Exhibit AA Electric and Magnetic Fields

Boardman to Hemingway Transmission Line Project



Mark Stokes, Project Leader (208) 388-2483 <u>mstokes@idahopower.com</u> Zach Funkhouser, Permitting (208) 388-5375 <u>zfunkhouser@idahopower.com</u>

Amended Preliminary Application for Site Certificate

June 2017

TABLE OF CONTENTS

1.0		ODUCTION	
2.0	APP	LICABLE RULES AND AMENDED PROJECT ORDER PROVISIONS	AA-1
	2.1	Specific Standards for Transmission Lines	AA-1
	2.2	Site Certificate Application Requirements	AA-1
	2.3	Amended Project Order Provisions	AA-2
3.0	ANA	LYSIS	
	3.1	Analysis Area	AA-2
	3.2	Background	AA-2
		3.2.1 EMF Description	AA-2
		3.2.2 EMF Standards	AA-3
	3.3	Distance Between Transmission Line Center Lines and Right-of-Way Edg	ge AA-5
	3.4	Occupied Structures Within 200 Feet of Transmission Lines	
		3.4.1 Methods for Identifying Occupied Structures Within 200 Feet	AA-5
		3.4.2 Occupied Structures Identified Within 200 Feet	AA-5
	3.5	Predicted Electric and Magnetic Fields Levels	AA-7
		3.5.1 EMF Modeling Methods	AA-7
		3.5.2 Modeling Assumptions	AA-7
		3.5.3 Interaction with Existing Transmission Lines	AA-9
	3.6	Graphs of Predicted Electric and Magnetic Fields Levels	
	3.7	Measures to Reduce Electric and Magnetic Field Levels	
	3.8	Monitoring	AA-24
	3.9	Radio Interference	AA-24
		3.9.1 Background	AA-24
		3.9.2 Evaluation of Alternate Methods and Costs to Reduce	A A . 20
	2 10	Interference Long-Term Electric and Magnetic Fields Health Effects	
	5.10	3.10.1 Studies on Electric and Magnetic Fields	
		3.10.2 Oregon Energy Facility Siting Council Report	
		3.10.3 Bonneville Power Administration Report	
		3.10.4 Other Health Effects	
4.0		IO POWER'S PROPOSED SITE CERTIFICATE CONDITIONS	AA-32
4.0 5.0		CLUSION	
5.0 6.0		IPLIANCE CROSS-REFERENCES	
6.0 7.0		PONSE TO PUBLIC COMMENTS	
7.0 8.0			
0.0	REF	ERENCES	AA-30

LIST OF TABLES

Table AA-1. International Guidelines for Alternating Current Power-frequency EMF	LevelsAA-4
Table AA-2. Other State Alternating Current Power-frequency EMF Standards	AA-4
Table AA-3. Existing Adjacent Lines for the Proposed Route	AA-9
Table AA-4. Electric Field Strength for Each Considered Structural Configuration	AA-22
Table AA-5. Magnetic Field Strength for Each Considered Structural Configuration.	AA-22
Table AA-6. Compliance Requirements and Relevant Cross-References	AA-34
Table AA-7. Public Comments	AA-36

LIST OF FIGURES

Figure AA-1. Electric Field Profile for Single-Circuit 500-kV Lattice Structures and Delta Conductor Configuration
Figure AA-2. Magnetic Field Profile for Single-Circuit 500-kV Lattice Structures and Delta
Conductor Configuration
Figure AA-3. Electric Field Profile for Single-Circuit 500-kV H- or Y-Frame Structures and Horizontal Conductor Configuration
Figure AA-4. Magnetic Field Profile for Single-Circuit 500-kV H- or Y-Frame Structures and
Horizontal Conductor ConfigurationAA-15
Figure AA-5. Electric Field Profile for Single-Circuit 230-kV H-Frame Structures and
Horizontal Conductor ConfigurationAA-16
Figure AA-6. Magnetic Field Profile for Single-Circuit 230-kV H-Frame Structures and
Horizontal Conductor Configuration
Figure AA-7. Electric Field Profile for Single-Circuit 138-kV H-Frame Structures and
Horizontal Conductor Configuration
Figure AA-8. Magnetic Field Profile for Single-Circuit 138-kV H-Frame Structures and Horizontal Conductor Configuration
Figure AA-9. Electric Field Profile for Single-Circuit 500-kV Lattice Structures and Existing
Parallel Transmission Lines
Figure AA-10. Magnetic Field Profile for Single-Circuit 500-kV Lattice Structures and
Existing Parallel Transmission Lines AA-21
Figure AA-11. Communications Frequency SpectrumAA-25

LIST OF ATTACHMENTS

Attachment AA-1. EMF ENVIRO Modeling Results

ACRONYMS AND ABBREVIATIONS

A/phase AC Amended Project Order	amps per phase alternating current First Amended Project Order, Regarding Statutes, Administrative Rules and Other Requirements Applicable to the Proposed Boardman to Hemingway Transmission Line (December 22, 2014)
Order BPA dB EFSC or Council ELF EMF EMR EPRI FCC GHz GPS Hz IARC ICES ICNIRP IEEE IPC kHz kV kV/m m µV/m mG MHz MP NESC NIEHS NRC	Rules and Other Requirements Applicable to the Proposed Boardman to Hemingway Transmission Line (December 22, 2014) Bonneville Power Administration decibels Energy Facility Siting Council extremely low frequency electric and magnetic fields electromagnetic radiation Electric Power Research Institute Federal Communications Commission gigahertz Global Positioning System hertz International Agency for Research on Cancer International Committee on Electromagnetic Safety International Commission on Non-Ionizing Radiation Protection Institute of Electrical and Electronics Engineers Idaho Power Company kilohertz kilovolt kilovolt per meter meter microvolt per meter miligauss megahertz milepost National Electrical Safety Code National Institute of Environmental Health Sciences National Research Council
NRPB OAR Project ROW	National Research Council National Radiological Protection Board of Great Britain Oregon Administrative Rules Boardman to Hemingway Transmission Line Project right-of-way

1 Exhibit AA

2 Electric and Magnetic Fields

3 **1.0 INTRODUCTION**

- 4 Exhibit AA provides an analysis of electric and magnetic fields (EMF) for the Boardman to
- 5 Hemingway Transmission Line Project (Project). This Exhibit shows the Project will be
- 6 designed, constructed, and operated to ensure public health and safety with EMFs in mind.

7 2.0 APPLICABLE RULES AND AMENDED PROJECT ORDER 8 PROVISIONS

9 2.1 Specific Standards for Transmission Lines

- The Specific Standards for Transmission Lines under Oregon Administrative Rule (OAR) 345 024-0090 provide Idaho Power Company (IPC) must demonstrate it:
- (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;
- (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.

18 2.2 Site Certificate Application Requirements

- OAR 345-021-0010(1)(aa) provides Exhibit AA must include the following information related to
 the Project transmission lines:
- 21 (A) Information about the expected electric and magnetic fields, including:
- (i) The distance in feet from the proposed center line of each proposed
 transmission line to the edge of the right-of-way.
- (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).
- (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.
- 33 (v) Any measures the applicant proposes to reduce electric or magnetic field
 34 levels.
- 35(vi) The assumptions and methods used in the electric and magnetic field36analysis, including the current in amperes on each proposed transmission line.

1(vii) The applicant's proposed monitoring program, if any, for actual electric and2magnetic field levels.

(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.

6 2.3 Amended Project Order Provisions

7 The Amended Project Order provides the following discussion regarding Exhibit AA:

8 The application should address public concerns expressed during the scoping period 9 about electric and magnetic fields (EMF) generated by the proposed transmission 10 facility. Although the Council does not have an "EMF Standard," it does have a statutory 11 mandate to adopt any conditions needed to ensure public health and safety. This 12 mandate provides the regulatory basis for any findings or conditions, including setbacks, 13 based on EMF considerations.

14 (Amended Project Order, Section III(aa)).

15 3.0 ANALYSIS

16 3.1 Analysis Area

17 The Amended Project Order states the analysis area for Exhibit AA is the Site Boundary. For 18 purposes of analyzing the Project's EMFs—specifically the alternating current (AC) electric fields and induced currents—IPC focused its analysis on the right-of-way (ROW) for the 19 Proposed Route and alternative routes. The ROW extends outward from the centerline 20 21 sufficiently far to identify and analyze impacts to structures that may be located within 200 feet 22 on each side of the centerline of the final transmission line alignment. As discussed herein, the analysis shows that the Project's AC electric fields and induced currents will meet the relevant 23 AC electric field standard within the ROW. Moreover, the effects of AC electric fields and 24 25 induced currents diminish with distance, meaning the Project will also meet the AC electric field standard beyond the ROW, including throughout the entire Site Boundary, which may exceed 26 27 the ROW.

28 3.2 Background

29 3.2.1 EMF Description

EMFs occur both naturally and as a result of the generation, transmission, and use of electric
power. The earth itself generates steady-state magnetic and electric fields. Electromagnetic
fields are present around any conductors or devices that transmit or use electrical energy; as a
result, exposure to EMF is common from an array of electrical appliances and equipment,
building wiring, and electric distribution and transmission lines. The electrical power system in
the United States is an AC system operating at a frequency of 60 hertz (Hz)¹, resulting in "power

36 frequency" or "extremely low frequency (ELF)" EMF.² While electric and magnetic fields are

¹ Hertz is a measure of cycles per second. In a 60-Hz transmission system, the charge and direction of current flow on each conductor will cycle from positive to negative and back to positive 60 times per second. The direction of force in the electric and magnetic fields will also cycle in direct relation to the charge and direction of flow on the conductor.

² The electric transmission system in the U.S. operates at 60 Hz, while in Europe and other parts of the world, the systems operate at 50 Hz; both produce fields that are referred to as power frequency or ELF EMF.

often referred to and thought of collectively, each arises through a different mechanism and can
 have differing effects.

3 Electric fields around transmission lines are produced by the presence of an electric charge, measured as voltage, on the energized conductor. Electric field strength is directly proportional 4 5 to the line's voltage; that is, increased voltage produces a stronger electric field. The strength of 6 the electric field is inversely proportional to the distance from the conductors; the electric field 7 strength declines as the distance from the conductor increases. The strength of the electric field 8 is measured in units of kilovolts (kV) per meter (m) or kV/m. Electric fields are readily weakened or blocked by conductive objects such as trees or buildings. The direction of force within the 9 10 electric field alternates at a frequency of 60 Hz, in direct relation to the charge on each conductor. However, the overall transmission line voltage, and therefore the overall strength and 11 12 reach of the electric field, remains practically steady and is not affected by the common daily 13 and seasonal fluctuations in usage of electricity by customers. 14 Magnetic fields around transmission lines are produced by the movement of electrical charge,

15 measured in terms of amperage, through the conductors. Like the electric field, the magnetic

16 field alternates at a frequency of 60 Hz. Magnetic field strength is expressed in units of

17 milligauss (mG).³ The magnetic field strength is directly proportional to the amperage; that is,

18 increased current flow produces a stronger magnetic field. As with electric fields, the magnetic

19 field is inversely proportional to the distance from the conductors, declining in strength as the

20 distance from the conductor increases. Magnetic fields are not blocked or shielded by most

21 materials. Unlike voltage, the amperage and the resulting magnetic field around a transmission

line fluctuate daily and seasonally as the usage of electricity varies and the amount of currentflow varies.

Each AC three-phase circuit carries power over three conductors. One phase of the circuit is

25 carried by each of the three conductors. The AC voltage and current in each phase conductor is

- 26 out of sync with the other two phases by 120 degrees, or one-third of the 360 degree cycle. The
- 27 fields from these conductors tend to cancel out because of this phase difference. However,

28 when a person stands under a transmission line, one conductor is significantly closer and will

29 contribute a net uncanceled field at the person's location.

30 3.2.2 EMF Standards

31 No federal regulations or guidelines apply directly to the EMF levels for the Project's proposed

32 lines in Oregon. The National Institute of Environmental Health Sciences (NIEHS) performed an

extensive review of field-related issues in the 1990s that resulted in the decision that regulatory

34 actions are unwarranted (NIEHS 1999).

35 Although there are no federal regulations on power-frequency EMF in the United States,

36 international recommendations and guidelines exist. Table AA-1 lists power-frequency EMF

37 guidelines recommended by the European Union (EU 1999), the International Committee on

38 Electromagnetic Safety (ICES), and the International Commission on Non-Ionizing Radiation

- 39 Protection (ICNIRP), which is an affiliate of the World Health Organization (ICES 2002; ICNIRP
- 40 2010).

³ Magnetic field strength may also be measured in terms of the Tesla, an International System unit of measurement.

¹ Gauss = .0001 Tesla, or 1 Tesla = 10,000 Gauss; 1 Gauss = 1,000 mG.

1 Table AA-1. International Guidelines for Alternating Current Power-frequency EMF

2 Levels

Agency	Exposure	Electric Field (kV/m)	Magnetic Field (mG)
European Union	General public	4.2	833
ICES ¹	Occupational	20	27,100
	General public	5	9,040
	General public within ROW	10	NA
ICNIRP	Occupational	8.3	10,000
	General public	4.2	2,000

¹ ICES recommendations have been adopted as standards by the Institute of Electrical and Electronics Engineers (IEEE); see Standard C95.6 -2002 (R2007).

Magnetic fields are measured in gauss (G) and milligauss. 1 G = 1,000 mG NA = Not Applicable (no requirements)

NA = Not Applicable (no requirements)

3 Transmission line projects in Oregon must comply with the electric field standard found in

4 OAR 345-024-0090, which requires that the applicant design, construct, and operate the

5 proposed transmission line so that AC electric fields do not exceed 9 kV/m at 1 meter above the

6 ground surface in areas accessible to the public. There is no similar Oregon design standard for

7 magnetic fields.

8 Six other states have adopted limits for electric field strength either at the edge or within the

9 ROW of the transmission line corridor. Only Florida and New York currently limit magnetic fields

10 levels from transmission lines. The magnetic field levels set in those two states only apply at the

11 edge of the ROW and were developed to prevent magnetic fields from increasing beyond levels

12 currently experienced by the public. Table AA-2 shows the AC electric field and magnetic field

13 standards that have been adopted by states in the U.S.

14 Table AA-2. Other State Alternating Current Power-frequency EMF Standards

State	Location	Electric Field (kV/m)	Magnetic Field (mG)
Florida			
230- to 500-kV	Within ROW	10	NA
lines	Edge of ROW	2	200 ¹
230 kV or less	Within ROW	8	NA
	Edge of ROW	2	150
Minnesota	Within ROW	8	NA
Montana	Within ROW-road crossing	7	NA
	Edge of ROW	1 ²	NA
New Jersey	Within ROW	NA	NA
-	Edge of ROW	3	NA
New York	Within ROW-open	11.8	NA
	Within ROW-public road	7	NA
	Within ROW-private road	11	NA
	Edge of ROW	1.6	200
North Dakota	Within ROW	9	NA
	Edge of ROW	NA	NA

State	Location	Electric Field (kV/m)	Magnetic Field (mG)
Oregon	Within ROW	9	NA
-	Edge of ROW	NA	NA

¹Magnetic field strength is limited to 250 mG for new double-circuit 500-kV lines constructed on a previously existing right-of-way.

² Can be waived by landowner.

NA = Not Applicable (no requirements)

In the fall of 2009, the Energy Facility Siting Council (EFSC or Council) commissioned a review of existing information to prepare for the review of several transmission lines under discussion at that time. That review was conducted by Dr. Kara Warner and presented to the Council on November 20, 2009, during a regular Council meeting. The prevailing conclusions were that there is a need to continue to monitor the science on EMF; that low-cost, prudent avoidance measures of public EMF exposure are appropriate; and that health-based limits are not appropriate given the scientific data available (EESC 2009).

7 appropriate given the scientific data available (EFSC 2009).

8 3.3 Distance Between Transmission Line Center Lines and Right-of-Way 9 Edge

OAR 345-021-0010(1)(aa)(A)(i): The distance in feet from the proposed center line of each proposed transmission line to the edge of the right-of-way.

12 The transmission line will be located approximately in the middle of the ROW. The ROW width

13 will typically be 150 feet, but in a few areas for very short distances may extend to 250 feet;

14 accordingly, the distance from the center line to the ROW edge will be 75 to 125 feet. While 15 crossing the Naval Weapons System Training Facility Boardman, the ROW will be 90 feet. The

16 ROW width for the single-circuit 230-kV rebuilding portion of the Project will be up to 125 feet.

17 The ROW width for the 1.1 miles of 138-kV rebuilding will be 100 feet. The required ROW width

18 will be determined during final design.

3.4 Occupied Structures Within 200 Feet of Transmission Lines

OAR 345-021-0010(1)(aa)(A): . . . (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). . . .

3.4.1 Methods for Identifying Occupied Structures Within 200 Feet

Geographic information system and aerial photographs were used to identify and classify potential structures near the transmission line and rebuild segments that could be affected by Project EMF. A field reconnaissance was then undertaken to determine occupancy. Occupied structures included in this analysis are defined by OAR 345-021-0010 as including but not limited to residences, commercial establishments, industrial facilities, schools, daycare centers, hospitals, and rest areas. Receptors that were not included as occupied structures consisted of silos, tanks, gravel pits, mines, quarries, and water features.

33 **3.4.2 Occupied Structures Identified Within 200 Feet**

Based on review of aerial photography from 2012-2016, IPC identified six possible structures within
 200 feet of the transmission line. IPC investigated the nature of those structures further, finding that

- 1 the structures no longer exist, were transient vehicles and not structures, or should not be
- 2 considered occupied because they are not permanently or frequently visited. Therefore, there are
- 3 no occupied structures within 200 feet of the transmission line.
- 4 IPC's findings with respect to each of the six identified possible structures are as follows:
- Structure 1 (near milepost [MP] 81.5): In two of three years of aerial photography, a trailer or other object appears to have been parked within 200 feet of the centerline. This appears to be a campsite with a temporary, unfixed recreational vehicle on it. The term "structure" generally means a building or other fixture that is permanently fixed to the ground. Because the recreational vehicle does not appear to be fixed permanently to the ground, it is not considered a structure, or occupied structure, under OAR 345-021-0010(1)(aa)(A)(ii).
- Structure 2 (near MP 84.6): There was a possible structure apparent in 2012 photography. However, it does not seem to be present in the more recent aerial photographs (2013/2014). Further, it appears to be a vehicle and not a permanent fixture. For these reasons, it is not considered a structure, or occupied structure, under OAR 345-021-0010(1)(aa)(A)(ii).
- 17 Structure 3 (near MP 1.8): There is a pumphouse on the east side of Bombing Range 18 Road that is located approximately 180 feet from the transmission line centerline. Pumphouse operators visit the pumphouse when necessary for maintenance and control 19 20 of the pumps, but there is no regular presence at the pumphouse. The term "occupied structure" is not defined in Chapter 345 of the OAR. Under the canon of ejusdem 21 22 generis, the regulation is to be construed to include persons and things not specifically 23 mentioned only if they are of the same general kind or class specifically mentioned.⁴ Here, OAR 345-021-0010(1)(aa)(A)(ii) defines "occupied structures" as including but not 24 25 limited to "residences, commercial establishments, industrial facilities, schools, daycare centers and hospitals." The common characteristic among the enumerated items is that 26 27 each facility has people on-site continuously or at least daily or during regular work days 28 and hours. In this instance, workers are not present at the pumphouse continuously, daily, or on a regular schedule during normal working days and hours, but rather, they 29 30 are at the pumphouse only sporadically and temporarily. Such use is not of the same 31 general kind or class as that found with the facilities specifically mentioned in the 32 regulation. Therefore, applying the principle of ejusdem generis to OAR 345-021-33 0010(1)(aa)(A)(ii), the pumphouse is not considered an "occupied structure."
- Structure 4 (near MP 6.1): An object appeared in the 2016 aerial photography on the west side of Bombing Range Road that appeared to possibly be a structure. However, on-the-ground review confirmed there are no structures on the west side of the road near MP 6.1, which is Navy property, where the object was seen in the aerial photograph. It likely was a vehicle working on the Bonneville Power Administration (BPA) transmission line. For these reasons, it is not considered a structure, or occupied structure, under OAR 345-021-0010(1)(aa)(A)(ii).
- Structure 5 (near MP 9.5): There is a potato storage shed on the east side of Bombing
 Range Road. The shed has activity during the fall when it is being filled with potatoes,
 the occasional employee visits the shed to monitor temperature and quality of inventory,
 and there's some activity when they are emptying the shed. There is no permanent or
 regular presence at the shed. Therefore, its use is not of the same general kind or class

⁴ See Liberty v. State Dept. of Transportation, 342 Or. 11, 20, 148 P.3d 909 (2006) (applying principle of ejusdem generis when interpreting the phrase "outdoor activities such as hunting, fishing, [and other specified activities]").

as that found with the facilities specifically mentioned in OAR 345-021-0010(1)(aa)(A)(ii)
 and the potato shed is not considered an "occupied structure" under that regulation.

- Structure 6 (near MP 11): Two possible structures were identified in the aerial photography on the east side of Bombing Range Road near MP 11. One of the structures is a TransCanada metering station used to meter natural gas usage. There is no frequent or permanent visits to the station, and therefore, it is not considered an "occupied structure" under OAR 345-021-0010(1)(aa)(A)(ii). The second structure— while identified in earlier photography—is no longer present as of December 2016, and accordingly, it is not a structure to be analyzed under OAR 345-021-0010(1)(aa)(A)(ii).
- To address potential concerns regarding electrical fields in proximity to occupied structures, IPC
 proposes the following site certificate condition:
- Siting Standard Condition 1: During construction, the site certificate holder
 shall take the following steps to reduce or manage human exposure to
 electromagnetic fields:
- a. Constructing all aboveground transmission lines at least 200 feet from any
 residence or other occupied structure, measured from the centerline of the
- 17 transmission line;
- 18 ..

19 **3.5** Predicted Electric and Magnetic Fields Levels

OAR 345-021-0010(1)(aa)(A): . . . (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. . . . (vi) The assumptions and methods used in the electric and magnetic field analysis, including the current in amperes on each proposed transmission line. . . .

25 **3.5.1 EMF Modeling Methods**

The electric field, magnetic field, and audible noise that may be produced by the proposed transmission line was predicted using EMFWorkstation: ENVIRO (Version 3.52), a Windowsbased model developed by the Electric Power Research Institute (EPRI) (EPRI 1997). The ENVIRO program uses the algorithms developed by BPA, which were originally described in the Corona and Field Effects program from BPA (BPA n.d.). The inputs to the ENVIRO model are line voltage, load flow (current), and the physical dimensions of the line (number of phases, conductor diameter, spacing, height, and subconductor configuration).

33 **3.5.2 Modeling Assumptions**

The EMF values were calculated at a reference height of 1 meter above ground. For modeling
purposes, the voltage of the 500-kV circuits was 550 kV, 10 percent above the nominal 500-kV
value. The voltage of 230-kV and 138-kV circuits was modeled at the nominal value.

Four transmission line designs were modeled corresponding to the designs that are expected to
be used in Oregon. Exhibit B, Figures B-15 through B-20 provide illustrations of the proposed
and alternative structures. Three line geometries were modeled for the Proposed Route:

- 500-kV transmission line on a single-circuit lattice tower (delta configuration;
 Figure B-15)
- 42 230-kV transmission line on a single-circuit H-frame structure (horizontal configuration;
 43 Figure B-19)

- 1 138-kV transmission line on a single-circuit H-frame structure (horizontal configuration: 2 Figure B-20)
- 3 In addition, one alternative geometry was modeled where special structures could be employed 4 to meet unique siting concerns:
- 5 500-kV transmission line on a single-circuit H-frame or Y-frame structure (horizontal 6 configuration; see Figures B-16 and B-17)
- 7 Additional modeling assumptions are as follows. For the two configurations of the proposed 500-kV line: 8
- 9 Each phase of the 500-kV three-phase circuit will be composed of three subconductors in a triple bundle configuration. The proposed conductor for the 500-kV line in all 10 configurations is 1519 KCM ACSR/TW "Deschutes." However, the "Deschutes" 11 12 conductor is not available from the ENVIRO program. Therefore, the comparable 1351.5 KCM ACSR/TW "Martin" was used from the ENVIRO program. 13
- 14 A minimum ground clearance of 34.5 feet was used.
- 15 A maximum voltage of 550 kV and 1,575 amps per phase (A/phase) was used.
- 16 For the proposed 230-kV rebuild:
- 17 Each phase of the 230-kV three-phase circuit will be composed of one conductor. The proposed conductor for the relocated 230-kV line is 795 KCM 26/7 ACSR "Drake." 18
- 19 A minimum ground clearance of 20 feet was used.
- 20 • A maximum voltage of 230-kV and 402 A/phase was used.
- 21 For the proposed 138-kV rebuild:
- 22 Each phase of the 138-kV three-phase circuit will be composed of one conductor. The • proposed conductor for the 138-kV line is 250 MCM copper. The specific conductor used 23 24 in the ENVIRO program was "CU250."
- 25 A minimum ground clearance of 20 feet was used.
- 26 A maximum voltage of 138-kV and 515 A/phase was used. •

27 The Project's conductor distance above ground is based on the lowest midspan height at 28 normal operating conditions, or the lowest point of the catenary. For most of the transmission line alignment, the conductors will be higher than this minimum allowable clearance, and 29 30 resulting EMF levels on the ground will be lower than indicated.

31 The level of EMF was predicted with the program EMFWorkstation: ENVIRO version 3.52. The 32 strength and range of EMF near transmission lines is a function of the line design, the voltage, 33 and amperage (also referred to as current or load). The shape or distribution of EMF around 34 transmission lines are a function of the conductor geometry as well as the size of the conductor 35 and its configuration, including if the conductors for each phase are single wires or composed of 36 multiple subconductors or bundles. The electric field strength is proportional to the voltage while the magnetic field strength is proportional to current (amperage). Unlike voltage which is 37 38 typically stable, the amperage and the resulting magnetic field around a transmission line fluctuate with the amperage or load that the line is carrying. As electrical loads vary, the 39 40 magnetic field will also vary, and this assessment was based on the design load of 1,575

A/phase. 41

- 1 Weather and humidity do not influence EMF levels. Weather does affect the level of corona
- 2 activity which influences the resulting audible noise and level of radio-frequency interference.
- 3 Corona activity is greater during wet weather and at high altitude. Corona and noise modeling is
- 4 discussed in Exhibit X. The contours of the earth or ground elevation may influence the 5 minimum ground clearance, and EMF decreases with increasing distance. The assessment in
- 6 this Exhibit was based on a minimum ground clearance of 34.5 feet. EMF levels may be
- 7 influenced by other sources of EMF, such as at the crossing of other transmission lines;
- 8 however, the nature of those interactions is to be determined through a site-specific study
- 9 conducted during detailed engineering and design.
- 10 3.5.3 Interaction with Existing Transmission Lines
- 11 In areas where the transmission lines parallel each other, fields at the edges of the ROW
- 12 nearest the adjacent line may increase or decrease depending on load and phasing, as shown
- 13 on Figures AA-9 and AA-10 (see Section 3.6). The separation between the proposed 500-kV
- 14 line and parallel lines in most cases will be greater than 200 feet where the lines do not cross.
- 15 As seen in Figure AA-9, existing parallel lines near the proposed 500-kV corridors will not result
- 16 in exceedances of the 9 kV/m electric field standard. In areas where the lines cross, increased
- 17 electromagnetic field effects will occur immediately within the ROWs for the respective lines and
- 18 the effects will decrease rapidly after the crossing. In areas where crossings occur, the vertical
- 19 transmission line height and separation will be selected during detailed design in a manner to
- 20 maintain electric fields in the area of the crossing below the 9 kV/m standard. Table AA-3 shows
- 21 the existing adjacent lines for the Proposed Route by county.

County	Paralleled Transmission Line	Parallel Location	Parallel Distance	Separation Distance	Effect on Electric and Magnetic Field
Morrow	BPA McNary to Coyote Springs 500- kV	MP 0.0 - MP 0.3	0.3 mile	280 feet	Little effect on highest fields within ROW May increase or decrease fields at edges of ROW nearest adjacent line <20% depending on load and phasing;
Morrow	BPA McNary to Boardman 230-kV	MP 0.0 - MP 0.3	0.3 mile	390 feet	Little effect on fields within ROW
Morrow	UEC Line along BPR 115-kV	MP 1.1- MP 7.0	5.9 mile	140 feet	Little effect on fields within ROW
Union	BPA Roundup to La Grande 230-kV	MP 95.9 - MP 105.7	9.8 mile	Lines cross at MPs 100.0 and 105.6	Increased fields within ROW, diminishing immediately after the crossing

22 Table AA-3. Existing Adjacent Lines for the Proposed Route

	Paralleled				
	Transmission	Parallel	Parallel	Separation	Effect on Electric and
County	Line	Location	Distance	Distance	Magnetic Field
Union and Baker	Idaho Power Quartz 230-kV	MP 109.7- MP 126.2 MP 127.8- MP 141.9 MP 143.6- MP 145.2 MP 146.1- MP 147.3 MP 150.2- MP153.2	From 1.2- 14.1 miles	250-foot minimum and crosses at MP 143.6	Increased fields within ROW, diminishing immediately after the crossing
Baker	Idaho Power NLTP 138-kV	MP 153.4- MP 156.9 MP 159.6- MP 162.9	3.5 and 3.3 miles	250-foot minimum and crosses at MPs 157, 162.8, and 164.7	Increased fields within ROW, diminishing immediately after the crossing
Baker	Idaho Power Durkee to Quartz 69-kV	MP 157.1- MP 159.5	2.4 miles	About 250-foot minimum and crosses at MPs 157.1, 159.5, and 165.6	Increased fields within ROW, diminishing immediately after the crossing
Baker and Malheur	Idaho Power WEJN-NLTP 138-kV	MP 186.0- MP 191.2 MP 197.6- MP 199.2	5.2 and 1.6 miles	About 200 to 250 feet and crosses at MPs 186.2, 191.1, 197.7, and 199.9	Increased fields within ROW, diminishing immediately after the crossing
Malheur	Idaho Power NHJN-JMSN 69-kV	_	_	Crosses at MP 216.5	Increased fields within ROW, diminishing immediately after the crossing
Malheur	Idaho Power HPJN-HRPJ 69-kV	_	_	Crosses at MP 236.4	Increased fields within ROW, diminishing immediately after the crossing
Malheur	Idaho Power from Hemmingway Station 500-kV	_	_	Crosses at MP 266.1	Increased fields within ROW, diminishing immediately after the crossing
Malheur	PacifiCorp BUMG-HMWY 500-kV	-	_	Crosses at MP 260.8	Increased fields within ROW, diminishing immediately after the crossing

3.6 Graphs of Predicted Electric and Magnetic Fields Levels

Using the transmission line design parameters described above, the ENVIRO model predicts electric and magnetic field strength at one meter above ground level, extending to either side of the centerline. As noted earlier, the predicted EMF levels are for the midspan point, or the lowest point in the catenary; field strengths would be lower than these predicted values where the conductors are higher. The predicted EMF levels out to distances of 200 feet on either side of each proposed transmission line structure type are shown as follows:

- Figures AA-1 and AA-2 show electric and magnetic field profiles for single-circuit 500-kV
 lattice structures with delta conductor configuration.
- Figures AA-3 and AA-4 show electric and magnetic field profiles for single-circuit 500-kV
 H-frame or Y-frame structures with horizontal conductor configuration.
- Figures AA-5 and AA-6 show electric and magnetic field profiles for single-circuit 230-kV
 H-frame structures with horizontal conductor configuration.
- Figures AA-7 and AA-8 show electric and magnetic field profiles for single-circuit 138-kV
 H-frame structures with horizontal conductor configuration.

16 The largest magnetic field calculated at the edge of the ROW was found for ROWs containing the 17 single-circuit 500-kV H or Y-frame structure. The highest magnetic field found within the ROW was 18 for ROWs containing the H-frame structure or Y-frame structure.

- As the 500-kV lattice structure produced the highest electric fields, the parallel lines identified in
 Table AA-3 were modeled with the 500-kV lattice structure as follows:
- Figures AA-9 and AA-10 show the electric and magnetic field profiles for the single-circuit
 500-kV lattice structures with delta conductor configuration along with the parallel lines
 identified in Table AA-3.

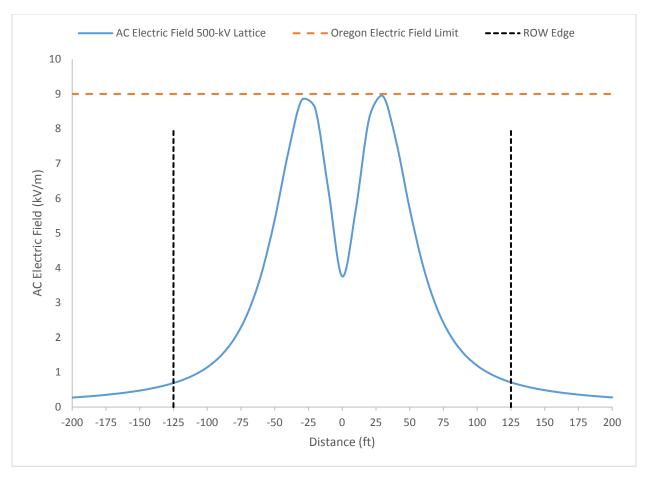
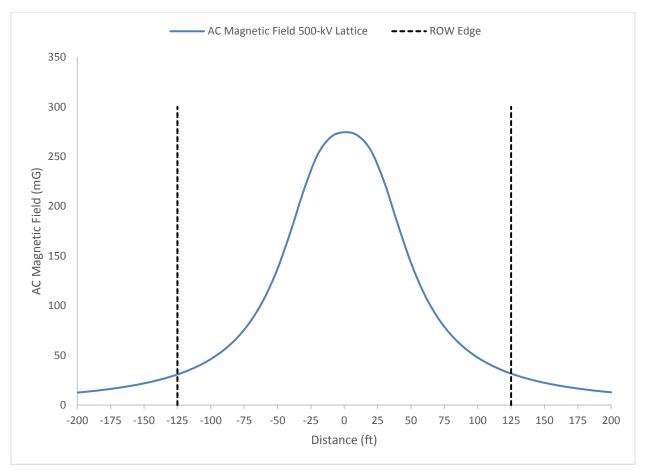


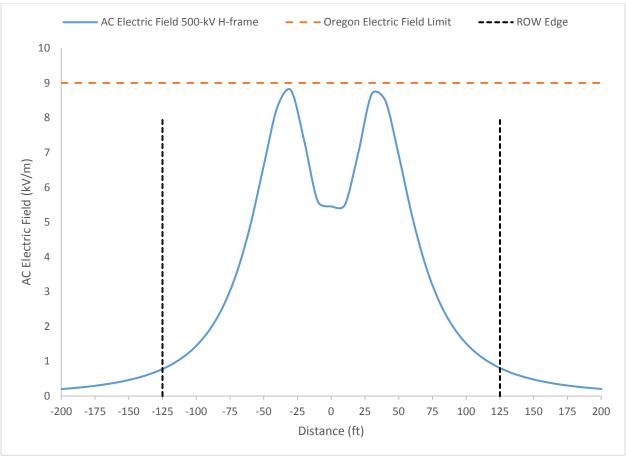
Figure AA-1. Electric Field Profile for Single-Circuit 500-kV Lattice Structures and
 Delta Conductor Configuration



1

2 Figure AA-2. Magnetic Field Profile for Single-Circuit 500-kV Lattice Structures

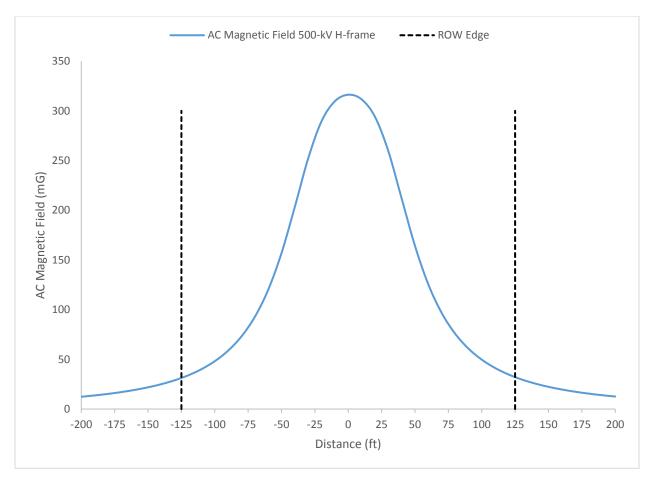
3 and Delta Conductor Configuration



1

2 Figure AA-3. Electric Field Profile for Single-Circuit 500-kV H- or Y-Frame

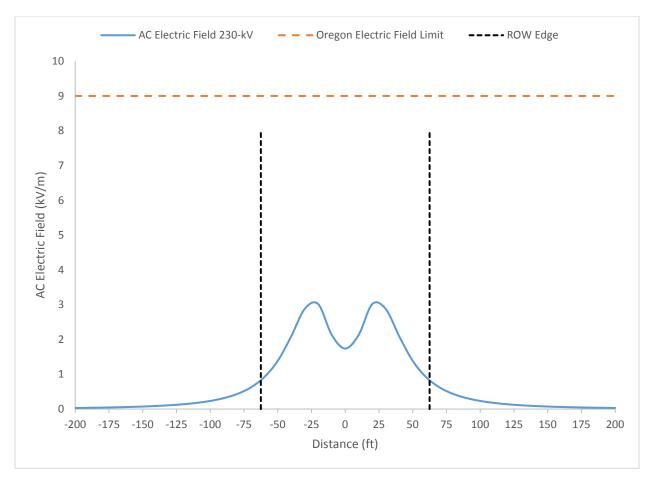
3 Structures and Horizontal Conductor Configuration



1

2 Figure AA-4. Magnetic Field Profile for Single-Circuit 500-kV H- or Y-Frame

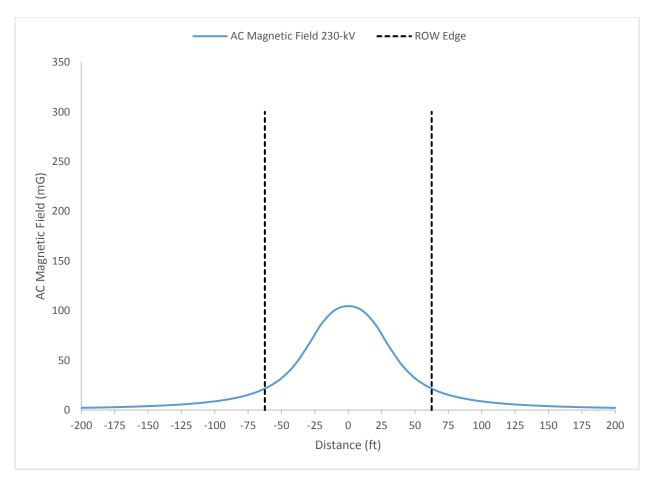
3 Structures and Horizontal Conductor Configuration



1

2 Figure AA-5. Electric Field Profile for Single-Circuit 230-kV H-Frame Structures

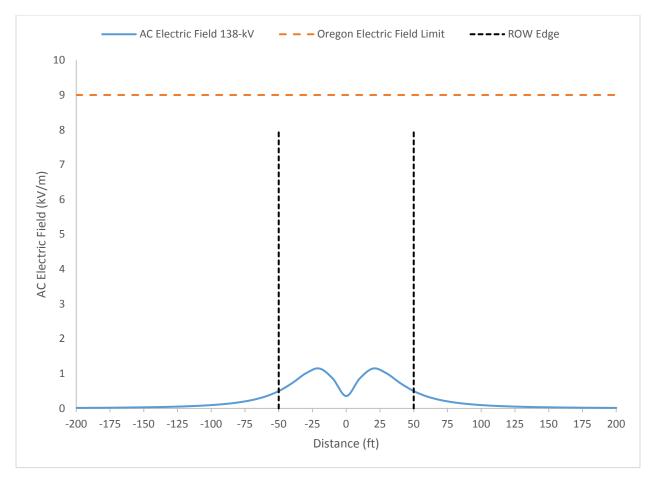
3 and Horizontal Conductor Configuration



1

2 Figure AA-6.Magnetic Field Profile for Single-Circuit 230-kV H-Frame Structures

3 and Horizontal Conductor Configuration



2 Figure AA-7. Electric Field Profile for Single-Circuit 138-kV H-Frame Structures

3 and Horizontal Conductor Configuration

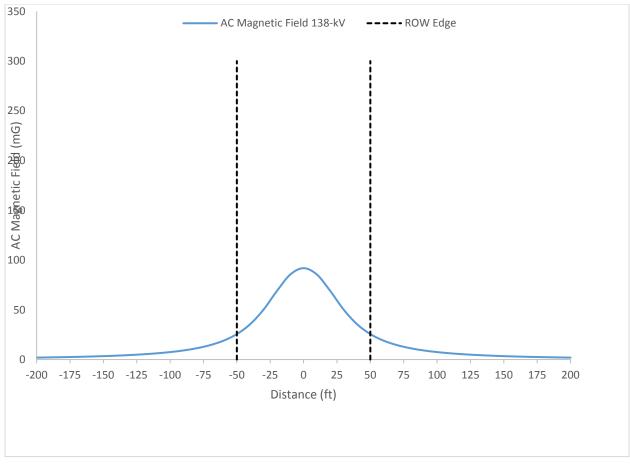
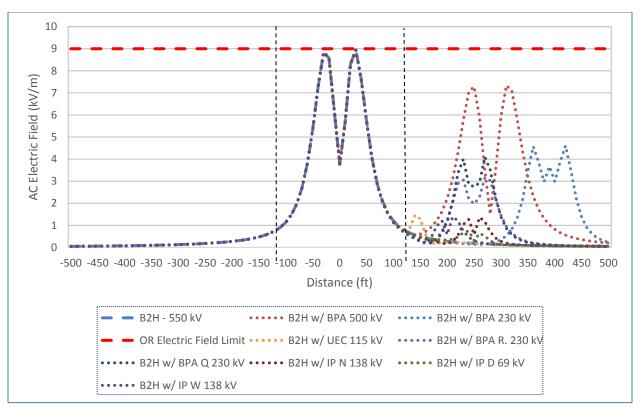


Figure AA-8.Magnetic Field Profile for Single-Circuit 138-kV H-Frame Structures
 and Horizontal Conductor Configuration



- 2 Figure AA-9. Electric Field Profile for Single-Circuit 500-kV Lattice Structures and
- 3 Existing Parallel Transmission Lines

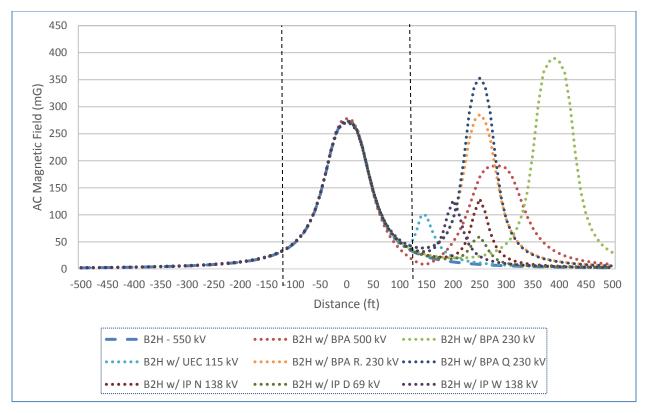


Figure AA-10. Magnetic Field Profile for Single-Circuit 500-kV Lattice Structures and Existing Parallel Transmission Lines

4

In order to demonstrate compliance with Oregon's electric field limit of 9 kV/m, and also to demonstrate consistency with other states' standards and international guidelines, Table AA-4 and Table AA-5 provide the maximum electric and magnetic field strength within the ROW and EMF levels at the edge of the ROW. Based on the design and modeling parameters described above, the Project will meet Oregon's electric field standard, and EMF levels within and at the edge of the ROW will be lower than standards and guidelines from other states and international organizations.

1 Table AA-4. Electric Field Strength for Each Considered Structural Configuration

Structure Type	ROW Width (feet)	South/West ROW Edge (kV/m)	Maximum within ROW (kV/m)⁵	North/East ROW Edge (kV/m)
500-kV lattice	250	0.8	8.9	0.8
500-kV H- or Y-frame	250	0.9	8.8	0.9
230-kV H-frame	125	0.8	5.0	0.8
138-kV H-frame	100	0.5	2.3	0.5

Electric field strength calculated at standard height of one meter above ground surface. kV = kilovolt; kV/m = kilovolt per meter; ROW = right-of-way.

2 Table AA-5. Magnetic Field Strength for Each Considered Structural Configuration

Structure Type	ROW Width (feet)	South/West ROW Edge (mG)	Maximum within ROW (mG)	North/East ROW Edge (mG)
500-kV lattice	250	33.2	274.5	34.2
500-kV H- or Y-frame	250	33.9	316.2	34.8
230-kV H-frame	125	25.4	162.8	25.4
138-kV H-frame	100	30.3	188.8	30.3

Magnetic field strength calculated at standard height of one meter above ground surface.

3 **3.7 Measures to Reduce Electric and Magnetic Field Levels**

4 OAR 345-021-0010(1)(aa)(A)(v): Any measures the applicant proposes to reduce electric or 5 magnetic field levels.

The modeling results (Attachment AA-1) are based on certain minimum ground clearances. To
ensure compliance with the AC electric field provisions of the Specific Standards for
Transmission Lines, IPC proposes that the Council include the following conditions in the site
certificate providing that IPC comply with the minimum ground clearances used in the modeling
and that the Project otherwise meet the 9 kV/m standard:

Siting Standard Condition 1: During construction, the site certificate holder
 shall take the following steps to reduce or manage human exposure to
 electromagnetic fields:
 ...
 Constructing all aboveground 500-kV transmission lines with a minimum
 clearance of 34.5 feet from the ground at normal operating conditions;
 c. Constructing all aboveground 230-kV transmission lines with a minimum

18 clearance of 20 feet from the ground at normal operating conditions;

⁵ Under OAR 345-024-0090, the 9-kV per meter threshold is focused on areas accessible to the public. Here, IPC generally will obtain easements for the lands crossed by the Project, and public access to those lands generally will depend on the policies of the landowners and will not be determined until the time that right-of-way negotiations take place (see Exhibit C, Table C-1 (describing the varying landownerships crossed by the Project)). Even so, as set forth in Table AA-4, the maximum electric field value will be below the 9-kV/m threshold throughout the right-of-way, regardless of whether there will be public access or not.

1 d. Constructing all aboveground 138-kV transmission lines with a minimum 2 clearance of 20 feet from the ground at normal operating conditions; e. In areas where aboveground transmission line will cross an existing 3 transmission line, constructing the transmission line at a height and separation 4 5 ensuring that alternating current electric fields do not exceed 9-kV per meter at 6 one meter above the ground surface; and 7 8 The National Electric Safety Code (NESC) provides industry standards for transmission line 9 design and operation, including standards for ensuring induced currents are as low as reasonably achievable. Accordingly, to ensure compliance with the induced current provisions of 10 the Specific Standards for Transmission Lines, IPC proposes that the Council include the 11 12 following conditions in the site certificate providing that the Project will be constructed consistent 13 with the 2017 version of the NESC-including the induced current provisions: 14 Siting Standard Condition 1: During construction, the site certificate holder 15 shall take the following steps to reduce or manage human exposure to 16 electromagnetic fields: 17 . . . 18 f. Constructing all aboveground transmission lines in accordance with the 19 requirements of the 2017 edition of the National Electrical Safety Code. 20 To ensure affected landowners are provided IPC's educational information, IPC proposes that the Council include the following conditions in the site certificate providing for the same: 21 22 Siting Standard Condition 2: During operation, the certificate holder shall take 23 reasonable steps to reduce or manage human exposure to electromagnetic 24 fields, including: a. Providing to landowners a map of overhead transmission lines on their 25 26 property and advising landowners of possible health and safety risks from 27 induced currents caused by electric and magnetic fields; 28 29 During final engineering and construction of the Project, IPC will identify all wire fences, 30 pipelines, irrigation lines, metal roofs and other objects nearby the ROW in which a current 31 could be induced. All such objects will be properly grounded within or as close as practicable to the ROW, in order to prevent induced current and nuisance shocks. IPC proposes that the 32 33 Council include the following conditions in the site certificate providing for the same: 34 Siting Standard Condition 2: During operation, the certificate holder shall take 35 reasonable steps to reduce or manage human exposure to electromagnetic fields, including: 36 37 38 b. Developing and implementing a program that provides reasonable assurance 39 that all fences, gates, cattle guards, trailers, irrigation systems, or other objects or structures of a permanent nature that could become inadvertently charged with 40 electricity are grounded or bonded throughout the life of the line; and 41 42 c. Implementing a safety protocol to ensure adherence to NESC grounding 43 requirements.

1 3.8 Monitoring

OAR 345-021-0010(1)(aa)(A)(vii): The applicant's proposed monitoring program, if any, for
 actual electric and magnetic field levels.

Here, post-construction monitoring is not necessary because modeling shows electric fields
levels will be below Oregon's 9-kV/m standard. Moreover, EMF levels (both electric and
magnetic fields) have been conservatively calculated assuming worst-case conditions of line
overvoltage and minimum ground clearance, and therefore, EMF levels likely will be lower than
those presented here.

9 3.9 Radio Interference

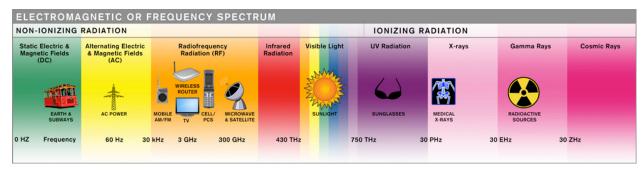
OAR 345-021-0010(1)(aa)(B): An evaluation of alternate methods and costs of reducing
 radio interference likely to be caused by the transmission line in the primary reception area
 near interstate, U.S. and state highways.

13 3.9.1 Background

14 3.9.1.1 Electromagnetic Interference

15 Electromagnetic interference from power transmission systems in the U.S. is governed by the Federal Communications Commission (FCC) Rules and Regulations (FCC 1988). A power 16 transmission line is categorized by the FCC as an "incidental radiation device." It is defined as 17 18 "a device that radiates radio frequency energy during the course of its operation although the 19 device is not intentionally designed to generate radio frequency energy." Such a device "shall be 20 operated so that the radio frequency energy that is emitted does not cause harmful interference. 21 In the event that harmful interference is caused, the operator of the device shall promptly take 22 steps to eliminate the harmful interference." In this case, "harmful interference" is defined as 23 "any emission, radiation or induction which endangers the functioning of a radio navigation 24 service or of other safety services or seriously degrades, obstructs or repeatedly interrupts a 25 radio communication service operating in accordance with this chapter" (FCC 1988). Oregon 26 does not have regulatory standards for either radio or TV interference. 27 Modern communications systems all rely on electromagnetic radiation (EMR) to transmit 28 information. AM and FM radio, TV, shortwave radio, cellular telephones, radar, Global 29 Positioning System (GPS) devices and satellite communications, cordless telephones, 30 Bluetooth, and wireless computer networks such as WiFi or wireless local area network all

- utilize a region of the electromagnetic spectrum known as "radio frequency" EMR, which
 extends from the very low-frequency end at about 30 kilohertz (kHz) up into the high-freq
- extends from the very low-frequency end at about 30 kilohertz (kHz) up into the high-frequency
 microwave range at about 300 gigahertz (GHz). Each type of technology uses a specific
- 34 segment of the electromagnetic frequency spectrum; older technology such as AM radio is at
- 35 the low-frequency end, while newer technologies such as GPS and WiFi utilize high-frequency
- 36 signals. Figure AA-11 provides a visual representation of typical communications frequencies.



Source: EMF & Radio Frequency Solutions. Available at: <u>http://www.emfrf.com/index.php/emf-rf/emf-overview/electromagnetic-spectrum-or-frequency-spectrum.html</u>.

1 Figure AA-11. Communications Frequency Spectrum

2 The level of interference can be partially determined by how similar or different the signal

3 frequency is compared to the noise frequency. In general, there is very little interaction between

4 signals of differing frequency; radio signals, TV signals, cellular phone signals, and GPS signals

5 can all coexist in the same space and time without interfering with each other. For interference

6 to occur, frequencies must be similar.

7 3.9.1.2 Sources of Electromagnetic Interference

8 EMR and resulting interference can be an indirect product of electric transmission lines. EMR 9 arises not from the lines themselves, but from the interaction of the strong electric field at the 10 surface of the conductors and other energized components with the surrounding air. Two types 11 of interactions may occur that create electromagnetic interference: corona discharge and gap 12 discharge.

13 Corona Discharge

14 High-voltage power transmission lines generate a strong electric field at the surface of the

15 conductor, which can be strong enough to split the surrounding air molecules, resulting in the

16 emission of electromagnetic energy in the form of ultraviolet and near-ultraviolet light and broad-

17 band radio frequency EMR (corona discharge also produces audible sound, which is addressed

18 in Exhibit X; audible sound is not discussed further in this Exhibit). The former can sometimes

be seen by humans under the right conditions or with specialized equipment, while the latter can
sometimes be heard as electronic "noise," or interference with radio signal reception.

21 Broadband corona EMR discharge typically occurs in the frequency spectrum from below 100

kHz to approximately 1,000 megahertz (MHz), which overlaps with the frequencies used for AM

and FM radio and some TV signals. With sufficient corona activity, low-frequency radio and TV

24 interference can be noticeable within a few hundred feet of the transmission line. These effects

are most pronounced directly underneath the line conductors, and decrease with distance from

the transmission line.

27 Corona on a transmission line conductor depends on several factors such as operating voltage,

conductor diameter, overall line geometry, weather conditions, and altitude. Conductor size, line

voltage and line geometry are taken into consideration when designing a transmission line so

- that the electric fields at the conductor surface are minimized. However, for a high-voltage line,
 any incidental irregularities on the conductor surface (for example, water droplets, dust, debris,
- 32 and nicks or scratches in the conductor) act as points where the electric field may be intensified
- 33 sufficiently to produce corona. Thus, the level of corona activity is elevated during foul weather
- 34 when raindrops on the conductor surface act as points producing corona.

Gap Discharge 1

2 A gap discharge occurs when current arcs across a gap between two conductive objects. Gap 3 discharges can produce radio noise in the lower frequencies (AM radio frequencies) and well 4 into the microwave range (analog TV frequencies). These discharges can be produced by loose 5 connections, a problem that more commonly occurs on low-voltage distribution lines but rarely occurs on high-voltage transmission lines (Trinh 2012). Unlike corona discharge, which may 6 7 occur anywhere along a high-voltage transmission line conductor, gap discharge occurs at 8 mechanical connectors and components that are used to hold the conductors in place. Gap 9 discharge is controlled through proper construction and maintenance practices to ensure all 10 mechanical connectors and components are properly assembled. Because gap discharge is an 11 intermittent, temporary, and readily resolved problem, and results only in localized electrical interference issues, the potential for interference with TV signals or higher-frequency 12 communications is not considered a significant problem. 13

3.9.1.3 Radio Interference Effects 14

15 The corona-induced broadband EMR from transmission lines can produce interference to AM 16 signals, such as a commercial AM radio audio signal (i.e., radio noise) or the video portion of an 17 older analog broadcast TV station (i.e., TV noise). Technologies that use frequency modulation, 18 such as FM radio stations and the audio portion of older analog broadcast TV signals, are 19 generally not affected by noise from a transmission line. As digital signal processing has been 20 integrated into these communication systems, the potential interference impact of corona-21 generated radio noise has decreased.

- 22 The level of interference caused by radio noise from a transmission line to the reception of a 23 radio signal depends on the location of the radio transmitter, the radio receiver, and the transmission line. A transmission line that is directly between a radio transmitter and a listener's 24 25 receiver may be more likely to interfere with that listener's reception, whereas a transmission 26 line behind or beside the listener in relation to the transmitter will not necessarily cause 27 interference, depending on the radio receiver's antennae. The radio noise generated by a 28 transmission line is very low in power and decreases rapidly as distance from the line increases. 29 It is experienced only when in close proximity to the transmission line. 30 In general, complaints related to corona-generated interference are infrequent. Moreover, the
- 31 advent of cable and satellite TV service, and the federally-mandated conversion to digital TV 32 broadcast in June 2009 have greatly reduced the occurrence of corona-generated interference. Low-frequency corona-induced EMR does not interact with the higher-frequency satellite signals 33 34 or with wired communication systems, while digital TV receivers are equipped with systems to 35 filter out interference. Many radio stations also broadcast in digital, reducing the likelihood of 36 corona-induced EMR interference. Electric power companies are able to operate very effectively 37 under the present FCC rule because harmful interference can generally be eliminated or
- 38 effectively mitigated.
- 39 Radio noise is measured in units of decibels (dB) based on its field strength referenced to a
- signal level of 1 microvolt per meter (Institute of Electrical and Electronics Engineers [IEEE] 40
- 41 1986). Corona-induced radio noise during fair weather is calculated to be approximately 40 dB
- 42 (dB-1 microvolt per meter $[1 \mu V/m]$) at the edge of the ROW. This is considered an acceptable
- 43 level (IEEE 1971). When the transmission line is in proximity to roadways (for example,
- 44 interstate, U.S., and state highways), such as when it passes over these roadways, radio
- 45 interference may be experienced for short distances while in proximity to the line. Interference
- 46 may be more noticeable near the line particularly during foul weather, when corona activity is
- 47 elevated.

1 3.9.1.4 Interference with Other Electronic Communications

2 Wireless computer network systems, cell phones, GPS units, and satellite receivers operate at 3 high frequencies in the tens to hundreds of MHz or even GHz. These systems also often use 4 FM or digital coding of the signals so they are relatively immune to electromagnetic interference 5 from transmission line corona. GPS units are used in a wide range of activities, including 6 several important agricultural activities such as monitoring pivot irrigation, tracking wheeled and 7 tracked equipment movements during farming operation, and checking the orientation of aerial 8 spraying aircraft. GPS units operate in the frequency range of 1.2 to 1.6 GHz. Satellite receivers 9 operate at frequencies of 3.4 GHz to 7 GHz and have shown no effect from transmission lines 10 unless the receiver was trying to view the satellite through the transmission tower or conductor bundle of the transmission line (Chartier et al. 1986). Repositioning the receiver by a few feet 11 12 was sufficient to eliminate the obstruction and reduced signal. Mobile phones operate in the radiofrequency range of about 800 MHz to 1,900 MHz or higher. As a result of the high 13 frequencies used by these devices, modulation and processing techniques, and the typically 14 15 lower-frequency corona-induced EMR, effects from interference are unlikely.

16 The voltages and currents associated with the transmission line have the potential to induce

voltage and current in nearby conductors (e.g., ungrounded metal fences and ungrounded metal

18 irrigation systems). This effect is more likely where ungrounded fences or irrigation systems are

19 parallel and long (1 mile or more). These induced voltages could result in a "nuisance" shock to 20 anyone who touches such a fence or irrigation system. These shocks are known as nuisance or

21 "startle" shocks as they will not physically harm someone, but may be noticed by some people

and provoke a startle reaction. An example of an ungrounded metal irrigation system would be a

23 center pivot system on rubber tires. By contrast, the Vermeer-type metal irrigation system is

24 grounded through its metal wheels and therefore presents less of a shock hazard.

A GPS unit in farming equipment should work properly within the vicinity of a transmission line. GPS devices continually pull signals from a number of satellites, not just one and may also utilize a fixed base station. A signal may be blocked temporarily if the transmission structure is between the receiver and a weak signal, but it will return as the farm equipment moves past the structure. It is also common for GPS receivers to drop and pick up signals even in the absence of transmission lines and structures. If the base station signal is weak or blocked, additional or alternate locations may improve the signal and performance.

32 Signal interference occurs when other signals at the same frequency as the satellite signal are present, Multipath occurs when objects such as buildings, structures, or tractor parts reflect a 33 34 GPS satellite signal, causing the satellite signal to arrive at the receiver later than it would have if it followed a straight line from the satellite. A study commissioned by EPRI found that signal 35 36 interference is "unlikely" based on the design of GPS receivers and their ability to separate the 37 GPS signal from background noise (Silva and Olsen 2002). Another study compared the 38 accuracy of real-time kinematic GPS receivers at different locations to transmission lines and 39 towers (Gibbings et al. 2001). This study concluded that multipath from transmission towers 40 could result in GPS-initialization errors (e.g., the system reports the wrong starting location) 1.1 41 percent to 2.3 percent of the time. This study also reported that GPS software was able to 42 identify and correct these initialization errors within the normal startup time. This study reported 43 initialization errors caused by electromagnetic interference from energized overhead 44 transmission lines when the GPS receiver was located outside the vehicle, but concluded that 45 "most, if not all of this effect can be eliminated by shielding the receiver and cables." Placing the 46 receiver inside the vehicle significantly reduced initialization errors.

47 IPC does not specifically track interference with GPS tractor navigation systems; however,

48 these systems are widely used in other locations in IPC's service area and several existing

1 transmission lines up to 500-kV cross the area. Over the last 10 years, IPC has not been

2 contacted about interference with tractor GPS navigation systems. Users of these systems have

3 expressed concerns about the possibility of interference, but no specific examples have been

4 reported.

5 3.9.2 Evaluation of Alternate Methods and Costs to Reduce Interference

6 Design options for reducing the radio noise from the transmission line include use of larger

7 diameter conductors, or use of more conductors within the conductor bundles. Increasing the

8 distance between phases of the lines (conductor bundles) may also result in a decrease in the

9 radio noise. These line design options have been employed to minimize the generation of radio

10 noise to acceptable levels.

3.10 Long-Term Electric and Magnetic Fields Health Effects

12 3.10.1 Studies on Electric and Magnetic Fields

13 For more than 30 years, questions have been asked about the potential effect on people of EMF

14 from power lines. Early studies focused on electric fields, and magnetic fields began receiving

15 increased attention in the late 1970s. A substantial amount of research has been conducted in

16 the U.S. and around the world over the past several decades examining whether exposures to

17 power-frequency EMFs cause health or environmental effects.

18 Epidemiological studies have addressed many of the issues raised about EMFs and health.

19 Multidisciplinary reviews express the consensus in the scientific community that the

20 epidemiologic evidence is insufficient to demonstrate a causal relationship between extremely

21 low-frequency (power frequency) EMF and any health effect (NIEHS 1998, 1999; HCN 2001,

22 2004; National Radiological Protection Board of Great Britain [NRPB] 2001, 2004; IARC 2002).

23 Several organizations responsible for health decisions, including national and international

organizations, have convened groups of scientists to review the body of EMF research. These

25 expert groups, including the National Academy of Science, the NIEHS, the International Agency

for Research on Cancer, the National Radiological Protection Board of Great Britain, and the

Health Council of the Netherlands, have included dozens of scientists with diverse skills thatreflect the different research approaches required to answer questions about health.

zo reliect the different research approaches required to answer questions about health.

29 The assessments by these organizations agree that little evidence is available to suggest EMF

30 is associated with adverse health effects, including most forms of adult and childhood cancer,

heart disease, Alzheimer's disease, depression, and reproductive effects. However, all of the

32 assessments concluded that epidemiology studies in total suggest an association between

33 magnetic fields at higher time-weighted average exposure levels (greater than 4 mG) and

34 childhood leukemia. Nevertheless, all agree that the experimental laboratory data do not

35 support a causal link between EMF and any adverse health effect, including leukemia, and have

36 not concluded that EMF is, in fact, the cause of any disease.

Animal exposure to EMFs has also been investigated for over 30 years. Vegetation in the form of grasses, shrubs, and small trees largely shields small, ground-dwelling species, such as

39 mice, rabbits, foxes, and snakes, from electric fields. Species that live underground, such as

40 moles, woodchucks, and worms, are further shielded from electric fields by the soil: aquatic

41 species are shielded from electric fields by water. Large species such as deer and domestic

42 livestock have greater potential exposures to electric fields since they can stand taller than the

43 surrounding vegetation. However, the duration of exposure for deer and other large animals is

44 limited to foraging bouts or the time it takes them to cross under the line. All species will be

45 exposed to higher magnetic fields under or near a transmission line than elsewhere because

vegetation and soil do not provide shielding from this aspect of the transmission-line electrical
 environment.

3 Field studies have been performed to monitor the behavior of large mammals in the vicinity of

high-voltage transmission lines. No effects of electric or magnetic fields were evident in two
 studies from the northern U.S. on big game species, such as deer and elk, exposed to a 500-kV

6 transmission line (Goodwin 1975; Picton et al. 1985).

7 Much larger populations of animals that might spend time near a transmission line are livestock 8 that graze under or near transmission lines. To provide a more sensitive and reliable test for adverse effects other than informal observation, scientists have studied animals continuously 9 exposed to fields from high-voltage lines in relatively controlled conditions. For example, grazing 10 11 animals, such as cows and sheep, have been exposed to high-voltage transmission lines and their reproductive performance examined (Lee et al. 1996). No adverse effects were found 12 13 among cattle exposed to a 500-kV direct-current overhead transmission line over one or more successive breeding events (Angell et al. 1990). Compared to unexposed animals in a similar 14 15 environment, the exposure to 50-Hz fields did not affect reproductive functions or pregnancy of cows (Algers and Hennichs 1985; Algers and Hultgren 1987). Sheep and cattle exposed to 16 17 EMFs from transmission lines exceeding 500 kV were examined and no effect was found on 18 their levels of hormones in the blood, weight gain, onset of puberty, or behavior (Stormshak et 19 al. 1992; Lee et al. 1993; Lee et al. 1995; Thompson et al. 1995; Burchard et al. 1998; Burchard 20 et al. 2004).

21 Similar to the human health studies, no mechanism has been demonstrated between the

22 exposure of an animal to transmission line levels of electric and magnetic fields and a disease

- 23 outcome. Another noteworthy study was performed by a professor of veterinary medicine at
- 24 Purdue University. The study evaluated the effect of high-voltage power lines on milk
- 25 production, reproductive performance, and the general health of farm animals maintained under
- 26 practical farm conditions. Doctors Amstutz and Miller compared horses, beef cattle, dairy cattle,
- sheep, and hogs on 12 different farms in central Indiana. Some of the farms were located near a
- 28 765-kV electric transmission line while other farms with similar herds were located away from
- the line. The study concluded that there was no apparent difference between the animals
- 30 located near the line and those located away from the line.
- 31 Greenberg et al. (1981) studied honeybee colonies placed near 765-kV transmission lines. They
- 32 found that hives exposed to AC electric fields of 7-kV/m had decreased hive weight, abnormal
- amounts of propolis (a resinous material) at hive entrances, increased mortality and irritability,
- 34 loss of the queen in some hives, and a decrease in the hive's overall survival compared to hives
- 35 that were not exposed. Placing the hive farther from the line, shielding the hive, or using hives
- 36 without metallic parts eliminates this problem.
- 37 Numerous studies have been carried out to assess the effect of plant exposure to transmission

38 line EMFs. These studies have involved forest species and agriculture crops. Researchers have

39 found no adverse effects on plant responses, including seed germination, seedling emergence,

40 seedling growth, leaf area per plant, flowering, seed production, germination of the seeds,

- 41 longevity, and biomass production (Lee et al. 1996).
- 42 Direct excerpts from certain of the reports discussed above are included here.

43 National Institute of Environmental Health Sciences (NIEHS 1999)

- 44 "The scientific evidence suggesting that ELF-EMF exposures pose any health risk is weak. The
- 45 strongest evidence for health effects comes from associations observed in human populations
- 46 with two forms of cancer: childhood leukemia and chronic lymphocytic leukemia in

- 1 occupationally exposed adults. While the support from individual studies is weak, the
- 2 epidemiological studies demonstrate, for some methods of measuring exposure, a fairly
- 3 consistent pattern of a small, increased risk with increasing exposure that is somewhat weaker
- 4 for chronic lymphocytic leukemia than for childhood leukemia. In contrast, the mechanistic
- studies and the animal toxicology literature fail to demonstrate any consistent pattern across
 studies although sporadic findings of biological effects have been reported. No indication of
- receased leukemia in experimental animals has been observed."
- increased leukemia in experimental animais has been observed.
- 8 "The lack of connection between the human data and the experimental data (animal and
- 9 mechanistic) severely complicates the interpretation of these results. The human data are in the
- 10 "right" species, are tied to "real life" exposures and show some consistency that is difficult to
- 11 ignore. This assessment is tempered by the observation that given the weak magnitude of these
- 12 increased risks, some other factor or common source of error could explain these findings.
- 13 However, no consistent explanation other than exposure to ELF-EMF has been identified."
- 14 "Epidemiological studies have serious limitations in their ability to demonstrate a cause and
- 15 effect relationship whereas laboratory studies, by design, can clearly show that cause and effect
- 16 are possible. Virtually all of the laboratory evidence in animals and humans and most of the
- 17 mechanistic work done in cells fail to support a causal relationship between exposure to ELF-
- 18 EMF at environmental levels and changes in biological function or disease status. The lack of
- 19 consistent, positive findings in animal or mechanistic studies weakens the belief that this
- association is actually due to ELF-EMF, but it cannot completely discount the epidemiological
 findings."
- 22 "The NIEHS concludes that ELF-EMF exposure cannot be recognized at this time as entirely
- 23 safe because of weak scientific evidence that exposure may pose a leukemia hazard. However,
- because virtually everyone in the United States uses electricity and therefore is routinely
- exposed to ELF-EMF, passive regulatory action is warranted such as a continued emphasis on
- educating both the public and the regulated community on means aimed at reducing exposures.
- 27 The NIEHS does not believe that other cancers or non-cancer health outcomes provide
- 28 sufficient evidence of a risk to currently warrant concern."

29 National Academy of Sciences (1999)

- "An earlier Research Council assessment of the available body of information on biologic effects
 of power-frequency magnetic fields (National Research Council [NRC], 1997;
- 32 http://www.nap.edu/catalog.php?record id=5155#toc) led to the conclusion 'that the current
- 33 body of evidence does not show that exposure to these fields presents a human health hazard.
- 34 Specifically, no conclusive and consistent evidence shows that exposure to residential electric
- 35 and magnetic fields produces cancer, adverse neurobehavioral effects, or reproductive and
- 36 developmental effects'. The new, largely unpublished contributions of the EMF-RAPID program
- 37 are consistent with that conclusion. We conclude that no finding from the EMF-RAPID program
- 38 alters the conclusions of the previous NRC review on the Possible Effects of Electromagnetic
- 39 Fields on Biologic Systems (NRC, 1997). In view of the negative outcomes of EMFRAPID
- 40 replication studies, it now appears even less likely that MFs [magnetic fields] in the normal
- 41 domestic or occupational environment produce important health effects, including cancer."

42 National Radiological Protection Board of Great Britain (NRPB 2001, 2004)

- 43 "Laboratory experiments have provided no good evidence that extremely low-frequency [ELF]
- 44 electromagnetic fields are capable of producing cancer, nor do human epidemiological studies
- 45 suggests that they cause cancer in general. There is, however, some epidemiological evidence
- 46 that prolonged exposure to higher levels of power frequency magnetic fields is associated with a

- 1 small risk of leukemia in children. In practice, such levels of exposure are seldom encountered 2 by the general public in the UK [or in the US]."
- 3 "Because of the uncertainty... and in absence of a 'dose-response' relationship, NRPB has
- concluded that the data concerning childhood leukemia cannot be used to derive quantitative 4 5 guidance on restricting exposure."

6 Health Council of the Netherlands (HCN 2001 and 2004)

- 7 "Because the association is only weak and without a reasonable biological explanation, it is not
- 8 unlikely that it [an association between ELF exposure and childhood leukemia] could also be
- 9 explained by chance... The committee therefore sees no reason to modify its earlier conclusion 10
- that the association is not likely to be indicative of a causal relationship."
- 11 "The Committee, like the IARC itself, points out that there is no evidence to support the
- 12 existence of a causal relationship here. Nor has research yet uncovered any evidence that a 13 causal relationship might exist."

14 International Agency for Research on Cancer (IARC 2002)

- 15 "Studies in experimental animals have not shown consistent carcinogenic or co-carcinogenic
- 16 effects of exposures to ELF [extremely low frequency] magnetic fields, and no scientific
- 17 explanation has been established for the observed association of increased childhood leukemia
- 18 risk with increasing residential ELF magnetic field exposure." IARC categorized EMF as a
- 19 "possible carcinogen" for exposures at high levels, based on the meta-analysis of studies of
- 20 statistical links with childhood leukemia at levels above 3 to 4 mG.

21 3.10.2 Oregon Energy Facility Siting Council Report

- 22 In the fall of 2009, EFSC requested that its contractor review recently released and historical
- information about EMF to validate that the 9-kV/m requirement was still relevant. In 2009, 23
- 24 ICNIRP released their update, and that report triggered EFSC's request.
- 25 Previously, in 1991 EFSC had established an Electric and Magnetic Field Committee that
- 26 conducted its own review of the science concerning EMF, and concluded that while low-cost
- prudent avoidance of EMF exposure by the general public was encouraged, it was premature to 27
- 28 set health-based limits to EMF from 60 Hz power lines based on the available science at that
- 29 time. The Committee did recommend continuing to review the science surrounding EMF and
- 30 potential health issues. The report compiled newly available information and was presented to
- 31 EFSC in 2009. The report contained a discussion of U.S. state and federal level regulatory 32 activities regarding EMF from transmission lines, along with a discussion of the factors that
- 33 confound experiments and epidemiological EMF studies, complicating their interpretation.
- 34 Dr. Warner concluded: "Although there has been considerable research on the potential
- negative health effects of extremely low-frequency EMF exposure in the last two decades, the 35
- 36 conclusions drawn by US and international reviewing bodies are not significantly different from
- 37 those drawn by the Council's Electric and Magnetic Field Committee in 1993. Those
- conclusions are (1) there is a need to continue to monitor the science on EMF, (2) low-cost 38
- prudent avoidance measures of public EMF exposure is appropriate, and (3) health-based 39
- exposure limits are not appropriate with the scientific data available to date." At this point, EFSC 40
- 41 decided to take no additional actions regarding the 9-kV/m requirement.

1 3.10.3 Bonneville Power Administration Report

2 The Bonneville Power Administration retained Exponent to prepare a report "Research on Extremely Low Frequency Electric and Magnetic Fields and Health" (Exponent 2015). The study 3 4 provided an overview of previous research that investigated links between extremely low 5 frequency electric and magnetic fields and various forms of cancer, leukemia and lymphoma, 6 reproductive and developmental effects and neurodegenerative disease as well as an 7 evaluation of research on the effects on pacemakers and other cardiac devices, plants and 8 animals. 9 The report indicates that recent studies have shown no solid causal relationship between the

exposure to electric and magnetic fields and the development of childhood cancer, leukemia,
 breast cancer, brain cancer, tumors, genotoxic effects in mammals, reproductive and

12 developmental effects, and neurodegenerative diseases. The overview also highlighted the lack

13 of a link to adverse effects on animal populations in the vicinity of high voltage transmission

14 lines. The overview did note that interference with the operation of pacemakers and other

15 cardiac devices was possible but unlikely due to modern device designs. Finally, the overview

16 reviewed studies that indicated there may be an adverse effect on commercial honey bee hives

17 although there was not a link to effects on wild honey bees.

18 **3.10.4 Other Health Effects**

One area of concern related to transmission line EMF is the potential for interference with cardiac pacemakers and defibrillators. A cardiac pacemaker monitors the electrical activity of the heart. If the heart fails to beat, the pacemaker administers a small stimulus to trigger the missing beats. An implanted cardiac defibrillator similarly monitors the electrical activity of the heart but is designed to block disorganized contractions of the heart (arrhythmias) by administering a strong electrical shock to restore normal heart rhythms. Exposure to EMFs could affect the function of these devices if induced signals on sensing leads are interpreted as

26 natural cardiac activity (Griffin 1986; CCOHS 1988; Barold et al. 1991). As a result of recent

design improvements, many pacemakers will not be particularly susceptible to electrical fields.

There remains a small possibility that some pacemakers, particularly those of older designs and with single-lead electrodes, may sense potentials induced on the electrodes and leads of the

30 pacemaker and provide unnecessary stimulation to the heart. However, the opportunities for

31 exposure and interference from power lines are lower than for contact with ordinary household

32 appliances.

33 EMFs from a variety of sources, including some industrial equipment, automobile ignition wiring,

34 anti-theft devices in stores, magnetic resonance imaging (or MRI) machines, slot machines, cell

35 phones, and certain medical procedures (e.g., radiation therapy, electrocautery, and

36 defibrillation), have been reported to affect the operation of implanted cardiac pacemakers and

37 defibrillators. In theory, pacemaker interference from the electric fields associated with high-

voltage transmission lines may be possible depending on the type of pacemaker, the person's

39 location and orientation under the conductors of the transmission line, and the voltage and

40 design of the transmission line. The manufacturers of pacemakers have designed their devices

in various ways to minimize potential interference from external sources, including power line
 EMFs. For example, the increasingly prevalent bipolar pacemaker models are virtually immune

42 to interference. Medtronic, a leading producer of pacemakers, notifies users of its products to

44 limit their exposure to power frequency fields to below 6 kV/m and 1,000 mG to protect against

44 Infinit their exposure to power requency fields to below 6 kV/m and 1,000 mG to p 45 possible electrical interference (Medtronic 2006).

Two general types of pacemakers exist: asynchronous and synchronous. The asynchronous
 pacemaker pulses at a predetermined rate. It is practically immune to interference because it

1 has no sensing circuitry and is not exceptionally complex. The synchronous pacemaker, on the

- 2 other hand, pulses only when its sensing circuitry determines pacing is necessary. Interference
- 3 resulting from transmission line EMFs can cause a spurious signal in the pacemaker's sensing 4 circuitry. However, when these pacemakers detect a spurious signal, such as a 60-Hz signal,
- they are programmed to revert to an asynchronous or fixed pacing mode of operation and return 5
- to synchronous operation within a specified time after the signal is no longer detected. The 6
- 7 potential for pacer interference depends on the manufacturer, model, and implantation method,
- 8 among other factors. Studies have determined thresholds of interference for the most sensitive
- 9 units to be about 2,000 to 12,000 mG for magnetic fields and about 1.5 to 2.0 kV/m for electric
- 10 fields. The magnetic fields from the transmission lines are well below these values, even the
- peak magnetic field of 316 mG found on the ROW (Table AA-5) for the H-frame tower. The 11 12 electric fields expected at the edges of the ROW (1.2 kV/m or less) are below the threshold level
- 13 of 1.5 kV/m for the most sensitive pacemaker. The proposed transmission lines will not affect
- pacemakers outside the ROW. 14
- 15 Cardiovascular specialists do not consider prolonged asynchronous pacing to be a problem.
- Periods of operation in this mode are commonly induced by cardiologists to check pacemaker 16
- 17 performance. Although the electric field within areas of the transmission line ROW may affect
- 18 the operation of some models of pacemakers by causing them to revert to asynchronous
- 19 pacing, this will only be for a short duration while walking under the transmission lines and is not
- 20 considered harmful. The vehicle compartment of a car or truck or the cab of agricultural

21 equipment (combine or tractor) shields the occupant from the electric field. Pacemakers in areas

- 22 outside the transmission line ROW will not be affected. Before walking under the conductors of
- 23 a high-voltage transmission line on the ROW, those with pacemakers or defibrillators should 24 check with their physician if they have concerns.

IDAHO POWER'S PROPOSED SITE CERTIFICATE CONDITIONS 4.0 25

26 IPC proposes the following site certificate conditions to ensure compliance with the relevant 27 EFSC standards.

28 **During Construction**

- 29 30 Siting Standard Condition 1: During construction, the site certificate holder shall take the following steps to reduce or manage human exposure to 31 32 electromagnetic fields:
- 33 a. Constructing all aboveground transmission lines at least 200 feet from any 34 residence or other occupied structure, measured from the centerline of the 35 transmission line:
- b. Constructing all aboveground 500-kV transmission lines with a minimum 36 37 clearance of 34.5 feet from the ground at normal operating conditions;
- 38 c. Constructing all aboveground 230-kV transmission lines with a minimum
- clearance of 20 feet from the ground at normal operating conditions; 39
- 40 d. Constructing all aboveground 138-kV transmission lines with a minimum clearance of 20 feet from the ground at normal operating conditions; 41
- e. In areas where aboveground transmission line will cross an existing 42
- 43 transmission line, constructing the transmission line at a height and separation 44
- ensuring that alternating current electric fields do not exceed 9-kV per meter at 45 one meter above the ground surface; and
- 46 f. Constructing all aboveground transmission lines in accordance with the 47
 - requirements of the 2017 edition of the National Electrical Safety Code.

<u>During Operation</u>

1

2 3 Siting Standard Condition 2: During operation, the site certificate holder shall 4 take the following steps to reduce or manage human exposure to 5 electromagnetic fields: a. Providing to landowners a map of overhead transmission lines on their 6 7 property and advising landowners of possible health and safety risks from 8 induced currents caused by electric and magnetic fields; 9 b. Implementing a program that provides reasonable assurance that all fences, gates, cattle guards, trailers, irrigation systems, or other objects or structures of a 10 permanent nature that could become inadvertently charged with electricity are 11 12 grounded or bonded throughout the life of the line; and 13 c. Implementing a safety protocol to ensure adherence to NESC grounding 14 requirements.

15 **5.0 CONCLUSION**

- 16 Exhibit AA demonstrates the Project will ensure public health and safety with respect to EMFs.
- 17 Also, this Exhibit, together with the data provided in Exhibit DD, demonstrates that the Project's
- 18 AC electric fields and induced currents will comply with the Specific Standards for Transmission
- 19 Lines under OAR 345-024-0090 provide.

20 6.0 COMPLIANCE CROSS-REFERENCES

21 Table AA-6 identifies the location within the application for site certificate of the information

responsive to the application submittal requirements of OAR 345-021-0010(1)(aa), the Specific

Standards for Transmission Lines at OAR 345-024-0090, and the relevant Amended Project
 Order provisions.

25 Table AA-6. Compliance Requirements and Relevant Cross-References

Requirement	Location
OAR 345-021-0010(1)(aa)	
Exhibit AA. If the proposed energy facility is a transmission line or has, as a related or supporting facility, a transmission line of any size:	
(A) Information about the expected electric and magnetic fields, including:	
(i) The distance in feet from the proposed center line of each proposed transmission line to the edge of the right-of-way;	Exhibit AA, Section 3.3
(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;	Exhibit AA, Section 3.4
(iii) The approximate distance in feet from the proposed center line to each structure identified in (A);	Exhibit AA, Section 3.4
(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;	Exhibit AA, Section 3.6, Figure AA-1 through Figure AA-8

Requirement	Location
(v) Any measures the applicant proposes to reduce electric or magnetic field levels;	Exhibit AA, Section 3.7
(vi) The assumptions and methods used in the electric and magnetic field analysis, including the current in amperes on each proposed transmission line; and	Exhibit AA, Section 3.5
(vii) The applicant's proposed monitoring program, if any, for actual electric and magnetic field levels; and	Exhibit AA, Section 3.8
(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;	Exhibit AA, Section 3.9
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;	Exhibit AA, Section 3.5; Exhibit DD, Section 3.3
(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.	Exhibit AA, Section 3.5; Exhibit DD, Section 3.4
Amended Project Order, Section III(aa)	-
The application should address public concerns expressed during the scoping period about electric and magnetic fields (EMF) generated by the proposed transmission facility. Although the Council does not have an "EMF Standard," it does have a statutory mandate to adopt any conditions needed to ensure public health and safety. This mandate provides the regulatory basis for any findings or conditions, including setbacks, based on EMF considerations.	Exhibit AA, Section 3.10

1 7.0 RESPONSE TO PUBLIC COMMENTS

2 Table AA-7 identifies the location within the application for site certificate of the information

3 responsive to the public comments cited in the Amended Project Order.

1 Table AA-7. Public Comments

Comment	Location
Numerous commenters expressed concern about potential human health impacts of a high voltage transmission line from electromagnetic fields, corona effects, and induced currents. Exhibit AA shall include evidence that the proposed facility can meet the Council standards specific to transmission lines, and include mitigation measures proposed by the applicant to reduce or eliminate threats to human health and safety during construction and operation of the transmission line.	Exhibit AA, Section 3.10; Exhibit DD, Section 3.5
Many commenters expressed concern about the possibility that the transmission line will interfere with the normal operations of radios, telephones, and other electronic devices in the vicinity of the line. Exhibit AA should include discussion and mitigation measures to reduce or eliminate interference with electronic devices. This is especially important in farm use zones, where farmers often use a variety of electronic locating devices on mechanical equipment during planting and harvesting and other farming activities.	Exhibit AA, Section 3.9

2

3 8.0 REFERENCES

- Algers, B., and K. Hennichs. 1985. The Effect of Exposure to 400-kV Transmission Lines on the
 Fertility of Cows: A Retrospective Cohort Study. *Preventive Veterinary Medicine* 3:351–
 361.
- Algers, B., and J. Hultgren. 1987. Effects of Long-Term Exposure to a 400-kV, 50-Hz
 Transmission Line on Estrous and Fertility in Cows. *Preventive Veterinary Medicine* 5:21–36.
- Angell, R.F., M.R. Schott, R.J. Raleigh, and T.D. Bracken. 1990. Effects of a High-Voltage
 Direct-Current Transmission Line on Beef Cattle Production. *Bioelectromagnetics* 11(4):273–282.
- Barold, S.S., M.D. Falkoff, L.S. Ong, and R.A. Heinle. 1991. Interference in cardiac
 pacemakers: exogenous sources. In: *Cardiac Pacing and Electrophysiology*, 3rd Ed. El Sherif, N; Samet, P (eds). Philadelphia, PA: WB Saunders Co, pp. 608-633.
- BPA (Bonneville Power Administration). Undated. "Corona and Field Effects" Computer
 Program Public Domain Software. Bonneville Power Administration, Vancouver, WA.
- Burchard, J.F., D.H. Nguyen, and E. Block. 1998. Effects of Electric and Magnetic Fields on
 Nocturnal Melatonin Concentrations in Dairy Cows. *Journal of Dairy Science* 81(3):722 727.
- Burchard, J.F. D.H. Nguyen, H.G. Monardes, and D. Petitclerc. 2004. Lack of Effect of 10 kV/m
 60 Hz Electric Field Exposure on Pregnant Dairy Heifer Hormones. *Bioelectromagnetics* 25(4):308-312.
- CCOHS (Canadian Centre for Occupational Health and Safety). 1988. Possible Health Hazards
 for Cardiac Pacemaker Wearer From Exposure to Electromagnetic Fields. CCOHS
 Number: P88-5E; DSS catalogue number: CC273-2/88-5E; Hamilton, Ontario.

- Chartier, V., R. Sheridan, J. DiPlacido, and M. Loftness. 1986. Electromagnetic Interference
 Measurements at 900 MHz on 230 kV and 500 kV Transmission Lines. *IEEE Transactions on Power Systems, PWRD-1*: 140-149.
- Council of the European Union (EU). 1999. Council Recommendation of 12 July 1999 on the
 limitation of exposure of the general public to electromagnetic fields. Official Journal of
 the European Communities. 1999/199/59. Available online at: http://eurlex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:1999:199:0059:0070:EN:PDF
- 8 EFSC (Oregon Energy Facility Siting Council). 2009. EMF Report: A Review of the Current
 9 Scientific Literature on Health Effects of Electric and Magnetic Fields. Oregon
 10 Department of Energy, Salem, OR.
- EPRI (Electric Power Research Institute). 1997. EMFWorkstation: ENVIRO. Version 3.52. Palo
 Alto, CA.
- EPRI. 2005. AC Transmission Line Reference Book: 200 kV and Above. Third ed. EPRI, Palo
 Alto, CA. 1011974.
- Exponent. 2015. Prepared for the BPA: Research on Extremely Low Frequency Electric and
 Magnetic Fields and Health. Menlo Park, CA.
- FCC (Federal Communications Commission). 1988. Federal Communications Commission
 Rules and Regulations. 10-1-88 ed. Vol. II part 15, 47 CFR, Ch. 1.
- Gibbings, P., B. Manuel, R. Penington, and K. McDougall. 2001. Assessing the Accuracy and
 Integrity of RTK GPS Beneath High-voltage Power Lines. In: *42nd Australian Surveyors Congress 2001: A Spatial Odyessy*, 25-28 Sep 2001, Brisbane, Australia.
- Goodwin Jr., J.G. 1975. Big Game Movement Near a 500 kV Transmission Line in Northern
 Idaho. Bonneville Power Administration, Engineering and Construction Division,
 Portland, OR. June 27.
- Greenberg, B., V.P. Bindokas, M.J. Frazier, and J.R. Gauger. 1981. Response of honey bees,
 apis mellifera L., to high-voltage transmission lines. *Environmental Entomology* 10:600–
 610.
- Griffin, J.C. 1986. Cardiac pacemakers: effects of power frequency electric and magnetic fields.
 Presented at the International Utility Symposium, Health Effects of Electric and Magnetic
 Fields: Research, Communications, Regulation. September 16-19; Toronto, Canada.
- HCN (Health Council of the Netherlands). 2001. ELF Electromagnetic Fields Committee.
 Electromagnetic fields: Annual Update 2001. No. 2001/14.
- HCN. 2004. ELF Electromagnetic Fields Committee. Electromagnetic fields: Annual Update
 2003. The Hague: Health Council of the Netherlands. Publication No. 2004/1.
- IARC (International Agency for Research on Cancer). 2002. IARC Monographs on the
 evaluation of carcinogenic risks to humans. Volume 80: Static and Extremely Low Frequency (ELF) Electric and Magnetic Fields. IARC Press. Lyon, France.
- ICES (International Committee on Electromagnetic Safety). 2002. IEEE Standard for Safety
 Levels with Respect to Human Exposure to Electromagnetic Fields 0 to 3 kHz C95. 6 2002. Piscataway, NJ: IEEE.

- ICNIRP (International Commission on Non-Ionizing Radiation Protection). 2010. Guidelines for
 limiting exposure to time-varying electric and magnetic fields (1 Hz to 100 kHz). Health
 Physics, 2010.
- 4 IEEE (Institute of Electrical and Electronics Engineers). 1971. *Radio Noise Design Guide for* 5 *High Voltage Transmission Lines*. IEEE Radio Noise Subcommittee Report-Working
 6 Group No. 3. Paper 70TP631-PWR.
- IEEE. 1986. IEEE Standard Procedures for Measurement of Radio Noise from Overhead Power
 Lines and Substations. ANSI/IEEE Std. 430-1986, New York, NY. (see also)
 IEEE Committee Report. March/April 1971. Radio Noise Design Guide for High Voltage
 Transmission Lines. *IEEE Transactions on Power Apparatus and Systems, PAS-90* (No.
 2, March/April):833-842.
- Lee, J.M., K.S. Pierce, C.A. Spiering, R.D. Stearns, and G. Van Ginhoven. 1996. Electrical and
 biological effects of transmission lines: a review. Bonneville Power Administration,
 Portland, Oregon. December.
- Lee, J.M., Stormshak, F., Thompson, J., Hess, D.L., and Foster, D.L. 1995. Melatonin and
 Puberty in Female Lambs Exposed to EMF: A Replicate Study. *Bioelectromagnetics* 16(2):119–123.
- Lee, J.M., F. Stormshak, J. Thompson, P. Thinesen, L. Painter, B. Olenchek, D. Hess, and R.
 Forbes. 1993. Melatonin Secretion and Puberty in Female Lambs Exposed to
 Environmental Electric and Magnetic Fields. *Biology of Reproduction* 49(4):857–864.
- Medtronic. 2006. Technical Memo Regarding Electromagnetic Compatibility (EMC) and
 Electromagnetic Interference (EMI). p. 2.
- National Academy of Sciences. 1999. Research on POWER-FREQUENCY FIELDS, Completed
 Under the Energy Policy Act of 1992, Committee to Review the Research Activities
 Completed Under the Energy Policy Act of 1992, Commission on Life Sciences, National
 Research Council, National Academy Press, Washington, D.C.
- NESC (National Electric Safety Code). 2012. National Electrical Safety Code. 2012 ed. Institute
 of Electrical and Electronics Engineers, Inc., New York, NY.
- NIEHS (National Institute of Environmental Health Sciences). 1998. Assessment of health
 effects from exposure to power-line frequency electric and magnetic fields: Working
 Group Report. NIH Publication No. 98-3981. Research Triangle Park, NC: National
 Institute of Environmental Health Sciences of the U.S. National Institutes of Health.
- NIEHS. 1999. Health effects from exposure to power line frequency electric and magnetic fields.
 NIH; National Institute of Health; NIH No. 99-4493; Research Triangle Park, NC.
- NRC (National Research Council). 1997. An evaluation of the U.S. Navy's Extremely Low
 Frequency Communications System Ecological Monitoring Program. National Academy
 Press, Washington, D.C.
- NRPB (National Radiological Protection Board of Great Britain). 2001. Response statement of
 the NRPB: ELF electromagnetic fields and the risk of cancer. National Radiological
 Protection Board, Chilton, Dicot, Oxon, Volume 12, No.1, ISNB 0-859951-456-0.

41 NRPB. 2004. Review of the Scientific Evidence for Limiting Exposure to Electromagnetic Fields 42 (0-300 GHz) National Radiological Protection Board, Volume 15, No 3.

- Picton, H.D., J.E. Canfield, and G.P. Nelson. 1985. The impact of a 500 kV transmission line
 upon the North Boulder Winter Elk Range. U.S. Forest Service Contract 53-0398-30E-3.
- Silva, M., and R. Olsen. 2002. Use of Global Positioning System (GPS) Receivers Under
 Power-Line Conductors. *IEEE Transactions on Power Delivery* 17: 938–944.
- Stormshak, F., T.D. Bracken, M. Carey, V. Chartier, L. Dickson, R. Forbes, A. Hall, P. Havens,
 D. Hess, S. Krippaehne, J. Lee, B. Ogden, B. Olenchek, L. Painter, K. Rowe, R. Stearns,
 P. Thinesen, and J. Thompson. 1992. Joint HVAC Transmission EMF Environmental
 Study: Final Report on Experiment 1. Bonneville Power Administration, Contract # DEB179-90BPO4293, Portland, Oregon. May.
- Thompson, J.M., F. Stormshak, J.M. Lee, D. Hess, and L. Painter. 1995. Cortisol secretion and
 growth in ewe lambs chronically exposed to electric and magnetic fields of a 60-Hertz
 500 kilovolt AC transmission line. *Journal of Animal Science* 73(11):3274–3280.
- Trinh, G.N. 2012. Chapter 16, Corona and Noise. In: *Electric Power Generation, Transmission, and Distribution.* 3rd Edition edited by Leonard L. Grigsby. CRC Press, Taylor & Francis
 Group LLC, Boca Raton, FL. ISBN: 9781439856284.

ATTACHMENT AA-1 EMF ENVIRO MODELING RESULTS

B2H50003

RESULTS OF ENVIRO PROGRAM

Single Circuit, 1,575 amp, 550-kV, Lattice Structure at 5,000 ft elevation. Part 1: From Centerline to 3,100 ft horizontally.

***************************************	*******					
* BUNDLE INFORMATION *						
BNDLCI RCVOLTAGECURRENT#COORDI NATES#(KV)(KV)(DEG)(AMPS)(DEG)COND(FT)***********************************	PHASE					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	A B C					
* MINIMUM GROUND CLEARANCE = 34.500 FT.	*					

* * SUBCONDUCTOR INFORMATION - IRREGULAR BUNDLES * * BNDL COORDINATES # X Y OIAMETER DC RESIST. AC RESIST. AC REAC (IN) (IN) (IN) (IN) (IN) (OHMS/MI) (OHMS/	**** T.					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	00 00 00 00 00 00 00					

BNDL # Type ACrms PEAK(+) PEAK(-)						
1 AC 17.14 24.24 -24.24 2 AC 16.18 22.88 -22.88 3 AC 17.14 24.24 -24.24						
* * * * * * * * * * * * * * * * * * *						

Page 1

* at *	t 3.28	B; RIC FIELD PROI feet above gro	ound	*	
DISTANCE (feet) (meters)	FIELD (kV/m)	MINOR/MAJOR ELLIPSE AXES (ratio)	VERTICAL (kV/m)	HORIZONTAL (kV/m)	SPACE POTENTI AL (KV)
$\begin{array}{c} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	$\begin{array}{c} 3.\ 757\\ 5.\ 665\\ 8.\ 306\\ 8.\ 943\\ 7.\ 626\\ 5.\ 695\\ 4.\ 040\\ 2.\ 858\\ 2.\ 065\\ 1.\ 541\\ 1.\ 189\\ .\ 948\\ .\ 777\\ .\ 653\\ .\ 558\\ .\ 485\\ .\ 426\end{array}$	$\begin{array}{c} .381 \\ .141 \\ .039 \\ .021 \\ .026 \\ .032 \\ .036 \\ .039 \\ .040 \\ .039 \\ .040 \\ .039 \\ .040 \\ .039 \\ .036 \\ .033 \\ .030 \\ .026 \\ .023 \\ .020 \\ .018 \\ .016 \\ .014 \\ .012 \\ .011 \\ .010 \\ .009 \\ .008 \\ .016 \\ .014 \\ .012 \\ .011 \\ .010 \\ .009 \\ .008 \\ .007 \\ .006 \\ .005 \\ .007 \\ .006 \\ .005 \\ .007 \\ .006 \\ .005 \\ .007 \\ .007 \\ .006 \\ .005 \\ .007 \\ .007 \\ .006 \\ .005 \\ .007 \\ .007 \\ .007 \\ .006 \\ .005 \\ .007 \\ .002 \\ .002 \\ .002 \\ .002 \\ .002 \\ .002 \\ .001 \\ .001 \\ .001 \end{array}$	$\begin{array}{c} 3.\ 753\\ 5.\ 576\\ 8.\ 283\\ 8.\ 941\\ 7.\ 603\\ 5.\ 663\\ 4.\ 014\\ 2.\ 840\\ 2.\ 055\\ 1.\ 534\\ 1.\ 186\\ .\ 946\\ .\ 776\\ .\ 652\\ .\ 558\\ .\ 484\\ .\ 426\end{array}$	$\begin{array}{c} 1.\ 440\\ 1.\ 281\\ .\ 691\\ .\ 246\\ .\ 617\\ .\ 626\\ .\ 479\\ .\ 332\\ .\ 224\\ .\ 152\\ .\ 105\\ .\ 074\\ .\ 054\\ .\ 040\\ .\ 031\\ .\ 024\\ .\ 019\end{array}$	$\begin{array}{c} 3.\ 773\\ 5.\ 550\\ 8.\ 198\\ 8.\ 864\\ 7.\ 580\\ 5.\ 671\\ 4.\ 029\\ 2.\ 852\\ 2.\ 063\\ 1.\ 539\\ 1.\ 189\\ .\ 948\\ .\ 777\\ .\ 652\\ .\ 558\\ .\ 485\\ .\ 426\end{array}$

			B2F	150003	
$\begin{array}{c} 560. \ 0\\ 575. \ 0\\ 590. \ 0\\ 605. \ 0\\ 620. \ 0\\ 635. \ 0\\ 650. \ 0\\ 645. \ 0\\ 710. \ 0\\ 725. \ 0\\ 740. \ 0\\ 755. \ 0\\ 770. \ 0\\ 755. \ 0\\ 800. \ 0\\ 815. \ 0\\ 830. \ 0\\ 845. \ 0\\ 845. \ 0\\ 845. \ 0\\ 845. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 1010. \ 0\\ 1025. \ 0\\ 1040. \ 0\\ 1145. \ 0\\ 1145. \ 0\\ 1145. \ 0\\ 1225. \ 0\\ 1225. \ 0\\ 1235. \ 0\\ 1245. \ 0\\ 1255. \ 0\\ 1255. \ 0\\ 1255. \ 0\\ 1265. \ 0\\ 1265. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1295. \ 0\\ 1400. \ 0\\ 1455. \ 0\\ 1490. \ 0\\ 14$	$\begin{array}{c} 170.\ 69\\ 175.\ 26\\ 179.\ 83\\ 184.\ 40\\ 188.\ 98\\ 193.\ 55\\ 198.\ 12\\ 202.\ 69\\ 207.\ 26\\ 211.\ 84\\ 216.\ 41\\ 220.\ 98\\ 225.\ 55\\ 230.\ 12\\ 234.\ 70\\ 239.\ 27\\ 243.\ 84\\ 248.\ 41\\ 252.\ 98\\ 257.\ 56\\ 262.\ 13\\ 262.\ 13\\ 262.\ 13\\ 298.\ 70\\ 303.\ 28\\ 307.\ 85\\ 312.\ 42\\ 284.\ 99\\ 289.\ 56\\ 294.\ 13\\ 298.\ 70\\ 303.\ 28\\ 307.\ 85\\ 312.\ 42\\ 284.\ 99\\ 289.\ 56\\ 294.\ 13\\ 298.\ 70\\ 303.\ 28\\ 307.\ 85\\ 312.\ 42\\ 349.\ 00\\ 353.\ 57\\ 358.\ 14\\ 362.\ 71\\ 355.\ 28\\ 344.\ 42\\ 349.\ 00\\ 353.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 413.\ 00\\ 417.\ 58\\ 422.\ 15\\ 426.\ 72\\ 435.\ 86\\ 440.\ 41\\ 45.\ 01\\ 445.\ 01\\ $	$\begin{array}{c} . 038 \\ . 036 \\ . 034 \\ . 033 \\ . 031 \\ . 030 \\ . 028 \\ . 027 \\ . 026 \\ . 025 \\ . 024 \\ . 023 \\ . 022 \\ . 021 \\ . 020 \\ . 020 \\ . 020 \\ . 020 \\ . 019 \\ . 018 \\ . 018 \\ . 017 \\ . 016 \\ . 016 \\ . 015 \\ . 015 \\ . 015 \\ . 014 \\ . 013 \\ . 013 \\ . 013 \\ . 013 \\ . 013 \\ . 013 \\ . 013 \\ . 013 \\ . 013 \\ . 014 \\ . 014 \\ . 014 \\ . 014 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 010 \\ . 009 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 006 \\$. 001 . 000 . 000	$\begin{array}{c} . 038 \\ . 036 \\ . 034 \\ . 033 \\ . 031 \\ . 030 \\ . 028 \\ . 027 \\ . 026 \\ . 025 \\ . 024 \\ . 023 \\ . 022 \\ . 021 \\ . 020 \\ . 020 \\ . 020 \\ . 019 \\ . 018 \\ . 017 \\ . 016 \\ . 015 \\ . 016 \\ . 015 \\ . 017 \\ . 016 \\ . 015 \\ . 017 \\ . 016 \\ . 015 \\ . 017 \\ . 016 \\ . 015 \\ . 017 \\ . 016 \\ . 015 \\ . 017 \\ . 016 \\ . 015 \\ . 017 \\ . 016 \\ . 017 \\ . 017 \\ . 016 \\ . 016 \\ . 016 \\ . 016 \\ . 016 \\ . 016 \\ . 016 \\ . 016 \\ . 016 \\ . 017 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 010 \\ . 010 \\ . 010 \\ . 010 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 006 \\ . 006 \\ . 006 \\ . 006 \\ . 006 \\ . 006 \\ . 006 \\ . 006 \\ . 005 \\ age \\ 3 \end{array}$	$\begin{array}{c} . 038 \\ . 036 \\ . 034 \\ . 033 \\ . 031 \\ . 030 \\ . 028 \\ . 027 \\ . 026 \\ . 025 \\ . 024 \\ . 023 \\ . 022 \\ . 021 \\ . 020 \\ . 020 \\ . 019 \\ . 018 \\ . 017 \\ . 016 \\ . 016 \\ . 015 \\ . 017 \\ . 016 \\ . 015 \\ . 014 \\ . 013 \\ . 013 \\ . 013 \\ . 013 \\ . 013 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 011 \\ . 010 \\ . 010 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 009 \\ . 000 \\$

			B2F	150003	
$\begin{array}{c} 1505. \ 0\\ 1520. \ 0\\ 1535. \ 0\\ 1550. \ 0\\ 1550. \ 0\\ 1550. \ 0\\ 1550. \ 0\\ 1550. \ 0\\ 1595. \ 0\\ 1640. \ 0\\ 1640. \ 0\\ 1655. \ 0\\ 1670. \ 0\\ 1670. \ 0\\ 175. \ 0\\ 1700. \ 0\\ 1715. \ 0\\ 1745. \ 0\\ 1745. \ 0\\ 1745. \ 0\\ 1745. \ 0\\ 1790. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1805. \ 0\\ 1910. \ 0\\ 1925. \ 0\\ 1940. \ 0\\ 1955. \ 0\\ 2005. \ 0\\ 2050. \ 0\\ 2050. \ 0\\ 2050. \ 0\\ 2255. \ 0\\ 2350. \ 0\\ 2350. \ 0\\ 2355. \ 0\\ 2350. \ 0\\ 2355. \ 0\\ 2355. \ 0\\ 2550.$	$\begin{array}{c} 458.\ 72\\ 463.\ 30\\ 467.\ 87\\ 472.\ 44\\ 477.\ 01\\ 481.\ 58\\ 486.\ 16\\ 490.\ 73\\ 495.\ 30\\ 499.\ 87\\ 504.\ 44\\ 509.\ 02\\ 513.\ 59\\ 522.\ 73\\ 527.\ 30\\ 531.\ 88\\ 536.\ 45\\ 541.\ 02\\ 545.\ 59\\ 550.\ 16\\ 554.\ 74\\ 597.\ 31\\ 563.\ 88\\ 568.\ 45\\ 573.\ 02\\ 577.\ 60\\ 582.\ 17\\ 586.\ 74\\ 591.\ 31\\ 595.\ 88\\ 605.\ 03\\ 607.\ 22\\ 632.\ 46\\ 605.\ 32\\ 607.\ 56\\ 609.\ 60\\ 617.\ 22\\ 622.\ 94\\ 670.\ 56\\ 678.\ 18\\ 603.\ 42\\ 701.\ 04\\ 708.\ 66\\ 716.\ 28\\ 723.\ 90\\ 731.\ 52\\ 739.\ 14\\ 746.\ 76\\ 754.\ 38\\ 762.\ 00\\ 769.\ 62\\ 777.\ 24\\ 784.\ 86\\ 792.\ 48\\ 800.\ 102\\ 777.\ 24\\ 784.\ 86\\ 792.\ 48\\ 800.\ 102\\ 777.\ 24\\ 784.\ 86\\ 792.\ 48\\ 800.\ 72\\ 777.\ 24\\ 784.\ 86\\ 792.\ 48\\ 800.\ 102\\ 815.\ 34\\ 800.\ 58\\ 830.\ $	$\begin{array}{c} . \ 005 \\ . \ 005 \\ . \ 005 \\ . \ 005 \\ . \ 005 \\ . \ 005 \\ . \ 005 \\ . \ 005 \\ . \ 005 \\ . \ 004 \\ . \ 003 \\ . \ 002 \\$. 005 . 004 . 003 . 002 <	$\begin{array}{c} . \ 005 \\ . \ 004 \\ . \ 003 \\ . \ 002 \\$

			B2H	150003		
2750.0	838.20	. 002	. 000	. 002	. 000	. 002
2775.0	845.82	. 002	. 000	. 002	. 000	. 002
2800.0	853.44	. 002	. 000	. 002	. 000	. 002
2825.0	861.06	. 002	. 000	. 002	. 000	. 002
2850.0	868.68	. 001	. 000	. 001	. 000	. 001
2875.0	876.30	. 001	. 000	. 001	. 000	. 001
2900.0	883.92	. 001	. 000	. 001	. 000	. 001
2925.0	891.54	. 001	. 000	. 001	. 000	. 001
2950.0	899.16	. 001	. 000	. 001	. 000	. 001
2975.0	906.78	. 001	. 000	. 001	. 000	. 001
3000.0	914.40	. 001	. 000	. 001	. 000	. 001
3025.0	922.02	. 001	. 000	. 001	. 000	. 001
3050.0	929.64	. 001	. 000	. 001	. 000	. 001
3075.0	937.26	. 001	. 000	. 001	. 000	. 001
3100. 0	944.88	. 001	. 000	. 001	. 000	. 001
0						

Ŷ

AC CURRENTS IN EACH BUNDLE:

BNDI	AC Cl	JRRENTS (Ampe	BUNDLE POSITION		
BNDL #	REAL	I MAGI NARY	TOTAL	X-COORD	Y-COORD
1 2 3 ♀	1575.00 -787.50 -787.50	. 00 1363. 99 -1363. 99	1575.00 1575.00 1575.00	-23.00 .00 23.00	34.50 66.00 34.50

LATERA DISTANC (feet) (me	Έ	MAJOR AXI S	MI NOR/ MAJOR	AGNETIC FI VERTICAL F COMP (mG)	IORI ZONTAL	
$\begin{array}{c} & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & &$	$\begin{array}{c} . 00\\ 3. 05\\ 6. 10\\ 9. 14\\ 12. 19\\ 15. 24\\ 18. 29\\ 21. 34\\ 24. 38\\ 27. 43\\ 30. 48\\ 33. 53\\ 30. 48\\ 33. 53\\ 36. 58\\ 39. 62\\ 42. 67\\ 45. 72\\ 48. 77\\ 51. 82\\ 54. 86\end{array}$	$\begin{array}{c} 269.\ 85\\ 266.\ 09\\ 249.\ 50\\ 215.\ 98\\ 173.\ 36\\ 133.\ 90\\ 102.\ 90\\ 80.\ 01\\ 63.\ 31\\ 51.\ 02\\ 41.\ 83\\ 34.\ 82\\ 29.\ 38\\ 25.\ 10\\ 21.\ 67\\ 18.\ 88\\ 16.\ 59\\ 14.\ 69\\ 13.\ 10\\ \end{array}$	$\begin{array}{c} . 186 \\ . 197 \\ . 230 \\ . 276 \\ . 327 \\ . 376 \\ . 420 \\ . 460 \\ . 495 \\ . 525 \\ . 551 \\ . 573 \\ . 593 \\ . 610 \\ . 624 \\ . 637 \\ . 649 \\ . 658 \\ . 667 \end{array}$	$\begin{array}{c} 245.\ 97\\ 170.\ 48\\ 83.\ 02\\ 59.\ 11\\ 70.\ 54\\ 70.\ 78\\ 63.\ 72\\ 54.\ 84\\ 46.\ 49\\ 39.\ 33\\ 33.\ 40\\ 28.\ 56\\ 24.\ 61\\ 21.\ 37\\ 18.\ 70\\ 16.\ 48\\ 14.\ 62\\ 13.\ 05\\ \end{array}$	$\begin{array}{c} 51.\ 04\\ 114.\ 20\\ 190.\ 99\\ 208.\ 12\\ 172.\ 53\\ 124.\ 43\\ 86.\ 30\\ 60.\ 80\\ 44.\ 51\\ 34.\ 04\\ 27.\ 08\\ 22.\ 25\\ 18.\ 74\\ 16.\ 08\\ 13.\ 99\\ 12.\ 32\\ 10.\ 94\\ 9.\ 78\\ 8.\ 81\\ \end{array}$	$\begin{array}{c} 274.\ 47\\ 271.\ 19\\ 256.\ 01\\ 224.\ 07\\ 182.\ 38\\ 143.\ 04\\ 111.\ 62\\ 88.\ 07\\ 70.\ 63\\ 57.\ 62\\ 47.\ 75\\ 40.\ 13\\ 34.\ 16\\ 29.\ 40\\ 25.\ 54\\ 22.\ 39\\ 19.\ 78\\ 17.\ 59\\ 15.\ 74\\ \end{array}$
190. 0	57.91	11.75	. 674	11.72 Dago 5	7.97	14.17

			B2H50003		
3075.0	* * * *	. 12 . 00 . 12 . 00 . 12 . 07 . 12 . 07 . 12 . 07 . 12 . 07 . 11 . 07 . 11 . 07 . 11 . 07 . 11 . 07 . 10 . 08 . 10 . 09 . 10 . 10 . 10 . 17 . 09 . 17 . 00 . 27 . 07 . 24 . 06 . 26 . 05 . 27 . 05 . 27	05 . 12 03 . 12 11 . 12 18 . 12 26 . 12 38 . 11 50 . 11 52 . 11 74 . 11 35 . 10 96 . 10 97 . 10 96 . 10 97 . 09 94 . 09 54 . 09 55 . 09 77 . 09 34 . 08 97 . 09 74 . 07 54 . 09 54 . 09 54 . 08 97 . 08 98 . 08 99 . 08 55 . 07 33 . 07 36 . 07 40 . 06 57 . 05 75 . 05 75 . 05 75 . 05 75 .	k k k k	$\begin{array}{c} . \ 12 \\ . \ 12 \\ . \ 12 \\ . \ 12 \\ . \ 12 \\ . \ 12 \\ . \ 11 \\ . \ 11 \\ . \ 11 \\ . \ 11 \\ . \ 11 \\ . \ 10 \\ . \ 10 \\ . \ 09 \\ . \ 00 \\ . \ 00 \\ . \ 06 \\ . \ 0$
BNDL #	Туре	Summer Fair		L50 RAI N	
1 2	AC AC	-60.82 -64.26	-45.56 -47.60 Page 8	-49.33 -52.27	

-49.33

*			4
* AUDI B	LE NOISE		7
* (other	methods)		,
*			,
* Altitude	5000.	ft	,
*			,

LATERAL DISTANCE (feet) (meters)	< FAIR WEATHER dB(A)	BPA ME L5 RAIN dB(A)	THOD L50 RAIN dB(A)	Ldn dB(A)	<- CRIE AVERAGE FAIR dB(A)	EdF L5 RAI N dB(A)	ENEL L5 RAI N dB(A)	I REQ L5 RAI N dB(A)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 32.8\\ 32.8\\ 32.5\\ 31.9\\ 31.2\\ 30.5\\ 29.9\\ 29.3\\ 28.8\\ 27.4\\ 27.0\\ 26.7\\ 26.3\\ 26.0\\ 25.7\\ 25.4\\ 27.4\\ 24.2\\ 24.9\\ 24.7\\ 24.4\\ 24.2\\ 24.0\\ 23.8\\ 23.4\\ 23.3\\ 23.1\\ 22.9\\ 22.8\\ 22.6\\ 22.4\\ 22.3\\ 22.2\\ 22.0\\ 21.9\\ 21.8\\ 21.6\\ 21.5\\ 21.4\\ 21.3\\ 21.1\\ 0\end{array}$	$\begin{array}{c} 61.3\\ 3.3\\ 61.3\\ 61.3\\ 61.6\\ 60.4\\ 7\\ 9.5\\ 55.5$	$\begin{array}{c} 57.8885925935407307429974208643198643109865546.59255555555555555555555555555555555555$.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $			$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $

460.0140.2120.849.345.8470.0143.2620.749.245.7480.0146.3020.649.145.6490.0149.3520.549.045.5500.0152.4020.448.945.4515.0156.9720.248.745.2530.0161.5420.148.645.1545.0166.1220.048.545.0560.0170.6919.848.344.8575.0175.2619.748.244.7590.0179.8319.648.144.6605.0184.4019.548.044.5620.0188.9819.347.844.3635.0193.5519.247.744.2650.0198.1219.147.544.0680.0207.2618.947.443.9695.0211.8418.847.143.670.0234.7018.346.843.3755.0220.9818.647.143.6740.0225.5518.547.042.9845.0257.5617.846.342.8860.0262.1317.746.242.7875.0266.7017.646.443.1815.0248.4118.046.543.0830.0252.9817.746.242.7945.0275.8417.546.042.5905.0275.84 <td< th=""></td<>
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $

Page 10

$\begin{array}{c} 1400.\ 0\\ 1415.\ 0\\ 1430.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1460.\ 0\\ 1475.\ 0\\ 1505.\ 0\\ 1505.\ 0\\ 1550.\ 0\\ 1550.\ 0\\ 1565.\ 0\\ 1565.\ 0\\ 1565.\ 0\\ 1565.\ 0\\ 1640.\ 0\\ 1655.\ 0\\ 1670.\ 0\\ 1645.\ 0\\ 1775.\ 0\\ 1760.\ 0\\ 1775.\ 0\\ 1760.\ 0\\ 1775.\ 0\\ 1760.\ 0\\ 1775.\ 0\\ 1760.\ 0\\ 1880.\ 0\\ 1880.\ 0\\ 1880.\ 0\\ 1885.\ 0\\ 1880.\ 0\\ 1895.\ 0\\ 1910.\ 0\\ 1925.\ 0\\ 1970.\ 0\\ 1925.\ 0\\ 1970.\ 0\\ 1925.\ 0\\ 2025.\ 0\\ 2025.\ 0\\ 2025.\ 0\\ 2025.\ 0\\ 2025.\ 0\\ 2025.\ 0\\ 2255.\ 0\\ 2350.\ 0\\ 2350.\ 0\\ 2350.\ 0\\ 2350.\ 0\\ 2450.\ 0\\ 2450.\ 0\\ 2450.\ 0\\ 2525.\ 0\\ 2505.\ 0\\$	1415. 0 1430. 0
$\begin{array}{c} 426.\ 72\\ 431.\ 29\\ 435.\ 86\\ 440.\ 44\\ 445.\ 01\\ 449.\ 58\\ 454.\ 15\\ 458.\ 72\\ 463.\ 30\\ 467.\ 87\\ 472.\ 44\\ 477.\ 01\\ 481.\ 58\\ 486.\ 16\\ 490.\ 30\\ 499.\ 87\\ 599.\ 02\\ 513.\ 59\\ 509.\ 02\\ 513.\ 59\\ 509.\ 02\\ 513.\ 59\\ 522.\ 73\\ 527.\ 30\\ 531.\ 88\\ 536.\ 45\\ 573.\ 02\\ 577.\ 60\\ 554.\ 74\\ 591.\ 31\\ 563.\ 88\\ 568.\ 45\\ 573.\ 02\\ 577.\ 60\\ 582.\ 17\\ 586.\ 74\\ 591.\ 31\\ 595.\ 88\\ 568.\ 45\\ 573.\ 02\\ 577.\ 60\\ 582.\ 17\\ 586.\ 74\\ 591.\ 31\\ 595.\ 88\\ 568.\ 45\\ 573.\ 02\\ 577.\ 60\\ 582.\ 17\\ 586.\ 74\\ 591.\ 31\\ 595.\ 88\\ 605.\ 03\\ 609.\ 60\\ 617.\ 22\\ 624.\ 84\\ 640.\ 08\\ 647.\ 70\\ 655.\ 32\\ 607.\ 56\\ 678.\ 18\\ 685.\ 80\\ 693.\ 42\\ 701.\ 04\\ 786.\ 68\\ 723.\ 90\\ 731.\ 52\\ 739.\ 14\\ 746.\ 76\\ 754.\ 38\\ 762.\ 02\\ 769.\ 62\\ 790.\ 62\\ 790.\ 62\\$	435.86
$\begin{array}{c} 15.22\\ 15.22\\ 1.5.10\\ 0.99\\ 8.87\\ 7.7\\ 6.65\\ 5.4\\ 4.3\\ 3.22\\ 2.1\\ 1.5.\\ 1.5.\\ 1.5.\\ 1.5.\\ 1.5.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.4.\\ 1.3.\\$	15.2
$\begin{array}{l} 43.877665554433.2221110099887776665555443332221110099887776665554433.32221110099887776665554433.3222111009988777666555544333222111009988777666555544322222211100998877766655554432222221110099887776665555443222222222222222222222222222222$	43.7
$\begin{array}{c} 40.\ 2\\ 40.\ 1\\ 40.\ 0\\ 9\\ 39.\ 9\\ 39.\ 8\\ 39.\ 7\\ 39.\ 7\\ 39.\ 6\\ 6\\ 5\\ 5\\ 4\\ 4\\ 39.\ 9\\ 9\\ 8\\ 8\\ 7\\ 7\\ 7\\ 7\\ 6\\ 6\\ 5\\ 5\\ 4\\ 3\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$	40.3 40.3 40.2 40.2
00000000000000000000000000000000000000	. 0 . 0
	. 0 . 0
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $. 0 . 0
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $. 0 . 0
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $. 0 . 0
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $. 0

				B2H	50003					
2550.0	777.24	12.3	40.8	37.3	. 0	. 0	. 0	. 0	. 0	. 0
2575.0	784.86	12.3	40.8	37.3	. 0	. 0	. 0	. 0	. 0	. 0
2600.0	792.48	12.2	40.7	37.2	. 0	. 0	. 0	. 0	. 0	. 0
2625.0 2650.0	800. 10 807. 72	12. 2 12. 1	40.7	37.2 37.1	. 0	. 0	. 0	. 0	. 0	. 0
2675.0	815.34	12.1	40.6 40.6	37.1	. 0 . 0					
2700.0	822.96	12.1	40.0	37.0	. 0	. 0	. 0	.0	. 0	. 0
2725.0	830.58	12.0	40.5	37.0	. 0	.0	. 0	.0	. 0	. 0
2750.0	838.20	12.0	40.5	37.0	. 0	. 0	. 0	. 0	. 0	. 0
2775.0	845.82	11.9	40.4	36.9	. 0	. 0	. 0	. 0	. 0	. 0
2800.0	853.44	11.9	40.4	36.9	. 0	. 0	. 0	. 0	. 0	. 0
2825.0	861.06	11.8	40.3	36.8	. 0	. 0	. 0	. 0	. 0	. 0
2850.0	868.68	11.8	40.3	36.8	. 0	. 0	. 0	. 0	. 0	. 0
2875.0	876.30	11.7	40.2	36.7	. 0	. 0	. 0	. 0	. 0	. 0
2900.0	883.92	11.7	40.2	36.7	. 0	. 0	. 0	. 0	. 0	. 0
2925.0	891.54	11.6	40.1	36.6	. 0	. 0	. 0	. 0	. 0	. 0
2950.0	899.16	11.6	40.1	36.6	. 0	. 0	. 0	. 0	. 0	. 0
2975.0	906.78	11.6	40.1	36.6	. 0	. 0	. 0	. 0	. 0	. 0
3000.0 3025.0	914. 40 922. 02	11. 5 11. 5	40.0	36.5 36.5	. 0	. 0	. 0	. 0	. 0	. 0
3025.0	922.02 929.64	11.3	40.0 39.9	36. 5 36. 4	. 0 . 0					
3075.0	937.26	11.4	39.9	36.4	. 0	.0	. 0	.0	.0	. 0
3100.0	944.88	11.4	39.9	36.4	. 0	.0	. 0	.0	. 0	.0
0.00.0			. ,	0011	. •	. 0	. 0	. •	. 0	. 0

Audible noise prediction methods do not apply to all line geometries, voltages, or weather conditions. If a prediction method does not apply, the appropriate output data column will be zeros.

B2H50004

RESULTS OF ENVIRO PROGRAM

Single Circuit, 1,575 amp, 550-kV, Lattice Structure at 5,000 ft elevation. Part 2: From Centerline to -3,100 ft horizontally.

* BUNDLE INFORMATION *								
BNDL CI RC VOLTAGE VOLTA # # (kV) *****	E LOAD	CURRENT # ANGLE OF (DEG) CONE	COORDI X (FT)	NATES Y (FT)	PHASE			
$ \begin{vmatrix} 1 & & 1 & & 550.0 & & . \\ 2 & & 1 & 550.0 & 240. \\ 3 & & 1 & 550.0 & 120. \\$		$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-23.0 .0 23.0	34.5 66.0 34.5	A B C ******			
* MINIMUN	I GROUND CLEA	RANCE = 34	. 500 FT.		*			
************************				* * * * * * * * * *	* * * * * * * * *			
**************************************	OR INFORMATI	**************************************	BUNDLES		*			
			RESIST.	AC REA				
# (IN) (((OH	MS/MI) (OHMS/MI)	(OHMS/M	l) ****			
* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * *	* * * * * * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * *	* * * * *			
****	* * * * * * * * * * * * *	* * * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * *	* * * * *			
* SUBCONDUCTO		N – I RREGULAF			*			
BNDL COORDINATES	* * * * * * * * * * * * * *	* * * * * * * * * * * * * *	*********	* * * * * * * * * *	****			
# X Y (IN) (IN)	DI AMETER (I N)	DC RESIST. (OHMS/MI)	AC RESIST. (OHMS/MI)	AC REA				
1 .00 .000 1 10.00 12.500 1 20.00 .000	1. 300 1. 300 1. 300	. 06840 . 06840 . 06840	. 071000 . 071000 . 071000	. 3680 . 3680 . 3680	000			
2 .00 .000 2 10.00 12.500	1.300 1.300	. 06840 . 06840	. 071000 . 071000	. 3680	000			
2 20.00 .000 3 .00 .000 3 10.00 12.500	1. 300 1. 300 1. 300	. 06840 . 06840 . 06840	. 071000 . 071000 . 071000	. 3680	000			
	1.300	. 06840	. 071000	. 368				

* * * * * * * * * * * * * * * * * * *								
* *************************************								
BNDL # Type ACrn	ns PEAK(+)	PEAK(-)						
1 AC 17.1 2 AC 16.1		-24. 24 -22. 88						
3 AC 17.1		-24.24						
♀ ★★★★★★★★★★★★ *	* * * * * * * * * * * * *	* * * * * * * * * * * * *						

Page 1

B2H50004 * AC ELECTRIC FIELD PROFILE * * at 3.28 feet above ground * *								
LATERAL DISTANCE (feet) (meters	MAXIMUM FIELD) (kV/m)	MINOR/MAJOR ELLIPSE AXES (ratio)			SPACE POTENTI AL (KV)			
$\begin{array}{ccccccc} -3100.0 & -944.8 \\ -3075.0 & -937.2 \\ -3050.0 & -929.6 \\ -3025.0 & -922.0 \\ -3000.0 & -914.4 \\ -2975.0 & -906.7 \\ -2950.0 & -899.1 \\ -2925.0 & -891.5 \\ -2900.0 & -883.9 \\ -2875.0 & -876.3 \\ -2800.0 & -853.4 \\ -2775.0 & -845.8 \\ -2750.0 & -838.2 \\ -2725.0 & -830.5 \\ -2700.0 & -822.9 \\ -2675.0 & -815.3 \\ -2650.0 & -807.7 \\ -2625.0 & -800.1 \\ -2600.0 & -792.4 \\ -2575.0 & -784.8 \\ -2550.0 & -777.2 \\ -2525.0 & -769.6 \\ -2500.0 & -762.0 \\ -2475.0 & -784.8 \\ -2550.0 & -774.3 \\ -2445.0 & -746.7 \\ -2425.0 & -769.6 \\ -2500.0 & -724.3 \\ -2475.0 & -754.3 \\ -2475.0 & -739.1 \\ -2400.0 & -731.5 \\ -2375.0 & -723.9 \\ -2350.0 & -716.2 \\ -2325.0 & -708.6 \\ -2300.0 & -701.0 \\ -2275.0 & -693.4 \\ -2250.0 & -678.1 \\ -2000.0 & -670.5 \\ -2175.0 & -662.9 \\ -2150.0 & -647.7 \\ -2100.0 & -640.0 \\ -2075.0 & -632.4 \\ -2055.0 & -678.1 \\ -2000.0 & -670.5 \\ -2175.0 & -632.4 \\ -2050.0 & -647.7 \\ -2100.0 & -605.3 \\ -1970.0 & -600.4 \\ -1955.0 & -595.8 \\ -1940.0 & -591.3 \\ -1925.0 & -586.7 \\ -1910.0 & -582.1 \\ -1880.0 & -573.0 \\ -1865.0 & -568.4 \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} . 000 \\$. 001 . 002 . 003 . 003	$\begin{array}{c} . 000 \\$	$\begin{array}{c} . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 002 \\ . \ 003 \\$			

				B2I	150004		
	-140.0	-42.67	. 545	. 026	. 544	. 029	. 545
	-130.0	-39.62	. 635	. 029	. 634	. 038	. 635
	-120.0	-36.58	. 754	. 032	. 753	. 051	. 754
	-110.0	-33.53	. 916	. 036	. 914	. 070	. 915
	-100.0	-30.48	1.143	. 038	1.139	. 099	1. 142
	-90.0	-27.43	1. 472	. 040	1. 466	. 143	1.471
	-80.0	-24.38	1. 962	. 039	1. 952	. 210	1.960
	-70.0	-21.34	2.702	. 037	2.686	. 312	2.697
	-60.0	-18. 29	3. 811	. 033	3. 786	. 453	3.801
	-50.0	-15.24	5.388	. 027	5.356	. 606	5.367
	-40.0	-12.19	7.312	. 022	7.286	. 641	7.270
	-30.0	-9.14	8.827	. 020	8.823	. 323	8.754
	-20.0	-6.10	8. 579	. 034	8.565	. 562	8.475
	-10.0	-3.05	6. 174	. 111	6. 092	1. 213	6.054
_	. 0	. 00	3.757	. 381	3.753	1. 440	3.773

Ŷ

AC CURRENTS IN EACH BUNDLE:

BNDI	AC Cl	JRRENTS (Ampe	eres)	BUNDLE POSIT			
BNDL #	REAL	I MAGI NARY	TOTAL	X-COORD	Y-COORD		
1	1575.00	. 00	1575.00	-23.00	34.50		
2	-787.50	1363.99	1575.00	. 00	66.00		
3	-787.50	-1363.99	1575.00	23.00	34.50		
4							

*					*
*	MA	AGNETIC FIE	LD PROF	I LE	*
*	at	3.28 feet	above	around	*
*				9	*

LATERAL DISTANCE (feet) (meters)	< MAJOR AXIS (mG)		AGNETIC FI VERTICAL F COMP (mG)	IORI ZONTAL	RMS ESULTANT (mG)
-3100.0 -944.88 -3075.0 -937.26 -3050.0 -929.64 -3025.0 -922.02 -3000.0 -914.40 -2975.0 -906.78 -2950.0 -899.16 -2925.0 -891.54 -2900.0 -883.92 -2875.0 -876.30 -2850.0 -868.68 -2825.0 -861.06 -2800.0 -853.44 -2775.0 -845.82 -2775.0 -845.82 -2750.0 -838.20 -2725.0 -830.58 -2700.0 -822.96 -2675.0 -815.34	. 10 . 10 . 10 . 10 . 10 . 10 . 11 . 11	. 438 . 437 . 436 . 436 . 435 . 434 . 432 . 431 . 430 . 428 . 426 . 424 . 422 . 420 . 418 . 415 . 413	. 07 . 07 . 07 . 07 . 07 . 07 . 07 . 07	. 08 . 08 . 09 . 09 . 09 . 09 . 09 . 09 . 09 . 09	. 10 . 11 . 11 . 11 . 11 . 11 . 11 . 12 . 12
-2650.0 -807.72 -2625.0 -800.10	. 12	. 410 . 407	. 07 . 07	. 11 . 11	. 13 . 14

$\begin{array}{c} -2600.0\\ -2575.0\\ -2550.0\\ -2550.0\\ -2525.0\\ -2500.0\\ -2475.0\\ -2450.0\\ -2425.0\\ -2425.0\\ -2375.0\\ -2350.0\\ -2375.0\\ -2350.0\\ -225.0\\ -2250.0\\ -2250.0\\ -2250.0\\ -2175.0\\ -2150.0\\ -2150.0\\ -2150.0\\ -2150.0\\ -2075.0\\ -2050.0\\ -2075.0\\ -2050.0\\ -2075.0\\ -2050.0\\ -1970.0\\ -1955.0\\ -1970.0\\ -1955.0\\ -1970.0\\ -1955.0\\ -1970.0\\ -1955.0\\ -1970.0\\ -1955.0\\ -1970.0\\ -1975.0\\ -1970.0\\ -1975.0\\ -1970.0\\ -1975.0\\ -1970.0\\ -1975.0\\ -1970.0\\ -175.0\\ -1745.0\\ -1885.0\\ -1885.0\\ -1805.0\\ -1775.0\\ -1760.0\\ -1775.0\\ -1760.0\\ -1775.0\\ -1760.0\\ -1775.0\\ -1760.0\\ -1775.0\\ -1760.0\\ -1655.0\\ -1670.0\\ -1655.0\\ -1550.0\\ -1550.0\\ -1550.0\\ -1550.0\\ -1520.0$	-792.48 -784.86 -777.24 -769.62 -762.00 -754.38 -746.76 -739.14 -731.52 -723.90 -716.28 -708.66 -701.04 -693.42 -685.80 -672.32 -640.08 -662.94 -655.32 -647.70 -640.08 -624.84 -617.22 -609.60 -605.03 -600.46 -595.88 -591.31 -586.74 -582.17 -577.60 -573.02 -568.45 -563.88 -559.31 -554.74 -557.30 -554.74 -557.30 -553.88 -559.31 -554.74 -553.88 -559.31 -554.74 -553.88 -559.31 -554.74 -557.302 -568.45 -531.88 -527.30 -522.73 -518.16 -513.59 -509.02 -504.44 -499.87 -490.73 -490.73 -486.16 -481.58 -477.01 -472.44 -463.300	$\begin{array}{c} . \ . \ . \ . \ . \ . \ . \ . \ . \ . $	$\begin{array}{c} 403 \\ 400 \\ 396 \\ 393 \\ 388 \\ 384 \\ 380 \\ 375 \\ 370 \\ 364 \\ 359 \\ 353 \\ 347 \\ 340 \\ 333 \\ 326 \\ 311 \\ 303 \\ 294 \\ 285 \\ 276 \\ 285 \\ 245 \\ 237 \\ 225 \\ 211 \\ 204 \\ 196 \\ 285 \\ 245 \\ 239 \\ 225 \\ 211 \\ 204 \\ 196 \\ 189 \\ 181 \\ 173 \\ 165 \\ 189 \\ 181 \\ 173 \\ 165 \\ 189 \\ 181 \\ 173 \\ 165 \\ 189 \\ 211 \\ 204 \\ 196 \\ 189 \\ 181 \\ 173 \\ 165 \\ 189 \\ 211 \\ 204 \\ 196 \\ 189 \\ 181 \\ 173 \\ 165 \\ 088 \\ 081 \\ 075 \\ 088 \\ 081 \\ 075 \\ 068 \\ 081 \\ 075 \\ 069 \\ 063 \\ 054 \\ 051 \\ 046 \\ 045 \\$	$B2H50004 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 06 \\ . 06 \\ . 06 \\ . 06 \\ . 06 \\ . 06 \\ . 06 \\ . 06 \\ . 06 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 03 \\ . 05 \\ . 0$	$\begin{array}{c} . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 13 \\ . 13 \\ . 13 \\ . 13 \\ . 13 \\ . 13 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 15 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 13 \\ . 13 \\ \end{array}$. 14 . 14 . 14 . 14 . 14 . 14 . 14 . 14
-1580.0 -1565.0 -1550.0 -1535.0	-481.58 -477.01 -472.44 -467.87	. 15 . 15 . 15 . 15 . 15	. 051 . 048 . 046 . 045	. 06 . 06 . 06 . 07	. 14 . 14 . 14 . 13	. 15 . 15 . 15 . 15

$\begin{array}{c} -1415. 0\\ -1400. 0\\ -1385. 0\\ -1370. 0\\ -1385. 0\\ -1370. 0\\ -1325. 0\\ -1325. 0\\ -1295. 0\\ -1295. 0\\ -1280. 0\\ -1265. 0\\ -1265. 0\\ -1205. 0\\ -1205. 0\\ -1205. 0\\ -1205. 0\\ -1205. 0\\ -1175. 0\\ -1160. 0\\ -1175. 0\\ -1160. 0\\ -1175. 0\\ -1160. 0\\ -1175. 0\\ -1100. 0\\ -1040. 0\\ -1045. 0\\ -1040. 0\\ -1055. 0\\ -1070. 0\\ -1055. 0\\ -1070. 0\\ -1055. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -975. 0\\ -770. 0\\ -775. 0\\ -770. 0\\ -775. 0\\ -770. 0\\ -775. 0\\ -770. 0\\ -755. 0\\ -770. 0\\ -755. 0\\ -770. 0\\ -755. 0\\ -740. 0\\ -695. 0\\ -605. 0\\ -605. 0\\ -605. 0\\ -5575. 0\\ -550. 0\\ -5575. 0\\ -550. 0\\ -550. 0\\ -5575. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -555. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -550. 0\\ -555. 0\\ -555. 0\\ -550. 0\\ -555$	$\begin{array}{c} -431.\ 29\\ -426.\ 72\\ -422.\ 15\\ -417.\ 58\\ -413.\ 00\\ -408.\ 43\\ -403.\ 86\\ -399.\ 29\\ -394.\ 72\\ -390.\ 72\\ -390.\ 72\\ -385.\ 57\\ -385.\ 57\\ -385.\ 57\\ -385.\ 57\\ -385.\ 14\\ -353.\ 57\\ -367.\ 28\\ -367.\ 28\\ -367.\ 28\\ -367.\ 28\\ -367.\ 28\\ -339.\ 85\\ -335.\ 28\\ -330.\ 71\\ -326.\ 14\\ -321.\ 56\\ -316.\ 99\\ -312.\ 42\\ -307.\ 85\\ -303.\ 28\\ -298.\ 70\\ -294.\ 13\\ -298.\ 70\\ -294.\ 13\\ -289.\ 56\\ -298.\ 70\\ -294.\ 73\\ -289.\ 56\\ -252.\ 98\\ -248.\ 41\\ -239.\ 27\\ -266.\ 70\\ -262.\ 13\\ -257.\ 56\\ -252.\ 98\\ -248.\ 41\\ -239.\ 27\\ -266.\ 70\\ -262.\ 13\\ -257.\ 56\\ -252.\ 98\\ -248.\ 41\\ -239.\ 27\\ -230.\ 12\\ -225.\ 55\\ -220.\ 98\\ -216.\ 41\\ -211.\ 84\\ -207.\ 26\\ -202.\ 69\\ -198.\ 15\\ -170.\ 69\\ -166.\ 12\\ -161.\ 54\\ -156.\ 97\end{array}$	$\begin{array}{c} . \ 17 \\ . \ 17 \\ . \ 17 \\ . \ 18 \\ . \ 18 \\ . \ 18 \\ . \ 19 \\ . \ 20 \\ . \ 21 \\ . \ 22 \\ . \ 23 \\ . \ 24 \\ . \ 25 \\ . \ 26 \\ . \ 27 \\ . \ 28 \\ . \ 29 \\ . \ 31 \\ . \ 32 \\ . \ 37 \\ . \ 38 \\ . \ 39 \\ . \ 41 \\ . \ 44 \\ . \ 45 \\ . \ 47 \\ . \ 49 \\ . \ 53 \\ . \ 57 \\ . \ 60 \\ . \ 62 \\ . \ 68 \\ . \ 71 \\ . \ 78 \\ . \ 815 \\ . \ 89 \\ . \ 98 \\ 1. \ 09 \\ 1. \ 21 \\ 1. \ 28 \\ . \ 35 \\ 1. \ 09 \\ 1. \ 09 \\ 1. \ 21 \\ 1. \ 28 \\ 1. \ 35 \\ 1. \ 3$	073 .081 .091 .100 .111	$\begin{array}{c} \text{B2H50004}\\ . 11\\ . 11\\ . 12\\ . 12\\ . 13\\ . 14\\ . 14\\ . 15\\ . 16\\ . 16\\ . 17\\ . 18\\ . 18\\ . 19\\ . 20\\ . 21\\ . 22\\ . 23\\ . 24\\ . 25\\ . 27\\ . 28\\ . 29\\ . 30\\ . 31\\ . 32\\ . 34\\ . 35\\ . 36\\ . 38\\ . 39\\ . 41\\ . 42\\ . 44\\ . 46\\ . 38\\ . 39\\ . 41\\ . 42\\ . 44\\ . 46\\ . 48\\ . 50\\ . 52\\ . 54\\ . 57\\ . 59\\ . 62\\ . 64\\ . 67\\ . 70\\ . 73\\ . 77\\ . 81\\ . 84\\ . 89\\ . 93\\ . 98\\ 1.03\\ 1.08\\ 1.14\\ 1.21\\ 1.27\\ 1.35\\ 1.43\\ 1.52\\ \end{array}$	$\begin{array}{c} . \ 13 \\ . \ 1$	$\begin{array}{c} . \ 17 \\ . \ 17 \\ . \ 17 \\ . \ 18 \\ . \ 18 \\ . \ 19 \\ . \ 20 \\ . \ 21 \\ . \ 22 \\ . \ 2$
-545.0	-166.12	1.35	. 678	1.35	. 92	1.63
-530.0	-161.54	1.43	. 683	1.43	. 98	1.73

$\begin{array}{c} -480.\ 0\\ -470.\ 0\\ -460.\ 0\\ -450.\ 0\\ -440.\ 0\\ -430.\ 0\\ -420.\ 0\\ -410.\ 0\\ -390.\ 0\\ -380.\ 0\\ -370.\ 0\\ -360.\ 0\\ -370.\ 0\\ -360.\ 0\\ -370.\ 0\\ -360.\ 0\\ -320.\ 0\\ -320.\ 0\\ -290.\ 0\\ -290.\ 0\\ -290.\ 0\\ -290.\ 0\\ -290.\ 0\\ -290.\ 0\\ -260.\ 0\\ -270.\ 0\\ -260.\ 0\\ -270.\ 0\\ -260.\ 0\\ -270.\ 0\\ -260.\ 0\\ -210.\ 0\\ -200.\ 0\\ -110.\ 0\\ -150.\ 0\\ -140.\ 0\\ -150.\ 0\\ -110.\ 0\\ -100.\ 0\\ -90.\ 0\\ -80.\ 0\\ -70.\ 0\\ -60.\ 0\\ -50.\ 0\\ -40.\ 0\\ -20.\ 0\\ -10.\ 0\\ -20.\ 0\\ -10.\ 0\\ -20.\ 0\\ -10.\ 0\\ -10.\ 0\\ -20.\ 0\\ -10.\ 0\\ -10.\ 0\\ -0\\ -10.\ 0\\ -10.\ 0\\ -0\\ -10.\ 0\\ -0\\ -0\\ -0\\ -0\\ -0\\ -0\\ -0\\ -0\\ -0\\ $	* * * *	GENERATED	BLE NOIS ACOUSTIO ove 1uW	SE C POWER (m)	$\begin{array}{c} 1.\ 22\\ 1.\ 28\\ 1.\ 34\\ 1.\ 48\\ 1.\ 55\\ 1.\ 63\\ 1.\ 72\\ 1.\ 81\\ 1.\ 63\\ 1.\ 72\\ 1.\ 81\\ 1.\ 91\\ 2.\ 2.\ 2.\ 53\\ 2.\ 69\\ 2.\ 53\\ 2.\ 69\\ 2.\ 53\\ 2.\ 69\\ 3.\ 2.\ 69\\ 3.\ 2.\ 69\\ 3.\ 2.\ 69\\ 2.\ 69\\ 3.\ 2.\ 69\\ 10.\ 68\\ 20\\ 13.\ 64\\ 18.\ 18\\ 21.\ 26\\ 09\\ 32.\ 61\\ 12.\ 64\\ 18.\ 18\\ 21.\ 26\\ 09\\ 32.\ 61\\ 12.\ 64\\ 18.\ 18\\ 21.\ 26\\ 19.\ 68\\ 204.\ 75\\ 129.\ 48\\ 117.\ 09\\ 164.\ 36\\ 51.\ 93\\ 129.\ 44\\ 51.\ 04\\ 14.\ 36\\ 51.\ 04\\ 14.\ 14.\ 14.\ 14.\ 14.\ 14.\ 14.\ 14.\$	$\begin{array}{c} 2. \ 14\\ 2. \ 24\\ 2. \ 34\\ 2. \ 45\\ 2. \ 57\\ 2. \ 69\\ 2. \ 83\\ 2. \ 73\\ 3. \ 29\\ 3. \ 13\\ 3. \ 29\\ 3. \ 14\\ 4. \ 63\\ 5. \ 61\\ 4. \ 93\\ 5. \ 61\\ 6. \ 93\\ 10. \ 49\\ 12. \ 54\\ 15. \ 39\\ 12. \ 53\\ 10. \ 49\\ 12. \ 53\\ 10. \ 49\\ 13. \ 84\\ 28. \ 61\\ 33. \ 20\\ 46. \ 24\\ 55. \ 68\\ 107. \ 08\\ 137. \ 09\\ 175. \ 30\\ 217. \ 36\\ 251. \ 78\\ 274. \ 47\\ 274. \ 47\\ \end{array}$
BNDL #	Туре	Summer Fa	ir	L5 RAI N	Lt RAI	
1 2	AC AC	-60.82 -64.26		-45.56 -47.60 Page 8	-49. -52.	

₽ ₽

LATERAL DISTANCE (feet) (meters)	FAI R WEATHER	BPA ME L5 RAIN dB(A)	THOD L50 RAIN dB(A)	Ldn dB(A)	<- CRIE AVERAGE FAIR dB(A)	PI> L5 RAIN dB(A)	EdF L5 RAI N dB(A)	ENEL L5 RAI N dB(A)	I REQ L5 RAI N dB(A)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 11.4\\ 11.4\\ 11.5\\ 11.6\\ 11.6\\ 11.6\\ 11.6\\ 11.6\\ 11.7\\ 11.8\\ 11.9\\ 11.9\\ 11.9\\ 12.0\\ 12.1\\ 12.2\\ 12.2\\ 12.3\\ 12.4\\ 12.5\\ 12.6\\ 12.6\\ 12.7\\ 12.8\\ 12.9\\ 12.6\\ 12.6\\ 12.7\\ 12.8\\ 12.9\\ 13.1\\ 13.2\\ 13.3\\ 13.4\\ 13.3\\ 13.4\\ 13.3\\ 13.4\\ 13.3\\ 13.4\\ 13.3\\ 13.4\\ 13.3\\ 13.4\\ 13.3\\ 13.4\\ 13.3\\ 13.4\\ 13.5\\$	$\begin{array}{c} 39.9\\ 39.9\\ 39.9\\ 39.9\\ 40.0\\ 40.1\\ 40.1\\ 40.2\\ 40.2\\ 40.3\\ 40.4\\ 40.4\\ 40.5\\ 40.6\\ 40.7\\ 40.8\\ 40.6\\ 40.7\\ 40.8\\ 40.9\\ 40.9\\ 41.0\\ 41.1\\ 41.2\\ 41.3\\ 41.4\\ 41.5\\ 41.6\\ 41.7\\ 41.8\\ 41.6\\ 41.7\\ 41.8\\ 41.6\\ 41.7\\ 41.8\\ 41.9\\$	$\begin{array}{c} 36.4\\ 36.4\\ 36.3\\ 37.3\\$						
-2050.0 -624.84 -2025.0 -617.22 -2000.0 -609.60	13.5 13.5	42. 0 42. 0	38.5 38.5	. 0 . 0	. 0 . 0	. 0 . 0	. 0 . 0	. 0 . 0 . 0	. 0 . 0

$\begin{array}{ccccccc} -1025.0 & -\\ -1010.0 & -\\ -995.0 & -\\ -980.0 & -\\ -965.0 & -\\ -950.0 & -\\ -920.0 & -\\ -905.0 & -\\ -905.0 & -\\ -890.0 & -\\ -875.0 & -\\ -860.0 & -\\ -845.0 & -\\ -830.0 & -\\ -815.0 & -\\ -800.0 & -\\ -815.0 & -\\ -770.0 & -\\ -755.0 & -\\ -770.0 & -\\ -755.0 & -\\ -770.0 & -\\ -725.0 & -\\ -770.0 & -\\ -725.0 & -\\ -770.0 & -\\ -725.0 & -\\ -770.0 & -\\ -755.0 & -\\ -500.0 & -\\ -665.0 & -\\ -665.0 & -\\ -665.0 & -\\ -665.0 & -\\ -590.0 & -\\ -590.0 & -\\ -575.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -550.0 & -\\ -530.0 & -\\ -300.0 & -\\ -390.0 & -\\ -330.0 & -\\ -330.0 & -\\ -320.0 & -\\ -320.0 & -\\ -320.0 & -\\ -320.0 & -\\ -320.0 & -\\ -100.0 & -\\ -300.0 & -\\ -320.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -300.0 & -\\ -320.0 & -\\ -30$	316. 99 $16.$ $312. 42$ $16.$ $307. 85$ $16.$ $303. 28$ $17.$ $298. 70$ $17.$ $294. 13$ $17.$ $289. 56$ $17.$ $284. 99$ $17.$ $280. 42$ $17.$ $280. 42$ $17.$ $275. 84$ $17.$ $266. 70$ $17.$ $262. 13$ $17.$ $257. 56$ $17.$ $252. 98$ $17.$ $248. 41$ $18.$ $230. 12$ $18.$ $230. 12$ $18.$ $230. 12$ $18.$ $220. 98$ $18.$ $211. 84$ $18.$ $202. 69$ $19.$ $198. 12$ $19.$ $193. 55$ $19.$ $188. 98$ $19.$ $194. 40$ $19.$ $175. 26$ $19.$ $170. 69$ $19.$ $175. 26$ $19.$ $170. 69$ $19.$ $175. 26$ $19.$ $175. 26$ $19.$ $175. 26$ $19.$ $170. 69$ $19.$ $166. 12$ $20.$ $143. 26$ $20.$ $143. 26$ $20.$ $143. 26$ $20.$ $144. 30$ $21.$ $121. 92$ $21.$ $124. 97$ $21.$ $125. 82$ $21.$ $106. 68$ $22.$ $103. 63$ $22.$ $106. 68$ $22.$ $103. 63$ $22.$ $100. 58$ $22.$ $100. 58$ $22.$	8 45.3 45.5 66789 90 1 2345.5 66789 90123 45.5 66789 9012345 678901223 456.77890123 122345 46.7789012345 46.778901234 47.347.5678901223 49.345.67901245 122345 6789012345 678901245 50.01245 50.245 50.255.55.55 12456778901245 50.2455 50.2455 50.2455 50.2455 50.2455 12456778012455 50.12455 50.2555 50.5555 50.5555 50.5555 50.5555 50.13465 50.13465 50.13465 50.1455 50.1455 50.1555 50.5555 50.13465 50.1455 50.1455 50.1455 50.1455 50.1555	$\begin{array}{c} 41.8\\ 41.9\\ 42.1\\ 42.2.4\\ 42.42.4\\ 42.42.4\\ 42.42.4\\ 42.42.4\\ 42.42.4\\ 42.42.4\\ 42.44.4\\ 43.3.4\\ 43.3.4\\ 43.3.4\\ 43.43.4\\ 44.4\\ 44.4\\ 44.67\\ 45.12\\ 45.5\\ 45.67\\ 45$		$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $	$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $		000000000000000000000000000000000000000	
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	112. 7821.109. 7322.106. 6822.103. 6322.100. 5822.	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	46. 9 47. 0 47. 1 47. 3 47. 4 47. 6 47. 7 47. 9 48. 1 48. 2 48. 4 48. 6 48. 8 49. 0	. 0 . 0 . 0 . 0 . 0	. 0 . 0 . 0 . 0 . 0	. 0 . 0 . 0 . 0 . 0	. 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0		. 0 . 0 . 0 . 0 . 0

				B2F	150004					
-230.0	-70.10	24.2	52.7	49.2	. 0	. 0	. 0	. 0	. 0	. 0
-220.0	-67.06	24.4	52.9	49.4	. 0	. 0	. 0	. 0	. 0	. 0
-210.0	-64.01	24.6	53.1	49.6	. 0	. 0	. 0	. 0	. 0	. 0
-200.0	-60.96	24.9	53.4	49.9	. 0	. 0	. 0	. 0	. 0	. 0
-190.0	-57.91	25.1	53.6	50.1	. 0	. 0	. 0	. 0	. 0	. 0
-180.0	-54.86	25.4	53.9	50.4	. 0	. 0	. 0	. 0	. 0	. 0
-170.0	-51.82	25.7	54.2	50.7	. 0	. 0	. 0	. 0	. 0	. 0
-160.0	-48.77	26.0	54.5	51.0	. 0	. 0	. 0	. 0	. 0	. 0
-150. 0 -140. 0	-45.72 -42.67	26.3 26.6	54.8 55.1	51.3 51.6	. 0	. 0	. 0	. 0 . 0	. 0	. 0
-140.0 -130.0	-42.07 -39.62	20.0	55. T	52.0	. 0 . 0	. 0 . 0	. 0 . 0	.0	. 0 . 0	. 0 . 0
-120.0	-36.58	27.0	55.8	52.3	. 0	. 0	. 0	. 0	. 0	. 0
-110.0	-33.53	27.3	56.2	52.7	. 0	.0	. 0	.0	.0	. 0
-100.0	-30.48	28.2	56.7	53.2	. 0	. 0	. 0	. 0	. 0	. 0
-90.0	-27.43	28.7	57.2	53.7	. 0	. 0	. 0	. 0	. 0	. 0
-80.0	-24.38	29.2	57.7	54.2	. 0	. 0	. 0	. 0	. 0	. 0
-70.0	-21.34	29.8	58.3	54.8	. 0	. 0	. 0	. 0	. 0	. 0
-60.0	-18.29	30.4	58.9	55.4	. 0	. 0	. 0	. 0	. 0	. 0
-50.0	-15.24	31.1	59.6	56.1	. 0	. 0	. 0	. 0	. 0	. 0
-40.0	-12.19	31.8	60.3	56.8	. 0	. 0	. 0	. 0	. 0	. 0
-30.0	-9.14	32.4	60.9	57.4	. 0	. 0	. 0	. 0	. 0	. 0
-20.0	-6.10	32.7	61.2	57.7	. 0	. 0	. 0	. 0	. 0	. 0
-10.0	-3.05	32.8	61.3	57.8	. 0	. 0	. 0	. 0	. 0	. 0
. 0	. 00	32.8	61.3	57.8	. 0	. 0	. 0	. 0	. 0	. 0

Audible noise prediction methods do not apply to all line geometries, voltages, or weather conditions. If a prediction method does not apply, the appropriate output data column will be zeros.

B2H50003

RESULTS OF ENVIRO PROGRAM

Single Circuit, 1,575 amp, 550-kV, H & Y-Frame Structure at 5,000 ft elevation. Part 1: From Centerline to 3,100 ft horizontally.

BNDL CI		VOLTA	GE E LOAD	CURRENT ANGLE (DEG)	* * * * * * * * * * * * * * * * * * *	COORDI X (FT)		PHASE	
	1 550 1 550 1 550 ****	0.0 240. 0.0 120.	0 1575.0	.0 120.0 240.0	33	-28.0 .0 28.0	34.5 34.5 34.5	A B C	
* * * * * * * * * *	* * * * * * * *		GROUND CLE			500 FT.	* * * * * * * * * *	*	

$\begin{array}{c c c c c c c c c c c c c c c c c c c $									
1 1 2 2 2 3 3 3 3	$\begin{array}{c} . 00 \\ 10. 00 \\ 20. 00 \\ . 00 \\ 10. 00 \\ 20. 00 \\ . 00 \\ 10. 00 \\ 20. 00 \\ 10. 00 \\ 20. 00 \\ \end{array}$	$\begin{array}{c c} . & 000 \\ 12. & 500 \\ . & 000 \\ 12. & 500 \\ . & 000 \\ . & 000 \\ . & 000 \\ 12. & 500 \\ . & 000 \\ \end{array}$	1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300	. 0684 . 0684 . 0684 . 0684 . 0684 . 0684 . 0684 . 0684 . 0684	40 40 40 40 40 40 40 40	. 071000 . 071000 . 071000 . 071000 . 071000 . 071000 . 071000 . 071000 . 071000	. 3680 . 3680 . 3680 . 3680 . 3680 . 3680 . 3680 . 3680 . 3680 . 3680	000 000 000 000 000 000 000	

BNDL #	Туре	ACrm	s PEAK(+)	PEAK(-)					
 1 2 3	AC AC AC AC	17. 1 18. 5 17. 1	9 26.29	-24. 31 -26. 29 -24. 31					
	* * * * * * *	* * * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * *	* * * *				



* a ⁻ *	t 3.28	B; RIC FIELD PROI feet above gro	ound	*	
DISTANCE (feet) (meters)	FIELD (kV/m)	MINOR/MAJOR ELLIPSE AXES (ratio)	VERTICAL (kV/m)	HORIZONTAL (kV/m)	SPACE POTENTI AL (KV)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5.451 5.490 6.979 8.683 8.497 6.925 5.161 3.741 2.719 2.007 1.510 1.159 .906 .720 .582 .476 .394 .279 .238 .279 .238 .177 .155	$\begin{array}{c} 238\\ 266\\ 165\\ 064\\ 023\\ 007\\ 001\\ 002\\ 002\\ 002\\ 002\\ 002\\ 002\\ 002$	5.451 5.488 6.943 8.678 8.490 6.900 5.134 3.720 2.705 1.998 1.504 1.155 .903 .719 .580 .475 .393 .279 .238 .205 .177 .155	$\begin{array}{c} 1. \ 296 \\ 1. \ 469 \\ 1. \ 349 \\ . \ 628 \\ . \ 401 \\ . \ 592 \\ . \ 530 \\ . \ 395 \\ . \ 278 \\ . \ 193 \\ . \ 136 \\ . \ 097 \\ . \ 071 \\ . \ 052 \\ . \ 039 \\ . \ 030 \\ . \ 024 \\ . \ 019 \\ . \ 015 \\ . \ 012 \\ . \ 010 \\ . \ 008 \\ . \ 007 \end{array}$	5.337 5.421 6.885 8.587 8.435 6.893 5.146 3.733 2.715 2.005 1.509 1.158 .906 .720 .581 .476 .394 .279 .238 .205 .177 .155

			B2F	150003	
$\begin{array}{c} 560. \ 0\\ 575. \ 0\\ 590. \ 0\\ 605. \ 0\\ 620. \ 0\\ 635. \ 0\\ 650. \ 0\\ 645. \ 0\\ 710. \ 0\\ 725. \ 0\\ 740. \ 0\\ 755. \ 0\\ 770. \ 0\\ 755. \ 0\\ 800. \ 0\\ 815. \ 0\\ 800. \ 0\\ 845. \ 0\\ 845. \ 0\\ 845. \ 0\\ 845. \ 0\\ 845. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 995. \ 0\\ 1010. \ 0\\ 1025. \ 0\\ 1040. \ 0\\ 1025. \ 0\\ 1040. \ 0\\ 1175. \ 0\\ 1145. \ 0\\ 1145. \ 0\\ 120$	$\begin{array}{c} 170.\ 69\\ 175.\ 26\\ 179.\ 83\\ 184.\ 40\\ 188.\ 98\\ 193.\ 55\\ 198.\ 12\\ 202.\ 69\\ 207.\ 26\\ 211.\ 84\\ 216.\ 41\\ 220.\ 98\\ 225.\ 55\\ 230.\ 12\\ 234.\ 70\\ 239.\ 27\\ 243.\ 84\\ 248.\ 41\\ 252.\ 98\\ 257.\ 56\\ 262.\ 13\\ 262.\ 13\\ 262.\ 13\\ 298.\ 70\\ 303.\ 28\\ 307.\ 85\\ 312.\ 42\\ 289.\ 56\\ 294.\ 13\\ 298.\ 70\\ 303.\ 28\\ 307.\ 85\\ 312.\ 42\\ 289.\ 56\\ 294.\ 13\\ 298.\ 70\\ 303.\ 28\\ 307.\ 85\\ 312.\ 42\\ 349.\ 00\\ 353.\ 57\\ 358.\ 14\\ 362.\ 71\\ 355.\ 28\\ 371.\ 86\\ 376.\ 43\\ 381.\ 00\\ 355.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 417.\ 58\\ 422.\ 15\\ 426.\ 72\\ 435.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 390.\ 14\\ 394.\ 72\\ 399.\ 29\\ 403.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 426.\ 72\\ 435.\ 86\\ 408.\ 43\\ 413.\ 00\\ 855.\ 57\\ 406.\ 55\\ 856.\ 85\\ 406.\ 85\\ 856.\ 85\\ 856.\ 85\\ 856.\ 85\\ 856.\ 85\\ 856.\ 85\\ 856.\ 856\ 856\\ 856.\ 856\ 856\\ 856.\ 856\ 856\\ 856.\ 856\ 856\ 856\ 856\ 856\ 856\ 856\ 856$	$\begin{array}{c} 010\\ 009\\ 008\\ 008\\ 007\\ 007\\ 006\\ 006\\ 006\\ 006\\ 005\\ 005\\ 005\\ 005$	$\begin{array}{c} . 002 \\ . 001 \\$. 010 . 010 . 010 . 009 . 008 . 007 . 007 . 007 . 006 . 006 . 005 . 005 . 005 . 005 . 005 . 005 . 004 . 004 . 004 . 004 . 004 . 004 . 003 . 002 . 001 . 001	$\begin{array}{c} 010\\ 001\\ 009\\ 008\\ 008\\ 007\\ 007\\ 006\\ 006\\ 006\\ 005\\ 005\\ 005\\ 005\\ 005$

			B2H	150003		
2750.0	838.20	. 000	. 000	. 000	. 000	. 000
2775.0	845.82	. 000	. 000	. 000	. 000	. 000
2800.0	853.44	. 000	. 000	. 000	. 000	. 000
2825.0	861.06	. 000	. 000	. 000	. 000	. 000
2850.0	868.68	. 000	. 000	. 000	. 000	. 000
2875.0	876.30	. 000	. 000	. 000	. 000	. 000
2900.0	883.92	. 000	. 000	. 000	. 000	. 000
2925.0	891.54	. 000	. 000	. 000	. 000	. 000
2950.0	899.16	. 000	. 000	. 000	. 000	. 000
2975.0	906.78	. 000	. 000	. 000	. 000	. 000
3000.0	914.40	. 000	. 000	. 000	. 000	. 000
3025.0	922.02	. 000	. 000	. 000	. 000	. 000
3050.0	929.64	. 000	. 000	. 000	. 000	. 000
3075.0	937.26	. 000	. 000	. 000	. 000	. 000
3100.0	944.88	. 000	. 000	. 000	. 000	. 000
0						

Ŷ

AC CURRENTS IN EACH BUNDLE:

BNDI	AC Cl	JRRENTS (Ampe	BUNDLE POSITION		
BNDL #	REAL I MAGI NARY	TOTAL	X-COORD	Y-COORD	
1	1575.00	. 00	1575.00	-28.00	34.50
2	-787.50	1363.99	1575.00	. 00	34.50
3	-787.50	-1363.99	1575.00	28.00	34.50
4					

LATERAL DISTANCE (feet) (meters)	MAJOR AXI S	MI NOR/ MAJOR	IAGNETIC FI VERTICAL F COMP (mG)	IORI ZONTA COMP	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 281.52\\ 282.95\\ 277.28\\ 251.34\\ 208.15\\ 162.49\\ 124.64\\ 96.34\\ 75.78\\ 60.79\\ 49.68\\ 41.28\\ 34.80\\ 29.72\\ 25.66\\ 22.37\\ 19.67\\ 17.43\\ 15.55\\ 13.96 \end{array}$	$\begin{array}{c} .512\\ .461\\ .353\\ .258\\ .189\\ .141\\ .108\\ .084\\ .067\\ .055\\ .045\\ .038\\ .032\\ .027\\ .023\\ .027\\ .023\\ .020\\ .017\\ .015\\ .013\\ .011\end{array}$	$\begin{array}{c} 281.\ 48\\ 276.\ 14\\ 233.\ 27\\ 140.\ 37\\ 49.\ 62\\ 35.\ 45\\ 51.\ 00\\ 53.\ 71\\ 50.\ 09\\ 44.\ 60\\ 39.\ 04\\ 34.\ 02\\ 29.\ 69\\ 26.\ 02\\ 22.\ 92\\ 20.\ 30\\ 18.\ 08\\ 16.\ 18\\ 14.\ 56\\ 13.\ 16\\ Page\ 5\end{array}$	$\begin{array}{c} 144.\ 12\\ 144.\ 33\\ 179.\ 04\\ 218.\ 34\\ 205.\ 94\\ 160.\ 23\\ 114.\ 52\\ 80.\ 39\\ 57.\ 10\\ 41.\ 45\\ 30.\ 81\\ 23.\ 43\\ 18.\ 18\\ 14.\ 37\\ 11.\ 55\\ 9.\ 41\\ 7.\ 77\\ 6.\ 48\\ 5.\ 47\\ 4.\ 65\\ \end{array}$	49. 73 41. 31 34. 82 29. 73 25. 66 22. 37 19. 68 17. 43 15. 55

$\begin{array}{c} 200.\ 0\\ 210.\ 0\\ 220.\ 0\\ 230.\ 0\\ 240.\ 0\\ 250.\ 0\\ 240.\ 0\\ 250.\ 0\\ 260.\ 0\\ 300.\ 0\\ 310.\ 0\\ 320.\ 0\\ 330.\ 0\\ 340.\ 0\\ 350.\ 0\\ 360.\ 0\\ 360.\ 0\\ 360.\ 0\\ 360.\ 0\\ 360.\ 0\\ 360.\ 0\\ 440.\ 0\\ 440.\ 0\\ 440.\ 0\\ 440.\ 0\\ 450.\ 0\\ 575.\ 0\\ 560.\ 0\\ 575.\ 0\\ 560.\ 0\\ 575.\ 0\\ 560.\ 0\\ 575.\ 0\\ 560.\ 0\\ 655.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 665.\ 0\\ 680.\ 0\\ 695.\ 0\\ 710.\ 0\\ 755.\ 0\\ 800.\ 0\\ 845.\$	60.96 64.01 67.06 70.10 73.15 76.20 79.25 82.30 85.34 88.39 91.44 94.49 97.54 100.58 103.63 106.68 109.78 112.82 124.97 128.02 131.06 134.11 137.16 140.21 143.26 146.30 152.40 152.40 152.40 156.97 161.54 166.12 170.69 175.26 179.83 184.40 188.98 193.55 198.12 202.69 211.84 202.69 211.84 225.55 230.12 234.70 243.84 255.55 230.12 234.70 243.84 255.55 230.12 234.70 243.84 255.55 230.12 234.70 243.84 255.55 230.12 234.70 243.84 255.55 230.12 234.70 243.84 255.55 230.12 234.70 243.84 255.55 230.12 234.70 275.84 280.42 80.42 80	$\begin{array}{c} 12.\ 60\\ 11.\ 43\\ 10.\ 41\\ 9.\ 53\\ 8.\ 75\\ 8.\ 06\\ 7.\ 45\\ 6.\ 91\\ 6.\ 43\\ 5.\ 99\\ 5.\ 24\\ 4.\ 92\\ 4.\ 62\\ 4.\ 35\\ 4.\ 92\\ 4.\ 62\\ 4.\ 31\\ 3.\ 88\\ 3.\ 314\\ 2.\ 2.\ 2.\ 60\\ 2.\ 48\\ 2.\ 27\\ 2.\ 09\\ 1.\ 69\\ 1.\ 60\\ 1.\ 51\\ 1.\ 44\\ 1.\ 37\\ 1.\ 30\\ 1.\ 24\\ 8.\\ 3.\ 80\\ 77\\ .\ 74\\ 1.\ 69\\ .\ 66\\ .\ 64\\ 2.\ 60\\ .\ 51\\ 1.\ 44\\ 1.\ 37\\ 1.\ 30\\ 1.\ 99\\ .\ 94\\ 1.\ 69\\ 1.\ 69\\ 1.\ 60\\ 1.\ 51\\ 1.\ 44\\ 1.\ 37\\ 1.\ 30\\ 1.\ 99\\ .\ 94\\ .\ 83\\ 80\\ .\ 77\\ .\ 74\\ .\ 69\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 51\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 66\\ .\ 64\\ .\ 62\\ .\ 66\\ .\ $	$\begin{array}{c} 010\\ 009\\ 007\\ 006\\ 005\\ 004\\ 003\\ 003\\ 002\\ 001\\ 000\\ 001\\ 000\\ 001\\ 002\\ 002$	$\begin{array}{c} \text{B2H50003}\\ 11.95\\ 10.90\\ 9.97\\ 9.16\\ 8.44\\ 7.80\\ 7.23\\ 6.72\\ 6.26\\ 5.84\\ 5.47\\ 5.13\\ 4.28\\ 4.53\\ 4.28\\ 4.04\\ 3.82\\ 3.428\\ 3.26\\ 3.26\\ 3.26\\ 3.26\\ 3.26\\ 3.26\\ 3.26\\ 3.25\\ 2.35\\ 2.25\\ 2.35\\ 2.25\\ 2.35\\ 2.25\\ 2.35\\ 2.25\\ 2.35\\ 2.25\\ 2.35\\ 2.25\\ 2.35\\ 2.25\\ 2.35\\ 2.25\\ 2.35\\ 2.25\\ 2.35\\ 2.35\\ 2.25\\ 2.35\\ 2.35\\ 2.25\\ 2.35\\ 2$	$\begin{array}{c} 3. \ 99\\ 3. \ 45\\ 3. \ 00\\ 2. \ 32\\ 2. \ 05\\ 1. \ 45\\ 1. \ 08\\ 99\\ . \ 90\\ . \ 83\\ . \ 765\\ . \ 656\\ . \ 52\\ . \ 445\\ . \ 375\\ . \ 33\\ . \ 30\\ . \ 226\\ . \ 231\\ . \ 209\\ . \ 18\\ . \ 165\\ . \ 14\\ . \ 13\\ . \ 122\\ . \ 12\\ . \ 11\\ . \ 11\\ . \ 11\\ . \ 11\\ . \ 11\\ . \ 11\\ . \ 10\ . \ 10\\ . \ 10\ . \ 10\ . \$	$\begin{array}{c} 12.\ 60\\ 11.\ 43\\ 10.\ 41\\ 9.\ 53\\ 8.\ 75\\ 8.\ 76\\ 7.\ 45\\ 6.\ 91\\ 6.\ 43\\ 5.\ 60\\ 5.\ 24\\ 4.\ 62\\ 4.\ 35\\ 4.\ 92\\ 4.\ 62\\ 4.\ 35\\ 4.\ 92\\ 2.\ 60\\ 2.\ 60\\ 1.\ 51\\ 1.\ 44\\ 1.\ 30\\ 1.\ 24\\ 1.\ 18\\ 1.\ 03\\ 1.\ 69\\ 1.\ 60\\ 1.\ 51\\ 1.\ 44\\ 1.\ 30\\ 1.\ 24\\ 1.\ 18\\ 1.\ 03\\ 1.\ 03\\ 95\\ .\ 91\\ .\ 84\\ 0.\ 77\\ .\ 69\\ .\ 64\\ .\ 62\\ .\ 60\\ .\ 58\\ \end{array}$
875. 0	266. 70	. 64	. 060	. 63	. 10	. 64
890. 0	271. 27	. 62	. 063	. 61	. 10	. 62
905. 0	275. 84	. 60	. 065	. 59	. 10	. 60

$\begin{array}{cccccccccccccccccccccccccccccccccccc$					DOUEDOOO		
1895.0 577.60 .13 .172 .08 .10 .13	$\begin{array}{c} 1010.\ 0\\ 1025.\ 0\\ 1040.\ 0\\ 1055.\ 0\\ 1070.\ 0\\ 1085.\ 0\\ 1100.\ 0\\ 1115.\ 0\\ 1130.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1205.\ 0\\ 1205.\ 0\\ 1250.\ 0\\ 1250.\ 0\\ 1250.\ 0\\ 1250.\ 0\\ 1250.\ 0\\ 1265.\ 0\\ 1265.\ 0\\ 1310.\ 0\\ 1325.\ 0\\ 1325.\ 0\\ 1325.\ 0\\ 1340.\ 0\\ 1355.\ 0\\ 1370.\ 0\\ 1385.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1455.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1565.\ 0\\ 1595.\ 0\\ 1595.\ 0\\ 1565.\ 0\\ 1595.\ 0\\ 1565.\ 0\\ 1595.\ 0\\ 1565.\ 0\\ 1595.\ 0\\ 1565.\ 0\\ 1595.\ 0\\$	307.85 312.42 316.99 321.56 326.14 330.71 335.28 339.85 344.42 349.00 353.57 358.14 362.71 367.28 371.86 376.43 381.00 385.57 390.14 394.72 399.29 403.86 403.86 413.00 417.58 422.15 426.72 431.29 435.86 440.44 445.01 445.01 445.01 445.872 435.86 440.44 445.01 445.01 445.30 477.41 481.58 458.72 463.30 467.87 472.44 477.01 481.58 486.16 490.73 495.30 495.30 495.30 527.30 531.88 527.30 531.88 541.02 554.74 559.31 563.88 568.45	$\begin{array}{c} 47\\ .46\\ .44\\ .43\\ .41\\ .40\\ .39\\ .38\\ .37\\ .36\\ .35\\ .34\\ .32\\ .31\\ .30\\ .29\\ .28\\ .27\\ .26\\ .224\\ .23\\ .22\\ .21\\ .20\\ .29\\ .28\\ .27\\ .26\\ .26\\ .224\\ .23\\ .22\\ .21\\ .20\\ .19\\ .19\\ .18\\ .18\\ .17\\ .17\\ .16\\ .16\\ .16\\ .15\\ .15\\ .15\\ .15\\ .15\\ .15\\ .15\\ .15$	$\begin{array}{c} .\ 084\\ .\ 086\\ .\ 089\\ .\ 092\\ .\ 094\\ .\ 097\\ .\ 099\\ .\ 102\\ .\ 104\\ .\ 107\\ .\ 109\\ .\ 111\\ .\ 107\\ .\ 109\\ .\ 111\\ .\ 113\\ .\ 115\\ .\ 117\\ .\ 118\\ .\ 120\\ .\ 121\\ .\ 122\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 124\\ .\ 123\\ .\ 027\\ .\ 007\\ .\ 004\\ .\ 053\\ .\ 045\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 069\\ .\ 061\\ .\ 076\\ .\ 069\\ .\ 061\\ .\ 076\\ .\ 089\\ .\ 102\\ .\ 116\\ .\ 129\\ .\ 143\\ \end{array}$	$\begin{array}{c} . \ 46\\ . \ 45\\ . \ 43\\ . \ 42\\ . \ 41\\ . \ 39\\ . \ 38\\ . \ 37\\ . \ 36\\ . \ 35\\ . \ 33\\ . \ 32\\ . \ 31\\ . \ 30\\ . \ 29\\ . \ 28\\ . \ 27\\ . \ 26\\ . \ 25\\ . \ 24\\ . \ 23\\ . \ 22\\ . \ 21\\ . \ 20\\ . \ 29\\ . \ 28\\ . \ 27\\ . \ 26\\ . \ 25\\ . \ 24\\ . \ 23\\ . \ 22\\ . \ 21\\ . \ 20\\ . \ 19\\ . \ 10\\ . \ 10\\ . \ 10\\ . \ 10\\ . \ 10\\ . \ 10\\ . \ 09\\ . \ 08\\ . \ 00\$	$\begin{array}{c} . 10 \\ . $	$\begin{array}{c} . 47 \\ . 46 \\ . 44 \\ . 43 \\ . 42 \\ . 40 \\ . 39 \\ . 38 \\ . 37 \\ . 36 \\ . 35 \\ . 34 \\ . 32 \\ . 31 \\ . 30 \\ . 29 \\ . 27 \\ . 26 \\ . 25 \\ . 24 \\ . 22 \\ . 21 \\ . 20 \\ . 20 \\ . 20 \\ . 19 \\ . 18 \\ . 18 \\ . 17 \\ . 16 \\ . 16 \\ . 16 \\ . 16 \\ . 15 \\ . 15 \\ . 15 \\ . 15 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 14 \\ . 13 \\ \end{array}$
	1865. 0 1880. 0	568. 45 573. 02	. 13 . 13	. 143 . 157	. 08 . 08	. 10 . 10	. 13 . 13

3075.0	*	. 07 . 06 . 06 . 06 . 06		*	$\begin{array}{c} . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 09 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 06 \\ . $	$\begin{array}{c} . 13 \\ . 13 \\ . 13 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 12 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 11 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 10 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 08 \\ . $
	* * * *	AUDI BL GENERATED AC (dB abov	:OUSTIC re 1uW/	C POWER * 'm) *		
BNDL #		Summer Fair		L5 RAIN	L50 RAI N	
1 2	AC AC	-60. 66 -56. 31		45.46 42.88 Page 8	-49.19 -45.47	

-49.19

Ŷ	3	AC	-60. 66		B2 -45.	H50 46
т			* * * * * * * * * * * * *	******	****	*
			*			*
			* AUDI BLE	NOI SE		*
			* (other m	ethods)		*
			*			*
			* Altitude	5000.	ft	*
			*			*
			* * * * * * * * * * * * *	* * * * * * *	* * * *	*

LATERAL DISTANCE (feet) (meters)	FAIR WEATHER R	BPA METHOD - L5 L50 RAIN RAIN IB(A) dB(A)	Ldn dB(A)	<- CRIE AVERAGE FAIR dB(A)	EdF L5 RAI N dB(A)	ENEL L5 RAIN dB(A)	I REQ L5 RAI N dB(A)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 36.\ 4\\ 36.\ 0\\ 35.\ 5\\ 34.\ 9\\ 34.\ 2\\ 33.\ 4\\ 32.\ 8\\ 32.\ 2\\ 31.\ 6\\ 30.\ 2\\ 29.\ 8\\ 29.\ 5\\ 29.\ 5\\ 29.\ 5\\ 29.\ 5\\ 29.\ 5\\ 29.\ 5\\ 29.\ 5\\ 29.\ 7\\ 27.\ 4\\ 27.\ 2\\ 27.\ 0\\ 26.\ 6\\ 26.\ 4\\ 26.\ 0\\ 25.\ 7\\ 25.\ 5\\ 4\\ 25.\ 2\\ 25.\ 1\\ 9\\ 24.\ 6\\ 24.\ 3\\ 24.\ 6\\ 24.\ 3\\ 24.\ 6\\ 24.\ 3\\ 24.\ 6\\ 24.\ 3\\ 24.\ 6\\ 24.\ 3\\ 24.\ 6\\ 24.\ 3\\ 24.\ 6\\ 24.\ 3\\ 24.\ 6\\ 24.\ 5\\ 24.\ 3\\ 24.\ 6\\ 24.\ 5\\ 24.\ 5\\ 24.\ 6\\ 24.\ 5\\ 2$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $		$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $

$\begin{array}{c} 470.\ 0\\ 480.\ 0\\ 500.\ 0\\ 515.\ 0\\ 530.\ 0\\ 545.\ 0\\ 575.\ 0\\ 590.\ 0\\ 620.\ 0\\ 635.\ 0\\ 645.\ 0\\ 645.\ 0\\ 645.\ 0\\ 710.\ 0\\ 725.\ 0\\ 740.\ 0\\ 755.\ 0\\ 830.\ 0\\ 845.\ 0\\ 845.\ 0\\ 845.\ 0\\ 845.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 905.\ 0\\ 100.\ 0\\ 1025.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 1145.\ 0\\ 11205.\ 0\\ 1220.\ 0\\ 1220.\ 0\\ 1225.\ 0\\ 1220.\ 0\\ 1225.\ 0\\ 1245.\ 0\\ 1245.\ 0\\ 1245.\ 0\\ 1245.\ 0\\ 1245.\ 0\\ 1245.\ 0\\ 1340.\ 0\\ 1355.\ 0\\ 13555.\ 0\\ 13555.\ 0\\ 13555.\ 0\\ 135555.\ 0\\ 0\\ 135555.\ 0\\ 13555555555555555555555555555555555555$
143. 26 146. 30 149. 35 152. 40 156. 97 161. 54 170. 69 175. 26 179. 83 184. 40 188. 98 193. 55 192. 69 207. 26 211. 84 225. 55 230. 12 234. 70 239. 27 243. 84 252. 98 257. 56 262. 13 266. 70 271. 27 275. 84 284. 99 289. 56 294. 13 298. 70 303. 28 307. 85 312. 42 349. 00 353. 57 358. 14 367. 28 371. 86 376. 43 371. 86 376. 43 371. 86 376. 43 371. 86 376. 43 371. 58 422. 15
$\begin{array}{c} 23.54\\ 23.22\\ 22$
$\begin{array}{c} 52.9\\ 51.8755555555555555556444444444444444444444$
$\begin{array}{c} \text{B2H5}\\ \text{48.5}\\ \text{48.3}\\ \text{2097}\\ \text{65.321}\\ \text{0.7.6}\\ \text{7.65321}\\ \text{0.7.6}\\ \text{7.65321}\\ \text{1097}\\ \text{65.4321}\\ \text{1097}\\ \text{66.54321}\\ \text{10987}\\ \text{66.54321}\\ \text{100987}\\ \text{66.543221}\\ \text{100987}\\ 100987$
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $

$\begin{array}{c} 1400.\ 0\\ 1415.\ 0\\ 1430.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1445.\ 0\\ 1475.\ 0\\ 1505.\ 0\\ 1505.\ 0\\ 1550.\ 0\\ 1550.\ 0\\ 1550.\ 0\\ 1550.\ 0\\ 1550.\ 0\\ 1550.\ 0\\ 1550.\ 0\\ 1640.\ 0\\ 1655.\ 0\\ 1670.\ 0\\ 1670.\ 0\\ 1675.\ 0\\ 1775.\ 0\\ 1775.\ 0\\ 1770.\ 0\\ 1775.\ 0\\ 1780.\ 0\\ 1880.\ 0\\ 1880.\ 0\\ 1880.\ 0\\ 1885.\ 0\\ 1880.\ 0\\ 1885.\ 0\\ 1880.\ 0\\ 1885.\ 0\\ 1885.\ 0\\ 1940.\ 0\\ 1925.\ 0\\ 1970.\ 0\\ 1925.\ 0\\ 2025.\ 0\\ 2050.\ 0\\ 2050.\ 0\\ 2050.\ 0\\ 2255.\ 0\\ 2350.\ 0\\ 2350.\ 0\\ 2350.\ 0\\ 2350.\ 0\\ 2350.\ 0\\ 2350.\ 0\\ 24550.\ 0\\ 2450.\ 0\\ 2550.\ 0$
$\begin{array}{c} 426.\ 72\\ 431.\ 29\\ 435.\ 86\\ 440.\ 44\\ 445.\ 01\\ 449.\ 58\\ 454.\ 15\\ 458.\ 72\\ 463.\ 30\\ 467.\ 87\\ 472.\ 44\\ 477.\ 01\\ 481.\ 58\\ 486.\ 16\\ 499.\ 87\\ 477.\ 01\\ 481.\ 58\\ 486.\ 102\\ 513.\ 59\\ 513.\ 59\\ 513.\ 59\\ 554.\ 74\\ 599.\ 31\\ 527.\ 30\\ 536.\ 45\\ 559.\ 31\\ 563.\ 88\\ 568.\ 45\\ 573.\ 60\\ 554.\ 74\\ 559.\ 31\\ 563.\ 88\\ 568.\ 45\\ 573.\ 60\\ 554.\ 74\\ 559.\ 31\\ 563.\ 88\\ 568.\ 45\\ 577.\ 60\\ 554.\ 74\\ 595.\ 88\\ 605.\ 03\\ 609.\ 60\\ 617.\ 22\\ 624.\ 84\\ 632.\ 46\\ 640.\ 08\\ 647.\ 70\\ 586.\ 74\\ 591.\ 31\\ 595.\ 88\\ 605.\ 03\\ 609.\ 60\\ 617.\ 22\\ 624.\ 84\\ 632.\ 46\\ 640.\ 08\\ 647.\ 70\\ 586.\ 74\\ 591.\ 31\\ 595.\ 88\\ 605.\ 03\\ 607.\ 56\\ 678.\ 18\\ 685.\ 80\\ 693.\ 42\\ 701.\ 66\\ 716.\ 28\\ 739.\ 14\\ 764.\ 76\\ 716.\ 28\\ 723.\ 90\\ 731.\ 52\\ 739.\ 14\\ 764.\ 76\\ 764.\ 38\\ 762.\ 00\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 769.\ 62\\ 777.\ 24\\ 760.\ 62\\ 777.\ 62\\ 777.\ 62\\ 777.\ 62\\ 777.\ 760.$
$18.09988776655554433221100099888877666655444433221100998887666555443322211\\177.8877665555443322211000998887766665554443322211011111111111111111111111111111$
$\begin{array}{c} 46.54433221100099887766555443332211100999887766544444444444444444$
$\begin{array}{c} 43.1\\ 43.0\\ 42.9\\ 42.8\\ 42.7\\ 42.8\\ 42.7\\ 42.6\\ 42.55\\ 42.2\\ 42.2\\ 42.2\\ 42.3\\ 42.2\\ 42.3\\ 42.2$
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $

				B2H	50003					
2575.0	784.86	15.0	43.5	40.0	. 0	. 0	. 0	. 0	. 0	. 0
2600.0	792.48	15.0	43.5	40.0	. 0	. 0	. 0	. 0	. 0	. 0
2625.0	800.10	14.9	43.4	39.9	. 0	. 0	. 0	. 0	. 0	. 0
2650.0	807.72	14.9	43.4	39.9	. 0	. 0	. 0	. 0	. 0	. 0
2675.0	815.34	14.8	43.3	39.8	. 0	. 0	. 0	. 0	. 0	. 0
2700.0	822.96	14.8	43.3	39.8	. 0	. 0	. 0	. 0	. 0	. 0
2725.0	830.58	14.8	43.3	39.8	. 0	. 0	. 0	. 0	. 0	. 0
2750.0	838.20	14.7	43.2	39.7	. 0	. 0	. 0	. 0	. 0	. 0
2775.0	845.82	14.7	43.2	39.7	. 0	. 0	. 0	. 0	. 0	. 0
2800.0	853.44	14.6	43.1	39.6	. 0	. 0	. 0	. 0	. 0	. 0
2825.0	861.06	14.6	43.1	39.6	. 0	. 0	. 0	. 0	. 0	. 0
2850.0	868.68	14.5	43.0	39.5	. 0	. 0	. 0	. 0	. 0	. 0
2875.0	876.30	14.5	43.0	39.5	. 0	. 0	. 0	. 0	. 0	. 0
2900.0	883.92	14.4	42.9	39.4	. 0	. 0	. 0	. 0	. 0	. 0
2925.0	891.54	14.4	42.9	39.4	. 0	. 0	. 0	. 0	. 0	. 0
2950.0	899.16	14.4	42.9	39.4	. 0	. 0	. 0	. 0	. 0	. 0
2975.0	906.78	14.3	42.8	39.3	. 0	. 0	. 0	. 0	. 0	. 0
3000.0	914.40	14.3	42.8	39.3	. 0	. 0	. 0	. 0	. 0	. 0
3025.0	922.02	14.2	42.7	39.2	. 0	. 0	. 0	. 0	. 0	. 0
3050.0	929.64	14.2	42.7	39.2	. 0	. 0	. 0	. 0	. 0	. 0
3075.0	937.26	14.2	42.7	39.2	. 0	. 0	. 0	. 0	. 0	. 0
3100.0	944.88	14.1	42.6	39.1	. 0	. 0	. 0	. 0	. 0	. 0

Audible noise prediction methods do not apply to all line geometries, voltages, or weather conditions. If a prediction method does not apply, the appropriate output data column will be zeros.

B2H50004

RESULTS OF ENVIRO PROGRAM

Single Circuit, 1,575 amp, 550-kV, H & Y-Frame Structure at 5,000 ft elevation. Part 2: From Centerline to -3,100 ft horizontally.

* * * * * * * *	* * * * * * * * * *	* * * * * * * * * *	******	* * * * * * * * * *	* * * * * *	* * * * * * * * * *	* * * * * * * * * *	* * * * * * * * *	
* BUNDLE INFORMATION *									
BNDL CI	RC VOLTA	VOLTAGE GE ANGLE (DEG)	E LOAD (AMPS)	CURRENT ANGLE (DEG)	# OF COND	COORDI X (FT)	NATES Y (FT)	PHASE	
1 2 3 *******	1 550.0 1 550.0 1 550.0	0 240.0 0 120.0	1575.0 1575.0 1575.0	.0 120.0 240.0	3 3 * * * * * *	-28.0 .0 28.0	34.5 34.5 34.5	A B C	
*	*****		GROUND CLEA			500 FT.	* * * * * * * * * *	*	

1 1 2 2 2 3 3 3 *******	20. 00 . 00 10. 00 20. 00 . 00	. 000 12. 500 . 000 . 000 12. 500 . 000 12. 500 . 000	1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300	. 068 . 068 . 068 . 068 . 068 . 068 . 068 . 068 . 068	40 40 40 40 40 40 40 40 40	. 071000 . 071000 . 071000 . 071000 . 071000 . 071000 . 071000 . 071000 . 071000	. 3680 . 3680	000 000 000 000 000 000 000 000	

BNDL #	Туре	ACrms	PEAK(+)	PEAK(-)					
 1 2 3 ♀	AC AC AC	17. 19 18. 59 17. 19	24. 31 26. 29 24. 31	-24. 31 -26. 29 -24. 31					
·	* * * * * * * *	* * * * * * * * * *	* * * * * * * * * * * *	*******	* * * *				

``````````````````````````````````````								
LATERAL DISTANCE (feet) (meters)	MAXIMUM FIELD (kV/m)	MINOR/MAJOR ELLIPSE AXES (ratio)		HORIZONTAL (kV/m)	SPACE POTENTI AL (KV)			
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	<ul> <li>. 000</li> &lt;</ul>	$\begin{array}{c} . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\$	. 000 . 000	$\begin{array}{c} . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\$	$\begin{array}{c} . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\$			
-1895.0 -577.60 -1880.0 -573.02 -1865.0 -568.45	. 000 . 000 . 001	. 001 . 001 . 001	. 000 . 000 . 001	. 000 . 000 . 000	. 000 . 000 . 000			

B2H50004 AC ELECTRIC FIELD PROFILE at 3.28 feet above ground

* * * * * *

B2H50004	
-1835.0       -559.31       .001       .001       .000       .         -1802.0       -550.16       .001       .001       .000       .         -1790.0       -545.59       .001       .001       .001       .000       .         -1775.0       -541.02       .001       .001       .001       .000       .         -1745.0       -531.88       .001       .001       .001       .000       .         -1745.0       -522.73       .001       .001       .001       .000       .         -1760.0       -513.59       .001       .001       .001       .000       .         -1665.0       -504.44       .001       .001       .001       .000       .         -1645.0       -495.30       .001       .001       .001       .000       .         -1645.0       -495.30       .001       .001       .001       .000       .         -1645.0       -495.30       .001       .001       .001       .000       .         -1645.0       -497.33       .001       .001       .001       .000       .         -1555.0       -472.44       .001       .001       .000       . <td>001 001 001 001 001 001 001 001 001 001</td>	001 001 001 001 001 001 001 001 001 001

			B2I	150004		
-140.0	-42.67	. 562	. 001	. 561	. 038	. 562
-130.0	-39.62	. 695	. 001	. 693	. 050	. 694
-120.0	-36.58	. 871	. 001	. 869	. 067	. 871
-110.0	-33.53	1. 111	. 002	1. 107	. 092	1. 110
-100.0	-30.48	1.443	. 002	1.438	. 128	1.442
-90.0	-27.43	1. 912	. 002	1.903	. 182	1.909
-80.0	-24.38	2.582	. 002	2.568	. 262	2. 578
-70.0	-21.34	3. 545	. 002	3.525	. 374	3. 538
-60.0	-18.29	4.895	. 000	4.869	. 509	4.882
-50.0	-15.24	6. 621	. 006	6. 595	. 594	6. 593
-40.0	-12.19	8. 294	. 019	8. 284	. 451	8.238
-30.0	-9.14	8. 797	. 054	8.795	. 507	8.706
-20.0	-6.10	7.336	. 142	7.302	1. 257	7.237
-10.0	-3.05	5.600	. 262	5.593	1. 495	5.536
. 0	. 00	5.451	. 238	5.451	1. 296	5.337

Ŷ

# AC CURRENTS IN EACH BUNDLE:

	AC Cl	JRRENTS (Ampe	BUNDLE POSITION		
BNDL #	REAL	I MAGI NARY	TOTAL	X-COORD	Y-COORD
1	1575.00	. 00	1575.00	-28.00	34.50
2	-787.50	1363.99	1575.00	. 00	34.50
3	-787.50	-1363.99	1575.00	28.00	34.50
f					

*				×
*	MA	AGNETIC FIE	LD PROFILE	*
*	at	3.28 feet	above ground	d '
*				 *

LATERAL DISTANCE (feet) (meters)	< MAJOR AXIS (mG)	AC M MI NOR/ MAJOR (RATI 0)	AGNETIC F VERTICAL COMP (mG)	HORI ZONTAI	_ RMS RESULTANT (mG)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	. 06 . 06 . 06 . 07 . 07 . 07 . 07 . 07 . 07 . 07 . 07	. 788 . 795 . 802 . 809 . 816 . 822 . 828 . 834 . 839 . 842 . 845 . 847 . 845 . 842 . 830 . 822	. 06 . 06 . 06 . 06 . 06 . 06 . 06 . 06	. 06 . 06 . 06 . 06 . 06 . 06 . 06 . 06	$\begin{array}{c} & 08 \\ & 08 \\ & 08 \\ & 08 \\ & 08 \\ & 08 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 09 \\ & 10 \\ & 10 \\ & 10 \end{array}$
-2650.0 -807.72 -2625.0 -800.10	. 08	. 812 . 800	. 06 . 06	. 08 . 08	. 10 . 10 . 10

$\begin{array}{c} -1415. 0\\ -1400. 0\\ -1385. 0\\ -1370. 0\\ -1385. 0\\ -1370. 0\\ -1325. 0\\ -1310. 0\\ -1295. 0\\ -1280. 0\\ -1265. 0\\ -1250. 0\\ -1250. 0\\ -1205. 0\\ -1205. 0\\ -1205. 0\\ -1205. 0\\ -1190. 0\\ -1175. 0\\ -1145. 0\\ -1145. 0\\ -1145. 0\\ -1145. 0\\ -1160. 0\\ -1145. 0\\ -1100. 0\\ -1025. 0\\ -1070. 0\\ -1085. 0\\ -1070. 0\\ -1055. 0\\ -1070. 0\\ -1055. 0\\ -1070. 0\\ -1055. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -995. 0\\ -595. 0\\ -595. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. 0\\ -575. $	$\begin{array}{c} -431. \ 29\\ -426. \ 72\\ -422. \ 15\\ -417. \ 58\\ -413. \ 00\\ -408. \ 43\\ -403. \ 86\\ -399. \ 29\\ -394. \ 72\\ -390. \ 14\\ -385. \ 57\\ -381. \ 00\\ -376. \ 43\\ -367. \ 28\\ -367. \ 28\\ -367. \ 28\\ -367. \ 28\\ -367. \ 28\\ -367. \ 28\\ -367. \ 28\\ -367. \ 28\\ -307. \ 85\\ -335. \ 28\\ -303. \ 28\\ -307. \ 85\\ -303. \ 28\\ -298. \ 70\\ -294. \ 13\\ -289. \ 56\\ -284. \ 99\\ -280. \ 42\\ -275. \ 84\\ -275. \ 56\\ -284. \ 99\\ -280. \ 42\\ -275. \ 56\\ -252. \ 98\\ -248. \ 41\\ -243. \ 84\\ -239. \ 27\\ -266. \ 70\\ -262. \ 13\\ -257. \ 56\\ -252. \ 98\\ -248. \ 41\\ -243. \ 84\\ -239. \ 27\\ -266. \ 70\\ -262. \ 13\\ -257. \ 56\\ -252. \ 98\\ -248. \ 41\\ -243. \ 84\\ -239. \ 27\\ -230. \ 12\\ -225. \ 55\\ -220. \ 98\\ -216. \ 41\\ -211. \ 84\\ -207. \ 26\\ -202. \ 69\\ -198. \ 12\\ -193. \ 55\\ -188. \ 98\\ -184. \ 40\\ -179. \ 83\\ -175. \ 26\\ -170. \ 69\\ -166. \ 12\\ -161. \ 54\\ \end{array}$	$\begin{array}{c} . 22 \\ . 23 \\ . 24 \\ . 24 \\ . 25 \\ . 26 \\ . 27 \\ . 28 \\ . 29 \\ . 312 \\ . 333 \\ . 335 \\ . 339 \\ . 41 \\ . 445 \\ . 445 \\ . 48 \\ . 552 \\ . 557 \\ . 59 \\ . 613 \\ . 668 \\ . 71 \\ . 77 \\ . 80 \\ . 994 \\ 1.07 \\ 1.17 \\ 1.29 \\ 1.35 \\ 1.58 \\ . 71 \\ 1.58 \\ . 77 \\ . 80 \\ . 994 \\ 1.07 \\ 1.17 \\ 1.29 \\ 1.35 \\ 1.58 \\ . 71 \\ 1.58 \\ . 77 \\ . 80 \\ . 994 \\ 1.07 \\ 1.17 \\ 1.29 \\ 1.35 \\ 1.58 \\ . 71 \\ 1.58 \\ . 71 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 81 \\ . 8$	$\begin{array}{c} . 103 \\ . 106 \\ . 107 \\ . 109 \\ . 110 \\ . 110 \\ . 111 \\ . 111 \\ . 111 \\ . 111 \\ . 110 \\ . 109 \\ . 108 \\ . 106 \\ . 105 \\ . 104 \\ . 102 \\ . 100 \\ . 098 \\ . 096 \\ . 094 \\ . 092 \\ . 090 \\ . 087 \\ . 085 \\ . 083 \\ . 096 \\ . 094 \\ . 092 \\ . 090 \\ . 087 \\ . 085 \\ . 083 \\ . 080 \\ . 078 \\ . 076 \\ . 085 \\ . 083 \\ . 080 \\ . 078 \\ . 076 \\ . 064 \\ . 062 \\ . 057 \\ . 055 \\ . 053 \\ . 067 \\ . 055 \\ . 053 \\ . 051 \\ . 048 \\ . 046 \\ . 044 \\ . 042 \\ . 057 \\ . 055 \\ . 053 \\ . 051 \\ . 048 \\ . 046 \\ . 044 \\ . 042 \\ . 041 \\ . 039 \\ . 035 \\ . 033 \\ . 032 \\ . 030 \\ . 029 \\ . 027 \\ . 026 \\ . 025 \\ . 023 \\ . 020 \\ . 021 \\ . 020 \\ . 019 \end{array}$	$\begin{array}{c} \text{B2H50004}\\ \begin{array}{c} & 20\\ & 20\\ & 21\\ & 22\\ & 22\\ & 23\\ & 24\\ & 25\\ & 25\\ & 26\\ & 27\\ & 28\\ & 29\\ & 29\\ & 30\\ & 31\\ & 32\\ & 33\\ & 34\\ & 35\\ & 37\\ & 38\\ & 39\\ & 40\\ & 42\\ & 43\\ & 44\\ & 46\\ & 47\\ & 49\\ & 51\\ & 52\\ & 54\\ & 56\\ & 58\\ & 60\\ & 63\\ & 65\\ & 58\\ & 60\\ & 63\\ & 65\\ & 58\\ & 60\\ & 63\\ & 65\\ & 58\\ & 60\\ & 63\\ & 65\\ & 58\\ & 60\\ & 63\\ & 65\\ & 58\\ & 60\\ & 63\\ & 65\\ & 58\\ & 60\\ & 70\\ & 73\\ & 76\\ & 79\\ & 82\\ & 85\\ & 93\\ & 97\\ & 1.01\\ & 1.06\\ & 1.11\\ & 1.06\\ & 1.11\\ & 1.66\\ & 1.75\\ \end{array}$	$\begin{array}{c} . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 1$	$\begin{array}{c} . \ 22 \\ . \ 23 \\ . \ 24 \\ . \ 25 \\ . \ 26 \\ . \ 27 \\ . \ 29 \\ . \ 29 \\ . \ 29 \\ . \ 29 \\ . \ 312 \\ . \ 334 \\ . \ 36 \\ . \ 37 \\ . \ 38 \\ . \ 39 \\ . \ 41 \\ . \ 44 \\ . \ 45 \\ . \ 52 \\ . \ 55 \\ . \ 57 \\ . \ 59 \\ . \ 61 \\ . \ 66 \\ . \ 71 \\ . \ 77 \\ . \ 80 \\ . \ 83 \\ . \ 90 \\ . \ 98 \\ 1. \ 07 \\ 1. \ 17 \\ 1. \ 23 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \\ 1. \ 57 \ 1. \ 57 \\ 1. \ 57 \ 1. \ 57 \\ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 57 \ 1. \ 1. \ 1. \ 1. \ 1. \ 1. \ 1. \ 1$
-590.0	-179.83	1.43	. 023	1. 41	. 19	1.43
-575.0	-175.26	1.50	. 022	1. 49	. 20	1.50
-560.0	-170.69	1.58	. 021	1. 57	. 21	1.58

$\begin{array}{c} -480. \ 0 \\ -470. \ 0 \\ -460. \ 0 \\ -450. \ 0 \\ -440. \ 0 \\ -430. \ 0 \\ -420. \ 0 \\ -410. \ 0 \\ -390. \ 0 \\ -390. \ 0 \\ -370. \ 0 \\ -370. \ 0 \\ -360. \ 0 \\ -370. \ 0 \\ -360. \ 0 \\ -370. \ 0 \\ -320. \ 0 \\ -320. \ 0 \\ -290. \ 0 \\ -290. \ 0 \\ -290. \ 0 \\ -290. \ 0 \\ -290. \ 0 \\ -260. \ 0 \\ -270. \ 0 \\ -260. \ 0 \\ -270. \ 0 \\ -260. \ 0 \\ -270. \ 0 \\ -260. \ 0 \\ -270. \ 0 \\ -260. \ 0 \\ -270. \ 0 \\ -260. \ 0 \\ -270. \ 0 \\ -260. \ 0 \\ -270. \ 0 \\ -210. \ 0 \\ -210. \ 0 \\ -110. \ 0 \\ -150. \ 0 \\ -160. \ 0 \\ -100. \ 0 \\ -100. \ 0 \\ -70. \ 0 \\ -50. \ 0 \\ -40. \ 0 \\ -20. \ 0 \\ -20. \ 0 \\ -10. \ 0 \\ -20. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -20. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10. \ 0 \\ -10.$	* * *	GENERATED	BLE NOIS	SE C POWER	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2.\ 16\\ 2.\ 25\\ 2.\ 35\\ 2.\ 46\\ 2.\ 57\\ 2.\ 69\\ 2.\ 92.\ 20\\ 3.\ 3.\ 3.\ 4.\ 4.\ 57\\ 3.\ 4.\ 5.\ 5.\ 5.\ 5.\ 5.\ 5.\ 5.\ 5.\ 5.\ 5$
		*********		L5	L	
BNDL #  1 2	Type AC AC	Summer Fa -60.66 -56.31		RAI N -45. 46 -42. 88 Page 8	RAI 	19

-49.19

Ŷ	3	AC	-60. 66		B2H50 -45.46
Ŧ			* * * * * * * * * * * * *	******	* * * * *
			*		*
			* AUDI BLE	NOI SE	*
			* (other m	ethods)	*
			*	,	*
			* Altitude	5000.	ft *
			*		*
			* * * * * * * * * * * * *	* * * * * * *	* * * * *

LATERAL DISTANCE (feet) (meters)	< FAI R WEATHER dB(A)	BPA ME L5 RAIN dB(A)	THOD L50 RAIN dB(A)	Ldn dB(A)	<- CRIE AVERAGE FAIR dB(A)	EdF L5 RAIN dB(A)	ENEL L5 RAI N dB(A)	I REQ L5 RAI N dB(A)
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c} 14.\ 3\\ 14.\ 4\\ 14.\ 5\\ 14.\ 6\\ 14.\ 5\\ 14.\ 6\\ 14.\ 7\\ 14.\ 8\\ 14.\ 9\\ 14.\ 9\\ 15.\ 12\\ 15.\ 3\\ 15.\ 3\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5\\ 15.\ 5$	$\begin{array}{c} 42.\ 6\\ 42.\ 7\\ 42.\ 7\\ 42.\ 8\\ 42.\ 9\\ 42.\ 9\\ 42.\ 9\\ 42.\ 9\\ 43.\ 0\\ 43.\ 1\\ 43.\ 2\\ 43.\ 2\\ 43.\ 3\\ 43.\ 43.\ 5\\ 43.\ 5\\ 43.\ 5\\ 43.\ 6\\ 43.\ 7\\ 43.\ 8\\ 43.\ 9\\ 44.\ 0\\ 44.\ 1\\ 44.\ 2\\ 44.\ 3\\ 44.\ 4\\ 44.\ 5\\ 5\\ 6\\ 44.\ 7\\ 44.\ 8\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\ 9\\ 44.\$	39. 1 39. 2 39. 3 39. 3 39. 4 39. 3 39. 4 39. 5 39. 6 39. 7 39. 3 39. 3 39. 4 39. 5 39. 7 39. 7 39. 3 39. 7 39. 3 39. 7 39. 3 39. 7 39. 3 39. 9 40. 0 40. 1 40. 2 40. 3 40. 4 40. 4 40. 5 5 6 6 6 7 7 7 8 8 8 9 9 9 40. 0 40. 1 40. 4 40. 5 40. 6 7 7 7 8 8 8 9 9 9 40. 0 40. 1 40. 5 40. 6 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $			$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $

-1955.0 -1940.0 -1925.0 -1910.0 -1895.0 -1880.0 -1865.0 -1850.0 -1835.0 -1820.0 -1820.0 -1805.0 -1790.0 -1775.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1745.0 -1655.0	-595.88 -591.31 -586.74 -582.17 -577.60 -573.02 -568.45 -563.88 -559.31 -554.74 -550.16 -545.59 -541.02 -531.88 -527.30 -522.73 -518.16 -513.59 -509.02 -504.44	$\begin{array}{c} 16.\ 4\\ 16.\ 5\\ 16.\ 5\\ 16.\ 5\\ 16.\ 6\\ 16.\ 7\\ 16.\ 7\\ 16.\ 8\\ 16.\ 9\\ 17.\ 0\\ 17.\ 0\\ 17.\ 1\\ 17.\ 1\\ 17.\ 2\\ 17.\ 2\\ 17.\ 2\end{array}$	$\begin{array}{c} 44.9\\ 45.0\\ 45.0\\ 45.1\\ 45.2\\ 45.2\\ 45.2\\ 45.2\\ 45.3\\ 45.5\\ 45.5\\ 45.5\\ 45.5\\ 45.5\\ 45.5\\ 45.5\\ 45.5\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\ 45.7\\$	$\begin{array}{c} 41.\ 4\\ 41.\ 5\\ 41.\ 5\\ 41.\ 5\\ 41.\ 5\\ 41.\ 6\\ 41.\ 7\\ 41.\ 7\\ 41.\ 7\\ 41.\ 7\\ 41.\ 8\\ 41.\ 9\\ 41.\ 9\\ 42.\ 0\\ 42.\ 0\\ 42.\ 0\\ 42.\ 1\\ 42.\ 2\\ 42.\ 2\\ 42.\ 2\end{array}$	50004 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $	$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $	$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $	$     \begin{array}{c}       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\       0 \\     $	
-1640.0 -1625.0 -1610.0 -1595.0 -1580.0 -1550.0 -1550.0 -1520.0 -1520.0 -1505.0 -1490.0 -1475.0 -1445.0 -1445.0 -1445.0 -1445.0 -1445.0 -1430.0 -1385.0 -1370.0 -1325.0 -1340.0 -1325.0 -1295.0 -1250.0 -1250.0 -1250.0 -1250.0	$\begin{array}{r} -499.87\\ -495.30\\ -490.73\\ -486.16\\ -481.58\\ -477.01\\ -472.44\\ -467.87\\ -463.30\\ -458.72\\ -454.15\\ -449.58\\ -445.01\\ -449.58\\ -445.01\\ -440.44\\ -435.86\\ -431.29\\ -426.72\\ -422.15\\ -417.58\\ -413.00\\ -408.43\\ -403.86\\ -399.29\\ -394.72\\ -390.14\\ -385.57\\ -381.00\\ -376.43\end{array}$	$\begin{array}{c} 17.\ 3\\ 17.\ 4\\ 17.\ 4\\ 17.\ 4\\ 17.\ 5\\ 17.\ 6\\ 17.\ 7\\ 17.\ 8\\ 17.\ 9\\ 17.\ 9\\ 17.\ 9\\ 18.\ 0\\ 18.\ 2\\ 18.\ 3\\ 18.\ 4\\ 18.\ 5\\ 18.\ 18.\ 5\\ 18.\ 6\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 5\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 7\\ 18.\ 18.\ 18.\ 18.\ 18.\ 18.\ 18.\ 18.\$	$\begin{array}{c} 45.8\\ 45.9\\ 45.9\\ 45.9\\ 45.9\\ 46.0\\ 46.1\\ 46.2\\ 46.2\\ 46.3\\ 46.4\\ 46.5\\ 46.6\\ 46.5\\ 46.6\\ 46.7\\ 46.8\\ 46.6\\ 46.7\\ 46.8\\ 46.9\\ 46.9\\ 47.0\\ 47.0\\ 47.1\\ 47.2\end{array}$	$\begin{array}{c} 42.\ 3\\ 42.\ 3\\ 42.\ 4\\ 42.\ 4\\ 42.\ 5\\ 42.\ 5\\ 42.\ 5\\ 42.\ 6\\ 42.\ 7\\ 42.\ 8\\ 42.\ 7\\ 42.\ 8\\ 42.\ 9\\ 43.\ 0\\ 43.\ 1\\ 43.\ 2\\ 43.\ 3\\ 43.\ 4\\ 43.\ 5\\ 43.\ 5\\ 43.\ 5\\ 43.\ 5\\ 43.\ 7\end{array}$	$\begin{array}{c} . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ 0$	$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $	$\begin{array}{c} . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ 0$	$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $	$\begin{array}{c} . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ . \\ 0 \\ 0$	
-1220. 0 -1205. 0 -1190. 0 -1175. 0 -1160. 0 -1145. 0 -1130. 0 -1115. 0 -1100. 0 -1085. 0 -1070. 0 -1055. 0 -1025. 0	-371.86 -367.28 -362.71 -358.14 -353.57 -349.00 -344.42 -339.85 -335.28 -330.71 -326.14 -321.56 -316.99 -312.42	$\begin{array}{c} 18.\ 7\\ 18.\ 8\\ 18.\ 8\\ 19.\ 0\\ 19.\ 0\\ 19.\ 0\\ 19.\ 2\\ 19.\ 2\\ 19.\ 3\\ 19.\ 4\\ 19.\ 5\\ 19.\ 6\end{array}$	47.2 47.3 47.4 47.5 47.5 47.6 47.7 47.7 47.7 47.8 47.9 47.9 48.0 48.1	43.7 43.8 43.9 44.0 44.0 44.1 44.2 44.2 44.2 44.3 44.4 44.4 44.4	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	. 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	. 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	. 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	. 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0	

$\begin{array}{cccccccccccccccccccccccccccccccccccc$
-307.85 -303.28 -298.70 -294.13 -298.70 -294.13 -289.56 -284.99 -280.42 -275.84 -275.84 -275.27.56 -252.98 -248.41 -239.27 -230.12 -225.55 -220.98 -234.70 -230.12 -225.55 -220.98 -211.84 -207.26 -198.12 -193.55 -188.98 -175.26 -175.26 -175.26 -175.40 -149.35 -146.30 -143.26 -149.35 -144.326 -124.97 -152.40 -149.35 -146.30 -149.35 -149.35 -121.92 -148.97 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.92 -121.
$\begin{array}{c} 19.\ 7\ 7\ 8\ 9\ 0\ 0\ 1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 0\ 1\ 2\ 3\ 4\ 5\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 5\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 5\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 5\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 5\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 5\ 5\ 7\ 8\ 0\ 1\ 2\ 2\ 2\ 2\ 2\ 2\ 2\ 2\ 2\ 2\ 2\ 2\ 2\$
$\begin{array}{c} 2&2&3&4&5&5&6&7&8&9&0&0&1&2&3&5&6&7&8&9&0&2&3&4&5&6&7&8&9&0&2&3&4&5&5&5&5&5&5&5&5&5&5&5&5&5&5&5&5&5&5$
$\begin{array}{c} \text{B2H!}\\ 44.\ 7\\ 44.\ 7\\ 44.\ 8\\ 45.\ 0\\ 45.\ 2\\ 45.\ 3\\ 45.\ 5\\ 56.\ 7\\ 89012345.\ 5\\ 56.\ 7\\ 89012345.\ 5\\ 56.\ 7\\ 89012345.\ 6\\ 78012346.\ 7\\ 47.\ 7\\ 47.\ 8012346.\ 7\\ 48.\ 12345.\ 6\\ 78012346.\ 7\\ 47.\ 8\\ 48.\ 8\\ 48.\ 8\\ 48.\ 9\\ 49.\ 1245.\ 6\\ 8902355.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 50.\ 5\\ 5\$
50004 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $

B2H50004										
-210.0	-64.01	27.4	55. <b>9</b>	52.4	. 0	. 0	. 0	. 0	. 0	. 0
-200.0	-60.96	27.7	56.2	52.7	. 0	. 0	. 0	. 0	. 0	. 0
-190.0	-57.91	27.9	56.4	52.9	. 0	. 0	. 0	. 0	. 0	. 0
-180.0	-54.86	28.2	56.7	53.2	. 0	. 0	. 0	. 0	. 0	. 0
-170.0	-51.82	28.4	56.9	53.4	. 0	. 0	. 0	. 0	. 0	. 0
-160.0	-48.77	28.7	57.2	53.7	. 0	. 0	. 0	. 0	. 0	. 0
-150.0	-45.72	29.1	57.6	54.1	. 0	. 0	. 0	. 0	. 0	. 0
-140.0	-42.67	29.4	57.9	54.4	. 0	. 0	. 0	. 0	. 0	. 0
-130.0	-39.62	29.8	58.3	54.8	. 0	. 0	. 0	. 0	. 0	. 0
-120.0	-36.58	30. 1	58.6	55.1	. 0	. 0	. 0	. 0	. 0	. 0
-110.0	-33.53	30.6	59.1	55.6	. 0	. 0	. 0	. 0	. 0	. 0
-100.0	-30.48	31.0	59.5	56.0	. 0	. 0	. 0	. 0	. 0	. 0
-90.0	-27.43	31.5	60.0	56.5	. 0	. 0	. 0	. 0	. 0	. 0
-80.0	-24.38	32.1	60.6	57.1	. 0	. 0	. 0	. 0	. 0	. 0
-70.0	-21.34	32.7	61.2	57.7	. 0	. 0	. 0	. 0	. 0	. 0
-60.0	-18. 29	33.3	61.8	58.3	. 0	. 0	. 0	. 0	. 0	. 0
-50.0	-15.24	34.0	62.5	59.0	. 0	. 0	. 0	. 0	. 0	. 0
-40.0	-12.19	34.8	63.3	59.8	. 0	. 0	. 0	. 0	. 0	. 0
-30.0	-9.14	35.4	63.9	60.4	. 0	. 0	. 0	. 0	. 0	. 0
-20.0	-6.10	35.9	64.4	60.9	. 0	. 0	. 0	. 0	. 0	. 0
-10.0	-3.05	36.3	64.8	61.3	. 0	. 0	. 0	. 0	. 0	. 0
. 0	. 00	36.5	65.0	61.5	. 0	. 0	. 0	. 0	. 0	. 0

Audible noise prediction methods do not apply to all line geometries, voltages, or weather conditions. If a prediction method does not apply, the appropriate output data column will be zeros.

#### B2H00006

## RESULTS OF ENVIRO PROGRAM

Single Circuit, 402 amp, 230-kV, H-Frame Structure at 5,000 ft elevation

* * * * * * * * * * * * * *	* * * * * * * * * * * * * * *	****	* * * * * * * * * *	****	* * * * * * * * * *	* * * * * * * * *		
*	* * * * * * * * * * * * * * *	BUNDLE		N **********	* * * * * * * * * * *	********		
	VOLTAGE OLTAGE ANGLE (KV) (DEG)		CURRENT ANGLE		I NATES   Y   (FT)	PHASE		
2 1	230.0   .0 230.0   240.0 230.0   120.0	402.0 402.0 402.0	. 0 240. 0 120. 0	1 -19.5 1 0 1 19.5 ****	20.0 20.0 20.0	A B C		
* * * * * * * * * * * * * * * *	MI NI MUM (	ROUND CLEAR		20.000 FT.	* * * * * * * * * *	*		
* * * * * * * * * * * * * * * * * * *	**************************************			AR BUNDLES	* * * * * * * * * * *	*		
BNDL   DI AM #   (I ******			RESIST. MS/MI)	AC RESIST. (OHMS/MI)	AC REAC	ХТ.		
2		000 000 000 *****	. 11520 . 11520 . 11520 . 11520	. 11700 . 11700 . 11700 . 11700	. 3990 . 3990 . 3990 . 3990	000		
BNDL # Ty	**************************************							
1 A 2 A 3 A	C 15.32 C 16.02	PEAK(+) 21.67 22.65 21.67	PEAK(-) -21.67 -22.65 -21.67					
<pre>     *********************************</pre>								
LATERAL DISTANCE (feet) (mete	FIELD E	NOR/MAJOR LLIPSE AXES (ratio)	S VERTICAL (kV/m)	. HORIZONTAL (kV/m)	SPACE POTENTI A (kV)	۸L		
-500.0 -152 -495.0 -150 -490.0 -149 -485.0 -147 -480.0 -146 -475.0 -144 -470.0 -143	. 88 . 002 . 35 . 002 . 83 . 002 . 30 . 002 . 78 . 002	. 002 . 002 . 002 . 002 . 002 . 002 . 002 . 002	. 002 . 002 . 002 . 002 . 002 . 002 . 002 Page 1	. 000 . 000 . 000 . 000 . 000	. 002 . 002 . 002 . 002 . 002 . 002 . 002	2 2 2 2		

			B2	H00006		
$\begin{array}{c} -150.\ 0\\ -145.\ 0\\ -145.\ 0\\ -140.\ 0\\ -135.\ 0\\ -125.\ 0\\ -120.\ 0\\ -125.\ 0\\ -125.\ 0\\ -105.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -10.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -10.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -15.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\ -10.\ 0\\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.\ 0\ -10.$	$\begin{array}{c} -45.\ 72\\ -44.\ 20\\ -42.\ 67\\ -41.\ 15\\ -39.\ 62\\ -38.\ 10\\ -36.\ 58\\ -35.\ 05\\ -33.\ 53\\ -32.\ 00\\ -30.\ 48\\ -27.\ 49\\ -27.\ 49\\ -25.\ 96\\ -27.\ 49\\ -24.\ 38\\ -25.\ 91\\ -24.\ 38\\ -21.\ 34\\ -19.\ 81\\ -18.\ 29\\ -16.\ 76\\ -15.\ 24\\ -13.\ 72\\ -12.\ 19\\ -10.\ 67\\ -9.\ 14\\ -7.\ 62\\ -9.\ 14\\ 10.\ 67\\ 12.\ 19\\ -10.\ 67\\ 12.\ 19\\ 13.\ 72\\ 15.\ 24\\ 16.\ 76\\ 18.\ 29\\ 19.\ 81\\ 22.\ 86\\ 24.\ 38\\ 25.\ 91\\ 27.\ 43\\ 28.\ 96\\ 30.\ 48\\ 32.\ 00\\ 33.\ 53\\ 35.\ 05\\ 36.\ 58\\ 38.\ 10\\ 39.\ 62\\ 41.\ 15\\ 42.\ 67\\ 44.\ 27\\ 44.\ 27\\ 44.\ 27\\ 44.\ 27\\ 44.\ 27\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ 77\\ 44.\ $	$\begin{array}{c} .056\\ .062\\ .069\\ .077\\ .086\\ .097\\ .109\\ .124\\ .142\\ .163\\ .188\\ .219\\ .258\\ .365\\ .442\\ .541\\ .670\\ .843\\ 1.076\\ 1.393\\ 1.830\\ 2.423\\ .365\\ .442\\ .541\\ .670\\ .843\\ 1.076\\ 1.393\\ 1.830\\ 2.423\\ 3.196\\ 4.090\\ 4.850\\ 5.003\\ 4.313\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.640\\ 3.196\\ 4.090\\ 4.850\\ 5.003\\ 4.313\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.640\\ 3.196\\ 4.090\\ 4.850\\ 5.003\\ 4.313\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.640\\ 3.196\\ 4.090\\ 4.850\\ 5.003\\ 4.313\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.386\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.373\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.366\\ 3.375\\ 3.36$	$\begin{array}{c} 001 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 001 \\ 001 \\ 001 \\ 001 \\ 002 \\ 002 \\ 002 \\ 002 \\ 003 \\ 004 \\ 004 \\ 005 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 006 \\ 005 \\ 007 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\$	$\begin{array}{c} . 056 \\ . 062 \\ . 069 \\ . 077 \\ . 086 \\ . 096 \\ . 109 \\ . 124 \\ . 141 \\ . 162 \\ . 187 \\ . 218 \\ . 256 \\ . 303 \\ . 363 \\ . 438 \\ . 536 \\ . 663 \\ . 833 \\ 1. 061 \\ 1. 372 \\ 1. 800 \\ 2. 383 \\ 3. 149 \\ 4. 052 \\ 4. 839 \\ 4. 998 \\ 4. 263 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365 \\ 3. 365$	$\begin{array}{c} . 004 \\ . 004 \\ . 005 \\ . 006 \\ . 008 \\ . 009 \\ . 011 \\ . 013 \\ . 015 \\ . 018 \\ . 023 \\ . 028 \\ . 035 \\ . 044 \\ . 057 \\ . 074 \\ . 097 \\ . 130 \\ . 177 \\ . 242 \\ . 331 \\ . 441 \\ . 548 \\ . 563 \\ . 364 \\ . 480 \\ 1. 084 \\ 1. 372 \\ 1. 218 \\ . 991 \\ 1. 218 \\ . 991 \\ 1. 218 \\ . 991 \\ 1. 218 \\ . 991 \\ 1. 218 \\ . 364 \\ . 480 \\ 1. 084 \\ 1. 372 \\ 1. 084 \\ . 480 \\ . 364 \\ . 563 \\ . 548 \\ . 441 \\ . 331 \\ . 242 \\ . 177 \\ . 130 \\ . 097 \\ . 074 \\ . 057 \\ . 044 \\ . 035 \\ . 028 \\ . 023 \\ . 013 \\ . 011 \\ . 009 \\ . 008 \\ . 006 \\ . 005 \\ . 004 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 005 \\ . 004 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 004 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 004 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 005 \\ . 004 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 004 \\ . 003 \\ . 003 \\ . 003 \\ . 005 \\ . 004 \\ . 003 \\ . 003 \\ . 003 \\ . 005 \\ . 004 \\ . 003 \\ . 003 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005$	$\begin{array}{c} . 056 \\ . 062 \\ . 069 \\ . 077 \\ . 086 \\ . 097 \\ . 109 \\ . 124 \\ . 142 \\ . 163 \\ . 188 \\ . 219 \\ . 258 \\ . 305 \\ . 441 \\ . 540 \\ . 669 \\ . 841 \\ 1. 073 \\ 1. 389 \\ 1. 821 \\ 2. 407 \\ 3. 165 \\ 4. 031 \\ 4. 747 \\ 4. 859 \\ 4. 170 \\ 3. 325 \\ 3. 258 \\ 3. 258 \\ 3. 258 \\ 3. 258 \\ 3. 325 \\ 4. 170 \\ 3. 325 \\ 3. 258 \\ 3. 258 \\ 3. 325 \\ 4. 170 \\ 3. 325 \\ 3. 258 \\ 3. 258 \\ 3. 258 \\ 3. 258 \\ 3. 258 \\ 3. 325 \\ 4. 170 \\ 3. 325 \\ 3. 258 \\ 3. 258 \\ 3. 258 \\ 3. 258 \\ 3. 325 \\ 4. 170 \\ 3. 365 \\ 2. 407 \\ 1. 389 \\ 1. 073 \\ . 841 \\ 3. 669 \\ . 540 \\ . 441 \\ 365 \\ . 258 \\ . 219 \\ . 188 \\ . 163 \\ . 142 \\ . 109 \\ . 067 \\ . 069 \\ . 051 \\ . 046 \end{array}$

				B2H0000			
480. 0 485. 0 490. 0 495. 0 500. 0	146. 30 147. 83 149. 35 150. 88 152. 40	. 002 . 002	. 002	2	)02 )02	. 000 . 000 . 000 . 000 . 000	. 002 . 002 . 002 . 002 . 002
۴ 		EACH BUNDL	 E: 				
	AC CU	RRENTS (Am	peres)		BUNDLE	POSI TI ON	
BNDL #	REAL	I MAGI NARY	ТОТА		(-COORD	Y-COORD	
		. 00 -348. 14 348. 14		2. 00 2. 00 2. 00 2. 00	-19. 50 . 00 19. 50	20. 00 20. 00 20. 00	
	* * * a	********** MAGNETIC t 3.28 f	FIELD PRO	)FI LE	*		
	* * * * * * * *	* * * * * * * * * *	* * * * * * * * *	*****	* * * * * *		
DIS (feet)	TERAL TANCE (meters)	< MAJOR AXIS (mG)	MINOR/ \	/FRTICAL H	HORI ZONTAL	RMS	
-500. 0 -495. 0 -490. 0 -485. 0 -480. 0 -475. 0 -470. 0 -465. 0 -460. 0 -455. 0	$\begin{array}{c} -152.\ 40\\ -150.\ 88\\ -149.\ 35\\ -147.\ 83\\ -146.\ 30\\ -144.\ 78\\ -143.\ 26\\ -141.\ 73\\ -140.\ 21\\ -138.\ 68\\ -137.\ 16\\ -135.\ 64\\ -134.\ 11\\ -132.\ 59\\ -131.\ 06\\ -129.\ 54\\ -128.\ 02\\ -126.\ 49\\ -128.\ 02\\ -126.\ 49\\ -124.\ 97\\ -123.\ 44\\ -121.\ 92\\ -120.\ 40\\ -118.\ 87\\ -117.\ 35\\ -115.\ 82\\ -114.\ 30\\ -112.\ 78\\ -111.\ 25\\ -109.\ 73\end{array}$	. 36 . 36 . 37 . 38 . 39 . 39 . 40 . 41 . 42 . 43	. 014 . 013 . 013 . 012 . 012 . 012 . 011 . 011 . 011 . 010	. 35 . 36 . 37 . 38 . 38 . 39 . 40 . 40	. 03 . 03 . 03 . 03 . 03 . 03 . 03 . 03	. 36 . 36 . 37 . 38 . 39 . 39 . 40 . 41 . 42 . 43	

. 70 Page 5

$\begin{array}{c} -350. \ 0\\ -345. \ 0\\ -345. \ 0\\ -335. \ 0\\ -335. \ 0\\ -325. \ 0\\ -325. \ 0\\ -315. \ 0\\ -305. \ 0\\ -295. \ 0\\ -295. \ 0\\ -290. \ 0\\ -285. \ 0\\ -275. \ 0\\ -275. \ 0\\ -265. \ 0\\ -265. \ 0\\ -245. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -245. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -245. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -240. \ 0\\ -255. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -155. \ 0\\ -30. \ 0\\ -30. \ 0\\ -35. \ 0\\ -30. \ 0\\ -35. \ 0\\ -30. \ 0\\ -35. \ 0\\ -30. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0\\ -35. \ 0$	$\begin{array}{c} -106.\ 68\\ -105.\ 16\\ -103.\ 63\\ -102.\ 11\\ -100.\ 58\\ -99.\ 06\\ -97.\ 54\\ -96.\ 01\\ -94.\ 49\\ -92.\ 96\\ -91.\ 44\\ -89.\ 92\\ -88.\ 39\\ -86.\ 87\\ -85.\ 34\\ -83.\ 82\\ -82.\ 30\\ -80.\ 77\\ -79.\ 25\\ -77.\ 72\\ -76.\ 20\\ -74.\ 68\\ -73.\ 15\\ -71.\ 63\\ -70.\ 10\\ -68.\ 58\\ -67.\ 06\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -59.\ 44\\ -57.\ 91\\ -56.\ 39\\ -54.\ 86\\ -53.\ 34\\ -51.\ 82\\ -50.\ 29\\ -48.\ 77\\ -47.\ 24\\ -45.\ 72\\ -44.\ 57.\ 91\\ -56.\ 39\\ -54.\ 86\\ -53.\ 34\\ -51.\ 82\\ -50.\ 29\\ -48.\ 77\\ -47.\ 24\\ -45.\ 72\\ -44.\ 57.\ 91\\ -56.\ 39\\ -54.\ 86\\ -53.\ 34\\ -51.\ 82\\ -50.\ 29\\ -48.\ 77\\ -47.\ 24\\ -45.\ 72\\ -44.\ 57.\ 91\\ -24.\ 38\\ -35.\ 05\\ -33.\ 53\\ -32.\ 00\\ -30.\ 48\\ -27.\ 43\\ -25.\ 91\\ -24.\ 38\\ -21.\ 34\\ -19.\ 81\\ -18.\ 77\\ -47.\ 72\\ -44.\ 75\\ -24.\ 38\\ -21.\ 34\\ -19.\ 81\\ -18.\ 77\\ -47.\ 24\\ -45.\ 72\\ -44.\ 38\\ -21.\ 34\\ -19.\ 81\\ -18.\ 77\\ -47.\ 72\\ -44.\ 75\\ -24.\ 38\\ -21.\ 34\\ -19.\ 81\\ -18.\ 77\\ -47.\ 24\\ -45.\ 72\\ -44.\ 38\\ -21.\ 34\\ -19.\ 81\\ -18.\ 77\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\ -16.\ 75\$	$\begin{array}{c} . \ 73 \\ . \ 75 \\ . \ 77 \\ . \ 79 \\ . \ 82 \\ . \ 84 \\ . \ 90 \\ . \ 93 \\ . \ 90 \\ . \ 99 \\ 1. \ 03 \\ 1. \ 06 \\ 1. \ 11 \\ 1. \ 12 \\ 1. \ 27 \\ 1. \ 37 \\ 1. \ 49 \\ 1. \ 52 \\ 1. \ 69 \\ 1. \ 77 \\ 1. \ 83 \\ 2. \ 23 \\ 2. \ 24 \\ 2. \ 31 \\ 2. \ 23 \\ 3. \ 50 \\ 3. \ 97 \\ 4. \ 53 \\ 2. \ 76 \\ 5. \ 76 \\ 6. \ 81 \\ 7. \ 45 \\ 5. \ 76 \\ 6. \ 81 \\ 7. \ 45 \\ 10 \\ 10 \\ 10 \\ 11 \\ 12 \\ 56 \\ 14 \\ 10 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 11 \\ 12 \\ 50 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 1$	$\begin{array}{c} . 004 \\ . 004 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\ . 000 \\$	$\begin{array}{c} \text{B2H00006} \\ . 72 \\ . 75 \\ . 77 \\ . 79 \\ . 81 \\ . 84 \\ . 87 \\ . 99 \\ . 92 \\ . 95 \\ . 99 \\ 1. 02 \\ 1. 05 \\ 1. 09 \\ 1. 13 \\ 1. 17 \\ 1. 22 \\ 1. 26 \\ 1. 31 \\ 1. 36 \\ 1. 42 \\ 1. 47 \\ 1. 54 \\ 1. 60 \\ 1. 67 \\ 1. 75 \\ 1. 83 \\ 1. 91 \\ 2. 00 \\ 2. 10 \\ 2. 20 \\ 2. 32 \\ 2. 44 \\ 2. 57 \\ 2. 71 \\ 2. 87 \\ 3. 04 \\ 3. 22 \\ 3. 64 \\ 3. 89 \\ 4. 15 \\ 4. 45 \\ 4. 77 \\ 5. 14 \\ 5. 54 \\ 6. 00 \\ 6. 51 \\ 7. 09 \\ 7. 75 \\ 8. 50 \\ 9. 36 \\ 10. 36 \\ 11. 51 \\ 12. 85 \\ 14. 41 \\ 16. 24 \\ 18. 39 \\ 20. 81 \\ \end{array}$	$\begin{array}{c} . \ 07 \\ . \ 08 \\ . \ 08 \\ . \ 09 \\ . \ 09 \\ . \ 09 \\ . \ 09 \\ . \ 09 \\ . \ 10 \\ . \ 11 \\ . \ 12 \\ . \ 13 \\ . \ 14 \\ . \ 15 \\ . \ 16 \\ . \ 17 \\ . \ 18 \\ . \ 12 \\ . \ 23 \\ . \ 27 \\ . \ 28 \\ . \ 33 \\ . \ 35 \\ . \ 38 \\ . \ 44 \\ . \ 48 \\ . \ 52 \\ . \ 37 \\ . \ 74 \\ . \ 810 \\ . \ 99 \\ 1. \ 123 \\ 1. \ 56 \\ 1. \ 76 \\ . \ 99 \\ 1. \ 138 \\ 1. \ 56 \\ 1. \ 76 \\ 2. \ 00 \\ 2. \ 64 \\ . \ 37 \\ 9. \ 10 \\ 1. \ 38 \\ 1. \ 56 \\ 1. \ 76 \\ 2. \ 00 \\ 2. \ 64 \\ 3. \ 59 \\ 4. \ 23 \\ 5. \ 03 \\ 6. \ 06 \\ 7. \ 37 \\ 9. \ 10 \\ 11. \ 40 \\ 3. \ 59 \\ 4. \ 23 \\ 5. \ 03 \\ 6. \ 06 \\ 7. \ 37 \\ 9. \ 10 \\ 11. \ 40 \\ 3. \ 59 \\ 4. \ 23 \\ 5. \ 03 \\ 6. \ 06 \\ 7. \ 37 \\ 9. \ 10 \\ 11. \ 40 \\ 3. \ 59 \\ 10 \\ 11. \ 40 \\ 14 \\ 5. \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ 14 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . \ 10 \\ . $	$\begin{array}{c} . \ 73 \\ . \ 75 \\ . \ 77 \\ . \ 79 \\ . \ 82 \\ . \ 87 \\ . \ 90 \\ . \ 99 \\ . \ 99 \\ 1. \ 0. \\ 1. \ 11 \\ 1. \ 12 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 \\ 1. \ 11 $
-80.0	-24.38	14. 20	. 027	12. 85	6.06	14.20
-75.0	-22.86	16. 18	. 031	14. 41	7.37	16.19
-70.0	-21.34	18. 61	. 035	16. 24	9.10	18.62
-65.0	-19.81	21. 62	. 040	18. 39	11.40	21.64

$\begin{array}{c} -20.0\\ -15.0\\ -15.0\\ -5.0\\ 5.0\\ 10.0\\ 25.0\\ 30.0\\ 35.0\\ 40.0\\ 45.0\\ 55.0\\ 40.0\\ 45.0\\ 55.0\\ 60.0\\ 55.0\\ 60.0\\ 55.0\\ 60.0\\ 77.0\\ 80.0\\ 99.0\\ 105.0\\ 125.0\\ 105.0\\ 125.0\\ 105.0\\ 125.0\\ 125.0\\ 140.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 145.0\\ 200.0\\ 210.0\\ 225.0\\ 235.0\\ 245.0\\ 255.0\\ 240.0\\ 255.0\\ 255.0\\ 265.0\\ 255.0\\ 265.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 275.0\\ 27$	-10.0 -5.0 .0
-0. 10 -4. 57 -3. 05 -1. 52 . 00 1. 52 3. 05 4. 57 6. 10 7. 62 9. 14 10. 67 12. 19 13. 72 15. 24 16. 76 18. 29 19. 81 21. 34 22. 38 25. 91 21. 34 22. 38 30. 48 32. 00 33. 53 36. 58 39. 62 41. 15. 24 16. 76 18. 29 19. 81 21. 34 22. 38 30. 48 32. 00 33. 53 36. 58 38. 10 24. 27 45. 72 47. 24 48. 77 50. 82 53. 34 54. 86 57. 91 59. 44 65. 53 66. 58 70. 10 71. 63 57. 91 59. 44 65. 53 66. 58 70. 10 77. 72 79. 25 80. 77 82. 30 83. 82	-3.05 -1.52 .00
$\begin{array}{c} 1.26\\ 142.52\\ 144.13\\ 139.30\\ 135.03\\ 139.31\\ 144.53\\ 131.71\\ 89.92\\ 70.89\\ 56.05\\ 44.55\\ 25.40\\ 211.60\\ 89.5\\ 44.55\\ 25.40\\ 211.60\\ 16.18\\ 14.55\\ 11.02\\ 9.03\\ 8.7.45\\ 5.762\\ 4.93\\ 3.59\\ 3.50\\ 22.61\\ 2.48\\ 2.24\\ 2.03\\ 1.85\\ 1.69\\ 22.61\\ 2.48\\ 2.24\\ 2.03\\ 1.85\\ 1.69\\ 2.55\\ 1.43\\ 1.32\\ 1.22\\ 1.85\\ 1.69\\ 2.55\\ 1.43\\ 1.32\\ 1.22\\ 1.85\\ 1.69\\ 2.55\\ 1.43\\ 1.32\\ 1.22\\ 1.18\\ 1.55\\ 1.43\\ 1.32\\ 1.22\\ 1.18\\ 1.55\\ 1.43\\ 1.32\\ 1.22\\ 1.18\\ 1.55\\ 1.43\\ 1.32\\ 1.22\\ 1.18\\ 1.55\\ 1.43\\ 1.32\\ 1.22\\ 1.18\\ 1.55\\ 1.43\\ 1.32\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.18\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.22\\ 1.$	144. 13 139. 30 135. 03
$\begin{array}{c} 246\\ 331\\ 446\\ 587\\ 673\\ 587\\ 446\\ 331\\ 248\\ 189\\ 147\\ 117\\ 095\\ 078\\ 065\\ 078\\ 065\\ 078\\ 065\\ 078\\ 065\\ 078\\ 078\\ 065\\ 078\\ 078\\ 078\\ 078\\ 078\\ 078\\ 077\\ 016\\ 011\\ 036\\ 020\\ 019\\ 017\\ 016\\ 017\\ 016\\ 011\\ 010\\ 010\\ 019\\ 017\\ 016\\ 011\\ 010\\ 010\\ 009\\ 009\\ 009\\ 008\\ 008\\ 008\\ 008\\ 00$	. 446 . 587 . 673
$\begin{array}{c} \text{63. 01}\\ 110.\ 68\\ 136.\ 35\\ 138.\ 94\\ 135.\ 03\\ 138.\ 95\\ 136.\ 36\\ 110.\ 69\\ 23.\ 94\\ 21.\ 52\\ 29.\ 81\\ 31.\ 48\\ 29.\ 71\\ 26.\ 78\\ 23.\ 71\\ 20.\ 88\\ 18.\ 39\\ 16.\ 24\\ 14.\ 41\\ 12.\ 84\\ 11.\ 50\\ 10.\ 35\\ 9.\ 36\\ 8.\ 50\\ 7.\ 75\\ 7.\ 09\\ 6.\ 51\\ 4.\ 77\\ 4.\ 415\\ 3.\ 64\\ 3.\ 42\\ 2.\ 20\\ 2.\ 10\\ 1.\ 82\\ 1.\ 67\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 47\\ 1.\ 60\\ 1.\ 53\\ 1.\ 60\\ 1.\ 53\\ 1.\ 60\\ 1.\ 53\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\\ 1.\ 60\ 1.\ 1.\ 1.\ 1.\ 1.\ 1.\ 1.\ 1.\ 1.\ 1.$	136. 35 138. 94 135. 03
$\begin{array}{c} 101.\ 42\\ 79.\ 42\\ 82.\ 33\\ 90.\ 92\\ 82.\ 33\\ 79.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 82.\ 33\\ 79.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ 42\\ 101.\ $	64. 85 88. 31 111. 15 118. 61 101. 42 79. 42 82. 33 90. 92
$ \begin{array}{c} 133.25\\ 150.12\\ 157.79\\ 161.50\\ 162.78\\ 161.57\\ 157.80\\ 155.26\\ 155.12\\ 157.80\\ 155.26\\ 113.57\\ 155.26\\ 113.57\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 25.45\\ 10.03\\ 10.03\\ 25.45\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 10.03\\ 1$	157. 79 161. 50 162. 78

$\begin{array}{c} 280. \ 0\\ 285. \ 0\\ 290. \ 0\\ 295. \ 0\\ 300. \ 0\\ 305. \ 0\\ 310. \ 0\\ 315. \ 0\\ 320. \ 0\\ 325. \ 0\\ 335. \ 0\\ 345. \ 0\\ 355. \ 0\\ 360. \ 0\\ 355. \ 0\\ 360. \ 0\\ 355. \ 0\\ 365. \ 0\\ 365. \ 0\\ 375. \ 0\\ 380. \ 0\\ 375. \ 0\\ 385. \ 0\\ 390. \ 0\\ 395. \ 0\\ 400. \ 0\\ 405. \ 0\\ 405. \ 0\\ 405. \ 0\\ 435. \ 0\\ 435. \ 0\\ 440. \ 0\\ 445. \ 0\\ 455. \ 0\\ 455. \ 0\\ 460. \ 0\\ 455. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 465. \ 0\\ 470. \ 0\\ 485. \ 0\\ 490. \ 0\\ 495. \ 0\\ 500. \ 0\\ 500. \ 0\\ \end{array}$	* * * *	GENERATED A (dB abo	LE NOI COUSTI ve 1uW	SE * C POWER *	$\begin{array}{c} . 14 \\ . 13 \\ . 13 \\ . 12 \\ . 11 \\ . 11 \\ . 10 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 09 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 07 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . 05 \\ . $	$\begin{array}{c} 1. \ 14 \\ 1. \ 10 \\ 1. \ 06 \\ 1. \ 02 \\ 996 \\ . \ 97 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ 87 \\ . \ $
BNDL #	Туре	Summer Fai		L5 RAI N	L50 RAI N	
	AC	-69. 04		-50. 33	-59. 77	
2 3	AC AC	-66.18 -69.04		-48.65 -50.33	-57.32 -59.77	
	* *	* * * * * * * * * * * * *	* * * * * *	* * * * *		

Ŷ



B2H00006

*	AUDI BLE NOI SE	*
*	(other methods)	*
*		*
*	Altitude 5000. ft	*
*		*
* *	* * * * * * * * * * * * * * * * * * * *	*

LATERAL DISTANCE (feet) (meters)	< FAIR WEATHER dB(A)	BPA ME L5 RAIN dB(A)	THOD L50 RAIN dB(A)	Ldn dB(A)	<- CRIE AVERAGE FAIR dB(A)	EdF L5 RAIN dB(A)	ENEL L5 RAIN dB(A)	I REQ L5 RAI N dB(A)
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c} 12.55\\ 12.6\\ 12.7\\ 12.8\\ 9\\ 0\\ 0\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 40.\ 9\\ 41.\ 0\\ 41.\ 1\\ 41.\ 2\\ 41.\ 3\\ 41.\ 3\\ 41.\ 3\\ 41.\ 5\\ 41.\ 5\\ 41.\ 5\\ 41.\ 6\\ 41.\ 7\\ 41.\ 9\\ 42.\ 0\\ 42.\ 2\\ 42.\ 3\\ 42.\ 42.\ 6\\ 42.\ 2\\ 42.\ 42.\ 6\\ 42.\ 3\\ 43.\ 1\\ 43.\ 3\\ 43.\ 6\\ 43.\ 43.\ 6\\ 43.\ 43.\ 43.\ 6\\ 43.\ 43.\ 43.\ 6\\ 43.\ 43.\ 43.\ 6\\ 43.\ 43.\ 43.\ 6\\ 43.\ 43.\ 43.\ 6\\ 43.\ 43.\ 43.\ 43.\ 43.\ 43.\ 43.\ 43.\$	37. 4 37. 5 37. 6 37. 7 37. 8 37. 7 37. 8 38. 9 38. 3 38. 3 39. 39. 39. 39. 39. 39. 39. 39. 39. 39.	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	. 0 . 0 . 0		$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $	

$\begin{array}{c} -245.\ 0\\ -240.\ 0\\ -235.\ 0\\ -235.\ 0\\ -220.\ 0\\ -225.\ 0\\ -205.\ 0\\ -205.\ 0\\ -205.\ 0\\ -195.\ 0\\ -195.\ 0\\ -195.\ 0\\ -175.\ 0\\ -175.\ 0\\ -165.\ 0\\ -155.\ 0\\ -160.\ 0\\ -155.\ 0\\ -160.\ 0\\ -155.\ 0\\ -140.\ 0\\ -155.\ 0\\ -140.\ 0\\ -155.\ 0\\ -100.\ 0\\ -105.\ 0\\ -105.\ 0\\ -105.\ 0\\ -105.\ 0\\ -55.\ 0\\ -85.\ 0\\ -85.\ 0\\ -85.\ 0\\ -85.\ 0\\ -85.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -20.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -20.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -20.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\ -55.\ 0\\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55.\ 0\ -55$
$\begin{array}{c} -74.\ 68\\ -73.\ 15\\ -71.\ 63\\ -70.\ 10\\ -68.\ 58\\ -67.\ 06\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -60.\ 96\\ -59.\ 44\\ -57.\ 91\\ -56.\ 39\\ -53.\ 32\\ -50.\ 29\\ -47.\ 24\\ -45.\ 72\\ -44.\ 20\\ -42.\ 67\\ -38.\ 10\\ -36.\ 58\\ -33.\ 53\\ -32.\ 00\\ -30.\ 48\\ -27.\ 43\\ -27.\ 43\\ -24.\ 38\\ -27.\ 43\\ -25.\ 24\\ -13.\ 72\\ -12.\ 19\\ -10.\ 67\\ -3.\ 05\\ -1.\ 52\\ -3.\ 05\\ -1.\ 52\\ -3.\ 05\\ -1.\ 52\\ -3.\ 05\\ -1.\ 52\\ -3.\ 05\\ -1.\ 52\\ -3.\ 05\\ -1.\ 52\\ -3.\ 05\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ -1.\ 52\\ $
$\begin{array}{c} 16.\ 1\ 2\ 3\ 4\ 5\ 6\ 7\ 9\ 0\ 1\ 2\ 4\ 5\ 6\ 8\ 9\ 1\ 3\ 4\ 6\ 8\ 9\ 1\ 3\ 5\ 7\ 0\ 2\ 5\ 7\ 0\ 3\ 6\ 9\ 3\ 6\ 1\ 5\ 0\ 5\ 1\ 8\ 5\ 1\ 6\ 0\ 3\ 5\ 6\ 5\ 3\ 0\ 6\ 1\ 5\ 8\ 1\ 5\ 0\ 5\ 1\ 6\ 1\ 5\ 8\ 1\ 5\ 0\ 5\ 1\ 6\ 1\ 5\ 8\ 1\ 5\ 0\ 5\ 1\ 6\ 1\ 5\ 8\ 1\ 5\ 0\ 5\ 1\ 6\ 1\ 5\ 8\ 1\ 5\ 0\ 5\ 1\ 6\ 1\ 5\ 8\ 1\ 5\ 1\ 5\ 1\ 6\ 1\ 5\ 8\ 1\ 5\ 1\ 5\ 1\ 6\ 1\ 5\ 1\ 5\ 1\ 6\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 5\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\$
$\begin{array}{c} 444.444.444.444.444.444.444.444.444.44$
$\begin{array}{c} 41.\ 0\\ 41.\ 2\\ 41.\ 3\\ 41.\ 41.\ 5\\ 41.\ 6\\ 7\\ 9\\ 0\\ 1\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\$
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
$\begin{array}{c} . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . $

$\begin{array}{c} 75.0\\ 80.0\\ 85.0\\ 90.0\\ 95.0\\ 100.0\\ 105.0\\ 110.0\\ 115.0\\ 120.0\\ 125.0\\ 130.0\\ 135.0\\ 145.0\\ 155.0\\ 160.0\\ 155.0\\ 160.0\\ 170.0\\ 175.0\\ 180.0\\ 175.0\\ 200.0\\ 205.0\\ 205.0\\ 200.0\\ 225.0\\ 220.0\\ 225.0\\ 230.0\\ 245.0\\ 240.0\\ 245.0\\ 255.0\\ 240.0\\ 245.0\\ 255.0\\ 240.0\\ 255.0\\ 240.0\\ 255.0\\ 255.0\\ 260.0\\ 255.0\\ 260.0\\ 255.0\\ 260.0\\ 255.0\\ 260.0\\ 275.0\\ 285.0\\ 290.0\\ 305.0\\ 315.0\\ 315.0\\ 315.0\\ 1\\ 340.0\\ 1\\ 345.0\\ 1\\ 355.0\\ 1\\ 350.0\\ 1\\ 355.0\\ 1\\ 360.0\\ 1\end{array}$
$\begin{array}{c} 21.34\\ 22.86\\ 24.38\\ 25.91\\ 27.43\\ 30.48\\ 32.03\\ 35.58\\ 39.48\\ 32.53\\ 56.58\\ 39.62\\ 41.17\\ 42.20\\ 41.17\\ 42.20\\ 45.72\\ 44.27\\ 55.33\\ 56.39\\ 57.91\\ 44.25\\ 53.36\\ 57.91\\ 44.25\\ 55.36\\ 64.01\\ 55.66\\ 62.48\\ 64.01\\ 65.53\\ 67.68\\ 57.91\\ 44.25\\ 57.91\\ 44.25\\ 57.91\\ 44.55\\ 57.91\\ 44.55\\ 57.91\\ 44.55\\ 57.91\\ 44.55\\ 67.68\\ 57.91\\ 44.01\\ 65.58\\ 77.72\\ 59.44\\ 65.58\\ 77.72\\ 59.44\\ 65.58\\ 77.72\\ 59.44\\ 65.58\\ 77.72\\ 59.44\\ 65.58\\ 77.72\\ 59.44\\ 65.58\\ 70.68\\ 57.91\\ 44.25\\ 77.72\\ 59.44\\ 65.58\\ 70.68\\ 57.91\\ 44.25\\ 77.56\\ 88.39\\ 94.49\\ 99.56\\ 88.39\\ 92.46\\ 99.58\\ 10.25\\ 77.55\\ 89.92\\ 44.69\\ 99.58\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10.25\\ 10$
$\begin{array}{c} 22.39\\ 21.30\\ 22.20\\ 20.20\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20.52\\ 20$
$\begin{array}{c} 50.8 \\ 4 \\ 9.5 \\ 1.8 \\ 49.5 \\ 20 \\ 7.5 \\ 20 \\ 8.4 \\ 1.8 \\ 20 \\ 49.5 \\ 20 \\ 7.5 \\ 20 \\ 1.8 \\ 20 \\ 47.5 \\ 1.9 \\ 47.5 \\ 20 \\ 47.5 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 9.8 \\ 7.6 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.0 \\ 1.$
$\begin{array}{c} \text{B2HOO}\\ 47.3\\ 46.9\\ 46.6\\ 46.3\\ 46.0\\ 45.7\\ 45.5\\ 45.2\\ 45.0\\ 44.7\\ 44.5\\ 44.3\\ 44.1\\ 43.9\\ 43.8\\ 43.4\\ 43.3\\ 43.1\\ 42.9\\ 43.8\\ 43.3\\ 43.3\\ 43.3\\ 42.9\\ 42.8\\ 42.5\\ 42.2\\ 42.1\\ 42.0\\ 41.9\\ 42.2\\ 42.1\\ 42.0\\ 41.9\\ 42.2\\ 42.1\\ 42.0\\ 41.9\\ 42.2\\ 42.1\\ 42.0\\ 41.9\\ 42.5\\ 42.4\\ 42.2\\ 42.1\\ 41.0\\ 40.9\\ 40.3\\ 40.5\\ 40.5\\ 40.4\\ 40.3\\ 40.5\\ 40.5\\ 40.4\\ 40.3\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 40.5\\ 4$

				B2F	100006					
385.0	117.35	13.7	42.2	38.7	. 0	. 0	. 0	. 0	. 0	. 0
390.0	118.87	13.7	42.2	38.7	. 0	. 0	. 0	. 0	. 0	. 0
395.0	120.40	13.6	42.1	38.6	. 0	. 0	. 0	. 0	. 0	. 0
400.0	121. 92	13.5	42.0	38.5	. 0	. 0	. 0	. 0	. 0	. 0
405.0	123.44	13.5	42.0	38.5	. 0	. 0	. 0	. 0	. 0	. 0
410.0	124.97	13.4	41.9	38.4	. 0	. 0	. 0	. 0	. 0	. 0
415.0	126.49	13.4	41.9	38.4	. 0	. 0	. 0	. 0	. 0	. 0
420.0	128.02	13.3	41.8	38.3	. 0	. 0	. 0	. 0	. 0	. 0
425.0	129.54	13.2	41.7	38.2	. 0	. 0	. 0	. 0	. 0	. 0
430.0	131.06	13.2	41.7	38.2	. 0	. 0	. 0	. 0	. 0	. 0
435.0	132.59	13.1	41.6	38.1	. 0	. 0	. 0	. 0	. 0	. 0
440.0	134.11	13.1	41.6	38.1	. 0	. 0	. 0	. 0	. 0	. 0
445.0	135.64	13.0	41.5	38.0	. 0	. 0	. 0	. 0	. 0	. 0
450.0	137.16	13.0	41.5	38.0	. 0	. 0	. 0	. 0	. 0	. 0
455.0	138.68	12.9	41.4	37.9	. 0	. 0	. 0	. 0	. 0	. 0
460.0	140.21	12.8	41.3	37.8	. 0	. 0	. 0	. 0	. 0	. 0
465.0	141.73	12.8	41.3	37.8	. 0	. 0	. 0	. 0	. 0	. 0
470.0	143.26	12.7	41.2	37.7	. 0	. 0	. 0	. 0	. 0	. 0
475.0	144.78	12.7	41.2	37.7	. 0	. 0	. 0	. 0	. 0	. 0
480.0	146.30	12.6	41.1	37.6	. 0	. 0	. 0	. 0	. 0	. 0
485.0	147.83	12.6	41.1	37.6	. 0	. 0	. 0	. 0	. 0	. 0
490.0	149.35	12.5	41.0	37.5	. 0	. 0	. 0	. 0	. 0	. 0
495.0	150.88	12.5	41.0	37.5	. 0	. 0	. 0	. 0	. 0	. 0
500.0	152.40	12.4	40.9	37.4	. 0	. 0	. 0	. 0	. 0	. 0

Audible noise prediction methods do not apply to all line geometries, voltages, or weather conditions. If a prediction method does not apply, the appropriate output data column will be zeros.

# B2H50005

#### RESULTS OF ENVIRO PROGRAM

Single Circuit, 515 amp, 138-kV, H-Frame Structure at 5,000 ft elevation

* * * * * * * * * * * * * * * * * * *		* * * * * * * * * * * * * * * * * * *	****	* * * * * * * * *	* * * * * * * *			
************************************	GE	**************************************	COORDI X (FT)		PHASE			
1       1       138.0       .0         2       1       138.0       240.0         3       1       138.0       120.0         ************************************	515.0	. 0   1   240. 0   1   120. 0   1	-13.5 .0 13.5	20.0 20.0 20.0 ********	A B C *******			
* MI NI MUM *****	GROUND CLEAR	RANCE = 20	0.000 FT.	* * * * * * * * *	*			
**************************************								
			CRESIST.	AC REAC (OHMS/MI				
1       . 574         2       . 574         3       . 574         . 574	. 000 . 000 . 000	. 23400 . 23400 . 23400 . 23400	. 23500 . 23500 . 23500 . 23500	. 4870 . 4870 . 4870 ******	00			
* * MAXIMUM SI *	JRFACE GRADII	**************************************						
BNDL # Type ACrm	S PEAK(+)	PEAK(-)						
1 AC 16.60 2 AC 17.50 3 AC 16.60	9 24.88	-23.60 -24.88 -23.60						
<pre>     *********************************</pre>								
LATERAL MAXIMUM DISTANCE FIELD (feet) (meters) (kV/m)	MINOR/MAJOR ELLIPSE AXES (ratio)	S VERTICAL H (kV/m)	IORIZONTAL (kV/m)	SPACE POTENTI A (kV)	L			
-500.0 -152.40 .001 -495.0 -150.88 .001 -490.0 -149.35 .001 -485.0 -147.83 .001 -480.0 -146.30 .001 -475.0 -144.78 .001 -470.0 -143.26 .001	. 003 . 003 . 003 . 003 . 003 . 003 . 003	. 001 . 001 . 001 . 001 . 001 . 001 . 001 Page 1	. 000 . 000 . 000 . 000 . 000 . 000 . 000 . 000	. 001 . 001 . 001 . 001 . 001 . 001 . 001				

			B2	H50005		
$\begin{array}{c} -150.\ 0\\ -145.\ 0\\ -145.\ 0\\ -140.\ 0\\ -135.\ 0\\ -125.\ 0\\ -120.\ 0\\ -125.\ 0\\ -125.\ 0\\ -105.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -95.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -25.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -10.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.\ 0\\ -55.$	$\begin{array}{c} -45.\ 72\\ -44.\ 20\\ -42.\ 67\\ -41.\ 15\\ -39.\ 62\\ -38.\ 10\\ -36.\ 58\\ -35.\ 05\\ -33.\ 53\\ -32.\ 00\\ -30.\ 48\\ -27.\ 91\\ -24.\ 86\\ -27.\ 91\\ -24.\ 86\\ -27.\ 91\\ -24.\ 86\\ -21.\ 34\\ -19.\ 81\\ -18.\ 29\\ -16.\ 72\\ -12.\ 19\\ -10.\ 67\\ -9.\ 14\\ -7.\ 62\\ -9.\ 14\\ -7.\ 62\\ -9.\ 14\\ 10.\ 67\\ -9.\ 14\\ 10.\ 67\\ -9.\ 14\\ 10.\ 67\\ 12.\ 72\\ 43.\ 96\\ 30.\ 48\\ 25.\ 91\\ 21.\ 34\\ 22.\ 86\\ 24.\ 38\\ 25.\ 91\\ 27.\ 43\\ 28.\ 96\\ 30.\ 48\\ 32.\ 00\\ 33.\ 53\\ 35.\ 05\\ 36.\ 58\\ 38.\ 10\\ 39.\ 62\\ 41.\ 15\\ 42.\ 67\\ 44.\ 272\\ 47.\ 27\\ 48.\ 77\\ \end{array}$	$\begin{array}{c} . 022 \\ . 024 \\ . 027 \\ . 030 \\ . 033 \\ . 037 \\ . 042 \\ . 047 \\ . 054 \\ . 061 \\ . 071 \\ . 082 \\ . 096 \\ . 113 \\ . 134 \\ . 161 \\ . 195 \\ . 240 \\ . 299 \\ . 377 \\ . 484 \\ . 629 \\ . 330 \\ 1. 104 \\ 1. 464 \\ 1. 887 \\ 2. 255 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 272 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 2. 255 \\ 1. 887 \\ 1. 464 \\ 1. 887 \\ 2. 255 \\ 1. 887 \\ 1. 464 \\ 1. 887 \\ 2. 255 \\ 1. 887 \\ 1. 464 \\ 1. 877 \\ 2. 299 \\ . 330 \\ 1. 966 \\ 1. 449 \\ 1. 272 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 272 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 272 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 449 \\ 1. 966 \\ 2. 330 \\ 1. 966 \\ 1. 429 \\ 1. 96 \\ 2. 330 \\ 1. 96 \\ 1. 429 \\ 1. 96 \\ 1. 429 \\ 1. 96 \\ 1. 429 \\ 1. 96 \\ 1. 429 \\ 1. 96 \\ 1. 429 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\ 1. 104 \\$	. 003 . 002 . 002 . 002 . 002 . 002 . 002 . 001 . 001 . 001 . 001 . 000 . 000 . 001 . 002 . 002 . 003 . 004 . 004 . 003 . 004 . 004 . 003 . 001 . 005 . 017 . 044 . 104 . 238 . 464 . 551 . 464 . 238 . 464 . 551 . 464 . 238 . 464 . 551 . 464 . 033 . 001 . 005 . 017 . 044 . 104 . 238 . 464 . 551 . 464 . 238 . 464 . 003 . 001 . 005 . 001 . 001 . 001 . 001 . 001 . 001 . 001 . 001 . 002 . 003 . 003	$\begin{array}{c} . 022 \\ . 024 \\ . 026 \\ . 029 \\ . 033 \\ . 037 \\ . 041 \\ . 047 \\ . 053 \\ . 061 \\ . 070 \\ . 082 \\ . 095 \\ . 112 \\ . 133 \\ . 160 \\ . 194 \\ . 238 \\ . 296 \\ . 373 \\ . 477 \\ . 619 \\ . 816 \\ 1. 085 \\ 1. 441 \\ 1. 868 \\ 2. 249 \\ 2. 327 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 2. 327 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 2. 327 \\ 2. 249 \\ 2. 327 \\ 2. 249 \\ 2. 327 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 2. 327 \\ 2. 249 \\ 2. 327 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 2. 327 \\ 2. 249 \\ 2. 327 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 2. 327 \\ 2. 249 \\ 2. 327 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 2. 327 \\ 2. 249 \\ 2. 327 \\ 1. 932 \\ 1. 423 \\ 1. 932 \\ 2. 327 \\ 2. 249 \\ 2. 327 \\ 1. 932 \\ 1. 411 \\ 1. 085 \\ 1. 441 \\ 1. 085 \\ 1. 441 \\ 1. 085 \\ 1. 441 \\ 1. 085 \\ 1. 441 \\ 1. 085 \\ . 011 \\ 0. 033 \\ . 029 \\ 0. 026 \\ . 024 \\ 0. 020 \\ 0. 018 \\ age \\ 3 \end{array}$	$\begin{array}{c} . 001 \\ . 002 \\ . 002 \\ . 002 \\ . 003 \\ . 003 \\ . 003 \\ . 004 \\ . 005 \\ . 006 \\ . 007 \\ . 008 \\ . 010 \\ . 012 \\ . 016 \\ . 020 \\ . 026 \\ . 033 \\ . 044 \\ . 059 \\ . 026 \\ . 033 \\ . 044 \\ . 059 \\ . 081 \\ . 111 \\ . 152 \\ . 205 \\ . 257 \\ . 270 \\ . 185 \\ . 271 \\ . 595 \\ . 725 \\ . 701 \\ . 725 \\ . 595 \\ . 271 \\ . 185 \\ . 270 \\ . 185 \\ . 271 \\ . 185 \\ . 270 \\ . 185 \\ . 271 \\ . 185 \\ . 270 \\ . 257 \\ . 205 \\ . 152 \\ . 111 \\ . 081 \\ . 059 \\ . 044 \\ . 033 \\ . 026 \\ . 020 \\ . 016 \\ . 012 \\ . 010 \\ . 008 \\ . 007 \\ . 006 \\ . 005 \\ . 004 \\ . 003 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 001 \\ . 001 \\ . 001 \\ \end{array}$	$\begin{array}{c} . 022 \\ . 024 \\ . 027 \\ . 029 \\ . 033 \\ . 037 \\ . 042 \\ . 047 \\ . 054 \\ . 061 \\ . 071 \\ . 082 \\ . 096 \\ . 113 \\ . 134 \\ . 161 \\ . 195 \\ . 240 \\ . 298 \\ . 376 \\ . 482 \\ . 627 \\ . 826 \\ 1. 097 \\ 1. 450 \\ 1. 859 \\ 2. 204 \\ 2. 251 \\ 1. 869 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 366 \\ 1. 183 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1. 376 \\ 1$

B2H	50005		
165.0 $50.29$ $0.16$ $003$ $170.0$ $51.82$ $015$ $003$ $175.0$ $53.34$ $014$ $003$ $180.0$ $54.86$ $013$ $003$ $185.0$ $56.39$ $012$ $003$ $190.0$ $57.91$ $011$ $003$ $205.0$ $62.48$ $009$ $003$ $205.0$ $62.48$ $009$ $003$ $210.0$ $64.01$ $008$ $003$ $215.0$ $65.53$ $008$ $003$ $225.0$ $68.58$ $007$ $003$ $230.0$ $70.10$ $006$ $003$ $240.0$ $73.15$ $006$ $003$ $240.0$ $73.15$ $006$ $003$ $245.0$ $74.68$ $005$ $003$ $255.0$ $77.72$ $005$ $003$ $255.0$ $77.72$ $004$ $003$ $255.0$ $80.77$ $004$ $003$ $265.0$ $80.77$ $004$ $003$ $275.0$ $83.82$ $004$ $003$ $285.0$ $86.87$ $003$ $003$ $300.0$ $91.44$ $003$ $003$ $290.0$ $88.39$ $003$ $003$ $300.0$ $91.44$ $003$ $003$ $300.0$ $97.54$ $002$ $003$ $300.0$ $97.54$ $002$ $003$ $325.0$ $99.06$ $002$ $003$ $300.0$ $11.278$ $002$ $003$ $300.0$ $106.68$ $002$ $003$ $325.0$ $102.11$ <	$\begin{array}{c}   50005 \\ & 016 \\ & 015 \\ & 014 \\ & 013 \\ & 012 \\ & 011 \\ & 009 \\ & 009 \\ & 009 \\ & 008 \\ & 007 \\ & 006 \\ & 006 \\ & 006 \\ & 006 \\ & 006 \\ & 005 \\ & 005 \\ & 005 \\ & 005 \\ & 005 \\ & 005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\ & 0005 \\$	$\begin{array}{c} 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 001 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\ 000 \\$	$\begin{array}{c} . 016 \\ . 015 \\ . 014 \\ . 013 \\ . 012 \\ . 011 \\ . 010 \\ . 009 \\ . 009 \\ . 009 \\ . 008 \\ . 007 \\ . 006 \\ . 006 \\ . 006 \\ . 006 \\ . 006 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 005 \\ . 006 \\ . 006 \\ . 006 \\ . 006 \\ . 007 \\ . 007 \\ . 006 \\ . 007 \\ . 007 \\ . 006 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 006 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 007 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 003 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 002 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\ . 001 \\$

480. 0 485. 0 490. 0 495. 0 500. 0		. 001 . 001 . 001 . 001 . 001	. 00 . 00 . 00 . 00 . 00	B2H50005 3 ( 3 ( 3 ( 3 ( 3 ( 3 ( 3 ( 3 ( 3 ( 3 (	5 001 001 001 001 001	. 000 . 000 . 000 . 000 . 000	. 001 . 001 . 001 . 001 . 001
AC CU	RRENTS IN	EACH BUNDL	 _E: 				
- BNDL	AC CU	RRENTS (An	nperes) -		BUNDLE I	POSI TI ON	
	REAL	I MAGI NARY			K-COORD	Y-COORD	
1 2	515.00 -257.50 -257.50	. 00 -446, 00	) 51 ) 51	5.00 5.00	-13.50 .00	20. 00 20. 00	
	*	********** MAGNETIC t 3.28 f	FIELD PR		*		
	*	****		•	*		
LA DIS (feet)	TERAL TANCE (meters)	MAJOR AXIS (mG)	MI NOR/ MAJOR (RATI 0)	AGNETIC FI VERTICAL F COMP (mG)	HORIZONTAI COMP I (mG)	L RMS RESULTANT (mG)	
-490.0 -485.0 -480.0 -475.0 -470.0 -465.0	$\begin{array}{c} -150.88\\ -149.35\\ -147.83\\ -144.78\\ -143.26\\ -144.78\\ -143.26\\ -141.73\\ -140.21\\ -138.68\\ -137.16\\ -135.64\\ -135.64\\ -134.11\\ -132.59\\ -131.06\\ -129.54\\ -128.02\\ -126.49\\ -128.02\\ -126.49\\ -123.44\\ -121.92\\ -120.40\\ -118.87\\ -117.35\\ -115.82\\ -114.30\\ -112.78\\ -111.25\\ -109.73\end{array}$	. 32 . 33 . 34	. 013 . 013 . 012 . 012	. 33 . 33 . 34 . 35 . 36 . 36	. 03 . 03 . 03 . 03 . 03 . 03	. 34	

. 61 . 62 Page 5

				B2H50005		
$\begin{array}{c} -350. \ 0\\ -345. \ 0\\ -345. \ 0\\ -335. \ 0\\ -330. \ 0\\ -325. \ 0\\ -320. \ 0\\ -315. \ 0\\ -305. \ 0\\ -305. \ 0\\ -295. \ 0\\ -295. \ 0\\ -290. \ 0\\ -285. \ 0\\ -275. \ 0\\ -275. \ 0\\ -275. \ 0\\ -265. \ 0\\ -265. \ 0\\ -255. \ 0\\ -255. \ 0\\ -240. \ 0\\ -235. \ 0\\ -245. \ 0\\ -240. \ 0\\ -235. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -245. \ 0\\ -205. \ 0\\ -205. \ 0\\ -205. \ 0\\ -205. \ 0\\ -215. \ 0\\ -1195. \ 0\\ -195. \ 0\\ -175. \ 0\\ -165. \ 0\\ -155. \ 0\\ -145. \ 0\\ -155. \ 0\\ -145. \ 0\\ -145. \ 0\\ -145. \ 0\\ -155. \ 0\\ -145. \ 0\\ -145. \ 0\\ -155. \ 0\\ -145. \ 0\\ -155. \ 0\\ -145. \ 0\\ -155. \ 0\\ -145. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -155. \ 0\\ -15$	$\begin{array}{c} -106.\ 68\\ -105.\ 16\\ -103.\ 63\\ -102.\ 11\\ -100.\ 58\\ -99.\ 06\\ -97.\ 54\\ -96.\ 01\\ -94.\ 49\\ -92.\ 96\\ -91.\ 44\\ -89.\ 92\\ -88.\ 39\\ -86.\ 87\\ -85.\ 34\\ -83.\ 82\\ -82.\ 30\\ -80.\ 77\\ -79.\ 25\\ -77.\ 72\\ -76.\ 20\\ -74.\ 68\\ -73.\ 15\\ -71.\ 63\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -65.\ 53\\ -64.\ 01\\ -62.\ 48\\ -55.\ 34\\ -57.\ 91\\ -56.\ 39\\ -55.\ 34\\ -51.\ 82\\ -50.\ 29\\ -44.\ 20\\ -45.\ 72\\ -44.\ 20\\ -45.\ 72\\ -44.\ 20\\ -45.\ 72\\ -44.\ 20\\ -45.\ 72\\ -44.\ 20\\ -45.\ 72\\ -44.\ 20\\ -45.\ 72\\ -44.\ 20\\ -45.\ 72\\ -44.\ 20\\ -45.\ 72\\ -44.\ 20\\ -45.\ 72\\ -38.\ 10\\ -36.\ 58\\ -35.\ 05\\ -33.\ 53\\ -32.\ 00\\ -30.\ 48\\ -27.\ 43\\ -25\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\ 91\\ -25.\$	$\begin{array}{c} . \ 64 \\ . \ 66 \\ . \ 68 \\ . \ 70 \\ . \ 72 \\ . \ 75 \\ . \ 77 \\ . \ 80 \\ . \ 82 \\ . \ 81 \\ . \ 91 \\ . \ 94 \\ . \ 97 \\ 1. \ 01 \\ 1. \ 04 \\ 1. \ 08 \\ 1. \ 12 \\ 1. \ 01 \\ 1. \ 04 \\ 1. \ 08 \\ 1. \ 12 \\ 1. \ 17 \\ 1. \ 26 \\ 1. \ 32 \\ 1. \ 37 \\ 1. \ 43 \\ 1. \ 97 \\ 2. \ 73 \\ 2. \ 73 \\ 2. \ 73 \\ 2. \ 73 \\ 2. \ 73 \\ 2. \ 73 \\ 2. \ 73 \\ 2. \ 73 \\ 2. \ 90 \\ 3. \ 28 \\ 3. \ 50 \\ 5. \ 94 \\ 6. \ 49 \\ 7. \ 12 \\ 7. \ 84 \\ 8. \ 68 \\ 9. \ 91 \\ 6. \ 91 \\ 1. \ 97 \\ 1. \ 84 \\ 8. \ 68 \\ 9. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 97 \\ 2. \ 73 \\ 2. \ 73 \\ 2. \ 90 \\ 3. \ 28 \\ 3. \ 50 \\ 5. \ 94 \\ 6. \ 49 \\ 7. \ 12 \\ 7. \ 84 \\ 8. \ 68 \\ 9. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1. \ 91 \\ 1.$	$\begin{array}{c} . \ 005 \\ . \ 004 \\ . \ 004 \\ . \ 004 \\ . \ 003 \\ . \ 003 \\ . \ 003 \\ . \ 003 \\ . \ 003 \\ . \ 003 \\ . \ 003 \\ . \ 003 \\ . \ 002 \\ . \ 002 \\ . \ 002 \\ . \ 002 \\ . \ 002 \\ . \ 002 \\ . \ 002 \\ . \ 002 \\ . \ 002 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 001 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\ . \ 000 \\$	$\begin{array}{c} . \ 64 \\ . \ 66 \\ . \ 68 \\ . \ 70 \\ . \ 72 \\ . \ 74 \\ . \ 77 \\ . \ 79 \\ . \ 82 \\ . \ 87 \\ . \ 90 \\ . \ 97 \\ 1. \ 00 \\ 1. \ 01 \\ . \ 25 \\ 1. \ 00 \\ 1. \ 01 \\ 1. \ 25 \\ 1. \ 30 \\ 1. \ 41 \\ 1. \ 69 \\ 1. \ 77 \\ 1. \ 85 \\ 1. \ 94 \\ 2. \ 15 \\ 2. \ 27 \\ 2. \ 39 \\ 2. \ 67 \\ 3. \ 91 \\ 4. \ 55 \\ . \ 69 \\ 4. \ 85 \\ 5. \ 69 \\ 6. \ 75 \\ 6. \ 75 \\ 6. \ 75 \\ 8. \ 98 \\ 8. \ 98 \\ \end{array}$	$\begin{array}{c} . \ 06 \\ . \ 07 \\ . \ 07 \\ . \ 07 \\ . \ 08 \\ . \ 08 \\ . \ 09 \\ . \ 09 \\ . \ 09 \\ . \ 09 \\ . \ 10 \\ . \ 11 \\ . \ 12 \\ . \ 12 \\ . \ 13 \\ . \ 14 \\ . \ 15 \\ . \ 16 \\ . \ 17 \\ . \ 18 \\ . \ 19 \\ . \ 22 \\ . \ 23 \\ . \ 25 \\ . \ 27 \\ . \ 29 \\ . \ 31 \\ . \ 33 \\ . \ 36 \\ . \ 39 \\ . \ 42 \\ . \ 49 \\ . \ 54 \\ . \ 59 \\ . \ 64 \\ . \ 71 \\ . \ 78 \\ . \ 86 \\ . \ 96 \\ 1. \ 07 \\ 1. \ 19 \\ 1. \ 34 \\ 1. \ 51 \\ 1. \ 72 \\ 1. \ 96 \\ 2. \ 25 \\ 2. \ 60 \\ 3. \ 03 \\ . \ 35 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 36 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 37 \\ . \ 3$	$\begin{array}{c} . \ 64 \\ . \ 68 \\ . \ 70 \\ . \ 72 \\ . \ 77 \\ . \ 80 \\ . \ 85 \\ . \ 91 \\ . \ 97 \\ 1. \ 01 \\ 1. \ 12 \\ 1. \ 12 \\ 1. \ 12 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 \\ 1. \ 13 $
-120.0 -115.0 -110.0 -105.0 -100.0 -95.0	-36.58 -35.05 -33.53 -32.00 -30.48 -28.96	5. 46 5. 94 6. 49 7. 12 7. 84 8. 68	. 008 . 009 . 010 . 011 . 012 . 013	5.25 5.69 6.19 6.75 7.40 8.13	1.51 1.72 1.96 2.25 2.60 3.03	5.46 5.94 6.49 7.12 7.84 8.68
-45.0 -40.0	-13.72 -12.19	36. 84 45. 61	. 055 . 067	26.36 29.26 Page 6	25. 81 35. 12	36. 89 45. 71

-35.0 -30.0	-10. 67 -9. 14	57.48 73.60	. 084 . 106	B2H50005 30. 93 28. 93	48. 69 68. 12	57.68 74.01
-25.0	-7.62	94.94	. 137	20. 05	93. 71	95.83
-20.0	-6.10	120.81	. 182	27. 19	119. 74	122.79
-15.0	-4.57	146.47	. 244	77. 08	129. 59	150.78
-10.0	-3.05	164. 15	. 328	132.89	110. 35	172.74
-5.0	-1.52	170. 62	. 420	164.35	84. 98	185.02
.0	.00	171. 10	. 466	171.10	79. 76	188.78
5.0	1.52	170. 62	. 420	164.36	84.98	185.03
10.0	3.05	164. 15	. 328	132.90	110.35	172.75
15.0	4.57	146. 48	. 244	77.09	129.59	150.79
20.0	6.10	120. 81	. 182	27.21	119.74	122.79
25.0	7.62	94.94	. 138	20.06	93. 71	95.83
30.0	9.14	73.60	. 106	28.94	68. 12	74.02
35.0	10.67	57.48	. 084	30.92	48. 69	57.68
40. 0	12. 19	45.61	. 068	29.26	35. 12	45. 71
45. 0	13. 72	36.84	. 055	26.36	25. 81	36. 89
50. 0	15. 24	30.27	. 046	23.29	19. 38	30. 30
55.0	16. 76	25.26	. 039	20. 45	14.85	25.27
60.0	18. 29	21.37	. 033	17. 96	11.60	21.38
65.0	19. 81	18.30	. 029	15. 82	9.21	18.30
70.0	21. 34	15. 83	. 025	13.99	7.43	15. 84
75.0	22. 86	13. 83	. 022	12.43	6.08	13. 84
80.0	24. 38	12. 18	. 020	11.10	5.03	12. 19
85.0	25. 91	10. 81	. 018	9.96	4.21	10. 81
90.0 95.0 100.0	23. 91 27. 43 28. 96 30. 48	9. 66 8. 68 7. 84	. 018 . 016 . 014 . 013	8. 98 8. 13 7. 40	3. 56 3. 03 2. 60	9. 66 8. 68 7. 84
105. 0	32.00	7.12	. 012	6.75	2. 25	7. 12
110. 0	33.53	6.49	. 011	6.19	1. 96	6. 49
115. 0	35.05	5.94	. 010	5.69	1. 72	5. 94
120. 0	36.58	5.46	. 010	5.24	1.52	5.46
125. 0	38.10	5.03	. 009	4.85	1.34	5.03
130. 0	39.62	4.65	. 008	4.50	1.19	4.65
135.0	41. 15	4.32	. 008	4. 18	1. 07	4.32
140.0	42. 67	4.02	. 007	3. 90	. 96	4.02
145.0	44. 20	3.74	. 007	3. 64	. 86	3.74
150.0	45. 72	3.50	. 007	3. 41	. 78	3.50
155.0 160.0 165.0	47.24 48.77 50.29	3. 28 3. 08 2. 89	. 006 . 006 . 006	3. 20 3. 01 2. 83	. 70 . 71 . 64 . 59	3. 28 3. 08 2. 89
170. 0	51.82	2.73	. 006	2.67	. 54	2.73
175. 0	53.34	2.57	. 006	2.53	. 49	2.57
180. 0	54.86	2.43	. 005	2.39	. 45	2.43
185.0	56. 39	2.30	. 005	2.27	. 42	2.30
190.0	57. 91	2.18	. 005	2.15	. 39	2.18
195.0	59. 44	2.07	. 005	2.04	. 36	2.07
200.0	60. 96	1.97	. 005	1.94	. 33	1.97
205.0	62. 48	1.88	. 005	1.85	. 31	1.88
210.0	64. 01	1.79	. 005	1.77	. 29	1.79
215.0	65.53	1. 71	. 005	1.69	. 27	1.71
220.0	67.06	1. 63	. 005	1.61	. 25	1.63
225.0	68.58	1. 56	. 005	1.54	. 23	1.56
230.0	70.10	1. 49	. 005	1.48	. 22	1.49
235.0 235.0 240.0 245.0	71. 63 73. 15 74. 68	1. 43 1. 37 1. 31	. 005 . 005 . 005 . 005	1.40 1.41 1.36 1.30	. 22 . 21 . 19 . 18	1. 43 1. 37 1. 31
250.0	76.20	1. 26	. 005	1. 25	. 17	1. 26
255.0	77.72	1. 21	. 005	1. 20	. 16	1. 21
260.0	79.25	1. 17	. 005	1. 16	. 15	1. 17
265. 0	80. 77	1. 12	. 005	1. 11	. 14	1. 12
270. 0	82. 30	1. 08	. 005	1. 07	. 14	1. 08
275. 0	83. 82	1. 04	. 005	1. 04	. 13	1. 04
				Page 7		

280.0	85.34	1.01	. 005	B2H50005 1.00	. 12	1.01
285.0	86.87	. 97	. 005	. 96	. 12	. 97
290.0	88.39	. 94	. 005	. 93	. 11	. 94
295.0	89.92	. 91	. 005	. 90	. 11	. 91
300.0	91.44	. 88	. 005	. 87	. 10	. 88
305.0	92.96	. 85	. 005	. 84	. 10	. 85
310.0	94.49	. 82	. 006	. 82	. 09	. 82
315.0	96.01	. 80	. 006	. 79	. 09	. 80
320.0	97.54	. 77	. 006	. 77	. 08	. 77
325.0	99.06	. 75	. 006	. 74	. 08	. 75
330.0	100. 58	. 72	. 006	. 72	. 08	. 72
335.0	102. 11	. 70	. 006	. 70	. 07	. 70
340.0	103. 63	. 68	. 006	. 68	. 07	. 68
345.0	105. 16	. 66	. 006	. 66	. 07	. 66
350.0	106. 68	. 64	. 007	. 64	. 06	. 64
355.0	108. 20	. 63	. 007	. 62	. 06	. 63
360.0 365.0	108.20 109.73 111.25 112.78	. 61 . 59	. 007 . 007	. 61 . 59	. 06 . 06	. 61 . 59
370.0 375.0 380.0	114. 30 115. 82	. 58 . 56 . 55	. 007 . 007 . 008	. 57 . 56 . 54	. 06 . 05 . 05	. 58 . 56 . 55
385.0	117.35	. 53	. 008	. 53	. 05	. 53
390.0	118.87	. 52	. 008	. 52	. 05	. 52
395.0	120.40	. 51	. 008	. 50	. 05	. 51
400. 0	121. 92	. 49	. 008	. 49	. 04	. 49
405. 0	123. 44	. 48	. 009	. 48	. 04	. 48
410. 0	124. 97	. 47	. 009	. 47	. 04	. 47
415.0	126. 49	. 46	. 009	. 46	. 04	. 46
420.0	128. 02	. 45	. 009	. 45	. 04	. 45
425.0	129. 54	. 44	. 010	. 43	. 04	. 44
430.0	131.06	. 43	. 010	. 42	. 04	. 43
435.0	132.59	. 42	. 010	. 41	. 04	. 42
440.0	134.11	. 41	. 010	. 41	. 04	. 41
445.0	135.64	. 40	. 011	. 40	. 03	. 40
450.0	137.16	. 39	. 011	. 39	. 03	. 39
455.0	138.68	. 38	. 011	. 38	. 03	. 38
460. 0	140. 21	. 37	. 012	. 37	. 03	. 37
465. 0	141. 73	. 36	. 012	. 36	. 03	. 36
470. 0	143. 26	. 36	. 012	. 36	. 03	. 36
475. 0	144. 78	. 35	. 012	. 35	. 03	. 35
480. 0	146. 30	. 34	. 013	. 34	. 03	. 34
485. 0	147. 83	. 33	. 013	. 33	. 03	. 33
490. 0	149.35	. 33	. 013	. 33	. 03	. 33
495. 0	150.88	. 32	. 014	. 32	. 03	. 32
500. 0	152.40	. 31	. 014	. 31	. 03	. 31
000.0		*******				
	* * * *	GENERATED A (dB abo	ove 1uW/	POWER * m) *		
		**********		L5	L50	
BNDL #  1	Type AC	Summer Fai 		RAIN 	RAI N - 70. 50	 )
2 3	AC AC	-75.78 -79.00		57. 92 59. 73	-67.7 [°] -70.50	
	* * * * * * * *	* * * * * * * * * * * * *	* * * * * * *	* * * * * * * * * * *	* * * * * *	

Ŷ

	B2H50005	
*	AUDI BLE NOLSE	*
*	NODI DEE NOTOE	*
*	Microphone is 5.00 feet above ground	*
*	Altitude 5000. ft	*
*		*
*	* * * * * * * * * * * * * * * * * * * *	۲*

#### <----- HVTRC CALCULATION METHOD ----->

LATERAL DISTANCE (feet) (meters)	L50 FAI R (dB(A))	L5 RAIN (dB(A))	L50 RAI N (dB(A))	Leq(24) (dB(A))	Ldn (dB(A))
$\begin{array}{c} -500.0 & -152.40 \\ -495.0 & -150.88 \\ -490.0 & -149.35 \\ -485.0 & -147.83 \\ -480.0 & -146.30 \\ -475.0 & -144.78 \\ -470.0 & -143.26 \\ -465.0 & -141.73 \\ -460.0 & -140.21 \\ -455.0 & -138.68 \\ -450.0 & -137.16 \\ -445.0 & -135.64 \\ -440.0 & -134.11 \\ -435.0 & -132.59 \\ -430.0 & -131.06 \\ -425.0 & -129.54 \\ -420.0 & -128.02 \\ -415.0 & -126.49 \\ -410.0 & -124.97 \\ -405.0 & -123.44 \\ -400.0 & -124.97 \\ -405.0 & -123.44 \\ -400.0 & -124.97 \\ -405.0 & -123.44 \\ -400.0 & -121.92 \\ -395.0 & -120.40 \\ -390.0 & -118.87 \\ -385.0 & -117.35 \\ -380.0 & -115.82 \\ -375.0 & -114.30 \\ -370.0 & -112.78 \\ -365.0 & -105.16 \\ -340.0 & -103.63 \\ -335.0 & -105.16 \\ -340.0 & -103.63 \\ -325.0 & -99.06 \\ -320.0 & -97.54 \\ -315.0 & -96.01 \\ -310.0 & -94.49 \\ -305.0 & -92.96 \\ -300.0 & -91.44 \\ -295.0 & -89.92 \\ -290.0 & -88.39 \\ -285.0 & -80.77 \\ -260.0 & -79.25 \\ \end{array}$	$\begin{array}{c} 16.5\\ 16.6\\ 16.7\\ 16.8\\ 16.9\\ 17.0\\ 17.1\\ 17.2\\ 17.2\\ 17.3\\ 17.4\\ 17.5\\ 17.5\\ 17.6\\ 17.7\\ 17.8\\ 17.9\\ 18.0\\ 18.0\\ 18.1\\ 18.2\\ 18.3\\ 18.4\\ 18.5\\ 18.6\\ 18.7\\ 18.8\\ 18.9\\ 19.0\\ 19.1\\ 19.2\\ 19.3\\ 19.4\\ 19.5\\ 19.6\\ 19.7\\ 19.8\\ 19.9\\ 20.0\\ 20.1\\ 20.2\\ 20.3\\ 20.4\\ 20.5\\ 20.6\\ 20.7\\ 20.8\\ \end{array}$	$\begin{array}{c} 35.2\\ 35.2\\ 35.3\\ 35.4\\ 35.5\\ 35.5\\ 35.6\\ 35.6\\ 35.7\\ 35.8\\ 35.8\\ 35.8\\ 35.8\\ 35.9\\ 36.0\\ 36.2\\ 36.2\\ 36.2\\ 36.2\\ 36.3\\ 36.2\\ 36.3\\ 36.6\\ 36.2\\ 36.3\\ 36.6\\ 36.3\\ 36.6\\ 36.6\\ 36.6\\ 36.6\\ 36.6\\ 36.7\\ 37.3\\ 37.3\\ 37.3\\ 37.4\\ 37.5\\ 37.6\\ 37.7\\ 37.8\\ 37.9\\ 38.0\\ 38.2\\ 38.8\\ 38.8\\ 38.6\\ 38.8\\ 38.6\\ 38.8\\ 38.6\\ 38.8\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 38.6\\ 39.6\\ 39.6\\ 39.6\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\ 39.5\\$	$\begin{array}{c} 24.8\\ 24.9\\ 25.0\\ 25.1\\ 25.2\\ 25.3\\ 25.4\\ 25.5\\ 25.6\\ 25.7\\ 25.8\\ 25.5\\ 25.6\\ 25.7\\ 25.8\\ 25.9\\ 26.0\\ 26.1\\ 26.2\\ 26.2\\ 26.3\\ 26.6\\ 26.7\\ 26.8\\ 26.6\\ 26.7\\ 26.8\\ 26.9\\ 27.0\\ 27.1\\ 27.2\\ 27.3\\ 27.4\\ 27.5\\ 27.6\\ 27.7\\ 27.8\\ 27.9\\ 28.0\\ 28.1\\ 28.3\\ 28.4\\ 28.5\\ 28.6\\ 28.7\\ 28.8\\ 28.9\\ 29.0\\ 29.1\\ \end{array}$	$\begin{array}{c} 23.3\\ 23.3\\ 23.3\\ 23.4\\ 23.5\\ 23.6\\ 23.6\\ 23.7\\ 23.8\\ 23.9\\ 23.9\\ 23.9\\ 24.0\\ 24.1\\ 24.2\\ 24.3\\ 24.4\\ 24.5\\ 24.3\\ 24.4\\ 24.5\\ 24.6\\ 24.7\\ 24.8\\ 24.9\\ 25.0\\ 25.1\\ 25.2\\ 25.3\\ 25.4\\ 25.5\\ 25.6\\ 25.7\\ 25.8\\ 25.6\\ 25.7\\ 25.8\\ 25.6\\ 25.7\\ 25.8\\ 25.6\\ 25.7\\ 25.8\\ 25.6\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.7\\ 26.8\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.5\\ 26.6\\ 26.5\\ 26.6\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\ 26.5\\$	$\begin{array}{c} 30.9\\ 31.0\\ 31.0\\ 31.1\\ 31.2\\ 31.3\\ 31.3\\ 31.4\\ 31.5\\ 31.6\\ 31.7\\ 31.8\\ 31.6\\ 31.7\\ 31.8\\ 31.9\\ 32.0\\ 32.1\\ 32.2\\ 32.3\\ 32.4\\ 32.5\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 32.6\\ 33.6\\ 33.6\\ 33.6\\ 33.6\\ 33.6\\ 34.6\\ 34.6\\ 34.8\\ 34.6\\ 34.6\\ 34.8\\ 34.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\ 35.6\\$
-255.0 -77.72	21.0	39.6	29.3	27.7	35.3

$\begin{array}{cccccccccccccccccccccccccccccccccccc$				B2	H50005		
	$\begin{array}{c} -245.0\\ -240.0\\ -235.0\\ -235.0\\ -225.0\\ -225.0\\ -225.0\\ -220.0\\ -215.0\\ -200.0\\ -205.0\\ -205.0\\ -190.0\\ -195.0\\ -190.0\\ -185.0\\ -175.0\\ -165.0\\ -155.0\\ -165.0\\ -155.0\\ -165.0\\ -155.0\\ -165.0\\ -155.0\\ -165.0\\ -155.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -105.0\\ -55.0\\ -50.0\\ -55.0\\ -55.0\\ -20.0\\ -55.0\\ -20.0\\ -15.0\\ -55.0\\ -20.0\\ -55.0\\ -20.0\\ -15.0\\ -55.0\\ -20.0\\ -55.0\\ -20.0\\ -55.0\\ -20.0\\ -55.0\\ -20.0\\ -55.0\\ -20.0\\ -55.0\\ -55.0\\ -20.0\\ -55.0\\ -55.0\\ -20.0\\ -55.0\\ -20.0\\ -55.0\\ -20.0\\ -55.0\\ -55.0\\ -20.0\\ -55.0\\ -25.0\\ -20.0\\ -55.0\\ -25.0\\ -25.0\\ -25.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0\\ -55.0$	-74.68 -73.15 -71.63 -70.10 -68.58 -67.06 -65.53 -64.01 -62.48 -60.96 -59.44 -57.91 -56.39 -54.864 -53.342 -51.229 -48.77 -47.24 -45.72 -44.20 -42.67 -41.15 -39.62 -38.10 -36.58 -33.53 -32.00 -30.48 -27.43 -25.91 -24.386 -27.43 -25.91 -24.386 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.24 -15.2	$\begin{array}{c} 21.\ 2\\ 21.\ 3\\ 21.\ 4\\ 21.\ 6\\ 21.\ 7\\ 21.\ 8\\ 21.\ 9\\ 22.\ 1\\ 22.\ 2\\ 22.\ 4\\ 22.\ 5\\ 22.\ 6\\ 22.\ 8\\ 22.\ 9\\ 23.\ 2\\ 23.\ 4\\ 23.\ 6\\ 23.\ 9\\ 23.\ 2\\ 23.\ 4\\ 23.\ 6\\ 23.\ 7\\ 23.\ 6\\ 24.\ 8\\ 25.\ 3\\ 25.\ 5\\ 25.\ 7\\ 26.\ 8\\ 27.\ 7\\ 28.\ 4\\ 29.\ 7\\ 28.\ 8\\ 29.\ 7\\ 28.\ 8\\ 29.\ 7\\ 33.\ 3\\ 34.\ 0\\ 34.\ 1\\ 34.\ 0\\ 33.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 32.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 3\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\ 33.\ 7\\$	$\begin{array}{c} 39.78\\ 39.9\\ 40.23\\ 40.40.40\\ 41.12\\ 41.12\\ 41.12\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.22\\ 42.222\\ 42.22\\ 42.222\\ 42.222\\ 42.22\\ 42.222\\ 42.222\\ 42.222\\ 42.222\\ $	$\begin{array}{c} 29.\ 4\\ 29.\ 6\\ 29.\ 7\\ 9\\ 30.\ 1\\ 29.\ 6\\ 30.\ 2\\ 30.\ 30.\ 2\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 30.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\ 10.\ 6\\$	$\begin{array}{c} \textbf{27.9}\\ \textbf{28.1}\\ \textbf{28.3}\\ \textbf{28.4}\\ \textbf{28.8}\\ \textbf{28.8}\\ \textbf{28.8}\\ \textbf{29.2}\\ \textbf{29.2}\\ \textbf{29.5}\\ \textbf{29.2}\\ \textbf{29.5}\\ \textbf{29.2}\\ \textbf{29.5}\\ \textbf{29.2}\\ \textbf{29.5}\\ \textbf{29.2}\\ \textbf{29.2}\\ \textbf{29.5}\\ \textbf{29.2}\\ \textbf{29.5}\\ 29.$	$\begin{array}{c} 5,789023467801346791346802468144444444444444444444444444444444444$
Page 10	oU. U	18.29	Zð. 4			30. I	42. ð

$\begin{array}{c} 65. \ 0\\ 70. \ 0\\ 75. \ 0\\ 85. \ 0\\ 90. \ 0\\ 95. \ 0\\ 105. \ 0\\ 120. \ 0\\ 125. \ 0\\ 125. \ 0\\ 145. \ 0\\ 145. \ 0\\ 155. \ 0\\ 145. \ 0\\ 155. \ 0\\ 145. \ 0\\ 155. \ 0\\ 165. \ 0\\ 175. \ 0\\ 225. \ 0\\ 235. \ 0\\ 245. \ 0\\ 245. \ 0\\ 245. \ 0\\ 255. \ 0\\ 245. \ 0\\ 255. \ 0\\ 265. \ 0\\ 275. \ 0\\ 285. \ 0\\ 305. \ 0\\ 315. \ 0\\ 325. \ 0\\ 335. \ 0\\ 335. \ 0\\ 345. \ 0\\ 345. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. \ 0\\ 355. $
$\begin{array}{c} 19. \ 81\\ 21. \ 34\\ 22. \ 86\\ 24. \ 38\\ 25. \ 91\\ 27. \ 43\\ 28. \ 96\\ 30. \ 48\\ 32. \ 00\\ 33. \ 53\\ 36. \ 58\\ 39. \ 62\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 67\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. \ 78\\ 412. $
$\begin{array}{c} 28.\ 0\\ 27.\ 7\\ 27.\ 0\\ 26.\ 5\\ 26.\ 0\\ 7\\ 5\\ 5\\ 25.\ 5\\ 25.\ 5\\ 25.\ 5\\ 24.\ 6\\ 5\\ 24.\ 2\\ 24.\ 5\\ 23.\ 2\\ 23.\ 2\\ 22.\ 2\\ 22.\ 2\\ 22.\ 2\\ 22.\ 2\\ 22.\ 2\\ 21.\ 6\\ 21.\ 2\\ 21.\ 2\\ 21.\ 2\\ 20.\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 3\\ 20.\ 6\\ 5\\ 4\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$
$\begin{array}{c} B2\\ 46.6\\ 46.3\\ 45.7\\ 45.4\\ 45.4\\ 44.6\\ 44.3\\ 44.4\\ 44.5\\ 44.4\\ 44.5\\ 44.4\\ 44.5\\ 44.4\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5\\ 44.5$
$\begin{array}{c} 2H50005\\ 36.3\\ 35.6\\ 35.3\\ 35.0\\ 34.8\\ 34.5\\ 34.3\\ 34.0\\ 33.8\\ 33.6\\ 33.3\\ 32.9\\ 32.7\\ 32.6\\ 32.2\\ 32.0\\ 31.7\\ 32.6\\ 32.2\\ 32.0\\ 31.7\\ 31.5\\ 31.4\\ 31.2\\ 31.1\\ 30.9\\ 30.6\\ 30.5\\ 30.4\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 29.7\\ 29.6\\ 28.8\\ 28.6\\ 28.6\\ 28.6\\ 28.6\\ 28.6\\ 28.6\\ 28.7\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27.6\\ 27$
$\begin{array}{c} 34.\ 7\\ 34.\ 1\\ 33.\ 5\\ 29.\ 7\\ 42.\ 0\\ 86.\ 42.\ 0\\ 30.\ 30.\ 9\\ 29.\ 65.\ 32.\ 29.\ 29.\ 29.\ 29.\ 29.\ 29.\ 29.\ 2$
$\begin{array}{c} 4 \ 0 \ 7 \ 4 \ 1 \ 8 \ 6 \ 3 \ 1 \ 8 \ 6 \ 4 \ 3 \ 1 \ 9 \ 7 \ 6 \ 4 \ 3 \ 1 \ 0 \ 8 \ 7 \ 6 \ 4 \ 3 \ 2 \ 0 \ 9 \ 8 \ 7 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ 9 \ 8 \ 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ 9 \ 8 \ 7 \ 6 \ 5 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ 9 \ 8 \ 7 \ 6 \ 5 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ 9 \ 8 \ 7 \ 6 \ 5 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ 9 \ 8 \ 7 \ 6 \ 5 \ 5 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ 9 \ 8 \ 7 \ 6 \ 5 \ 5 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ 9 \ 8 \ 7 \ 6 \ 5 \ 5 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ 9 \ 8 \ 7 \ 6 \ 5 \ 5 \ 5 \ 5 \ 5 \ 5 \ 5 \ 5 \ 5$

			B2	2H50005		
380.0	115.82	18.5	37.1	26.8	25.2	32.8
385.0	117.35	18.4	37.0	26.7	25.1	32.7
390. 0 395. 0	118. 87 120. 40	18.3 18.2	36. 9 36. 8	26.6 26.5	25.0 24.9	32.6 32.6
400.0	120.40	18.1	36.7	26.4	24.8	32.5
405.0	123.44	18.0	36.6	26.3	24.7	32.4
410.0	124.97	18.0	36.6	26.2	24.7	32.3
415.0	126.49	17.9	36.5	26.2	24.6	32.2
420.0	128.02	17.8	36.4	26.1	24.5	32.1
425.0	129.54	17.7	36.3	26.0	24.4	32.1
430. 0 435. 0	131.06 132.59	17.6 17.5	36.2 36.2	25.9 25.8	24.3 24.3	32. 0 31. 9
440.0	134.11	17.5	36.1	25.8	24.3	31.8
445.0	135.64	17.4	36.0	25.7	24.1	31.7
450.0	137.16	17.3	35.9	25.6	24.0	31.7
455.0	138.68	17.2	35.8	25.5	23.9	31.6
460.0	140.21	17.2	35.8	25.4	23.9	31.5
465.0	141. 73 143. 26	17.1	35.7	25.4 25.3	23.8	31.4
470. 0 475. 0	143.20	17.0 16.9	35.6 35.5	25.3	23.7 23.6	31.3 31.3
480.0	146.30	16. 8	35.5	25.1	23.6	31.2
485.0	147.83	16.8	35.4	25.1	23.5	31.1
490.0	149.35	16.7	35.3	25.0	23.4	31.0
495.0	150.88	16.6	35.2	24.9	23.3	31.0
500.0	152.40	16.5	35.2	24.8	23.3	30.9