.0000	0.73198
1.23095E-05	93.618			
147.00	3.2808	0.0000	0.0000	0.71807
4.78673E-06	93.597			
148.00	3.2808	0.0000	0.0000	0.70450
2.12077E-05	93.577			
149.00	3.2808	0.0000	0.0000	0.69126

3.69712E-05	93.557			
150.00	3.2808	0.0000	0.0000	0.67834
5.20952E-05	93.537			
151.00	3.2808	0.0000	0.0000	0.66573
6.65974E-05	93.517			
152.00	3.2808	0.0000	0.0000	0.65343
8.04956E-05	93.497			
153.00	3.2808	0.0000	0.0000	0.64142
9.38075E-05	93.478			
154.00	3.2808	0.0000	0.0000	0.62970
1.06551E-04	93.458			
155.00	3.2808	0.0000	0.0000	0.61825
1.18742E-04	93.439			
156.00	3.2808	0.0000	0.0000	0.60708
1.30400E-04	93.420			
157.00	3.2808	0.0000	0.0000	0.59617
1.41539E-04	93.401			
158.00	3.2808	0.0000	0.0000	0.58551
1.52178E-04	93.382			
159.00	3.2808	0.0000	0.0000	0.57510
1.62331E-04	93.363			
160.00	3.2808	0.0000	0.0000	0.56493
1.72016E-04	93.345			
161.00	3.2808	0.0000	0.0000	0.55499
1.81247E-04	93.327			
162.00	3.2808	0.0000	0.0000	0.54528
1.90040E-04	93.308			
163.00	3.2808	0.0000	0.0000	0.53580
1.98409E-04	93.290			
164.00	3.2808	0.0000	0.0000	0.52653
2.06370E-04	93.273			
165.00	3.2808	0.0000	0.0000	0.51747
2.13936E-04	93.255			
166.00	3.2808	0.0000	0.0000	0.50861
2.21121E-04	93.237			
167.00	3.2808	0.0000	0.0000	0.49995
2.27939E-04	93.220			
168.00	3.2808	0.0000	0.0000	0.49148
2.34402E-04	93.203			
169.00	3.2808	0.0000	0.0000	0.48320
2.40523E-04	93.185			
170.00	3.2808	0.0000	0.0000	0.47511
2.46315E-04	93.168			
171.00	3.2808	0.0000	0.0000	0.46719
2.51789E-04	93.152			
172.00	3.2808	0.0000	0.0000	0.45944
2.56958E-04	93.135			
173.00	3.2808	0.0000	0.0000	0.45187
2.61831E-04	93.118			
174.00	3.2808	0.0000	0.0000	0.44445

2.66422E-04	93.102			
175.00	3.2808	0.0000	0.0000	0.43720
2.70739E-04	93.086			
176.00	3.2808	0.0000	0.0000	0.43010
2.74793E-04	93.070			
177.00	3.2808	0.0000	0.0000	0.42315
2.78594E-04	93.054			
178.00	3.2808	0.0000	0.0000	0.41635
2.82152E-04	93.038			
179.00	3.2808	0.0000	0.0000	0.40970
2.85476E-04	93.022			
180.00	3.2808	0.0000	0.0000	0.40318
2.88575E-04	93.006			
181.00	3.2808	0.0000	0.0000	0.39680
2.91458E-04	92.991			
182.00	3.2808	0.0000	0.0000	0.39055
2.94132E-04	92.976			
183.00	3.2808	0.0000	0.0000	0.38444
2.96607E-04	92.960			
184.00	3.2808	0.0000	0.0000	0.37845
2.98890E-04	92.945			
185.00	3.2808	0.0000	0.0000	0.37258
3.00989E-04	92.930			
186.00	3.2808	0.0000	0.0000	0.36683
3.02911E-04	92.916			
187.00	3.2808	0.0000	0.0000	0.36120
3.04663E-04	92.901			
188.00	3.2808	0.0000	0.0000	0.35568
3.06251E-04	92.886			
189.00	3.2808	0.0000	0.0000	0.35028
3.07683E-04	92.872			
190.00	3.2808	0.0000	0.0000	0.34498
3.08965E-04	92.858			
191.00	3.2808	0.0000	0.0000	0.33979
3.10104E-04	92.844			
192.00	3.2808	0.0000	0.0000	0.33470
3.11104E-04	92.829			
193.00	3.2808	0.0000	0.0000	0.32971
3.11971E-04	92.816			
194.00	3.2808	0.0000	0.0000	0.32482
3.12712E-04	92.802			
195.00	3.2808	0.0000	0.0000	0.32003
3.13331E-04	92.788			
196.00	3.2808	0.0000	0.0000	0.31533
3.13834E-04	92.774			
197.00	3.2808	0.0000	0.0000	0.31072
3.14226E-04	92.761			
198.00	3.2808	0.0000	0.0000	0.30620
3.14510E-04	92.748			
199.00	3.2808	0.0000	0.0000	0.30177

3.14693E-04 92.734
 200.00 3.2808 0.0000 0.0000 0.29743
 3.14778E-04 92.721

SES-ENVIRO package - PAGE 57

RUN:

Point FIELD No.	LOCATION OF POINT			A.C. ELECTRIC		
	Y	Z	Distance	Polarization ellipse		
	Components					
Ey	/_Ey	Ez	to /_Ez origin	MAX kV/m	MIN kV/m	/_MAX degrees
kV/m	degrees feet	kV/m feet	feet			
1	-200.	3.28	0.00	0.297	3.148E-04	87.3
1.412E-02	-170.	0.297	-171.			
2	-199.	3.28	1.00	0.302	3.147E-04	87.3
1.440E-02	-170.	0.301	-171.			
3	-198.	3.28	2.00	0.306	3.145E-04	87.3
1.468E-02	-170.	0.306	-171.			
4	-197.	3.28	3.00	0.311	3.142E-04	87.2
1.497E-02	-170.	0.310	-171.			
5	-196.	3.28	4.00	0.315	3.138E-04	87.2
1.527E-02	-170.	0.315	-171.			
6	-195.	3.28	5.00	0.320	3.133E-04	87.2
1.557E-02	-170.	0.320	-171.			
7	-194.	3.28	6.00	0.325	3.127E-04	87.2
1.588E-02	-170.	0.324	-171.			
8	-193.	3.28	7.00	0.330	3.120E-04	87.2
1.620E-02	-170.	0.329	-171.			
9	-192.	3.28	8.00	0.335	3.111E-04	87.2
1.652E-02	-170.	0.334	-171.			
10	-191.	3.28	9.00	0.340	3.101E-04	87.2
1.686E-02	-170.	0.339	-171.			
11	-190.	3.28	10.0	0.345	3.090E-04	87.1
1.720E-02	-170.	0.345	-171.			
12	-189.	3.28	11.0	0.350	3.077E-04	87.1
1.755E-02	-170.	0.350	-171.			
13	-188.	3.28	12.0	0.356	3.063E-04	87.1
1.791E-02	-170.	0.355	-171.			
14	-187.	3.28	13.0	0.361	3.047E-04	87.1

1.828E-02	-170.	0.361	-171.			
15	-186.	3.28	14.0	0.367	3.029E-04	87.1
1.866E-02	-170.	0.366	-171.			
16	-185.	3.28	15.0	0.373	3.010E-04	87.1
1.905E-02	-170.	0.372	-171.			
17	-184.	3.28	16.0	0.378	2.989E-04	87.1
1.945E-02	-170.	0.378	-171.			
18	-183.	3.28	17.0	0.384	2.966E-04	87.0
1.986E-02	-170.	0.384	-171.			
19	-182.	3.28	18.0	0.391	2.941E-04	87.0
2.028E-02	-170.	0.390	-171.			
20	-181.	3.28	19.0	0.397	2.915E-04	87.0
2.071E-02	-170.	0.396	-171.			
21	-180.	3.28	20.0	0.403	2.886E-04	87.0
2.115E-02	-170.	0.403	-171.			
22	-179.	3.28	21.0	0.410	2.855E-04	87.0
2.160E-02	-170.	0.409	-171.			
23	-178.	3.28	22.0	0.416	2.822E-04	87.0
2.207E-02	-170.	0.416	-171.			
24	-177.	3.28	23.0	0.423	2.786E-04	86.9
2.254E-02	-170.	0.423	-171.			
25	-176.	3.28	24.0	0.430	2.748E-04	86.9
2.303E-02	-170.	0.429	-171.			
26	-175.	3.28	25.0	0.437	2.707E-04	86.9
2.354E-02	-170.	0.437	-171.			
27	-174.	3.28	26.0	0.444	2.664E-04	86.9
2.405E-02	-170.	0.444	-171.			
28	-173.	3.28	27.0	0.452	2.618E-04	86.9
2.458E-02	-170.	0.451	-171.			
29	-172.	3.28	28.0	0.459	2.570E-04	86.9
2.513E-02	-170.	0.459	-171.			
30	-171.	3.28	29.0	0.467	2.518E-04	86.8
2.569E-02	-170.	0.466	-171.			
31	-170.	3.28	30.0	0.475	2.463E-04	86.8
2.626E-02	-170.	0.474	-171.			
32	-169.	3.28	31.0	0.483	2.405E-04	86.8
2.685E-02	-170.	0.482	-171.			
33	-168.	3.28	32.0	0.491	2.344E-04	86.8
2.746E-02	-170.	0.491	-171.			
34	-167.	3.28	33.0	0.500	2.279E-04	86.8
2.808E-02	-170.	0.499	-171.			
35	-166.	3.28	34.0	0.509	2.211E-04	86.8
2.872E-02	-170.	0.508	-171.			
36	-165.	3.28	35.0	0.517	2.139E-04	86.7
2.938E-02	-170.	0.517	-171.			
37	-164.	3.28	36.0	0.527	2.064E-04	86.7
3.006E-02	-170.	0.526	-171.			
38	-163.	3.28	37.0	0.536	1.984E-04	86.7
3.075E-02	-170.	0.535	-171.			
39	-162.	3.28	38.0	0.545	1.900E-04	86.7

3.147E-02	-170.	0.544	-171.			
40	-161.	3.28	39.0	0.555	1.812E-04	86.7
3.221E-02	-170.	0.554	-171.			
41	-160.	3.28	40.0	0.565	1.720E-04	86.7
3.296E-02	-170.	0.564	-171.			
42	-159.	3.28	41.0	0.575	1.623E-04	86.6
3.374E-02	-170.	0.574	-171.			
43	-158.	3.28	42.0	0.586	1.522E-04	86.6
3.454E-02	-170.	0.584	-171.			
44	-157.	3.28	43.0	0.596	1.415E-04	86.6
3.537E-02	-170.	0.595	-171.			
45	-156.	3.28	44.0	0.607	1.304E-04	86.6
3.621E-02	-170.	0.606	-171.			
46	-155.	3.28	45.0	0.618	1.187E-04	86.6
3.709E-02	-170.	0.617	-171.			
47	-154.	3.28	46.0	0.630	1.066E-04	86.5
3.798E-02	-170.	0.629	-171.			
48	-153.	3.28	47.0	0.641	9.381E-05	86.5
3.891E-02	-170.	0.640	-171.			
49	-152.	3.28	48.0	0.653	8.050E-05	86.5
3.986E-02	-170.	0.652	-171.			
50	-151.	3.28	49.0	0.666	6.660E-05	86.5
4.084E-02	-170.	0.664	-171.			
51	-150.	3.28	50.0	0.678	5.209E-05	86.5
4.185E-02	-170.	0.677	-171.			
52	-149.	3.28	51.0	0.691	3.697E-05	86.4
4.289E-02	-170.	0.690	-171.			
53	-148.	3.28	52.0	0.704	2.121E-05	86.4
4.395E-02	-171.	0.703	-171.			
54	-147.	3.28	53.0	0.718	4.786E-06	86.4
4.506E-02	-171.	0.717	-171.			
55	-146.	3.28	54.0	0.732	1.231E-05	86.4
4.619E-02	-171.	0.731	-171.			
56	-145.	3.28	55.0	0.746	3.010E-05	86.4
4.736E-02	-171.	0.745	-171.			
57	-144.	3.28	56.0	0.761	4.860E-05	86.3
4.856E-02	-171.	0.759	-171.			
58	-143.	3.28	57.0	0.776	6.783E-05	86.3
4.980E-02	-171.	0.774	-171.			
59	-142.	3.28	58.0	0.791	8.780E-05	86.3
5.108E-02	-171.	0.790	-171.			
60	-141.	3.28	59.0	0.807	1.085E-04	86.3
5.240E-02	-171.	0.805	-171.			
61	-140.	3.28	60.0	0.823	1.300E-04	86.3
5.375E-02	-171.	0.821	-171.			
62	-139.	3.28	61.0	0.840	1.523E-04	86.2
5.515E-02	-171.	0.838	-171.			
63	-138.	3.28	62.0	0.857	1.754E-04	86.2
5.660E-02	-171.	0.855	-171.			
64	-137.	3.28	63.0	0.874	1.994E-04	86.2

5.808E-02	-171.	0.872	-171.			
65	-136.	3.28	64.0	0.892	2.241E-04	86.2
5.962E-02	-171.	0.890	-171.			
66	-135.	3.28	65.0	0.911	2.497E-04	86.1
6.120E-02	-171.	0.909	-171.			
67	-134.	3.28	66.0	0.930	2.761E-04	86.1
6.283E-02	-171.	0.928	-171.			
68	-133.	3.28	67.0	0.949	3.034E-04	86.1
6.451E-02	-171.	0.947	-171.			
69	-132.	3.28	68.0	0.969	3.316E-04	86.1
6.624E-02	-171.	0.967	-171.			
70	-131.	3.28	69.0	0.989	3.606E-04	86.1
6.803E-02	-171.	0.987	-171.			
71	-130.	3.28	70.0	1.01	3.904E-04	86.0
6.987E-02	-171.	1.01	-171.			
72	-129.	3.28	71.0	1.03	4.211E-04	86.0
7.177E-02	-171.	1.03	-171.			
73	-128.	3.28	72.0	1.05	4.526E-04	86.0
7.373E-02	-171.	1.05	-171.			
74	-127.	3.28	73.0	1.08	4.849E-04	86.0
7.576E-02	-171.	1.07	-171.			
75	-126.	3.28	74.0	1.10	5.181E-04	85.9
7.784E-02	-171.	1.10	-171.			
76	-125.	3.28	75.0	1.12	5.520E-04	85.9
8.000E-02	-171.	1.12	-171.			
77	-124.	3.28	76.0	1.15	5.866E-04	85.9
8.222E-02	-171.	1.15	-171.			
78	-123.	3.28	77.0	1.17	6.219E-04	85.9
8.451E-02	-171.	1.17	-171.			
79	-122.	3.28	78.0	1.20	6.579E-04	85.9
8.687E-02	-171.	1.20	-171.			
80	-121.	3.28	79.0	1.23	6.944E-04	85.8
8.931E-02	-171.	1.22	-171.			
81	-120.	3.28	80.0	1.26	7.315E-04	85.8
9.183E-02	-171.	1.25	-171.			
82	-119.	3.28	81.0	1.28	7.690E-04	85.8
9.442E-02	-171.	1.28	-171.			
83	-118.	3.28	82.0	1.31	8.068E-04	85.8
9.710E-02	-171.	1.31	-171.			
84	-117.	3.28	83.0	1.34	8.448E-04	85.7
9.986E-02	-171.	1.34	-171.			
85	-116.	3.28	84.0	1.37	8.829E-04	85.7
0.103	-171.	1.37	-171.			
86	-115.	3.28	85.0	1.41	9.210E-04	85.7
0.106	-171.	1.40	-171.			
87	-114.	3.28	86.0	1.44	9.589E-04	85.7
0.109	-171.	1.43	-171.			
88	-113.	3.28	87.0	1.47	9.963E-04	85.6
0.112	-171.	1.47	-171.			
89	-112.	3.28	88.0	1.51	1.033E-03	85.6

0.115	-171.	1.50	-171.			
90	-111.	3.28	89.0	1.54	1.069E-03	85.6
0.118	-171.	1.54	-171.			
91	-110.	3.28	90.0	1.58	1.104E-03	85.6
0.122	-171.	1.57	-171.			
92	-109.	3.28	91.0	1.62	1.137E-03	85.6
0.125	-171.	1.61	-171.			
93	-108.	3.28	92.0	1.66	1.169E-03	85.5
0.129	-171.	1.65	-171.			
94	-107.	3.28	93.0	1.70	1.198E-03	85.5
0.133	-171.	1.69	-171.			
95	-106.	3.28	94.0	1.74	1.225E-03	85.5
0.137	-171.	1.73	-171.			
96	-105.	3.28	95.0	1.78	1.249E-03	85.5
0.140	-171.	1.77	-171.			
97	-104.	3.28	96.0	1.82	1.269E-03	85.5
0.145	-171.	1.82	-171.			
98	-103.	3.28	97.0	1.87	1.285E-03	85.4
0.149	-171.	1.86	-171.			
99	-102.	3.28	98.0	1.91	1.296E-03	85.4
0.153	-171.	1.91	-171.			
100	-101.	3.28	99.0	1.96	1.301E-03	85.4
0.157	-171.	1.95	-171.			
101	-100.	3.28	100.	2.01	1.300E-03	85.4
0.162	-171.	2.00	-171.			
102	-99.0	3.28	101.	2.06	1.292E-03	85.4
0.167	-171.	2.05	-171.			
103	-98.0	3.28	102.	2.11	1.275E-03	85.3
0.172	-171.	2.10	-171.			
104	-97.0	3.28	103.	2.16	1.248E-03	85.3
0.176	-171.	2.16	-171.			
105	-96.0	3.28	104.	2.22	1.211E-03	85.3
0.181	-171.	2.21	-171.			
106	-95.0	3.28	105.	2.27	1.162E-03	85.3
0.187	-171.	2.27	-171.			
107	-94.0	3.28	106.	2.33	1.099E-03	85.3
0.192	-171.	2.32	-171.			
108	-93.0	3.28	107.	2.39	1.020E-03	85.3
0.197	-171.	2.38	-171.			
109	-92.0	3.28	108.	2.45	9.243E-04	85.3
0.203	-171.	2.44	-171.			
110	-91.0	3.28	109.	2.52	8.092E-04	85.2
0.208	-171.	2.51	-171.			
111	-90.0	3.28	110.	2.58	6.725E-04	85.2
0.214	-171.	2.57	-171.			
112	-89.0	3.28	111.	2.65	5.116E-04	85.2
0.220	-171.	2.64	-171.			
113	-88.0	3.28	112.	2.72	3.239E-04	85.2
0.226	-171.	2.71	-171.			
114	-87.0	3.28	113.	2.78	1.062E-04	85.2

0.232	-171.	2.78	-171.			
115	-86.0	3.28	114.	2.86	1.448E-04	85.2
0.238	-171.	2.85	-171.			
116	-85.0	3.28	115.	2.93	4.328E-04	85.2
0.244	-171.	2.92	-171.			
117	-84.0	3.28	116.	3.01	7.618E-04	85.2
0.250	-171.	3.00	-171.			
118	-83.0	3.28	117.	3.08	1.136E-03	85.2
0.257	-171.	3.07	-171.			
119	-82.0	3.28	118.	3.16	1.561E-03	85.2
0.263	-171.	3.15	-171.			
120	-81.0	3.28	119.	3.24	2.041E-03	85.2
0.269	-171.	3.23	-171.			
121	-80.0	3.28	120.	3.33	2.583E-03	85.3
0.275	-170.	3.32	-171.			
122	-79.0	3.28	121.	3.41	3.193E-03	85.3
0.281	-170.	3.40	-171.			
123	-78.0	3.28	122.	3.50	3.878E-03	85.3
0.288	-170.	3.49	-171.			
124	-77.0	3.28	123.	3.59	4.645E-03	85.3
0.294	-170.	3.58	-171.			
125	-76.0	3.28	124.	3.68	5.503E-03	85.3
0.299	-170.	3.67	-171.			
126	-75.0	3.28	125.	3.77	6.461E-03	85.4
0.305	-170.	3.76	-171.			
127	-74.0	3.28	126.	3.87	7.528E-03	85.4
0.311	-169.	3.85	-171.			
128	-73.0	3.28	127.	3.96	8.716E-03	85.4
0.316	-169.	3.95	-171.			
129	-72.0	3.28	128.	4.06	1.004E-02	85.5
0.321	-169.	4.05	-171.			
130	-71.0	3.28	129.	4.16	1.150E-02	85.5
0.325	-169.	4.15	-171.			
131	-70.0	3.28	130.	4.26	1.312E-02	85.6
0.329	-168.	4.25	-171.			
132	-69.0	3.28	131.	4.36	1.492E-02	85.6
0.333	-168.	4.35	-171.			
133	-68.0	3.28	132.	4.46	1.690E-02	85.7
0.336	-168.	4.45	-171.			
134	-67.0	3.28	133.	4.57	1.909E-02	85.8
0.339	-167.	4.55	-171.			
135	-66.0	3.28	134.	4.67	2.150E-02	85.8
0.341	-167.	4.66	-170.			
136	-65.0	3.28	135.	4.77	2.416E-02	85.9
0.342	-166.	4.76	-170.			
137	-64.0	3.28	136.	4.88	2.708E-02	86.0
0.342	-166.	4.87	-170.			
138	-63.0	3.28	137.	4.98	3.028E-02	86.1
0.342	-165.	4.97	-170.			
139	-62.0	3.28	138.	5.09	3.380E-02	86.2

0.341	-164.	5.08	-170.			
140	-61.0	3.28	139.	5.19	3.765E-02	86.3
0.338	-164.	5.18	-170.			
141	-60.0	3.28	140.	5.29	4.187E-02	86.4
0.335	-163.	5.28	-170.			
142	-59.0	3.28	141.	5.40	4.647E-02	86.5
0.331	-162.	5.39	-170.			
143	-58.0	3.28	142.	5.50	5.149E-02	86.7
0.325	-160.	5.49	-170.			
144	-57.0	3.28	143.	5.59	5.696E-02	86.8
0.318	-159.	5.58	-169.			
145	-56.0	3.28	144.	5.69	6.291E-02	86.9
0.310	-157.	5.68	-169.			
146	-55.0	3.28	145.	5.78	6.938E-02	87.1
0.301	-156.	5.77	-169.			
147	-54.0	3.28	146.	5.87	7.639E-02	87.3
0.290	-153.	5.86	-169.			
148	-53.0	3.28	147.	5.95	8.399E-02	87.4
0.279	-151.	5.95	-169.			
149	-52.0	3.28	148.	6.03	9.221E-02	87.6
0.267	-148.	6.03	-168.			
150	-51.0	3.28	149.	6.11	0.101	87.8
0.254	-144.	6.10	-168.			
151	-50.0	3.28	150.	6.18	0.111	88.0
0.240	-140.	6.17	-168.			
152	-49.0	3.28	151.	6.24	0.121	88.2
0.227	-135.	6.24	-167.			
153	-48.0	3.28	152.	6.30	0.132	88.5
0.215	-129.	6.29	-167.			
154	-47.0	3.28	153.	6.35	0.144	88.7
0.204	-122.	6.34	-167.			
155	-46.0	3.28	154.	6.39	0.157	88.9
0.197	-114.	6.39	-166.			
156	-45.0	3.28	155.	6.42	0.170	89.2
0.193	-104.	6.42	-166.			
157	-44.0	3.28	156.	6.45	0.185	89.4
0.195	-94.3	6.45	-165.			
158	-43.0	3.28	157.	6.46	0.200	89.7
0.203	-84.3	6.46	-165.			
159	-42.0	3.28	158.	6.47	0.216	90.0
0.216	-74.9	6.47	-164.			
160	-41.0	3.28	159.	6.47	0.233	90.3
0.235	-66.6	6.47	-164.			
161	-40.0	3.28	160.	6.45	0.252	90.5
0.259	-59.3	6.45	-163.			
162	-39.0	3.28	161.	6.43	0.271	90.8
0.287	-53.2	6.43	-162.			
163	-38.0	3.28	162.	6.40	0.291	91.1
0.318	-48.1	6.40	-162.			
164	-37.0	3.28	163.	6.36	0.312	91.4

0.351	-43.8	6.36	-161.			
165	-36.0	3.28	164.	6.31	0.335	91.7
0.385	-40.1	6.30	-160.			
166	-35.0	3.28	165.	6.24	0.358	92.0
0.421	-37.1	6.24	-159.			
167	-34.0	3.28	166.	6.17	0.382	92.3
0.458	-34.5	6.17	-158.			
168	-33.0	3.28	167.	6.09	0.407	92.6
0.494	-32.2	6.09	-157.			
169	-32.0	3.28	168.	6.01	0.433	92.9
0.530	-30.2	6.00	-155.			
170	-31.0	3.28	169.	5.91	0.459	93.2
0.566	-28.5	5.90	-154.			
171	-30.0	3.28	170.	5.81	0.487	93.5
0.601	-26.9	5.79	-153.			
172	-29.0	3.28	171.	5.70	0.514	93.8
0.634	-25.5	5.68	-151.			
173	-28.0	3.28	172.	5.58	0.543	94.0
0.666	-24.2	5.57	-149.			
174	-27.0	3.28	173.	5.46	0.571	94.2
0.696	-23.0	5.45	-148.			
175	-26.0	3.28	174.	5.34	0.600	94.4
0.725	-21.8	5.32	-146.			
176	-25.0	3.28	175.	5.22	0.628	94.6
0.751	-20.7	5.20	-144.			
177	-24.0	3.28	176.	5.09	0.656	94.7
0.774	-19.7	5.07	-141.			
178	-23.0	3.28	177.	4.97	0.683	94.7
0.795	-18.6	4.95	-139.			
179	-22.0	3.28	178.	4.84	0.709	94.8
0.814	-17.6	4.83	-137.			
180	-21.0	3.28	179.	4.72	0.734	94.7
0.829	-16.5	4.71	-134.			
181	-20.0	3.28	180.	4.61	0.757	94.7
0.843	-15.4	4.59	-131.			
182	-19.0	3.28	181.	4.50	0.778	94.5
0.853	-14.3	4.49	-128.			
183	-18.0	3.28	182.	4.40	0.797	94.3
0.860	-13.1	4.38	-125.			
184	-17.0	3.28	183.	4.30	0.812	94.0
0.865	-11.8	4.29	-122.			
185	-16.0	3.28	184.	4.22	0.825	93.7
0.867	-10.5	4.21	-118.			
186	-15.0	3.28	185.	4.14	0.834	93.4
0.867	-9.02	4.13	-115.			
187	-14.0	3.28	186.	4.07	0.840	93.0
0.865	-7.47	4.07	-111.			
188	-13.0	3.28	187.	4.01	0.842	92.6
0.860	-5.80	4.01	-107.			
189	-12.0	3.28	188.	3.97	0.842	92.1

0.854	-4.00	3.96	-104.			
190	-11.0	3.28	189.	3.93	0.838	91.7
0.846	-2.04	3.93	-99.8			
191	-10.0	3.28	190.	3.90	0.832	91.4
0.837	6.876E-02	3.90	-96.0			
192	-9.00	3.28	191.	3.88	0.824	91.0
0.827	2.35	3.88	-92.3			
193	-8.00	3.28	192.	3.86	0.815	90.7
0.816	4.80	3.86	-88.5			
194	-7.00	3.28	193.	3.85	0.805	90.5
0.806	7.44	3.85	-84.8			
195	-6.00	3.28	194.	3.84	0.795	90.3
0.795	10.2	3.84	-81.2			
196	-5.00	3.28	195.	3.84	0.786	90.2
0.786	13.2	3.84	-77.6			
197	-4.00	3.28	196.	3.84	0.777	90.1
0.777	16.4	3.84	-74.0			
198	-3.00	3.28	197.	3.84	0.770	90.0
0.770	19.6	3.84	-70.5			
199	-2.00	3.28	198.	3.84	0.765	90.0
0.765	23.0	3.84	-67.0			
200	-1.00	3.28	199.	3.84	0.762	90.0
0.762	26.5	3.84	-63.5			
201	0.00	3.28	200.	3.84	0.761	90.0
0.761	30.0	3.84	-60.0			
202	1.00	3.28	201.	3.84	0.762	90.0
0.762	33.5	3.84	-56.5			
203	2.00	3.28	202.	3.84	0.765	90.0
0.765	37.0	3.84	-53.0			
204	3.00	3.28	203.	3.84	0.770	90.0
0.770	40.4	3.84	-49.5			
205	4.00	3.28	204.	3.84	0.777	89.9
0.777	43.6	3.84	-46.0			
206	5.00	3.28	205.	3.84	0.786	89.8
0.786	46.8	3.84	-42.4			
207	6.00	3.28	206.	3.84	0.795	89.7
0.795	49.8	3.84	-38.8			
208	7.00	3.28	207.	3.85	0.805	89.5
0.806	52.6	3.85	-35.2			
209	8.00	3.28	208.	3.86	0.815	89.3
0.816	55.2	3.86	-31.5			
210	9.00	3.28	209.	3.88	0.824	89.0
0.827	57.7	3.88	-27.7			
211	10.0	3.28	210.	3.90	0.832	88.6
0.837	59.9	3.90	-24.0			
212	11.0	3.28	211.	3.93	0.838	88.3
0.846	62.0	3.93	-20.2			
213	12.0	3.28	212.	3.97	0.842	87.9
0.854	64.0	3.96	-16.4			
214	13.0	3.28	213.	4.01	0.842	87.4

0.860	65.8	4.01	-12.7			
215	14.0	3.28	214.	4.07	0.840	87.0
0.865	67.5	4.07	-9.02			
216	15.0	3.28	215.	4.14	0.834	86.6
0.867	69.0	4.13	-5.40			
217	16.0	3.28	216.	4.22	0.825	86.3
0.867	70.5	4.21	-1.87			
218	17.0	3.28	217.	4.30	0.812	86.0
0.865	71.8	4.29	1.55			
219	18.0	3.28	218.	4.40	0.797	85.7
0.860	73.1	4.38	4.85			
220	19.0	3.28	219.	4.50	0.778	85.5
0.853	74.3	4.49	8.01			
221	20.0	3.28	220.	4.61	0.757	85.3
0.842	75.4	4.59	11.0			
222	21.0	3.28	221.	4.72	0.734	85.3
0.829	76.5	4.71	13.9			
223	22.0	3.28	222.	4.84	0.709	85.2
0.814	77.6	4.83	16.6			
224	23.0	3.28	223.	4.97	0.683	85.3
0.795	78.6	4.95	19.1			
225	24.0	3.28	224.	5.09	0.656	85.3
0.774	79.7	5.07	21.5			
226	25.0	3.28	225.	5.22	0.628	85.4
0.751	80.7	5.20	23.7			
227	26.0	3.28	226.	5.34	0.600	85.6
0.725	81.8	5.32	25.8			
228	27.0	3.28	227.	5.46	0.571	85.8
0.696	83.0	5.45	27.7			
229	28.0	3.28	228.	5.58	0.543	86.0
0.666	84.2	5.57	29.5			
230	29.0	3.28	229.	5.70	0.514	86.2
0.634	85.5	5.68	31.2			
231	30.0	3.28	230.	5.81	0.487	86.5
0.601	86.9	5.80	32.7			
232	31.0	3.28	231.	5.91	0.459	86.8
0.566	88.5	5.90	34.1			
233	32.0	3.28	232.	6.01	0.433	87.1
0.530	90.2	6.00	35.4			
234	33.0	3.28	233.	6.09	0.407	87.4
0.494	92.2	6.09	36.7			
235	34.0	3.28	234.	6.17	0.382	87.7
0.458	94.5	6.17	37.8			
236	35.0	3.28	235.	6.24	0.358	88.0
0.421	97.1	6.24	38.9			
237	36.0	3.28	236.	6.31	0.335	88.3
0.385	100.	6.30	39.8			
238	37.0	3.28	237.	6.36	0.312	88.6
0.351	104.	6.36	40.7			
239	38.0	3.28	238.	6.40	0.291	88.9

0.318	108.	6.40	41.5			
240	39.0	3.28	239.	6.43	0.271	89.2
0.287	113.	6.43	42.3			
241	40.0	3.28	240.	6.45	0.252	89.5
0.259	119.	6.45	43.0			
242	41.0	3.28	241.	6.47	0.233	89.7
0.235	127.	6.47	43.7			
243	42.0	3.28	242.	6.47	0.216	90.0
0.216	135.	6.47	44.3			
244	43.0	3.28	243.	6.46	0.200	90.3
0.203	144.	6.46	44.8			
245	44.0	3.28	244.	6.45	0.184	90.6
0.195	154.	6.45	45.4			
246	45.0	3.28	245.	6.42	0.170	90.8
0.193	164.	6.42	45.8			
247	46.0	3.28	246.	6.39	0.157	91.1
0.197	174.	6.39	46.3			
248	47.0	3.28	247.	6.35	0.144	91.3
0.204	-178.	6.34	46.7			
249	48.0	3.28	248.	6.30	0.132	91.5
0.215	-171.	6.29	47.0			
250	49.0	3.28	249.	6.24	0.121	91.8
0.227	-165.	6.24	47.4			
251	50.0	3.28	250.	6.18	0.111	92.0
0.240	-160.	6.17	47.7			
252	51.0	3.28	251.	6.11	0.101	92.2
0.254	-156.	6.10	48.0			
253	52.0	3.28	252.	6.03	9.220E-02	92.4
0.267	-152.	6.03	48.3			
254	53.0	3.28	253.	5.95	8.399E-02	92.6
0.279	-149.	5.95	48.5			
255	54.0	3.28	254.	5.87	7.639E-02	92.7
0.290	-147.	5.86	48.8			
256	55.0	3.28	255.	5.78	6.938E-02	92.9
0.301	-144.	5.77	49.0			
257	56.0	3.28	256.	5.69	6.291E-02	93.1
0.310	-143.	5.68	49.2			
258	57.0	3.28	257.	5.59	5.696E-02	93.2
0.318	-141.	5.58	49.4			
259	58.0	3.28	258.	5.50	5.149E-02	93.3
0.325	-140.	5.49	49.5			
260	59.0	3.28	259.	5.40	4.647E-02	93.5
0.331	-138.	5.39	49.7			
261	60.0	3.28	260.	5.29	4.186E-02	93.6
0.335	-137.	5.28	49.8			
262	61.0	3.28	261.	5.19	3.765E-02	93.7
0.338	-136.	5.18	49.9			
263	62.0	3.28	262.	5.09	3.380E-02	93.8
0.341	-136.	5.08	50.1			
264	63.0	3.28	263.	4.98	3.028E-02	93.9

0.342	-135.	4.97	50.2			
265	64.0	3.28	264.	4.88	2.708E-02	94.0
0.342	-134.	4.87	50.3			
266	65.0	3.28	265.	4.77	2.416E-02	94.1
0.342	-134.	4.76	50.3			
267	66.0	3.28	266.	4.67	2.150E-02	94.2
0.341	-133.	4.66	50.4			
268	67.0	3.28	267.	4.57	1.909E-02	94.2
0.339	-133.	4.55	50.5			
269	68.0	3.28	268.	4.46	1.690E-02	94.3
0.336	-132.	4.45	50.6			
270	69.0	3.28	269.	4.36	1.492E-02	94.4
0.333	-132.	4.35	50.6			
271	70.0	3.28	270.	4.26	1.312E-02	94.4
0.329	-132.	4.25	50.7			
272	71.0	3.28	271.	4.16	1.150E-02	94.5
0.325	-131.	4.15	50.7			
273	72.0	3.28	272.	4.06	1.004E-02	94.5
0.321	-131.	4.05	50.8			
274	73.0	3.28	273.	3.96	8.716E-03	94.6
0.316	-131.	3.95	50.8			
275	74.0	3.28	274.	3.87	7.529E-03	94.6
0.311	-131.	3.85	50.8			
276	75.0	3.28	275.	3.77	6.461E-03	94.6
0.305	-130.	3.76	50.9			
277	76.0	3.28	276.	3.68	5.503E-03	94.7
0.299	-130.	3.67	50.9			
278	77.0	3.28	277.	3.59	4.646E-03	94.7
0.294	-130.	3.58	50.9			
279	78.0	3.28	278.	3.50	3.878E-03	94.7
0.288	-130.	3.49	50.9			
280	79.0	3.28	279.	3.41	3.194E-03	94.7
0.281	-130.	3.40	51.0			
281	80.0	3.28	280.	3.33	2.584E-03	94.7
0.275	-130.	3.32	51.0			
282	81.0	3.28	281.	3.24	2.042E-03	94.8
0.269	-129.	3.23	51.0			
283	82.0	3.28	282.	3.16	1.561E-03	94.8
0.263	-129.	3.15	51.0			
284	83.0	3.28	283.	3.08	1.137E-03	94.8
0.257	-129.	3.07	51.0			
285	84.0	3.28	284.	3.01	7.621E-04	94.8
0.250	-129.	3.00	51.0			
286	85.0	3.28	285.	2.93	4.331E-04	94.8
0.244	-129.	2.92	51.0			
287	86.0	3.28	286.	2.86	1.451E-04	94.8
0.238	-129.	2.85	51.0			
288	87.0	3.28	287.	2.78	1.059E-04	94.8
0.232	-129.	2.78	51.0			
289	88.0	3.28	288.	2.71	3.236E-04	94.8

0.226	-129.	2.71	51.0				
290	89.0	3.28	289.	2.65	5.114E-04	94.8	
0.220	-129.	2.64	51.0				
291	90.0	3.28	290.	2.58	6.723E-04	94.8	
0.214	-129.	2.57	51.0				
292	91.0	3.28	291.	2.52	8.090E-04	94.8	
0.208	-129.	2.51	51.0				
293	92.0	3.28	292.	2.45	9.241E-04	94.7	
0.203	-129.	2.44	51.0				
294	93.0	3.28	293.	2.39	1.020E-03	94.7	
0.197	-129.	2.38	51.0				
295	94.0	3.28	294.	2.33	1.098E-03	94.7	
0.192	-129.	2.32	51.0				
296	95.0	3.28	295.	2.27	1.162E-03	94.7	
0.187	-129.	2.27	51.0				
297	96.0	3.28	296.	2.22	1.211E-03	94.7	
0.181	-129.	2.21	50.9				
298	97.0	3.28	297.	2.16	1.248E-03	94.7	
0.176	-129.	2.16	50.9				
299	98.0	3.28	298.	2.11	1.275E-03	94.7	
0.172	-129.	2.10	50.9				
300	99.0	3.28	299.	2.06	1.292E-03	94.6	
0.167	-129.	2.05	50.9				
301	100.	3.28	300.	2.01	1.300E-03	94.6	
0.162	-129.	2.00	50.9				
302	101.	3.28	301.	1.96	1.301E-03	94.6	
0.157	-129.	1.95	50.9				
303	102.	3.28	302.	1.91	1.296E-03	94.6	
0.153	-129.	1.91	50.9				
304	103.	3.28	303.	1.87	1.285E-03	94.6	
0.149	-129.	1.86	50.9				
305	104.	3.28	304.	1.82	1.269E-03	94.5	
0.145	-129.	1.82	50.9				
306	105.	3.28	305.	1.78	1.249E-03	94.5	
0.140	-129.	1.77	50.8				
307	106.	3.28	306.	1.74	1.225E-03	94.5	
0.137	-129.	1.73	50.8				
308	107.	3.28	307.	1.70	1.198E-03	94.5	
0.133	-129.	1.69	50.8				
309	108.	3.28	308.	1.66	1.169E-03	94.5	
0.129	-129.	1.65	50.8				
310	109.	3.28	309.	1.62	1.137E-03	94.4	
0.125	-129.	1.61	50.8				
311	110.	3.28	310.	1.58	1.104E-03	94.4	
0.122	-129.	1.57	50.8				
312	111.	3.28	311.	1.54	1.069E-03	94.4	
0.118	-129.	1.54	50.8				
313	112.	3.28	312.	1.51	1.033E-03	94.4	
0.115	-129.	1.50	50.8				
314	113.	3.28	313.	1.47	9.963E-04	94.4	

0.112	-129.	1.47	50.7				
315	114.	3.28	314.	1.44	9.588E-04	94.3	
0.109	-129.	1.43	50.7				
316	115.	3.28	315.	1.41	9.210E-04	94.3	
0.106	-129.	1.40	50.7				
317	116.	3.28	316.	1.37	8.829E-04	94.3	
0.103	-129.	1.37	50.7				
318	117.	3.28	317.	1.34	8.448E-04	94.3	
9.986E-02	-129.	1.34	50.7				
319	118.	3.28	318.	1.31	8.068E-04	94.2	
9.710E-02	-129.	1.31	50.7				
320	119.	3.28	319.	1.28	7.689E-04	94.2	
9.442E-02	-129.	1.28	50.7				
321	120.	3.28	320.	1.26	7.315E-04	94.2	
9.183E-02	-129.	1.25	50.7				
322	121.	3.28	321.	1.23	6.944E-04	94.2	
8.931E-02	-129.	1.22	50.7				
323	122.	3.28	322.	1.20	6.579E-04	94.1	
8.687E-02	-129.	1.20	50.6				
324	123.	3.28	323.	1.17	6.219E-04	94.1	
8.451E-02	-129.	1.17	50.6				
325	124.	3.28	324.	1.15	5.866E-04	94.1	
8.222E-02	-129.	1.15	50.6				
326	125.	3.28	325.	1.12	5.520E-04	94.1	
8.000E-02	-129.	1.12	50.6				
327	126.	3.28	326.	1.10	5.181E-04	94.1	
7.784E-02	-129.	1.10	50.6				
328	127.	3.28	327.	1.08	4.849E-04	94.0	
7.576E-02	-129.	1.07	50.6				
329	128.	3.28	328.	1.05	4.526E-04	94.0	
7.373E-02	-129.	1.05	50.6				
330	129.	3.28	329.	1.03	4.211E-04	94.0	
7.177E-02	-129.	1.03	50.6				
331	130.	3.28	330.	1.01	3.904E-04	94.0	
6.987E-02	-129.	1.01	50.6				
332	131.	3.28	331.	0.989	3.605E-04	93.9	
6.803E-02	-129.	0.987	50.6				
333	132.	3.28	332.	0.969	3.316E-04	93.9	
6.624E-02	-129.	0.967	50.6				
334	133.	3.28	333.	0.949	3.034E-04	93.9	
6.451E-02	-129.	0.947	50.6				
335	134.	3.28	334.	0.930	2.761E-04	93.9	
6.283E-02	-129.	0.928	50.6				
336	135.	3.28	335.	0.911	2.497E-04	93.9	
6.120E-02	-129.	0.909	50.6				
337	136.	3.28	336.	0.892	2.241E-04	93.8	
5.962E-02	-129.	0.890	50.6				
338	137.	3.28	337.	0.874	1.994E-04	93.8	
5.808E-02	-129.	0.872	50.5				
339	138.	3.28	338.	0.857	1.754E-04	93.8	

5.660E-02	-129.	0.855	50.5			
340	139.	3.28	339.	0.840	1.523E-04	93.8
5.515E-02	-129.	0.838	50.5			
341	140.	3.28	340.	0.823	1.300E-04	93.7
5.376E-02	-129.	0.821	50.5			
342	141.	3.28	341.	0.807	1.085E-04	93.7
5.240E-02	-129.	0.805	50.5			
343	142.	3.28	342.	0.791	8.780E-05	93.7
5.108E-02	-129.	0.790	50.5			
344	143.	3.28	343.	0.776	6.783E-05	93.7
4.980E-02	-129.	0.774	50.5			
345	144.	3.28	344.	0.761	4.860E-05	93.7
4.856E-02	-129.	0.759	50.5			
346	145.	3.28	345.	0.746	3.010E-05	93.6
4.736E-02	-129.	0.745	50.5			
347	146.	3.28	346.	0.732	1.231E-05	93.6
4.619E-02	-129.	0.731	50.5			
348	147.	3.28	347.	0.718	4.787E-06	93.6
4.506E-02	-129.	0.717	50.5			
349	148.	3.28	348.	0.705	2.121E-05	93.6
4.395E-02	-129.	0.703	50.5			
350	149.	3.28	349.	0.691	3.697E-05	93.6
4.289E-02	-130.	0.690	50.5			
351	150.	3.28	350.	0.678	5.210E-05	93.5
4.185E-02	-130.	0.677	50.5			
352	151.	3.28	351.	0.666	6.660E-05	93.5
4.084E-02	-130.	0.664	50.5			
353	152.	3.28	352.	0.653	8.050E-05	93.5
3.986E-02	-130.	0.652	50.5			
354	153.	3.28	353.	0.641	9.381E-05	93.5
3.891E-02	-130.	0.640	50.5			
355	154.	3.28	354.	0.630	1.066E-04	93.5
3.798E-02	-130.	0.629	50.5			
356	155.	3.28	355.	0.618	1.187E-04	93.4
3.709E-02	-130.	0.617	50.5			
357	156.	3.28	356.	0.607	1.304E-04	93.4
3.621E-02	-130.	0.606	50.5			
358	157.	3.28	357.	0.596	1.415E-04	93.4
3.537E-02	-130.	0.595	50.6			
359	158.	3.28	358.	0.586	1.522E-04	93.4
3.454E-02	-130.	0.584	50.6			
360	159.	3.28	359.	0.575	1.623E-04	93.4
3.374E-02	-130.	0.574	50.6			
361	160.	3.28	360.	0.565	1.720E-04	93.3
3.296E-02	-130.	0.564	50.6			
362	161.	3.28	361.	0.555	1.812E-04	93.3
3.221E-02	-130.	0.554	50.6			
363	162.	3.28	362.	0.545	1.900E-04	93.3
3.147E-02	-130.	0.544	50.6			
364	163.	3.28	363.	0.536	1.984E-04	93.3

3.075E-02	-130.	0.535	50.6			
365	164.	3.28	364.	0.527	2.064E-04	93.3
3.006E-02	-130.	0.526	50.6			
366	165.	3.28	365.	0.517	2.139E-04	93.3
2.938E-02	-130.	0.517	50.6			
367	166.	3.28	366.	0.509	2.211E-04	93.2
2.872E-02	-130.	0.508	50.6			
368	167.	3.28	367.	0.500	2.279E-04	93.2
2.808E-02	-130.	0.499	50.6			
369	168.	3.28	368.	0.491	2.344E-04	93.2
2.746E-02	-130.	0.491	50.6			
370	169.	3.28	369.	0.483	2.405E-04	93.2
2.685E-02	-130.	0.482	50.6			
371	170.	3.28	370.	0.475	2.463E-04	93.2
2.626E-02	-130.	0.474	50.6			
372	171.	3.28	371.	0.467	2.518E-04	93.2
2.569E-02	-130.	0.466	50.6			
373	172.	3.28	372.	0.459	2.570E-04	93.1
2.513E-02	-130.	0.459	50.7			
374	173.	3.28	373.	0.452	2.618E-04	93.1
2.458E-02	-130.	0.451	50.7			
375	174.	3.28	374.	0.444	2.664E-04	93.1
2.405E-02	-130.	0.444	50.7			
376	175.	3.28	375.	0.437	2.707E-04	93.1
2.354E-02	-130.	0.437	50.7			
377	176.	3.28	376.	0.430	2.748E-04	93.1
2.303E-02	-130.	0.429	50.7			
378	177.	3.28	377.	0.423	2.786E-04	93.1
2.254E-02	-130.	0.423	50.7			
379	178.	3.28	378.	0.416	2.822E-04	93.0
2.207E-02	-130.	0.416	50.7			
380	179.	3.28	379.	0.410	2.855E-04	93.0
2.160E-02	-130.	0.409	50.7			
381	180.	3.28	380.	0.403	2.886E-04	93.0
2.115E-02	-130.	0.403	50.7			
382	181.	3.28	381.	0.397	2.915E-04	93.0
2.071E-02	-130.	0.396	50.8			
383	182.	3.28	382.	0.391	2.941E-04	93.0
2.028E-02	-130.	0.390	50.8			
384	183.	3.28	383.	0.384	2.966E-04	93.0
1.986E-02	-130.	0.384	50.8			
385	184.	3.28	384.	0.378	2.989E-04	92.9
1.945E-02	-130.	0.378	50.8			
386	185.	3.28	385.	0.373	3.010E-04	92.9
1.905E-02	-130.	0.372	50.8			
387	186.	3.28	386.	0.367	3.029E-04	92.9
1.866E-02	-130.	0.366	50.8			
388	187.	3.28	387.	0.361	3.047E-04	92.9
1.828E-02	-130.	0.361	50.8			
389	188.	3.28	388.	0.356	3.063E-04	92.9

1.791E-02	-130.	0.355	50.9			
390	189.	3.28	389.	0.350	3.077E-04	92.9
1.755E-02	-130.	0.350	50.9			
391	190.	3.28	390.	0.345	3.090E-04	92.9
1.720E-02	-130.	0.345	50.9			
392	191.	3.28	391.	0.340	3.101E-04	92.8
1.686E-02	-130.	0.339	50.9			
393	192.	3.28	392.	0.335	3.111E-04	92.8
1.652E-02	-130.	0.334	50.9			
394	193.	3.28	393.	0.330	3.120E-04	92.8
1.620E-02	-130.	0.329	50.9			
395	194.	3.28	394.	0.325	3.127E-04	92.8
1.588E-02	-130.	0.324	51.0			
396	195.	3.28	395.	0.320	3.133E-04	92.8
1.557E-02	-130.	0.320	51.0			
397	196.	3.28	396.	0.315	3.138E-04	92.8
1.527E-02	-130.	0.315	51.0			
398	197.	3.28	397.	0.311	3.142E-04	92.8
1.497E-02	-130.	0.310	51.0			
399	198.	3.28	398.	0.306	3.145E-04	92.7
1.468E-02	-130.	0.306	51.0			
400	199.	3.28	399.	0.302	3.147E-04	92.7
1.440E-02	-130.	0.301	51.0			
401	200.	3.28	400.	0.297	3.148E-04	92.7
1.412E-02	-130.	0.297	51.1			

SES-ENVIRO package - PAGE 58

RUN:

Profile No. 1

NUMBER OF POINTS : 401
COORDINATES OF ORIGIN OF PROFILE:
Yo = -200.00 feet
Zo = 3.2808 feet
COORDINATES OF END OF PROFILE:
Ye = 200.00 feet
Ze = 3.2808 feet

A.C. ELECTRIC POTENTIAL

CALCULATION

CHARGE EFFECT

ELECTRIC POTENTIAL WITHOUT SPACE

LOCATION OF THE POINTS			----Vdc----	
Y	Z	Distance	Vdc	Vac
feet	feet	feet	(Volts)	(Volts)
/_Vac (degrees)				
-200.00	3.2808	0.0000	0.0000	297.38
8.9424				
-199.00	3.2808	1.0000	0.0000	301.73
8.9607				
-198.00	3.2808	2.0000	0.0000	306.16
8.9788				
-197.00	3.2808	3.0000	0.0000	310.68
8.9966				
-196.00	3.2808	4.0000	0.0000	315.29
9.0141				
-195.00	3.2808	5.0000	0.0000	319.98
9.0314				
-194.00	3.2808	6.0000	0.0000	324.78
9.0484				
-193.00	3.2808	7.0000	0.0000	329.66
9.0650				
-192.00	3.2808	8.0000	0.0000	334.65
9.0814				
-191.00	3.2808	9.0000	0.0000	339.74
9.0975				
-190.00	3.2808	10.000	0.0000	344.93
9.1133				
-189.00	3.2808	11.000	0.0000	350.22
9.1288				
-188.00	3.2808	12.000	0.0000	355.63
9.1440				
-187.00	3.2808	13.000	0.0000	361.14
9.1589				
-186.00	3.2808	14.000	0.0000	366.77
9.1735				
-185.00	3.2808	15.000	0.0000	372.52
9.1878				
-184.00	3.2808	16.000	0.0000	378.38
9.2018				
-183.00	3.2808	17.000	0.0000	384.37

9.2154					
-182.00	3.2808	18.000	0.0000	390.49	
9.2287					
-181.00	3.2808	19.000	0.0000	396.73	
9.2417					
-180.00	3.2808	20.000	0.0000	403.11	
9.2544					
-179.00	3.2808	21.000	0.0000	409.62	
9.2668					
-178.00	3.2808	22.000	0.0000	416.28	
9.2788					
-177.00	3.2808	23.000	0.0000	423.07	
9.2905					
-176.00	3.2808	24.000	0.0000	430.02	
9.3018					
-175.00	3.2808	25.000	0.0000	437.12	
9.3128					
-174.00	3.2808	26.000	0.0000	444.37	
9.3235					
-173.00	3.2808	27.000	0.0000	451.78	
9.3338					
-172.00	3.2808	28.000	0.0000	459.35	
9.3438					
-171.00	3.2808	29.000	0.0000	467.10	
9.3534					
-170.00	3.2808	30.000	0.0000	475.01	
9.3626					
-169.00	3.2808	31.000	0.0000	483.11	
9.3715					
-168.00	3.2808	32.000	0.0000	491.38	
9.3800					
-167.00	3.2808	33.000	0.0000	499.84	
9.3882					
-166.00	3.2808	34.000	0.0000	508.50	
9.3960					
-165.00	3.2808	35.000	0.0000	517.36	
9.4034					
-164.00	3.2808	36.000	0.0000	526.41	
9.4105					
-163.00	3.2808	37.000	0.0000	535.68	
9.4172					
-162.00	3.2808	38.000	0.0000	545.16	
9.4235					
-161.00	3.2808	39.000	0.0000	554.87	
9.4294					
-160.00	3.2808	40.000	0.0000	564.80	
9.4349					
-159.00	3.2808	41.000	0.0000	574.96	
9.4401					
-158.00	3.2808	42.000	0.0000	585.37	

9.4448					
-157.00	3.2808	43.000	0.0000	596.02	
9.4492					
-156.00	3.2808	44.000	0.0000	606.93	
9.4532					
-155.00	3.2808	45.000	0.0000	618.10	
9.4567					
-154.00	3.2808	46.000	0.0000	629.54	
9.4599					
-153.00	3.2808	47.000	0.0000	641.26	
9.4627					
-152.00	3.2808	48.000	0.0000	653.26	
9.4651					
-151.00	3.2808	49.000	0.0000	665.56	
9.4670					
-150.00	3.2808	50.000	0.0000	678.16	
9.4686					
-149.00	3.2808	51.000	0.0000	691.07	
9.4698					
-148.00	3.2808	52.000	0.0000	704.30	
9.4705					
-147.00	3.2808	53.000	0.0000	717.87	
9.4709					
-146.00	3.2808	54.000	0.0000	731.77	
9.4708					
-145.00	3.2808	55.000	0.0000	746.03	
9.4704					
-144.00	3.2808	56.000	0.0000	760.65	
9.4695					
-143.00	3.2808	57.000	0.0000	775.64	
9.4682					
-142.00	3.2808	58.000	0.0000	791.01	
9.4665					
-141.00	3.2808	59.000	0.0000	806.78	
9.4644					
-140.00	3.2808	60.000	0.0000	822.96	
9.4618					
-139.00	3.2808	61.000	0.0000	839.55	
9.4589					
-138.00	3.2808	62.000	0.0000	856.58	
9.4556					
-137.00	3.2808	63.000	0.0000	874.06	
9.4518					
-136.00	3.2808	64.000	0.0000	891.99	
9.4477					
-135.00	3.2808	65.000	0.0000	910.40	
9.4431					
-134.00	3.2808	66.000	0.0000	929.30	
9.4382					
-133.00	3.2808	67.000	0.0000	948.71	

9.4328					
-132.00	3.2808	68.000	0.0000	968.63	
9.4271					
-131.00	3.2808	69.000	0.0000	989.09	
9.4209					
-130.00	3.2808	70.000	0.0000	1010.1	
9.4144					
-129.00	3.2808	71.000	0.0000	1031.7	
9.4075					
-128.00	3.2808	72.000	0.0000	1053.9	
9.4002					
-127.00	3.2808	73.000	0.0000	1076.6	
9.3926					
-126.00	3.2808	74.000	0.0000	1100.1	
9.3845					
-125.00	3.2808	75.000	0.0000	1124.1	
9.3762					
-124.00	3.2808	76.000	0.0000	1148.8	
9.3675					
-123.00	3.2808	77.000	0.0000	1174.2	
9.3584					
-122.00	3.2808	78.000	0.0000	1200.3	
9.3490					
-121.00	3.2808	79.000	0.0000	1227.2	
9.3393					
-120.00	3.2808	80.000	0.0000	1254.8	
9.3293					
-119.00	3.2808	81.000	0.0000	1283.2	
9.3191					
-118.00	3.2808	82.000	0.0000	1312.4	
9.3085					
-117.00	3.2808	83.000	0.0000	1342.4	
9.2976					
-116.00	3.2808	84.000	0.0000	1373.2	
9.2866					
-115.00	3.2808	85.000	0.0000	1405.0	
9.2753					
-114.00	3.2808	86.000	0.0000	1437.7	
9.2637					
-113.00	3.2808	87.000	0.0000	1471.3	
9.2520					
-112.00	3.2808	88.000	0.0000	1505.8	
9.2401					
-111.00	3.2808	89.000	0.0000	1541.4	
9.2281					
-110.00	3.2808	90.000	0.0000	1578.0	
9.2160					
-109.00	3.2808	91.000	0.0000	1615.6	
9.2037					
-108.00	3.2808	92.000	0.0000	1654.3	

9.1914					
-107.00	3.2808	93.000	0.0000	1694.2	
9.1791					
-106.00	3.2808	94.000	0.0000	1735.2	
9.1668					
-105.00	3.2808	95.000	0.0000	1777.4	
9.1545					
-104.00	3.2808	96.000	0.0000	1820.8	
9.1422					
-103.00	3.2808	97.000	0.0000	1865.5	
9.1301					
-102.00	3.2808	98.000	0.0000	1911.5	
9.1182					
-101.00	3.2808	99.000	0.0000	1958.8	
9.1065					
-100.00	3.2808	100.00	0.0000	2007.5	
9.0950					
-99.000	3.2808	101.00	0.0000	2057.6	
9.0838					
-98.000	3.2808	102.00	0.0000	2109.2	
9.0730					
-97.000	3.2808	103.00	0.0000	2162.2	
9.0627					
-96.000	3.2808	104.00	0.0000	2216.8	
9.0528					
-95.000	3.2808	105.00	0.0000	2272.8	
9.0435					
-94.000	3.2808	106.00	0.0000	2330.5	
9.0349					
-93.000	3.2808	107.00	0.0000	2389.9	
9.0270					
-92.000	3.2808	108.00	0.0000	2450.8	
9.0199					
-91.000	3.2808	109.00	0.0000	2513.5	
9.0137					
-90.000	3.2808	110.00	0.0000	2577.9	
9.0085					
-89.000	3.2808	111.00	0.0000	2644.1	
9.0044					
-88.000	3.2808	112.00	0.0000	2712.1	
9.0016					
-87.000	3.2808	113.00	0.0000	2781.8	
9.0001					
-86.000	3.2808	114.00	0.0000	2853.5	
9.0000					
-85.000	3.2808	115.00	0.0000	2926.9	
9.0016					
-84.000	3.2808	116.00	0.0000	3002.3	
9.0049					
-83.000	3.2808	117.00	0.0000	3079.6	

9.0101					
-82.000	3.2808	118.00	0.0000	3158.7	
9.0175					
-81.000	3.2808	119.00	0.0000	3239.8	
9.0270					
-80.000	3.2808	120.00	0.0000	3322.7	
9.0391					
-79.000	3.2808	121.00	0.0000	3407.6	
9.0537					
-78.000	3.2808	122.00	0.0000	3494.3	
9.0713					
-77.000	3.2808	123.00	0.0000	3582.8	
9.0920					
-76.000	3.2808	124.00	0.0000	3673.2	
9.1160					
-75.000	3.2808	125.00	0.0000	3765.3	
9.1437					
-74.000	3.2808	126.00	0.0000	3859.1	
9.1753					
-73.000	3.2808	127.00	0.0000	3954.5	
9.2111					
-72.000	3.2808	128.00	0.0000	4051.5	
9.2515					
-71.000	3.2808	129.00	0.0000	4149.8	
9.2968					
-70.000	3.2808	130.00	0.0000	4249.6	
9.3474					
-69.000	3.2808	131.00	0.0000	4350.4	
9.4037					
-68.000	3.2808	132.00	0.0000	4452.4	
9.4662					
-67.000	3.2808	133.00	0.0000	4555.1	
9.5352					
-66.000	3.2808	134.00	0.0000	4658.5	
9.6114					
-65.000	3.2808	135.00	0.0000	4762.4	
9.6952					
-64.000	3.2808	136.00	0.0000	4866.5	
9.7873					
-63.000	3.2808	137.00	0.0000	4970.4	
9.8883					
-62.000	3.2808	138.00	0.0000	5074.1	
9.9988					
-61.000	3.2808	139.00	0.0000	5177.0	
10.120					
-60.000	3.2808	140.00	0.0000	5279.0	
10.251					
-59.000	3.2808	141.00	0.0000	5379.6	
10.395					
-58.000	3.2808	142.00	0.0000	5478.4	

10.551					
-57.000	3.2808	143.00	0.0000	5575.0	
10.722					
-56.000	3.2808	144.00	0.0000	5669.0	
10.907					
-55.000	3.2808	145.00	0.0000	5759.9	
11.108					
-54.000	3.2808	146.00	0.0000	5847.2	
11.326					
-53.000	3.2808	147.00	0.0000	5930.5	
11.562					
-52.000	3.2808	148.00	0.0000	6009.3	
11.819					
-51.000	3.2808	149.00	0.0000	6082.9	
12.097					
-50.000	3.2808	150.00	0.0000	6150.9	
12.398					
-49.000	3.2808	151.00	0.0000	6212.8	
12.724					
-48.000	3.2808	152.00	0.0000	6268.1	
13.076					
-47.000	3.2808	153.00	0.0000	6316.2	
13.458					
-46.000	3.2808	154.00	0.0000	6356.6	
13.871					
-45.000	3.2808	155.00	0.0000	6389.0	
14.317					
-44.000	3.2808	156.00	0.0000	6412.8	
14.800					
-43.000	3.2808	157.00	0.0000	6427.7	
15.323					
-42.000	3.2808	158.00	0.0000	6433.4	
15.887					
-41.000	3.2808	159.00	0.0000	6429.6	
16.497					
-40.000	3.2808	160.00	0.0000	6416.0	
17.157					
-39.000	3.2808	161.00	0.0000	6392.6	
17.870					
-38.000	3.2808	162.00	0.0000	6359.2	
18.641					
-37.000	3.2808	163.00	0.0000	6316.0	
19.474					
-36.000	3.2808	164.00	0.0000	6263.0	
20.374					
-35.000	3.2808	165.00	0.0000	6200.4	
21.346					
-34.000	3.2808	166.00	0.0000	6128.7	
22.397					
-33.000	3.2808	167.00	0.0000	6048.1	

23.532					
-32.000	3.2808	168.00	0.0000	5959.3	
24.757					
-31.000	3.2808	169.00	0.0000	5862.8	
26.080					
-30.000	3.2808	170.00	0.0000	5759.4	
27.508					
-29.000	3.2808	171.00	0.0000	5650.0	
29.046					
-28.000	3.2808	172.00	0.0000	5535.4	
30.704					
-27.000	3.2808	173.00	0.0000	5416.8	
32.489					
-26.000	3.2808	174.00	0.0000	5295.2	
34.407					
-25.000	3.2808	175.00	0.0000	5171.8	
36.465					
-24.000	3.2808	176.00	0.0000	5047.9	
38.670					
-23.000	3.2808	177.00	0.0000	4924.6	
41.027					
-22.000	3.2808	178.00	0.0000	4803.4	
43.538					
-21.000	3.2808	179.00	0.0000	4685.4	
46.207					
-20.000	3.2808	180.00	0.0000	4571.9	
49.033					
-19.000	3.2808	181.00	0.0000	4464.2	
52.012					
-18.000	3.2808	182.00	0.0000	4363.1	
55.139					
-17.000	3.2808	183.00	0.0000	4269.7	
58.403					
-16.000	3.2808	184.00	0.0000	4184.7	
61.794					
-15.000	3.2808	185.00	0.0000	4108.7	
65.294					
-14.000	3.2808	186.00	0.0000	4041.9	
68.886					
-13.000	3.2808	187.00	0.0000	3984.3	
72.550					
-12.000	3.2808	188.00	0.0000	3935.9	
76.266					
-11.000	3.2808	189.00	0.0000	3896.1	
80.013					
-10.000	3.2808	190.00	0.0000	3864.3	
83.772					
-9.0000	3.2808	191.00	0.0000	3839.8	
87.526					
-8.0000	3.2808	192.00	0.0000	3821.6	

91.263				
-7.0000	3.2808	193.00	0.0000	3808.7
94.971				
-6.0000	3.2808	194.00	0.0000	3800.1
98.644				
-5.0000	3.2808	195.00	0.0000	3794.8
102.28				
-4.0000	3.2808	196.00	0.0000	3791.9
105.88				
-3.0000	3.2808	197.00	0.0000	3790.5
109.44				
-2.0000	3.2808	198.00	0.0000	3790.0
112.98				
-1.0000	3.2808	199.00	0.0000	3789.9
116.49				
0.0000	3.2808	200.00	0.0000	3789.9
120.00				
1.0000	3.2808	201.00	0.0000	3789.9
123.51				
2.0000	3.2808	202.00	0.0000	3790.0
127.03				
3.0000	3.2808	203.00	0.0000	3790.5
130.56				
4.0000	3.2808	204.00	0.0000	3791.9
134.13				
5.0000	3.2808	205.00	0.0000	3794.8
137.72				
6.0000	3.2808	206.00	0.0000	3800.1
141.36				
7.0000	3.2808	207.00	0.0000	3808.7
145.03				
8.0000	3.2808	208.00	0.0000	3821.6
148.74				
9.0000	3.2808	209.00	0.0000	3839.8
152.48				
10.000	3.2808	210.00	0.0000	3864.3
156.23				
11.000	3.2808	211.00	0.0000	3896.1
159.99				
12.000	3.2808	212.00	0.0000	3935.8
163.74				
13.000	3.2808	213.00	0.0000	3984.3
167.45				
14.000	3.2808	214.00	0.0000	4041.9
171.12				
15.000	3.2808	215.00	0.0000	4108.7
174.71				
16.000	3.2808	216.00	0.0000	4184.8
178.21				
17.000	3.2808	217.00	0.0000	4269.8

-178.40					
18.000	3.2808	218.00	0.0000	4363.2	
-175.14					
19.000	3.2808	219.00	0.0000	4464.2	
-172.01					
20.000	3.2808	220.00	0.0000	4572.0	
-169.03					
21.000	3.2808	221.00	0.0000	4685.5	
-166.20					
22.000	3.2808	222.00	0.0000	4803.5	
-163.54					
23.000	3.2808	223.00	0.0000	4924.7	
-161.02					
24.000	3.2808	224.00	0.0000	5048.0	
-158.67					
25.000	3.2808	225.00	0.0000	5171.9	
-156.46					
26.000	3.2808	226.00	0.0000	5295.3	
-154.40					
27.000	3.2808	227.00	0.0000	5416.9	
-152.49					
28.000	3.2808	228.00	0.0000	5535.5	
-150.70					
29.000	3.2808	229.00	0.0000	5650.1	
-149.04					
30.000	3.2808	230.00	0.0000	5759.5	
-147.51					
31.000	3.2808	231.00	0.0000	5862.8	
-146.08					
32.000	3.2808	232.00	0.0000	5959.3	
-144.76					
33.000	3.2808	233.00	0.0000	6048.1	
-143.53					
34.000	3.2808	234.00	0.0000	6128.7	
-142.40					
35.000	3.2808	235.00	0.0000	6200.5	
-141.35					
36.000	3.2808	236.00	0.0000	6263.0	
-140.37					
37.000	3.2808	237.00	0.0000	6316.0	
-139.47					
38.000	3.2808	238.00	0.0000	6359.2	
-138.64					
39.000	3.2808	239.00	0.0000	6392.5	
-137.87					
40.000	3.2808	240.00	0.0000	6416.0	
-137.16					
41.000	3.2808	241.00	0.0000	6429.5	
-136.50					
42.000	3.2808	242.00	0.0000	6433.3	

-135.89					
43.000	3.2808	243.00	0.0000	6427.6	
-135.32					
44.000	3.2808	244.00	0.0000	6412.7	
-134.80					
45.000	3.2808	245.00	0.0000	6388.9	
-134.32					
46.000	3.2808	246.00	0.0000	6356.5	
-133.87					
47.000	3.2808	247.00	0.0000	6316.1	
-133.46					
48.000	3.2808	248.00	0.0000	6268.0	
-133.08					
49.000	3.2808	249.00	0.0000	6212.7	
-132.72					
50.000	3.2808	250.00	0.0000	6150.8	
-132.40					
51.000	3.2808	251.00	0.0000	6082.8	
-132.10					
52.000	3.2808	252.00	0.0000	6009.1	
-131.82					
53.000	3.2808	253.00	0.0000	5930.4	
-131.56					
54.000	3.2808	254.00	0.0000	5847.1	
-131.33					
55.000	3.2808	255.00	0.0000	5759.8	
-131.11					
56.000	3.2808	256.00	0.0000	5668.9	
-130.91					
57.000	3.2808	257.00	0.0000	5574.9	
-130.72					
58.000	3.2808	258.00	0.0000	5478.3	
-130.55					
59.000	3.2808	259.00	0.0000	5379.5	
-130.39					
60.000	3.2808	260.00	0.0000	5278.9	
-130.25					
61.000	3.2808	261.00	0.0000	5176.9	
-130.12					
62.000	3.2808	262.00	0.0000	5074.0	
-130.00					
63.000	3.2808	263.00	0.0000	4970.4	
-129.89					
64.000	3.2808	264.00	0.0000	4866.4	
-129.79					
65.000	3.2808	265.00	0.0000	4762.3	
-129.70					
66.000	3.2808	266.00	0.0000	4658.5	
-129.61					
67.000	3.2808	267.00	0.0000	4555.1	

-129.54					
68.000	3.2808	268.00	0.0000	4452.3	
-129.47					
69.000	3.2808	269.00	0.0000	4350.4	
-129.40					
70.000	3.2808	270.00	0.0000	4249.5	
-129.35					
71.000	3.2808	271.00	0.0000	4149.8	
-129.30					
72.000	3.2808	272.00	0.0000	4051.4	
-129.25					
73.000	3.2808	273.00	0.0000	3954.5	
-129.21					
74.000	3.2808	274.00	0.0000	3859.0	
-129.18					
75.000	3.2808	275.00	0.0000	3765.3	
-129.14					
76.000	3.2808	276.00	0.0000	3673.2	
-129.12					
77.000	3.2808	277.00	0.0000	3582.8	
-129.09					
78.000	3.2808	278.00	0.0000	3494.3	
-129.07					
79.000	3.2808	279.00	0.0000	3407.6	
-129.05					
80.000	3.2808	280.00	0.0000	3322.7	
-129.04					
81.000	3.2808	281.00	0.0000	3239.8	
-129.03					
82.000	3.2808	282.00	0.0000	3158.7	
-129.02					
83.000	3.2808	283.00	0.0000	3079.6	
-129.01					
84.000	3.2808	284.00	0.0000	3002.3	
-129.00					
85.000	3.2808	285.00	0.0000	2926.9	
-129.00					
86.000	3.2808	286.00	0.0000	2853.5	
-129.00					
87.000	3.2808	287.00	0.0000	2781.8	
-129.00					
88.000	3.2808	288.00	0.0000	2712.1	
-129.00					
89.000	3.2808	289.00	0.0000	2644.1	
-129.00					
90.000	3.2808	290.00	0.0000	2577.9	
-129.01					
91.000	3.2808	291.00	0.0000	2513.5	
-129.01					
92.000	3.2808	292.00	0.0000	2450.8	

-129.02					
93.000	3.2808	293.00	0.0000	2389.9	
-129.03					
94.000	3.2808	294.00	0.0000	2330.5	
-129.03					
95.000	3.2808	295.00	0.0000	2272.9	
-129.04					
96.000	3.2808	296.00	0.0000	2216.8	
-129.05					
97.000	3.2808	297.00	0.0000	2162.2	
-129.06					
98.000	3.2808	298.00	0.0000	2109.2	
-129.07					
99.000	3.2808	299.00	0.0000	2057.6	
-129.08					
100.00	3.2808	300.00	0.0000	2007.5	
-129.09					
101.00	3.2808	301.00	0.0000	1958.9	
-129.11					
102.00	3.2808	302.00	0.0000	1911.5	
-129.12					
103.00	3.2808	303.00	0.0000	1865.5	
-129.13					
104.00	3.2808	304.00	0.0000	1820.9	
-129.14					
105.00	3.2808	305.00	0.0000	1777.4	
-129.15					
106.00	3.2808	306.00	0.0000	1735.2	
-129.17					
107.00	3.2808	307.00	0.0000	1694.2	
-129.18					
108.00	3.2808	308.00	0.0000	1654.3	
-129.19					
109.00	3.2808	309.00	0.0000	1615.6	
-129.20					
110.00	3.2808	310.00	0.0000	1578.0	
-129.22					
111.00	3.2808	311.00	0.0000	1541.4	
-129.23					
112.00	3.2808	312.00	0.0000	1505.8	
-129.24					
113.00	3.2808	313.00	0.0000	1471.3	
-129.25					
114.00	3.2808	314.00	0.0000	1437.7	
-129.26					
115.00	3.2808	315.00	0.0000	1405.0	
-129.28					
116.00	3.2808	316.00	0.0000	1373.3	
-129.29					
117.00	3.2808	317.00	0.0000	1342.4	

-129.30					
118.00	3.2808	318.00	0.0000	1312.4	
-129.31					
119.00	3.2808	319.00	0.0000	1283.2	
-129.32					
120.00	3.2808	320.00	0.0000	1254.8	
-129.33					
121.00	3.2808	321.00	0.0000	1227.2	
-129.34					
122.00	3.2808	322.00	0.0000	1200.4	
-129.35					
123.00	3.2808	323.00	0.0000	1174.2	
-129.36					
124.00	3.2808	324.00	0.0000	1148.8	
-129.37					
125.00	3.2808	325.00	0.0000	1124.1	
-129.38					
126.00	3.2808	326.00	0.0000	1100.1	
-129.38					
127.00	3.2808	327.00	0.0000	1076.6	
-129.39					
128.00	3.2808	328.00	0.0000	1053.9	
-129.40					
129.00	3.2808	329.00	0.0000	1031.7	
-129.41					
130.00	3.2808	330.00	0.0000	1010.1	
-129.41					
131.00	3.2808	331.00	0.0000	989.10	
-129.42					
132.00	3.2808	332.00	0.0000	968.64	
-129.43					
133.00	3.2808	333.00	0.0000	948.71	
-129.43					
134.00	3.2808	334.00	0.0000	929.31	
-129.44					
135.00	3.2808	335.00	0.0000	910.41	
-129.44					
136.00	3.2808	336.00	0.0000	892.00	
-129.45					
137.00	3.2808	337.00	0.0000	874.06	
-129.45					
138.00	3.2808	338.00	0.0000	856.58	
-129.46					
139.00	3.2808	339.00	0.0000	839.56	
-129.46					
140.00	3.2808	340.00	0.0000	822.96	
-129.46					
141.00	3.2808	341.00	0.0000	806.78	
-129.46					
142.00	3.2808	342.00	0.0000	791.01	

-129.47					
143.00	3.2808	343.00	0.0000	775.64	
-129.47					
144.00	3.2808	344.00	0.0000	760.65	
-129.47					
145.00	3.2808	345.00	0.0000	746.03	
-129.47					
146.00	3.2808	346.00	0.0000	731.78	
-129.47					
147.00	3.2808	347.00	0.0000	717.87	
-129.47					
148.00	3.2808	348.00	0.0000	704.31	
-129.47					
149.00	3.2808	349.00	0.0000	691.07	
-129.47					
150.00	3.2808	350.00	0.0000	678.16	
-129.47					
151.00	3.2808	351.00	0.0000	665.56	
-129.47					
152.00	3.2808	352.00	0.0000	653.26	
-129.46					
153.00	3.2808	353.00	0.0000	641.26	
-129.46					
154.00	3.2808	354.00	0.0000	629.54	
-129.46					
155.00	3.2808	355.00	0.0000	618.10	
-129.46					
156.00	3.2808	356.00	0.0000	606.93	
-129.45					
157.00	3.2808	357.00	0.0000	596.02	
-129.45					
158.00	3.2808	358.00	0.0000	585.37	
-129.44					
159.00	3.2808	359.00	0.0000	574.96	
-129.44					
160.00	3.2808	360.00	0.0000	564.80	
-129.43					
161.00	3.2808	361.00	0.0000	554.87	
-129.43					
162.00	3.2808	362.00	0.0000	545.16	
-129.42					
163.00	3.2808	363.00	0.0000	535.68	
-129.42					
164.00	3.2808	364.00	0.0000	526.41	
-129.41					
165.00	3.2808	365.00	0.0000	517.36	
-129.40					
166.00	3.2808	366.00	0.0000	508.50	
-129.40					
167.00	3.2808	367.00	0.0000	499.85	

-129.39					
168.00	3.2808	368.00	0.0000	491.38	
-129.38					
169.00	3.2808	369.00	0.0000	483.11	
-129.37					
170.00	3.2808	370.00	0.0000	475.01	
-129.36					
171.00	3.2808	371.00	0.0000	467.10	
-129.35					
172.00	3.2808	372.00	0.0000	459.35	
-129.34					
173.00	3.2808	373.00	0.0000	451.78	
-129.33					
174.00	3.2808	374.00	0.0000	444.37	
-129.32					
175.00	3.2808	375.00	0.0000	437.12	
-129.31					
176.00	3.2808	376.00	0.0000	430.02	
-129.30					
177.00	3.2808	377.00	0.0000	423.08	
-129.29					
178.00	3.2808	378.00	0.0000	416.28	
-129.28					
179.00	3.2808	379.00	0.0000	409.62	
-129.27					
180.00	3.2808	380.00	0.0000	403.11	
-129.25					
181.00	3.2808	381.00	0.0000	396.73	
-129.24					
182.00	3.2808	382.00	0.0000	390.49	
-129.23					
183.00	3.2808	383.00	0.0000	384.37	
-129.22					
184.00	3.2808	384.00	0.0000	378.38	
-129.20					
185.00	3.2808	385.00	0.0000	372.52	
-129.19					
186.00	3.2808	386.00	0.0000	366.77	
-129.17					
187.00	3.2808	387.00	0.0000	361.14	
-129.16					
188.00	3.2808	388.00	0.0000	355.63	
-129.14					
189.00	3.2808	389.00	0.0000	350.22	
-129.13					
190.00	3.2808	390.00	0.0000	344.93	
-129.11					
191.00	3.2808	391.00	0.0000	339.74	
-129.10					
192.00	3.2808	392.00	0.0000	334.65	

-129.08					
193.00	3.2808	393.00	0.0000	329.66	
-129.06					
194.00	3.2808	394.00	0.0000	324.78	
-129.05					
195.00	3.2808	395.00	0.0000	319.98	
-129.03					
196.00	3.2808	396.00	0.0000	315.29	
-129.01					
197.00	3.2808	397.00	0.0000	310.68	
-129.00					
198.00	3.2808	398.00	0.0000	306.16	
-128.98					
199.00	3.2808	399.00	0.0000	301.73	
-128.96					
200.00	3.2808	400.00	0.0000	297.38	
-128.94					

SES-ENVIRO package - PAGE 59

RUN:

===== ELECTRIC GRADIENT CALCULATION =====

=====

=====

G R A D I E N T O N T H E C O N D U C T O
R S

Line No.	Bundle No. E_total + kV/cm (Peak)	Cond no.	Angle E_total - degrees kV/cm (Peak)	E_ac kV/cm(rms)	E_ac kV/cm(Peak)	E_dc kV/cm
1	1	1	0.0000	13.107989	18.537495	
1	1	1	10.286	13.410660	18.965537	
1	1	1	20.571	13.726968	19.412864	
1	1	1	30.857	14.046060	19.864128	
1	1	1	41.143	14.357458	20.304512	

1	1	1	51.429	14.651425	20.720244
1	1	1	61.714	14.919236	21.098986
1	1	1	72.000	15.153363	21.430091
1	1	1	82.286	15.347570	21.704742
1	1	1	92.571	15.496952	21.915999
1	1	1	102.86	15.597917	22.058785
1	1	1	113.14	15.648156	22.129834
1	1	1	123.43	15.646602	22.127637
1	1	1	133.71	15.593398	22.052395
1	1	1	144.00	15.489883	21.906002
1	1	1	154.29	15.338591	21.692044
1	1	1	164.57	15.143272	21.415820
1	1	1	174.86	14.908900	21.084368
1	1	1	185.14	14.641683	20.706467
1	1	1	195.43	14.349033	20.292597
1	1	1	205.71	14.039476	19.854817
1	1	1	216.00	13.722502	19.406549
1	1	1	226.29	13.408320	18.962228
1	1	1	236.57	13.107528	18.536845
1	1	1	246.86	12.830706	18.145359
1	1	1	257.14	12.587953	17.802054
1	1	1	267.43	12.388402	17.519846
1	1	1	277.71	12.239757	17.309631
1	1	1	288.00	12.147884	17.179702
1	1	1	298.29	12.116486	17.135299
1	1	1	308.57	12.146904	17.178317
1	1	1	318.86	12.238027	17.307184
1	1	1	329.14	12.386346	17.516938
1	1	1	339.43	12.586132	17.799479
1	1	1	349.71	12.829737	18.143988
1	1	1	360.00	13.107989	18.537495

Line No.	Bundle E_total + No. kV/cm (Peak)	Cond no.	Angle E_total - degrees kV/cm (Peak)	E_ac kV/cm(rms)	E_ac kV/cm(Peak)	E_dc kV/cm
----------	--------------------------------------	----------	--	--------------------	---------------------	---------------

1	1	2	0.0000	13.160219	18.611360
1	1	2	10.286	12.878045	18.212305
1	1	2	20.571	12.630679	17.862478
1	1	2	30.857	12.427413	17.575016
1	1	2	41.143	12.276000	17.360886
1	1	2	51.429	12.182264	17.228323
1	1	2	61.714	12.149792	17.182401
1	1	2	72.000	12.179755	17.224775
1	1	2	82.286	12.270858	17.353614
1	1	2	92.571	12.419419	17.563711
1	1	2	102.86	12.619577	17.846777
1	1	2	113.14	12.863613	18.191896

1	1	2	123.43	13.142356	18.586098
1	1	2	133.71	13.445652	19.015023
1	1	2	144.00	13.762846	19.463604
1	1	2	154.29	14.083249	19.916722
1	1	2	164.57	14.396545	20.359789
1	1	2	174.86	14.693126	20.779218
1	1	2	185.14	14.964337	21.162769
1	1	2	195.43	15.202638	21.499777
1	1	2	205.71	15.401691	21.781280
1	1	2	216.00	15.556393	22.000061
1	1	2	226.29	15.662883	22.150661
1	1	2	236.57	15.718525	22.229351
1	1	2	246.86	15.721898	22.234121
1	1	2	257.14	15.672798	22.164683
1	1	2	267.43	15.572254	22.022493
1	1	2	277.71	15.422563	21.810798
1	1	2	288.00	15.227328	21.534693
1	1	2	298.29	14.991491	21.201170
1	1	2	308.57	14.721347	20.819128
1	1	2	318.86	14.424503	20.399328
1	1	2	329.14	14.109782	19.954245
1	1	2	339.43	13.787032	19.497808
1	1	2	349.71	13.466852	19.045004
1	1	2	360.00	13.160219	18.611360

Line No.	Bundle E_total + No. kV/cm (Peak)	Cond no.	Angle E_total - degrees kV/cm (Peak)	E_ac kV/cm(rms)	E_ac kV/cm(Peak)	E_dc kV/cm
----------	-----------------------------------	----------	--------------------------------------	-----------------	------------------	------------

1	1	3	0.0000	16.109977	22.782948
1	1	3	10.286	16.080127	22.740733
1	1	3	20.571	15.995139	22.620543
1	1	3	30.857	15.857088	22.425309
1	1	3	41.143	15.669400	22.159878
1	1	3	51.429	15.436869	21.831029
1	1	3	61.714	15.165656	21.447477
1	1	3	72.000	14.863260	21.019824
1	1	3	82.286	14.538432	20.560447
1	1	3	92.571	14.201025	20.083282
1	1	3	102.86	13.861759	19.603488
1	1	3	113.14	13.531893	19.136986
1	1	3	123.43	13.222813	18.699881
1	1	3	133.71	12.945565	18.307794
1	1	3	144.00	12.710350	17.975150
1	1	3	154.29	12.526025	17.714474
1	1	3	164.57	12.399655	17.535761
1	1	3	174.86	12.336150	17.445951
1	1	3	185.14	12.338002	17.448569

1	1	3	195.43	12.405155	17.543539
1	1	3	205.71	12.535008	17.727178
1	1	3	216.00	12.722545	17.992396
1	1	3	226.29	12.960601	18.329058
1	1	3	236.57	13.240228	18.724509
1	1	3	246.86	13.551144	19.164212
1	1	3	257.14	13.882242	19.632455
1	1	3	267.43	14.222087	20.113068
1	1	3	277.71	14.559395	20.590093
1	1	3	288.00	14.883443	21.048366
1	1	3	298.29	15.184397	21.473981
1	1	3	308.57	15.453550	21.854620
1	1	3	318.86	15.683467	22.179772
1	1	3	329.14	15.868072	22.440843
1	1	3	339.43	16.002673	22.631198
1	1	3	349.71	16.083958	22.746152
1	1	3	360.00	16.109977	22.782948

Line No.	Bundle E_total + No. kV/cm (Peak)	Cond no.	Angle E_total - degrees kV/cm (Peak)	E_ac kV/cm(rms)	E_ac kV/cm(Peak)	E_dc kV/cm
----------	-----------------------------------	----------	--------------------------------------	-----------------	------------------	------------

1	2	4	0.0000	14.226797	20.119729
1	2	4	10.286	14.556825	20.586460
1	2	4	20.571	14.904050	21.077510
1	2	4	30.857	15.256605	21.576097
1	2	4	41.143	15.602955	22.065910
1	2	4	51.429	15.932294	22.531667
1	2	4	61.714	16.234848	22.959543
1	2	4	72.000	16.502078	23.337462
1	2	4	82.286	16.726796	23.655262
1	2	4	92.571	16.903220	23.904763
1	2	4	102.86	17.026974	24.079778
1	2	4	113.14	17.095070	24.176080
1	2	4	123.43	17.105883	24.191371
1	2	4	133.71	17.059135	24.125261
1	2	4	144.00	16.955898	23.979261
1	2	4	154.29	16.798608	23.756820
1	2	4	164.57	16.591095	23.463352
1	2	4	174.86	16.338612	23.106287
1	2	4	185.14	16.047841	22.695075
1	2	4	195.43	15.726865	22.241146
1	2	4	205.71	15.385072	21.757778
1	2	4	216.00	15.032979	21.259842
1	2	4	226.29	14.681959	20.763425
1	2	4	236.57	14.343869	20.285294
1	2	4	246.86	14.030595	19.842257
1	2	4	257.14	13.753526	19.450423

1	2	4	267.43	13.523020	19.124438
1	2	4	277.71	13.347877	18.876748
1	2	4	288.00	13.234884	18.716953
1	2	4	298.29	13.188457	18.651295
1	2	4	308.57	13.210406	18.682336
1	2	4	318.86	13.299840	18.808814
1	2	4	329.14	13.453220	19.025726
1	2	4	339.43	13.664547	19.324588
1	2	4	349.71	13.925687	19.693896
1	2	4	360.00	14.226797	20.119729

Line No.	Bundle E_total + No. kV/cm (Peak)	Cond no.	Angle E_total - degrees kV/cm (Peak)	E_ac kV/cm(rms)	E_ac kV/cm(Peak)	E_dc kV/cm
----------	--------------------------------------	----------	--	--------------------	---------------------	---------------

1	2	5	0.0000	14.230967	20.125626
1	2	5	10.286	13.929545	19.699351
1	2	5	20.571	13.668103	19.329617
1	2	5	30.857	13.456496	19.030359
1	2	5	41.143	13.302866	18.813093
1	2	5	51.429	13.213218	18.686312
1	2	5	61.714	13.191099	18.655031
1	2	5	72.000	13.237404	18.720516
1	2	5	82.286	13.350326	18.880212
1	2	5	92.571	13.525453	19.127879
1	2	5	102.86	13.755996	19.453917
1	2	5	113.14	14.033156	19.845879
1	2	5	123.43	14.346571	20.289115
1	2	5	133.71	14.684848	20.767511
1	2	5	144.00	15.036096	21.264251
1	2	5	154.29	15.388451	21.762556
1	2	5	164.57	15.730533	22.246332
1	2	5	174.86	16.051814	22.700693
1	2	5	185.14	16.342898	23.112348
1	2	5	195.43	16.595691	23.469852
1	2	5	205.71	16.803502	23.763741
1	2	5	216.00	16.961068	23.986572
1	2	5	226.29	17.064548	24.132916
1	2	5	236.57	17.111499	24.199314
1	2	5	246.86	17.100843	24.184244
1	2	5	257.14	17.032851	24.088089
1	2	5	267.43	16.909145	23.913142
1	2	5	277.71	16.732710	23.663626
1	2	5	288.00	16.507924	23.345731
1	2	5	298.29	16.240572	22.967637
1	2	5	308.57	15.937844	22.539515
1	2	5	318.86	15.608285	22.073448
1	2	5	329.14	15.261678	21.583272

1	2	5	339.43	14.908838	21.084281
1	2	5	349.71	14.561308	20.592800
1	2	5	360.00	14.230967	20.125626

SES-ENVIRO package - PAGE 60

RUN:

M A X I M U M G R A D I E N T O F E A
C H C O N D U C T O R

MAXIMUM AC (rms)

GRADIENTS

Angle_max	Lin Angle_min	Bun	Con	E_mean	E_max	E_min
Degrees	Degrees			kV/cm	kV/cm	kV/cm
117.98	298.37	1	1	13.885	15.654	12.116
242.38	61.919	1	1	13.938	15.727	12.150
359.65	179.71	1	1	14.219	16.110	12.329
120.21	300.13	1	2	15.148	17.109	13.187
239.81	59.892	1	2	15.152	17.114	13.190
359.97	179.98	1	2	15.162	17.131	13.193
122.48	301.98	1	3	14.088	15.931	12.245
237.94	58.347	1	3	14.140	16.001	12.279
359.58	179.67	1	3	13.815	15.559	12.071
223.95	44.367	1	901	4.6612	4.7319	4.5905

316.05	135.63	1 902	11	4.6613	4.7321	4.5906
--------	--------	-------	----	--------	--------	--------

PEAK AC GRADIENTS

Angle_max	Angle_min	Lin	Bun	Con	E_mean	E_max	E_min
Degrees	Degrees				kV/cm	kV/cm	kV/cm
-----	-----	-----	-----	-----	-----	-----	-----
117.98	298.37	1	1	1	19.637	22.138	17.135
242.38	61.919	1	1	2	19.712	22.241	17.182
359.65	179.71	1	1	3	20.109	22.783	17.436
120.21	300.13	1	2	4	21.423	24.195	18.650
239.81	59.892	1	2	5	21.428	24.203	18.654
359.97	179.98	1	2	6	21.442	24.227	18.657
122.48	301.98	1	3	7	19.924	22.530	17.318
237.94	58.347	1	3	8	19.997	22.628	17.365
359.58	179.67	1	3	9	19.537	22.004	17.071
223.95	44.367	1 901		10	6.5920	6.6920	6.4919
316.05	135.63	1 902		11	6.5921	6.6921	6.4921

SES-ENVIRO package - PAGE 61

RUN:

SES-ENVIRO package - PAGE 62

RUN:

RUN:

===== R A D I O N O I S E P R O F I L E S =

=====

=====

Profile No. 1

NUMBER OF POINTS : 401
COORDINATES OF ORIGIN OF PROFILE:
Yo = -200.00 feet
Zo = 9.9000 feet
COORDINATES OF END OF PROFILE:
Ye = 200.00 feet
Ze = 9.9000 feet

Calculation of the AC radio noise level by an empirical method.

Weather conditions: HEAVY RAIN

BPA empirical method

Radio Interference Profile no. 1 (A.C. Line)

Points Y Z Distance RI_E a.c.

RI_H a.c. dB/(1uV/m)	No.	feet	feet	feet	dB/(1uV/m)
NA	1	-200.000	9.90000	0.00000	63.1842
NA	2	-199.000	9.90000	1.00000	63.2627
NA	3	-198.000	9.90000	2.00000	63.3416
NA	4	-197.000	9.90000	3.00000	63.4211
NA	5	-196.000	9.90000	4.00000	63.5010
NA	6	-195.000	9.90000	5.00000	63.5815
NA	7	-194.000	9.90000	6.00000	63.6624
NA	8	-193.000	9.90000	7.00000	63.7438
NA	9	-192.000	9.90000	8.00000	63.8257
NA	10	-191.000	9.90000	9.00000	63.9082
NA	11	-190.000	9.90000	10.0000	63.9911
NA	12	-189.000	9.90000	11.0000	64.0746
NA	13	-188.000	9.90000	12.0000	64.1586
NA	14	-187.000	9.90000	13.0000	64.2431
NA	15	-186.000	9.90000	14.0000	64.3282
NA	16	-185.000	9.90000	15.0000	64.4138
NA	17	-184.000	9.90000	16.0000	64.4999
NA	18	-183.000	9.90000	17.0000	64.5866
NA	19	-182.000	9.90000	18.0000	64.6739
NA	20	-181.000	9.90000	19.0000	64.7617
NA	21	-180.000	9.90000	20.0000	64.8500
NA	22	-179.000	9.90000	21.0000	64.9390
NA	23	-178.000	9.90000	22.0000	65.0285

NA	24	-177.000	9.90000	23.0000	65.1186
NA	25	-176.000	9.90000	24.0000	65.2093
NA	26	-175.000	9.90000	25.0000	65.3005
NA	27	-174.000	9.90000	26.0000	65.3924
NA	28	-173.000	9.90000	27.0000	65.4849
NA	29	-172.000	9.90000	28.0000	65.5779
NA	30	-171.000	9.90000	29.0000	65.6716
NA	31	-170.000	9.90000	30.0000	65.7660
NA	32	-169.000	9.90000	31.0000	65.8609
NA	33	-168.000	9.90000	32.0000	65.9565
NA	34	-167.000	9.90000	33.0000	66.0527
NA	35	-166.000	9.90000	34.0000	66.1496
NA	36	-165.000	9.90000	35.0000	66.2471
NA	37	-164.000	9.90000	36.0000	66.3453
NA	38	-163.000	9.90000	37.0000	66.4441
NA	39	-162.000	9.90000	38.0000	66.5436
NA	40	-161.000	9.90000	39.0000	66.6438
NA	41	-160.000	9.90000	40.0000	66.7446
NA	42	-159.000	9.90000	41.0000	66.8462
NA	43	-158.000	9.90000	42.0000	66.9485
NA	44	-157.000	9.90000	43.0000	67.0514
NA	45	-156.000	9.90000	44.0000	67.1551
NA	46	-155.000	9.90000	45.0000	67.2595
NA	47	-154.000	9.90000	46.0000	67.3646
NA	48	-153.000	9.90000	47.0000	67.4704

NA					
	49	-152.000	9.90000	48.0000	67.5770
NA					
	50	-151.000	9.90000	49.0000	67.6843
NA					
	51	-150.000	9.90000	50.0000	67.7924
NA					
	52	-149.000	9.90000	51.0000	67.9012
NA					
	53	-148.000	9.90000	52.0000	68.0108
NA					
	54	-147.000	9.90000	53.0000	68.1212
NA					
	55	-146.000	9.90000	54.0000	68.2323
NA					
	56	-145.000	9.90000	55.0000	68.3443
NA					
	57	-144.000	9.90000	56.0000	68.4570
NA					
	58	-143.000	9.90000	57.0000	68.5705
NA					
	59	-142.000	9.90000	58.0000	68.6849
NA					
	60	-141.000	9.90000	59.0000	68.8000
NA					
	61	-140.000	9.90000	60.0000	68.9160
NA					
	62	-139.000	9.90000	61.0000	69.0329
NA					
	63	-138.000	9.90000	62.0000	69.1505
NA					
	64	-137.000	9.90000	63.0000	69.2690
NA					
	65	-136.000	9.90000	64.0000	69.3884
NA					
	66	-135.000	9.90000	65.0000	69.5086
NA					
	67	-134.000	9.90000	66.0000	69.6297
NA					
	68	-133.000	9.90000	67.0000	69.7517
NA					
	69	-132.000	9.90000	68.0000	69.8745
NA					
	70	-131.000	9.90000	69.0000	69.9983
NA					
	71	-130.000	9.90000	70.0000	70.1229
NA					
	72	-129.000	9.90000	71.0000	70.2485
NA					
	73	-128.000	9.90000	72.0000	70.3749

NA	74	-127.000	9.90000	73.0000	70.5023
NA	75	-126.000	9.90000	74.0000	70.6306
NA	76	-125.000	9.90000	75.0000	70.7599
NA	77	-124.000	9.90000	76.0000	70.8901
NA	78	-123.000	9.90000	77.0000	71.0212
NA	79	-122.000	9.90000	78.0000	71.1533
NA	80	-121.000	9.90000	79.0000	71.2864
NA	81	-120.000	9.90000	80.0000	71.4204
NA	82	-119.000	9.90000	81.0000	71.5554
NA	83	-118.000	9.90000	82.0000	71.6914
NA	84	-117.000	9.90000	83.0000	71.8283
NA	85	-116.000	9.90000	84.0000	71.9663
NA	86	-115.000	9.90000	85.0000	72.1052
NA	87	-114.000	9.90000	86.0000	72.2452
NA	88	-113.000	9.90000	87.0000	72.3861
NA	89	-112.000	9.90000	88.0000	72.5281
NA	90	-111.000	9.90000	89.0000	72.6711
NA	91	-110.000	9.90000	90.0000	72.8151
NA	92	-109.000	9.90000	91.0000	72.9601
NA	93	-108.000	9.90000	92.0000	73.1061
NA	94	-107.000	9.90000	93.0000	73.2532
NA	95	-106.000	9.90000	94.0000	73.4012
NA	96	-105.000	9.90000	95.0000	73.5503
NA	97	-104.000	9.90000	96.0000	73.7005
NA	98	-103.000	9.90000	97.0000	73.8516

NA					
	99	-102.0000	9.900000	98.0000	74.0038
NA					
	100	-101.0000	9.900000	99.0000	74.1570
NA					
	101	-100.0000	9.900000	100.0000	74.3112
NA					
	102	-99.0000	9.900000	101.0000	74.4664
NA					
	103	-98.0000	9.900000	102.0000	74.6226
NA					
	104	-97.0000	9.900000	103.0000	74.7799
NA					
	105	-96.0000	9.900000	104.0000	74.9381
NA					
	106	-95.0000	9.900000	105.0000	75.0973
NA					
	107	-94.0000	9.900000	106.0000	75.2574
NA					
	108	-93.0000	9.900000	107.0000	75.4186
NA					
	109	-92.0000	9.900000	108.0000	75.5806
NA					
	110	-91.0000	9.900000	109.0000	75.7436
NA					
	111	-90.0000	9.900000	110.0000	75.9075
NA					
	112	-89.0000	9.900000	111.0000	76.0723
NA					
	113	-88.0000	9.900000	112.0000	76.2380
NA					
	114	-87.0000	9.900000	113.0000	76.4045
NA					
	115	-86.0000	9.900000	114.0000	76.5719
NA					
	116	-85.0000	9.900000	115.0000	76.7400
NA					
	117	-84.0000	9.900000	116.0000	76.9090
NA					
	118	-83.0000	9.900000	117.0000	77.0786
NA					
	119	-82.0000	9.900000	118.0000	77.2489
NA					
	120	-81.0000	9.900000	119.0000	77.4199
NA					
	121	-80.0000	9.900000	120.0000	77.5916
NA					
	122	-79.0000	9.900000	121.0000	77.7637
NA					
	123	-78.0000	9.900000	122.0000	77.9364

NA	124	-77.0000	9.90000	123.000	78.1096
NA	125	-76.0000	9.90000	124.000	78.2832
NA	126	-75.0000	9.90000	125.000	78.4571
NA	127	-74.0000	9.90000	126.000	78.6314
NA	128	-73.0000	9.90000	127.000	78.8058
NA	129	-72.0000	9.90000	128.000	78.9804
NA	130	-71.0000	9.90000	129.000	79.1551
NA	131	-70.0000	9.90000	130.000	79.3298
NA	132	-69.0000	9.90000	131.000	79.5043
NA	133	-68.0000	9.90000	132.000	79.6787
NA	134	-67.0000	9.90000	133.000	79.8528
NA	135	-66.0000	9.90000	134.000	80.0265
NA	136	-65.0000	9.90000	135.000	80.1997
NA	137	-64.0000	9.90000	136.000	80.3723
NA	138	-63.0000	9.90000	137.000	80.5441
NA	139	-62.0000	9.90000	138.000	80.7152
NA	140	-61.0000	9.90000	139.000	80.8852
NA	141	-60.0000	9.90000	140.000	81.0542
NA	142	-59.0000	9.90000	141.000	81.2219
NA	143	-58.0000	9.90000	142.000	81.3883
NA	144	-57.0000	9.90000	143.000	81.5531
NA	145	-56.0000	9.90000	144.000	81.7163
NA	146	-55.0000	9.90000	145.000	81.8776
NA	147	-54.0000	9.90000	146.000	82.0370
NA	148	-53.0000	9.90000	147.000	82.1942

NA	149	-52.0000	9.90000	148.000	82.3492
NA	150	-51.0000	9.90000	149.000	82.5017
NA	151	-50.0000	9.90000	150.000	82.6516
NA	152	-49.0000	9.90000	151.000	82.7987
NA	153	-48.0000	9.90000	152.000	82.9429
NA	154	-47.0000	9.90000	153.000	83.0839
NA	155	-46.0000	9.90000	154.000	83.2218
NA	156	-45.0000	9.90000	155.000	83.3562
NA	157	-44.0000	9.90000	156.000	83.4870
NA	158	-43.0000	9.90000	157.000	83.6142
NA	159	-42.0000	9.90000	158.000	83.7375
NA	160	-41.0000	9.90000	159.000	83.8568
NA	161	-40.0000	9.90000	160.000	83.9720
NA	162	-39.0000	9.90000	161.000	84.0829
NA	163	-38.0000	9.90000	162.000	84.1895
NA	164	-37.0000	9.90000	163.000	84.2915
NA	165	-36.0000	9.90000	164.000	84.3890
NA	166	-35.0000	9.90000	165.000	84.4819
NA	167	-34.0000	9.90000	166.000	84.5699
NA	168	-33.0000	9.90000	167.000	84.6531
NA	169	-32.0000	9.90000	168.000	84.7314
NA	170	-31.0000	9.90000	169.000	84.8047
NA	171	-30.0000	9.90000	170.000	84.8730
NA	172	-29.0000	9.90000	171.000	84.9361
NA	173	-28.0000	9.90000	172.000	84.9941

NA	174	-27.0000	9.90000	173.000	85.0470
NA	175	-26.0000	9.90000	174.000	85.0946
NA	176	-25.0000	9.90000	175.000	85.1370
NA	177	-24.0000	9.90000	176.000	85.1742
NA	178	-23.0000	9.90000	177.000	85.2974
NA	179	-22.0000	9.90000	178.000	85.4466
NA	180	-21.0000	9.90000	179.000	85.5916
NA	181	-20.0000	9.90000	180.000	85.7322
NA	182	-19.0000	9.90000	181.000	85.8681
NA	183	-18.0000	9.90000	182.000	85.9991
NA	184	-17.0000	9.90000	183.000	86.1249
NA	185	-16.0000	9.90000	184.000	86.2453
NA	186	-15.0000	9.90000	185.000	86.3600
NA	187	-14.0000	9.90000	186.000	86.4686
NA	188	-13.0000	9.90000	187.000	86.5711
NA	189	-12.0000	9.90000	188.000	86.6671
NA	190	-11.0000	9.90000	189.000	86.7563
NA	191	-10.0000	9.90000	190.000	86.8387
NA	192	-9.00000	9.90000	191.000	86.9138
NA	193	-8.00000	9.90000	192.000	86.9817
NA	194	-7.00000	9.90000	193.000	87.0420
NA	195	-6.00000	9.90000	194.000	87.0946
NA	196	-5.00000	9.90000	195.000	87.1394
NA	197	-4.00000	9.90000	196.000	87.1762
NA	198	-3.00000	9.90000	197.000	87.2049

NA	199	-2.00000	9.90000	198.000	87.2255
NA	200	-1.00000	9.90000	199.000	87.2379
NA	201	0.00000	9.90000	200.000	87.2420
NA	202	1.00000	9.90000	201.000	87.2379
NA	203	2.00000	9.90000	202.000	87.2255
NA	204	3.00000	9.90000	203.000	87.2049
NA	205	4.00000	9.90000	204.000	87.1762
NA	206	5.00000	9.90000	205.000	87.1394
NA	207	6.00000	9.90000	206.000	87.0946
NA	208	7.00000	9.90000	207.000	87.0420
NA	209	8.00000	9.90000	208.000	86.9817
NA	210	9.00000	9.90000	209.000	86.9138
NA	211	10.0000	9.90000	210.000	86.8387
NA	212	11.0000	9.90000	211.000	86.7563
NA	213	12.0000	9.90000	212.000	86.6671
NA	214	13.0000	9.90000	213.000	86.5711
NA	215	14.0000	9.90000	214.000	86.4686
NA	216	15.0000	9.90000	215.000	86.3600
NA	217	16.0000	9.90000	216.000	86.2453
NA	218	17.0000	9.90000	217.000	86.1249
NA	219	18.0000	9.90000	218.000	85.9991
NA	220	19.0000	9.90000	219.000	85.8681
NA	221	20.0000	9.90000	220.000	85.7322
NA	222	21.0000	9.90000	221.000	85.5916
NA	223	22.0000	9.90000	222.000	85.4466

NA	224	23.0000	9.90000	223.000	85.2974
NA	225	24.0000	9.90000	224.000	85.1741
NA	226	25.0000	9.90000	225.000	85.1369
NA	227	26.0000	9.90000	226.000	85.0945
NA	228	27.0000	9.90000	227.000	85.0469
NA	229	28.0000	9.90000	228.000	84.9941
NA	230	29.0000	9.90000	229.000	84.9360
NA	231	30.0000	9.90000	230.000	84.8729
NA	232	31.0000	9.90000	231.000	84.8046
NA	233	32.0000	9.90000	232.000	84.7313
NA	234	33.0000	9.90000	233.000	84.6531
NA	235	34.0000	9.90000	234.000	84.5699
NA	236	35.0000	9.90000	235.000	84.4818
NA	237	36.0000	9.90000	236.000	84.3890
NA	238	37.0000	9.90000	237.000	84.2915
NA	239	38.0000	9.90000	238.000	84.1894
NA	240	39.0000	9.90000	239.000	84.0828
NA	241	40.0000	9.90000	240.000	83.9719
NA	242	41.0000	9.90000	241.000	83.8567
NA	243	42.0000	9.90000	242.000	83.7374
NA	244	43.0000	9.90000	243.000	83.6141
NA	245	44.0000	9.90000	244.000	83.4870
NA	246	45.0000	9.90000	245.000	83.3561
NA	247	46.0000	9.90000	246.000	83.2217
NA	248	47.0000	9.90000	247.000	83.0839

NA	249	48.0000	9.90000	248.000	82.9428
NA	250	49.0000	9.90000	249.000	82.7986
NA	251	50.0000	9.90000	250.000	82.6515
NA	252	51.0000	9.90000	251.000	82.5016
NA	253	52.0000	9.90000	252.000	82.3491
NA	254	53.0000	9.90000	253.000	82.1942
NA	255	54.0000	9.90000	254.000	82.0369
NA	256	55.0000	9.90000	255.000	81.8776
NA	257	56.0000	9.90000	256.000	81.7162
NA	258	57.0000	9.90000	257.000	81.5531
NA	259	58.0000	9.90000	258.000	81.3882
NA	260	59.0000	9.90000	259.000	81.2219
NA	261	60.0000	9.90000	260.000	81.0541
NA	262	61.0000	9.90000	261.000	80.8852
NA	263	62.0000	9.90000	262.000	80.7151
NA	264	63.0000	9.90000	263.000	80.5441
NA	265	64.0000	9.90000	264.000	80.3722
NA	266	65.0000	9.90000	265.000	80.1996
NA	267	66.0000	9.90000	266.000	80.0264
NA	268	67.0000	9.90000	267.000	79.8527
NA	269	68.0000	9.90000	268.000	79.6786
NA	270	69.0000	9.90000	269.000	79.5042
NA	271	70.0000	9.90000	270.000	79.3297
NA	272	71.0000	9.90000	271.000	79.1550
NA	273	72.0000	9.90000	272.000	78.9804

NA	274	73.0000	9.90000	273.000	78.8058
NA	275	74.0000	9.90000	274.000	78.6313
NA	276	75.0000	9.90000	275.000	78.4571
NA	277	76.0000	9.90000	276.000	78.2831
NA	278	77.0000	9.90000	277.000	78.1095
NA	279	78.0000	9.90000	278.000	77.9364
NA	280	79.0000	9.90000	279.000	77.7637
NA	281	80.0000	9.90000	280.000	77.5915
NA	282	81.0000	9.90000	281.000	77.4199
NA	283	82.0000	9.90000	282.000	77.2489
NA	284	83.0000	9.90000	283.000	77.0785
NA	285	84.0000	9.90000	284.000	76.9089
NA	286	85.0000	9.90000	285.000	76.7400
NA	287	86.0000	9.90000	286.000	76.5718
NA	288	87.0000	9.90000	287.000	76.4045
NA	289	88.0000	9.90000	288.000	76.2380
NA	290	89.0000	9.90000	289.000	76.0723
NA	291	90.0000	9.90000	290.000	75.9075
NA	292	91.0000	9.90000	291.000	75.7436
NA	293	92.0000	9.90000	292.000	75.5806
NA	294	93.0000	9.90000	293.000	75.4185
NA	295	94.0000	9.90000	294.000	75.2574
NA	296	95.0000	9.90000	295.000	75.0972
NA	297	96.0000	9.90000	296.000	74.9380
NA	298	97.0000	9.90000	297.000	74.7798

NA	299	98.0000	9.90000	298.000	74.6226
NA	300	99.0000	9.90000	299.000	74.4663
NA	301	100.000	9.90000	300.000	74.3111
NA	302	101.000	9.90000	301.000	74.1569
NA	303	102.000	9.90000	302.000	74.0037
NA	304	103.000	9.90000	303.000	73.8516
NA	305	104.000	9.90000	304.000	73.7004
NA	306	105.000	9.90000	305.000	73.5503
NA	307	106.000	9.90000	306.000	73.4012
NA	308	107.000	9.90000	307.000	73.2531
NA	309	108.000	9.90000	308.000	73.1060
NA	310	109.000	9.90000	309.000	72.9600
NA	311	110.000	9.90000	310.000	72.8150
NA	312	111.000	9.90000	311.000	72.6710
NA	313	112.000	9.90000	312.000	72.5280
NA	314	113.000	9.90000	313.000	72.3861
NA	315	114.000	9.90000	314.000	72.2451
NA	316	115.000	9.90000	315.000	72.1051
NA	317	116.000	9.90000	316.000	71.9662
NA	318	117.000	9.90000	317.000	71.8282
NA	319	118.000	9.90000	318.000	71.6913
NA	320	119.000	9.90000	319.000	71.5553
NA	321	120.000	9.90000	320.000	71.4203
NA	322	121.000	9.90000	321.000	71.2863
NA	323	122.000	9.90000	322.000	71.1532

NA					
	324	123.000	9.90000	323.000	71.0211
NA					
	325	124.000	9.90000	324.000	70.8900
NA					
	326	125.000	9.90000	325.000	70.7598
NA					
	327	126.000	9.90000	326.000	70.6306
NA					
	328	127.000	9.90000	327.000	70.5022
NA					
	329	128.000	9.90000	328.000	70.3749
NA					
	330	129.000	9.90000	329.000	70.2484
NA					
	331	130.000	9.90000	330.000	70.1228
NA					
	332	131.000	9.90000	331.000	69.9982
NA					
	333	132.000	9.90000	332.000	69.8744
NA					
	334	133.000	9.90000	333.000	69.7516
NA					
	335	134.000	9.90000	334.000	69.6296
NA					
	336	135.000	9.90000	335.000	69.5085
NA					
	337	136.000	9.90000	336.000	69.3883
NA					
	338	137.000	9.90000	337.000	69.2689
NA					
	339	138.000	9.90000	338.000	69.1504
NA					
	340	139.000	9.90000	339.000	69.0328
NA					
	341	140.000	9.90000	340.000	68.9160
NA					
	342	141.000	9.90000	341.000	68.8000
NA					
	343	142.000	9.90000	342.000	68.6848
NA					
	344	143.000	9.90000	343.000	68.5705
NA					
	345	144.000	9.90000	344.000	68.4569
NA					
	346	145.000	9.90000	345.000	68.3442
NA					
	347	146.000	9.90000	346.000	68.2323
NA					
	348	147.000	9.90000	347.000	68.1211

NA	349	148.000	9.90000	348.000	68.0107
NA	350	149.000	9.90000	349.000	67.9011
NA	351	150.000	9.90000	350.000	67.7923
NA	352	151.000	9.90000	351.000	67.6842
NA	353	152.000	9.90000	352.000	67.5769
NA	354	153.000	9.90000	353.000	67.4703
NA	355	154.000	9.90000	354.000	67.3645
NA	356	155.000	9.90000	355.000	67.2594
NA	357	156.000	9.90000	356.000	67.1550
NA	358	157.000	9.90000	357.000	67.0513
NA	359	158.000	9.90000	358.000	66.9484
NA	360	159.000	9.90000	359.000	66.8461
NA	361	160.000	9.90000	360.000	66.7446
NA	362	161.000	9.90000	361.000	66.6437
NA	363	162.000	9.90000	362.000	66.5435
NA	364	163.000	9.90000	363.000	66.4440
NA	365	164.000	9.90000	364.000	66.3452
NA	366	165.000	9.90000	365.000	66.2470
NA	367	166.000	9.90000	366.000	66.1495
NA	368	167.000	9.90000	367.000	66.0526
NA	369	168.000	9.90000	368.000	65.9564
NA	370	169.000	9.90000	369.000	65.8608
NA	371	170.000	9.90000	370.000	65.7659
NA	372	171.000	9.90000	371.000	65.6716
NA	373	172.000	9.90000	372.000	65.5779

NA	374	173.000	9.90000	373.000	65.4848
NA	375	174.000	9.90000	374.000	65.3923
NA	376	175.000	9.90000	375.000	65.3005
NA	377	176.000	9.90000	376.000	65.2092
NA	378	177.000	9.90000	377.000	65.1185
NA	379	178.000	9.90000	378.000	65.0284
NA	380	179.000	9.90000	379.000	64.9389
NA	381	180.000	9.90000	380.000	64.8500
NA	382	181.000	9.90000	381.000	64.7616
NA	383	182.000	9.90000	382.000	64.6738
NA	384	183.000	9.90000	383.000	64.5865
NA	385	184.000	9.90000	384.000	64.4999
NA	386	185.000	9.90000	385.000	64.4137
NA	387	186.000	9.90000	386.000	64.3281
NA	388	187.000	9.90000	387.000	64.2431
NA	389	188.000	9.90000	388.000	64.1585
NA	390	189.000	9.90000	389.000	64.0745
NA	391	190.000	9.90000	390.000	63.9911
NA	392	191.000	9.90000	391.000	63.9081
NA	393	192.000	9.90000	392.000	63.8257
NA	394	193.000	9.90000	393.000	63.7437
NA	395	194.000	9.90000	394.000	63.6623
NA	396	195.000	9.90000	395.000	63.5814
NA	397	196.000	9.90000	396.000	63.5010
NA	398	197.000	9.90000	397.000	63.4210

NA	399	198.000	9.90000	398.000	63.3416
NA	400	199.000	9.90000	399.000	63.2626
NA	401	200.000	9.90000	400.000	63.1841

SES-ENVIRO package - PAGE 67

RUN:

Calculation of the AC radio noise level by an empirical method.

Weather conditions: L50 RAIN (wet conductors)

BPA empirical method

		Radio Interference Profile no. 1 (A.C. Line)			
RI_H a.c.	Points	Y	Z	Distance	RI_E a.c.
dB/(1uV/m)	No.	feet	feet	feet	dB/(1uV/m)

NA	1	-200.000	9.90000	0.00000	59.6842
NA	2	-199.000	9.90000	1.00000	59.7627
NA	3	-198.000	9.90000	2.00000	59.8416
NA	4	-197.000	9.90000	3.00000	59.9211
NA	5	-196.000	9.90000	4.00000	60.0010
NA	6	-195.000	9.90000	5.00000	60.0815
NA	7	-194.000	9.90000	6.00000	60.1624
NA	8	-193.000	9.90000	7.00000	60.2438

NA	9	-192.000	9.90000	8.00000	60.3257
NA	10	-191.000	9.90000	9.00000	60.4082
NA	11	-190.000	9.90000	10.0000	60.4911
NA	12	-189.000	9.90000	11.0000	60.5746
NA	13	-188.000	9.90000	12.0000	60.6586
NA	14	-187.000	9.90000	13.0000	60.7431
NA	15	-186.000	9.90000	14.0000	60.8282
NA	16	-185.000	9.90000	15.0000	60.9138
NA	17	-184.000	9.90000	16.0000	60.9999
NA	18	-183.000	9.90000	17.0000	61.0866
NA	19	-182.000	9.90000	18.0000	61.1739
NA	20	-181.000	9.90000	19.0000	61.2617
NA	21	-180.000	9.90000	20.0000	61.3500
NA	22	-179.000	9.90000	21.0000	61.4390
NA	23	-178.000	9.90000	22.0000	61.5285
NA	24	-177.000	9.90000	23.0000	61.6186
NA	25	-176.000	9.90000	24.0000	61.7093
NA	26	-175.000	9.90000	25.0000	61.8005
NA	27	-174.000	9.90000	26.0000	61.8924
NA	28	-173.000	9.90000	27.0000	61.9849
NA	29	-172.000	9.90000	28.0000	62.0779
NA	30	-171.000	9.90000	29.0000	62.1716
NA	31	-170.000	9.90000	30.0000	62.2660
NA	32	-169.000	9.90000	31.0000	62.3609
NA	33	-168.000	9.90000	32.0000	62.4565

NA					
	34	-167.000	9.90000	33.0000	62.5527
NA					
	35	-166.000	9.90000	34.0000	62.6496
NA					
	36	-165.000	9.90000	35.0000	62.7471
NA					
	37	-164.000	9.90000	36.0000	62.8453
NA					
	38	-163.000	9.90000	37.0000	62.9441
NA					
	39	-162.000	9.90000	38.0000	63.0436
NA					
	40	-161.000	9.90000	39.0000	63.1438
NA					
	41	-160.000	9.90000	40.0000	63.2446
NA					
	42	-159.000	9.90000	41.0000	63.3462
NA					
	43	-158.000	9.90000	42.0000	63.4485
NA					
	44	-157.000	9.90000	43.0000	63.5514
NA					
	45	-156.000	9.90000	44.0000	63.6551
NA					
	46	-155.000	9.90000	45.0000	63.7595
NA					
	47	-154.000	9.90000	46.0000	63.8646
NA					
	48	-153.000	9.90000	47.0000	63.9704
NA					
	49	-152.000	9.90000	48.0000	64.0770
NA					
	50	-151.000	9.90000	49.0000	64.1843
NA					
	51	-150.000	9.90000	50.0000	64.2924
NA					
	52	-149.000	9.90000	51.0000	64.4012
NA					
	53	-148.000	9.90000	52.0000	64.5108
NA					
	54	-147.000	9.90000	53.0000	64.6212
NA					
	55	-146.000	9.90000	54.0000	64.7323
NA					
	56	-145.000	9.90000	55.0000	64.8443
NA					
	57	-144.000	9.90000	56.0000	64.9570
NA					
	58	-143.000	9.90000	57.0000	65.0705

NA					
	59	-142.000	9.90000	58.0000	65.1849
NA					
	60	-141.000	9.90000	59.0000	65.3000
NA					
	61	-140.000	9.90000	60.0000	65.4160
NA					
	62	-139.000	9.90000	61.0000	65.5329
NA					
	63	-138.000	9.90000	62.0000	65.6505
NA					
	64	-137.000	9.90000	63.0000	65.7690
NA					
	65	-136.000	9.90000	64.0000	65.8884
NA					
	66	-135.000	9.90000	65.0000	66.0086
NA					
	67	-134.000	9.90000	66.0000	66.1297
NA					
	68	-133.000	9.90000	67.0000	66.2517
NA					
	69	-132.000	9.90000	68.0000	66.3745
NA					
	70	-131.000	9.90000	69.0000	66.4983
NA					
	71	-130.000	9.90000	70.0000	66.6229
NA					
	72	-129.000	9.90000	71.0000	66.7485
NA					
	73	-128.000	9.90000	72.0000	66.8749
NA					
	74	-127.000	9.90000	73.0000	67.0023
NA					
	75	-126.000	9.90000	74.0000	67.1306
NA					
	76	-125.000	9.90000	75.0000	67.2599
NA					
	77	-124.000	9.90000	76.0000	67.3901
NA					
	78	-123.000	9.90000	77.0000	67.5212
NA					
	79	-122.000	9.90000	78.0000	67.6533
NA					
	80	-121.000	9.90000	79.0000	67.7864
NA					
	81	-120.000	9.90000	80.0000	67.9204
NA					
	82	-119.000	9.90000	81.0000	68.0554
NA					
	83	-118.000	9.90000	82.0000	68.1914

NA					
	84	-117.000	9.90000	83.0000	68.3283
NA					
	85	-116.000	9.90000	84.0000	68.4663
NA					
	86	-115.000	9.90000	85.0000	68.6052
NA					
	87	-114.000	9.90000	86.0000	68.7452
NA					
	88	-113.000	9.90000	87.0000	68.8861
NA					
	89	-112.000	9.90000	88.0000	69.0281
NA					
	90	-111.000	9.90000	89.0000	69.1711
NA					
	91	-110.000	9.90000	90.0000	69.3151
NA					
	92	-109.000	9.90000	91.0000	69.4601
NA					
	93	-108.000	9.90000	92.0000	69.6061
NA					
	94	-107.000	9.90000	93.0000	69.7532
NA					
	95	-106.000	9.90000	94.0000	69.9012
NA					
	96	-105.000	9.90000	95.0000	70.0503
NA					
	97	-104.000	9.90000	96.0000	70.2005
NA					
	98	-103.000	9.90000	97.0000	70.3516
NA					
	99	-102.000	9.90000	98.0000	70.5038
NA					
	100	-101.000	9.90000	99.0000	70.6570
NA					
	101	-100.000	9.90000	100.000	70.8112
NA					
	102	-99.0000	9.90000	101.000	70.9664
NA					
	103	-98.0000	9.90000	102.000	71.1226
NA					
	104	-97.0000	9.90000	103.000	71.2799
NA					
	105	-96.0000	9.90000	104.000	71.4381
NA					
	106	-95.0000	9.90000	105.000	71.5973
NA					
	107	-94.0000	9.90000	106.000	71.7574
NA					
	108	-93.0000	9.90000	107.000	71.9186

NA	109	-92.0000	9.90000	108.000	72.0806
NA	110	-91.0000	9.90000	109.000	72.2436
NA	111	-90.0000	9.90000	110.000	72.4075
NA	112	-89.0000	9.90000	111.000	72.5723
NA	113	-88.0000	9.90000	112.000	72.7380
NA	114	-87.0000	9.90000	113.000	72.9045
NA	115	-86.0000	9.90000	114.000	73.0719
NA	116	-85.0000	9.90000	115.000	73.2400
NA	117	-84.0000	9.90000	116.000	73.4090
NA	118	-83.0000	9.90000	117.000	73.5786
NA	119	-82.0000	9.90000	118.000	73.7489
NA	120	-81.0000	9.90000	119.000	73.9199
NA	121	-80.0000	9.90000	120.000	74.0916
NA	122	-79.0000	9.90000	121.000	74.2637
NA	123	-78.0000	9.90000	122.000	74.4364
NA	124	-77.0000	9.90000	123.000	74.6096
NA	125	-76.0000	9.90000	124.000	74.7832
NA	126	-75.0000	9.90000	125.000	74.9571
NA	127	-74.0000	9.90000	126.000	75.1314
NA	128	-73.0000	9.90000	127.000	75.3058
NA	129	-72.0000	9.90000	128.000	75.4804
NA	130	-71.0000	9.90000	129.000	75.6551
NA	131	-70.0000	9.90000	130.000	75.8298
NA	132	-69.0000	9.90000	131.000	76.0043
NA	133	-68.0000	9.90000	132.000	76.1787

NA	134	-67.0000	9.90000	133.000	76.3528
NA	135	-66.0000	9.90000	134.000	76.5265
NA	136	-65.0000	9.90000	135.000	76.6997
NA	137	-64.0000	9.90000	136.000	76.8723
NA	138	-63.0000	9.90000	137.000	77.0441
NA	139	-62.0000	9.90000	138.000	77.2152
NA	140	-61.0000	9.90000	139.000	77.3852
NA	141	-60.0000	9.90000	140.000	77.5542
NA	142	-59.0000	9.90000	141.000	77.7219
NA	143	-58.0000	9.90000	142.000	77.8883
NA	144	-57.0000	9.90000	143.000	78.0531
NA	145	-56.0000	9.90000	144.000	78.2163
NA	146	-55.0000	9.90000	145.000	78.3776
NA	147	-54.0000	9.90000	146.000	78.5370
NA	148	-53.0000	9.90000	147.000	78.6942
NA	149	-52.0000	9.90000	148.000	78.8492
NA	150	-51.0000	9.90000	149.000	79.0017
NA	151	-50.0000	9.90000	150.000	79.1516
NA	152	-49.0000	9.90000	151.000	79.2987
NA	153	-48.0000	9.90000	152.000	79.4429
NA	154	-47.0000	9.90000	153.000	79.5839
NA	155	-46.0000	9.90000	154.000	79.7218
NA	156	-45.0000	9.90000	155.000	79.8562
NA	157	-44.0000	9.90000	156.000	79.9870
NA	158	-43.0000	9.90000	157.000	80.1142

NA	159	-42.0000	9.90000	158.000	80.2375
NA	160	-41.0000	9.90000	159.000	80.3568
NA	161	-40.0000	9.90000	160.000	80.4720
NA	162	-39.0000	9.90000	161.000	80.5829
NA	163	-38.0000	9.90000	162.000	80.6895
NA	164	-37.0000	9.90000	163.000	80.7915
NA	165	-36.0000	9.90000	164.000	80.8890
NA	166	-35.0000	9.90000	165.000	80.9819
NA	167	-34.0000	9.90000	166.000	81.0699
NA	168	-33.0000	9.90000	167.000	81.1531
NA	169	-32.0000	9.90000	168.000	81.2314
NA	170	-31.0000	9.90000	169.000	81.3047
NA	171	-30.0000	9.90000	170.000	81.3730
NA	172	-29.0000	9.90000	171.000	81.4361
NA	173	-28.0000	9.90000	172.000	81.4941
NA	174	-27.0000	9.90000	173.000	81.5470
NA	175	-26.0000	9.90000	174.000	81.5946
NA	176	-25.0000	9.90000	175.000	81.6370
NA	177	-24.0000	9.90000	176.000	81.6742
NA	178	-23.0000	9.90000	177.000	81.7974
NA	179	-22.0000	9.90000	178.000	81.9466
NA	180	-21.0000	9.90000	179.000	82.0916
NA	181	-20.0000	9.90000	180.000	82.2322
NA	182	-19.0000	9.90000	181.000	82.3681
NA	183	-18.0000	9.90000	182.000	82.4991

NA	184	-17.0000	9.90000	183.000	82.6249
NA	185	-16.0000	9.90000	184.000	82.7453
NA	186	-15.0000	9.90000	185.000	82.8600
NA	187	-14.0000	9.90000	186.000	82.9686
NA	188	-13.0000	9.90000	187.000	83.0711
NA	189	-12.0000	9.90000	188.000	83.1671
NA	190	-11.0000	9.90000	189.000	83.2563
NA	191	-10.0000	9.90000	190.000	83.3387
NA	192	-9.00000	9.90000	191.000	83.4138
NA	193	-8.00000	9.90000	192.000	83.4817
NA	194	-7.00000	9.90000	193.000	83.5420
NA	195	-6.00000	9.90000	194.000	83.5946
NA	196	-5.00000	9.90000	195.000	83.6394
NA	197	-4.00000	9.90000	196.000	83.6762
NA	198	-3.00000	9.90000	197.000	83.7049
NA	199	-2.00000	9.90000	198.000	83.7255
NA	200	-1.00000	9.90000	199.000	83.7379
NA	201	0.00000	9.90000	200.000	83.7420
NA	202	1.00000	9.90000	201.000	83.7379
NA	203	2.00000	9.90000	202.000	83.7255
NA	204	3.00000	9.90000	203.000	83.7049
NA	205	4.00000	9.90000	204.000	83.6762
NA	206	5.00000	9.90000	205.000	83.6394
NA	207	6.00000	9.90000	206.000	83.5946
NA	208	7.00000	9.90000	207.000	83.5420

NA	209	8.00000	9.90000	208.000	83.4817
NA	210	9.00000	9.90000	209.000	83.4138
NA	211	10.0000	9.90000	210.000	83.3387
NA	212	11.0000	9.90000	211.000	83.2563
NA	213	12.0000	9.90000	212.000	83.1671
NA	214	13.0000	9.90000	213.000	83.0711
NA	215	14.0000	9.90000	214.000	82.9686
NA	216	15.0000	9.90000	215.000	82.8600
NA	217	16.0000	9.90000	216.000	82.7453
NA	218	17.0000	9.90000	217.000	82.6249
NA	219	18.0000	9.90000	218.000	82.4991
NA	220	19.0000	9.90000	219.000	82.3681
NA	221	20.0000	9.90000	220.000	82.2322
NA	222	21.0000	9.90000	221.000	82.0916
NA	223	22.0000	9.90000	222.000	81.9466
NA	224	23.0000	9.90000	223.000	81.7974
NA	225	24.0000	9.90000	224.000	81.6741
NA	226	25.0000	9.90000	225.000	81.6369
NA	227	26.0000	9.90000	226.000	81.5945
NA	228	27.0000	9.90000	227.000	81.5469
NA	229	28.0000	9.90000	228.000	81.4941
NA	230	29.0000	9.90000	229.000	81.4360
NA	231	30.0000	9.90000	230.000	81.3729
NA	232	31.0000	9.90000	231.000	81.3046
NA	233	32.0000	9.90000	232.000	81.2313

NA	234	33.0000	9.90000	233.000	81.1531
NA	235	34.0000	9.90000	234.000	81.0699
NA	236	35.0000	9.90000	235.000	80.9818
NA	237	36.0000	9.90000	236.000	80.8890
NA	238	37.0000	9.90000	237.000	80.7915
NA	239	38.0000	9.90000	238.000	80.6894
NA	240	39.0000	9.90000	239.000	80.5828
NA	241	40.0000	9.90000	240.000	80.4719
NA	242	41.0000	9.90000	241.000	80.3567
NA	243	42.0000	9.90000	242.000	80.2374
NA	244	43.0000	9.90000	243.000	80.1141
NA	245	44.0000	9.90000	244.000	79.9870
NA	246	45.0000	9.90000	245.000	79.8561
NA	247	46.0000	9.90000	246.000	79.7217
NA	248	47.0000	9.90000	247.000	79.5839
NA	249	48.0000	9.90000	248.000	79.4428
NA	250	49.0000	9.90000	249.000	79.2986
NA	251	50.0000	9.90000	250.000	79.1515
NA	252	51.0000	9.90000	251.000	79.0016
NA	253	52.0000	9.90000	252.000	78.8491
NA	254	53.0000	9.90000	253.000	78.6942
NA	255	54.0000	9.90000	254.000	78.5369
NA	256	55.0000	9.90000	255.000	78.3776
NA	257	56.0000	9.90000	256.000	78.2162
NA	258	57.0000	9.90000	257.000	78.0531

NA	259	58.0000	9.90000	258.000	77.8882
NA	260	59.0000	9.90000	259.000	77.7219
NA	261	60.0000	9.90000	260.000	77.5541
NA	262	61.0000	9.90000	261.000	77.3852
NA	263	62.0000	9.90000	262.000	77.2151
NA	264	63.0000	9.90000	263.000	77.0441
NA	265	64.0000	9.90000	264.000	76.8722
NA	266	65.0000	9.90000	265.000	76.6996
NA	267	66.0000	9.90000	266.000	76.5264
NA	268	67.0000	9.90000	267.000	76.3527
NA	269	68.0000	9.90000	268.000	76.1786
NA	270	69.0000	9.90000	269.000	76.0042
NA	271	70.0000	9.90000	270.000	75.8297
NA	272	71.0000	9.90000	271.000	75.6550
NA	273	72.0000	9.90000	272.000	75.4804
NA	274	73.0000	9.90000	273.000	75.3058
NA	275	74.0000	9.90000	274.000	75.1313
NA	276	75.0000	9.90000	275.000	74.9571
NA	277	76.0000	9.90000	276.000	74.7831
NA	278	77.0000	9.90000	277.000	74.6095
NA	279	78.0000	9.90000	278.000	74.4364
NA	280	79.0000	9.90000	279.000	74.2637
NA	281	80.0000	9.90000	280.000	74.0915
NA	282	81.0000	9.90000	281.000	73.9199
NA	283	82.0000	9.90000	282.000	73.7489

NA	284	83.0000	9.90000	283.000	73.5785
NA	285	84.0000	9.90000	284.000	73.4089
NA	286	85.0000	9.90000	285.000	73.2400
NA	287	86.0000	9.90000	286.000	73.0718
NA	288	87.0000	9.90000	287.000	72.9045
NA	289	88.0000	9.90000	288.000	72.7380
NA	290	89.0000	9.90000	289.000	72.5723
NA	291	90.0000	9.90000	290.000	72.4075
NA	292	91.0000	9.90000	291.000	72.2436
NA	293	92.0000	9.90000	292.000	72.0806
NA	294	93.0000	9.90000	293.000	71.9185
NA	295	94.0000	9.90000	294.000	71.7574
NA	296	95.0000	9.90000	295.000	71.5972
NA	297	96.0000	9.90000	296.000	71.4380
NA	298	97.0000	9.90000	297.000	71.2798
NA	299	98.0000	9.90000	298.000	71.1226
NA	300	99.0000	9.90000	299.000	70.9663
NA	301	100.000	9.90000	300.000	70.8111
NA	302	101.000	9.90000	301.000	70.6569
NA	303	102.000	9.90000	302.000	70.5037
NA	304	103.000	9.90000	303.000	70.3516
NA	305	104.000	9.90000	304.000	70.2004
NA	306	105.000	9.90000	305.000	70.0503
NA	307	106.000	9.90000	306.000	69.9012
NA	308	107.000	9.90000	307.000	69.7531

NA	309	108.000	9.90000	308.000	69.6060
NA	310	109.000	9.90000	309.000	69.4600
NA	311	110.000	9.90000	310.000	69.3150
NA	312	111.000	9.90000	311.000	69.1710
NA	313	112.000	9.90000	312.000	69.0280
NA	314	113.000	9.90000	313.000	68.8861
NA	315	114.000	9.90000	314.000	68.7451
NA	316	115.000	9.90000	315.000	68.6051
NA	317	116.000	9.90000	316.000	68.4662
NA	318	117.000	9.90000	317.000	68.3282
NA	319	118.000	9.90000	318.000	68.1913
NA	320	119.000	9.90000	319.000	68.0553
NA	321	120.000	9.90000	320.000	67.9203
NA	322	121.000	9.90000	321.000	67.7863
NA	323	122.000	9.90000	322.000	67.6532
NA	324	123.000	9.90000	323.000	67.5211
NA	325	124.000	9.90000	324.000	67.3900
NA	326	125.000	9.90000	325.000	67.2598
NA	327	126.000	9.90000	326.000	67.1306
NA	328	127.000	9.90000	327.000	67.0022
NA	329	128.000	9.90000	328.000	66.8749
NA	330	129.000	9.90000	329.000	66.7484
NA	331	130.000	9.90000	330.000	66.6228
NA	332	131.000	9.90000	331.000	66.4982
NA	333	132.000	9.90000	332.000	66.3744

NA					
	334	133.000	9.90000	333.000	66.2516
NA					
	335	134.000	9.90000	334.000	66.1296
NA					
	336	135.000	9.90000	335.000	66.0085
NA					
	337	136.000	9.90000	336.000	65.8883
NA					
	338	137.000	9.90000	337.000	65.7689
NA					
	339	138.000	9.90000	338.000	65.6504
NA					
	340	139.000	9.90000	339.000	65.5328
NA					
	341	140.000	9.90000	340.000	65.4160
NA					
	342	141.000	9.90000	341.000	65.3000
NA					
	343	142.000	9.90000	342.000	65.1848
NA					
	344	143.000	9.90000	343.000	65.0705
NA					
	345	144.000	9.90000	344.000	64.9569
NA					
	346	145.000	9.90000	345.000	64.8442
NA					
	347	146.000	9.90000	346.000	64.7323
NA					
	348	147.000	9.90000	347.000	64.6211
NA					
	349	148.000	9.90000	348.000	64.5107
NA					
	350	149.000	9.90000	349.000	64.4011
NA					
	351	150.000	9.90000	350.000	64.2923
NA					
	352	151.000	9.90000	351.000	64.1842
NA					
	353	152.000	9.90000	352.000	64.0769
NA					
	354	153.000	9.90000	353.000	63.9703
NA					
	355	154.000	9.90000	354.000	63.8645
NA					
	356	155.000	9.90000	355.000	63.7594
NA					
	357	156.000	9.90000	356.000	63.6550
NA					
	358	157.000	9.90000	357.000	63.5513

NA	359	158.000	9.90000	358.000	63.4484
NA	360	159.000	9.90000	359.000	63.3461
NA	361	160.000	9.90000	360.000	63.2446
NA	362	161.000	9.90000	361.000	63.1437
NA	363	162.000	9.90000	362.000	63.0435
NA	364	163.000	9.90000	363.000	62.9440
NA	365	164.000	9.90000	364.000	62.8452
NA	366	165.000	9.90000	365.000	62.7470
NA	367	166.000	9.90000	366.000	62.6495
NA	368	167.000	9.90000	367.000	62.5526
NA	369	168.000	9.90000	368.000	62.4564
NA	370	169.000	9.90000	369.000	62.3608
NA	371	170.000	9.90000	370.000	62.2659
NA	372	171.000	9.90000	371.000	62.1716
NA	373	172.000	9.90000	372.000	62.0779
NA	374	173.000	9.90000	373.000	61.9848
NA	375	174.000	9.90000	374.000	61.8923
NA	376	175.000	9.90000	375.000	61.8005
NA	377	176.000	9.90000	376.000	61.7092
NA	378	177.000	9.90000	377.000	61.6185
NA	379	178.000	9.90000	378.000	61.5284
NA	380	179.000	9.90000	379.000	61.4389
NA	381	180.000	9.90000	380.000	61.3500
NA	382	181.000	9.90000	381.000	61.2616
NA	383	182.000	9.90000	382.000	61.1738

NA	384	183.000	9.90000	383.000	61.0865
NA	385	184.000	9.90000	384.000	60.9999
NA	386	185.000	9.90000	385.000	60.9137
NA	387	186.000	9.90000	386.000	60.8281
NA	388	187.000	9.90000	387.000	60.7431
NA	389	188.000	9.90000	388.000	60.6585
NA	390	189.000	9.90000	389.000	60.5745
NA	391	190.000	9.90000	390.000	60.4911
NA	392	191.000	9.90000	391.000	60.4081
NA	393	192.000	9.90000	392.000	60.3257
NA	394	193.000	9.90000	393.000	60.2437
NA	395	194.000	9.90000	394.000	60.1623
NA	396	195.000	9.90000	395.000	60.0814
NA	397	196.000	9.90000	396.000	60.0010
NA	398	197.000	9.90000	397.000	59.9210
NA	399	198.000	9.90000	398.000	59.8416
NA	400	199.000	9.90000	399.000	59.7626
NA	401	200.000	9.90000	400.000	59.6841

SES-ENVIRO package - PAGE 68

RUN:

Calculation of the AC radio noise level by an empirical method.

Weather conditions: FAIR (dry conductors)

BPA empirical method

Radio Interference Profile no. 1 (A.C. Line)

RI_H a.c. dB/(1uV/m)	Points No.	Y feet	Z feet	Distance feet	RI_E a.c. dB/(1uV/m)
NA	1	-200.000	9.90000	0.00000	38.1842
NA	2	-199.000	9.90000	1.00000	38.2627
NA	3	-198.000	9.90000	2.00000	38.3416
NA	4	-197.000	9.90000	3.00000	38.4211
NA	5	-196.000	9.90000	4.00000	38.5010
NA	6	-195.000	9.90000	5.00000	38.5815
NA	7	-194.000	9.90000	6.00000	38.6624
NA	8	-193.000	9.90000	7.00000	38.7438
NA	9	-192.000	9.90000	8.00000	38.8257
NA	10	-191.000	9.90000	9.00000	38.9082
NA	11	-190.000	9.90000	10.0000	38.9911
NA	12	-189.000	9.90000	11.0000	39.0746
NA	13	-188.000	9.90000	12.0000	39.1586
NA	14	-187.000	9.90000	13.0000	39.2431
NA	15	-186.000	9.90000	14.0000	39.3282
NA	16	-185.000	9.90000	15.0000	39.4138
NA	17	-184.000	9.90000	16.0000	39.4999
NA	18	-183.000	9.90000	17.0000	39.5866

NA					
	19	-182.000	9.90000	18.0000	39.6739
NA					
	20	-181.000	9.90000	19.0000	39.7617
NA					
	21	-180.000	9.90000	20.0000	39.8500
NA					
	22	-179.000	9.90000	21.0000	39.9390
NA					
	23	-178.000	9.90000	22.0000	40.0285
NA					
	24	-177.000	9.90000	23.0000	40.1186
NA					
	25	-176.000	9.90000	24.0000	40.2093
NA					
	26	-175.000	9.90000	25.0000	40.3005
NA					
	27	-174.000	9.90000	26.0000	40.3924
NA					
	28	-173.000	9.90000	27.0000	40.4849
NA					
	29	-172.000	9.90000	28.0000	40.5779
NA					
	30	-171.000	9.90000	29.0000	40.6716
NA					
	31	-170.000	9.90000	30.0000	40.7660
NA					
	32	-169.000	9.90000	31.0000	40.8609
NA					
	33	-168.000	9.90000	32.0000	40.9565
NA					
	34	-167.000	9.90000	33.0000	41.0527
NA					
	35	-166.000	9.90000	34.0000	41.1496
NA					
	36	-165.000	9.90000	35.0000	41.2471
NA					
	37	-164.000	9.90000	36.0000	41.3453
NA					
	38	-163.000	9.90000	37.0000	41.4441
NA					
	39	-162.000	9.90000	38.0000	41.5436
NA					
	40	-161.000	9.90000	39.0000	41.6438
NA					
	41	-160.000	9.90000	40.0000	41.7446
NA					
	42	-159.000	9.90000	41.0000	41.8462
NA					
	43	-158.000	9.90000	42.0000	41.9485

NA					
	44	-157.000	9.90000	43.0000	42.0514
NA					
	45	-156.000	9.90000	44.0000	42.1551
NA					
	46	-155.000	9.90000	45.0000	42.2595
NA					
	47	-154.000	9.90000	46.0000	42.3646
NA					
	48	-153.000	9.90000	47.0000	42.4704
NA					
	49	-152.000	9.90000	48.0000	42.5770
NA					
	50	-151.000	9.90000	49.0000	42.6843
NA					
	51	-150.000	9.90000	50.0000	42.7924
NA					
	52	-149.000	9.90000	51.0000	42.9012
NA					
	53	-148.000	9.90000	52.0000	43.0108
NA					
	54	-147.000	9.90000	53.0000	43.1212
NA					
	55	-146.000	9.90000	54.0000	43.2323
NA					
	56	-145.000	9.90000	55.0000	43.3443
NA					
	57	-144.000	9.90000	56.0000	43.4570
NA					
	58	-143.000	9.90000	57.0000	43.5705
NA					
	59	-142.000	9.90000	58.0000	43.6849
NA					
	60	-141.000	9.90000	59.0000	43.8000
NA					
	61	-140.000	9.90000	60.0000	43.9160
NA					
	62	-139.000	9.90000	61.0000	44.0329
NA					
	63	-138.000	9.90000	62.0000	44.1505
NA					
	64	-137.000	9.90000	63.0000	44.2690
NA					
	65	-136.000	9.90000	64.0000	44.3884
NA					
	66	-135.000	9.90000	65.0000	44.5086
NA					
	67	-134.000	9.90000	66.0000	44.6297
NA					
	68	-133.000	9.90000	67.0000	44.7517

NA					
	69	-132.000	9.90000	68.0000	44.8745
NA					
	70	-131.000	9.90000	69.0000	44.9983
NA					
	71	-130.000	9.90000	70.0000	45.1229
NA					
	72	-129.000	9.90000	71.0000	45.2485
NA					
	73	-128.000	9.90000	72.0000	45.3749
NA					
	74	-127.000	9.90000	73.0000	45.5023
NA					
	75	-126.000	9.90000	74.0000	45.6306
NA					
	76	-125.000	9.90000	75.0000	45.7599
NA					
	77	-124.000	9.90000	76.0000	45.8901
NA					
	78	-123.000	9.90000	77.0000	46.0212
NA					
	79	-122.000	9.90000	78.0000	46.1533
NA					
	80	-121.000	9.90000	79.0000	46.2864
NA					
	81	-120.000	9.90000	80.0000	46.4204
NA					
	82	-119.000	9.90000	81.0000	46.5554
NA					
	83	-118.000	9.90000	82.0000	46.6914
NA					
	84	-117.000	9.90000	83.0000	46.8283
NA					
	85	-116.000	9.90000	84.0000	46.9663
NA					
	86	-115.000	9.90000	85.0000	47.1052
NA					
	87	-114.000	9.90000	86.0000	47.2452
NA					
	88	-113.000	9.90000	87.0000	47.3861
NA					
	89	-112.000	9.90000	88.0000	47.5281
NA					
	90	-111.000	9.90000	89.0000	47.6711
NA					
	91	-110.000	9.90000	90.0000	47.8151
NA					
	92	-109.000	9.90000	91.0000	47.9601
NA					
	93	-108.000	9.90000	92.0000	48.1061

NA					
	94	-107.000	9.90000	93.0000	48.2532
NA					
	95	-106.000	9.90000	94.0000	48.4012
NA					
	96	-105.000	9.90000	95.0000	48.5503
NA					
	97	-104.000	9.90000	96.0000	48.7005
NA					
	98	-103.000	9.90000	97.0000	48.8516
NA					
	99	-102.000	9.90000	98.0000	49.0038
NA					
	100	-101.000	9.90000	99.0000	49.1570
NA					
	101	-100.000	9.90000	100.000	49.3112
NA					
	102	-99.0000	9.90000	101.000	49.4664
NA					
	103	-98.0000	9.90000	102.000	49.6226
NA					
	104	-97.0000	9.90000	103.000	49.7799
NA					
	105	-96.0000	9.90000	104.000	49.9381
NA					
	106	-95.0000	9.90000	105.000	50.0973
NA					
	107	-94.0000	9.90000	106.000	50.2574
NA					
	108	-93.0000	9.90000	107.000	50.4186
NA					
	109	-92.0000	9.90000	108.000	50.5806
NA					
	110	-91.0000	9.90000	109.000	50.7436
NA					
	111	-90.0000	9.90000	110.000	50.9075
NA					
	112	-89.0000	9.90000	111.000	51.0723
NA					
	113	-88.0000	9.90000	112.000	51.2380
NA					
	114	-87.0000	9.90000	113.000	51.4045
NA					
	115	-86.0000	9.90000	114.000	51.5719
NA					
	116	-85.0000	9.90000	115.000	51.7400
NA					
	117	-84.0000	9.90000	116.000	51.9090
NA					
	118	-83.0000	9.90000	117.000	52.0786

NA	119	-82.0000	9.90000	118.000	52.2489
NA	120	-81.0000	9.90000	119.000	52.4199
NA	121	-80.0000	9.90000	120.000	52.5916
NA	122	-79.0000	9.90000	121.000	52.7637
NA	123	-78.0000	9.90000	122.000	52.9364
NA	124	-77.0000	9.90000	123.000	53.1096
NA	125	-76.0000	9.90000	124.000	53.2832
NA	126	-75.0000	9.90000	125.000	53.4571
NA	127	-74.0000	9.90000	126.000	53.6314
NA	128	-73.0000	9.90000	127.000	53.8058
NA	129	-72.0000	9.90000	128.000	53.9804
NA	130	-71.0000	9.90000	129.000	54.1551
NA	131	-70.0000	9.90000	130.000	54.3298
NA	132	-69.0000	9.90000	131.000	54.5043
NA	133	-68.0000	9.90000	132.000	54.6787
NA	134	-67.0000	9.90000	133.000	54.8528
NA	135	-66.0000	9.90000	134.000	55.0265
NA	136	-65.0000	9.90000	135.000	55.1997
NA	137	-64.0000	9.90000	136.000	55.3723
NA	138	-63.0000	9.90000	137.000	55.5441
NA	139	-62.0000	9.90000	138.000	55.7152
NA	140	-61.0000	9.90000	139.000	55.8852
NA	141	-60.0000	9.90000	140.000	56.0542
NA	142	-59.0000	9.90000	141.000	56.2219
NA	143	-58.0000	9.90000	142.000	56.3883

NA	144	-57.0000	9.90000	143.000	56.5531
NA	145	-56.0000	9.90000	144.000	56.7163
NA	146	-55.0000	9.90000	145.000	56.8776
NA	147	-54.0000	9.90000	146.000	57.0370
NA	148	-53.0000	9.90000	147.000	57.1942
NA	149	-52.0000	9.90000	148.000	57.3492
NA	150	-51.0000	9.90000	149.000	57.5017
NA	151	-50.0000	9.90000	150.000	57.6516
NA	152	-49.0000	9.90000	151.000	57.7987
NA	153	-48.0000	9.90000	152.000	57.9429
NA	154	-47.0000	9.90000	153.000	58.0839
NA	155	-46.0000	9.90000	154.000	58.2218
NA	156	-45.0000	9.90000	155.000	58.3562
NA	157	-44.0000	9.90000	156.000	58.4870
NA	158	-43.0000	9.90000	157.000	58.6142
NA	159	-42.0000	9.90000	158.000	58.7375
NA	160	-41.0000	9.90000	159.000	58.8568
NA	161	-40.0000	9.90000	160.000	58.9720
NA	162	-39.0000	9.90000	161.000	59.0829
NA	163	-38.0000	9.90000	162.000	59.1895
NA	164	-37.0000	9.90000	163.000	59.2915
NA	165	-36.0000	9.90000	164.000	59.3890
NA	166	-35.0000	9.90000	165.000	59.4819
NA	167	-34.0000	9.90000	166.000	59.5699
NA	168	-33.0000	9.90000	167.000	59.6531

NA	169	-32.0000	9.90000	168.000	59.7314
NA	170	-31.0000	9.90000	169.000	59.8047
NA	171	-30.0000	9.90000	170.000	59.8730
NA	172	-29.0000	9.90000	171.000	59.9361
NA	173	-28.0000	9.90000	172.000	59.9941
NA	174	-27.0000	9.90000	173.000	60.0470
NA	175	-26.0000	9.90000	174.000	60.0946
NA	176	-25.0000	9.90000	175.000	60.1370
NA	177	-24.0000	9.90000	176.000	60.1742
NA	178	-23.0000	9.90000	177.000	60.2974
NA	179	-22.0000	9.90000	178.000	60.4466
NA	180	-21.0000	9.90000	179.000	60.5916
NA	181	-20.0000	9.90000	180.000	60.7322
NA	182	-19.0000	9.90000	181.000	60.8681
NA	183	-18.0000	9.90000	182.000	60.9991
NA	184	-17.0000	9.90000	183.000	61.1249
NA	185	-16.0000	9.90000	184.000	61.2453
NA	186	-15.0000	9.90000	185.000	61.3600
NA	187	-14.0000	9.90000	186.000	61.4686
NA	188	-13.0000	9.90000	187.000	61.5711
NA	189	-12.0000	9.90000	188.000	61.6671
NA	190	-11.0000	9.90000	189.000	61.7563
NA	191	-10.0000	9.90000	190.000	61.8387
NA	192	-9.00000	9.90000	191.000	61.9138
NA	193	-8.00000	9.90000	192.000	61.9817

NA	194	-7.00000	9.90000	193.000	62.0420
NA	195	-6.00000	9.90000	194.000	62.0946
NA	196	-5.00000	9.90000	195.000	62.1394
NA	197	-4.00000	9.90000	196.000	62.1762
NA	198	-3.00000	9.90000	197.000	62.2049
NA	199	-2.00000	9.90000	198.000	62.2255
NA	200	-1.00000	9.90000	199.000	62.2379
NA	201	0.00000	9.90000	200.000	62.2420
NA	202	1.00000	9.90000	201.000	62.2379
NA	203	2.00000	9.90000	202.000	62.2255
NA	204	3.00000	9.90000	203.000	62.2049
NA	205	4.00000	9.90000	204.000	62.1762
NA	206	5.00000	9.90000	205.000	62.1394
NA	207	6.00000	9.90000	206.000	62.0946
NA	208	7.00000	9.90000	207.000	62.0420
NA	209	8.00000	9.90000	208.000	61.9817
NA	210	9.00000	9.90000	209.000	61.9138
NA	211	10.0000	9.90000	210.000	61.8387
NA	212	11.0000	9.90000	211.000	61.7563
NA	213	12.0000	9.90000	212.000	61.6671
NA	214	13.0000	9.90000	213.000	61.5711
NA	215	14.0000	9.90000	214.000	61.4686
NA	216	15.0000	9.90000	215.000	61.3600
NA	217	16.0000	9.90000	216.000	61.2453
NA	218	17.0000	9.90000	217.000	61.1249

NA	219	18.0000	9.90000	218.000	60.9991
NA	220	19.0000	9.90000	219.000	60.8681
NA	221	20.0000	9.90000	220.000	60.7322
NA	222	21.0000	9.90000	221.000	60.5916
NA	223	22.0000	9.90000	222.000	60.4466
NA	224	23.0000	9.90000	223.000	60.2974
NA	225	24.0000	9.90000	224.000	60.1741
NA	226	25.0000	9.90000	225.000	60.1369
NA	227	26.0000	9.90000	226.000	60.0945
NA	228	27.0000	9.90000	227.000	60.0469
NA	229	28.0000	9.90000	228.000	59.9941
NA	230	29.0000	9.90000	229.000	59.9360
NA	231	30.0000	9.90000	230.000	59.8729
NA	232	31.0000	9.90000	231.000	59.8046
NA	233	32.0000	9.90000	232.000	59.7313
NA	234	33.0000	9.90000	233.000	59.6531
NA	235	34.0000	9.90000	234.000	59.5699
NA	236	35.0000	9.90000	235.000	59.4818
NA	237	36.0000	9.90000	236.000	59.3890
NA	238	37.0000	9.90000	237.000	59.2915
NA	239	38.0000	9.90000	238.000	59.1894
NA	240	39.0000	9.90000	239.000	59.0828
NA	241	40.0000	9.90000	240.000	58.9719
NA	242	41.0000	9.90000	241.000	58.8567
NA	243	42.0000	9.90000	242.000	58.7374

NA	244	43.0000	9.90000	243.000	58.6141
NA	245	44.0000	9.90000	244.000	58.4870
NA	246	45.0000	9.90000	245.000	58.3561
NA	247	46.0000	9.90000	246.000	58.2217
NA	248	47.0000	9.90000	247.000	58.0839
NA	249	48.0000	9.90000	248.000	57.9428
NA	250	49.0000	9.90000	249.000	57.7986
NA	251	50.0000	9.90000	250.000	57.6515
NA	252	51.0000	9.90000	251.000	57.5016
NA	253	52.0000	9.90000	252.000	57.3491
NA	254	53.0000	9.90000	253.000	57.1942
NA	255	54.0000	9.90000	254.000	57.0369
NA	256	55.0000	9.90000	255.000	56.8776
NA	257	56.0000	9.90000	256.000	56.7162
NA	258	57.0000	9.90000	257.000	56.5531
NA	259	58.0000	9.90000	258.000	56.3882
NA	260	59.0000	9.90000	259.000	56.2219
NA	261	60.0000	9.90000	260.000	56.0541
NA	262	61.0000	9.90000	261.000	55.8852
NA	263	62.0000	9.90000	262.000	55.7151
NA	264	63.0000	9.90000	263.000	55.5441
NA	265	64.0000	9.90000	264.000	55.3722
NA	266	65.0000	9.90000	265.000	55.1996
NA	267	66.0000	9.90000	266.000	55.0264
NA	268	67.0000	9.90000	267.000	54.8527

NA	269	68.0000	9.90000	268.000	54.6786
NA	270	69.0000	9.90000	269.000	54.5042
NA	271	70.0000	9.90000	270.000	54.3297
NA	272	71.0000	9.90000	271.000	54.1550
NA	273	72.0000	9.90000	272.000	53.9804
NA	274	73.0000	9.90000	273.000	53.8058
NA	275	74.0000	9.90000	274.000	53.6313
NA	276	75.0000	9.90000	275.000	53.4571
NA	277	76.0000	9.90000	276.000	53.2831
NA	278	77.0000	9.90000	277.000	53.1095
NA	279	78.0000	9.90000	278.000	52.9364
NA	280	79.0000	9.90000	279.000	52.7637
NA	281	80.0000	9.90000	280.000	52.5915
NA	282	81.0000	9.90000	281.000	52.4199
NA	283	82.0000	9.90000	282.000	52.2489
NA	284	83.0000	9.90000	283.000	52.0785
NA	285	84.0000	9.90000	284.000	51.9089
NA	286	85.0000	9.90000	285.000	51.7400
NA	287	86.0000	9.90000	286.000	51.5718
NA	288	87.0000	9.90000	287.000	51.4045
NA	289	88.0000	9.90000	288.000	51.2380
NA	290	89.0000	9.90000	289.000	51.0723
NA	291	90.0000	9.90000	290.000	50.9075
NA	292	91.0000	9.90000	291.000	50.7436
NA	293	92.0000	9.90000	292.000	50.5806

NA	294	93.0000	9.90000	293.000	50.4185
NA	295	94.0000	9.90000	294.000	50.2574
NA	296	95.0000	9.90000	295.000	50.0972
NA	297	96.0000	9.90000	296.000	49.9380
NA	298	97.0000	9.90000	297.000	49.7798
NA	299	98.0000	9.90000	298.000	49.6226
NA	300	99.0000	9.90000	299.000	49.4663
NA	301	100.000	9.90000	300.000	49.3111
NA	302	101.000	9.90000	301.000	49.1569
NA	303	102.000	9.90000	302.000	49.0037
NA	304	103.000	9.90000	303.000	48.8516
NA	305	104.000	9.90000	304.000	48.7004
NA	306	105.000	9.90000	305.000	48.5503
NA	307	106.000	9.90000	306.000	48.4012
NA	308	107.000	9.90000	307.000	48.2531
NA	309	108.000	9.90000	308.000	48.1060
NA	310	109.000	9.90000	309.000	47.9600
NA	311	110.000	9.90000	310.000	47.8150
NA	312	111.000	9.90000	311.000	47.6710
NA	313	112.000	9.90000	312.000	47.5280
NA	314	113.000	9.90000	313.000	47.3861
NA	315	114.000	9.90000	314.000	47.2451
NA	316	115.000	9.90000	315.000	47.1051
NA	317	116.000	9.90000	316.000	46.9662
NA	318	117.000	9.90000	317.000	46.8282

NA					
	319	118.000	9.90000	318.000	46.6913
NA					
	320	119.000	9.90000	319.000	46.5553
NA					
	321	120.000	9.90000	320.000	46.4203
NA					
	322	121.000	9.90000	321.000	46.2863
NA					
	323	122.000	9.90000	322.000	46.1532
NA					
	324	123.000	9.90000	323.000	46.0211
NA					
	325	124.000	9.90000	324.000	45.8900
NA					
	326	125.000	9.90000	325.000	45.7598
NA					
	327	126.000	9.90000	326.000	45.6306
NA					
	328	127.000	9.90000	327.000	45.5022
NA					
	329	128.000	9.90000	328.000	45.3749
NA					
	330	129.000	9.90000	329.000	45.2484
NA					
	331	130.000	9.90000	330.000	45.1228
NA					
	332	131.000	9.90000	331.000	44.9982
NA					
	333	132.000	9.90000	332.000	44.8744
NA					
	334	133.000	9.90000	333.000	44.7516
NA					
	335	134.000	9.90000	334.000	44.6296
NA					
	336	135.000	9.90000	335.000	44.5085
NA					
	337	136.000	9.90000	336.000	44.3883
NA					
	338	137.000	9.90000	337.000	44.2689
NA					
	339	138.000	9.90000	338.000	44.1504
NA					
	340	139.000	9.90000	339.000	44.0328
NA					
	341	140.000	9.90000	340.000	43.9160
NA					
	342	141.000	9.90000	341.000	43.8000
NA					
	343	142.000	9.90000	342.000	43.6848

NA	344	143.000	9.90000	343.000	43.5705
NA	345	144.000	9.90000	344.000	43.4569
NA	346	145.000	9.90000	345.000	43.3442
NA	347	146.000	9.90000	346.000	43.2323
NA	348	147.000	9.90000	347.000	43.1211
NA	349	148.000	9.90000	348.000	43.0107
NA	350	149.000	9.90000	349.000	42.9011
NA	351	150.000	9.90000	350.000	42.7923
NA	352	151.000	9.90000	351.000	42.6842
NA	353	152.000	9.90000	352.000	42.5769
NA	354	153.000	9.90000	353.000	42.4703
NA	355	154.000	9.90000	354.000	42.3645
NA	356	155.000	9.90000	355.000	42.2594
NA	357	156.000	9.90000	356.000	42.1550
NA	358	157.000	9.90000	357.000	42.0513
NA	359	158.000	9.90000	358.000	41.9484
NA	360	159.000	9.90000	359.000	41.8461
NA	361	160.000	9.90000	360.000	41.7446
NA	362	161.000	9.90000	361.000	41.6437
NA	363	162.000	9.90000	362.000	41.5435
NA	364	163.000	9.90000	363.000	41.4440
NA	365	164.000	9.90000	364.000	41.3452
NA	366	165.000	9.90000	365.000	41.2470
NA	367	166.000	9.90000	366.000	41.1495
NA	368	167.000	9.90000	367.000	41.0526

NA					
	369	168.000	9.90000	368.000	40.9564
NA					
	370	169.000	9.90000	369.000	40.8608
NA					
	371	170.000	9.90000	370.000	40.7659
NA					
	372	171.000	9.90000	371.000	40.6716
NA					
	373	172.000	9.90000	372.000	40.5779
NA					
	374	173.000	9.90000	373.000	40.4848
NA					
	375	174.000	9.90000	374.000	40.3923
NA					
	376	175.000	9.90000	375.000	40.3005
NA					
	377	176.000	9.90000	376.000	40.2092
NA					
	378	177.000	9.90000	377.000	40.1185
NA					
	379	178.000	9.90000	378.000	40.0284
NA					
	380	179.000	9.90000	379.000	39.9389
NA					
	381	180.000	9.90000	380.000	39.8500
NA					
	382	181.000	9.90000	381.000	39.7616
NA					
	383	182.000	9.90000	382.000	39.6738
NA					
	384	183.000	9.90000	383.000	39.5865
NA					
	385	184.000	9.90000	384.000	39.4999
NA					
	386	185.000	9.90000	385.000	39.4137
NA					
	387	186.000	9.90000	386.000	39.3281
NA					
	388	187.000	9.90000	387.000	39.2431
NA					
	389	188.000	9.90000	388.000	39.1585
NA					
	390	189.000	9.90000	389.000	39.0745
NA					
	391	190.000	9.90000	390.000	38.9911
NA					
	392	191.000	9.90000	391.000	38.9081
NA					
	393	192.000	9.90000	392.000	38.8257

NA	394	193.000	9.90000	393.000	38.7437
NA	395	194.000	9.90000	394.000	38.6623
NA	396	195.000	9.90000	395.000	38.5814
NA	397	196.000	9.90000	396.000	38.5010
NA	398	197.000	9.90000	397.000	38.4210
NA	399	198.000	9.90000	398.000	38.3416
NA	400	199.000	9.90000	399.000	38.2626
NA	401	200.000	9.90000	400.000	38.1841

=====
T A T I O N = = = = = A U D I B L E N O I S E C O M P U
=====

=====
E S = = = = = A U D I B L E N O I S E P R O F I L
=====

Profil No. 1

NUMBER OF POINTS : 401
COORDINATES OF ORIGIN OF PROFILE:
Yo = -200.00 feet
Zo = 3.2808 feet

COORDINATES OF END OF PROFILE:

Ye = 200.00 feet
 Ze = 3.2808 feet

Calculation of the AC audible noise level by an empirical method.

Weather conditions: HEAVY RAIN

BPA-E empirical method

Audible Noise Profile no. 1 (A.C. Line)

Points No.	Y feet	Z feet	Distance feet	AN a.c. dBA
1	-200.000	3.28080	0.00000	51.6327
2	-199.000	3.28080	1.00000	51.6564
3	-198.000	3.28080	2.00000	51.6802
4	-197.000	3.28080	3.00000	51.7042
5	-196.000	3.28080	4.00000	51.7282
6	-195.000	3.28080	5.00000	51.7524
7	-194.000	3.28080	6.00000	51.7766
8	-193.000	3.28080	7.00000	51.8010
9	-192.000	3.28080	8.00000	51.8255
10	-191.000	3.28080	9.00000	51.8501
11	-190.000	3.28080	10.0000	51.8748
12	-189.000	3.28080	11.0000	51.8997
13	-188.000	3.28080	12.0000	51.9246
14	-187.000	3.28080	13.0000	51.9497
15	-186.000	3.28080	14.0000	51.9749
16	-185.000	3.28080	15.0000	52.0002
17	-184.000	3.28080	16.0000	52.0256
18	-183.000	3.28080	17.0000	52.0512
19	-182.000	3.28080	18.0000	52.0769
20	-181.000	3.28080	19.0000	52.1027
21	-180.000	3.28080	20.0000	52.1286
22	-179.000	3.28080	21.0000	52.1546
23	-178.000	3.28080	22.0000	52.1808
24	-177.000	3.28080	23.0000	52.2071

25	-176.000	3.28080	24.0000	52.2336
26	-175.000	3.28080	25.0000	52.2601
27	-174.000	3.28080	26.0000	52.2869
28	-173.000	3.28080	27.0000	52.3137
29	-172.000	3.28080	28.0000	52.3407
30	-171.000	3.28080	29.0000	52.3678
31	-170.000	3.28080	30.0000	52.3950
32	-169.000	3.28080	31.0000	52.4224
33	-168.000	3.28080	32.0000	52.4499
34	-167.000	3.28080	33.0000	52.4776
35	-166.000	3.28080	34.0000	52.5054
36	-165.000	3.28080	35.0000	52.5333
37	-164.000	3.28080	36.0000	52.5614
38	-163.000	3.28080	37.0000	52.5896
39	-162.000	3.28080	38.0000	52.6180
40	-161.000	3.28080	39.0000	52.6465
41	-160.000	3.28080	40.0000	52.6752
42	-159.000	3.28080	41.0000	52.7040
43	-158.000	3.28080	42.0000	52.7330
44	-157.000	3.28080	43.0000	52.7622
45	-156.000	3.28080	44.0000	52.7914
46	-155.000	3.28080	45.0000	52.8209
47	-154.000	3.28080	46.0000	52.8505
48	-153.000	3.28080	47.0000	52.8802
49	-152.000	3.28080	48.0000	52.9102
50	-151.000	3.28080	49.0000	52.9402
51	-150.000	3.28080	50.0000	52.9705
52	-149.000	3.28080	51.0000	53.0009
53	-148.000	3.28080	52.0000	53.0314
54	-147.000	3.28080	53.0000	53.0622
55	-146.000	3.28080	54.0000	53.0931
56	-145.000	3.28080	55.0000	53.1241
57	-144.000	3.28080	56.0000	53.1554
58	-143.000	3.28080	57.0000	53.1868
59	-142.000	3.28080	58.0000	53.2184
60	-141.000	3.28080	59.0000	53.2501
61	-140.000	3.28080	60.0000	53.2821
62	-139.000	3.28080	61.0000	53.3142
63	-138.000	3.28080	62.0000	53.3465
64	-137.000	3.28080	63.0000	53.3790
65	-136.000	3.28080	64.0000	53.4116
66	-135.000	3.28080	65.0000	53.4444
67	-134.000	3.28080	66.0000	53.4775
68	-133.000	3.28080	67.0000	53.5107
69	-132.000	3.28080	68.0000	53.5441
70	-131.000	3.28080	69.0000	53.5776
71	-130.000	3.28080	70.0000	53.6114
72	-129.000	3.28080	71.0000	53.6454
73	-128.000	3.28080	72.0000	53.6795
74	-127.000	3.28080	73.0000	53.7139

75	-126.000	3.28080	74.0000	53.7484
76	-125.000	3.28080	75.0000	53.7831
77	-124.000	3.28080	76.0000	53.8181
78	-123.000	3.28080	77.0000	53.8532
79	-122.000	3.28080	78.0000	53.8885
80	-121.000	3.28080	79.0000	53.9241
81	-120.000	3.28080	80.0000	53.9598
82	-119.000	3.28080	81.0000	53.9957
83	-118.000	3.28080	82.0000	54.0318
84	-117.000	3.28080	83.0000	54.0682
85	-116.000	3.28080	84.0000	54.1047
86	-115.000	3.28080	85.0000	54.1415
87	-114.000	3.28080	86.0000	54.1784
88	-113.000	3.28080	87.0000	54.2156
89	-112.000	3.28080	88.0000	54.2529
90	-111.000	3.28080	89.0000	54.2905
91	-110.000	3.28080	90.0000	54.3282
92	-109.000	3.28080	91.0000	54.3662
93	-108.000	3.28080	92.0000	54.4044
94	-107.000	3.28080	93.0000	54.4428
95	-106.000	3.28080	94.0000	54.4814
96	-105.000	3.28080	95.0000	54.5202
97	-104.000	3.28080	96.0000	54.5592
98	-103.000	3.28080	97.0000	54.5984
99	-102.000	3.28080	98.0000	54.6378
100	-101.000	3.28080	99.0000	54.6775
101	-100.000	3.28080	100.000	54.7173
102	-99.0000	3.28080	101.000	54.7573
103	-98.0000	3.28080	102.000	54.7975
104	-97.0000	3.28080	103.000	54.8380
105	-96.0000	3.28080	104.000	54.8786
106	-95.0000	3.28080	105.000	54.9194
107	-94.0000	3.28080	106.000	54.9604
108	-93.0000	3.28080	107.000	55.0016
109	-92.0000	3.28080	108.000	55.0430
110	-91.0000	3.28080	109.000	55.0845
111	-90.0000	3.28080	110.000	55.1262
112	-89.0000	3.28080	111.000	55.1681
113	-88.0000	3.28080	112.000	55.2102
114	-87.0000	3.28080	113.000	55.2525
115	-86.0000	3.28080	114.000	55.2949
116	-85.0000	3.28080	115.000	55.3374
117	-84.0000	3.28080	116.000	55.3801
118	-83.0000	3.28080	117.000	55.4230
119	-82.0000	3.28080	118.000	55.4659
120	-81.0000	3.28080	119.000	55.5090
121	-80.0000	3.28080	120.000	55.5523
122	-79.0000	3.28080	121.000	55.5956
123	-78.0000	3.28080	122.000	55.6390
124	-77.0000	3.28080	123.000	55.6826

125	-76.0000	3.28080	124.000	55.7262
126	-75.0000	3.28080	125.000	55.7699
127	-74.0000	3.28080	126.000	55.8136
128	-73.0000	3.28080	127.000	55.8574
129	-72.0000	3.28080	128.000	55.9013
130	-71.0000	3.28080	129.000	55.9451
131	-70.0000	3.28080	130.000	55.9890
132	-69.0000	3.28080	131.000	56.0329
133	-68.0000	3.28080	132.000	56.0767
134	-67.0000	3.28080	133.000	56.1206
135	-66.0000	3.28080	134.000	56.1644
136	-65.0000	3.28080	135.000	56.2081
137	-64.0000	3.28080	136.000	56.2518
138	-63.0000	3.28080	137.000	56.2953
139	-62.0000	3.28080	138.000	56.3388
140	-61.0000	3.28080	139.000	56.3821
141	-60.0000	3.28080	140.000	56.4252
142	-59.0000	3.28080	141.000	56.4682
143	-58.0000	3.28080	142.000	56.5110
144	-57.0000	3.28080	143.000	56.5536
145	-56.0000	3.28080	144.000	56.5960
146	-55.0000	3.28080	145.000	56.6381
147	-54.0000	3.28080	146.000	56.6800
148	-53.0000	3.28080	147.000	56.7215
149	-52.0000	3.28080	148.000	56.7628
150	-51.0000	3.28080	149.000	56.8037
151	-50.0000	3.28080	150.000	56.8443
152	-49.0000	3.28080	151.000	56.8845
153	-48.0000	3.28080	152.000	56.9244
154	-47.0000	3.28080	153.000	56.9638
155	-46.0000	3.28080	154.000	57.0027
156	-45.0000	3.28080	155.000	57.0413
157	-44.0000	3.28080	156.000	57.0793
158	-43.0000	3.28080	157.000	57.1169
159	-42.0000	3.28080	158.000	57.1540
160	-41.0000	3.28080	159.000	57.1905
161	-40.0000	3.28080	160.000	57.2265
162	-39.0000	3.28080	161.000	57.2620
163	-38.0000	3.28080	162.000	57.2969
164	-37.0000	3.28080	163.000	57.3311
165	-36.0000	3.28080	164.000	57.3648
166	-35.0000	3.28080	165.000	57.3978
167	-34.0000	3.28080	166.000	57.4302
168	-33.0000	3.28080	167.000	57.4620
169	-32.0000	3.28080	168.000	57.4931
170	-31.0000	3.28080	169.000	57.5234
171	-30.0000	3.28080	170.000	57.5531
172	-29.0000	3.28080	171.000	57.5821
173	-28.0000	3.28080	172.000	57.6103
174	-27.0000	3.28080	173.000	57.6378

175	-26.0000	3.28080	174.000	57.6645
176	-25.0000	3.28080	175.000	57.6904
177	-24.0000	3.28080	176.000	57.7155
178	-23.0000	3.28080	177.000	57.7398
179	-22.0000	3.28080	178.000	57.7633
180	-21.0000	3.28080	179.000	57.7859
181	-20.0000	3.28080	180.000	57.8076
182	-19.0000	3.28080	181.000	57.8284
183	-18.0000	3.28080	182.000	57.8484
184	-17.0000	3.28080	183.000	57.8673
185	-16.0000	3.28080	184.000	57.8854
186	-15.0000	3.28080	185.000	57.9024
187	-14.0000	3.28080	186.000	57.9185
188	-13.0000	3.28080	187.000	57.9336
189	-12.0000	3.28080	188.000	57.9476
190	-11.0000	3.28080	189.000	57.9606
191	-10.0000	3.28080	190.000	57.9726
192	-9.00000	3.28080	191.000	57.9834
193	-8.00000	3.28080	192.000	57.9932
194	-7.00000	3.28080	193.000	58.0018
195	-6.00000	3.28080	194.000	58.0093
196	-5.00000	3.28080	195.000	58.0157
197	-4.00000	3.28080	196.000	58.0209
198	-3.00000	3.28080	197.000	58.0250
199	-2.00000	3.28080	198.000	58.0279
200	-1.00000	3.28080	199.000	58.0297
201	0.00000	3.28080	200.000	58.0303
202	1.00000	3.28080	201.000	58.0297
203	2.00000	3.28080	202.000	58.0279
204	3.00000	3.28080	203.000	58.0250
205	4.00000	3.28080	204.000	58.0209
206	5.00000	3.28080	205.000	58.0157
207	6.00000	3.28080	206.000	58.0093
208	7.00000	3.28080	207.000	58.0018
209	8.00000	3.28080	208.000	57.9931
210	9.00000	3.28080	209.000	57.9834
211	10.0000	3.28080	210.000	57.9725
212	11.0000	3.28080	211.000	57.9606
213	12.0000	3.28080	212.000	57.9476
214	13.0000	3.28080	213.000	57.9336
215	14.0000	3.28080	214.000	57.9185
216	15.0000	3.28080	215.000	57.9024
217	16.0000	3.28080	216.000	57.8854
218	17.0000	3.28080	217.000	57.8673
219	18.0000	3.28080	218.000	57.8483
220	19.0000	3.28080	219.000	57.8284
221	20.0000	3.28080	220.000	57.8076
222	21.0000	3.28080	221.000	57.7859
223	22.0000	3.28080	222.000	57.7633
224	23.0000	3.28080	223.000	57.7398

225	24.0000	3.28080	224.000	57.7155
226	25.0000	3.28080	225.000	57.6904
227	26.0000	3.28080	226.000	57.6645
228	27.0000	3.28080	227.000	57.6378
229	28.0000	3.28080	228.000	57.6103
230	29.0000	3.28080	229.000	57.5821
231	30.0000	3.28080	230.000	57.5531
232	31.0000	3.28080	231.000	57.5234
233	32.0000	3.28080	232.000	57.4930
234	33.0000	3.28080	233.000	57.4620
235	34.0000	3.28080	234.000	57.4302
236	35.0000	3.28080	235.000	57.3978
237	36.0000	3.28080	236.000	57.3648
238	37.0000	3.28080	237.000	57.3311
239	38.0000	3.28080	238.000	57.2968
240	39.0000	3.28080	239.000	57.2620
241	40.0000	3.28080	240.000	57.2265
242	41.0000	3.28080	241.000	57.1905
243	42.0000	3.28080	242.000	57.1540
244	43.0000	3.28080	243.000	57.1169
245	44.0000	3.28080	244.000	57.0793
246	45.0000	3.28080	245.000	57.0413
247	46.0000	3.28080	246.000	57.0027
248	47.0000	3.28080	247.000	56.9637
249	48.0000	3.28080	248.000	56.9243
250	49.0000	3.28080	249.000	56.8845
251	50.0000	3.28080	250.000	56.8443
252	51.0000	3.28080	251.000	56.8037
253	52.0000	3.28080	252.000	56.7628
254	53.0000	3.28080	253.000	56.7215
255	54.0000	3.28080	254.000	56.6800
256	55.0000	3.28080	255.000	56.6381
257	56.0000	3.28080	256.000	56.5960
258	57.0000	3.28080	257.000	56.5536
259	58.0000	3.28080	258.000	56.5110
260	59.0000	3.28080	259.000	56.4682
261	60.0000	3.28080	260.000	56.4252
262	61.0000	3.28080	261.000	56.3820
263	62.0000	3.28080	262.000	56.3387
264	63.0000	3.28080	263.000	56.2953
265	64.0000	3.28080	264.000	56.2517
266	65.0000	3.28080	265.000	56.2081
267	66.0000	3.28080	266.000	56.1644
268	67.0000	3.28080	267.000	56.1206
269	68.0000	3.28080	268.000	56.0767
270	69.0000	3.28080	269.000	56.0329
271	70.0000	3.28080	270.000	55.9890
272	71.0000	3.28080	271.000	55.9451
273	72.0000	3.28080	272.000	55.9012
274	73.0000	3.28080	273.000	55.8574

275	74.0000	3.28080	274.000	55.8136
276	75.0000	3.28080	275.000	55.7698
277	76.0000	3.28080	276.000	55.7262
278	77.0000	3.28080	277.000	55.6825
279	78.0000	3.28080	278.000	55.6390
280	79.0000	3.28080	279.000	55.5956
281	80.0000	3.28080	280.000	55.5522
282	81.0000	3.28080	281.000	55.5090
283	82.0000	3.28080	282.000	55.4659
284	83.0000	3.28080	283.000	55.4229
285	84.0000	3.28080	284.000	55.3801
286	85.0000	3.28080	285.000	55.3374
287	86.0000	3.28080	286.000	55.2948
288	87.0000	3.28080	287.000	55.2524
289	88.0000	3.28080	288.000	55.2102
290	89.0000	3.28080	289.000	55.1681
291	90.0000	3.28080	290.000	55.1262
292	91.0000	3.28080	291.000	55.0845
293	92.0000	3.28080	292.000	55.0429
294	93.0000	3.28080	293.000	55.0016
295	94.0000	3.28080	294.000	54.9604
296	95.0000	3.28080	295.000	54.9194
297	96.0000	3.28080	296.000	54.8786
298	97.0000	3.28080	297.000	54.8379
299	98.0000	3.28080	298.000	54.7975
300	99.0000	3.28080	299.000	54.7573
301	100.000	3.28080	300.000	54.7173
302	101.000	3.28080	301.000	54.6775
303	102.000	3.28080	302.000	54.6378
304	103.000	3.28080	303.000	54.5984
305	104.000	3.28080	304.000	54.5592
306	105.000	3.28080	305.000	54.5202
307	106.000	3.28080	306.000	54.4814
308	107.000	3.28080	307.000	54.4428
309	108.000	3.28080	308.000	54.4044
310	109.000	3.28080	309.000	54.3662
311	110.000	3.28080	310.000	54.3282
312	111.000	3.28080	311.000	54.2905
313	112.000	3.28080	312.000	54.2529
314	113.000	3.28080	313.000	54.2155
315	114.000	3.28080	314.000	54.1784
316	115.000	3.28080	315.000	54.1414
317	116.000	3.28080	316.000	54.1047
318	117.000	3.28080	317.000	54.0682
319	118.000	3.28080	318.000	54.0318
320	119.000	3.28080	319.000	53.9957
321	120.000	3.28080	320.000	53.9598
322	121.000	3.28080	321.000	53.9240
323	122.000	3.28080	322.000	53.8885
324	123.000	3.28080	323.000	53.8532

325	124.000	3.28080	324.000	53.8181
326	125.000	3.28080	325.000	53.7831
327	126.000	3.28080	326.000	53.7484
328	127.000	3.28080	327.000	53.7139
329	128.000	3.28080	328.000	53.6795
330	129.000	3.28080	329.000	53.6454
331	130.000	3.28080	330.000	53.6114
332	131.000	3.28080	331.000	53.5776
333	132.000	3.28080	332.000	53.5440
334	133.000	3.28080	333.000	53.5107
335	134.000	3.28080	334.000	53.4775
336	135.000	3.28080	335.000	53.4444
337	136.000	3.28080	336.000	53.4116
338	137.000	3.28080	337.000	53.3789
339	138.000	3.28080	338.000	53.3465
340	139.000	3.28080	339.000	53.3142
341	140.000	3.28080	340.000	53.2821
342	141.000	3.28080	341.000	53.2501
343	142.000	3.28080	342.000	53.2184
344	143.000	3.28080	343.000	53.1868
345	144.000	3.28080	344.000	53.1554
346	145.000	3.28080	345.000	53.1241
347	146.000	3.28080	346.000	53.0931
348	147.000	3.28080	347.000	53.0622
349	148.000	3.28080	348.000	53.0314
350	149.000	3.28080	349.000	53.0009
351	150.000	3.28080	350.000	52.9705
352	151.000	3.28080	351.000	52.9402
353	152.000	3.28080	352.000	52.9101
354	153.000	3.28080	353.000	52.8802
355	154.000	3.28080	354.000	52.8505
356	155.000	3.28080	355.000	52.8209
357	156.000	3.28080	356.000	52.7914
358	157.000	3.28080	357.000	52.7621
359	158.000	3.28080	358.000	52.7330
360	159.000	3.28080	359.000	52.7040
361	160.000	3.28080	360.000	52.6752
362	161.000	3.28080	361.000	52.6465
363	162.000	3.28080	362.000	52.6180
364	163.000	3.28080	363.000	52.5896
365	164.000	3.28080	364.000	52.5614
366	165.000	3.28080	365.000	52.5333
367	166.000	3.28080	366.000	52.5054
368	167.000	3.28080	367.000	52.4776
369	168.000	3.28080	368.000	52.4499
370	169.000	3.28080	369.000	52.4224
371	170.000	3.28080	370.000	52.3950
372	171.000	3.28080	371.000	52.3678
373	172.000	3.28080	372.000	52.3406
374	173.000	3.28080	373.000	52.3137

375	174.000	3.28080	374.000	52.2868
376	175.000	3.28080	375.000	52.2601
377	176.000	3.28080	376.000	52.2336
378	177.000	3.28080	377.000	52.2071
379	178.000	3.28080	378.000	52.1808
380	179.000	3.28080	379.000	52.1546
381	180.000	3.28080	380.000	52.1286
382	181.000	3.28080	381.000	52.1026
383	182.000	3.28080	382.000	52.0768
384	183.000	3.28080	383.000	52.0512
385	184.000	3.28080	384.000	52.0256
386	185.000	3.28080	385.000	52.0002
387	186.000	3.28080	386.000	51.9749
388	187.000	3.28080	387.000	51.9497
389	188.000	3.28080	388.000	51.9246
390	189.000	3.28080	389.000	51.8996
391	190.000	3.28080	390.000	51.8748
392	191.000	3.28080	391.000	51.8501
393	192.000	3.28080	392.000	51.8255
394	193.000	3.28080	393.000	51.8010
395	194.000	3.28080	394.000	51.7766
396	195.000	3.28080	395.000	51.7523
397	196.000	3.28080	396.000	51.7282
398	197.000	3.28080	397.000	51.7041
399	198.000	3.28080	398.000	51.6802
400	199.000	3.28080	399.000	51.6564
401	200.000	3.28080	400.000	51.6327

SES-ENVIRO package - PAGE 83

RUN:

Calculation of the AC audible noise level by an empirical method.

Weather conditions: L50 RAIN (wet conductors)

BPA-E empirical method

Audible Noise Profile no. 1 (A.C. Line)

Points No.	Y feet	Z feet	Distance feet	AN a.c. dBA
1	-200.000	3.28080	0.00000	48.1327
2	-199.000	3.28080	1.00000	48.1564
3	-198.000	3.28080	2.00000	48.1802
4	-197.000	3.28080	3.00000	48.2042
5	-196.000	3.28080	4.00000	48.2282
6	-195.000	3.28080	5.00000	48.2524
7	-194.000	3.28080	6.00000	48.2766
8	-193.000	3.28080	7.00000	48.3010
9	-192.000	3.28080	8.00000	48.3255
10	-191.000	3.28080	9.00000	48.3501
11	-190.000	3.28080	10.0000	48.3748
12	-189.000	3.28080	11.0000	48.3997
13	-188.000	3.28080	12.0000	48.4246
14	-187.000	3.28080	13.0000	48.4497
15	-186.000	3.28080	14.0000	48.4749
16	-185.000	3.28080	15.0000	48.5002
17	-184.000	3.28080	16.0000	48.5256
18	-183.000	3.28080	17.0000	48.5512
19	-182.000	3.28080	18.0000	48.5769
20	-181.000	3.28080	19.0000	48.6027
21	-180.000	3.28080	20.0000	48.6286
22	-179.000	3.28080	21.0000	48.6546
23	-178.000	3.28080	22.0000	48.6808
24	-177.000	3.28080	23.0000	48.7071
25	-176.000	3.28080	24.0000	48.7336
26	-175.000	3.28080	25.0000	48.7601
27	-174.000	3.28080	26.0000	48.7869
28	-173.000	3.28080	27.0000	48.8137
29	-172.000	3.28080	28.0000	48.8407
30	-171.000	3.28080	29.0000	48.8678
31	-170.000	3.28080	30.0000	48.8950
32	-169.000	3.28080	31.0000	48.9224
33	-168.000	3.28080	32.0000	48.9499
34	-167.000	3.28080	33.0000	48.9776
35	-166.000	3.28080	34.0000	49.0054
36	-165.000	3.28080	35.0000	49.0333
37	-164.000	3.28080	36.0000	49.0614
38	-163.000	3.28080	37.0000	49.0896
39	-162.000	3.28080	38.0000	49.1180
40	-161.000	3.28080	39.0000	49.1465
41	-160.000	3.28080	40.0000	49.1752
42	-159.000	3.28080	41.0000	49.2040
43	-158.000	3.28080	42.0000	49.2330

44	-157.000	3.28080	43.0000	49.2622
45	-156.000	3.28080	44.0000	49.2914
46	-155.000	3.28080	45.0000	49.3209
47	-154.000	3.28080	46.0000	49.3505
48	-153.000	3.28080	47.0000	49.3802
49	-152.000	3.28080	48.0000	49.4102
50	-151.000	3.28080	49.0000	49.4402
51	-150.000	3.28080	50.0000	49.4705
52	-149.000	3.28080	51.0000	49.5009
53	-148.000	3.28080	52.0000	49.5314
54	-147.000	3.28080	53.0000	49.5622
55	-146.000	3.28080	54.0000	49.5931
56	-145.000	3.28080	55.0000	49.6241
57	-144.000	3.28080	56.0000	49.6554
58	-143.000	3.28080	57.0000	49.6868
59	-142.000	3.28080	58.0000	49.7184
60	-141.000	3.28080	59.0000	49.7501
61	-140.000	3.28080	60.0000	49.7821
62	-139.000	3.28080	61.0000	49.8142
63	-138.000	3.28080	62.0000	49.8465
64	-137.000	3.28080	63.0000	49.8790
65	-136.000	3.28080	64.0000	49.9116
66	-135.000	3.28080	65.0000	49.9444
67	-134.000	3.28080	66.0000	49.9775
68	-133.000	3.28080	67.0000	50.0107
69	-132.000	3.28080	68.0000	50.0441
70	-131.000	3.28080	69.0000	50.0776
71	-130.000	3.28080	70.0000	50.1114
72	-129.000	3.28080	71.0000	50.1454
73	-128.000	3.28080	72.0000	50.1795
74	-127.000	3.28080	73.0000	50.2139
75	-126.000	3.28080	74.0000	50.2484
76	-125.000	3.28080	75.0000	50.2831
77	-124.000	3.28080	76.0000	50.3181
78	-123.000	3.28080	77.0000	50.3532
79	-122.000	3.28080	78.0000	50.3885
80	-121.000	3.28080	79.0000	50.4241
81	-120.000	3.28080	80.0000	50.4598
82	-119.000	3.28080	81.0000	50.4957
83	-118.000	3.28080	82.0000	50.5318
84	-117.000	3.28080	83.0000	50.5682
85	-116.000	3.28080	84.0000	50.6047
86	-115.000	3.28080	85.0000	50.6415
87	-114.000	3.28080	86.0000	50.6784
88	-113.000	3.28080	87.0000	50.7156
89	-112.000	3.28080	88.0000	50.7529
90	-111.000	3.28080	89.0000	50.7905
91	-110.000	3.28080	90.0000	50.8282
92	-109.000	3.28080	91.0000	50.8662
93	-108.000	3.28080	92.0000	50.9044

94	-107.000	3.28080	93.0000	50.9428
95	-106.000	3.28080	94.0000	50.9814
96	-105.000	3.28080	95.0000	51.0202
97	-104.000	3.28080	96.0000	51.0592
98	-103.000	3.28080	97.0000	51.0984
99	-102.000	3.28080	98.0000	51.1378
100	-101.000	3.28080	99.0000	51.1775
101	-100.000	3.28080	100.000	51.2173
102	-99.0000	3.28080	101.000	51.2573
103	-98.0000	3.28080	102.000	51.2975
104	-97.0000	3.28080	103.000	51.3380
105	-96.0000	3.28080	104.000	51.3786
106	-95.0000	3.28080	105.000	51.4194
107	-94.0000	3.28080	106.000	51.4604
108	-93.0000	3.28080	107.000	51.5016
109	-92.0000	3.28080	108.000	51.5430
110	-91.0000	3.28080	109.000	51.5845
111	-90.0000	3.28080	110.000	51.6262
112	-89.0000	3.28080	111.000	51.6681
113	-88.0000	3.28080	112.000	51.7102
114	-87.0000	3.28080	113.000	51.7525
115	-86.0000	3.28080	114.000	51.7949
116	-85.0000	3.28080	115.000	51.8374
117	-84.0000	3.28080	116.000	51.8801
118	-83.0000	3.28080	117.000	51.9230
119	-82.0000	3.28080	118.000	51.9659
120	-81.0000	3.28080	119.000	52.0090
121	-80.0000	3.28080	120.000	52.0523
122	-79.0000	3.28080	121.000	52.0956
123	-78.0000	3.28080	122.000	52.1390
124	-77.0000	3.28080	123.000	52.1826
125	-76.0000	3.28080	124.000	52.2262
126	-75.0000	3.28080	125.000	52.2699
127	-74.0000	3.28080	126.000	52.3136
128	-73.0000	3.28080	127.000	52.3574
129	-72.0000	3.28080	128.000	52.4013
130	-71.0000	3.28080	129.000	52.4451
131	-70.0000	3.28080	130.000	52.4890
132	-69.0000	3.28080	131.000	52.5329
133	-68.0000	3.28080	132.000	52.5767
134	-67.0000	3.28080	133.000	52.6206
135	-66.0000	3.28080	134.000	52.6644
136	-65.0000	3.28080	135.000	52.7081
137	-64.0000	3.28080	136.000	52.7518
138	-63.0000	3.28080	137.000	52.7953
139	-62.0000	3.28080	138.000	52.8388
140	-61.0000	3.28080	139.000	52.8821
141	-60.0000	3.28080	140.000	52.9252
142	-59.0000	3.28080	141.000	52.9682
143	-58.0000	3.28080	142.000	53.0110

144	-57.0000	3.28080	143.000	53.0536
145	-56.0000	3.28080	144.000	53.0960
146	-55.0000	3.28080	145.000	53.1381
147	-54.0000	3.28080	146.000	53.1800
148	-53.0000	3.28080	147.000	53.2215
149	-52.0000	3.28080	148.000	53.2628
150	-51.0000	3.28080	149.000	53.3037
151	-50.0000	3.28080	150.000	53.3443
152	-49.0000	3.28080	151.000	53.3845
153	-48.0000	3.28080	152.000	53.4244
154	-47.0000	3.28080	153.000	53.4638
155	-46.0000	3.28080	154.000	53.5027
156	-45.0000	3.28080	155.000	53.5413
157	-44.0000	3.28080	156.000	53.5793
158	-43.0000	3.28080	157.000	53.6169
159	-42.0000	3.28080	158.000	53.6540
160	-41.0000	3.28080	159.000	53.6905
161	-40.0000	3.28080	160.000	53.7265
162	-39.0000	3.28080	161.000	53.7620
163	-38.0000	3.28080	162.000	53.7969
164	-37.0000	3.28080	163.000	53.8311
165	-36.0000	3.28080	164.000	53.8648
166	-35.0000	3.28080	165.000	53.8978
167	-34.0000	3.28080	166.000	53.9302
168	-33.0000	3.28080	167.000	53.9620
169	-32.0000	3.28080	168.000	53.9931
170	-31.0000	3.28080	169.000	54.0234
171	-30.0000	3.28080	170.000	54.0531
172	-29.0000	3.28080	171.000	54.0821
173	-28.0000	3.28080	172.000	54.1103
174	-27.0000	3.28080	173.000	54.1378
175	-26.0000	3.28080	174.000	54.1645
176	-25.0000	3.28080	175.000	54.1904
177	-24.0000	3.28080	176.000	54.2155
178	-23.0000	3.28080	177.000	54.2398
179	-22.0000	3.28080	178.000	54.2633
180	-21.0000	3.28080	179.000	54.2859
181	-20.0000	3.28080	180.000	54.3076
182	-19.0000	3.28080	181.000	54.3284
183	-18.0000	3.28080	182.000	54.3484
184	-17.0000	3.28080	183.000	54.3673
185	-16.0000	3.28080	184.000	54.3854
186	-15.0000	3.28080	185.000	54.4024
187	-14.0000	3.28080	186.000	54.4185
188	-13.0000	3.28080	187.000	54.4336
189	-12.0000	3.28080	188.000	54.4476
190	-11.0000	3.28080	189.000	54.4606
191	-10.0000	3.28080	190.000	54.4726
192	-9.00000	3.28080	191.000	54.4834
193	-8.00000	3.28080	192.000	54.4932

194	-7.00000	3.28080	193.000	54.5018
195	-6.00000	3.28080	194.000	54.5093
196	-5.00000	3.28080	195.000	54.5157
197	-4.00000	3.28080	196.000	54.5209
198	-3.00000	3.28080	197.000	54.5250
199	-2.00000	3.28080	198.000	54.5279
200	-1.00000	3.28080	199.000	54.5297
201	0.00000	3.28080	200.000	54.5303
202	1.00000	3.28080	201.000	54.5297
203	2.00000	3.28080	202.000	54.5279
204	3.00000	3.28080	203.000	54.5250
205	4.00000	3.28080	204.000	54.5209
206	5.00000	3.28080	205.000	54.5157
207	6.00000	3.28080	206.000	54.5093
208	7.00000	3.28080	207.000	54.5018
209	8.00000	3.28080	208.000	54.4931
210	9.00000	3.28080	209.000	54.4834
211	10.00000	3.28080	210.000	54.4725
212	11.00000	3.28080	211.000	54.4606
213	12.00000	3.28080	212.000	54.4476
214	13.00000	3.28080	213.000	54.4336
215	14.00000	3.28080	214.000	54.4185
216	15.00000	3.28080	215.000	54.4024
217	16.00000	3.28080	216.000	54.3854
218	17.00000	3.28080	217.000	54.3673
219	18.00000	3.28080	218.000	54.3483
220	19.00000	3.28080	219.000	54.3284
221	20.00000	3.28080	220.000	54.3076
222	21.00000	3.28080	221.000	54.2859
223	22.00000	3.28080	222.000	54.2633
224	23.00000	3.28080	223.000	54.2398
225	24.00000	3.28080	224.000	54.2155
226	25.00000	3.28080	225.000	54.1904
227	26.00000	3.28080	226.000	54.1645
228	27.00000	3.28080	227.000	54.1378
229	28.00000	3.28080	228.000	54.1103
230	29.00000	3.28080	229.000	54.0821
231	30.00000	3.28080	230.000	54.0531
232	31.00000	3.28080	231.000	54.0234
233	32.00000	3.28080	232.000	53.9930
234	33.00000	3.28080	233.000	53.9620
235	34.00000	3.28080	234.000	53.9302
236	35.00000	3.28080	235.000	53.8978
237	36.00000	3.28080	236.000	53.8648
238	37.00000	3.28080	237.000	53.8311
239	38.00000	3.28080	238.000	53.7968
240	39.00000	3.28080	239.000	53.7620
241	40.00000	3.28080	240.000	53.7265
242	41.00000	3.28080	241.000	53.6905
243	42.00000	3.28080	242.000	53.6540

244	43.0000	3.28080	243.000	53.6169
245	44.0000	3.28080	244.000	53.5793
246	45.0000	3.28080	245.000	53.5413
247	46.0000	3.28080	246.000	53.5027
248	47.0000	3.28080	247.000	53.4637
249	48.0000	3.28080	248.000	53.4243
250	49.0000	3.28080	249.000	53.3845
251	50.0000	3.28080	250.000	53.3443
252	51.0000	3.28080	251.000	53.3037
253	52.0000	3.28080	252.000	53.2628
254	53.0000	3.28080	253.000	53.2215
255	54.0000	3.28080	254.000	53.1800
256	55.0000	3.28080	255.000	53.1381
257	56.0000	3.28080	256.000	53.0960
258	57.0000	3.28080	257.000	53.0536
259	58.0000	3.28080	258.000	53.0110
260	59.0000	3.28080	259.000	52.9682
261	60.0000	3.28080	260.000	52.9252
262	61.0000	3.28080	261.000	52.8820
263	62.0000	3.28080	262.000	52.8387
264	63.0000	3.28080	263.000	52.7953
265	64.0000	3.28080	264.000	52.7517
266	65.0000	3.28080	265.000	52.7081
267	66.0000	3.28080	266.000	52.6644
268	67.0000	3.28080	267.000	52.6206
269	68.0000	3.28080	268.000	52.5767
270	69.0000	3.28080	269.000	52.5329
271	70.0000	3.28080	270.000	52.4890
272	71.0000	3.28080	271.000	52.4451
273	72.0000	3.28080	272.000	52.4012
274	73.0000	3.28080	273.000	52.3574
275	74.0000	3.28080	274.000	52.3136
276	75.0000	3.28080	275.000	52.2698
277	76.0000	3.28080	276.000	52.2262
278	77.0000	3.28080	277.000	52.1825
279	78.0000	3.28080	278.000	52.1390
280	79.0000	3.28080	279.000	52.0956
281	80.0000	3.28080	280.000	52.0522
282	81.0000	3.28080	281.000	52.0090
283	82.0000	3.28080	282.000	51.9659
284	83.0000	3.28080	283.000	51.9229
285	84.0000	3.28080	284.000	51.8801
286	85.0000	3.28080	285.000	51.8374
287	86.0000	3.28080	286.000	51.7948
288	87.0000	3.28080	287.000	51.7524
289	88.0000	3.28080	288.000	51.7102
290	89.0000	3.28080	289.000	51.6681
291	90.0000	3.28080	290.000	51.6262
292	91.0000	3.28080	291.000	51.5845
293	92.0000	3.28080	292.000	51.5429

294	93.0000	3.28080	293.000	51.5016
295	94.0000	3.28080	294.000	51.4604
296	95.0000	3.28080	295.000	51.4194
297	96.0000	3.28080	296.000	51.3786
298	97.0000	3.28080	297.000	51.3379
299	98.0000	3.28080	298.000	51.2975
300	99.0000	3.28080	299.000	51.2573
301	100.000	3.28080	300.000	51.2173
302	101.000	3.28080	301.000	51.1775
303	102.000	3.28080	302.000	51.1378
304	103.000	3.28080	303.000	51.0984
305	104.000	3.28080	304.000	51.0592
306	105.000	3.28080	305.000	51.0202
307	106.000	3.28080	306.000	50.9814
308	107.000	3.28080	307.000	50.9428
309	108.000	3.28080	308.000	50.9044
310	109.000	3.28080	309.000	50.8662
311	110.000	3.28080	310.000	50.8282
312	111.000	3.28080	311.000	50.7905
313	112.000	3.28080	312.000	50.7529
314	113.000	3.28080	313.000	50.7155
315	114.000	3.28080	314.000	50.6784
316	115.000	3.28080	315.000	50.6414
317	116.000	3.28080	316.000	50.6047
318	117.000	3.28080	317.000	50.5682
319	118.000	3.28080	318.000	50.5318
320	119.000	3.28080	319.000	50.4957
321	120.000	3.28080	320.000	50.4598
322	121.000	3.28080	321.000	50.4240
323	122.000	3.28080	322.000	50.3885
324	123.000	3.28080	323.000	50.3532
325	124.000	3.28080	324.000	50.3181
326	125.000	3.28080	325.000	50.2831
327	126.000	3.28080	326.000	50.2484
328	127.000	3.28080	327.000	50.2139
329	128.000	3.28080	328.000	50.1795
330	129.000	3.28080	329.000	50.1454
331	130.000	3.28080	330.000	50.1114
332	131.000	3.28080	331.000	50.0776
333	132.000	3.28080	332.000	50.0440
334	133.000	3.28080	333.000	50.0107
335	134.000	3.28080	334.000	49.9775
336	135.000	3.28080	335.000	49.9444
337	136.000	3.28080	336.000	49.9116
338	137.000	3.28080	337.000	49.8789
339	138.000	3.28080	338.000	49.8465
340	139.000	3.28080	339.000	49.8142
341	140.000	3.28080	340.000	49.7821
342	141.000	3.28080	341.000	49.7501
343	142.000	3.28080	342.000	49.7184

344	143.000	3.28080	343.000	49.6868
345	144.000	3.28080	344.000	49.6554
346	145.000	3.28080	345.000	49.6241
347	146.000	3.28080	346.000	49.5931
348	147.000	3.28080	347.000	49.5622
349	148.000	3.28080	348.000	49.5314
350	149.000	3.28080	349.000	49.5009
351	150.000	3.28080	350.000	49.4705
352	151.000	3.28080	351.000	49.4402
353	152.000	3.28080	352.000	49.4101
354	153.000	3.28080	353.000	49.3802
355	154.000	3.28080	354.000	49.3505
356	155.000	3.28080	355.000	49.3209
357	156.000	3.28080	356.000	49.2914
358	157.000	3.28080	357.000	49.2621
359	158.000	3.28080	358.000	49.2330
360	159.000	3.28080	359.000	49.2040
361	160.000	3.28080	360.000	49.1752
362	161.000	3.28080	361.000	49.1465
363	162.000	3.28080	362.000	49.1180
364	163.000	3.28080	363.000	49.0896
365	164.000	3.28080	364.000	49.0614
366	165.000	3.28080	365.000	49.0333
367	166.000	3.28080	366.000	49.0054
368	167.000	3.28080	367.000	48.9776
369	168.000	3.28080	368.000	48.9499
370	169.000	3.28080	369.000	48.9224
371	170.000	3.28080	370.000	48.8950
372	171.000	3.28080	371.000	48.8678
373	172.000	3.28080	372.000	48.8406
374	173.000	3.28080	373.000	48.8137
375	174.000	3.28080	374.000	48.7868
376	175.000	3.28080	375.000	48.7601
377	176.000	3.28080	376.000	48.7336
378	177.000	3.28080	377.000	48.7071
379	178.000	3.28080	378.000	48.6808
380	179.000	3.28080	379.000	48.6546
381	180.000	3.28080	380.000	48.6286
382	181.000	3.28080	381.000	48.6026
383	182.000	3.28080	382.000	48.5768
384	183.000	3.28080	383.000	48.5512
385	184.000	3.28080	384.000	48.5256
386	185.000	3.28080	385.000	48.5002
387	186.000	3.28080	386.000	48.4749
388	187.000	3.28080	387.000	48.4497
389	188.000	3.28080	388.000	48.4246
390	189.000	3.28080	389.000	48.3996
391	190.000	3.28080	390.000	48.3748
392	191.000	3.28080	391.000	48.3501
393	192.000	3.28080	392.000	48.3255

394	193.000	3.28080	393.000	48.3010
395	194.000	3.28080	394.000	48.2766
396	195.000	3.28080	395.000	48.2523
397	196.000	3.28080	396.000	48.2282
398	197.000	3.28080	397.000	48.2041
399	198.000	3.28080	398.000	48.1802
400	199.000	3.28080	399.000	48.1564
401	200.000	3.28080	400.000	48.1327

SES-ENVIRO package - PAGE 84

RUN:

Calculation of the AC audible noise level by an empirical method.

Weather conditions: FAIR (dry conductors)

BPA-E empirical method

Audible Noise Profile no. 1 (A.C. Line)

Points No.	Y feet	Z feet	Distance feet	AN a.c. dBA
1	-200.000	3.28080	0.00000	23.1327
2	-199.000	3.28080	1.00000	23.1564
3	-198.000	3.28080	2.00000	23.1802
4	-197.000	3.28080	3.00000	23.2042
5	-196.000	3.28080	4.00000	23.2282
6	-195.000	3.28080	5.00000	23.2524
7	-194.000	3.28080	6.00000	23.2766
8	-193.000	3.28080	7.00000	23.3010
9	-192.000	3.28080	8.00000	23.3255
10	-191.000	3.28080	9.00000	23.3501
11	-190.000	3.28080	10.0000	23.3748
12	-189.000	3.28080	11.0000	23.3997

13	-188.000	3.28080	12.0000	23.4246
14	-187.000	3.28080	13.0000	23.4497
15	-186.000	3.28080	14.0000	23.4749
16	-185.000	3.28080	15.0000	23.5002
17	-184.000	3.28080	16.0000	23.5256
18	-183.000	3.28080	17.0000	23.5512
19	-182.000	3.28080	18.0000	23.5769
20	-181.000	3.28080	19.0000	23.6027
21	-180.000	3.28080	20.0000	23.6286
22	-179.000	3.28080	21.0000	23.6546
23	-178.000	3.28080	22.0000	23.6808
24	-177.000	3.28080	23.0000	23.7071
25	-176.000	3.28080	24.0000	23.7336
26	-175.000	3.28080	25.0000	23.7601
27	-174.000	3.28080	26.0000	23.7869
28	-173.000	3.28080	27.0000	23.8137
29	-172.000	3.28080	28.0000	23.8407
30	-171.000	3.28080	29.0000	23.8678
31	-170.000	3.28080	30.0000	23.8950
32	-169.000	3.28080	31.0000	23.9224
33	-168.000	3.28080	32.0000	23.9499
34	-167.000	3.28080	33.0000	23.9776
35	-166.000	3.28080	34.0000	24.0054
36	-165.000	3.28080	35.0000	24.0333
37	-164.000	3.28080	36.0000	24.0614
38	-163.000	3.28080	37.0000	24.0896
39	-162.000	3.28080	38.0000	24.1180
40	-161.000	3.28080	39.0000	24.1465
41	-160.000	3.28080	40.0000	24.1752
42	-159.000	3.28080	41.0000	24.2040
43	-158.000	3.28080	42.0000	24.2330
44	-157.000	3.28080	43.0000	24.2622
45	-156.000	3.28080	44.0000	24.2914
46	-155.000	3.28080	45.0000	24.3209
47	-154.000	3.28080	46.0000	24.3505
48	-153.000	3.28080	47.0000	24.3802
49	-152.000	3.28080	48.0000	24.4102
50	-151.000	3.28080	49.0000	24.4402
51	-150.000	3.28080	50.0000	24.4705
52	-149.000	3.28080	51.0000	24.5009
53	-148.000	3.28080	52.0000	24.5314
54	-147.000	3.28080	53.0000	24.5622
55	-146.000	3.28080	54.0000	24.5931
56	-145.000	3.28080	55.0000	24.6241
57	-144.000	3.28080	56.0000	24.6554
58	-143.000	3.28080	57.0000	24.6868
59	-142.000	3.28080	58.0000	24.7184
60	-141.000	3.28080	59.0000	24.7501
61	-140.000	3.28080	60.0000	24.7821
62	-139.000	3.28080	61.0000	24.8142

63	-138.000	3.28080	62.0000	24.8465
64	-137.000	3.28080	63.0000	24.8790
65	-136.000	3.28080	64.0000	24.9116
66	-135.000	3.28080	65.0000	24.9444
67	-134.000	3.28080	66.0000	24.9775
68	-133.000	3.28080	67.0000	25.0107
69	-132.000	3.28080	68.0000	25.0441
70	-131.000	3.28080	69.0000	25.0776
71	-130.000	3.28080	70.0000	25.1114
72	-129.000	3.28080	71.0000	25.1454
73	-128.000	3.28080	72.0000	25.1795
74	-127.000	3.28080	73.0000	25.2139
75	-126.000	3.28080	74.0000	25.2484
76	-125.000	3.28080	75.0000	25.2831
77	-124.000	3.28080	76.0000	25.3181
78	-123.000	3.28080	77.0000	25.3532
79	-122.000	3.28080	78.0000	25.3885
80	-121.000	3.28080	79.0000	25.4241
81	-120.000	3.28080	80.0000	25.4598
82	-119.000	3.28080	81.0000	25.4957
83	-118.000	3.28080	82.0000	25.5318
84	-117.000	3.28080	83.0000	25.5682
85	-116.000	3.28080	84.0000	25.6047
86	-115.000	3.28080	85.0000	25.6415
87	-114.000	3.28080	86.0000	25.6784
88	-113.000	3.28080	87.0000	25.7156
89	-112.000	3.28080	88.0000	25.7529
90	-111.000	3.28080	89.0000	25.7905
91	-110.000	3.28080	90.0000	25.8282
92	-109.000	3.28080	91.0000	25.8662
93	-108.000	3.28080	92.0000	25.9044
94	-107.000	3.28080	93.0000	25.9428
95	-106.000	3.28080	94.0000	25.9814
96	-105.000	3.28080	95.0000	26.0202
97	-104.000	3.28080	96.0000	26.0592
98	-103.000	3.28080	97.0000	26.0984
99	-102.000	3.28080	98.0000	26.1378
100	-101.000	3.28080	99.0000	26.1775
101	-100.000	3.28080	100.000	26.2173
102	-99.0000	3.28080	101.000	26.2573
103	-98.0000	3.28080	102.000	26.2975
104	-97.0000	3.28080	103.000	26.3380
105	-96.0000	3.28080	104.000	26.3786
106	-95.0000	3.28080	105.000	26.4194
107	-94.0000	3.28080	106.000	26.4604
108	-93.0000	3.28080	107.000	26.5016
109	-92.0000	3.28080	108.000	26.5430
110	-91.0000	3.28080	109.000	26.5845
111	-90.0000	3.28080	110.000	26.6262
112	-89.0000	3.28080	111.000	26.6681

113	-88.0000	3.28080	112.000	26.7102
114	-87.0000	3.28080	113.000	26.7525
115	-86.0000	3.28080	114.000	26.7949
116	-85.0000	3.28080	115.000	26.8374
117	-84.0000	3.28080	116.000	26.8801
118	-83.0000	3.28080	117.000	26.9230
119	-82.0000	3.28080	118.000	26.9659
120	-81.0000	3.28080	119.000	27.0090
121	-80.0000	3.28080	120.000	27.0523
122	-79.0000	3.28080	121.000	27.0956
123	-78.0000	3.28080	122.000	27.1390
124	-77.0000	3.28080	123.000	27.1826
125	-76.0000	3.28080	124.000	27.2262
126	-75.0000	3.28080	125.000	27.2699
127	-74.0000	3.28080	126.000	27.3136
128	-73.0000	3.28080	127.000	27.3574
129	-72.0000	3.28080	128.000	27.4013
130	-71.0000	3.28080	129.000	27.4451
131	-70.0000	3.28080	130.000	27.4890
132	-69.0000	3.28080	131.000	27.5329
133	-68.0000	3.28080	132.000	27.5767
134	-67.0000	3.28080	133.000	27.6206
135	-66.0000	3.28080	134.000	27.6644
136	-65.0000	3.28080	135.000	27.7081
137	-64.0000	3.28080	136.000	27.7518
138	-63.0000	3.28080	137.000	27.7953
139	-62.0000	3.28080	138.000	27.8388
140	-61.0000	3.28080	139.000	27.8821
141	-60.0000	3.28080	140.000	27.9252
142	-59.0000	3.28080	141.000	27.9682
143	-58.0000	3.28080	142.000	28.0110
144	-57.0000	3.28080	143.000	28.0536
145	-56.0000	3.28080	144.000	28.0960
146	-55.0000	3.28080	145.000	28.1381
147	-54.0000	3.28080	146.000	28.1800
148	-53.0000	3.28080	147.000	28.2215
149	-52.0000	3.28080	148.000	28.2628
150	-51.0000	3.28080	149.000	28.3037
151	-50.0000	3.28080	150.000	28.3443
152	-49.0000	3.28080	151.000	28.3845
153	-48.0000	3.28080	152.000	28.4244
154	-47.0000	3.28080	153.000	28.4638
155	-46.0000	3.28080	154.000	28.5027
156	-45.0000	3.28080	155.000	28.5413
157	-44.0000	3.28080	156.000	28.5793
158	-43.0000	3.28080	157.000	28.6169
159	-42.0000	3.28080	158.000	28.6540
160	-41.0000	3.28080	159.000	28.6905
161	-40.0000	3.28080	160.000	28.7265
162	-39.0000	3.28080	161.000	28.7620

163	-38.0000	3.28080	162.000	28.7969
164	-37.0000	3.28080	163.000	28.8311
165	-36.0000	3.28080	164.000	28.8648
166	-35.0000	3.28080	165.000	28.8978
167	-34.0000	3.28080	166.000	28.9302
168	-33.0000	3.28080	167.000	28.9620
169	-32.0000	3.28080	168.000	28.9931
170	-31.0000	3.28080	169.000	29.0234
171	-30.0000	3.28080	170.000	29.0531
172	-29.0000	3.28080	171.000	29.0821
173	-28.0000	3.28080	172.000	29.1103
174	-27.0000	3.28080	173.000	29.1378
175	-26.0000	3.28080	174.000	29.1645
176	-25.0000	3.28080	175.000	29.1904
177	-24.0000	3.28080	176.000	29.2155
178	-23.0000	3.28080	177.000	29.2398
179	-22.0000	3.28080	178.000	29.2633
180	-21.0000	3.28080	179.000	29.2859
181	-20.0000	3.28080	180.000	29.3076
182	-19.0000	3.28080	181.000	29.3284
183	-18.0000	3.28080	182.000	29.3484
184	-17.0000	3.28080	183.000	29.3673
185	-16.0000	3.28080	184.000	29.3854
186	-15.0000	3.28080	185.000	29.4024
187	-14.0000	3.28080	186.000	29.4185
188	-13.0000	3.28080	187.000	29.4336
189	-12.0000	3.28080	188.000	29.4476
190	-11.0000	3.28080	189.000	29.4606
191	-10.0000	3.28080	190.000	29.4726
192	-9.00000	3.28080	191.000	29.4834
193	-8.00000	3.28080	192.000	29.4932
194	-7.00000	3.28080	193.000	29.5018
195	-6.00000	3.28080	194.000	29.5093
196	-5.00000	3.28080	195.000	29.5157
197	-4.00000	3.28080	196.000	29.5209
198	-3.00000	3.28080	197.000	29.5250
199	-2.00000	3.28080	198.000	29.5279
200	-1.00000	3.28080	199.000	29.5297
201	0.00000	3.28080	200.000	29.5303
202	1.00000	3.28080	201.000	29.5297
203	2.00000	3.28080	202.000	29.5279
204	3.00000	3.28080	203.000	29.5250
205	4.00000	3.28080	204.000	29.5209
206	5.00000	3.28080	205.000	29.5157
207	6.00000	3.28080	206.000	29.5093
208	7.00000	3.28080	207.000	29.5018
209	8.00000	3.28080	208.000	29.4931
210	9.00000	3.28080	209.000	29.4834
211	10.0000	3.28080	210.000	29.4725
212	11.0000	3.28080	211.000	29.4606

213	12.0000	3.28080	212.000	29.4476
214	13.0000	3.28080	213.000	29.4336
215	14.0000	3.28080	214.000	29.4185
216	15.0000	3.28080	215.000	29.4024
217	16.0000	3.28080	216.000	29.3854
218	17.0000	3.28080	217.000	29.3673
219	18.0000	3.28080	218.000	29.3483
220	19.0000	3.28080	219.000	29.3284
221	20.0000	3.28080	220.000	29.3076
222	21.0000	3.28080	221.000	29.2859
223	22.0000	3.28080	222.000	29.2633
224	23.0000	3.28080	223.000	29.2398
225	24.0000	3.28080	224.000	29.2155
226	25.0000	3.28080	225.000	29.1904
227	26.0000	3.28080	226.000	29.1645
228	27.0000	3.28080	227.000	29.1378
229	28.0000	3.28080	228.000	29.1103
230	29.0000	3.28080	229.000	29.0821
231	30.0000	3.28080	230.000	29.0531
232	31.0000	3.28080	231.000	29.0234
233	32.0000	3.28080	232.000	28.9930
234	33.0000	3.28080	233.000	28.9620
235	34.0000	3.28080	234.000	28.9302
236	35.0000	3.28080	235.000	28.8978
237	36.0000	3.28080	236.000	28.8648
238	37.0000	3.28080	237.000	28.8311
239	38.0000	3.28080	238.000	28.7968
240	39.0000	3.28080	239.000	28.7620
241	40.0000	3.28080	240.000	28.7265
242	41.0000	3.28080	241.000	28.6905
243	42.0000	3.28080	242.000	28.6540
244	43.0000	3.28080	243.000	28.6169
245	44.0000	3.28080	244.000	28.5793
246	45.0000	3.28080	245.000	28.5413
247	46.0000	3.28080	246.000	28.5027
248	47.0000	3.28080	247.000	28.4637
249	48.0000	3.28080	248.000	28.4243
250	49.0000	3.28080	249.000	28.3845
251	50.0000	3.28080	250.000	28.3443
252	51.0000	3.28080	251.000	28.3037
253	52.0000	3.28080	252.000	28.2628
254	53.0000	3.28080	253.000	28.2215
255	54.0000	3.28080	254.000	28.1800
256	55.0000	3.28080	255.000	28.1381
257	56.0000	3.28080	256.000	28.0960
258	57.0000	3.28080	257.000	28.0536
259	58.0000	3.28080	258.000	28.0110
260	59.0000	3.28080	259.000	27.9682
261	60.0000	3.28080	260.000	27.9252
262	61.0000	3.28080	261.000	27.8820

263	62.0000	3.28080	262.000	27.8387
264	63.0000	3.28080	263.000	27.7953
265	64.0000	3.28080	264.000	27.7517
266	65.0000	3.28080	265.000	27.7081
267	66.0000	3.28080	266.000	27.6644
268	67.0000	3.28080	267.000	27.6206
269	68.0000	3.28080	268.000	27.5767
270	69.0000	3.28080	269.000	27.5329
271	70.0000	3.28080	270.000	27.4890
272	71.0000	3.28080	271.000	27.4451
273	72.0000	3.28080	272.000	27.4012
274	73.0000	3.28080	273.000	27.3574
275	74.0000	3.28080	274.000	27.3136
276	75.0000	3.28080	275.000	27.2698
277	76.0000	3.28080	276.000	27.2262
278	77.0000	3.28080	277.000	27.1825
279	78.0000	3.28080	278.000	27.1390
280	79.0000	3.28080	279.000	27.0956
281	80.0000	3.28080	280.000	27.0522
282	81.0000	3.28080	281.000	27.0090
283	82.0000	3.28080	282.000	26.9659
284	83.0000	3.28080	283.000	26.9229
285	84.0000	3.28080	284.000	26.8801
286	85.0000	3.28080	285.000	26.8374
287	86.0000	3.28080	286.000	26.7948
288	87.0000	3.28080	287.000	26.7524
289	88.0000	3.28080	288.000	26.7102
290	89.0000	3.28080	289.000	26.6681
291	90.0000	3.28080	290.000	26.6262
292	91.0000	3.28080	291.000	26.5845
293	92.0000	3.28080	292.000	26.5429
294	93.0000	3.28080	293.000	26.5016
295	94.0000	3.28080	294.000	26.4604
296	95.0000	3.28080	295.000	26.4194
297	96.0000	3.28080	296.000	26.3786
298	97.0000	3.28080	297.000	26.3379
299	98.0000	3.28080	298.000	26.2975
300	99.0000	3.28080	299.000	26.2573
301	100.000	3.28080	300.000	26.2173
302	101.000	3.28080	301.000	26.1775
303	102.000	3.28080	302.000	26.1378
304	103.000	3.28080	303.000	26.0984
305	104.000	3.28080	304.000	26.0592
306	105.000	3.28080	305.000	26.0202
307	106.000	3.28080	306.000	25.9814
308	107.000	3.28080	307.000	25.9428
309	108.000	3.28080	308.000	25.9044
310	109.000	3.28080	309.000	25.8662
311	110.000	3.28080	310.000	25.8282
312	111.000	3.28080	311.000	25.7905

313	112.000	3.28080	312.000	25.7529
314	113.000	3.28080	313.000	25.7155
315	114.000	3.28080	314.000	25.6784
316	115.000	3.28080	315.000	25.6414
317	116.000	3.28080	316.000	25.6047
318	117.000	3.28080	317.000	25.5682
319	118.000	3.28080	318.000	25.5318
320	119.000	3.28080	319.000	25.4957
321	120.000	3.28080	320.000	25.4598
322	121.000	3.28080	321.000	25.4240
323	122.000	3.28080	322.000	25.3885
324	123.000	3.28080	323.000	25.3532
325	124.000	3.28080	324.000	25.3181
326	125.000	3.28080	325.000	25.2831
327	126.000	3.28080	326.000	25.2484
328	127.000	3.28080	327.000	25.2139
329	128.000	3.28080	328.000	25.1795
330	129.000	3.28080	329.000	25.1454
331	130.000	3.28080	330.000	25.1114
332	131.000	3.28080	331.000	25.0776
333	132.000	3.28080	332.000	25.0440
334	133.000	3.28080	333.000	25.0107
335	134.000	3.28080	334.000	24.9775
336	135.000	3.28080	335.000	24.9444
337	136.000	3.28080	336.000	24.9116
338	137.000	3.28080	337.000	24.8789
339	138.000	3.28080	338.000	24.8465
340	139.000	3.28080	339.000	24.8142
341	140.000	3.28080	340.000	24.7821
342	141.000	3.28080	341.000	24.7501
343	142.000	3.28080	342.000	24.7184
344	143.000	3.28080	343.000	24.6868
345	144.000	3.28080	344.000	24.6554
346	145.000	3.28080	345.000	24.6241
347	146.000	3.28080	346.000	24.5931
348	147.000	3.28080	347.000	24.5622
349	148.000	3.28080	348.000	24.5314
350	149.000	3.28080	349.000	24.5009
351	150.000	3.28080	350.000	24.4705
352	151.000	3.28080	351.000	24.4402
353	152.000	3.28080	352.000	24.4101
354	153.000	3.28080	353.000	24.3802
355	154.000	3.28080	354.000	24.3505
356	155.000	3.28080	355.000	24.3209
357	156.000	3.28080	356.000	24.2914
358	157.000	3.28080	357.000	24.2621
359	158.000	3.28080	358.000	24.2330
360	159.000	3.28080	359.000	24.2040
361	160.000	3.28080	360.000	24.1752
362	161.000	3.28080	361.000	24.1465

363	162.000	3.28080	362.000	24.1180
364	163.000	3.28080	363.000	24.0896
365	164.000	3.28080	364.000	24.0614
366	165.000	3.28080	365.000	24.0333
367	166.000	3.28080	366.000	24.0054
368	167.000	3.28080	367.000	23.9776
369	168.000	3.28080	368.000	23.9499
370	169.000	3.28080	369.000	23.9224
371	170.000	3.28080	370.000	23.8950
372	171.000	3.28080	371.000	23.8678
373	172.000	3.28080	372.000	23.8406
374	173.000	3.28080	373.000	23.8137
375	174.000	3.28080	374.000	23.7868
376	175.000	3.28080	375.000	23.7601
377	176.000	3.28080	376.000	23.7336
378	177.000	3.28080	377.000	23.7071
379	178.000	3.28080	378.000	23.6808
380	179.000	3.28080	379.000	23.6546
381	180.000	3.28080	380.000	23.6286
382	181.000	3.28080	381.000	23.6026
383	182.000	3.28080	382.000	23.5768
384	183.000	3.28080	383.000	23.5512
385	184.000	3.28080	384.000	23.5256
386	185.000	3.28080	385.000	23.5002
387	186.000	3.28080	386.000	23.4749
388	187.000	3.28080	387.000	23.4497
389	188.000	3.28080	388.000	23.4246
390	189.000	3.28080	389.000	23.3996
391	190.000	3.28080	390.000	23.3748
392	191.000	3.28080	391.000	23.3501
393	192.000	3.28080	392.000	23.3255
394	193.000	3.28080	393.000	23.3010
395	194.000	3.28080	394.000	23.2766
396	195.000	3.28080	395.000	23.2523
397	196.000	3.28080	396.000	23.2282
398	197.000	3.28080	397.000	23.2041
399	198.000	3.28080	398.000	23.1802
400	199.000	3.28080	399.000	23.1564
401	200.000	3.28080	400.000	23.1327

===== CORONA LOSS COMPUTATION =====

=====

=====

GENERATING FUNCTIONS

BPA's method

Losses W/m

AC VOLTAGE

Line No.	Bundle No.	RI (dB)	AN (dBA)	Losses (Watts/m)
1	1	NA	NA	54.6
1	2	NA	NA	90.7
1	3	NA	NA	54.6
1	901	NA	NA	0.00
1	902	NA	NA	0.00

Weather conditions: HEAVY RAIN

Total AC corona losses: 199.84 Watts/m or 23.007 dB above
1W/m

SES-ENVIRO package - PAGE 137

RUN:

GENERATING FUNCTIONS

BPA's method

Losses W/m

AC VOLTAGE

Line No.	Bundle No.	RI (dB)	AN (dBA)	Losses (Watts/m)
1	1	NA	NA	14.6
1	2	NA	NA	24.3
1	3	NA	NA	14.6
1	901	NA	NA	0.00

1 902 NA NA 0.00

Weather conditions: L50 RAIN (wet conductors)

1W/m Total AC corona losses: 53.447 Watts/m or 17.279 dB above

SES-ENVIRO package - PAGE 138

RUN:

GENERATING FUNCTIONS

BPA's method

Losses W/m

AC VOLTAGE

Line No.	Bundle No.	RI (dB)	AN (dBA)	Losses (Watts/m)
1	1	NA	NA	0.291
1	2	NA	NA	0.484
1	3	NA	NA	0.291
1	901	NA	NA	0.00
1	902	NA	NA	0.00

Weather conditions: FAIR (dry conductors)

1W/m Total AC corona losses: 1.0664 Watts/m or 0.27923 dB above

SES-ENVIRO package - PAGE 139

RUN:

===== MAGNETIC FIELD COMPUTATION

=====

=====

 The circuits are assumed to be perfectly transposed

*** Legend ***

The expression " $|X|$ " means: absolute value of the variable X, or modulus of the complex variable X

The expression " $/_X$ " means: angle or phase of the complex variable X

CURRENT IN EACH CONDUCTOR

Line	Bund	Con	DC Current (A)	AC Current	
				Real (A)	Imaginary (A)
Modulus (A)	Phase (Degrees)				
154.00000	1	1	154.00000	0.000000	0.000000
154.00000	1	2	154.00000	0.000000	0.000000
154.00000	1	3	154.00000	0.000000	0.000000
154.00000	1	4	-77.000008	133.36791	
154.00000	120.00000		0.000000		

154.00000	1	2	5	-77.000008	133.36791
		120.00000		0.000000	
154.00000	1	2	6	-77.000008	133.36791
		120.00000		0.000000	
154.00000	1	3	7	-76.999984	-133.36792
		-119.99999		0.000000	
154.00000	1	3	8	-76.999984	-133.36792
		-119.99999		0.000000	
154.00000	1	3	9	-76.999984	-133.36792
		-119.99999		0.000000	
1.10730996E-05	1	901	10	-6.81624678E-06	8.72652937E-06
		127.99321		0.000000	
1.10730987E-05	1	902	11	-6.81624600E-06	8.72652887E-06
		127.99321		0.000000	

===== PROFILES =====

=====

=====

SES-ENVIRO package - PAGE 147

RUN:

Profile No. 1

NUMBER OF POINTS : 401
COORDINATES OF ORIGIN OF PROFILE:
Yo = -200.00 feet
Zo = 3.2808 feet
COORDINATES OF END OF PROFILE:
Ye = 200.00 feet
Ze = 3.2808 feet

A.C. MAGNETIC FIELD

MAGNETIC FIELD

LOCATION OF THE POINTS		Hdc			
Hac-(rms)		Hdc			
Y	Z	Hdc	/_Hdc	MAX	MIN
feet	feet	(A/m)	(degrees)	(A/m)	(A/m)
/_MAX					
(degrees)					
-200.00	3.2808	0.0000	0.0000	0.36205	
6.08296E-03	114.05				
-199.00	3.2808	0.0000	0.0000	0.36565	
6.22111E-03	114.18				
-198.00	3.2808	0.0000	0.0000	0.36931	
6.36265E-03	114.30				
-197.00	3.2808	0.0000	0.0000	0.37302	
6.50770E-03	114.43				
-196.00	3.2808	0.0000	0.0000	0.37679	
6.65635E-03	114.56				
-195.00	3.2808	0.0000	0.0000	0.38061	
6.80872E-03	114.69				
-194.00	3.2808	0.0000	0.0000	0.38449	
6.96490E-03	114.83				
-193.00	3.2808	0.0000	0.0000	0.38843	
7.12502E-03	114.96				
-192.00	3.2808	0.0000	0.0000	0.39243	
7.28920E-03	115.10				
-191.00	3.2808	0.0000	0.0000	0.39650	
7.45756E-03	115.23				
-190.00	3.2808	0.0000	0.0000	0.40062	
7.63022E-03	115.37				
-189.00	3.2808	0.0000	0.0000	0.40481	
7.80731E-03	115.51				
-188.00	3.2808	0.0000	0.0000	0.40907	
7.98898E-03	115.65				
-187.00	3.2808	0.0000	0.0000	0.41339	
8.17536E-03	115.80				
-186.00	3.2808	0.0000	0.0000	0.41778	
8.36660E-03	115.94				
-185.00	3.2808	0.0000	0.0000	0.42224	
8.56285E-03	116.09				
-184.00	3.2808	0.0000	0.0000	0.42677	
8.76426E-03	116.24				
-183.00	3.2808	0.0000	0.0000	0.43137	
8.97100E-03	116.39				
-182.00	3.2808	0.0000	0.0000	0.43605	
9.18324E-03	116.54				

-181.00	3.2808	0.0000	0.0000	0.44080
9.40115E-03	116.69			
-180.00	3.2808	0.0000	0.0000	0.44563
9.62492E-03	116.85			
-179.00	3.2808	0.0000	0.0000	0.45054
9.85472E-03	117.00			
-178.00	3.2808	0.0000	0.0000	0.45553
1.00907E-02	117.16			
-177.00	3.2808	0.0000	0.0000	0.46060
1.03332E-02	117.32			
-176.00	3.2808	0.0000	0.0000	0.46575
1.05823E-02	117.49			
-175.00	3.2808	0.0000	0.0000	0.47100
1.08383E-02	117.65			
-174.00	3.2808	0.0000	0.0000	0.47633
1.11013E-02	117.82			
-173.00	3.2808	0.0000	0.0000	0.48174
1.13717E-02	117.99			
-172.00	3.2808	0.0000	0.0000	0.48725
1.16496E-02	118.16			
-171.00	3.2808	0.0000	0.0000	0.49286
1.19354E-02	118.33			
-170.00	3.2808	0.0000	0.0000	0.49856
1.22292E-02	118.50			
-169.00	3.2808	0.0000	0.0000	0.50436
1.25313E-02	118.68			
-168.00	3.2808	0.0000	0.0000	0.51026
1.28421E-02	118.86			
-167.00	3.2808	0.0000	0.0000	0.51626
1.31618E-02	119.04			
-166.00	3.2808	0.0000	0.0000	0.52236
1.34907E-02	119.23			
-165.00	3.2808	0.0000	0.0000	0.52858
1.38292E-02	119.41			
-164.00	3.2808	0.0000	0.0000	0.53490
1.41775E-02	119.60			
-163.00	3.2808	0.0000	0.0000	0.54133
1.45361E-02	119.79			
-162.00	3.2808	0.0000	0.0000	0.54788
1.49052E-02	119.98			
-161.00	3.2808	0.0000	0.0000	0.55455
1.52852E-02	120.18			
-160.00	3.2808	0.0000	0.0000	0.56134
1.56765E-02	120.38			
-159.00	3.2808	0.0000	0.0000	0.56825
1.60796E-02	120.58			
-158.00	3.2808	0.0000	0.0000	0.57529
1.64948E-02	120.78			
-157.00	3.2808	0.0000	0.0000	0.58245
1.69226E-02	120.99			

-156.00	3.2808	0.0000	0.0000	0.58975
1.73633E-02	121.20			
-155.00	3.2808	0.0000	0.0000	0.59718
1.78176E-02	121.41			
-154.00	3.2808	0.0000	0.0000	0.60476
1.82859E-02	121.63			
-153.00	3.2808	0.0000	0.0000	0.61247
1.87686E-02	121.84			
-152.00	3.2808	0.0000	0.0000	0.62033
1.92664E-02	122.07			
-151.00	3.2808	0.0000	0.0000	0.62834
1.97797E-02	122.29			
-150.00	3.2808	0.0000	0.0000	0.63650
2.03091E-02	122.52			
-149.00	3.2808	0.0000	0.0000	0.64482
2.08554E-02	122.75			
-148.00	3.2808	0.0000	0.0000	0.65330
2.14190E-02	122.98			
-147.00	3.2808	0.0000	0.0000	0.66194
2.20006E-02	123.22			
-146.00	3.2808	0.0000	0.0000	0.67075
2.26009E-02	123.46			
-145.00	3.2808	0.0000	0.0000	0.67974
2.32207E-02	123.70			
-144.00	3.2808	0.0000	0.0000	0.68890
2.38606E-02	123.95			
-143.00	3.2808	0.0000	0.0000	0.69824
2.45215E-02	124.20			
-142.00	3.2808	0.0000	0.0000	0.70777
2.52041E-02	124.46			
-141.00	3.2808	0.0000	0.0000	0.71749
2.59093E-02	124.71			
-140.00	3.2808	0.0000	0.0000	0.72741
2.66380E-02	124.98			
-139.00	3.2808	0.0000	0.0000	0.73753
2.73911E-02	125.24			
-138.00	3.2808	0.0000	0.0000	0.74785
2.81695E-02	125.51			
-137.00	3.2808	0.0000	0.0000	0.75839
2.89743E-02	125.79			
-136.00	3.2808	0.0000	0.0000	0.76914
2.98066E-02	126.07			
-135.00	3.2808	0.0000	0.0000	0.78012
3.06673E-02	126.35			
-134.00	3.2808	0.0000	0.0000	0.79132
3.15577E-02	126.64			
-133.00	3.2808	0.0000	0.0000	0.80276
3.24791E-02	126.93			
-132.00	3.2808	0.0000	0.0000	0.81445
3.34325E-02	127.23			

-131.00	3.2808	0.0000	0.0000	0.82638
3.44194E-02	127.53			
-130.00	3.2808	0.0000	0.0000	0.83856
3.54411E-02	127.84			
-129.00	3.2808	0.0000	0.0000	0.85101
3.64991E-02	128.15			
-128.00	3.2808	0.0000	0.0000	0.86373
3.75948E-02	128.47			
-127.00	3.2808	0.0000	0.0000	0.87672
3.87300E-02	128.79			
-126.00	3.2808	0.0000	0.0000	0.88999
3.99061E-02	129.12			
-125.00	3.2808	0.0000	0.0000	0.90356
4.11250E-02	129.45			
-124.00	3.2808	0.0000	0.0000	0.91742
4.23885E-02	129.79			
-123.00	3.2808	0.0000	0.0000	0.93160
4.36985E-02	130.13			
-122.00	3.2808	0.0000	0.0000	0.94609
4.50569E-02	130.48			
-121.00	3.2808	0.0000	0.0000	0.96090
4.64659E-02	130.84			
-120.00	3.2808	0.0000	0.0000	0.97605
4.79277E-02	131.20			
-119.00	3.2808	0.0000	0.0000	0.99155
4.94445E-02	131.57			
-118.00	3.2808	0.0000	0.0000	1.0074
5.10189E-02	131.95			
-117.00	3.2808	0.0000	0.0000	1.0236
5.26532E-02	132.33			
-116.00	3.2808	0.0000	0.0000	1.0402
5.43503E-02	132.72			
-115.00	3.2808	0.0000	0.0000	1.0571
5.61128E-02	133.12			
-114.00	3.2808	0.0000	0.0000	1.0745
5.79437E-02	133.52			
-113.00	3.2808	0.0000	0.0000	1.0923
5.98461E-02	133.93			
-112.00	3.2808	0.0000	0.0000	1.1105
6.18231E-02	134.35			
-111.00	3.2808	0.0000	0.0000	1.1291
6.38783E-02	134.78			
-110.00	3.2808	0.0000	0.0000	1.1481
6.60152E-02	135.21			
-109.00	3.2808	0.0000	0.0000	1.1676
6.82374E-02	135.66			
-108.00	3.2808	0.0000	0.0000	1.1876
7.05490E-02	136.11			
-107.00	3.2808	0.0000	0.0000	1.2081
7.29540E-02	136.57			

-106.00	3.2808	0.0000	0.0000	1.2290
7.54568E-02	137.04			
-105.00	3.2808	0.0000	0.0000	1.2505
7.80620E-02	137.52			
-104.00	3.2808	0.0000	0.0000	1.2725
8.07743E-02	138.01			
-103.00	3.2808	0.0000	0.0000	1.2950
8.35987E-02	138.50			
-102.00	3.2808	0.0000	0.0000	1.3181
8.65407E-02	139.01			
-101.00	3.2808	0.0000	0.0000	1.3417
8.96056E-02	139.53			
-100.00	3.2808	0.0000	0.0000	1.3659
9.27995E-02	140.06			
-99.000	3.2808	0.0000	0.0000	1.3908
9.61283E-02	140.60			
-98.000	3.2808	0.0000	0.0000	1.4162
9.95986E-02	141.15			
-97.000	3.2808	0.0000	0.0000	1.4423
0.10322	141.71			
-96.000	3.2808	0.0000	0.0000	1.4690
0.10699	142.28			
-95.000	3.2808	0.0000	0.0000	1.4964
0.11093	142.87			
-94.000	3.2808	0.0000	0.0000	1.5245
0.11504	143.47			
-93.000	3.2808	0.0000	0.0000	1.5533
0.11932	144.08			
-92.000	3.2808	0.0000	0.0000	1.5828
0.12380	144.70			
-91.000	3.2808	0.0000	0.0000	1.6130
0.12847	145.34			
-90.000	3.2808	0.0000	0.0000	1.6440
0.13334	145.99			
-89.000	3.2808	0.0000	0.0000	1.6758
0.13844	146.66			
-88.000	3.2808	0.0000	0.0000	1.7084
0.14376	147.34			
-87.000	3.2808	0.0000	0.0000	1.7418
0.14932	148.03			
-86.000	3.2808	0.0000	0.0000	1.7761
0.15513	148.75			
-85.000	3.2808	0.0000	0.0000	1.8112
0.16120	149.47			
-84.000	3.2808	0.0000	0.0000	1.8472
0.16754	150.22			
-83.000	3.2808	0.0000	0.0000	1.8841
0.17417	150.98			
-82.000	3.2808	0.0000	0.0000	1.9218
0.18111	151.76			

-81.000	3.2808	0.0000	0.0000	1.9606
0.18835	152.55			
-80.000	3.2808	0.0000	0.0000	2.0002
0.19594	153.36			
-79.000	3.2808	0.0000	0.0000	2.0409
0.20386	154.20			
-78.000	3.2808	0.0000	0.0000	2.0825
0.21216	155.05			
-77.000	3.2808	0.0000	0.0000	2.1251
0.22083	155.92			
-76.000	3.2808	0.0000	0.0000	2.1687
0.22990	156.81			
-75.000	3.2808	0.0000	0.0000	2.2133
0.23939	157.73			
-74.000	3.2808	0.0000	0.0000	2.2590
0.24932	158.66			
-73.000	3.2808	0.0000	0.0000	2.3056
0.25970	159.61			
-72.000	3.2808	0.0000	0.0000	2.3534
0.27056	160.59			
-71.000	3.2808	0.0000	0.0000	2.4022
0.28192	161.59			
-70.000	3.2808	0.0000	0.0000	2.4520
0.29380	162.62			
-69.000	3.2808	0.0000	0.0000	2.5029
0.30622	163.66			
-68.000	3.2808	0.0000	0.0000	2.5548
0.31921	164.74			
-67.000	3.2808	0.0000	0.0000	2.6077
0.33279	165.83			
-66.000	3.2808	0.0000	0.0000	2.6617
0.34699	166.95			
-65.000	3.2808	0.0000	0.0000	2.7167
0.36182	168.10			
-64.000	3.2808	0.0000	0.0000	2.7726
0.37732	169.27			
-63.000	3.2808	0.0000	0.0000	2.8295
0.39350	170.47			
-62.000	3.2808	0.0000	0.0000	2.8873
0.41040	171.70			
-61.000	3.2808	0.0000	0.0000	2.9460
0.42804	172.95			
-60.000	3.2808	0.0000	0.0000	3.0055
0.44645	174.23			
-59.000	3.2808	0.0000	0.0000	3.0658
0.46564	175.54			
-58.000	3.2808	0.0000	0.0000	3.1268
0.48565	176.88			
-57.000	3.2808	0.0000	0.0000	3.1885
0.50650	178.24			

-56.000	3.2808	0.0000	0.0000	3.2508
0.52821	179.63			
-55.000	3.2808	0.0000	0.0000	3.3136
0.55080	1.0529			
-54.000	3.2808	0.0000	0.0000	3.3768
0.57429	2.5000			
-53.000	3.2808	0.0000	0.0000	3.4403
0.59871	3.9748			
-52.000	3.2808	0.0000	0.0000	3.5040
0.62407	5.4769			
-51.000	3.2808	0.0000	0.0000	3.5679
0.65038	7.0061			
-50.000	3.2808	0.0000	0.0000	3.6318
0.67767	8.5619			
-49.000	3.2808	0.0000	0.0000	3.6955
0.70594	10.144			
-48.000	3.2808	0.0000	0.0000	3.7591
0.73520	11.751			
-47.000	3.2808	0.0000	0.0000	3.8222
0.76546	13.383			
-46.000	3.2808	0.0000	0.0000	3.8848
0.79671	15.040			
-45.000	3.2808	0.0000	0.0000	3.9468
0.82897	16.719			
-44.000	3.2808	0.0000	0.0000	4.0080
0.86223	18.420			
-43.000	3.2808	0.0000	0.0000	4.0683
0.89648	20.142			
-42.000	3.2808	0.0000	0.0000	4.1275
0.93171	21.884			
-41.000	3.2808	0.0000	0.0000	4.1854
0.96790	23.644			
-40.000	3.2808	0.0000	0.0000	4.2421
1.0050	25.421			
-39.000	3.2808	0.0000	0.0000	4.2972
1.0431	27.214			
-38.000	3.2808	0.0000	0.0000	4.3508
1.0821	29.020			
-37.000	3.2808	0.0000	0.0000	4.4026
1.1219	30.839			
-36.000	3.2808	0.0000	0.0000	4.4525
1.1626	32.668			
-35.000	3.2808	0.0000	0.0000	4.5005
1.2041	34.506			
-34.000	3.2808	0.0000	0.0000	4.5465
1.2463	36.350			
-33.000	3.2808	0.0000	0.0000	4.5904
1.2893	38.200			
-32.000	3.2808	0.0000	0.0000	4.6320
1.3329	40.052			

-31.000	3.2808	0.0000	0.0000	4.6714
1.3771	41.906			
-30.000	3.2808	0.0000	0.0000	4.7085
1.4218	43.758			
-29.000	3.2808	0.0000	0.0000	4.7433
1.4670	45.607			
-28.000	3.2808	0.0000	0.0000	4.7757
1.5127	47.451			
-27.000	3.2808	0.0000	0.0000	4.8057
1.5586	49.288			
-26.000	3.2808	0.0000	0.0000	4.8334
1.6048	51.115			
-25.000	3.2808	0.0000	0.0000	4.8588
1.6512	52.930			
-24.000	3.2808	0.0000	0.0000	4.8818
1.6976	54.732			
-23.000	3.2808	0.0000	0.0000	4.9026
1.7439	56.519			
-22.000	3.2808	0.0000	0.0000	4.9212
1.7902	58.287			
-21.000	3.2808	0.0000	0.0000	4.9376
1.8361	60.036			
-20.000	3.2808	0.0000	0.0000	4.9520
1.8816	61.762			
-19.000	3.2808	0.0000	0.0000	4.9645
1.9267	63.464			
-18.000	3.2808	0.0000	0.0000	4.9751
1.9710	65.141			
-17.000	3.2808	0.0000	0.0000	4.9839
2.0145	66.789			
-16.000	3.2808	0.0000	0.0000	4.9911
2.0569	68.408			
-15.000	3.2808	0.0000	0.0000	4.9967
2.0983	69.995			
-14.000	3.2808	0.0000	0.0000	5.0010
2.1382	71.550			
-13.000	3.2808	0.0000	0.0000	5.0041
2.1766	73.070			
-12.000	3.2808	0.0000	0.0000	5.0061
2.2133	74.556			
-11.000	3.2808	0.0000	0.0000	5.0072
2.2481	76.006			
-10.000	3.2808	0.0000	0.0000	5.0074
2.2807	77.421			
-9.0000	3.2808	0.0000	0.0000	5.0071
2.3110	78.800			
-8.0000	3.2808	0.0000	0.0000	5.0063
2.3387	80.145			
-7.0000	3.2808	0.0000	0.0000	5.0052
2.3637	81.457			

-6.0000	3.2808	0.0000	0.0000	5.0039
2.3858	82.739			
-5.0000	3.2808	0.0000	0.0000	5.0025
2.4048	83.993			
-4.0000	3.2808	0.0000	0.0000	5.0013
2.4206	85.222			
-3.0000	3.2808	0.0000	0.0000	5.0002
2.4331	86.432			
-2.0000	3.2808	0.0000	0.0000	4.9994
2.4420	87.625			
-1.0000	3.2808	0.0000	0.0000	4.9988
2.4475	88.807			
0.0000	3.2808	0.0000	0.0000	4.9987
2.4493	89.985			
1.0000	3.2808	0.0000	0.0000	4.9989
2.4476	91.162			
2.0000	3.2808	0.0000	0.0000	4.9995
2.4422	92.344			
3.0000	3.2808	0.0000	0.0000	5.0004
2.4333	93.538			
4.0000	3.2808	0.0000	0.0000	5.0015
2.4209	94.747			
5.0000	3.2808	0.0000	0.0000	5.0029
2.4052	95.977			
6.0000	3.2808	0.0000	0.0000	5.0043
2.3863	97.231			
7.0000	3.2808	0.0000	0.0000	5.0056
2.3643	98.513			
8.0000	3.2808	0.0000	0.0000	5.0068
2.3393	99.826			
9.0000	3.2808	0.0000	0.0000	5.0077
2.3117	101.17			
10.000	3.2808	0.0000	0.0000	5.0081
2.2815	102.55			
11.000	3.2808	0.0000	0.0000	5.0078
2.2490	103.97			
12.000	3.2808	0.0000	0.0000	5.0068
2.2143	105.42			
13.000	3.2808	0.0000	0.0000	5.0048
2.1777	106.90			
14.000	3.2808	0.0000	0.0000	5.0018
2.1394	108.42			
15.000	3.2808	0.0000	0.0000	4.9975
2.0995	109.98			
16.000	3.2808	0.0000	0.0000	4.9919
2.0583	111.57			
17.000	3.2808	0.0000	0.0000	4.9847
2.0159	113.19			
18.000	3.2808	0.0000	0.0000	4.9759
1.9725	114.84			

19.000	3.2808	0.0000	0.0000	4.9653
1.9283	116.51			
20.000	3.2808	0.0000	0.0000	4.9529
1.8834	118.22			
21.000	3.2808	0.0000	0.0000	4.9385
1.8380	119.94			
22.000	3.2808	0.0000	0.0000	4.9220
1.7921	121.69			
23.000	3.2808	0.0000	0.0000	4.9034
1.7460	123.46			
24.000	3.2808	0.0000	0.0000	4.8826
1.6998	125.25			
25.000	3.2808	0.0000	0.0000	4.8596
1.6534	127.05			
26.000	3.2808	0.0000	0.0000	4.8342
1.6072	128.86			
27.000	3.2808	0.0000	0.0000	4.8065
1.5611	130.69			
28.000	3.2808	0.0000	0.0000	4.7764
1.5152	132.53			
29.000	3.2808	0.0000	0.0000	4.7440
1.4697	134.37			
30.000	3.2808	0.0000	0.0000	4.7092
1.4246	136.22			
31.000	3.2808	0.0000	0.0000	4.6721
1.3799	138.08			
32.000	3.2808	0.0000	0.0000	4.6327
1.3358	139.93			
33.000	3.2808	0.0000	0.0000	4.5910
1.2923	141.78			
34.000	3.2808	0.0000	0.0000	4.5471
1.2494	143.63			
35.000	3.2808	0.0000	0.0000	4.5011
1.2073	145.48			
36.000	3.2808	0.0000	0.0000	4.4531
1.1659	147.31			
37.000	3.2808	0.0000	0.0000	4.4031
1.1253	149.14			
38.000	3.2808	0.0000	0.0000	4.3512
1.0855	150.96			
39.000	3.2808	0.0000	0.0000	4.2977
1.0466	152.77			
40.000	3.2808	0.0000	0.0000	4.2425
1.0086	154.56			
41.000	3.2808	0.0000	0.0000	4.1858
0.97149	156.34			
42.000	3.2808	0.0000	0.0000	4.1278
0.93535	158.10			
43.000	3.2808	0.0000	0.0000	4.0686
0.90017	159.84			

44.000	3.2808	0.0000	0.0000	4.0083
0.86597	161.56			
45.000	3.2808	0.0000	0.0000	3.9471
0.83276	163.26			
46.000	3.2808	0.0000	0.0000	3.8851
0.80054	164.94			
47.000	3.2808	0.0000	0.0000	3.8224
0.76931	166.60			
48.000	3.2808	0.0000	0.0000	3.7592
0.73909	168.23			
49.000	3.2808	0.0000	0.0000	3.6957
0.70985	169.84			
50.000	3.2808	0.0000	0.0000	3.6319
0.68161	171.42			
51.000	3.2808	0.0000	0.0000	3.5680
0.65435	172.98			
52.000	3.2808	0.0000	0.0000	3.5041
0.62805	174.50			
53.000	3.2808	0.0000	0.0000	3.4403
0.60271	176.01			
54.000	3.2808	0.0000	0.0000	3.3768
0.57830	177.48			
55.000	3.2808	0.0000	0.0000	3.3136
0.55482	178.93			
56.000	3.2808	0.0000	0.0000	3.2508
0.53223	0.34831			
57.000	3.2808	0.0000	0.0000	3.1885
0.51053	1.7398			
58.000	3.2808	0.0000	0.0000	3.1268
0.48969	3.1035			
59.000	3.2808	0.0000	0.0000	3.0657
0.46968	4.4393			
60.000	3.2808	0.0000	0.0000	3.0054
0.45048	5.7474			
61.000	3.2808	0.0000	0.0000	2.9459
0.43207	7.0280			
62.000	3.2808	0.0000	0.0000	2.8872
0.41443	8.2813			
63.000	3.2808	0.0000	0.0000	2.8294
0.39752	9.5076			
64.000	3.2808	0.0000	0.0000	2.7725
0.38133	10.707			
65.000	3.2808	0.0000	0.0000	2.7165
0.36582	11.880			
66.000	3.2808	0.0000	0.0000	2.6615
0.35097	13.028			
67.000	3.2808	0.0000	0.0000	2.6076
0.33677	14.149			
68.000	3.2808	0.0000	0.0000	2.5546
0.32317	15.246			

69.000	3.2808	0.0000	0.0000	2.5027
0.31017	16.318			
70.000	3.2808	0.0000	0.0000	2.4518
0.29773	17.365			
71.000	3.2808	0.0000	0.0000	2.4019
0.28583	18.389			
72.000	3.2808	0.0000	0.0000	2.3531
0.27446	19.389			
73.000	3.2808	0.0000	0.0000	2.3054
0.26358	20.367			
74.000	3.2808	0.0000	0.0000	2.2587
0.25318	21.323			
75.000	3.2808	0.0000	0.0000	2.2130
0.24323	22.257			
76.000	3.2808	0.0000	0.0000	2.1684
0.23372	23.169			
77.000	3.2808	0.0000	0.0000	2.1248
0.22463	24.061			
78.000	3.2808	0.0000	0.0000	2.0822
0.21594	24.933			
79.000	3.2808	0.0000	0.0000	2.0406
0.20763	25.785			
80.000	3.2808	0.0000	0.0000	1.9999
0.19968	26.617			
81.000	3.2808	0.0000	0.0000	1.9602
0.19207	27.431			
82.000	3.2808	0.0000	0.0000	1.9215
0.18480	28.227			
83.000	3.2808	0.0000	0.0000	1.8837
0.17785	29.005			
84.000	3.2808	0.0000	0.0000	1.8468
0.17119	29.765			
85.000	3.2808	0.0000	0.0000	1.8109
0.16483	30.509			
86.000	3.2808	0.0000	0.0000	1.7757
0.15874	31.236			
87.000	3.2808	0.0000	0.0000	1.7415
0.15291	31.948			
88.000	3.2808	0.0000	0.0000	1.7081
0.14733	32.643			
89.000	3.2808	0.0000	0.0000	1.6755
0.14199	33.324			
90.000	3.2808	0.0000	0.0000	1.6437
0.13687	33.990			
91.000	3.2808	0.0000	0.0000	1.6127
0.13197	34.642			
92.000	3.2808	0.0000	0.0000	1.5824
0.12728	35.279			
93.000	3.2808	0.0000	0.0000	1.5529
0.12279	35.904			

94.000	3.2808	0.0000	0.0000	1.5241
0.11848	36.515			
95.000	3.2808	0.0000	0.0000	1.4960
0.11435	37.113			
96.000	3.2808	0.0000	0.0000	1.4686
0.11039	37.699			
97.000	3.2808	0.0000	0.0000	1.4419
0.10660	38.273			
98.000	3.2808	0.0000	0.0000	1.4158
0.10296	38.835			
99.000	3.2808	0.0000	0.0000	1.3904
9.94691E-02	39.385			
100.00	3.2808	0.0000	0.0000	1.3655
9.61204E-02	39.924			
101.00	3.2808	0.0000	0.0000	1.3413
9.29069E-02	40.453			
102.00	3.2808	0.0000	0.0000	1.3177
8.98224E-02	40.971			
103.00	3.2808	0.0000	0.0000	1.2946
8.68611E-02	41.479			
104.00	3.2808	0.0000	0.0000	1.2721
8.40176E-02	41.976			
105.00	3.2808	0.0000	0.0000	1.2501
8.12864E-02	42.464			
106.00	3.2808	0.0000	0.0000	1.2286
7.86625E-02	42.943			
107.00	3.2808	0.0000	0.0000	1.2077
7.61412E-02	43.412			
108.00	3.2808	0.0000	0.0000	1.1872
7.37180E-02	43.872			
109.00	3.2808	0.0000	0.0000	1.1672
7.13884E-02	44.324			
110.00	3.2808	0.0000	0.0000	1.1477
6.91483E-02	44.767			
111.00	3.2808	0.0000	0.0000	1.1287
6.69939E-02	45.202			
112.00	3.2808	0.0000	0.0000	1.1101
6.49213E-02	45.629			
113.00	3.2808	0.0000	0.0000	1.0919
6.29271E-02	46.048			
114.00	3.2808	0.0000	0.0000	1.0741
6.10078E-02	46.459			
115.00	3.2808	0.0000	0.0000	1.0567
5.91601E-02	46.863			
116.00	3.2808	0.0000	0.0000	1.0398
5.73811E-02	47.259			
117.00	3.2808	0.0000	0.0000	1.0232
5.56678E-02	47.649			
118.00	3.2808	0.0000	0.0000	1.0070
5.40174E-02	48.031			

119.00	3.2808	0.0000	0.0000	0.99114
5.24272E-02	48.407			
120.00	3.2808	0.0000	0.0000	0.97564
5.08947E-02	48.776			
121.00	3.2808	0.0000	0.0000	0.96049
4.94175E-02	49.139			
122.00	3.2808	0.0000	0.0000	0.94568
4.79933E-02	49.496			
123.00	3.2808	0.0000	0.0000	0.93119
4.66198E-02	49.846			
124.00	3.2808	0.0000	0.0000	0.91702
4.52951E-02	50.191			
125.00	3.2808	0.0000	0.0000	0.90315
4.40170E-02	50.530			
126.00	3.2808	0.0000	0.0000	0.88959
4.27837E-02	50.863			
127.00	3.2808	0.0000	0.0000	0.87631
4.15933E-02	51.190			
128.00	3.2808	0.0000	0.0000	0.86332
4.04442E-02	51.513			
129.00	3.2808	0.0000	0.0000	0.85060
3.93347E-02	51.830			
130.00	3.2808	0.0000	0.0000	0.83816
3.82631E-02	52.141			
131.00	3.2808	0.0000	0.0000	0.82597
3.72279E-02	52.448			
132.00	3.2808	0.0000	0.0000	0.81404
3.62278E-02	52.750			
133.00	3.2808	0.0000	0.0000	0.80236
3.52614E-02	53.047			
134.00	3.2808	0.0000	0.0000	0.79092
3.43272E-02	53.340			
135.00	3.2808	0.0000	0.0000	0.77972
3.34241E-02	53.628			
136.00	3.2808	0.0000	0.0000	0.76874
3.25509E-02	53.911			
137.00	3.2808	0.0000	0.0000	0.75799
3.17063E-02	54.190			
138.00	3.2808	0.0000	0.0000	0.74745
3.08894E-02	54.465			
139.00	3.2808	0.0000	0.0000	0.73713
3.00990E-02	54.735			
140.00	3.2808	0.0000	0.0000	0.72701
2.93341E-02	55.002			
141.00	3.2808	0.0000	0.0000	0.71710
2.85939E-02	55.265			
142.00	3.2808	0.0000	0.0000	0.70738
2.78772E-02	55.523			
143.00	3.2808	0.0000	0.0000	0.69785
2.71833E-02	55.778			

144.00	3.2808	0.0000	0.0000	0.68851
2.65113E-02	56.029			
145.00	3.2808	0.0000	0.0000	0.67934
2.58605E-02	56.277			
146.00	3.2808	0.0000	0.0000	0.67036
2.52299E-02	56.521			
147.00	3.2808	0.0000	0.0000	0.66155
2.46190E-02	56.761			
148.00	3.2808	0.0000	0.0000	0.65291
2.40269E-02	56.998			
149.00	3.2808	0.0000	0.0000	0.64443
2.34529E-02	57.231			
150.00	3.2808	0.0000	0.0000	0.63612
2.28965E-02	57.462			
151.00	3.2808	0.0000	0.0000	0.62795
2.23570E-02	57.689			
152.00	3.2808	0.0000	0.0000	0.61995
2.18338E-02	57.913			
153.00	3.2808	0.0000	0.0000	0.61209
2.13263E-02	58.134			
154.00	3.2808	0.0000	0.0000	0.60437
2.08340E-02	58.352			
155.00	3.2808	0.0000	0.0000	0.59680
2.03563E-02	58.567			
156.00	3.2808	0.0000	0.0000	0.58937
1.98927E-02	58.778			
157.00	3.2808	0.0000	0.0000	0.58207
1.94428E-02	58.988			
158.00	3.2808	0.0000	0.0000	0.57491
1.90059E-02	59.194			
159.00	3.2808	0.0000	0.0000	0.56787
1.85818E-02	59.398			
160.00	3.2808	0.0000	0.0000	0.56096
1.81700E-02	59.599			
161.00	3.2808	0.0000	0.0000	0.55418
1.77700E-02	59.797			
162.00	3.2808	0.0000	0.0000	0.54751
1.73814E-02	59.993			
163.00	3.2808	0.0000	0.0000	0.54096
1.70039E-02	60.186			
164.00	3.2808	0.0000	0.0000	0.53453
1.66371E-02	60.377			
165.00	3.2808	0.0000	0.0000	0.52821
1.62806E-02	60.565			
166.00	3.2808	0.0000	0.0000	0.52199
1.59341E-02	60.751			
167.00	3.2808	0.0000	0.0000	0.51589
1.55973E-02	60.935			
168.00	3.2808	0.0000	0.0000	0.50989
1.52698E-02	61.116			

169.00	3.2808	0.0000	0.0000	0.50399
1.49513E-02	61.295			
170.00	3.2808	0.0000	0.0000	0.49820
1.46416E-02	61.472			
171.00	3.2808	0.0000	0.0000	0.49250
1.43403E-02	61.646			
172.00	3.2808	0.0000	0.0000	0.48689
1.40472E-02	61.819			
173.00	3.2808	0.0000	0.0000	0.48138
1.37620E-02	61.989			
174.00	3.2808	0.0000	0.0000	0.47597
1.34845E-02	62.158			
175.00	3.2808	0.0000	0.0000	0.47064
1.32144E-02	62.324			
176.00	3.2808	0.0000	0.0000	0.46540
1.29515E-02	62.489			
177.00	3.2808	0.0000	0.0000	0.46024
1.26956E-02	62.651			
178.00	3.2808	0.0000	0.0000	0.45517
1.24464E-02	62.812			
179.00	3.2808	0.0000	0.0000	0.45019
1.22037E-02	62.970			
180.00	3.2808	0.0000	0.0000	0.44528
1.19674E-02	63.127			
181.00	3.2808	0.0000	0.0000	0.44045
1.17372E-02	63.282			
182.00	3.2808	0.0000	0.0000	0.43570
1.15130E-02	63.436			
183.00	3.2808	0.0000	0.0000	0.43102
1.12945E-02	63.587			
184.00	3.2808	0.0000	0.0000	0.42642
1.10816E-02	63.737			
185.00	3.2808	0.0000	0.0000	0.42189
1.08741E-02	63.885			
186.00	3.2808	0.0000	0.0000	0.41743
1.06719E-02	64.031			
187.00	3.2808	0.0000	0.0000	0.41305
1.04748E-02	64.176			
188.00	3.2808	0.0000	0.0000	0.40873
1.02826E-02	64.319			
189.00	3.2808	0.0000	0.0000	0.40447
1.00952E-02	64.461			
190.00	3.2808	0.0000	0.0000	0.40028
9.91250E-03	64.601			
191.00	3.2808	0.0000	0.0000	0.39616
9.73430E-03	64.740			
192.00	3.2808	0.0000	0.0000	0.39210
9.56049E-03	64.877			
193.00	3.2808	0.0000	0.0000	0.38810
9.39094E-03	65.012			

194.00	3.2808	0.0000	0.0000	0.38416
9.22553E-03	65.146			
195.00	3.2808	0.0000	0.0000	0.38028
9.06413E-03	65.279			
196.00	3.2808	0.0000	0.0000	0.37645
8.90664E-03	65.410			
197.00	3.2808	0.0000	0.0000	0.37269
8.75293E-03	65.540			
198.00	3.2808	0.0000	0.0000	0.36898
8.60291E-03	65.669			
199.00	3.2808	0.0000	0.0000	0.36532
8.45646E-03	65.796			
200.00	3.2808	0.0000	0.0000	0.36172
8.31348E-03	65.922			

SES-ENVIRO package - PAGE 148

RUN:

Point FIELD No.	LOCATION OF POINT				A.C. MAGNETIC		
(rms)	Y	Z	Distance	Polarization ellipse			
	Components						
	/_Hy	Hz	to /_Hz origin	MAX A/m	MIN A/m	/_MAX degrees	
A/m	degrees feet	A/m feet	degrees feet				
1 0.148	-200. 22.0	3.28 0.331	0.00 -155.	0.362	6.083E-03	114.	
2 0.150	-199. 22.0	3.28 0.334	1.00 -155.	0.366	6.221E-03	114.	
3 0.152	-198. 22.0	3.28 0.337	2.00 -155.	0.369	6.363E-03	114.	
4 0.154	-197. 21.9	3.28 0.340	3.00 -155.	0.373	6.508E-03	114.	
5 0.157	-196. 21.9	3.28 0.343	4.00 -155.	0.377	6.656E-03	115.	
6 0.159	-195. 21.8	3.28 0.346	5.00 -155.	0.381	6.809E-03	115.	
7 0.162	-194. 21.8	3.28 0.349	6.00 -155.	0.384	6.965E-03	115.	
8 0.164	-193. 21.8	3.28 0.352	7.00 -155.	0.388	7.125E-03	115.	

9	-192.	3.28	8.00	0.392	7.289E-03	115.
0.167	21.7	0.355	-156.			
10	-191.	3.28	9.00	0.396	7.458E-03	115.
0.169	21.7	0.359	-156.			
11	-190.	3.28	10.0	0.401	7.630E-03	115.
0.172	21.6	0.362	-156.			
12	-189.	3.28	11.0	0.405	7.807E-03	116.
0.174	21.6	0.365	-156.			
13	-188.	3.28	12.0	0.409	7.989E-03	116.
0.177	21.6	0.369	-156.			
14	-187.	3.28	13.0	0.413	8.175E-03	116.
0.180	21.5	0.372	-156.			
15	-186.	3.28	14.0	0.418	8.367E-03	116.
0.183	21.5	0.376	-156.			
16	-185.	3.28	15.0	0.422	8.563E-03	116.
0.186	21.4	0.379	-156.			
17	-184.	3.28	16.0	0.427	8.764E-03	116.
0.189	21.4	0.383	-156.			
18	-183.	3.28	17.0	0.431	8.971E-03	116.
0.192	21.4	0.386	-156.			
19	-182.	3.28	18.0	0.436	9.183E-03	117.
0.195	21.3	0.390	-156.			
20	-181.	3.28	19.0	0.441	9.401E-03	117.
0.198	21.3	0.394	-156.			
21	-180.	3.28	20.0	0.446	9.625E-03	117.
0.201	21.2	0.398	-156.			
22	-179.	3.28	21.0	0.451	9.855E-03	117.
0.205	21.2	0.401	-156.			
23	-178.	3.28	22.0	0.456	1.009E-02	117.
0.208	21.2	0.405	-156.			
24	-177.	3.28	23.0	0.461	1.033E-02	117.
0.212	21.1	0.409	-156.			
25	-176.	3.28	24.0	0.466	1.058E-02	117.
0.215	21.1	0.413	-156.			
26	-175.	3.28	25.0	0.471	1.084E-02	118.
0.219	21.0	0.417	-156.			
27	-174.	3.28	26.0	0.476	1.110E-02	118.
0.222	21.0	0.421	-156.			
28	-173.	3.28	27.0	0.482	1.137E-02	118.
0.226	20.9	0.425	-156.			
29	-172.	3.28	28.0	0.487	1.165E-02	118.
0.230	20.9	0.430	-156.			
30	-171.	3.28	29.0	0.493	1.194E-02	118.
0.234	20.9	0.434	-156.			
31	-170.	3.28	30.0	0.499	1.223E-02	119.
0.238	20.8	0.438	-156.			
32	-169.	3.28	31.0	0.504	1.253E-02	119.
0.242	20.8	0.443	-156.			
33	-168.	3.28	32.0	0.510	1.284E-02	119.
0.247	20.7	0.447	-156.			

34	-167.	3.28	33.0	0.516	1.316E-02	119.
0.251	20.7	0.451	-156.			
35	-166.	3.28	34.0	0.522	1.349E-02	119.
0.255	20.6	0.456	-156.			
36	-165.	3.28	35.0	0.529	1.383E-02	119.
0.260	20.6	0.460	-156.			
37	-164.	3.28	36.0	0.535	1.418E-02	120.
0.264	20.5	0.465	-156.			
38	-163.	3.28	37.0	0.541	1.454E-02	120.
0.269	20.5	0.470	-156.			
39	-162.	3.28	38.0	0.548	1.491E-02	120.
0.274	20.4	0.475	-156.			
40	-161.	3.28	39.0	0.555	1.529E-02	120.
0.279	20.4	0.479	-156.			
41	-160.	3.28	40.0	0.561	1.568E-02	120.
0.284	20.3	0.484	-156.			
42	-159.	3.28	41.0	0.568	1.608E-02	121.
0.289	20.3	0.489	-156.			
43	-158.	3.28	42.0	0.575	1.649E-02	121.
0.295	20.2	0.494	-156.			
44	-157.	3.28	43.0	0.582	1.692E-02	121.
0.300	20.2	0.499	-156.			
45	-156.	3.28	44.0	0.590	1.736E-02	121.
0.306	20.1	0.505	-156.			
46	-155.	3.28	45.0	0.597	1.782E-02	121.
0.312	20.1	0.510	-156.			
47	-154.	3.28	46.0	0.605	1.829E-02	122.
0.318	20.0	0.515	-156.			
48	-153.	3.28	47.0	0.612	1.877E-02	122.
0.324	20.0	0.520	-156.			
49	-152.	3.28	48.0	0.620	1.927E-02	122.
0.330	19.9	0.526	-156.			
50	-151.	3.28	49.0	0.628	1.978E-02	122.
0.336	19.9	0.531	-156.			
51	-150.	3.28	50.0	0.637	2.031E-02	123.
0.343	19.8	0.537	-156.			
52	-149.	3.28	51.0	0.645	2.086E-02	123.
0.349	19.8	0.542	-156.			
53	-148.	3.28	52.0	0.653	2.142E-02	123.
0.356	19.7	0.548	-156.			
54	-147.	3.28	53.0	0.662	2.200E-02	123.
0.363	19.7	0.554	-156.			
55	-146.	3.28	54.0	0.671	2.260E-02	123.
0.370	19.6	0.560	-156.			
56	-145.	3.28	55.0	0.680	2.322E-02	124.
0.378	19.6	0.566	-156.			
57	-144.	3.28	56.0	0.689	2.386E-02	124.
0.385	19.5	0.572	-156.			
58	-143.	3.28	57.0	0.698	2.452E-02	124.
0.393	19.5	0.578	-156.			

59	-142.	3.28	58.0	0.708	2.520E-02	124.
0.401	19.4	0.584	-156.			
60	-141.	3.28	59.0	0.717	2.591E-02	125.
0.409	19.4	0.590	-156.			
61	-140.	3.28	60.0	0.727	2.664E-02	125.
0.418	19.3	0.596	-156.			
62	-139.	3.28	61.0	0.738	2.739E-02	125.
0.426	19.2	0.603	-156.			
63	-138.	3.28	62.0	0.748	2.817E-02	126.
0.435	19.2	0.609	-156.			
64	-137.	3.28	63.0	0.758	2.897E-02	126.
0.444	19.1	0.615	-156.			
65	-136.	3.28	64.0	0.769	2.981E-02	126.
0.453	19.1	0.622	-156.			
66	-135.	3.28	65.0	0.780	3.067E-02	126.
0.463	19.0	0.629	-156.			
67	-134.	3.28	66.0	0.791	3.156E-02	127.
0.473	19.0	0.635	-156.			
68	-133.	3.28	67.0	0.803	3.248E-02	127.
0.483	18.9	0.642	-156.			
69	-132.	3.28	68.0	0.814	3.343E-02	127.
0.493	18.8	0.649	-156.			
70	-131.	3.28	69.0	0.826	3.442E-02	128.
0.504	18.8	0.656	-156.			
71	-130.	3.28	70.0	0.839	3.544E-02	128.
0.515	18.7	0.663	-156.			
72	-129.	3.28	71.0	0.851	3.650E-02	128.
0.526	18.7	0.670	-156.			
73	-128.	3.28	72.0	0.864	3.759E-02	128.
0.538	18.6	0.677	-156.			
74	-127.	3.28	73.0	0.877	3.873E-02	129.
0.550	18.5	0.684	-156.			
75	-126.	3.28	74.0	0.890	3.991E-02	129.
0.562	18.5	0.691	-156.			
76	-125.	3.28	75.0	0.904	4.113E-02	129.
0.575	18.4	0.698	-156.			
77	-124.	3.28	76.0	0.917	4.239E-02	130.
0.588	18.4	0.705	-156.			
78	-123.	3.28	77.0	0.932	4.370E-02	130.
0.601	18.3	0.713	-156.			
79	-122.	3.28	78.0	0.946	4.506E-02	130.
0.615	18.2	0.720	-156.			
80	-121.	3.28	79.0	0.961	4.647E-02	131.
0.629	18.2	0.728	-156.			
81	-120.	3.28	80.0	0.976	4.793E-02	131.
0.644	18.1	0.735	-156.			
82	-119.	3.28	81.0	0.992	4.944E-02	132.
0.659	18.1	0.743	-156.			
83	-118.	3.28	82.0	1.01	5.102E-02	132.
0.674	18.0	0.750	-156.			

84	-117.	3.28	83.0	1.02	5.265E-02	132.
0.690	17.9	0.758	-156.			
85	-116.	3.28	84.0	1.04	5.435E-02	133.
0.707	17.9	0.765	-156.			
86	-115.	3.28	85.0	1.06	5.611E-02	133.
0.724	17.8	0.773	-156.			
87	-114.	3.28	86.0	1.07	5.794E-02	134.
0.741	17.7	0.780	-156.			
88	-113.	3.28	87.0	1.09	5.985E-02	134.
0.759	17.7	0.788	-156.			
89	-112.	3.28	88.0	1.11	6.182E-02	134.
0.778	17.6	0.795	-156.			
90	-111.	3.28	89.0	1.13	6.388E-02	135.
0.797	17.5	0.803	-156.			
91	-110.	3.28	90.0	1.15	6.602E-02	135.
0.816	17.5	0.810	-156.			
92	-109.	3.28	91.0	1.17	6.824E-02	136.
0.836	17.4	0.818	-156.			
93	-108.	3.28	92.0	1.19	7.055E-02	136.
0.857	17.4	0.825	-156.			
94	-107.	3.28	93.0	1.21	7.295E-02	137.
0.879	17.3	0.832	-156.			
95	-106.	3.28	94.0	1.23	7.546E-02	137.
0.901	17.2	0.839	-156.			
96	-105.	3.28	95.0	1.25	7.806E-02	138.
0.924	17.2	0.847	-156.			
97	-104.	3.28	96.0	1.27	8.077E-02	138.
0.947	17.1	0.853	-156.			
98	-103.	3.28	97.0	1.29	8.360E-02	139.
0.972	17.0	0.860	-156.			
99	-102.	3.28	98.0	1.32	8.654E-02	139.
0.997	17.0	0.867	-155.			
100	-101.	3.28	99.0	1.34	8.961E-02	140.
1.02	16.9	0.874	-155.			
101	-100.	3.28	100.	1.37	9.280E-02	140.
1.05	16.8	0.880	-155.			
102	-99.0	3.28	101.	1.39	9.613E-02	141.
1.08	16.8	0.886	-155.			
103	-98.0	3.28	102.	1.42	9.960E-02	141.
1.10	16.7	0.892	-155.			
104	-97.0	3.28	103.	1.44	0.103	142.
1.13	16.7	0.897	-155.			
105	-96.0	3.28	104.	1.47	0.107	142.
1.16	16.6	0.903	-155.			
106	-95.0	3.28	105.	1.50	0.111	143.
1.19	16.5	0.908	-155.			
107	-94.0	3.28	106.	1.52	0.115	143.
1.23	16.5	0.912	-155.			
108	-93.0	3.28	107.	1.55	0.119	144.
1.26	16.4	0.916	-154.			

109	-92.0	3.28	108.	1.58	0.124	145.
1.29	16.4	0.920	-154.			
110	-91.0	3.28	109.	1.61	0.128	145.
1.33	16.3	0.923	-154.			
111	-90.0	3.28	110.	1.64	0.133	146.
1.36	16.2	0.926	-154.			
112	-89.0	3.28	111.	1.68	0.138	147.
1.40	16.2	0.928	-154.			
113	-88.0	3.28	112.	1.71	0.144	147.
1.44	16.1	0.930	-153.			
114	-87.0	3.28	113.	1.74	0.149	148.
1.48	16.1	0.931	-153.			
115	-86.0	3.28	114.	1.78	0.155	149.
1.52	16.0	0.931	-153.			
116	-85.0	3.28	115.	1.81	0.161	149.
1.56	16.0	0.930	-152.			
117	-84.0	3.28	116.	1.85	0.168	150.
1.61	15.9	0.929	-152.			
118	-83.0	3.28	117.	1.88	0.174	151.
1.65	15.9	0.927	-152.			
119	-82.0	3.28	118.	1.92	0.181	152.
1.70	15.8	0.923	-151.			
120	-81.0	3.28	119.	1.96	0.188	153.
1.74	15.8	0.919	-151.			
121	-80.0	3.28	120.	2.00	0.196	153.
1.79	15.8	0.914	-150.			
122	-79.0	3.28	121.	2.04	0.204	154.
1.84	15.7	0.907	-150.			
123	-78.0	3.28	122.	2.08	0.212	155.
1.89	15.7	0.899	-149.			
124	-77.0	3.28	123.	2.13	0.221	156.
1.94	15.7	0.890	-149.			
125	-76.0	3.28	124.	2.17	0.230	157.
2.00	15.6	0.880	-148.			
126	-75.0	3.28	125.	2.21	0.239	158.
2.05	15.6	0.868	-147.			
127	-74.0	3.28	126.	2.26	0.249	159.
2.11	15.6	0.854	-146.			
128	-73.0	3.28	127.	2.31	0.260	160.
2.16	15.6	0.839	-145.			
129	-72.0	3.28	128.	2.35	0.271	161.
2.22	15.6	0.823	-144.			
130	-71.0	3.28	129.	2.40	0.282	162.
2.28	15.6	0.804	-143.			
131	-70.0	3.28	130.	2.45	0.294	163.
2.34	15.6	0.784	-141.			
132	-69.0	3.28	131.	2.50	0.306	164.
2.40	15.6	0.763	-140.			
133	-68.0	3.28	132.	2.55	0.319	165.
2.47	15.6	0.740	-138.			

134	-67.0	3.28	133.	2.61	0.333	166.
2.53	15.6	0.715	-136.			
135	-66.0	3.28	134.	2.66	0.347	167.
2.59	15.6	0.689	-133.			
136	-65.0	3.28	135.	2.72	0.362	168.
2.66	15.7	0.663	-130.			
137	-64.0	3.28	136.	2.77	0.377	169.
2.73	15.7	0.635	-127.			
138	-63.0	3.28	137.	2.83	0.394	170.
2.79	15.7	0.608	-123.			
139	-62.0	3.28	138.	2.89	0.410	172.
2.86	15.8	0.582	-119.			
140	-61.0	3.28	139.	2.95	0.428	173.
2.92	15.9	0.558	-113.			
141	-60.0	3.28	140.	3.01	0.446	174.
2.99	16.0	0.537	-107.			
142	-59.0	3.28	141.	3.07	0.466	176.
3.06	16.0	0.522	-100.			
143	-58.0	3.28	142.	3.13	0.486	177.
3.12	16.2	0.514	-92.7			
144	-57.0	3.28	143.	3.19	0.506	178.
3.19	16.3	0.516	-84.4			
145	-56.0	3.28	144.	3.25	0.528	180.
3.25	16.4	0.529	-75.8			
146	-55.0	3.28	145.	3.31	0.551	1.05
3.31	16.6	0.554	-67.3			
147	-54.0	3.28	146.	3.38	0.574	2.50
3.37	16.7	0.592	-59.3			
148	-53.0	3.28	147.	3.44	0.599	3.97
3.43	16.9	0.643	-52.0			
149	-52.0	3.28	148.	3.50	0.624	5.48
3.49	17.1	0.706	-45.6			
150	-51.0	3.28	149.	3.57	0.650	7.01
3.54	17.3	0.779	-40.0			
151	-50.0	3.28	150.	3.63	0.678	8.56
3.59	17.6	0.861	-35.1			
152	-49.0	3.28	151.	3.70	0.706	10.1
3.64	17.9	0.952	-31.0			
153	-48.0	3.28	152.	3.76	0.735	11.8
3.68	18.2	1.05	-27.4			
154	-47.0	3.28	153.	3.82	0.765	13.4
3.72	18.5	1.16	-24.3			
155	-46.0	3.28	154.	3.88	0.797	15.0
3.76	18.9	1.27	-21.6			
156	-45.0	3.28	155.	3.95	0.829	16.7
3.79	19.3	1.39	-19.3			
157	-44.0	3.28	156.	4.01	0.862	18.4
3.81	19.7	1.51	-17.3			
158	-43.0	3.28	157.	4.07	0.896	20.1
3.83	20.2	1.63	-15.5			

159	-42.0	3.28	158.	4.13	0.932	21.9
3.85	20.7	1.76	-13.8			
160	-41.0	3.28	159.	4.19	0.968	23.6
3.85	21.2	1.90	-12.4			
161	-40.0	3.28	160.	4.24	1.01	25.4
3.86	21.8	2.03	-11.1			
162	-39.0	3.28	161.	4.30	1.04	27.2
3.85	22.5	2.17	-9.88			
163	-38.0	3.28	162.	4.35	1.08	29.0
3.84	23.2	2.31	-8.78			
164	-37.0	3.28	163.	4.40	1.12	30.8
3.82	24.0	2.45	-7.76			
165	-36.0	3.28	164.	4.45	1.16	32.7
3.80	24.9	2.59	-6.81			
166	-35.0	3.28	165.	4.50	1.20	34.5
3.77	25.8	2.74	-5.91			
167	-34.0	3.28	166.	4.55	1.25	36.4
3.74	26.8	2.88	-5.06			
168	-33.0	3.28	167.	4.59	1.29	38.2
3.69	27.9	3.01	-4.25			
169	-32.0	3.28	168.	4.63	1.33	40.1
3.65	29.0	3.15	-3.46			
170	-31.0	3.28	169.	4.67	1.38	41.9
3.60	30.3	3.28	-2.70			
171	-30.0	3.28	170.	4.71	1.42	43.8
3.54	31.7	3.41	-1.95			
172	-29.0	3.28	171.	4.74	1.47	45.6
3.48	33.2	3.54	-1.22			
173	-28.0	3.28	172.	4.78	1.51	47.5
3.42	34.8	3.66	-0.486			
174	-27.0	3.28	173.	4.81	1.56	49.3
3.35	36.5	3.78	0.247			
175	-26.0	3.28	174.	4.83	1.60	51.1
3.28	38.4	3.89	0.984			
176	-25.0	3.28	175.	4.86	1.65	52.9
3.21	40.3	4.00	1.73			
177	-24.0	3.28	176.	4.88	1.70	54.7
3.14	42.5	4.10	2.49			
178	-23.0	3.28	177.	4.90	1.74	56.5
3.07	44.8	4.20	3.27			
179	-22.0	3.28	178.	4.92	1.79	58.3
3.00	47.2	4.29	4.06			
180	-21.0	3.28	179.	4.94	1.84	60.0
2.93	49.8	4.37	4.88			
181	-20.0	3.28	180.	4.95	1.88	61.8
2.87	52.5	4.45	5.73			
182	-19.0	3.28	181.	4.96	1.93	63.5
2.81	55.4	4.52	6.60			
183	-18.0	3.28	182.	4.98	1.97	65.1
2.75	58.4	4.59	7.51			

184	-17.0	3.28	183.	4.98	2.01	66.8
2.70	61.6	4.65	8.45			
185	-16.0	3.28	184.	4.99	2.06	68.4
2.65	64.9	4.70	9.43			
186	-15.0	3.28	185.	5.00	2.10	70.0
2.61	68.2	4.75	10.4			
187	-14.0	3.28	186.	5.00	2.14	71.5
2.57	71.7	4.79	11.5			
188	-13.0	3.28	187.	5.00	2.18	73.1
2.54	75.2	4.83	12.6			
189	-12.0	3.28	188.	5.01	2.21	74.6
2.52	78.7	4.86	13.7			
190	-11.0	3.28	189.	5.01	2.25	76.0
2.49	82.3	4.89	14.9			
191	-10.0	3.28	190.	5.01	2.28	77.4
2.48	85.8	4.91	16.1			
192	-9.00	3.28	191.	5.01	2.31	78.8
2.47	89.4	4.93	17.4			
193	-8.00	3.28	192.	5.01	2.34	80.1
2.46	92.9	4.95	18.7			
194	-7.00	3.28	193.	5.01	2.36	81.5
2.45	96.4	4.96	20.0			
195	-6.00	3.28	194.	5.00	2.39	82.7
2.45	99.9	4.97	21.4			
196	-5.00	3.28	195.	5.00	2.40	84.0
2.45	103.	4.98	22.8			
197	-4.00	3.28	196.	5.00	2.42	85.2
2.45	107.	4.99	24.2			
198	-3.00	3.28	197.	5.00	2.43	86.4
2.45	110.	4.99	25.6			
199	-2.00	3.28	198.	5.00	2.44	87.6
2.45	113.	5.00	27.1			
200	-1.00	3.28	199.	5.00	2.45	88.8
2.45	117.	5.00	28.6			
201	0.00	3.28	200.	5.00	2.45	90.0
2.45	120.	5.00	30.0			
202	1.00	3.28	201.	5.00	2.45	91.2
2.45	123.	5.00	31.5			
203	2.00	3.28	202.	5.00	2.44	92.3
2.45	127.	5.00	33.0			
204	3.00	3.28	203.	5.00	2.43	93.5
2.45	130.	4.99	34.4			
205	4.00	3.28	204.	5.00	2.42	94.7
2.45	133.	4.99	35.9			
206	5.00	3.28	205.	5.00	2.41	96.0
2.45	137.	4.98	37.3			
207	6.00	3.28	206.	5.00	2.39	97.2
2.45	140.	4.97	38.7			
208	7.00	3.28	207.	5.01	2.36	98.5
2.45	144.	4.96	40.0			

209	8.00	3.28	208.	5.01	2.34	99.8
2.46	147.	4.95	41.4			
210	9.00	3.28	209.	5.01	2.31	101.
2.47	151.	4.93	42.7			
211	10.0	3.28	210.	5.01	2.28	103.
2.48	154.	4.91	43.9			
212	11.0	3.28	211.	5.01	2.25	104.
2.49	158.	4.89	45.1			
213	12.0	3.28	212.	5.01	2.21	105.
2.52	161.	4.86	46.3			
214	13.0	3.28	213.	5.00	2.18	107.
2.54	165.	4.83	47.4			
215	14.0	3.28	214.	5.00	2.14	108.
2.57	168.	4.79	48.5			
216	15.0	3.28	215.	5.00	2.10	110.
2.61	172.	4.75	49.6			
217	16.0	3.28	216.	4.99	2.06	112.
2.65	175.	4.70	50.6			
218	17.0	3.28	217.	4.98	2.02	113.
2.70	178.	4.65	51.6			
219	18.0	3.28	218.	4.98	1.97	115.
2.75	-178.	4.59	52.5			
220	19.0	3.28	219.	4.97	1.93	117.
2.81	-175.	4.53	53.4			
221	20.0	3.28	220.	4.95	1.88	118.
2.87	-173.	4.45	54.3			
222	21.0	3.28	221.	4.94	1.84	120.
2.93	-170.	4.38	55.2			
223	22.0	3.28	222.	4.92	1.79	122.
3.00	-167.	4.29	56.0			
224	23.0	3.28	223.	4.90	1.75	123.
3.07	-165.	4.20	56.8			
225	24.0	3.28	224.	4.88	1.70	125.
3.14	-162.	4.11	57.6			
226	25.0	3.28	225.	4.86	1.65	127.
3.21	-160.	4.00	58.3			
227	26.0	3.28	226.	4.83	1.61	129.
3.28	-158.	3.90	59.1			
228	27.0	3.28	227.	4.81	1.56	131.
3.35	-156.	3.78	59.8			
229	28.0	3.28	228.	4.78	1.52	133.
3.42	-155.	3.67	60.5			
230	29.0	3.28	229.	4.74	1.47	134.
3.48	-153.	3.54	61.3			
231	30.0	3.28	230.	4.71	1.42	136.
3.54	-152.	3.42	62.0			
232	31.0	3.28	231.	4.67	1.38	138.
3.60	-150.	3.29	62.8			
233	32.0	3.28	232.	4.63	1.34	140.
3.65	-149.	3.15	63.5			

234	33.0	3.28	233.	4.59	1.29	142.
3.69	-148.	3.02	64.3			
235	34.0	3.28	234.	4.55	1.25	144.
3.74	-147.	2.88	65.1			
236	35.0	3.28	235.	4.50	1.21	145.
3.77	-146.	2.74	66.0			
237	36.0	3.28	236.	4.45	1.17	147.
3.80	-145.	2.60	66.9			
238	37.0	3.28	237.	4.40	1.13	149.
3.82	-144.	2.46	67.8			
239	38.0	3.28	238.	4.35	1.09	151.
3.84	-143.	2.32	68.9			
240	39.0	3.28	239.	4.30	1.05	153.
3.85	-142.	2.18	70.0			
241	40.0	3.28	240.	4.24	1.01	155.
3.86	-142.	2.04	71.2			
242	41.0	3.28	241.	4.19	0.971	156.
3.85	-141.	1.90	72.5			
243	42.0	3.28	242.	4.13	0.935	158.
3.85	-141.	1.77	73.9			
244	43.0	3.28	243.	4.07	0.900	160.
3.83	-140.	1.64	75.6			
245	44.0	3.28	244.	4.01	0.866	162.
3.81	-140.	1.51	77.4			
246	45.0	3.28	245.	3.95	0.833	163.
3.79	-139.	1.39	79.4			
247	46.0	3.28	246.	3.89	0.801	165.
3.76	-139.	1.27	81.8			
248	47.0	3.28	247.	3.82	0.769	167.
3.72	-138.	1.16	84.4			
249	48.0	3.28	248.	3.76	0.739	168.
3.68	-138.	1.05	87.5			
250	49.0	3.28	249.	3.70	0.710	170.
3.64	-138.	0.956	91.1			
251	50.0	3.28	250.	3.63	0.682	171.
3.59	-138.	0.865	95.2			
252	51.0	3.28	251.	3.57	0.654	173.
3.54	-137.	0.782	100.			
253	52.0	3.28	252.	3.50	0.628	175.
3.49	-137.	0.710	106.			
254	53.0	3.28	253.	3.44	0.603	176.
3.43	-137.	0.647	112.			
255	54.0	3.28	254.	3.38	0.578	177.
3.37	-137.	0.596	119.			
256	55.0	3.28	255.	3.31	0.555	179.
3.31	-137.	0.558	127.			
257	56.0	3.28	256.	3.25	0.532	0.348
3.25	-136.	0.533	136.			
258	57.0	3.28	257.	3.19	0.511	1.74
3.19	-136.	0.519	144.			

259	58.0	3.28	258.	3.13	0.490	3.10
3.12	-136.	0.517	152.			
260	59.0	3.28	259.	3.07	0.470	4.44
3.06	-136.	0.525	160.			
261	60.0	3.28	260.	3.01	0.450	5.75
2.99	-136.	0.540	167.			
262	61.0	3.28	261.	2.95	0.432	7.03
2.92	-136.	0.560	173.			
263	62.0	3.28	262.	2.89	0.414	8.28
2.86	-136.	0.584	178.			
264	63.0	3.28	263.	2.83	0.398	9.51
2.79	-136.	0.610	-177.			
265	64.0	3.28	264.	2.77	0.381	10.7
2.73	-136.	0.637	-173.			
266	65.0	3.28	265.	2.72	0.366	11.9
2.66	-136.	0.664	-170.			
267	66.0	3.28	266.	2.66	0.351	13.0
2.59	-136.	0.691	-167.			
268	67.0	3.28	267.	2.61	0.337	14.1
2.53	-136.	0.716	-165.			
269	68.0	3.28	268.	2.55	0.323	15.2
2.47	-136.	0.741	-162.			
270	69.0	3.28	269.	2.50	0.310	16.3
2.40	-136.	0.764	-161.			
271	70.0	3.28	270.	2.45	0.298	17.4
2.34	-136.	0.785	-159.			
272	71.0	3.28	271.	2.40	0.286	18.4
2.28	-136.	0.805	-158.			
273	72.0	3.28	272.	2.35	0.274	19.4
2.22	-136.	0.823	-156.			
274	73.0	3.28	273.	2.31	0.264	20.4
2.16	-136.	0.840	-155.			
275	74.0	3.28	274.	2.26	0.253	21.3
2.11	-136.	0.855	-154.			
276	75.0	3.28	275.	2.21	0.243	22.3
2.05	-136.	0.868	-153.			
277	76.0	3.28	276.	2.17	0.234	23.2
2.00	-136.	0.880	-152.			
278	77.0	3.28	277.	2.12	0.225	24.1
1.94	-136.	0.890	-152.			
279	78.0	3.28	278.	2.08	0.216	24.9
1.89	-136.	0.899	-151.			
280	79.0	3.28	279.	2.04	0.208	25.8
1.84	-136.	0.907	-150.			
281	80.0	3.28	280.	2.00	0.200	26.6
1.79	-136.	0.914	-150.			
282	81.0	3.28	281.	1.96	0.192	27.4
1.74	-136.	0.919	-149.			
283	82.0	3.28	282.	1.92	0.185	28.2
1.70	-136.	0.923	-149.			

284	83.0	3.28	283.	1.88	0.178	29.0
1.65	-136.	0.927	-149.			
285	84.0	3.28	284.	1.85	0.171	29.8
1.61	-136.	0.929	-148.			
286	85.0	3.28	285.	1.81	0.165	30.5
1.56	-136.	0.930	-148.			
287	86.0	3.28	286.	1.78	0.159	31.2
1.52	-136.	0.931	-148.			
288	87.0	3.28	287.	1.74	0.153	31.9
1.48	-136.	0.931	-147.			
289	88.0	3.28	288.	1.71	0.147	32.6
1.44	-136.	0.930	-147.			
290	89.0	3.28	289.	1.68	0.142	33.3
1.40	-136.	0.928	-147.			
291	90.0	3.28	290.	1.64	0.137	34.0
1.36	-136.	0.926	-146.			
292	91.0	3.28	291.	1.61	0.132	34.6
1.33	-136.	0.923	-146.			
293	92.0	3.28	292.	1.58	0.127	35.3
1.29	-136.	0.920	-146.			
294	93.0	3.28	293.	1.55	0.123	35.9
1.26	-136.	0.916	-146.			
295	94.0	3.28	294.	1.52	0.118	36.5
1.23	-136.	0.912	-146.			
296	95.0	3.28	295.	1.50	0.114	37.1
1.19	-137.	0.907	-146.			
297	96.0	3.28	296.	1.47	0.110	37.7
1.16	-137.	0.902	-145.			
298	97.0	3.28	297.	1.44	0.107	38.3
1.13	-137.	0.897	-145.			
299	98.0	3.28	298.	1.42	0.103	38.8
1.10	-137.	0.891	-145.			
300	99.0	3.28	299.	1.39	9.947E-02	39.4
1.08	-137.	0.886	-145.			
301	100.	3.28	300.	1.37	9.612E-02	39.9
1.05	-137.	0.879	-145.			
302	101.	3.28	301.	1.34	9.291E-02	40.5
1.02	-137.	0.873	-145.			
303	102.	3.28	302.	1.32	8.982E-02	41.0
0.997	-137.	0.867	-145.			
304	103.	3.28	303.	1.29	8.686E-02	41.5
0.972	-137.	0.860	-145.			
305	104.	3.28	304.	1.27	8.402E-02	42.0
0.947	-137.	0.853	-145.			
306	105.	3.28	305.	1.25	8.129E-02	42.5
0.924	-137.	0.846	-145.			
307	106.	3.28	306.	1.23	7.866E-02	42.9
0.901	-137.	0.839	-145.			
308	107.	3.28	307.	1.21	7.614E-02	43.4
0.879	-137.	0.832	-144.			

309	108.	3.28	308.	1.19	7.372E-02	43.9
0.857	-137.	0.825	-144.			
310	109.	3.28	309.	1.17	7.139E-02	44.3
0.837	-137.	0.817	-144.			
311	110.	3.28	310.	1.15	6.915E-02	44.8
0.816	-137.	0.810	-144.			
312	111.	3.28	311.	1.13	6.699E-02	45.2
0.797	-138.	0.802	-144.			
313	112.	3.28	312.	1.11	6.492E-02	45.6
0.778	-138.	0.795	-144.			
314	113.	3.28	313.	1.09	6.293E-02	46.0
0.759	-138.	0.787	-144.			
315	114.	3.28	314.	1.07	6.101E-02	46.5
0.741	-138.	0.780	-144.			
316	115.	3.28	315.	1.06	5.916E-02	46.9
0.724	-138.	0.772	-144.			
317	116.	3.28	316.	1.04	5.738E-02	47.3
0.707	-138.	0.765	-144.			
318	117.	3.28	317.	1.02	5.567E-02	47.6
0.691	-138.	0.757	-144.			
319	118.	3.28	318.	1.01	5.402E-02	48.0
0.675	-138.	0.750	-144.			
320	119.	3.28	319.	0.991	5.243E-02	48.4
0.659	-138.	0.742	-144.			
321	120.	3.28	320.	0.976	5.089E-02	48.8
0.644	-138.	0.735	-144.			
322	121.	3.28	321.	0.960	4.942E-02	49.1
0.629	-138.	0.727	-144.			
323	122.	3.28	322.	0.946	4.799E-02	49.5
0.615	-138.	0.720	-144.			
324	123.	3.28	323.	0.931	4.662E-02	49.8
0.602	-138.	0.712	-144.			
325	124.	3.28	324.	0.917	4.530E-02	50.2
0.588	-138.	0.705	-144.			
326	125.	3.28	325.	0.903	4.402E-02	50.5
0.575	-138.	0.698	-144.			
327	126.	3.28	326.	0.890	4.278E-02	50.9
0.562	-138.	0.691	-144.			
328	127.	3.28	327.	0.876	4.159E-02	51.2
0.550	-139.	0.683	-144.			
329	128.	3.28	328.	0.863	4.044E-02	51.5
0.538	-139.	0.676	-144.			
330	129.	3.28	329.	0.851	3.933E-02	51.8
0.527	-139.	0.669	-144.			
331	130.	3.28	330.	0.838	3.826E-02	52.1
0.515	-139.	0.662	-144.			
332	131.	3.28	331.	0.826	3.723E-02	52.4
0.504	-139.	0.655	-144.			
333	132.	3.28	332.	0.814	3.623E-02	52.8
0.494	-139.	0.648	-144.			

334	133.	3.28	333.	0.802	3.526E-02	53.0
0.483	-139.	0.642	-144.			
335	134.	3.28	334.	0.791	3.433E-02	53.3
0.473	-139.	0.635	-144.			
336	135.	3.28	335.	0.780	3.342E-02	53.6
0.463	-139.	0.628	-144.			
337	136.	3.28	336.	0.769	3.255E-02	53.9
0.454	-139.	0.622	-144.			
338	137.	3.28	337.	0.758	3.171E-02	54.2
0.444	-139.	0.615	-144.			
339	138.	3.28	338.	0.747	3.089E-02	54.5
0.435	-139.	0.609	-144.			
340	139.	3.28	339.	0.737	3.010E-02	54.7
0.426	-139.	0.602	-144.			
341	140.	3.28	340.	0.727	2.933E-02	55.0
0.418	-139.	0.596	-144.			
342	141.	3.28	341.	0.717	2.859E-02	55.3
0.409	-139.	0.590	-144.			
343	142.	3.28	342.	0.707	2.788E-02	55.5
0.401	-139.	0.583	-144.			
344	143.	3.28	343.	0.698	2.718E-02	55.8
0.393	-139.	0.577	-144.			
345	144.	3.28	344.	0.689	2.651E-02	56.0
0.385	-139.	0.571	-144.			
346	145.	3.28	345.	0.679	2.586E-02	56.3
0.378	-140.	0.565	-144.			
347	146.	3.28	346.	0.670	2.523E-02	56.5
0.370	-140.	0.559	-144.			
348	147.	3.28	347.	0.662	2.462E-02	56.8
0.363	-140.	0.553	-144.			
349	148.	3.28	348.	0.653	2.403E-02	57.0
0.356	-140.	0.548	-144.			
350	149.	3.28	349.	0.644	2.345E-02	57.2
0.349	-140.	0.542	-144.			
351	150.	3.28	350.	0.636	2.290E-02	57.5
0.343	-140.	0.536	-144.			
352	151.	3.28	351.	0.628	2.236E-02	57.7
0.336	-140.	0.531	-144.			
353	152.	3.28	352.	0.620	2.183E-02	57.9
0.330	-140.	0.525	-144.			
354	153.	3.28	353.	0.612	2.133E-02	58.1
0.324	-140.	0.520	-144.			
355	154.	3.28	354.	0.604	2.083E-02	58.4
0.318	-140.	0.515	-144.			
356	155.	3.28	355.	0.597	2.036E-02	58.6
0.312	-140.	0.509	-144.			
357	156.	3.28	356.	0.589	1.989E-02	58.8
0.306	-140.	0.504	-144.			
358	157.	3.28	357.	0.582	1.944E-02	59.0
0.300	-140.	0.499	-144.			

359	158.	3.28	358.	0.575	1.901E-02	59.2
0.295	-140.	0.494	-144.			
360	159.	3.28	359.	0.568	1.858E-02	59.4
0.290	-140.	0.489	-144.			
361	160.	3.28	360.	0.561	1.817E-02	59.6
0.284	-140.	0.484	-144.			
362	161.	3.28	361.	0.554	1.777E-02	59.8
0.279	-140.	0.479	-145.			
363	162.	3.28	362.	0.548	1.738E-02	60.0
0.274	-140.	0.474	-145.			
364	163.	3.28	363.	0.541	1.700E-02	60.2
0.269	-140.	0.469	-145.			
365	164.	3.28	364.	0.535	1.664E-02	60.4
0.265	-140.	0.465	-145.			
366	165.	3.28	365.	0.528	1.628E-02	60.6
0.260	-140.	0.460	-145.			
367	166.	3.28	366.	0.522	1.593E-02	60.8
0.255	-141.	0.456	-145.			
368	167.	3.28	367.	0.516	1.560E-02	60.9
0.251	-141.	0.451	-145.			
369	168.	3.28	368.	0.510	1.527E-02	61.1
0.247	-141.	0.447	-145.			
370	169.	3.28	369.	0.504	1.495E-02	61.3
0.242	-141.	0.442	-145.			
371	170.	3.28	370.	0.498	1.464E-02	61.5
0.238	-141.	0.438	-145.			
372	171.	3.28	371.	0.492	1.434E-02	61.6
0.234	-141.	0.433	-145.			
373	172.	3.28	372.	0.487	1.405E-02	61.8
0.230	-141.	0.429	-145.			
374	173.	3.28	373.	0.481	1.376E-02	62.0
0.226	-141.	0.425	-145.			
375	174.	3.28	374.	0.476	1.348E-02	62.2
0.223	-141.	0.421	-145.			
376	175.	3.28	375.	0.471	1.321E-02	62.3
0.219	-141.	0.417	-145.			
377	176.	3.28	376.	0.465	1.295E-02	62.5
0.215	-141.	0.413	-145.			
378	177.	3.28	377.	0.460	1.270E-02	62.7
0.212	-141.	0.409	-145.			
379	178.	3.28	378.	0.455	1.245E-02	62.8
0.208	-141.	0.405	-145.			
380	179.	3.28	379.	0.450	1.220E-02	63.0
0.205	-141.	0.401	-145.			
381	180.	3.28	380.	0.445	1.197E-02	63.1
0.202	-141.	0.397	-145.			
382	181.	3.28	381.	0.440	1.174E-02	63.3
0.198	-141.	0.393	-145.			
383	182.	3.28	382.	0.436	1.151E-02	63.4
0.195	-141.	0.390	-145.			

By	/_By	Bz	/_Bz	origin	mG	mG	degrees
mG	degrees	mG	degrees	degrees			
	feet	feet	feet	feet			
1	-200.	3.28	0.00		4.55	7.644E-02	114.
1.86	22.0	4.15	-155.				
2	-199.	3.28	1.00		4.59	7.818E-02	114.
1.88	22.0	4.19	-155.				
3	-198.	3.28	2.00		4.64	7.996E-02	114.
1.91	22.0	4.23	-155.				
4	-197.	3.28	3.00		4.69	8.178E-02	114.
1.94	21.9	4.27	-155.				
5	-196.	3.28	4.00		4.73	8.365E-02	115.
1.97	21.9	4.31	-155.				
6	-195.	3.28	5.00		4.78	8.556E-02	115.
2.00	21.8	4.35	-155.				
7	-194.	3.28	6.00		4.83	8.752E-02	115.
2.03	21.8	4.39	-155.				
8	-193.	3.28	7.00		4.88	8.954E-02	115.
2.06	21.8	4.43	-155.				
9	-192.	3.28	8.00		4.93	9.160E-02	115.
2.09	21.7	4.47	-156.				
10	-191.	3.28	9.00		4.98	9.371E-02	115.
2.13	21.7	4.51	-156.				
11	-190.	3.28	10.0		5.03	9.588E-02	115.
2.16	21.6	4.55	-156.				
12	-189.	3.28	11.0		5.09	9.811E-02	116.
2.19	21.6	4.59	-156.				
13	-188.	3.28	12.0		5.14	0.100	116.
2.23	21.6	4.63	-156.				
14	-187.	3.28	13.0		5.19	0.103	116.
2.26	21.5	4.68	-156.				
15	-186.	3.28	14.0		5.25	0.105	116.
2.30	21.5	4.72	-156.				
16	-185.	3.28	15.0		5.31	0.108	116.
2.34	21.4	4.77	-156.				
17	-184.	3.28	16.0		5.36	0.110	116.
2.37	21.4	4.81	-156.				
18	-183.	3.28	17.0		5.42	0.113	116.
2.41	21.4	4.86	-156.				
19	-182.	3.28	18.0		5.48	0.115	117.
2.45	21.3	4.90	-156.				
20	-181.	3.28	19.0		5.54	0.118	117.
2.49	21.3	4.95	-156.				
21	-180.	3.28	20.0		5.60	0.121	117.
2.53	21.2	5.00	-156.				
22	-179.	3.28	21.0		5.66	0.124	117.
2.57	21.2	5.04	-156.				

23	-178.	3.28	22.0	5.72	0.127	117.
2.62	21.2	5.09	-156.			
24	-177.	3.28	23.0	5.79	0.130	117.
2.66	21.1	5.14	-156.			
25	-176.	3.28	24.0	5.85	0.133	117.
2.70	21.1	5.19	-156.			
26	-175.	3.28	25.0	5.92	0.136	118.
2.75	21.0	5.24	-156.			
27	-174.	3.28	26.0	5.99	0.140	118.
2.80	21.0	5.29	-156.			
28	-173.	3.28	27.0	6.05	0.143	118.
2.84	20.9	5.35	-156.			
29	-172.	3.28	28.0	6.12	0.146	118.
2.89	20.9	5.40	-156.			
30	-171.	3.28	29.0	6.19	0.150	118.
2.94	20.9	5.45	-156.			
31	-170.	3.28	30.0	6.27	0.154	119.
2.99	20.8	5.51	-156.			
32	-169.	3.28	31.0	6.34	0.157	119.
3.04	20.8	5.56	-156.			
33	-168.	3.28	32.0	6.41	0.161	119.
3.10	20.7	5.62	-156.			
34	-167.	3.28	33.0	6.49	0.165	119.
3.15	20.7	5.67	-156.			
35	-166.	3.28	34.0	6.56	0.170	119.
3.21	20.6	5.73	-156.			
36	-165.	3.28	35.0	6.64	0.174	119.
3.27	20.6	5.79	-156.			
37	-164.	3.28	36.0	6.72	0.178	120.
3.32	20.5	5.85	-156.			
38	-163.	3.28	37.0	6.80	0.183	120.
3.38	20.5	5.90	-156.			
39	-162.	3.28	38.0	6.88	0.187	120.
3.44	20.4	5.96	-156.			
40	-161.	3.28	39.0	6.97	0.192	120.
3.51	20.4	6.02	-156.			
41	-160.	3.28	40.0	7.05	0.197	120.
3.57	20.3	6.09	-156.			
42	-159.	3.28	41.0	7.14	0.202	121.
3.64	20.3	6.15	-156.			
43	-158.	3.28	42.0	7.23	0.207	121.
3.70	20.2	6.21	-156.			
44	-157.	3.28	43.0	7.32	0.213	121.
3.77	20.2	6.28	-156.			
45	-156.	3.28	44.0	7.41	0.218	121.
3.84	20.1	6.34	-156.			
46	-155.	3.28	45.0	7.50	0.224	121.
3.92	20.1	6.41	-156.			
47	-154.	3.28	46.0	7.60	0.230	122.
3.99	20.0	6.47	-156.			

48	-153.	3.28	47.0	7.70	0.236	122.
4.07	20.0	6.54	-156.			
49	-152.	3.28	48.0	7.80	0.242	122.
4.14	19.9	6.61	-156.			
50	-151.	3.28	49.0	7.90	0.249	122.
4.22	19.9	6.68	-156.			
51	-150.	3.28	50.0	8.00	0.255	123.
4.30	19.8	6.75	-156.			
52	-149.	3.28	51.0	8.10	0.262	123.
4.39	19.8	6.82	-156.			
53	-148.	3.28	52.0	8.21	0.269	123.
4.47	19.7	6.89	-156.			
54	-147.	3.28	53.0	8.32	0.276	123.
4.56	19.7	6.96	-156.			
55	-146.	3.28	54.0	8.43	0.284	123.
4.65	19.6	7.03	-156.			
56	-145.	3.28	55.0	8.54	0.292	124.
4.75	19.6	7.11	-156.			
57	-144.	3.28	56.0	8.66	0.300	124.
4.84	19.5	7.18	-156.			
58	-143.	3.28	57.0	8.77	0.308	124.
4.94	19.5	7.26	-156.			
59	-142.	3.28	58.0	8.89	0.317	124.
5.04	19.4	7.34	-156.			
60	-141.	3.28	59.0	9.02	0.326	125.
5.14	19.4	7.41	-156.			
61	-140.	3.28	60.0	9.14	0.335	125.
5.25	19.3	7.49	-156.			
62	-139.	3.28	61.0	9.27	0.344	125.
5.36	19.2	7.57	-156.			
63	-138.	3.28	62.0	9.40	0.354	126.
5.47	19.2	7.65	-156.			
64	-137.	3.28	63.0	9.53	0.364	126.
5.58	19.1	7.73	-156.			
65	-136.	3.28	64.0	9.67	0.375	126.
5.70	19.1	7.82	-156.			
66	-135.	3.28	65.0	9.80	0.385	126.
5.82	19.0	7.90	-156.			
67	-134.	3.28	66.0	9.94	0.397	127.
5.94	19.0	7.98	-156.			
68	-133.	3.28	67.0	10.1	0.408	127.
6.07	18.9	8.07	-156.			
69	-132.	3.28	68.0	10.2	0.420	127.
6.20	18.8	8.15	-156.			
70	-131.	3.28	69.0	10.4	0.433	128.
6.34	18.8	8.24	-156.			
71	-130.	3.28	70.0	10.5	0.445	128.
6.47	18.7	8.33	-156.			
72	-129.	3.28	71.0	10.7	0.459	128.
6.62	18.7	8.41	-156.			

73	-128.	3.28	72.0	10.9	0.472	128.
6.76	18.6	8.50	-156.			
74	-127.	3.28	73.0	11.0	0.487	129.
6.91	18.5	8.59	-156.			
75	-126.	3.28	74.0	11.2	0.501	129.
7.07	18.5	8.68	-156.			
76	-125.	3.28	75.0	11.4	0.517	129.
7.23	18.4	8.77	-156.			
77	-124.	3.28	76.0	11.5	0.533	130.
7.39	18.4	8.87	-156.			
78	-123.	3.28	77.0	11.7	0.549	130.
7.56	18.3	8.96	-156.			
79	-122.	3.28	78.0	11.9	0.566	130.
7.73	18.2	9.05	-156.			
80	-121.	3.28	79.0	12.1	0.584	131.
7.91	18.2	9.14	-156.			
81	-120.	3.28	80.0	12.3	0.602	131.
8.09	18.1	9.24	-156.			
82	-119.	3.28	81.0	12.5	0.621	132.
8.28	18.1	9.33	-156.			
83	-118.	3.28	82.0	12.7	0.641	132.
8.48	18.0	9.42	-156.			
84	-117.	3.28	83.0	12.9	0.662	132.
8.68	17.9	9.52	-156.			
85	-116.	3.28	84.0	13.1	0.683	133.
8.88	17.9	9.61	-156.			
86	-115.	3.28	85.0	13.3	0.705	133.
9.09	17.8	9.71	-156.			
87	-114.	3.28	86.0	13.5	0.728	134.
9.31	17.7	9.80	-156.			
88	-113.	3.28	87.0	13.7	0.752	134.
9.54	17.7	9.90	-156.			
89	-112.	3.28	88.0	14.0	0.777	134.
9.77	17.6	9.99	-156.			
90	-111.	3.28	89.0	14.2	0.803	135.
10.0	17.5	10.1	-156.			
91	-110.	3.28	90.0	14.4	0.830	135.
10.3	17.5	10.2	-156.			
92	-109.	3.28	91.0	14.7	0.857	136.
10.5	17.4	10.3	-156.			
93	-108.	3.28	92.0	14.9	0.887	136.
10.8	17.4	10.4	-156.			
94	-107.	3.28	93.0	15.2	0.917	137.
11.0	17.3	10.5	-156.			
95	-106.	3.28	94.0	15.4	0.948	137.
11.3	17.2	10.5	-156.			
96	-105.	3.28	95.0	15.7	0.981	138.
11.6	17.2	10.6	-156.			
97	-104.	3.28	96.0	16.0	1.02	138.
11.9	17.1	10.7	-156.			

98	-103.	3.28	97.0	16.3	1.05	139.
12.2	17.0	10.8	-156.			
99	-102.	3.28	98.0	16.6	1.09	139.
12.5	17.0	10.9	-155.			
100	-101.	3.28	99.0	16.9	1.13	140.
12.8	16.9	11.0	-155.			
101	-100.	3.28	100.	17.2	1.17	140.
13.2	16.8	11.1	-155.			
102	-99.0	3.28	101.	17.5	1.21	141.
13.5	16.8	11.1	-155.			
103	-98.0	3.28	102.	17.8	1.25	141.
13.9	16.7	11.2	-155.			
104	-97.0	3.28	103.	18.1	1.30	142.
14.2	16.7	11.3	-155.			
105	-96.0	3.28	104.	18.5	1.34	142.
14.6	16.6	11.3	-155.			
106	-95.0	3.28	105.	18.8	1.39	143.
15.0	16.5	11.4	-155.			
107	-94.0	3.28	106.	19.2	1.45	143.
15.4	16.5	11.5	-155.			
108	-93.0	3.28	107.	19.5	1.50	144.
15.8	16.4	11.5	-154.			
109	-92.0	3.28	108.	19.9	1.56	145.
16.3	16.4	11.6	-154.			
110	-91.0	3.28	109.	20.3	1.61	145.
16.7	16.3	11.6	-154.			
111	-90.0	3.28	110.	20.7	1.68	146.
17.2	16.2	11.6	-154.			
112	-89.0	3.28	111.	21.1	1.74	147.
17.6	16.2	11.7	-154.			
113	-88.0	3.28	112.	21.5	1.81	147.
18.1	16.1	11.7	-153.			
114	-87.0	3.28	113.	21.9	1.88	148.
18.6	16.1	11.7	-153.			
115	-86.0	3.28	114.	22.3	1.95	149.
19.1	16.0	11.7	-153.			
116	-85.0	3.28	115.	22.8	2.03	149.
19.6	16.0	11.7	-152.			
117	-84.0	3.28	116.	23.2	2.11	150.
20.2	15.9	11.7	-152.			
118	-83.0	3.28	117.	23.7	2.19	151.
20.7	15.9	11.6	-152.			
119	-82.0	3.28	118.	24.2	2.28	152.
21.3	15.8	11.6	-151.			
120	-81.0	3.28	119.	24.6	2.37	153.
21.9	15.8	11.5	-151.			
121	-80.0	3.28	120.	25.1	2.46	153.
22.5	15.8	11.5	-150.			
122	-79.0	3.28	121.	25.6	2.56	154.
23.1	15.7	11.4	-150.			

123	-78.0	3.28	122.	26.2	2.67	155.
23.8	15.7	11.3	-149.			
124	-77.0	3.28	123.	26.7	2.78	156.
24.4	15.7	11.2	-149.			
125	-76.0	3.28	124.	27.3	2.89	157.
25.1	15.6	11.1	-148.			
126	-75.0	3.28	125.	27.8	3.01	158.
25.8	15.6	10.9	-147.			
127	-74.0	3.28	126.	28.4	3.13	159.
26.5	15.6	10.7	-146.			
128	-73.0	3.28	127.	29.0	3.26	160.
27.2	15.6	10.5	-145.			
129	-72.0	3.28	128.	29.6	3.40	161.
27.9	15.6	10.3	-144.			
130	-71.0	3.28	129.	30.2	3.54	162.
28.7	15.6	10.1	-143.			
131	-70.0	3.28	130.	30.8	3.69	163.
29.4	15.6	9.86	-141.			
132	-69.0	3.28	131.	31.5	3.85	164.
30.2	15.6	9.59	-140.			
133	-68.0	3.28	132.	32.1	4.01	165.
31.0	15.6	9.30	-138.			
134	-67.0	3.28	133.	32.8	4.18	166.
31.8	15.6	8.99	-136.			
135	-66.0	3.28	134.	33.4	4.36	167.
32.6	15.6	8.66	-133.			
136	-65.0	3.28	135.	34.1	4.55	168.
33.4	15.7	8.33	-130.			
137	-64.0	3.28	136.	34.8	4.74	169.
34.2	15.7	7.98	-127.			
138	-63.0	3.28	137.	35.6	4.94	170.
35.1	15.7	7.64	-123.			
139	-62.0	3.28	138.	36.3	5.16	172.
35.9	15.8	7.31	-119.			
140	-61.0	3.28	139.	37.0	5.38	173.
36.7	15.9	7.01	-113.			
141	-60.0	3.28	140.	37.8	5.61	174.
37.6	16.0	6.75	-107.			
142	-59.0	3.28	141.	38.5	5.85	176.
38.4	16.0	6.56	-100.			
143	-58.0	3.28	142.	39.3	6.10	177.
39.2	16.2	6.46	-92.7			
144	-57.0	3.28	143.	40.1	6.36	178.
40.0	16.3	6.48	-84.4			
145	-56.0	3.28	144.	40.9	6.64	180.
40.8	16.4	6.64	-75.8			
146	-55.0	3.28	145.	41.6	6.92	1.05
41.6	16.6	6.96	-67.3			
147	-54.0	3.28	146.	42.4	7.22	2.50
42.4	16.7	7.44	-59.3			

148	-53.0	3.28	147.	43.2	7.52	3.97
43.1	16.9	8.08	-52.0			
149	-52.0	3.28	148.	44.0	7.84	5.48
43.8	17.1	8.87	-45.6			
150	-51.0	3.28	149.	44.8	8.17	7.01
44.5	17.3	9.78	-40.0			
151	-50.0	3.28	150.	45.6	8.52	8.56
45.1	17.6	10.8	-35.1			
152	-49.0	3.28	151.	46.4	8.87	10.1
45.7	17.9	12.0	-31.0			
153	-48.0	3.28	152.	47.2	9.24	11.8
46.3	18.2	13.2	-27.4			
154	-47.0	3.28	153.	48.0	9.62	13.4
46.8	18.5	14.5	-24.3			
155	-46.0	3.28	154.	48.8	10.0	15.0
47.2	18.9	15.9	-21.6			
156	-45.0	3.28	155.	49.6	10.4	16.7
47.6	19.3	17.4	-19.3			
157	-44.0	3.28	156.	50.4	10.8	18.4
47.9	19.7	18.9	-17.3			
158	-43.0	3.28	157.	51.1	11.3	20.1
48.2	20.2	20.5	-15.5			
159	-42.0	3.28	158.	51.9	11.7	21.9
48.3	20.7	22.2	-13.8			
160	-41.0	3.28	159.	52.6	12.2	23.6
48.4	21.2	23.9	-12.4			
161	-40.0	3.28	160.	53.3	12.6	25.4
48.5	21.8	25.6	-11.1			
162	-39.0	3.28	161.	54.0	13.1	27.2
48.4	22.5	27.3	-9.88			
163	-38.0	3.28	162.	54.7	13.6	29.0
48.3	23.2	29.1	-8.78			
164	-37.0	3.28	163.	55.3	14.1	30.8
48.0	24.0	30.8	-7.76			
165	-36.0	3.28	164.	56.0	14.6	32.7
47.8	24.9	32.6	-6.81			
166	-35.0	3.28	165.	56.6	15.1	34.5
47.4	25.8	34.4	-5.91			
167	-34.0	3.28	166.	57.1	15.7	36.4
46.9	26.8	36.1	-5.06			
168	-33.0	3.28	167.	57.7	16.2	38.2
46.4	27.9	37.9	-4.25			
169	-32.0	3.28	168.	58.2	16.7	40.1
45.8	29.0	39.6	-3.46			
170	-31.0	3.28	169.	58.7	17.3	41.9
45.2	30.3	41.3	-2.70			
171	-30.0	3.28	170.	59.2	17.9	43.8
44.5	31.7	42.9	-1.95			
172	-29.0	3.28	171.	59.6	18.4	45.6
43.7	33.2	44.5	-1.22			

173	-28.0	3.28	172.	60.0	19.0	47.5
42.9	34.8	46.0	-0.486			
174	-27.0	3.28	173.	60.4	19.6	49.3
42.1	36.5	47.5	0.247			
175	-26.0	3.28	174.	60.7	20.2	51.1
41.2	38.4	48.9	0.984			
176	-25.0	3.28	175.	61.1	20.7	52.9
40.4	40.3	50.3	1.73			
177	-24.0	3.28	176.	61.3	21.3	54.7
39.5	42.5	51.6	2.49			
178	-23.0	3.28	177.	61.6	21.9	56.5
38.6	44.8	52.8	3.27			
179	-22.0	3.28	178.	61.8	22.5	58.3
37.7	47.2	53.9	4.06			
180	-21.0	3.28	179.	62.0	23.1	60.0
36.9	49.8	55.0	4.88			
181	-20.0	3.28	180.	62.2	23.6	61.8
36.1	52.5	56.0	5.73			
182	-19.0	3.28	181.	62.4	24.2	63.5
35.3	55.4	56.9	6.60			
183	-18.0	3.28	182.	62.5	24.8	65.1
34.6	58.4	57.7	7.51			
184	-17.0	3.28	183.	62.6	25.3	66.8
33.9	61.6	58.4	8.45			
185	-16.0	3.28	184.	62.7	25.8	68.4
33.3	64.9	59.1	9.43			
186	-15.0	3.28	185.	62.8	26.4	70.0
32.8	68.2	59.7	10.4			
187	-14.0	3.28	186.	62.8	26.9	71.5
32.3	71.7	60.2	11.5			
188	-13.0	3.28	187.	62.9	27.4	73.1
31.9	75.2	60.7	12.6			
189	-12.0	3.28	188.	62.9	27.8	74.6
31.6	78.7	61.1	13.7			
190	-11.0	3.28	189.	62.9	28.3	76.0
31.4	82.3	61.4	14.9			
191	-10.0	3.28	190.	62.9	28.7	77.4
31.1	85.8	61.7	16.1			
192	-9.00	3.28	191.	62.9	29.0	78.8
31.0	89.4	62.0	17.4			
193	-8.00	3.28	192.	62.9	29.4	80.1
30.9	92.9	62.2	18.7			
194	-7.00	3.28	193.	62.9	29.7	81.5
30.8	96.4	62.4	20.0			
195	-6.00	3.28	194.	62.9	30.0	82.7
30.8	99.9	62.5	21.4			
196	-5.00	3.28	195.	62.9	30.2	84.0
30.8	103.	62.6	22.8			
197	-4.00	3.28	196.	62.8	30.4	85.2
30.8	107.	62.7	24.2			

198	-3.00	3.28	197.	62.8	30.6	86.4
30.8	110.	62.7	25.6			
199	-2.00	3.28	198.	62.8	30.7	87.6
30.8	113.	62.8	27.1			
200	-1.00	3.28	199.	62.8	30.8	88.8
30.8	117.	62.8	28.6			
201	0.00	3.28	200.	62.8	30.8	90.0
30.8	120.	62.8	30.0			
202	1.00	3.28	201.	62.8	30.8	91.2
30.8	123.	62.8	31.5			
203	2.00	3.28	202.	62.8	30.7	92.3
30.8	127.	62.8	33.0			
204	3.00	3.28	203.	62.8	30.6	93.5
30.8	130.	62.7	34.4			
205	4.00	3.28	204.	62.9	30.4	94.7
30.8	133.	62.7	35.9			
206	5.00	3.28	205.	62.9	30.2	96.0
30.8	137.	62.6	37.3			
207	6.00	3.28	206.	62.9	30.0	97.2
30.8	140.	62.5	38.7			
208	7.00	3.28	207.	62.9	29.7	98.5
30.8	144.	62.4	40.0			
209	8.00	3.28	208.	62.9	29.4	99.8
30.9	147.	62.2	41.4			
210	9.00	3.28	209.	62.9	29.0	101.
31.0	151.	62.0	42.7			
211	10.0	3.28	210.	62.9	28.7	103.
31.1	154.	61.7	43.9			
212	11.0	3.28	211.	62.9	28.3	104.
31.4	158.	61.4	45.1			
213	12.0	3.28	212.	62.9	27.8	105.
31.6	161.	61.1	46.3			
214	13.0	3.28	213.	62.9	27.4	107.
31.9	165.	60.7	47.4			
215	14.0	3.28	214.	62.9	26.9	108.
32.3	168.	60.2	48.5			
216	15.0	3.28	215.	62.8	26.4	110.
32.8	172.	59.7	49.6			
217	16.0	3.28	216.	62.7	25.9	112.
33.3	175.	59.1	50.6			
218	17.0	3.28	217.	62.6	25.3	113.
33.9	178.	58.4	51.6			
219	18.0	3.28	218.	62.5	24.8	115.
34.6	-178.	57.7	52.5			
220	19.0	3.28	219.	62.4	24.2	117.
35.3	-175.	56.9	53.4			
221	20.0	3.28	220.	62.2	23.7	118.
36.1	-173.	56.0	54.3			
222	21.0	3.28	221.	62.1	23.1	120.
36.9	-170.	55.0	55.2			

223	22.0	3.28	222.	61.9	22.5	122.
37.7	-167.	53.9	56.0			
224	23.0	3.28	223.	61.6	21.9	123.
38.6	-165.	52.8	56.8			
225	24.0	3.28	224.	61.4	21.4	125.
39.5	-162.	51.6	57.6			
226	25.0	3.28	225.	61.1	20.8	127.
40.4	-160.	50.3	58.3			
227	26.0	3.28	226.	60.7	20.2	129.
41.2	-158.	49.0	59.1			
228	27.0	3.28	227.	60.4	19.6	131.
42.1	-156.	47.5	59.8			
229	28.0	3.28	228.	60.0	19.0	133.
42.9	-155.	46.1	60.5			
230	29.0	3.28	229.	59.6	18.5	134.
43.7	-153.	44.5	61.3			
231	30.0	3.28	230.	59.2	17.9	136.
44.5	-152.	42.9	62.0			
232	31.0	3.28	231.	58.7	17.3	138.
45.2	-150.	41.3	62.8			
233	32.0	3.28	232.	58.2	16.8	140.
45.8	-149.	39.6	63.5			
234	33.0	3.28	233.	57.7	16.2	142.
46.4	-148.	37.9	64.3			
235	34.0	3.28	234.	57.1	15.7	144.
46.9	-147.	36.2	65.1			
236	35.0	3.28	235.	56.6	15.2	145.
47.4	-146.	34.4	66.0			
237	36.0	3.28	236.	56.0	14.7	147.
47.8	-145.	32.6	66.9			
238	37.0	3.28	237.	55.3	14.1	149.
48.0	-144.	30.9	67.8			
239	38.0	3.28	238.	54.7	13.6	151.
48.3	-143.	29.1	68.9			
240	39.0	3.28	239.	54.0	13.2	153.
48.4	-142.	27.3	70.0			
241	40.0	3.28	240.	53.3	12.7	155.
48.5	-142.	25.6	71.2			
242	41.0	3.28	241.	52.6	12.2	156.
48.4	-141.	23.9	72.5			
243	42.0	3.28	242.	51.9	11.8	158.
48.3	-141.	22.2	73.9			
244	43.0	3.28	243.	51.1	11.3	160.
48.2	-140.	20.6	75.6			
245	44.0	3.28	244.	50.4	10.9	162.
47.9	-140.	19.0	77.4			
246	45.0	3.28	245.	49.6	10.5	163.
47.6	-139.	17.4	79.4			
247	46.0	3.28	246.	48.8	10.1	165.
47.2	-139.	16.0	81.8			

248	47.0	3.28	247.	48.0	9.67	167.
46.8	-138.	14.6	84.4			
249	48.0	3.28	248.	47.2	9.29	168.
46.3	-138.	13.2	87.5			
250	49.0	3.28	249.	46.4	8.92	170.
45.7	-138.	12.0	91.1			
251	50.0	3.28	250.	45.6	8.57	171.
45.1	-138.	10.9	95.2			
252	51.0	3.28	251.	44.8	8.22	173.
44.5	-137.	9.83	100.			
253	52.0	3.28	252.	44.0	7.89	175.
43.8	-137.	8.92	106.			
254	53.0	3.28	253.	43.2	7.57	176.
43.1	-137.	8.13	112.			
255	54.0	3.28	254.	42.4	7.27	177.
42.4	-137.	7.50	119.			
256	55.0	3.28	255.	41.6	6.97	179.
41.6	-137.	7.01	127.			
257	56.0	3.28	256.	40.9	6.69	0.348
40.8	-136.	6.69	136.			
258	57.0	3.28	257.	40.1	6.42	1.74
40.0	-136.	6.53	144.			
259	58.0	3.28	258.	39.3	6.15	3.10
39.2	-136.	6.50	152.			
260	59.0	3.28	259.	38.5	5.90	4.44
38.4	-136.	6.60	160.			
261	60.0	3.28	260.	37.8	5.66	5.75
37.6	-136.	6.78	167.			
262	61.0	3.28	261.	37.0	5.43	7.03
36.7	-136.	7.04	173.			
263	62.0	3.28	262.	36.3	5.21	8.28
35.9	-136.	7.34	178.			
264	63.0	3.28	263.	35.6	5.00	9.51
35.1	-136.	7.67	-177.			
265	64.0	3.28	264.	34.8	4.79	10.7
34.2	-136.	8.00	-173.			
266	65.0	3.28	265.	34.1	4.60	11.9
33.4	-136.	8.34	-170.			
267	66.0	3.28	266.	33.4	4.41	13.0
32.6	-136.	8.68	-167.			
268	67.0	3.28	267.	32.8	4.23	14.1
31.8	-136.	9.00	-165.			
269	68.0	3.28	268.	32.1	4.06	15.2
31.0	-136.	9.31	-162.			
270	69.0	3.28	269.	31.4	3.90	16.3
30.2	-136.	9.60	-161.			
271	70.0	3.28	270.	30.8	3.74	17.4
29.4	-136.	9.86	-159.			
272	71.0	3.28	271.	30.2	3.59	18.4
28.7	-136.	10.1	-158.			

273	72.0	3.28	272.	29.6	3.45	19.4
27.9	-136.	10.3	-156.			
274	73.0	3.28	273.	29.0	3.31	20.4
27.2	-136.	10.6	-155.			
275	74.0	3.28	274.	28.4	3.18	21.3
26.5	-136.	10.7	-154.			
276	75.0	3.28	275.	27.8	3.06	22.3
25.8	-136.	10.9	-153.			
277	76.0	3.28	276.	27.2	2.94	23.2
25.1	-136.	11.1	-152.			
278	77.0	3.28	277.	26.7	2.82	24.1
24.4	-136.	11.2	-152.			
279	78.0	3.28	278.	26.2	2.71	24.9
23.8	-136.	11.3	-151.			
280	79.0	3.28	279.	25.6	2.61	25.8
23.1	-136.	11.4	-150.			
281	80.0	3.28	280.	25.1	2.51	26.6
22.5	-136.	11.5	-150.			
282	81.0	3.28	281.	24.6	2.41	27.4
21.9	-136.	11.5	-149.			
283	82.0	3.28	282.	24.1	2.32	28.2
21.3	-136.	11.6	-149.			
284	83.0	3.28	283.	23.7	2.23	29.0
20.7	-136.	11.6	-149.			
285	84.0	3.28	284.	23.2	2.15	29.8
20.2	-136.	11.7	-148.			
286	85.0	3.28	285.	22.8	2.07	30.5
19.6	-136.	11.7	-148.			
287	86.0	3.28	286.	22.3	1.99	31.2
19.1	-136.	11.7	-148.			
288	87.0	3.28	287.	21.9	1.92	31.9
18.6	-136.	11.7	-147.			
289	88.0	3.28	288.	21.5	1.85	32.6
18.1	-136.	11.7	-147.			
290	89.0	3.28	289.	21.1	1.78	33.3
17.6	-136.	11.7	-147.			
291	90.0	3.28	290.	20.7	1.72	34.0
17.2	-136.	11.6	-146.			
292	91.0	3.28	291.	20.3	1.66	34.6
16.7	-136.	11.6	-146.			
293	92.0	3.28	292.	19.9	1.60	35.3
16.3	-136.	11.6	-146.			
294	93.0	3.28	293.	19.5	1.54	35.9
15.8	-136.	11.5	-146.			
295	94.0	3.28	294.	19.2	1.49	36.5
15.4	-136.	11.5	-146.			
296	95.0	3.28	295.	18.8	1.44	37.1
15.0	-137.	11.4	-146.			
297	96.0	3.28	296.	18.5	1.39	37.7
14.6	-137.	11.3	-145.			

298	97.0	3.28	297.	18.1	1.34	38.3
14.2	-137.	11.3	-145.			
299	98.0	3.28	298.	17.8	1.29	38.8
13.9	-137.	11.2	-145.			
300	99.0	3.28	299.	17.5	1.25	39.4
13.5	-137.	11.1	-145.			
301	100.	3.28	300.	17.2	1.21	39.9
13.2	-137.	11.1	-145.			
302	101.	3.28	301.	16.9	1.17	40.5
12.8	-137.	11.0	-145.			
303	102.	3.28	302.	16.6	1.13	41.0
12.5	-137.	10.9	-145.			
304	103.	3.28	303.	16.3	1.09	41.5
12.2	-137.	10.8	-145.			
305	104.	3.28	304.	16.0	1.06	42.0
11.9	-137.	10.7	-145.			
306	105.	3.28	305.	15.7	1.02	42.5
11.6	-137.	10.6	-145.			
307	106.	3.28	306.	15.4	0.989	42.9
11.3	-137.	10.5	-145.			
308	107.	3.28	307.	15.2	0.957	43.4
11.0	-137.	10.5	-144.			
309	108.	3.28	308.	14.9	0.926	43.9
10.8	-137.	10.4	-144.			
310	109.	3.28	309.	14.7	0.897	44.3
10.5	-137.	10.3	-144.			
311	110.	3.28	310.	14.4	0.869	44.8
10.3	-137.	10.2	-144.			
312	111.	3.28	311.	14.2	0.842	45.2
10.0	-138.	10.1	-144.			
313	112.	3.28	312.	13.9	0.816	45.6
9.77	-138.	9.99	-144.			
314	113.	3.28	313.	13.7	0.791	46.0
9.54	-138.	9.89	-144.			
315	114.	3.28	314.	13.5	0.767	46.5
9.31	-138.	9.80	-144.			
316	115.	3.28	315.	13.3	0.743	46.9
9.10	-138.	9.70	-144.			
317	116.	3.28	316.	13.1	0.721	47.3
8.88	-138.	9.61	-144.			
318	117.	3.28	317.	12.9	0.700	47.6
8.68	-138.	9.51	-144.			
319	118.	3.28	318.	12.7	0.679	48.0
8.48	-138.	9.42	-144.			
320	119.	3.28	319.	12.5	0.659	48.4
8.28	-138.	9.33	-144.			
321	120.	3.28	320.	12.3	0.640	48.8
8.09	-138.	9.23	-144.			
322	121.	3.28	321.	12.1	0.621	49.1
7.91	-138.	9.14	-144.			

323	122.	3.28	322.	11.9	0.603	49.5
7.73	-138.	9.04	-144.			
324	123.	3.28	323.	11.7	0.586	49.8
7.56	-138.	8.95	-144.			
325	124.	3.28	324.	11.5	0.569	50.2
7.39	-138.	8.86	-144.			
326	125.	3.28	325.	11.3	0.553	50.5
7.23	-138.	8.77	-144.			
327	126.	3.28	326.	11.2	0.538	50.9
7.07	-138.	8.68	-144.			
328	127.	3.28	327.	11.0	0.523	51.2
6.91	-139.	8.59	-144.			
329	128.	3.28	328.	10.8	0.508	51.5
6.76	-139.	8.50	-144.			
330	129.	3.28	329.	10.7	0.494	51.8
6.62	-139.	8.41	-144.			
331	130.	3.28	330.	10.5	0.481	52.1
6.48	-139.	8.32	-144.			
332	131.	3.28	331.	10.4	0.468	52.4
6.34	-139.	8.23	-144.			
333	132.	3.28	332.	10.2	0.455	52.8
6.20	-139.	8.15	-144.			
334	133.	3.28	333.	10.1	0.443	53.0
6.07	-139.	8.06	-144.			
335	134.	3.28	334.	9.94	0.431	53.3
5.94	-139.	7.98	-144.			
336	135.	3.28	335.	9.80	0.420	53.6
5.82	-139.	7.89	-144.			
337	136.	3.28	336.	9.66	0.409	53.9
5.70	-139.	7.81	-144.			
338	137.	3.28	337.	9.53	0.398	54.2
5.58	-139.	7.73	-144.			
339	138.	3.28	338.	9.39	0.388	54.5
5.47	-139.	7.65	-144.			
340	139.	3.28	339.	9.26	0.378	54.7
5.36	-139.	7.57	-144.			
341	140.	3.28	340.	9.14	0.369	55.0
5.25	-139.	7.49	-144.			
342	141.	3.28	341.	9.01	0.359	55.3
5.14	-139.	7.41	-144.			
343	142.	3.28	342.	8.89	0.350	55.5
5.04	-139.	7.33	-144.			
344	143.	3.28	343.	8.77	0.342	55.8
4.94	-139.	7.25	-144.			
345	144.	3.28	344.	8.65	0.333	56.0
4.84	-139.	7.18	-144.			
346	145.	3.28	345.	8.54	0.325	56.3
4.75	-140.	7.10	-144.			
347	146.	3.28	346.	8.42	0.317	56.5
4.65	-140.	7.03	-144.			

348	147.	3.28	347.	8.31	0.309	56.8
4.56	-140.	6.96	-144.			
349	148.	3.28	348.	8.20	0.302	57.0
4.48	-140.	6.88	-144.			
350	149.	3.28	349.	8.10	0.295	57.2
4.39	-140.	6.81	-144.			
351	150.	3.28	350.	7.99	0.288	57.5
4.31	-140.	6.74	-144.			
352	151.	3.28	351.	7.89	0.281	57.7
4.22	-140.	6.67	-144.			
353	152.	3.28	352.	7.79	0.274	57.9
4.14	-140.	6.60	-144.			
354	153.	3.28	353.	7.69	0.268	58.1
4.07	-140.	6.53	-144.			
355	154.	3.28	354.	7.59	0.262	58.4
3.99	-140.	6.47	-144.			
356	155.	3.28	355.	7.50	0.256	58.6
3.92	-140.	6.40	-144.			
357	156.	3.28	356.	7.41	0.250	58.8
3.84	-140.	6.33	-144.			
358	157.	3.28	357.	7.31	0.244	59.0
3.77	-140.	6.27	-144.			
359	158.	3.28	358.	7.22	0.239	59.2
3.71	-140.	6.21	-144.			
360	159.	3.28	359.	7.14	0.234	59.4
3.64	-140.	6.14	-144.			
361	160.	3.28	360.	7.05	0.228	59.6
3.57	-140.	6.08	-144.			
362	161.	3.28	361.	6.96	0.223	59.8
3.51	-140.	6.02	-145.			
363	162.	3.28	362.	6.88	0.218	60.0
3.45	-140.	5.96	-145.			
364	163.	3.28	363.	6.80	0.214	60.2
3.38	-140.	5.90	-145.			
365	164.	3.28	364.	6.72	0.209	60.4
3.33	-140.	5.84	-145.			
366	165.	3.28	365.	6.64	0.205	60.6
3.27	-140.	5.78	-145.			
367	166.	3.28	366.	6.56	0.200	60.8
3.21	-141.	5.72	-145.			
368	167.	3.28	367.	6.48	0.196	60.9
3.15	-141.	5.67	-145.			
369	168.	3.28	368.	6.41	0.192	61.1
3.10	-141.	5.61	-145.			
370	169.	3.28	369.	6.33	0.188	61.3
3.05	-141.	5.56	-145.			
371	170.	3.28	370.	6.26	0.184	61.5
2.99	-141.	5.50	-145.			
372	171.	3.28	371.	6.19	0.180	61.6
2.94	-141.	5.45	-145.			

373	172.	3.28	372.	6.12	0.177	61.8
2.89	-141.	5.39	-145.			
374	173.	3.28	373.	6.05	0.173	62.0
2.85	-141.	5.34	-145.			
375	174.	3.28	374.	5.98	0.169	62.2
2.80	-141.	5.29	-145.			
376	175.	3.28	375.	5.91	0.166	62.3
2.75	-141.	5.24	-145.			
377	176.	3.28	376.	5.85	0.163	62.5
2.71	-141.	5.19	-145.			
378	177.	3.28	377.	5.78	0.160	62.7
2.66	-141.	5.14	-145.			
379	178.	3.28	378.	5.72	0.156	62.8
2.62	-141.	5.09	-145.			
380	179.	3.28	379.	5.66	0.153	63.0
2.57	-141.	5.04	-145.			
381	180.	3.28	380.	5.60	0.150	63.1
2.53	-141.	4.99	-145.			
382	181.	3.28	381.	5.53	0.147	63.3
2.49	-141.	4.94	-145.			
383	182.	3.28	382.	5.48	0.145	63.4
2.45	-141.	4.90	-145.			
384	183.	3.28	383.	5.42	0.142	63.6
2.41	-141.	4.85	-145.			
385	184.	3.28	384.	5.36	0.139	63.7
2.37	-141.	4.81	-145.			
386	185.	3.28	385.	5.30	0.137	63.9
2.34	-141.	4.76	-145.			
387	186.	3.28	386.	5.25	0.134	64.0
2.30	-141.	4.72	-145.			
388	187.	3.28	387.	5.19	0.132	64.2
2.26	-141.	4.67	-145.			
389	188.	3.28	388.	5.14	0.129	64.3
2.23	-141.	4.63	-145.			
390	189.	3.28	389.	5.08	0.127	64.5
2.19	-141.	4.59	-145.			
391	190.	3.28	390.	5.03	0.125	64.6
2.16	-141.	4.54	-145.			
392	191.	3.28	391.	4.98	0.122	64.7
2.13	-141.	4.50	-145.			
393	192.	3.28	392.	4.93	0.120	64.9
2.09	-142.	4.46	-145.			
394	193.	3.28	393.	4.88	0.118	65.0
2.06	-142.	4.42	-145.			
395	194.	3.28	394.	4.83	0.116	65.1
2.03	-142.	4.38	-145.			
396	195.	3.28	395.	4.78	0.114	65.3
2.00	-142.	4.34	-145.			
397	196.	3.28	396.	4.73	0.112	65.4
1.97	-142.	4.30	-145.			

398	197.	3.28	397.	4.68	0.110	65.5
1.94	-142.	4.26	-145.			
399	198.	3.28	398.	4.64	0.108	65.7
1.91	-142.	4.23	-145.			
400	199.	3.28	399.	4.59	0.106	65.8
1.88	-142.	4.19	-145.			
401	200.	3.28	400.	4.55	0.104	65.9
1.86	-142.	4.15	-145.			

SES-ENVIRO package - PAGE 150

RUN:

SES-ENVIRO package - PAGE 151

RUN:

END OF MODULE SES-ENVIRO

1

END OF PROGRAM TRALIN

DATE OF RUN (End)= DAY 20 / Month 6 / Year 2022
 COMPLETION TIME= 16:29:38:72

TOTAL RUN TIME = 17.40 Seconds