

FORMULAR PARTICIPATIVAMENTE LOS PLANES DE MANEJO AMBIENTAL DE LOS  
PARQUES ECOLÓGICOS DISTRITALES DE HUMEDAL DE SALITRE, LA ISLA Y TUNJO

TOMO IV

LEVANTAMIENTO TOPOGRÁFICO DEL PARQUE ECOLÓGICO DISTRITAL DE HUMEDAL EL  
TUNJO

CONSORCIO JA, CONTRATO 01430 DE 2015

BOGOTÁ D.C., 2017



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# DIAGNOSTICO REGIONAL Y CARACTERIZACIÓN DEL PEDH TUNJO

FORMULAR PARTICIPATIVAMENTE LOS PLANES DE MANEJO AMBIENTAL DE LOS PARQUES ECOLÓGICOS DISTRITALES DE  
HUMEDAL DE SALITRE, LA ISLA Y TUNJO





## 1. INTRODUCCIÓN

Este tomo contiene las actividades de topografía realizadas en el marco del Plan de Manejo Ambiental de del Parque Ecológico Distrital de Humedal Tunjo. Se presenta la metodología y resultados obtenidos, se describen los procedimientos, cálculos, resultados y los planos obtenidos del trabajo de topografía; aclarando que la topografía base del presente informe, contempla el amojonamiento de las placas de amarre con topografía convencional.

## 2. AREA DE ESTUDIO

### 2.1 DELIMITACIÓN DEL ÁREA DE ESTUDIO

El PEDH declarado como Tunjo comprende un conjunto de seis (6) humedales riparios o de plano aluvial de la cuenca media del Río Tunjuelo, que se ubican a lo largo de su cauce (**Fotografía 1**), entre las localidades de Tunjuelito y Ciudad Bolívar.

Este PEDH limita por el oriente con la avenida Boyacá (carrera 25), subestación eléctrica del Sur, Portal El Tunal de Transmilenio; por el norte con el Centro de Reclusión de Adolescentes y Menores y el barrio Arborizadora Baja; con el barrio Tejar de Ontario y con el Colegio Cafam y por el occidente con los barrios Protecho, Casa Linda y por el sur con la Avenida Villavicencio.

**Fotografía 1** Vista panorámica área de estudio

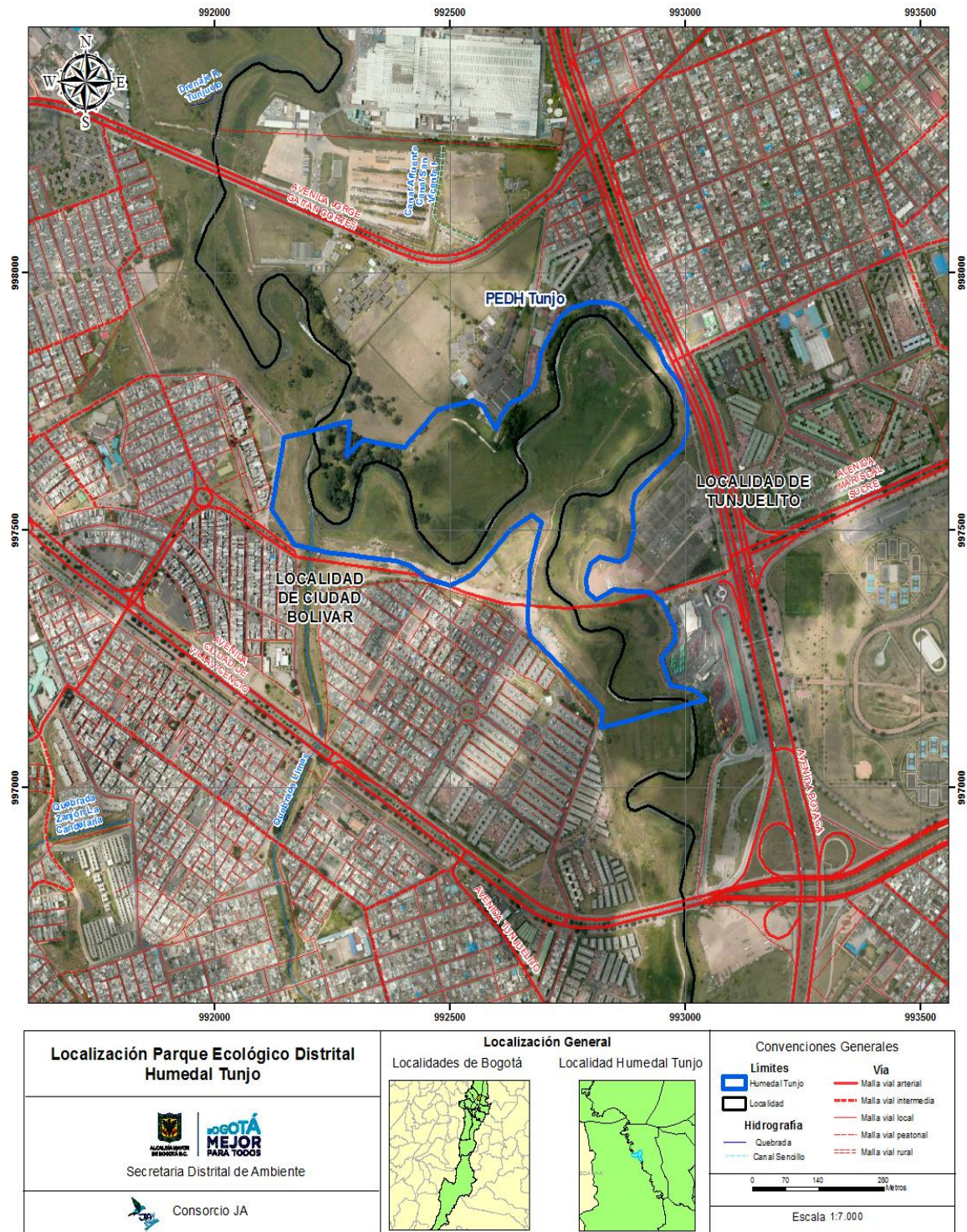


**Fuente:** Consorcio JA, 2017

La siguiente imagen ilustra la localización general del PEDH Tunjo objeto del levantamiento topográfico.



Imagen 1 Vista general área de estudio



Fuente: IDECA adaptado por Consorcio JA, 2017

### 3. TRABAJO DE CAMPO

#### 3.1 DESCRIPCIÓN DE LA METODOLOGÍA

El levantamiento topográfico se efectuó mediante la recopilación de series de información y procesamiento, lo cual permite determinar la configuración del terreno y la posición sobre la superficie de la tierra de elementos naturales y construidos procesándola y representándola en un plano. Los pasos desarrollados en este trabajo se enuncian a continuación y se describen a mayor detalle en el siguiente numeral:

1. Instalación de mojones de alinderamiento
2. Amarre
3. Planimetría
4. Localización límite oficial

#### 3.2 PERSONAL DE TOPOGRAFÍA

El Equipo de topografía en campo está compuesto por:

1. Topógrafos: Nilsen Reyes y Fernando Cruz, profesional egresado Sena y de la Universidad Distrital Francisco José de Caldas respectivamente. **(ANEXO 1)**.
2. Auxiliar 1: Liderman Agudelo
3. Auxiliar 2: Paulo Antonio Cruz.

A continuación, se describen los resultados obtenidos por el levantamiento topográfico realizado en el área de estudio.

### 4. RESULTADOS

#### 4.1. UBICACIÓN DE LOS PUNTOS DE APOYO EN CAMPO

Para el estudio topográfico, se ubicaron dos placas de aluminio instaladas (mojón) en zona blanda (Imagen 6), las cuales se constituyen como la base para el levantamiento planimétrico y altimétrico del área a levantar. A dichas placas se les dieron coordenadas desde los vértices CD -610 y CD - 611 (**Imagen 2**) certificados por el Agustín Codazzi.



Imagen 2 Localización Placas de amarre CD-610 y CD 611



Fuente: IDECA adaptado por Consorcio JA, 2017

#### 4.1.1. MOJÓN TU01

Localizado al costado norte del PEDH, sobre el sendero peatonal del Parque que es acceso al humedal desde la avenida Boyacá sentido Norte - Sur. Las coordenadas navegadas son:

Coordenadas geográficas  $-74^{\circ}8'58.147''$  W  $4^{\circ}34'35.995''$  N

Coordenadas planas 92 013.657 metros, 97 835.700 metros.

Imagen 3 Localización TU01



Fuente: Consorcio JA, 2017

#### 4.1.2. MOJÓN TU02

Localizado hacia la parte media del PEDH Tunjo, en la alameda que lo recorre de sur a norte; la cual se encuentra ubicada al costado de la cancha de futbol de Protecho, las coordenadas navegadas de este mojón son:

Coordenadas geográficas  $-74^{\circ}8'36.457''$  W  $4^{\circ}34'26.035''$  N

Coordenadas planas 92 681.492 metros y 97 529.661 metros.



**Imagen 4** Localización TU02



**Fuente:** Consorcio JA, 2017

#### 4.1.3. MOJÓN TU03

Localizado en la parte noroccidental del humedal, accediendo por el Barrio Arborizadora Baja por el cruce vial Calle 58 Bis Sur – Carrera 45 al lado de una Torre de energía, las coordenadas navegadas de este mojón son:

Coordenadas geográficas -74°8'27.543"W 4°34'35.162"N

Coordenadas planas 92 957.371 metros y 97 810.104 metros.

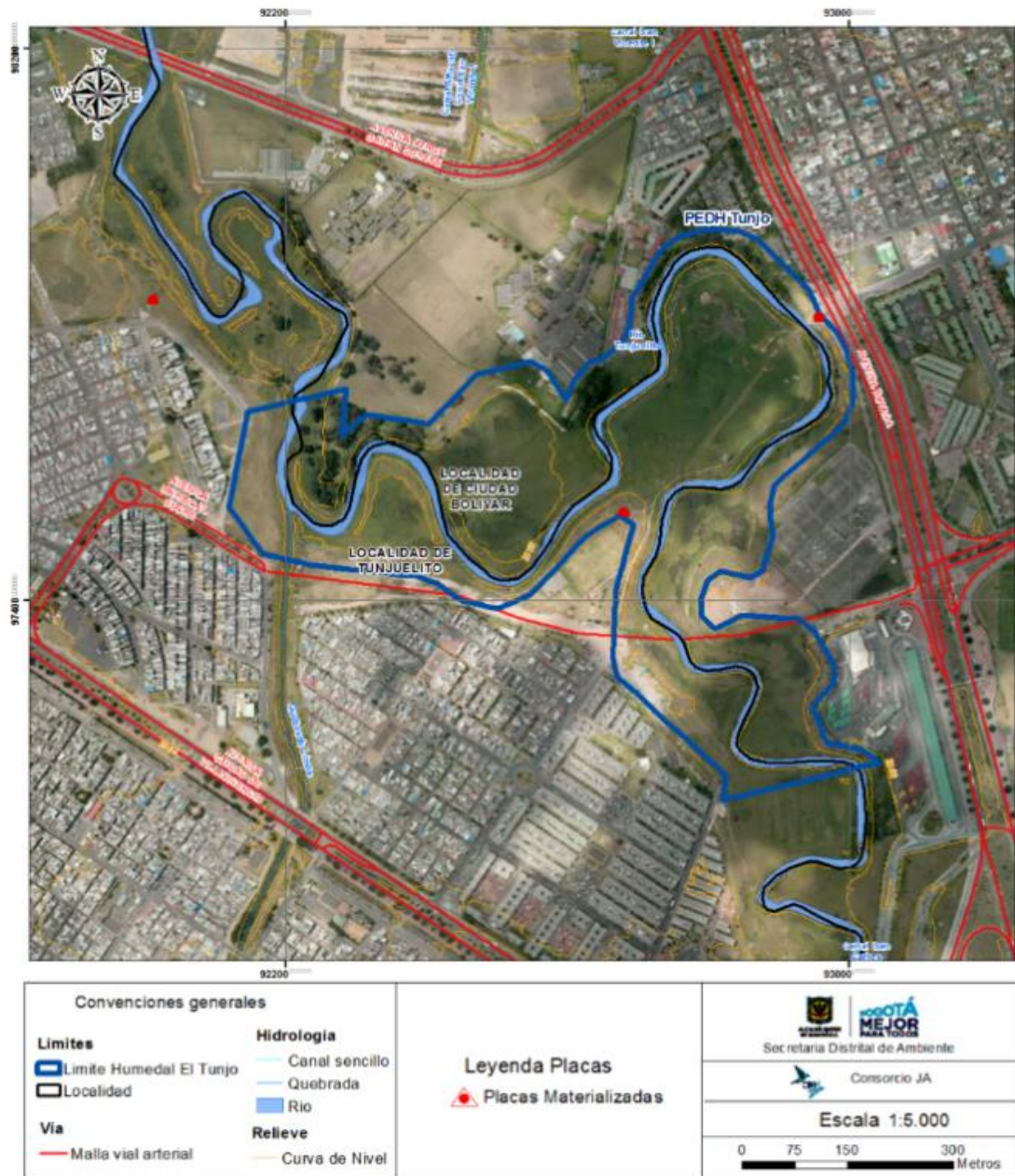
**Imagen 5** Localización TU03



**Fuente:** Consorcio JA, 2017

A continuación, se describe a detalle los pasos realizados en el levantamiento topográfico (ANEXO 2) realizado en el PEDH Tunjo, luego de la instalación de las placas materializadas en el área de estudio.

**Imagen 6.** Localización Placas materializadas (Mojones)



**Fuente:** IDECA adaptado por Consorcio JA, 2017



## 4.2. AMARRE

El trabajo de topografía para hacer el amarre de coordenadas se realizó con el equipo Estación total TOPCON GTS 225 (**ANEXO 3** y **ANEXO 4**).

**Imagen 7.**Topcon GTS-229



**Fuente:** Consorcio JA, 2017

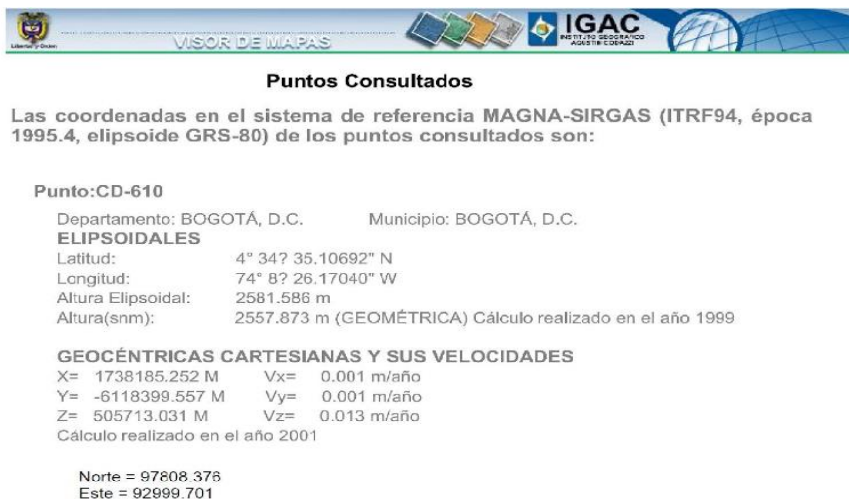
### 4.2.1. VÉRTICES BASE UTILIZADOS

Se utilizaron dos puntos certificados por el IGAC (Instituto Geográfico Agustín Codazzi) denominados CD – 610 y CD – 611 (**ANEXO 5**) localizados y materializados como aparece a continuación .

**Imagen 8.** Localización vértice IGAC CD -610

**Fuente:** IDECA adaptado por Consortio JA, 2017

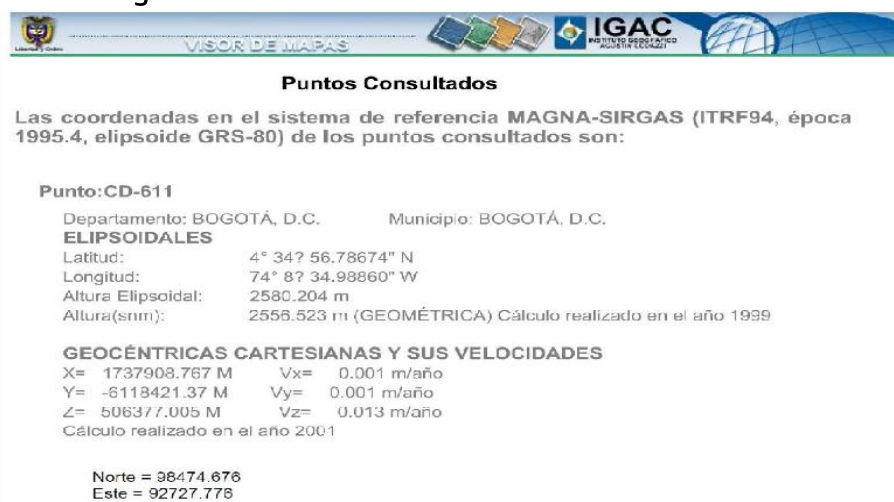
“El vértice CD -610 se encuentra en el separador central de la Avenida Boyacá, al costado sur de la intersección con la carrera 27, y en medio de dos torres de alta tensión al extremo norte de la zona verde del separador en cuestión. La marca central es un disco de bronce estándar del Instituto Geográfico Agustín Codazzi, enclavado en un mojón en concreto, el cual costa de una placa subterránea. El estampado exacto en dicho disco es: CD 610 DACD AÑO 86 – 96. En la **Imagen 9** se presentan las coordenadas de dicha placa y la transformación de éstas coordenadas cartesianas.

**Imagen 9. Coordenadas CD -610 – Coordenadas Cartesianas**

**Fuente:** Instituto Geográfico “Agustín Codazzi” (IGAC) adaptado por Consorcio JA, 2017

El segundo vértice tomando como señal el azimut fue el CD – 611 ( ), punto también certificado por el IGAC (Instituto Geográfico Agustín Codazzi). “El vértice CD – 611 se encuentra ubicado en un paso peatonal sobre el separador central de la avenida Boyacá, a 50 metros al norte de la carrera 33, frente a una garita de vigilancia de las instalaciones de Colmotores, como se ve en la **Imagen 11**.

La marca es un disco de bronce estándar del Instituto Geográfico Agustín Codazzi incrustado en el separador antes mencionado. El estampado exacto en el disco en cuestión es CD 611 DACD AÑO 86 -96. En la **Imagen 10** se presentan sus coordenadas y la transformación de las mismas a coordenadas cartesianas.

**Imagen 10. Coordenadas CD -611 – Coordenadas cartesianas**

**Fuente:** Instituto Geográfico Agustín Codazzi (IGAC) adaptado por Consorcio JA, 2017



Imagen 11. Localización vértice IGAC CD - 611



Fuente: IDECA adaptado por Consorcio JA, 2017

#### 4.2.2. POLIGONAL IMPLEMENTADA

Desde los puntos certificados por el IGAC, el CD-610 y el CD-611 (Imagen 12), se procedió a hacer una poligonal cerrada y trasladar coordenadas teniendo como resultado lo siguiente.



Imagen 12. Localización Poligonal



Fuente: IDECA adaptado por Consorcio JA, 2017

Y con los siguientes valores en los ajustes:

Imagen 13. Poligonal ajustada

PUNTO	Angulo Observado	Distancia Horizontal	Corr.	Angulo Corregido	Azimut	Rumbo	Proyecciones				Proyecciones Corregidas				Coordenadas		Coordenadas Corregidas		PUNTO
							E	W	N	S	E	W	N	S	NORTES	ESTES	NORTES	ESTES	
CD-610																			
	0° 0' 0.00"	719.494			337° 47' 57.00"	N 22° 12' 3.00" W													
CD-611															97808.376	92999.701	97808.376	92999.701	CD-610
	250° 55' 45"	425.431	0.00"	250° 55' 45.00"	228° 43' 42.00"	S 48° 43' 42.00" W		319.750		280.627		319.760		280.651					
TU02															97527.749	92679.951	97527.725	92679.941	TU02
	246° 2' 10"	735.418	1.25"	246° 2' 11.25"	294° 45' 53.25"	N 65° 14' 7.00" W		667.785	308.062			667.795	308.038						
TU03															97835.811	92012.166	97835.763	92012.146	TU03
	358° 47' 20"	722.499	1.25"	358° 47' 21.25"	113° 33' 14.50"	S 66° 26' 45.00" E	662.303			288.720	662.293			288.744					
D1															97547.091	92674.469	97547.019	92674.439	D1
	117° 39' 40"	417.279	1.25"	117° 39' 41.25"	51° 12' 55.75"	N 51° 12' 56.00" E	325.272		261.381		325.262		261.357						
CD610															97808.472	92999.741	97808.376	92999.701	CD610
	357° 30' 45"	425.423	1.25"	357° 30' 46.25"	228° 43' 42.00"	S		319.744		280.622		319.754		280.646					
TU02															97527.850	92679.997	97527.730	92679.947	TU02

No. De Vertices (n) =	4
Angulos Externos (X)	X
Angulos Internos (X)	
Suma Teórica $(180^\circ)(n-2)$	1080° 0' 0"
Suma Obtenida	1079° 59' 55"
Error en Angulo	5.0"
Aproximación Aparato	5"
Error Máx. Permis= $a/\text{Raiz}(n)$	10" O.K

$\Sigma E = 987.575$	$\Sigma N = 569.443$
$\Sigma W = 987.529$	$\Sigma S = 569.342$
$\Delta EW = 0.046$	$\Delta NS = 0.101$
$\Sigma E + \Sigma W = 1975.104$	$\Sigma N + \Sigma S = 1138.785$

Longitud Poligonal =	2300.619 m
Error= $\text{raiz}(\Sigma EW^2 + \Sigma NS^2)$	0.111
Cierre Obtenido =	1:20776
Cierre exigido =	1:25000

Fuente: Consorcio JA, 2017

### 4.3. PLANIMETRÍA

El levantamiento topográfico planimétrico se realizó a partir de la materialización de pares de placas en aluminio debidamente marcadas en las zonas objeto de estudio, su posicionamiento y cálculo de coordenadas, realizando la radicación desde los puntos posicionados tomando la información relevante para este trabajo, pozos, sumideros y acometidas domiciliarias de alcantarillado sanitario.

El equipo utilizado en el levantamiento planimétrico fue la estación Total Estación Nikon DTM-521\_E, con precisión angular a los 2" las especificaciones técnicas de equipo se encuentran en el **(ANEXO 4)**.

Adicionalmente, se localizaron en campo las estacas que definen el lindero del humedal en las zonas donde no tiene linderos compartidos con los predios de la zona

#### 4.3.1. LOCALIZACIÓN DE LIMITE DEL POLÍGONO OFICIAL

Esta labor se realizó por método de topografía convencional **(ANEXO 4)**, con equipos especializados para este fin, como lo es la estación total TOPCON GTS 229, se realizó a partir del listado oficial de coordenadas del polígono oficial del PEDH Tunjo, incluidas en el Acuerdo 577 de 2014 por el cual se declaró como humedal, **(ANEXO 6)**, y su replanteo localizando una estaca **(Imagen 14 y ANEXO 7)** en cada sitio donde las coordenadas lo determinaron.

Durante la actividad del replanteo **(Fotografía 2)** se evidenciaron cruces del polígono oficial con predios privados y zonas construidas (Reformatorio El Redentor, Subestación eléctrica, Colegio Cafam, Urbanización Tejar de Ontario), que al momento tenían un uso urbano consolidado preexistente que no está contemplado dentro de los usos permitidos en la normatividad para estos ecosistemas estratégicos de la Ciudad.

Con base a lo anterior se registró en Acta con fecha del 19 de abril de 2017, la aclaración linderos en el PEDH Tunjo, donde el topógrafo del consorcio JA evidencia que el polígono oficial tiene cruces con el centro de rehabilitación del redentor, con unas vías, con Transmilenio y con una estación eléctrica. Dado que el cruce corresponde a dos o tres metros se propuso que se realice la precisión del límite tomando como base el límite arcifinio. Lo anterior, dado que estos cruces pueden obedecer a errores de desplazamiento por escala, adicionalmente tomando en cuenta que esta infraestructura tiene ya un uso urbano consolidado.

Sin embargo, dado que el estudio de hidráulica realizado por la Empresa de Acueducto Alcantarillado y Aseo de Bogotá EAB ESP, mediante Contrato 1-2.-25100-01027 2016, con el Consorcio Corredor Ambiental Tunjuelo Chiguaza denominado *"Elaboración del Plan Maestro del Corredor Ambiental Tunjuelo Chiguaza y del Diseño detallado para la*



*Construcción de un Tramo de 11 Km del Corredor Ambiental que incluya todos los Diseños Técnicos y Económicos Necesarios para su Construcción y Sostenibilidad”, en el cual se determina que dichos predios corresponden a zona de inundación del río Tunjuelo, se decidió realizar el levantamiento de los puntos tomados en la delimitación establecida en el acuerdo 577 de 2014 y tomar estos como límite oficial y no los límites arcifinios de los predios antes mencionados.*

No obstante, en el levantamiento topográfico se tomaron detalles de los linderos de dichos predios los cuales se describen a continuación:

- En el caso del centro de rehabilitación del redentor se detalló el muro que delimita el predio, en el caso de Transmilenio se detalló el lindero correspondiente a la cerca en malla de este predio, para los demás cruces con infraestructura se detallaron los respectivos linderos. **(Imagen 15)**
- A partir de los acuerdos establecidos en dicha acta se procedió a realizar una nueva visita de campo para completar las actividades de replanteo, verificando las coordenadas de los límites de los predios privados, anteriormente mencionados **(Fotografía 2 e Imagen 15).**

Los planos obtenidos de este levantamiento topográfico correspondientes al polígono oficial, y el son presentados en Formato DWG: AUTOCAD y en Formato SHAPE, ArcGis como parte del anexo cartográfico del presente Plan de Manejo ambiental del PEDH El Tunjo (Tomo V).



Imagen 14. Estacas instaladas en el replanteo.



Fuente: IDECA adaptado Consorcio JA, 2017



Imagen 15. Límites arcifinios identificados en el PEDH Tunjo



Fuente: IDECA adaptado Consorcio JA, 2016



**Fotografía 2** Evidencia del levantamiento topográfico y Estacas instaladas en el replanteo.



**Fuente:** Consorcio JA, 2017

A partir del levantamiento topográfico se identificaron cruces con infraestructura preexistente, que no era compatible con los usos establecidos para el área protegida del PEDH Tunjo, sin embargo estos predios se encuentran en áreas susceptibles a inundación y



en la franja definida como Ronda Hidráulica para este ecosistema, por lo cual no fueron sustraídas del polígono oficial.

A continuación, se presentan los planos de redelimitación del Humedal (Imagen 16) obtenidos en el análisis de la imagen satelital del Portal IDECA y las coordenadas (ANEXO 6) y los planos de trabajo de campo (ANEXO 8) obtenidos a partir del replanteo realizado en este levantamiento topográfico:

**Imagen 16.** Propuesta de Redelimitación precisión límites



**Fuente:** IDECA adaptado Consorcio JA, 2016

## 5. ANEXOS LEVANTAMIENTO TOPOGRÁFICO

**ANEXO 1:** Licencia profesional y certificado de vigencia

**ANEXO 2:** Resultados campo levantamiento topográfico

**ANEXO 3:** Certificados calibración equipos

**ANEXO 4:** Especificaciones técnicas equipos

**ANEXO 5:** Certificaciones Instituto Geográfico Agustín Codazzi (IGAC)

**ANEXO 6:** Coordenadas replanteo polígono oficial y re delimitación por precisión de límites

**ANEXO 7:** Coordenadas Estacas Replanteo

**ANEXO 8:** Planos de trabajo de campo

## ANEXO 1

# LICENCIA PROFESIONAL Y CERTIFICADO DE VIGENCIA







República de Colombia  
**CONSEJO PROFESIONAL NACIONAL DE TOPOGRAFÍA**  
Ley 70 / 79



**CERTIFICADO DE VIGENCIA No: 3528**

**EL DIRECTOR EJECUTIVO DEL CONSEJO PROFESIONAL NACIONAL  
DE TOPOGRAFÍA**

**HACE CONSTAR**

Que el(a) Señor(a) **JESÚS FERNANDO CRUZ ACERO**, identificado(a) con cedula de ciudadanía No. **79.753.536** de **Santafé de Bogotá, D.C.**, figura registrado(a) como **TECNÓLOGO EN TOPOGRAFÍA**, bajo la Licencia Profesional No. **01-11452** según Resolución No. **02-1453** del **11/oct/2005**, aprobada mediante acta No. **102** del **11/oct/2005** con base en el título conferido por: **UNIVERSIDAD DISTRITAL FRANCISCO JOSE DE CALDAS**.

Que el(a) Señor(a) **JESÚS FERNANDO CRUZ ACERO**, tiene vigente su inscripción ante el CONSEJO PROFESIONAL NACIONAL DE TOPOGRAFÍA y a la fecha **NO PRESENTA ANTECEDENTES DISCIPLINARIOS**, que lo(a) inhabiliten en el ejercicio de su profesión.

La presente constancia tiene una vigencia de seis (06) meses a partir de la fecha de expedición.

Dada en Bogotá, D.C. a los **18 días del mes de abril de 2016**

**HENRY ISAIAS CARRILLO RODRIGUEZ**  
**Director Ejecutivo**

Nota: este Certificado de Vigencia forma parte integral de la LICENCIA PROFESIONAL junto con la Tarjeta y la Resolución Motivada.  
ELABORÓ: FLOR BAUTISTA

C.V. No. 0582/2016



# ANEXO 2

## RESULTADOS CAMPO LEVANTAMIENTO TOPOGRAFICO

1. Carteras Crudas
2. Coordenadas
3. Secciones transversales

## 1. CARTERAS CRUDAS

CO,Nikon RAW data format V2.00  
 CO,Dist Units: Metres  
 CO,Angle Units: Degrees  
 CO,Zero azimuth: North  
 CO,Zero VA: Zenith  
 CO,Coord Order: NEZ  
 CO,HA Raw data: Azimuth  
 CO,Sea Level Adjustment: Off  
 CO,Scale Adjustment: Off  
 CO,Scale Factor: 1.0000  
 CO,C & R Adjustment: On  
 CO,C & R Coefficient: 0.1320  
 CO,SpectraRawdata  
 CO,TUNJO  
 CO,Description:  
 CO,Client:  
 CO,Comments:  
 CO,Downloaded1127-08-2815:35:54  
 CO,Software:Pre-installversion:14.10.15  
 CO,Instrument:SpectraFOCUS2100261  
 CO,DistUnits:Metres  
 CO,AngleUnits:DDMMSS  
 CO,Zeroazimuth:North  
 CO,VA:Zenith  
 CO,CoordOrder:NEZ  
 CO,HARawdata:HAzerotoBS  
 CO,Projectioncorrection:ON  
 CO,C&Rcorrection:OFF  
 CO,TiltCorrection:OFF  
 CO,TUNJO<JOB>Created330-03-1915:45:59  
 MP,1,,97465.8860,92416.4700,2583.3300,GPS1  
 MP,2,,97541.9176,92189.6524,2582.3652,GPS2  
 CO,Temp:18.0CPress:560.0mmHgPrism:17mm0330.03.1916:05:36  
 ST,1,,2,,1.5050,288.31541,0.00000  
 F1,2,1.6700,0.0000,0.00000,90.11330,16:05:38  
 CO,Temp:18.0CPress:560.0mmHgPrism:17mm0330.03.1916:07:08  
 ST,1,,2,,1.5050,288.31541,0.00000  
 F1,2,1.6700,0.0000,0.00000,90.11330,16:07:08  
 SS,3,1.6700,239.2230,0.00000,90.11330,16:07:24,GPS2  
 CO,Temp:18.0CPress:560.0mmHgPrism:17mm0330.03.1916:08:26  
 ST,1,,3,,1.5050,288.31541,0.00000  
 F1,3,1.6700,0.0000,0.00000,90.11330,16:08:27

SS,4,1.6700,13.7460,44.55040,113.34580,16:20:52,LAM  
 SS,5,1.6700,19.9940,60.11380,105.25560,16:21:47,LAM  
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SS,721,2.0000,352.0310,135.32340,90.28400,19:56:42,PN  
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 SS,2073,1.6700,15.5420,63.11190,90.14260,17:16:50,PN  
 SS,2074,1.6700,16.5640,68.21490,93.51550,17:17:11,PN  
 SS,2075,1.6700,17.5880,82.20320,94.51200,17:17:27,PN  
 SS,2076,1.6700,20.8980,87.53480,95.45060,17:17:44,PN  
 SS,2077,1.6700,27.6340,73.33020,93.56570,17:18:10,PN  
 SS,2078,1.6700,24.5630,67.47000,92.14410,17:20:45,PN  
 SS,2079,1.6700,24.7660,59.50120,92.08500,17:21:09,PN  
 SS,2080,1.6700,25.5040,52.26440,89.14400,17:21:35,PN  
 SS,2081,1.6700,37.2120,45.25170,90.36480,17:21:57,PN  
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 SS,2084,3.6000,59.2530,44.37040,90.54050,17:24:48,PN  
 SS,2085,3.6000,54.0410,42.57290,89.51070,17:25:22,PN  
 SS,2086,3.6000,46.3710,37.03440,88.01220,17:26:26,PN  
 SS,2087,3.6000,45.9460,27.40500,88.36360,17:27:01,PN  
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 SS,2090,3.6000,20.0380,224.05130,92.07550,17:29:38,BRIO  
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 SS,2287,3.6000,209.2590,208.55200,90.45440,18:00:47,PN  
 SS,2288,3.6000,232.7510,208.55200,90.31480,18:00:58,PN  
 SS,2289,3.6000,202.8110,205.03530,91.01100,18:01:40,PN  
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SS,4325,1.6750,7.3570,38.44340,92.09580,19:00:14,CERRAM  
SS,4326,1.6750,91.0890,208.16390,90.07300,19:00:55,CERRAM  
SS,4327,1.6750,6.5980,137.47390,92.37240,19:01:13,CERRAM  
SS,4328,1.6750,58.2570,202.58040,90.06460,19:02:10,CERRAM  
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SS,4330,1.6750,39.4820,195.31540,90.37010,19:03:11,CERRAM  
SS,4331,1.6750,26.4150,183.28040,90.38280,19:03:36,CERRAM  
SS,4332,1.6750,10.6470,193.05130,89.15190,19:04:11,PN  
SS,4333,1.6750,10.8150,227.17330,90.09530,19:04:42,PN  
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SS,4345,1.6750,83.8890,212.08200,90.03390,19:12:43,PN  
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SS,4356,1.6750,101.8420,212.21530,90.06510,19:49:08,PN  
SS,4357,1.6750,110.3870,212.34440,90.04480,19:49:24,PN  
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SS,4359,1.6750,123.3960,212.43520,90.01500,19:52:03,PN  
SS,4360,1.6750,133.2430,212.42150,90.02480,19:52:29,PN  
SS,4361,1.6750,142.4600,212.32300,90.03250,19:53:10,PN  
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## 2. COORDENADAS

PN	ESTE	NORTE	COTA	PD
643	92654,314	97628,667	2577,696	BORRIO
938	92692,554	97758,828	2581,236	CERRAM
575	92671,377	97606,919	2577,359	BORRIO
3527	92018,861	97809,381	2581,464	CERCA
3941	91957,311	98183,975	2577,573	PN
2295	92877,233	97090,087	2578,366	PN
2955	92243,285	97588,894	2577,255	PN
3872	91925,303	98164,142	2579,309	PN
1107	92382,906	97628,919	2578,078	PN
339	92326,264	97589,007	2578,769	PN
4217	92098,865	97831,074	2577,122	PN
1433	92789,764	97420,456	2583,830	PN
1736	92739,348	97352,180	2579,149	PN
2068	92774,325	97818,172	2578,335	LAMAGUA
1326	92454,924	97469,981	2578,033	BRIO
1853	92774,027	97258,209	2584,453	BBCO
1988	92715,553	97799,901	2578,434	BRIO
9	92397,728	97526,692	2577,890	LAM
1795	92843,158	97279,347	2582,826	PN
887	92863,664	97492,442	2580,651	CERCA
903	92995,756	97737,493	2582,312	PN
2723	92964,458	96910,347	2581,158	PN
2885	93034,706	97044,877	2584,524	PN
3958	92046,973	98148,952	2580,620	PN
1738	92682,689	97341,363	2583,125	PN
3852	91897,438	98191,708	2580,621	PN
116	92572,515	97472,654	2578,188	BRIO

PN	ESTE	NORTE	COTA	PD
3016	92192,631	97479,118	2581,711	BBCO
1139	92442,438	97681,078	2580,000	PN
3439	92089,340	97788,786	2578,639	PN
1343	92452,527	97479,942	2578,393	LAMAGUA
3601	91875,893	97825,870	2585,241	PN
2472	92839,900	97217,988	2579,071	BL_RIO
2008	92804,532	97869,800	2580,684	BBCO
2737	92998,067	96902,111	2581,185	PN
1709	92698,021	97405,353	2579,134	BRIO
635	92686,759	97591,025	2579,854	PN
2868	93013,229	96997,259	2584,299	PN
763	92923,779	97688,386	2578,554	PBCO
3058	92159,050	97492,900	2581,831	PN
3458	92039,819	97879,541	2577,366	PN
161	92560,374	97425,563	2581,840	PN
737	92736,553	97554,069	2579,363	PBCO
799	92927,519	97709,542	2578,557	LAMAGUA
4151	92072,929	97961,934	2577,839	PN
1510	92757,725	97477,848	2578,533	LAMAGUA
264	92357,779	97394,662	2580,358	CERRAM
3734	91930,169	98040,200	2580,642	PN
2819	92968,498	96958,452	2580,636	PN
4226	92104,070	97830,979	2579,210	PN
3315	92191,338	97703,594	2579,361	PN
695	92736,125	97562,684	2580,084	PN
683	92945,718	97758,178	2580,521	BORBCO
2556	92887,468	97331,345	2578,865	BBCO

PN	ESTE	NORTE	COTA	PD
1191	92476,178	97716,618	2581,179	PN
2024	92893,052	97778,696	2581,136	PN
3075	92150,444	97562,474	2582,454	PN
3899	91994,092	98138,740	2576,959	PN
1131	92433,272	97658,803	2580,206	PN
2468	92893,908	97243,459	2579,080	PN
4095	92075,279	97999,848	2578,405	PN
1270	92585,898	97613,967	2578,654	PN
243	92655,622	97357,069	2583,031	PN
805	92879,571	97652,255	2579,043	LAMAGUA
1999	92709,672	97789,503	2581,050	CERRAM
3923	91974,338	98157,979	2582,120	PN
1848	92804,061	97218,150	2580,455	BBCO
2824	92956,829	96961,992	2581,206	PN
538	92662,132	97392,653	2581,949	PN
3657	91936,652	97806,046	2583,594	CERCA
3486	91980,924	97953,951	2576,657	PN
821	92767,596	97596,131	2578,348	LAMAGUA
810	92839,028	97630,966	2578,405	LAMAGUA
1052	92292,888	97561,298	2577,439	BRIO
3307	92214,741	97741,707	2577,733	PN
3086	92140,055	97621,226	2581,114	CERCA
3723	91957,594	98088,177	2579,115	PN
2628	92876,743	96902,748	2582,073	PN
2801	92907,927	96982,283	2580,101	PN
4175	92061,266	97918,317	2577,714	PN
3521	91997,124	97822,344	2582,330	PN
30	92330,462	97560,778	2577,815	LAM

PN	ESTE	NORTE	COTA	PD
2540	92878,613	97334,264	2578,725	PBCO
11	92391,786	97543,275	2577,918	LAM
1984	92724,808	97765,890	2578,169	BRIO
1776	92793,076	97282,397	2581,313	PN
1920	92801,025	97176,968	2580,315	PN
2974	92228,448	97528,377	2577,412	BBCO
3859	91917,101	98204,098	2579,602	PN
1689	92857,389	97257,013	2579,105	BRIO
288	92219,420	97391,731	2580,266	ZODURA
3401	91996,669	97958,819	2576,891	BRIO
3666	91853,918	97863,650	2584,361	CERCA
3931	92897,584	96951,436	2579,277	BL_RIO
2377	92842,286	97172,109	2578,265	LANAGUA
4122	92024,491	97946,054	2576,930	PN
208	92367,955	97427,394	2580,930	PN
3706	92926,289	97644,396	2578,734	BL_RIO
2000	92711,730	97770,823	2580,981	CERRAM
478	92676,265	97418,849	2581,916	PN
2058	92840,010	97900,853	2578,111	BRIO
3994	91981,886	98043,421	2577,329	PN
5930	92869,829	97598,336	2578,772	BL_RIO
4303	92167,789	97990,674	2580,574	PN
3559	91967,119	97943,387	2577,319	PN
1487	92724,361	97439,711	2579,547	PN
2150	92933,528	96932,058	2581,640	PN
467	92702,132	97459,268	2583,149	PN
870	92844,874	97432,741	2583,198	PN
330	92269,266	97492,109	2578,060	PN

PN	ESTE	NORTE	COTA	PD
348	92304,964	97514,161	2578,106	PN
402	92639,300	97518,163	2584,504	PN
3871	91918,311	98158,810	2580,670	PN
2786	92950,361	97015,029	2579,801	PN
2298	92873,945	97114,733	2578,100	PN
364	92282,191	97448,209	2580,119	PN
2210	92987,900	97054,144	2581,193	PN
157	92570,651	97435,900	2582,054	PN
1180	92404,309	97767,851	2580,717	PN
1269	92586,007	97614,007	2578,654	LAMAGUA
4214	92096,508	97844,391	2577,664	PN
173	92508,284	97402,467	2581,534	PN
2410	92938,123	97342,563	2583,409	PN
198	92360,628	97458,788	2582,346	PN
2705	92982,847	96783,239	2580,513	PN
1582	92879,430	97524,456	2581,100	PN
2650	92927,299	96911,249	2580,564	PN
1354	92453,567	97499,122	2578,046	PN
3222	92115,573	97933,385	2580,081	PN
3843	91903,730	98146,964	2580,311	PN
4141	92052,883	97973,462	2577,262	PN
4439	93001,364	97166,464	2579,112	BL_RIO
1849	92798,696	97225,182	2580,627	PN
2638	92907,657	96920,338	2581,502	PN
1826	92775,925	97282,032	2579,127	PBCO
1035	92259,297	97634,233	2580,296	PN
3741	92000,170	97830,578	2582,251	TALTA
1870	92702,467	97352,799	2577,485	PBCO

PN	ESTE	NORTE	COTA	PD
4464	92195,193	97627,331	2577,543	PN
2233	92957,128	97137,525	2579,752	PN
3083	92144,502	97604,355	2581,371	PN
417	92607,052	97483,000	2584,214	PN
2721	92974,745	96898,849	2581,250	PN
1358	92421,658	97534,379	2577,938	BRIO
2105	92837,630	97280,423	2584,362	BRIO
397	92644,703	97538,644	2582,641	PN
3333	92162,656	97731,611	2577,564	PBCO
608	92694,429	97685,174	2579,185	PN
1774	92779,000	97283,540	2580,685	PN
4163	92029,870	97934,273	2576,735	BRIO
1262	92573,857	97624,675	2577,879	LAMAGUA
2904	92965,805	97191,363	2586,022	PN
2849	93036,388	96971,447	2584,732	PN
812	92716,728	97693,011	2578,600	LAMAGUA
276	92226,839	97405,031	2580,273	ZODURA
2933	92985,149	97109,450	2577,874	PN
2513	92921,119	97282,366	2578,653	PBCO
2183	92870,672	97010,003	2580,403	PN
977	92329,533	97802,170	2580,506	PN
3373	92155,816	97818,425	2579,913	PN
609	92674,153	97672,041	2579,288	PN
957	92410,153	97776,947	2580,879	PARED
334	92300,043	97531,119	2577,479	PN
783	92881,234	97756,190	2578,935	PBCO
872	92844,883	97432,739	2583,204	PN
1818	92827,274	97206,300	2580,255	PN

PN	ESTE	NORTE	COTA	PD
2764	92862,705	97266,877	2579,034	BL_RIO
1931	92751,183	97194,452	2582,305	PN
2385	92868,451	97363,420	2580,955	CERCA
3837	91918,550	98106,032	2580,049	PN
3434	92087,635	97769,499	2579,252	PN
1055	92277,610	97520,518	2577,244	BRIO
2091	92811,796	97899,576	2578,591	BRIO
1885	92686,354	97277,847	2582,500	PN
3691	92048,536	98163,242	2582,782	DEL6
3347	92147,446	97765,368	2577,558	PN
2672	92959,589	96871,076	2579,487	PN
4351	92217,539	97934,036	2580,071	PN
6030	93014,458	97044,621	2579,202	BL_RIO
1506	92740,249	97441,660	2578,659	LAMAGUA
3018	92930,002	96946,634	2579,277	BL_RIO
3232	92175,643	97843,063	2577,315	PN
790	92875,227	97757,762	2578,597	LAMAGUA
1077	92255,942	97590,507	2580,196	PN
692	92837,357	97875,407	2579,850	BORBCO
307	93020,509	97120,786	2579,144	BL_RIO
3710	91967,107	98125,288	2576,315	LAMAGUA
1645	92830,261	97373,962	2584,039	PN
3989	92001,558	98079,973	2577,873	PN
3047	92112,291	97500,885	2581,475	CERCA
4162	92054,935	97930,435	2576,651	PN
1898	92738,143	97234,481	2582,305	PN
1091	92260,909	97674,495	2580,338	PN
804	92891,903	97661,114	2578,960	LAMAGUA

PN	ESTE	NORTE	COTA	PD
3467	92033,343	97890,213	2577,033	PN
6130	92871,443	96965,547	2579,268	BL_RIO
2382	92830,737	97353,851	2580,565	CERCA
3470	92008,449	97888,386	2579,728	PN
414	92608,356	97501,018	2583,909	PN
29	92328,822	97570,436	2577,729	LAM
680	92953,244	97716,641	2580,888	BORBCO
2113	92966,980	97156,341	2579,780	BRIO
2826	92957,541	96965,151	2580,286	PN
3739	91938,760	98019,444	2580,019	PN
4652	92705,803	97417,167	2578,920	BL_RIO
1816	92829,243	97231,923	2578,842	PBCO
3014	92173,010	97592,739	2581,655	PN
2289	92857,029	97078,574	2578,827	PN
623	92672,310	97633,626	2579,391	PN
2861	93025,388	96986,998	2583,639	PN
4113	92050,428	98002,102	2577,599	PN
315	92216,155	97442,242	2582,139	PN
18	92383,529	97471,750	2577,973	LAM
3297	92205,670	97761,843	2577,860	PN
4101	92054,607	97984,933	2577,775	PN
795	92917,349	97755,496	2578,380	LAMAGUA
2448	92827,327	97310,689	2579,638	BBARANCO
3340	92162,831	97743,844	2579,144	PN
1457	92951,240	97660,554	2578,695	BRIO
816	92803,203	97613,032	2578,226	LAMAGUA
1126	92408,383	97635,859	2579,747	PN
1155	92381,876	97680,544	2581,019	PN

PN	ESTE	NORTE	COTA	PD
2499	92851,398	97353,755	2578,666	PBCO
4121	92021,623	97945,711	2576,718	BRIO
1555	92993,664	97688,614	2582,291	PN
1522	92799,956	97552,916	2579,381	PN
1489	92914,504	97638,194	2578,740	BL_RIO
997	92298,547	97714,924	2580,152	PN
3510	91945,364	97970,328	2577,672	PN
3773	92061,820	97884,064	2576,774	BRIO
3750	92080,158	97942,147	2577,709	BRIO
4468	92195,686	97553,744	2577,832	BBCO
2931	92982,101	97088,161	2577,936	PN
3730	91938,128	98069,337	2580,193	PN
2293	92873,835	97090,419	2578,598	PN
3927	91982,808	98149,093	2580,378	PN
2234	92936,610	97150,088	2580,819	PN
1261	92573,291	97627,630	2577,748	LAMAGUA
2893	93043,793	97116,934	2586,436	PN
667	92830,644	97587,001	2580,915	BORBCO
3171	92204,650	97855,650	2577,352	PBCO
390	92672,956	97549,965	2584,793	PN
4298	92172,217	97992,778	2580,684	CERRAM
1334	92540,470	97444,764	2578,402	BRIO
1259	92582,981	97635,327	2578,445	PN
3772	92069,614	97869,570	2576,748	BRIO
6285	92766,497	97330,243	2578,988	BL_RIO
1998	92708,245	97805,231	2581,101	CERRAM
1496	92746,819	97488,278	2579,157	PN
3428	92098,439	97753,394	2581,072	PN

PN	ESTE	NORTE	COTA	PD
490	92680,739	97519,738	2583,778	PN
2448	92940,321	97667,313	2578,723	BL_RIO
908	92972,761	97784,439	2582,150	PN
3415	92133,665	97762,108	2576,823	PN
1651	92794,340	97385,606	2584,100	PN
976	92334,999	97830,824	2580,349	PN
3683	91921,225	98010,397	2581,280	CERCA
3770	92063,250	98101,771	2580,387	CERRAM
2959	92220,978	97724,816	2577,560	PN
4147	92073,840	97986,306	2577,801	PN
371	92240,002	97473,550	2580,787	PN
2639	92920,902	96931,150	2580,391	PN
141	92539,038	97419,836	2580,237	PBCO
3394	92140,235	97820,519	2577,088	BRIO
2527	92874,228	97327,171	2578,921	PBCO
3259	92212,367	97873,671	2577,078	BBCO
3569	91996,440	97907,326	2578,520	PN
1972	92696,759	97731,783	2578,650	PN
214	92411,674	97417,506	2580,701	PN
4277	92086,621	98003,666	2580,283	PN
2715	92981,763	96888,900	2581,211	PN
1153	92737,677	97358,510	2578,964	BL_RIO
4332	92208,715	97967,157	2580,736	PN
3829	91922,977	98050,072	2580,963	CERCA
534	92623,673	97382,010	2581,842	PN
336	92311,099	97562,701	2578,147	PN
1572	92925,388	97602,342	2580,889	PN
2710	92981,444	96851,687	2581,346	PN



PN	ESTE	NORTE	COTA	PD
4127	92035,879	97950,219	2577,809	PN
1615	92813,001	97447,438	2582,960	PN
3918	91989,239	98161,308	2580,796	PN
1677	92812,751	97484,166	2578,720	LAMAGUA
1480	92718,711	97451,224	2578,596	BRIIO
784	92809,157	97886,198	2580,767	PBCO
2788	92986,459	96984,290	2579,946	PN
3735	91942,774	98038,385	2580,641	PN
187	92433,562	97438,890	2584,212	PN
2207	92974,345	97053,185	2579,278	PN
4227	92855,049	97593,704	2578,780	BL_RIO
3579	91958,925	97846,175	2584,643	PN
3445	92091,675	97799,527	2577,400	PN
3149	92258,126	97813,469	2577,638	PBCO
2231	92955,354	97142,467	2581,353	PN
2444	92785,459	97307,723	2579,343	BBARANCO
770	92934,317	97787,564	2580,113	PBCO
581	92947,853	97776,304	2578,427	BORRIO
1761	92739,958	97335,834	2581,989	PN
1904	92769,396	97227,474	2581,557	PN
4218	92110,578	97851,189	2577,521	PN
827	92933,117	97821,946	2581,194	CERCA
1505	92766,172	97527,959	2578,306	LAMAGUA
3662	91876,207	97812,925	2584,930	CERCA
2736	92996,016	96901,260	2582,187	PN
3728	91936,211	98084,474	2580,743	PN
1486	92723,038	97432,511	2579,619	PN
658	92745,076	97564,731	2580,546	BORBCO

PN	ESTE	NORTE	COTA	PD
2842	93018,894	96937,627	2585,391	PN
2336	92847,642	96891,799	2584,176	CERRAM
2079	92784,787	97882,409	2580,294	PN
2208	92951,462	97160,222	2579,104	BL_RIO
847	93015,369	97686,950	2581,399	SARD
668	92835,253	97593,093	2581,041	BORBCO
4286	92133,913	98003,064	2579,421	PN
3560	91967,274	97940,997	2578,242	PN
1250	92623,018	97631,673	2578,841	PN
1939	92705,376	97240,260	2581,851	CERRAM
3076	92161,286	97572,148	2582,172	PN
2676	92962,485	96862,104	2580,687	PN
4126	92015,967	97958,649	2576,820	PN
1879	92707,533	97317,116	2583,250	PN
4011	92012,056	98004,968	2576,740	PN
2478	92863,630	97369,304	2582,927	PN
998	92317,450	97728,737	2580,372	PN
2342	92846,379	96941,870	2584,046	CERCA
3828	91919,279	98063,823	2581,225	CERCA
3296	92279,628	97838,070	2580,049	PN
458	92709,715	97506,257	2583,106	PN
1373	92418,576	97591,788	2578,020	LAMAGUA
1374	92419,409	97600,610	2578,086	LAMAGUA
4112	92022,943	97974,973	2577,290	PN
699	92792,650	97592,761	2580,537	PN
3705	91955,505	98130,839	2576,676	PN
1520	92787,264	97552,265	2579,534	PN
924	92571,166	97499,730	2578,950	BBCO

PN	ESTE	NORTE	COTA	PD
641	92685,328	97574,865	2579,549	PN
1549	92958,440	97648,723	2581,807	PN
3736	91946,618	98052,753	2580,454	PN
2984	92209,761	97488,481	2577,716	BBCO
459	92710,710	97506,131	2582,385	PN
2361	92813,231	97110,992	2581,757	CERCA
2601	92979,339	96774,493	2582,808	SARD
1762	92742,588	97336,628	2580,772	PN
628	92671,898	97620,438	2578,055	PN
278	92236,605	97402,550	2580,293	ZODURA
1614	92807,962	97454,133	2581,325	PN
4108	92044,202	97999,642	2578,071	PN
4203	92086,420	97865,803	2577,632	PN
3168	92208,712	97845,392	2579,389	BBCO
654	92613,713	97542,867	2577,858	LAMAGUA
2836	93030,776	96908,372	2584,593	PN
597	92725,191	97706,640	2580,019	PN
3955	91957,468	98168,484	2577,235	PN
2208	92943,780	97077,937	2578,775	PN
1310	92558,716	97492,621	2579,358	PN
1060	92261,734	97527,989	2581,822	PN
1185	92791,829	97573,008	2578,803	BL_RIO
3066	92130,294	97536,318	2582,264	PN
4221	92116,125	97858,196	2577,968	PN
428	92642,422	97497,917	2583,290	PN
4205	92085,761	97864,794	2578,029	PN
200	92338,943	97461,067	2582,415	PN
672	92868,716	97630,913	2580,668	BORBCO

PN	ESTE	NORTE	COTA	PD
2166	92848,353	96945,428	2582,810	PN
711	92945,092	97746,504	2580,340	PN
2864	93027,687	97001,012	2584,543	PN
2328	92817,796	97052,461	2582,735	CERRAM
518	92586,282	97439,757	2581,992	CANCHA
1321	92486,652	97461,928	2577,896	LAMAGUA
2442	92813,014	97334,193	2580,369	PN
4026	92066,369	98021,944	2577,382	PN
1556	92988,327	97675,899	2582,422	PN
1731	92665,698	97364,434	2583,560	PN
3019	92183,365	97564,628	2582,081	BBCO
1601	92810,831	97480,432	2580,236	PN
2592	92898,398	96792,583	2583,375	CERCA
3426	92106,743	97741,349	2580,974	PN
2622	92895,852	96851,574	2582,857	PN
1124	92407,077	97624,232	2580,416	PN
3148	92234,409	97807,729	2577,061	PN
1760	92737,370	97334,750	2582,086	PN
3661	91882,242	97802,372	2584,955	CERCA
13	92404,191	97474,539	2577,655	LAM
547	92736,124	97541,882	2578,727	BORRIO
2655	92907,670	96867,413	2582,445	PN
1611	92825,643	97438,665	2583,509	PN
2173	92863,328	96980,291	2580,712	PN
1991	92736,470	97841,231	2578,206	BRIO
431	92590,771	97483,021	2580,176	PN
1408	92662,540	97738,757	2578,995	PN
3704	91951,202	98143,915	2577,048	PN

PN	ESTE	NORTE	COTA	PD
3423	92118,612	97733,043	2580,316	PN
824	92938,586	97804,832	2580,973	CERCA
524	92582,842	97384,272	2582,118	PN
4124	92031,329	97949,258	2577,178	PN
4452	92965,137	97776,913	2578,764	BRIO
3342	92146,307	97757,444	2576,795	PBCO
1120	92397,335	97620,710	2578,229	PN
2839	93029,988	96939,561	2586,203	PN
1739	92747,679	97341,153	2579,338	PN
2289	92851,546	97304,854	2579,010	BL_RIO
220	92450,368	97408,814	2581,031	PN
1110	92404,675	97625,204	2580,465	PN
1664	92805,011	97330,887	2579,420	PN
655	92595,388	97527,690	2577,847	LAMAGUA
3074	92150,996	97575,064	2582,394	PN
2031	92931,999	97742,632	2580,327	BBCO
618	92665,090	97635,115	2578,404	PN
1325	93021,996	97130,894	2579,135	BL_RIO
2674	92948,078	96823,229	2580,200	PN
1429	92787,333	97400,977	2584,003	PN
3064	92149,505	97546,784	2582,487	PN
2345	92837,630	97280,423	2584,362	CERCA
1290	92605,775	97558,378	2579,496	PN
1349	92444,604	97508,287	2578,994	PN
3491	91971,324	97988,243	2576,792	PN
721	92835,868	97867,310	2581,290	PN
2424	92943,189	97273,647	2582,147	PN
1573	92701,955	97430,067	2578,911	BL_RIO

PN	ESTE	NORTE	COTA	PD
3174	92195,216	97856,117	2578,957	BBCO
3308	92214,356	97742,442	2576,791	FON
27	92332,148	97574,197	2577,859	LAM
3244	92211,903	97795,326	2577,037	PN
47	92317,547	97534,904	2580,106	HB
1146	92424,530	97680,707	2581,538	PN
3131	92267,229	97787,509	2578,118	PBCO
3424	92118,447	97735,714	2579,364	ALCANT
3801	91966,929	98195,130	2582,587	CERCA
3268	92276,617	97809,666	2577,431	BBCO
3882	91944,623	98117,467	2580,023	PN
1388	92314,504	97633,345	2578,410	PN
3775	92057,010	97893,756	2576,791	BRIO
1029	92267,145	97672,914	2580,014	PN
1973	92709,124	97740,934	2578,639	PN
3842	91923,360	98122,029	2580,378	PN
3226	92138,504	97893,744	2576,980	PBCO
2271	92834,961	97142,750	2579,249	PN
350	92295,688	97497,793	2577,751	PN
3623	91908,762	97867,643	2584,859	PN
3005	92189,149	97433,774	2580,993	BBCO
2292	92872,430	97056,538	2578,752	PN
1607	92831,109	97452,398	2581,960	PN
1867	92728,533	97317,615	2577,859	PBCO
4470	92189,801	97579,865	2576,972	BBCO
3870	91922,955	98172,372	2579,371	PN
2518	92906,305	97304,483	2579,035	PBCO
1782	92810,351	97271,979	2580,171	PN

PN	ESTE	NORTE	COTA	PD
3285	92182,011	97931,014	2577,289	BBCO
4097	92067,354	97983,841	2577,707	PN
4185	92087,670	97902,782	2577,577	PN
1224	92648,169	97708,371	2578,593	PN
2897	93020,720	97170,693	2586,299	PN
841	92980,735	97774,572	2581,036	SARD
4279	92101,524	98005,150	2580,293	PN
2803	92897,525	96977,244	2580,672	PN
1712	92705,422	97447,285	2578,679	BRIO
2258	92857,601	97255,732	2579,044	BL_RIO
1009	92353,322	97805,193	2580,349	PN
3969	92023,528	98126,662	2577,047	PN
1101	92325,267	97652,031	2580,336	PN
3194	92163,096	97942,391	2579,728	PN
2148	92710,426	97384,022	2578,946	BL_RIO
1342	92459,601	97482,670	2578,452	LAMAGUA
656	92577,291	97507,314	2577,820	LAMAGUA
4287	92142,280	98003,906	2580,330	PN
710	92948,851	97735,264	2580,311	PN
3079	92166,314	97606,177	2581,662	PN
1835	92779,959	97250,576	2584,026	PN
776	92872,646	97834,497	2580,009	PBCO
3300	92198,803	97790,061	2578,067	PN
262	92383,221	97397,716	2580,366	CERRAM
570	92673,584	97587,826	2577,725	BORRIO
3516	91960,339	97866,256	2583,441	PN
2750	92999,500	96805,987	2579,482	BRIO
4150	92075,234	97962,973	2578,947	PN

PN	ESTE	NORTE	COTA	PD
3583	91988,033	97815,300	2583,534	PN
3867	92849,483	97298,025	2579,010	BL_RIO
1932	92754,932	97229,085	2581,183	PN
1523	92783,684	97543,417	2578,453	PN
2596	92919,090	96763,589	2583,688	CERCA
1656	92800,560	97367,581	2581,240	PN
4244	92145,203	97852,780	2576,652	BRIO
2605	92894,779	96754,671	2584,119	SARD
593	92738,260	97711,423	2579,929	PN
1316	92557,988	97471,519	2577,579	BRIO
2162	92860,321	96932,386	2582,075	PN
1697	92786,830	97290,905	2579,305	BRIO
2725	92968,433	96916,025	2581,624	PN
2211	93011,024	97095,650	2579,163	BL_RIO
857	92931,529	97564,964	2580,984	CERRAM
768	92937,412	97774,813	2579,930	PBCO
732	92769,899	97600,488	2578,363	PBCO
207	92362,567	97414,104	2580,700	PN
285	92231,047	97384,414	2580,264	ZODURA
2400	92939,851	97246,976	2585,978	PN
265	92345,264	97393,134	2580,427	CERRAM
1356	92436,386	97534,117	2578,998	PN
2318	92903,250	97056,300	2578,406	PN
1837	93020,952	97096,101	2579,163	BL_RIO
886	92860,447	97477,247	2580,606	CERCA
205	92348,813	97431,373	2580,888	PN
1109	92347,411	97645,893	2580,504	PN
1324	92469,136	97475,036	2578,573	PN

PN	ESTE	NORTE	COTA	PD
1217	92830,207	97565,341	2578,799	BL_RIO
954	92469,072	97735,386	2581,036	PARED
1877	92702,104	97324,564	2582,355	PBCO
476	92682,930	97430,377	2583,645	PN
376	92255,205	97473,957	2581,844	PN
3761	91993,167	98128,408	2576,665	BRIO
3234	92179,125	97834,570	2577,471	PN
3724	91958,970	98083,432	2579,389	PN
1113	92365,855	97648,814	2579,402	PN
3530	92043,734	97792,031	2581,145	CERCA
528	92611,162	97396,920	2581,913	PN
4146	92080,868	97970,420	2579,079	PN
1073	92261,554	97575,586	2580,365	PN
2365	92782,209	97308,059	2578,211	LANAGUA
4230	92136,062	97862,872	2577,162	PN
4314	92161,354	97983,687	2577,808	BRIO
2584	92837,630	97280,425	2584,520	CHKDEL3
383	92281,341	97463,262	2580,264	PN
191	92409,277	97449,752	2584,112	PN
1635	92815,340	97415,726	2583,928	PN
2430	92927,649	97344,104	2582,189	PN
146	92480,168	97425,910	2579,899	PN
3237	92209,036	97824,443	2576,818	PN
4385	92129,971	97997,432	2577,492	BRIO
4362	92279,297	97840,670	2580,433	PN
1759	92799,522	97285,282	2579,947	PN
1514	92766,249	97536,837	2580,000	PN
444	92690,655	97567,848	2579,176	PN

PN	ESTE	NORTE	COTA	PD
3567	91952,419	97926,405	2579,783	PN
101	92403,843	97549,425	2579,120	BRIO
935	92736,063	97774,925	2578,128	PN
518	92964,270	97170,867	2579,104	BL_RIO
66	92405,886	97469,233	2580,924	HB
2889	93039,033	97082,669	2586,384	PN
2774	92993,513	97010,840	2578,907	BRIO
1511	92760,182	97487,655	2578,766	LAMAGUA
4115	92043,388	98006,259	2577,404	PN
2840	93026,039	96939,337	2585,937	PN
3561	91956,585	97954,923	2577,387	PN
1031	92259,973	97669,707	2580,303	PN
1423	92775,129	97414,322	2580,903	PN
4290	92142,085	98009,044	2580,596	CERRAM
4021	92069,321	98007,849	2577,797	PN
3552	91942,464	97927,699	2582,667	PN
2302	92888,960	97093,888	2578,579	PN
1405	92616,248	97652,610	2579,010	PN
99	92429,107	97483,431	2578,315	BRIO
3207	92153,051	97943,521	2577,112	PBCO
3835	91918,185	98094,988	2580,436	PN
340	92327,417	97589,902	2579,041	PN
132	92566,753	97437,985	2582,704	BBCO
764	92954,734	97735,011	2579,217	PBCO
338	92318,279	97593,686	2578,252	PN
2733	92929,614	96927,867	2580,498	PN
2007	92794,114	97866,408	2580,496	BBCO
4170	92050,287	97913,196	2577,335	PN

PN	ESTE	NORTE	COTA	PD
53	92319,820	97555,035	2580,541	HB
2134	92896,965	96945,048	2579,540	BRIIO
3304	92154,958	97810,860	2578,269	PN
1906	92782,696	97215,512	2581,251	PN
2605	92865,994	97278,505	2579,025	BL_RIO
1688	92852,486	97251,807	2579,318	BRIIO
3856	91884,024	98171,588	2581,308	PN
1233	92646,632	97723,885	2581,436	PN
2171	92860,718	96968,647	2580,634	PN
826	92940,198	97811,575	2581,323	CERCA
3336	92147,730	97745,685	2577,076	PBCO
2585	92858,935	96891,839	2584,611	CERCA
2996	92185,094	97605,601	2581,657	BBCO
2490	92879,298	97247,827	2580,570	PN
3459	92019,359	97855,666	2581,449	PN
2276	92867,122	97125,933	2578,180	PN
363	92299,621	97444,320	2580,272	PN
4293	92106,135	98009,976	2580,443	CERRAM
344	92313,944	97545,878	2578,515	PN
2319	93021,220	97057,386	2579,192	BL_RIO
2496	92920,387	97189,600	2580,458	PN
2681	92930,660	96798,131	2580,428	PN
793	92897,724	97750,693	2578,482	LAMAGUA
1737	92700,165	97405,857	2578,930	BL_RIO
1805	92824,766	97235,843	2577,449	PN
2069	92777,737	97828,412	2578,322	LAMAGUA
3177	92182,547	97871,538	2577,796	BBCO
1922	92802,517	97157,430	2580,935	PN

PN	ESTE	NORTE	COTA	PD
585	92661,474	97671,637	2578,134	BORRIO
2908	92944,280	97246,893	2586,430	PN
3707	91964,148	98114,147	2576,946	PN
3807	91893,022	98223,628	2583,015	CERCA
2108	92850,870	97163,382	2579,356	BRIIO
2913	93042,139	97164,487	2585,253	CERRAM
1728	92705,166	97378,188	2579,378	PN
16	92382,276	97557,686	2577,835	LAM
4176	92061,738	97920,335	2576,970	PN
3764	92011,151	98175,516	2575,957	BRIIO
4392	92999,373	96875,000	2579,071	BRIIO
3542	91924,505	97948,930	2583,127	PN
1765	92748,082	97325,658	2581,766	PN
964	92302,416	97839,159	2580,306	PARED
4024	92073,975	98022,707	2580,109	PN
3680	91909,824	97981,372	2582,051	CERCA
2112	92949,369	97158,108	2579,490	BRIIO
1604	92842,995	97450,296	2583,944	PN
4105	92048,521	97984,299	2577,238	PN
3015	92182,835	97583,485	2582,130	BBCO
4152	92064,814	97956,073	2577,416	PN
2602	92954,873	96768,816	2582,846	SARD
1951	92760,142	97180,572	2583,144	CERRAM
2325	92840,145	97014,377	2582,347	PN
2138	92924,072	97015,025	2579,237	BL_RIO
215	92423,650	97400,635	2580,601	PN
2761	92951,138	96953,224	2579,465	BRIIO
740	92821,135	97579,539	2579,615	BBCO



PN	ESTE	NORTE	COTA	PD
1288	92622,305	97564,526	2578,716	PN
3473	91993,978	97893,851	2581,360	PN
4240	92120,678	97825,268	2576,721	BRIO
3806	91904,857	98219,083	2582,639	CERCA
2142	92986,100	96903,853	2581,715	PN
2316	92912,836	97080,036	2578,654	PN
1644	92836,473	97366,058	2583,309	PN
398	92648,510	97534,012	2584,264	PN
3873	91924,484	98146,757	2580,338	PN
2495	92911,453	97188,724	2580,640	PN
2846	93022,380	96951,802	2584,043	PN
948	92571,989	97672,798	2579,658	PARED
1814	92834,522	97225,494	2580,370	PN
4381	92097,193	97979,515	2577,244	LAMAGUA
1260	92581,973	97635,660	2578,004	LAMAGUA
3158	92230,748	97825,842	2578,775	BBCO
2402	92949,075	97267,337	2586,200	PN
813	92835,223	97618,826	2578,497	LAMAGUA
73	92417,351	97470,913	2580,790	HB
1364	92434,174	97548,151	2579,228	PN
788	92884,946	97799,119	2578,397	LAMAGUA
1076	92957,000	97668,732	2578,716	BL_RIO
2597	92928,948	96765,601	2583,498	CERCA
2523	92884,391	97307,006	2578,666	PBCO
4324	92259,524	97878,638	2580,571	CERRAM
1128	92421,798	97645,043	2580,373	PN
2781	92967,379	96999,217	2580,344	PN
3006	92189,925	97662,972	2581,433	PN

PN	ESTE	NORTE	COTA	PD
2919	93045,795	97008,790	2584,719	CERRAM
1197	92506,770	97712,134	2580,104	PN
1255	92601,682	97626,641	2578,290	PN
2259	92838,834	97167,161	2580,986	PN
1757	92824,308	97297,718	2579,008	BL_RIO
1775	92789,668	97280,261	2580,885	PN
1754	92720,254	97350,845	2582,675	PN
1272	92607,393	97601,568	2578,463	PN
3193	92177,461	97932,440	2578,119	PN
1649	92800,070	97375,387	2583,992	PN
282	92248,067	97386,747	2580,231	ZODURA
485	92694,896	97476,556	2584,327	PN
3896	91988,082	98126,886	2576,980	PN
1541	92894,054	97598,485	2580,393	PN
1041	92272,471	97619,621	2579,476	.
2551	92844,696	97324,940	2580,069	BBCO
1869	92718,675	97320,182	2578,003	PBCO
1516	92760,381	97544,891	2578,990	PN
2851	93003,116	96959,573	2585,610	PN
4042	92041,647	98122,187	2575,949	PN
523	92578,173	97385,105	2582,671	PN
1172	92416,660	97706,050	2581,590	PN
2502	92881,428	97354,623	2578,807	PBCO
2758	92985,618	96940,547	2580,205	BRIO
234	92584,564	97376,229	2582,039	PN
3841	91908,876	98132,560	2580,425	PN
2977	92201,422	97568,508	2577,532	BBCO
1537	92865,884	97578,459	2579,619	PN

PN	ESTE	NORTE	COTA	PD
889	92862,876	97558,160	2580,520	CERCA
4212	92092,846	97841,352	2577,236	PN
707	92916,932	97660,631	2579,891	PN
1362	92431,072	97547,820	2578,155	PN
1035	92893,421	97005,529	2579,248	BL_RIO
1603	92801,731	97477,472	2580,118	PN
930	92658,005	97577,422	2578,484	BBCO
3900	91942,157	98024,446	2579,912	PN
1059	92275,366	97526,334	2578,294	PN
3812	91863,605	98211,600	2583,583	CERCA
912	92982,910	97743,986	2581,950	PN
1247	92628,622	97627,578	2579,208	PN
1227	92666,659	97707,368	2578,207	PN
3085	92136,391	97606,735	2581,653	CERCA
3476	92010,534	97908,276	2578,156	PN
3546	91927,767	97927,682	2583,411	PN
3053	92127,935	97506,773	2582,282	PN
1841	92802,116	97250,672	2577,879	PN
2599	92951,401	96770,412	2583,363	CERCA
1169	92393,656	97695,872	2581,624	PN
3752	91966,942	98005,029	2576,619	BRIO
682	92951,146	97743,410	2580,441	BORBCO
1254	92604,817	97628,357	2578,647	PN
3960	92049,652	98142,254	2580,182	PN
2050	92886,270	97829,044	2579,381	BRIO
3287	92170,017	97959,433	2577,172	BBCO
1122	92411,453	97618,623	2578,387	PN
3675	91874,740	97936,350	2582,867	CERCA

PN	ESTE	NORTE	COTA	PD
3437	92079,985	97788,288	2578,339	PN
2013	92834,338	97863,657	2581,146	BBCO
969	92309,728	97833,618	2580,345	PN
4246	92130,609	97867,410	2577,054	BRIO
3594	91910,135	97814,953	2584,954	PN
3554	91935,048	97934,494	2583,006	PN
1822	92783,774	97282,771	2579,035	PBCO
3732	91931,065	98055,508	2580,696	PN
1083	92302,080	97623,500	2579,008	PN
2888	93051,161	97079,747	2583,259	PN
1171	92425,316	97697,719	2581,664	PN
1072	92268,677	97575,478	2580,286	PN
1715	92721,920	97477,470	2578,377	BRIO
2084	92753,641	97864,441	2578,360	PN
4056	92048,403	98029,036	2576,734	PN
1094	92266,087	97673,575	2580,026	PN
2375	92863,605	97244,048	2578,245	LANAGUA
432	92596,096	97489,808	2580,224	PN
2396	92837,630	97280,423	2586,032	PN
266	92328,752	97391,149	2580,127	CERRAM
2570	92918,449	97304,800	2579,293	BBCO
358	92316,674	97479,848	2578,450	PN
2176	92845,633	96972,869	2581,820	PN
4058	92059,367	98029,562	2576,791	PN
3769	92060,225	98116,412	2580,387	CERRAM
147	92676,452	97553,457	2584,682	DEL1
2865	93000,617	96984,032	2582,611	PN
2449	92853,090	97309,361	2579,929	BBARANCO

PN	ESTE	NORTE	COTA	PD
3819	91886,525	98151,569	2583,681	CERCA
162	92553,062	97418,545	2581,656	PN
1758	92733,174	97345,755	2580,701	PN
388	92335,927	97456,831	2581,237	PN
2356	92816,494	97077,096	2582,469	CERCA
535	92638,305	97392,958	2581,931	PN
3850	91893,023	98147,309	2581,289	PN
495	92694,463	97509,632	2583,657	PN
3642	91908,704	97907,857	2584,448	PN
2006	92788,824	97860,712	2580,175	BBCO
2204	92964,975	97038,494	2581,117	PN
1992	92728,442	97856,184	2578,461	BRIO
902	93003,309	97718,290	2582,272	PN
251	92534,775	97359,951	2581,178	CERRAM
3757	91966,407	98078,484	2576,909	BRIO
3094	92171,747	97651,306	2581,387	PN
715	92911,445	97792,951	2581,323	PN
1391	92434,355	97638,959	2578,158	LAMAGUA
3202	92133,003	97962,822	2580,214	BBCO
118	92440,878	97452,686	2582,630	BBCO
1812	92830,052	97211,446	2580,164	PN
4142	92077,178	97970,561	2578,216	PN
3947	91929,104	98176,733	2579,606	PN
1637	92829,336	97402,216	2583,331	PN
603	92699,670	97681,030	2580,016	PN
2586	92865,511	96875,441	2584,331	CERCA
1871	92712,414	97329,117	2577,976	PBCO
4448	92919,010	97805,108	2578,413	BRIO

PN	ESTE	NORTE	COTA	PD
878	92792,518	97454,930	2580,655	CERCA
410	92618,953	97491,588	2583,572	PN
3176	92187,024	97872,273	2578,304	BBCO
661	92770,695	97579,042	2580,113	BORBCO
3152	92242,129	97815,567	2577,842	PBCO
1907	92881,749	96981,149	2579,261	BL_RIO
2429	92930,799	97335,022	2581,951	PN
542	92636,662	97367,658	2582,891	PN
442	92677,799	97565,176	2579,320	PN
3266	92276,545	97793,017	2577,166	BBCO
196	92375,987	97455,596	2582,441	PN
4427	92422,601	97503,125	2578,122	BRIO
2467	92892,874	97235,116	2579,138	PN
3451	92049,300	97830,863	2580,764	PN
1624	92811,081	97422,808	2584,221	PN
2942	92998,541	97107,810	2580,831	PN
2	92189,652	97541,918	2582,365	GPS2
2930	92982,468	97076,142	2578,172	PN
917	92971,779	97773,209	2582,015	PN
385	92305,790	97464,359	2580,558	PN
3652	91839,866	97903,692	2584,580	PN
125	92574,887	97445,720	2582,789	BBCO
4463	92208,551	97638,307	2577,545	PN
2947	93025,934	97029,988	2578,917	BRIO
850	93004,137	97641,312	2581,845	CERRAM
2876	93037,457	97009,028	2585,557	PN
401	92641,871	97516,052	2583,282	PN
3614	91921,984	97895,107	2584,523	PN

PN	ESTE	NORTE	COTA	PD
3026	92191,488	97538,949	2582,087	BBCO
4457	92238,042	97726,278	2577,563	PN
1195	92499,172	97709,020	2580,251	PN
2181	92871,288	96998,377	2580,719	PN
3465	92027,418	97887,565	2579,660	PN
2220	93004,502	97091,599	2580,881	PN
690	92853,633	97861,221	2579,522	BORBCO
1375	92425,801	97607,885	2578,020	LAMAGUA
4015	92041,573	98003,232	2577,291	PN
3913	91990,017	98140,144	2579,504	PN
2017	92876,570	97771,451	2581,442	BBCO
1467	92839,987	97564,330	2578,879	BRIO
374	92255,020	97476,322	2581,980	PN
176	92495,502	97410,744	2582,581	PN
3374	92156,307	97815,557	2579,893	PN
3480	91992,345	97942,057	2578,754	PN
2926	93001,772	96781,920	2582,928	CERRAM
1622	92779,271	97407,359	2580,264	PN
3917	91980,690	98151,360	2581,891	PN
3068	92118,979	97536,324	2582,181	CERCA
57	92378,478	97468,815	2580,611	HB
508	92632,449	97483,396	2582,169	MALLA
2179	92841,553	96990,488	2583,138	PN
2399	92945,756	97219,241	2586,295	PN
1552	92976,075	97669,902	2582,499	PN
3494	91963,687	97975,907	2577,494	PN
4227	92124,422	97870,841	2577,301	PN
2311	92906,110	97090,315	2578,206	PN

PN	ESTE	NORTE	COTA	PD
1021	92346,300	97706,694	2580,456	PN
1075	92258,035	97581,209	2580,386	PN
2821	92938,074	96976,566	2580,219	PN
51	92317,304	97544,012	2580,140	HB
2215	92997,237	97073,056	2580,704	PN
1133	92854,839	97578,291	2578,788	BL_RIO
2644	92912,534	96914,327	2581,310	PN
2859	93029,720	96988,587	2585,897	PN
3092	92169,311	97636,627	2581,580	PN
4297	92183,557	97985,293	2580,739	CERRAM
1764	92748,082	97325,658	2581,766	PN
3854	91894,846	98205,526	2580,449	PN
960	92373,946	97812,328	2580,586	PARED
979	92364,497	97803,986	2580,448	PN
625	92676,935	97630,157	2579,071	PN
1318	92530,656	97464,122	2577,977	LAMAGUA
517	92562,585	97420,846	2581,916	CANCHA
4005	91991,374	98015,170	2577,308	PN
801	92923,645	97688,408	2578,542	LAMAGUA
2034	92932,283	97709,419	2580,922	BBCO
4223	92106,207	97835,903	2577,704	PN
2757	93004,159	96932,275	2580,341	BRIO
1763	92808,533	97283,834	2580,105	PN
3125	92254,103	97773,121	2580,374	BBCO
3979	92008,116	98104,085	2577,793	PN
3729	91943,196	98070,301	2580,665	PN
2440	92830,492	97341,870	2579,901	PN
576	92955,259	97683,309	2578,508	BORRIO

PN	ESTE	NORTE	COTA	PD
2387	92888,213	97361,983	2580,820	CERCA
3532	92068,210	97767,017	2581,175	CERCA
750	92858,432	97637,295	2579,271	PBCO
1205	92551,748	97677,416	2578,014	LAMAGUA
4269	92090,750	97951,722	2577,221	LAMAGUA
4329	92219,153	97968,999	2580,273	CERRAM
2511	92948,008	97302,283	2578,608	PBCO
636	92681,841	97580,265	2579,218	PN
1157	92379,968	97681,100	2580,536	PN
222	92474,577	97400,745	2581,377	PN
3584	91968,375	97817,283	2582,579	PN
4039	92032,235	98048,682	2577,420	PN
2843	93034,694	96955,665	2584,535	PN
3366	92128,270	97799,709	2579,080	PN
3429	92110,039	97747,832	2579,294	PN
3398	92895,311	97624,679	2578,751	BL_RIO
3932	91988,346	98179,303	2579,912	ALPTE
275	92206,750	97372,317	2580,343	CERRAM
1692	92854,227	97293,325	2579,301	BRIO
1559	92972,239	97652,826	2582,359	PN
1757	92728,070	97345,651	2582,712	PN
4003	91986,845	98013,165	2576,877	PN
758	92952,365	97690,116	2579,128	PBCO
3747	92079,118	97960,545	2577,950	BRIO
1839	92797,489	97245,221	2580,844	PBCO
2827	92950,283	96969,210	2580,266	PN
1482	92709,342	97418,377	2578,932	BRIO
28	92349,750	97483,053	2577,861	LAM

PN	ESTE	NORTE	COTA	PD
4186	92084,803	97902,437	2578,312	PN
3557	91950,608	97938,840	2578,948	PN
4060	92066,207	98036,216	2578,248	PN
1376	92417,748	97610,990	2577,981	LAMAGUA
2256	92850,504	97153,410	2580,285	PN
259	92418,980	97395,981	2580,485	CERRAM
4247	92122,724	97871,779	2577,269	BRIO
3339	92140,526	97751,651	2577,991	PN
2488	92886,251	97265,565	2580,643	PN
4073	92052,906	98126,851	2580,300	PN
2160	92869,949	96936,983	2580,855	PN
1723	92683,327	97381,268	2582,475	PN
494	92695,644	97520,126	2583,015	PN
2504	92907,905	97353,672	2578,848	PBCO
1753	92719,150	97353,749	2581,580	PN
681	92953,241	97731,446	2580,313	BORBCO
2882	93059,685	97054,712	2583,233	PN
1782	92726,826	97486,670	2578,866	BL_RIO
2645	92917,012	96913,830	2579,742	PN
2374	92847,681	97273,306	2583,622	LANAGUA
2700	92973,534	96807,750	2581,360	PN
1623	92819,471	97428,202	2583,737	PN
377	92255,272	97470,287	2580,457	PN
3928	91984,338	98147,624	2581,333	PN
3589	91941,351	97817,043	2584,332	PN
1399	92504,704	97702,839	2578,102	LAMAGUA
2952	92248,350	97547,955	2578,084	PN
839	92963,103	97809,663	2580,814	SARD

PN	ESTE	NORTE	COTA	PD
3857	91914,927	98206,883	2580,737	PN
722	92825,883	97874,384	2580,956	PN
2335	92832,554	96929,684	2583,816	CERRAM
1768	92753,382	97316,442	2580,505	PN
1231	92654,046	97730,220	2579,353	PN
1779	92812,252	97278,880	2581,740	PN
1654	92795,317	97374,118	2581,759	PN
79	92411,671	97490,686	2580,620	HB
2445	92795,419	97306,332	2578,972	BBARANCO
1296	92590,684	97550,965	2578,110	PN
3442	92069,556	97801,080	2580,406	PN
2081	92774,233	97872,316	2580,824	PN
3502	91935,973	98017,578	2580,611	PN
2352	92833,235	97037,156	2582,535	CERCA
4188	92081,566	97900,640	2578,065	PN
1132	92422,396	97654,839	2579,105	PN
43	92313,198	97521,441	2579,371	HB
3924	91981,711	98161,400	2579,504	PN
1890	92721,212	97274,466	2582,570	PN
2227	92971,300	97134,363	2578,681	PN
2163	92853,362	96928,680	2582,642	PN
1064	92247,611	97533,744	2581,055	PN
2954	92242,226	97561,087	2577,945	PN
1524	92798,610	97541,875	2578,932	PN
541	92637,413	97369,012	2582,052	PN
3218	92128,686	97932,520	2576,732	PN
4038	92030,352	98118,161	2575,616	PN
2907	92950,889	97218,556	2586,219	PN

PN	ESTE	NORTE	COTA	PD
1081	92298,803	97624,128	2580,455	PN
2051	92898,957	97821,212	2578,405	BRIO
3325	92156,862	97724,602	2578,049	PN
2275	92846,745	97125,009	2578,192	PN
820	92695,244	97598,972	2578,403	LAMAGUA
836	92935,789	97868,232	2579,562	SARD
1507	92746,755	97455,495	2578,843	LAMAGUA
294	92268,510	97407,629	2579,884	PN
2657	92907,387	96853,430	2582,479	PN
3549	91953,871	97910,507	2581,425	PN
2192	92894,577	97028,748	2579,459	PN
1294	92595,587	97547,006	2579,140	PN
697	92754,434	97577,179	2579,562	PN
2981	92218,271	97522,936	2577,880	BBCO
3173	92196,455	97865,581	2577,650	PBCO
2894	93031,176	97157,843	2586,118	PN
3034	92721,709	97475,302	2578,875	BL_RIO
1850	92794,025	97227,454	2580,651	PN
2323	92845,910	97037,303	2580,321	PN
4062	92071,004	98039,974	2580,205	PN
2729	92929,291	96920,226	2580,134	PN
2932	92985,517	97099,518	2577,940	PN
4167	92050,994	97926,245	2578,066	PN
2576	92936,537	97273,026	2581,047	PN
3523	92009,758	97821,504	2581,601	PN
3501	91940,059	98013,231	2579,410	PN
2834	93017,891	96937,159	2585,216	PN
175	92425,767	97465,507	2581,601	PN



PN	ESTE	NORTE	COTA	PD
2122	92997,198	97025,243	2579,734	BRIO
2635	92906,452	96936,261	2581,700	PN
1414	92675,202	97748,397	2580,702	PN
1140	92462,040	97687,280	2580,320	PN
4276	92088,298	98000,736	2579,199	PN
2752	93003,152	96836,095	2579,395	BRIO
4219	92102,476	97826,333	2577,132	PN
56	92322,534	97565,756	2580,369	HB
493	92695,632	97528,886	2583,993	PN
1880	92671,514	97294,740	2582,400	PN
929	92651,437	97572,085	2578,508	BBCO
2973	92241,517	97515,635	2577,737	BBCO
2701	92967,214	96786,245	2580,618	PN
1466	92851,174	97571,043	2578,809	BRIO
4059	92061,778	98034,128	2577,312	PN
4054	92053,815	98054,207	2576,493	PN
110	92496,370	97424,110	2578,456	BRIO
2386	92875,856	97362,805	2580,951	CERCA
3263	92273,510	97768,621	2577,315	BBCO
1450	92290,851	97474,682	2578,815	PBCO
803	92909,424	97667,656	2578,822	LAMAGUA
4035	92035,860	98025,929	2577,550	PN
3402	92008,634	97942,167	2576,942	BRIO
3658	91922,139	97804,915	2584,332	CERCA
533	92613,921	97375,461	2581,666	PN
2098	92798,647	97929,217	2581,182	CERRAM
1316	92812,603	97306,446	2579,012	BL_RIO
1461	92893,323	97617,130	2579,271	BRIO

PN	ESTE	NORTE	COTA	PD
4037	92033,803	98037,425	2577,421	PN
143	92524,007	97420,390	2578,591	BRIO
2580	92900,737	97251,050	2579,709	PN
362	92317,293	97439,998	2580,327	PN
4207	92085,680	97859,874	2578,373	PN
95	92396,517	97545,211	2580,437	HB
2830	92948,886	96991,857	2579,905	PN
1941	92689,756	97257,745	2582,026	CERRAM
4323	92288,838	97828,957	2580,637	DEL2
1781	92810,533	97276,701	2580,803	PN
1832	92778,881	97239,924	2584,108	PN
3365	92116,089	97791,798	2577,847	PN
2948	93027,061	97042,812	2579,955	BRIO
4445	92892,773	96947,469	2579,419	BRIO
1330	92500,937	97435,527	2578,344	BRIO
204	92350,540	97416,466	2580,714	PN
982	92300,011	97772,533	2580,272	PN
2722	92949,221	96903,667	2579,441	PN
2331	92824,901	97014,643	2582,678	CERRAM
1226	92666,158	97705,970	2578,538	PN
1530	92837,908	97557,198	2578,829	PN
128	92535,521	97414,686	2582,802	BBCO
2394	92950,080	97374,182	2582,010	CERCA
1013	92373,235	97760,452	2580,750	PN
2813	92923,231	96977,290	2580,761	PN
1620	92784,170	97419,488	2580,826	PN
412	92614,555	97495,255	2584,113	PN
4411	92987,635	96820,582	2579,078	BRIO

PN	ESTE	NORTE	COTA	PD
1905	92775,396	97234,027	2583,786	PN
644	92650,275	97635,388	2577,492	BORRIO
2057	92852,088	97888,239	2578,096	BRIO
1351	92774,002	97310,710	2579,006	BL_RIO
895	92945,415	97623,128	2580,626	CERCA
3396	92114,155	97803,494	2576,969	BRIO
2447	92815,214	97309,827	2579,813	BBARANCO
1460	92902,881	97628,690	2578,576	BRIO
2637	92916,452	96932,864	2581,021	PN
2964	92216,772	97584,471	2579,146	PN
291	92226,028	97393,301	2580,266	ZODURA
2697	92961,809	96797,806	2580,283	PN
423	92600,019	97467,641	2583,480	PN
3449	92063,405	97828,113	2579,706	PN
2180	92841,128	97005,926	2582,750	PN
253	92501,979	97372,450	2580,936	CERRAM
1070	92279,444	97578,405	2580,383	PN
1004	92342,679	97754,625	2581,020	PN
2217	92983,589	97081,974	2578,060	PN
1780	92811,433	97280,646	2581,680	PN
2823	92947,139	96965,269	2580,570	PN
1786	92853,302	97284,280	2580,153	PN
144	92508,399	97422,262	2578,604	BRIO
3716	91959,854	98120,171	2577,096	LAMAGUA
3945	91921,586	98183,001	2578,927	PN
195	92386,332	97454,398	2583,404	PN
4460	92223,374	97698,334	2577,555	PN
499	92695,294	97479,683	2584,034	PN

PN	ESTE	NORTE	COTA	PD
2139	92948,286	96935,701	2579,805	BRIO
2611	92910,646	96792,937	2581,867	PN
4086	92048,536	98163,241	2583,026	CHKDEL6
2460	92912,947	97245,331	2579,644	BBARANCO
3072	92138,834	97577,661	2582,363	PN
2338	92860,379	96897,458	2585,434	AUX3
3649	91880,007	97929,053	2584,132	PN
2333	92833,635	96971,563	2583,254	CERRAM
3013	92194,113	97459,731	2580,854	BBCO
1	92416,470	97465,886	2583,330	GPS1
965	92295,264	97832,058	2580,299	PARED
4450	92937,098	97804,581	2578,831	BRIO
4144	92063,819	97980,029	2577,609	PN
76	92417,070	97478,050	2578,355	PN
2164	92846,031	96927,483	2584,072	PN
3936	91996,289	98183,882	2577,096	PALETA
2254	92864,413	97141,517	2579,086	PN
3229	92168,068	97855,305	2576,965	PN
731	92765,545	97586,157	2578,648	PBCO
3890	91958,848	98068,848	2577,423	PN
3911	91985,689	98134,000	2579,759	PN
7	92403,906	97501,582	2577,934	LAM
1959	92899,863	97639,220	2578,746	BL_RIO
7	93011,742	97120,657	2579,144	BL_RIO
405	92619,847	97514,039	2584,039	PN
446	92700,357	97551,550	2584,130	PN
3110	92120,323	97727,732	2580,239	PN
500	92695,294	97479,683	2584,034	PN

PN	ESTE	NORTE	COTA	PD
2662	92924,481	96862,238	2582,531	PN
4417	92995,289	96917,194	2579,295	BRIO
913	92956,008	97819,148	2581,431	PN
2665	92975,634	97017,289	2579,234	BL_RIO
3327	92176,717	97742,534	2578,360	PBCO
1095	92276,153	97671,187	2579,989	PN
3003	92189,800	97425,601	2581,036	BBCO
2203	92960,075	97049,113	2579,022	PN
1214	92601,454	97648,848	2580,198	PN
3049	92117,158	97528,989	2582,052	CERCA
590	92749,221	97718,069	2579,851	PN
2772	92942,756	97017,491	2579,113	BRIO
230	92543,184	97386,054	2581,662	PN
1737	92671,368	97345,490	2583,245	PN
780	92900,443	97751,699	2578,618	PBCO
2206	92981,397	97043,411	2581,369	PN
2795	92914,757	97001,300	2580,023	PN
627	92689,431	97611,805	2579,065	PN
1360	92415,095	97562,572	2577,751	BRIO
3755	91955,187	98033,644	2576,830	BRIO
2116	92980,693	97156,563	2579,520	BRIO
3946	91927,192	98175,994	2578,808	PN
4342	92183,985	97912,232	2577,487	BRIO
4288	92148,958	98000,584	2580,321	PN
2092	92793,434	97900,614	2578,577	BRIO
3021	92187,446	97549,974	2582,081	BBCO
1194	92494,629	97716,476	2580,538	PN
4350	92221,924	97923,736	2579,569	PN

PN	ESTE	NORTE	COTA	PD
2466	92895,550	97221,541	2579,622	PN
1671	92765,968	97428,045	2578,572	LAMAGUA
2971	92256,141	97509,822	2578,024	BBCO
2689	92941,461	96845,352	2580,977	PN
380	92268,612	97474,880	2582,138	PN
906	92977,861	97773,806	2582,009	PN
54	92366,479	97469,905	2579,581	HB
4172	92056,490	97914,088	2576,989	PN
1363	92431,956	97563,372	2578,777	PN
2360	92812,692	97105,962	2581,274	CERCA
3	92189,652	97541,918	2582,365	GPS2
4052	92051,393	98072,791	2576,729	PN
2028	93013,464	97158,751	2579,118	BL_RIO
1829	92794,538	97221,907	2583,847	PN
1104	92328,528	97644,266	2577,692	PN
1154	92392,149	97660,295	2579,750	PN
2095	92779,002	97895,206	2578,808	BRIO
102	92404,315	97557,791	2578,087	BRIO
4033	92035,614	98014,832	2577,378	PN
3372	92163,950	97820,631	2577,303	PN
3991	92006,040	98076,610	2577,448	PN
2320	92879,108	97050,393	2578,404	PN
4014	92014,280	98030,638	2577,479	PN
2362	92817,071	97121,363	2582,228	CERCA
985	92305,601	97763,158	2580,263	PN
3219	92120,604	97923,418	2579,045	PN
3098	92168,576	97667,174	2581,284	PN
3357	92134,394	97782,342	2577,316	PN

PN	ESTE	NORTE	COTA	PD
2096	92762,321	97905,331	2578,529	BRIO
199	92357,819	97455,753	2581,608	PN
4048	92038,005	98086,218	2576,529	PN
2719	92968,265	96894,222	2580,277	PN
595	92729,068	97702,522	2579,631	PN
3206	92143,968	97953,247	2577,117	PBCO
3106	92114,471	97718,025	2581,390	CERCA
1178	92378,048	97767,790	2580,813	PN
3380	92172,691	97824,749	2577,588	PN
2741	92994,830	96871,654	2580,757	BRIO
2230	92966,117	97151,418	2580,988	PN
3887	91963,121	98087,382	2576,949	PN
3963	92040,142	98146,164	2578,853	PN
2833	92998,211	96944,664	2580,164	PN
112	92527,776	97421,682	2578,472	BRIO
4130	92023,729	97959,445	2577,097	PN
3781	91993,202	97991,664	2576,569	BRIO
2061	92809,464	97884,287	2581,425	AUX2
506	92646,065	97494,353	2582,083	MALLA
717	92882,551	97819,254	2581,264	PN
939	92674,186	97751,844	2580,910	CERRAM
4338	92198,933	97930,611	2577,182	BRIO
1393	92458,399	97657,057	2578,114	LAMAGUA
1864	92734,532	97303,925	2578,665	PBCO
1617	92804,531	97441,938	2583,217	PN
779	92846,666	97859,264	2579,756	PBCO
3809	91854,349	98238,352	2583,469	CERCA
2746	92983,674	96803,762	2580,213	BRIO

PN	ESTE	NORTE	COTA	PD
941	92644,496	97734,217	2581,652	CERRAM
320	92218,197	97487,615	2581,683	PN
650	92662,114	97581,730	2577,914	LAMAGUA
2272	92854,546	97148,284	2579,819	PN
1908	92795,935	97199,805	2580,918	PN
1845	92811,596	97225,999	2579,836	BBCO
2452	92870,363	97297,540	2579,765	BBARANCO
4375	92256,224	97508,067	2578,174	PN
1961	92699,806	97757,291	2581,352	PN
1080	92271,519	97588,951	2579,127	PN
2624	92885,427	96878,070	2582,968	PN
549	92597,641	97512,119	2578,326	BORRIO
871	92808,828	97439,903	2583,477	PN
660	92762,192	97576,442	2579,611	BORBCO
4418	92307,557	97556,848	2577,439	BRIO
4361	92269,742	97849,583	2580,458	PN
4390	92963,754	97159,850	2579,104	BL_RIO
2910	92968,680	97193,408	2584,947	CERRAM
2347	92839,582	96986,547	2583,281	CERCA
2629	92880,678	96968,908	2579,268	BL_RIO
2040	92877,272	97826,645	2581,006	PN
2782	92996,017	97003,033	2579,820	PN
3198	92158,398	97887,382	2577,487	PBCO
2990	92708,440	97428,470	2578,911	BL_RIO
3509	91934,278	97976,215	2578,180	PN
3671	91842,455	97913,124	2584,015	CERCA
1010	92373,756	97786,477	2580,708	PN
304	92314,282	97418,005	2580,367	PN

PN	ESTE	NORTE	COTA	PD
169	92438,243	97458,437	2580,598	PN
3503	91934,432	98007,410	2580,796	PN
1143	92427,527	97678,053	2580,073	PN
4315	92151,497	97993,862	2577,589	BRIO
1579	92881,233	97572,353	2580,995	PN
447	92699,655	97564,302	2579,521	PN
4446	92952,991	96935,782	2579,353	BRIO
2565	92895,082	97304,936	2578,759	BBCO
2806	92900,206	96970,623	2581,909	PN
3324	92175,463	97739,739	2579,660	PN
855	92953,620	97587,014	2580,938	CERRAM
2465	92915,460	97211,923	2579,391	PN
2640	92922,521	96926,693	2580,251	PN
3646	91900,986	97950,334	2582,837	PN
3081	92157,617	97605,574	2581,568	PN
3364	92743,176	97521,358	2578,837	BL_RIO
3081	92841,426	97183,190	2579,090	BL_RIO
2555	92879,850	97324,794	2579,100	BBCO
700	92801,995	97593,894	2580,456	PN
1045	92294,274	97616,239	2580,345	.
167	92532,255	97401,763	2581,633	PN
606	92925,660	97169,410	2579,103	BL_RIO
4428	92431,983	97485,596	2577,682	BRIO
2890	93045,426	97088,755	2586,515	PN
3031	92166,015	97528,590	2582,049	PN
2209	92979,939	97061,755	2578,728	PN
182	92459,910	97427,372	2582,731	PN
1578	92895,301	97558,781	2580,706	PN

PN	ESTE	NORTE	COTA	PD
846	93010,774	97705,389	2581,263	SARD
3964	92037,144	98147,076	2578,169	PN
3136	92249,470	97780,163	2577,962	PBCO
1803	92835,934	97246,595	2579,224	PBCO
2925	93016,604	96785,855	2583,383	CERRAM
2871	93007,436	96986,913	2583,006	PN
2837	93033,765	96924,181	2585,020	PN
452	92709,728	97534,614	2583,946	PN
306	92288,458	97420,570	2580,064	PN
4180	92075,623	97922,436	2578,179	PN
2892	93037,423	97109,342	2586,162	PN
37	92304,388	97496,829	2577,649	LAM
865	92864,472	97435,268	2582,219	CERRAM
1265	92532,539	97609,658	2577,786	LAMAGUA
3040	92175,956	97458,759	2581,077	CERCA
885	92855,008	97460,921	2580,684	CERCA
114	92552,741	97439,732	2578,482	BRIO
2685	92957,563	96821,858	2580,132	PN
2669	92943,289	96833,600	2580,875	PN
2435	92875,923	97357,425	2580,470	PN
2552	92935,324	96955,820	2579,277	BL_RIO
685	92932,839	97787,429	2580,775	BORBCO
331	92282,344	97496,051	2578,203	PN
671	92858,476	97624,535	2580,824	BORBCO
501	93011,808	97056,999	2579,192	BL_RIO
489	92676,726	97511,616	2583,381	PN
45	92315,960	97528,458	2579,469	HB
2774	93012,039	97010,459	2578,907	BRIO

PN	ESTE	NORTE	COTA	PD
2417	92936,817	97282,747	2580,824	PN
3711	91970,966	98135,708	2576,262	LAMAGUA
2053	92907,165	97833,089	2578,363	BRIO
2620	92902,721	96837,642	2582,600	PN
602	92708,041	97694,053	2579,909	PN
3634	91856,458	97898,978	2584,716	PN
1693	92846,034	97296,093	2579,326	BRIO
2296	92874,946	97103,781	2578,103	PN
3440	92100,403	97790,041	2577,384	PN
140	92549,534	97428,539	2579,906	PBCO
14	92381,288	97554,071	2577,800	LAM
225	92507,927	97381,716	2581,008	PN
96	92404,185	97525,944	2579,609	HB
2545	92858,797	97332,766	2578,786	PBCO
1022	92308,131	97708,291	2580,196	PN
3186	92165,360	97914,903	2577,143	PN
4348	92225,648	97904,740	2579,636	PN
2616	92886,527	96832,990	2582,876	PN
4001	91984,047	98024,479	2577,655	PN
3309	92951,799	97020,087	2579,232	BL_RIO
1078	92256,333	97590,530	2580,200	PN
2153	92913,184	96929,597	2581,195	PN
3011	92179,816	97622,098	2581,773	PN
3457	92036,759	97852,984	2579,797	PN
934	92741,741	97749,595	2578,215	PN
2403	92954,707	97273,765	2586,321	PN
82	92372,953	97580,757	2580,720	HB
2255	92861,146	97150,908	2580,132	PN

PN	ESTE	NORTE	COTA	PD
3348	92153,876	97769,604	2577,469	PN
3782	91984,506	98003,860	2576,717	BRIO
932	92660,286	97585,085	2578,868	BBCO
2949	93025,120	97070,761	2579,432	BRIO
272	92247,295	97380,422	2579,972	CERRAM
1611	92812,990	97296,589	2579,012	BL_RIO
4326	92250,668	97898,028	2580,400	CERRAM
121	92472,272	97425,159	2582,480	BBCO
1748	92710,442	97357,146	2581,286	PN
1443	92388,343	97457,745	2582,884	PN
3577	91963,828	97853,014	2583,592	PN
2191	92895,462	97025,845	2580,493	PN
1328	92469,331	97454,727	2578,396	BRIO
413	92691,075	97531,653	2584,080	PN
822	92763,894	97583,670	2578,513	LAMAGUA
1798	92850,957	97276,672	2582,129	PN
2854	93010,771	96962,284	2583,608	PN
4241	92127,802	97830,326	2576,938	BRIO
600	92720,427	97706,299	2579,116	PN
4075	92050,599	98134,670	2580,031	PN
509	92618,137	97404,358	2582,250	MALLA
3153	92240,901	97817,416	2579,095	BBCO
3107	92102,401	97730,755	2581,321	CERCA
3050	92124,505	97528,447	2582,171	PN
3079	92709,460	97453,562	2578,892	BL_RIO
1435	92805,254	97573,740	2578,002	LAMAGUA
577	92668,461	97610,654	2577,520	BORRIO
4412	93004,754	96891,357	2579,071	BRIO



PN	ESTE	NORTE	COTA	PD
946	92595,563	97651,835	2579,750	PARED
2965	92212,757	97587,257	2578,710	PN
604	92699,644	97681,177	2580,022	PN
3641	91902,474	97922,701	2584,082	PN
4308	92167,044	97984,453	2578,005	PN
639	92685,518	97579,604	2579,616	PN
704	92857,166	97627,136	2580,871	PN
1703	92740,781	97352,845	2578,705	BRIIO
3984	91985,176	98060,218	2577,307	PN
1576	92910,754	97563,332	2580,868	PN
3619	91958,061	97866,422	2583,597	PN
2393	92938,570	97369,405	2581,591	CERCA
605	92685,637	97668,721	2580,095	PN
1918	92811,775	97141,474	2581,113	PN
2186	92870,786	97016,771	2579,563	PN
422	92601,715	97465,008	2583,349	PN
1575	92904,704	97589,234	2581,051	PN
1755	92727,123	97344,653	2582,763	PN
3818	91882,503	98162,299	2583,707	CERCA
1994	92736,803	97886,806	2580,361	CERRAM
1519	92780,040	97557,753	2578,750	PN
1757	92999,879	97021,691	2579,231	BL_RIO
4346	92209,910	97900,927	2577,646	PN
1390	92427,064	97631,493	2578,093	LAMAGUA
1158	92383,641	97661,155	2579,779	PN
1937	92725,601	97218,600	2581,988	CERRAM
1096	92284,711	97668,604	2579,911	PN
3487	91979,605	97970,210	2578,572	PN

PN	ESTE	NORTE	COTA	PD
1020	92352,808	97711,425	2581,004	PN
1036	92254,325	97621,683	2580,341	PN
1028	92706,467	97407,090	2578,930	BL_RIO
1167	92368,524	97708,180	2581,452	PN
498	92696,192	97482,124	2583,241	PN
833	92899,283	97157,492	2579,101	BL_RIO
2549	92830,752	97339,681	2578,933	PBCO
911	92962,652	97804,693	2581,550	PN
1732	92670,204	97362,574	2583,609	PN
1322	92898,599	97000,193	2579,248	BL_RIO
1690	92860,639	97263,967	2579,008	BRIIO
3966	92033,117	98148,224	2577,858	PN
1308	92569,541	97496,726	2578,420	BRIIO
3751	92082,604	97930,322	2577,562	BRIIO
1650	92824,406	97366,870	2581,826	PN
2056	92862,745	97876,161	2578,422	BRIIO
3562	91981,713	97938,230	2577,848	PN
3616	91937,433	97901,110	2584,202	PN
3618	91944,943	97882,984	2584,558	PN
1533	92849,690	97560,896	2578,988	PN
1547	92943,787	97630,011	2580,751	PN
1014	92399,209	97752,246	2581,076	PN
3743	91839,175	97816,486	2585,725	TALTA
730	92761,893	97583,869	2578,996	PBCO
5	92412,702	97484,787	2577,845	LAM
2595	92909,226	96762,089	2584,099	CERCA
1901	92761,997	97252,897	2584,135	PN
3121	92258,769	97794,156	2581,235	DEL4

PN	ESTE	NORTE	COTA	PD
3362	92127,580	97790,528	2578,181	PN
232	92565,447	97381,261	2581,882	PN
341	92327,462	97595,402	2578,972	PN
3156	92250,848	97814,411	2578,732	BBCO
2014	92896,359	97788,200	2581,196	BBCO
833	92848,218	97911,657	2580,445	CERCA
3978	91996,018	98090,537	2576,800	PN
226	92499,046	97392,353	2581,156	PN
3188	92165,970	97921,487	2577,323	PN
4390	92991,314	96837,614	2579,395	BRIO
62	92326,710	97580,725	2579,136	HB
3672	91850,505	97918,860	2584,059	CERCA
1236	92652,561	97681,719	2578,067	BRIO
218	92434,944	97413,033	2580,860	PN
727	92735,504	97483,155	2578,866	BL_RIO
583	92655,035	97662,519	2578,331	BORRIO
3240	92224,388	97812,170	2576,769	PN
2474	92911,598	97366,585	2583,195	PN
726	92726,194	97561,670	2579,314	PBCO
3956	91964,638	98171,471	2577,018	PN
3112	92131,968	97731,237	2580,259	PN
1851	92787,010	97238,559	2580,865	PN
2151	92933,267	96938,697	2581,486	PN
2319	92889,166	97052,280	2578,401	PN
4061	92059,735	98047,058	2577,605	PN
3367	92132,605	97809,170	2577,321	PN
2187	92881,950	97012,483	2580,271	PN
1063	92277,807	97534,936	2577,655	PN

PN	ESTE	NORTE	COTA	PD
2152	92913,580	96943,772	2581,558	PN
2077	92782,263	97888,772	2579,319	PN
1657	92808,029	97361,161	2581,181	PN
3488	91981,172	97972,944	2576,648	PN
2610	92901,984	96792,553	2582,059	PN
3919	91977,542	98151,211	2582,111	PN
2246	92887,429	97150,658	2580,650	PN
2025	92900,314	97776,996	2581,694	PN
2784	92966,203	97011,173	2579,566	PN
765	92950,327	97752,704	2579,433	PBCO
124	92498,505	97413,945	2582,639	BBCO
4316	92199,756	97933,273	2577,684	BRIO
4007	91994,896	97997,282	2577,317	PN
989	92280,679	97748,434	2577,409	BRIO
97	92409,394	97527,781	2579,290	HB
2241	92962,193	97085,281	2577,905	PN
662	92786,386	97582,919	2580,540	BORBCO
465	92708,978	97475,259	2582,797	PN
3277	92195,608	97871,411	2577,444	BBCO
3191	92169,136	97930,442	2579,151	PN
2028	92918,785	97761,812	2581,156	PN
2796	92917,974	96995,475	2580,372	PN
3719	91938,323	98107,754	2580,470	PN
3258	92852,740	97228,265	2579,062	BL_RIO
1881	92681,481	97299,604	2582,451	PN
3536	92111,826	97720,630	2581,017	CERCA
2350	92833,637	97021,989	2583,003	CERCA
3682	91915,313	97995,146	2581,561	CERCA

PN	ESTE	NORTE	COTA	PD
1596	92847,108	97465,921	2580,170	PN
355	92309,948	97477,168	2578,745	PN
4066	92064,283	98075,147	2580,137	PN
305	92301,704	97419,384	2580,184	PN
1105	92343,422	97640,294	2578,216	PN
307	92275,620	97421,967	2580,035	PN
1810	92823,115	97264,505	2577,057	PBCO
4210	92117,027	97870,498	2578,498	PN
708	92934,811	97678,294	2580,520	PN
2774	93023,628	97020,365	2578,907	BRIIO
1640	92828,467	97390,219	2583,555	PN
1025	92323,859	97692,783	2580,311	PN
1333	92780,556	97306,182	2579,012	BL_RIO
1058	92261,375	97524,551	2581,753	PN
3104	92137,953	97693,189	2581,069	CERCA
3720	91936,605	98095,643	2580,761	PN
1279	92646,683	97587,848	2580,131	PN
1809	92821,886	97214,860	2579,512	PN
1683	92857,012	97514,186	2578,455	LAMAGUA
3654	91972,391	97808,625	2583,158	CERCA
2100	92722,254	97865,215	2580,708	CERRAM
1164	92332,472	97673,679	2579,697	PN
2755	93015,504	96881,216	2578,867	BRIIO
2587	92869,928	96863,797	2584,921	CERCA
3613	91908,759	97889,545	2584,703	PN
2553	92868,993	97314,993	2580,058	BBCO
1016	92387,987	97742,097	2581,308	PN
1917	92809,223	97166,472	2580,416	PN

PN	ESTE	NORTE	COTA	PD
3805	91916,720	98214,639	2582,755	CERCA
1348	92443,551	97491,953	2578,619	PN
2303	92892,025	97079,768	2578,824	PN
2694	92953,045	96815,022	2579,991	PN
4237	92118,526	97853,303	2577,993	PN
3466	93020,791	97022,184	2579,221	BL_RIO
787	92880,765	97795,146	2578,160	LAMAGUA
3783	91975,025	98017,641	2576,950	BRIIO
2269	92829,209	97131,250	2578,769	PN
3102	92147,836	97675,272	2581,259	CERCA
1727	92670,038	97380,957	2583,467	PN
3696	91968,941	98163,114	2577,685	PN
3643	91913,334	97927,667	2583,731	PN
356	92316,330	97477,941	2578,074	PN
4064	92056,868	98059,332	2577,082	PN
85	92382,544	97569,480	2580,673	HB
1696	92794,652	97290,855	2579,301	BRIIO
4222	92104,584	97834,550	2578,636	PN
1116	92378,633	97645,669	2579,408	PN
2669	92886,729	97615,489	2578,758	BL_RIO
2244	92911,390	97142,944	2580,947	PN
1301	92574,573	97519,136	2578,673	PN
1235	92662,233	97691,358	2578,204	BRIIO
1317	92542,174	97464,511	2579,502	BRIIO
3078	92164,082	97587,375	2581,708	PN
1569	92944,365	97612,263	2581,401	PN
90	92385,926	97558,330	2579,541	HB
3201	92145,313	97897,921	2579,538	BBCO

PN	ESTE	NORTE	COTA	PD
2427	92944,533	97320,076	2582,147	PN
2814	92766,524	97305,234	2579,006	BL_RIO
3210	92128,817	97944,785	2576,922	PBCO
4444	92909,280	96947,275	2579,564	BRIO
4281	92112,084	98005,062	2580,352	PN
3939	91969,332	98163,410	2577,668	PN
1681	92856,980	97492,035	2578,805	LAMAGUA
2903	92967,897	97186,588	2586,014	PN
3825	91908,897	98103,933	2580,775	CERCA
1495	92747,870	97486,381	2579,474	PN
900	93012,641	97685,874	2582,364	PN
1563	92967,232	97641,578	2582,990	PN
3144	92234,299	97779,220	2577,157	PN
48	92314,875	97535,769	2580,057	HB
4043	92032,929	98071,515	2576,889	PN
2046	92922,683	96961,701	2579,274	BL_RIO
2983	92210,000	97508,989	2577,934	BBCO
2368	92827,402	97309,329	2578,217	LANAGUA
3433	92118,618	97757,940	2578,040	PN
3826	91913,270	98087,807	2581,283	CERCA
2929	92977,095	97064,006	2578,639	PN
664	92815,927	97580,543	2580,632	BORBCO
1797	92835,946	97179,582	2579,090	BL_RIO
831	92880,409	97883,803	2580,158	CERCA
3628	91859,408	97867,544	2584,753	PN
1121	92402,309	97631,359	2580,273	PN
3865	91916,845	98194,970	2580,020	PN
61	92329,105	97577,413	2578,982	HB

PN	ESTE	NORTE	COTA	PD
3214	92121,157	97955,927	2581,113	PN
1718	92706,398	97466,533	2582,977	PN
3033	92166,640	97517,667	2581,991	PN
2376	92733,854	97522,866	2578,837	BL_RIO
578	92963,805	97699,604	2578,576	BORRIO
1001	92306,704	97740,716	2580,044	PN
1162	92345,265	97677,735	2580,153	PN
3381	92175,360	97825,207	2578,506	PN
1909	92800,383	97207,306	2582,994	PN
4136	92032,922	97968,393	2576,927	PN
3135	92254,571	97761,984	2577,799	PBCO
2453	92876,212	97273,312	2579,551	BBARANCO
1821	92822,740	97191,748	2581,028	PN
755	92882,552	97654,601	2579,076	PBCO
94	92394,964	97544,769	2580,537	HB
970	92302,597	97797,585	2580,316	PN
532	92880,613	97622,290	2578,758	BL_RIO
2902	92983,004	97186,128	2586,082	PN
4360	92264,948	97857,464	2580,491	PN
1032	92281,162	97659,054	2579,617	PN
2016	92884,746	97781,463	2580,950	BBCO
2778	92980,232	96993,441	2579,868	PN
55	92324,204	97564,118	2580,559	HB
4085	92074,804	97952,606	2579,345	DEL7
1499	92755,107	97500,272	2579,082	PN
3180	92169,580	97884,805	2576,937	PBCO
3320	92180,704	97733,722	2579,709	PN
986	92324,784	97772,978	2580,497	PN

PN	ESTE	NORTE	COTA	PD
613	92663,758	97658,438	2578,800	PN
2812	92922,045	96975,580	2580,283	PN
170	92520,088	97406,683	2582,891	PN
1283	92634,852	97577,049	2579,375	PN
727	92998,977	97013,573	2579,231	BL_RIO
295	92280,402	97406,178	2579,931	PN
2853	93023,359	96966,324	2583,803	PN
360	92336,618	97435,300	2581,171	PN
206	92362,567	97414,105	2580,700	PN
1325	92467,757	97474,655	2578,189	PN
3883	91954,195	98110,412	2577,092	PN
4173	92044,343	97919,910	2577,045	PN
319	92216,306	97478,679	2581,582	PN
527	92597,803	97409,969	2581,853	PN
918	92946,905	97799,682	2581,359	PN
4135	92066,044	97964,611	2577,527	PN
2380	92811,400	97342,556	2580,834	CERCA
3934	91999,971	98154,624	2577,057	PN
3677	91884,776	97946,460	2582,395	CERCA
2149	92932,297	96928,257	2580,767	PN
3768	92082,171	97839,303	2576,853	BRIIO
2359	92815,487	97097,231	2581,350	CERCA
3753	92086,220	97917,080	2577,531	BRIIO
1002	92332,727	97746,515	2581,100	PN
1626	92804,980	97412,160	2583,962	PN
1135	92431,774	97665,764	2579,346	PN
3100	92147,901	97652,696	2581,171	CERCA
2036	92829,771	97872,126	2580,908	PN

PN	ESTE	NORTE	COTA	PD
4258	92122,912	97842,263	2577,152	PN
3776	92048,503	97907,306	2576,874	BRIIO
1558	92992,065	97657,071	2582,369	PN
2990	92200,769	97514,109	2577,967	PBCO
1237	92640,470	97670,891	2578,515	BRIIO
2716	92969,489	96876,875	2580,113	PN
4131	92046,394	97954,243	2576,819	PN
1840	92799,372	97248,394	2578,419	PBCO
2986	93011,254	97081,575	2579,173	BL_RIO
2228	92966,042	97143,107	2581,118	PN
3951	91943,893	98163,079	2578,199	PN
3090	92728,937	97367,263	2578,958	BL_RIO
3951	93020,800	97107,555	2579,154	BL_RIO
2633	92893,114	96929,775	2581,054	PN
1833	92758,221	97301,553	2578,046	PBCO
2408	92952,489	97325,972	2585,810	PN
3905	91972,231	98107,803	2578,657	PN
1046	92298,279	97616,174	2579,254	.
2920	93033,323	96910,325	2584,797	CERRAM
2439	92836,627	97347,773	2579,815	PN
3312	92200,592	97722,990	2577,954	PN
1273	92620,165	97596,804	2578,460	PN
3290	92225,604	97877,903	2578,180	PN
2406	92963,574	97311,695	2586,313	PN
2870	93015,141	96993,595	2584,193	PN
2638	92920,577	97652,282	2578,734	BL_RIO
1740	92694,158	97337,704	2583,122	PN
2267	92824,400	97121,746	2580,590	PN

PN	ESTE	NORTE	COTA	PD
4	92410,839	97477,155	2577,666	LAM
3881	91947,813	98123,202	2577,169	PN
2994	92201,149	97487,892	2577,740	PBCO
2609	92917,687	96791,105	2581,086	PN
981	92356,882	97791,601	2580,719	PN
3313	92198,224	97720,245	2578,722	PN
4330	92229,139	97946,785	2580,173	CERRAM
2934	92982,061	97120,801	2577,821	PN
4394	92981,847	96938,276	2579,295	BRIO
2660	92917,244	96871,529	2582,302	PN
1187	92467,252	97730,281	2581,214	PN
2579	92904,880	97257,995	2579,943	PN
2422	92920,553	97339,692	2578,893	PN
1662	92798,330	97341,394	2580,386	CERCA
2384	92853,538	97362,664	2580,844	CERCA
2744	92987,005	96827,736	2580,621	BRIO
2059	92823,278	97910,174	2578,562	BRIO
4053	92042,671	98050,464	2576,442	PN
858	92925,972	97559,443	2581,007	CERRAM
1287	92621,177	97566,557	2579,600	PN
3706	91957,782	98117,583	2576,918	PN
3361	92137,964	97799,363	2577,266	PN
2426	92952,312	97304,323	2582,040	PN
2544	92861,710	97333,217	2578,557	PBCO
98	92405,884	97540,544	2579,041	BRIO
1625	92782,027	97395,672	2580,435	PN
952	92494,614	97725,070	2579,116	PARED
2791	92935,570	96997,406	2579,531	PN

PN	ESTE	NORTE	COTA	PD
1787	92833,751	97273,367	2579,909	PN
1198	92508,204	97704,371	2577,969	LAMAGUA
104	92455,109	97449,468	2578,607	BRIO
321	92216,009	97492,737	2579,631	PN
853	92963,538	97596,983	2581,310	CERRAM
3264	92273,467	97768,620	2577,316	BBCO
4313	92175,693	97971,819	2577,993	BRIO
1796	92848,078	97259,155	2580,761	PN
165	92540,278	97412,176	2582,644	PN
926	92591,111	97530,180	2579,330	BBCO
245	92613,571	97340,327	2581,909	CERRAM
2501	92872,199	97355,701	2578,802	PBCO
3539	91934,007	97963,811	2581,518	PN
2101	92779,602	97918,146	2579,710	CERRAM
1554	92976,362	97683,875	2578,798	PN
1974	92707,029	97743,437	2578,273	PN
123	92582,085	97460,446	2583,297	BBCO
546	92736,101	97541,887	2578,729	BORRIO
3977	92014,124	98114,751	2577,400	PN
2943	92999,273	97090,930	2581,099	PN
2612	92897,505	96806,434	2582,256	PN
3703	91954,515	98154,361	2577,601	PN
3940	91963,860	98177,857	2577,254	PN
2143	92982,938	96912,709	2581,507	PN
184	92447,701	97432,276	2584,015	PN
1267	92513,627	97611,834	2577,967	LAMAGUA
229	92541,426	97373,562	2581,219	PN
2569	92918,287	97307,614	2579,190	BBCO



PN	ESTE	NORTE	COTA	PD
3319	92171,376	97720,838	2577,636	PN
19	92367,970	97568,900	2577,867	LAM
3208	92141,397	97907,874	2577,466	PBCO
2290	92859,258	97051,758	2579,079	PN
1420	92567,633	97577,197	2579,029	PN
1844	92803,450	97237,863	2580,275	BBCO
2376	92847,714	97214,389	2578,263	LANAGUA
254	92488,991	97377,498	2581,045	CERRAM
2797	92920,497	96992,283	2580,327	PN
4140	92073,790	97968,791	2578,021	PN
3082	92140,808	97586,245	2582,120	PN
3611	92935,106	97026,486	2579,232	BL_RIO
588	92673,149	97680,741	2578,270	BORRIO
2838	93033,684	96933,738	2585,004	PN
4449	92936,330	97791,553	2578,421	BRIO
2560	92908,874	97323,138	2578,757	BBCO
2978	92198,928	97579,161	2576,972	BBCO
2370	92855,333	97307,512	2578,248	LANAGUA
2674	92800,577	97304,310	2579,014	BL_RIO
2030	92926,346	97749,504	2580,494	BBCO
4424	92351,128	97629,391	2577,843	PN
2313	92910,281	97093,013	2578,697	PN
3151	92252,919	97807,898	2579,313	PBCO
3586	91984,310	97811,790	2583,017	PN
2248	92951,085	97078,781	2578,743	PN
399	92649,953	97531,833	2584,511	PN
4295	92074,803	97952,605	2579,626	CHKDEL7
1220	92629,078	97694,717	2579,333	PN

PN	ESTE	NORTE	COTA	PD
4041	92032,014	98061,029	2577,345	PN
1827	92764,140	97290,947	2578,122	PBCO
1483	92710,793	97401,874	2578,320	BRIO
427	92591,797	97474,796	2583,921	PN
3292	92249,209	97855,257	2578,007	PN
2349	92836,584	97005,457	2583,147	CERCA
3553	91932,551	97944,878	2582,802	PN
1717	92692,641	97423,158	2582,486	PN
2205	92988,727	97032,720	2581,380	PN
2789	92947,248	97004,131	2580,541	PN
4285	92133,387	98004,957	2580,257	PN
2879	93052,636	97045,338	2585,136	PN
1459	92910,913	97631,815	2578,986	BRIO
743	92846,825	97601,042	2578,711	PBCO
387	92330,390	97461,451	2581,071	PN
2388	92898,234	97361,224	2580,978	CERCA
2489	92881,685	97255,747	2580,746	PN
3009	92182,635	97636,526	2581,907	PN
3902	91998,669	98177,936	2576,468	PN
1936	92736,008	97207,048	2582,250	CERRAM
4359	92260,153	97866,065	2580,533	PN
3464	92025,001	97884,061	2578,752	PN
290	92222,937	97393,473	2580,256	ZODURA
21	92364,215	97577,463	2577,723	LAM
1943	92666,158	97283,684	2582,367	CERRAM
825	92940,422	97809,013	2581,366	CERCA
347	92308,925	97525,872	2577,952	PN
2329	92825,051	97037,370	2583,002	CERRAM

PN	ESTE	NORTE	COTA	PD
4421	92312,924	97583,362	2577,483	BRIO
1017	92373,824	97728,559	2581,466	PN
4017	92017,489	98038,856	2577,808	PN
1428	92782,926	97361,931	2581,008	PN
2212	92999,906	97045,198	2581,051	PN
3762	92002,807	98147,135	2576,711	BRIO
3998	91988,740	98032,995	2576,680	PN
1024	92284,742	97690,542	2580,108	PN
4383	92117,699	97985,142	2577,376	BRIO
573	92926,300	97658,144	2578,527	BORRIO
554	92772,574	97578,002	2579,540	BORRIO
2852	93027,429	96968,515	2586,362	PN
1719	92692,668	97406,269	2582,410	PN
3154	92248,984	97812,675	2578,529	BBCO
2075	92792,812	97889,747	2579,733	PN
1735	92663,446	97349,503	2583,073	PN
1987	92733,685	97829,670	2578,152	BRIO
2975	92216,418	97541,932	2577,937	BBCO
1783	92844,935	97286,478	2580,509	PN
1123	92402,227	97632,611	2579,710	PN
1134	92456,133	97671,266	2578,649	PN
3515	91951,693	97865,495	2584,231	PN
3337	92171,574	97744,199	2579,053	PBCO
3861	91873,650	98204,190	2580,602	PN
849	93019,058	97656,388	2581,658	CERRAM
2658	92922,592	96884,773	2581,449	PN
74	92353,402	97587,162	2580,459	HB
3309	92204,645	97729,234	2577,985	PN

PN	ESTE	NORTE	COTA	PD
2613	92907,130	96808,313	2582,303	PN
3849	91905,804	98167,804	2580,666	PN
3141	92225,088	97750,431	2577,523	PBCO
2747	92983,548	96791,762	2580,527	BRIO
3879	91948,386	98131,164	2577,333	PN
366	92247,413	97456,594	2580,124	PN
3982	91984,461	98071,022	2577,015	PN
180	92470,774	97421,460	2582,588	PN
800	92818,567	97867,383	2578,224	LAMAGUA
1752	92719,284	97355,974	2580,739	PN
4132	92027,486	97961,017	2578,464	PN
67	92339,348	97591,918	2583,162	HB
178	92483,204	97412,513	2581,790	PN
2561	92904,374	97317,285	2579,213	BBCO
2378	92832,990	97182,495	2578,253	LANAGUA
3089	92153,535	97634,609	2581,436	PN
811	92737,930	97708,558	2578,553	LAMAGUA
649	92662,272	97589,652	2577,888	LAMAGUA
1583	92871,170	97518,319	2581,463	PN
1453	92978,034	97713,256	2579,184	BRIO
3647	91895,947	97942,407	2583,155	PN
2278	92865,396	97112,236	2578,258	PN
2648	92917,643	96896,372	2580,954	PN
1646	92818,987	97368,878	2584,086	PN
2728	92958,475	96918,846	2581,329	PN
2656	92928,948	96893,927	2580,902	PN
689	92864,261	97849,536	2579,739	BORBCO
166	92542,604	97411,155	2581,616	PN

PN	ESTE	NORTE	COTA	PD
531	92599,027	97376,756	2582,232	PN
2594	92907,644	96769,448	2583,272	CERCA
4090	92120,084	98000,759	2579,211	BRIO
119	92452,469	97440,066	2582,886	BBCO
2105	93011,125	97081,510	2579,173	BL_RIO
2211	92957,526	97070,004	2579,017	PN
2398	92954,762	97196,269	2585,909	PN
616	92673,001	97641,605	2579,714	PN
2706	92965,857	96836,919	2580,004	PN
3731	91932,322	98067,014	2580,463	PN
4321	92142,196	98006,004	2580,599	CHKDEL8
223	92487,504	97387,037	2581,047	PN
2711	92975,849	96854,512	2580,435	PN
1464	92864,925	97588,617	2578,548	BRIO
283	92240,836	97385,301	2580,240	ZODURA
3436	92110,842	97781,016	2576,598	PN
2558	92904,226	97335,355	2578,775	BBCO
1202	92537,395	97701,696	2580,209	PN
4133	92055,670	97958,527	2577,112	PN
434	92606,525	97509,027	2579,729	PN
3708	91968,059	98124,706	2577,002	PN
2809	92896,492	96966,765	2580,377	PN
22	92359,865	97576,033	2577,739	LAM
2985	92206,773	97460,052	2577,453	BBCO
4307	92158,743	97990,311	2578,171	PN
4255	92132,149	97853,428	2577,142	PN
1044	92300,165	97626,692	2580,381	.
3379	92177,547	97816,170	2577,553	PN

PN	ESTE	NORTE	COTA	PD
2224	92990,696	97111,395	2578,627	PN
1548	92948,011	97634,752	2580,991	PN
2860	93005,588	96974,942	2583,892	PN
3867	91909,275	98181,631	2580,398	PN
529	92604,395	97388,658	2581,727	PN
1431	92816,436	97442,722	2583,462	PN
2771	92932,535	97015,057	2578,986	BRIO
1018	92335,323	97727,671	2581,250	PN
2121	93009,162	97033,549	2579,299	BRIO
296	92294,632	97405,286	2580,204	PN
3138	92248,692	97795,951	2577,112	PBCO
3130	92243,619	97748,376	2579,728	BBCO
3973	92009,726	98112,078	2576,610	PN
379	92268,164	97471,894	2582,030	PN
2120	93009,611	97065,666	2579,541	BRIO
1250	92779,619	97573,749	2578,802	BL_RIO
3334	92167,099	97737,774	2578,982	PBCO
2874	93028,079	97007,840	2585,006	PN
2455	92866,019	97249,730	2579,488	BBARANCO
2027	92914,824	97770,349	2581,874	PN
1913	92826,998	97165,091	2580,820	PN
1542	92907,773	97606,862	2580,442	PN
1728	92719,834	97375,831	2578,952	BL_RIO
1600	92842,323	97427,581	2583,646	PN
4386	92148,701	97993,253	2577,589	BRIO
719	92857,897	97841,898	2581,225	PN
3571	92006,504	97896,972	2578,972	PN
3284	92182,305	97938,956	2577,041	BBCO

PN	ESTE	NORTE	COTA	PD
1097	92298,141	97664,656	2579,778	PN
3091	92165,747	97619,987	2581,572	PN
728	92737,038	97577,407	2578,470	PBCO
973	92347,390	97822,066	2580,470	PN
670	92852,101	97614,431	2581,019	BORBCO
3504	91937,411	98004,402	2579,527	PN
2087	92920,628	97021,139	2579,237	BL_RIO
949	92560,237	97683,623	2579,089	PARED
2337	92855,127	96901,067	2584,479	CERCA
2484	92896,819	97315,453	2579,916	PN
3042	92157,815	97471,561	2581,616	CERCA
1616	92767,030	97390,916	2580,264	PN
2425	92947,409	97284,119	2582,221	PN
762	92956,602	97721,226	2578,829	PBCO
3192	92176,247	97933,009	2578,880	PN
250	92549,430	97356,928	2581,171	CERRAM
1304	92559,155	97504,316	2577,852	LAMAGUA
2775	92990,093	97004,958	2579,434	PN
127	92526,321	97412,567	2582,973	BBCO
3797	92028,327	98171,688	2576,638	BRIO
1560	92986,693	97654,026	2582,950	PN
2381	92817,865	97346,247	2580,891	CERCA
3281	92168,956	97909,773	2577,418	BBCO
10	92392,697	97536,357	2577,841	LAM
153	92461,477	97436,817	2580,161	PN
1722	92690,271	97383,999	2582,206	PN
329	92256,285	97492,947	2578,174	PN
3748	92077,566	97951,789	2578,020	BRIO

PN	ESTE	NORTE	COTA	PD
2327	92809,433	97069,662	2582,760	CERRAM
1521	92789,380	97557,294	2579,392	PN
1527	92826,954	97555,352	2578,703	PN
3659	91909,354	97804,202	2584,677	CERCA
2593	92715,854	97450,002	2578,892	BL_RIO
4225	92106,178	97833,285	2579,304	PN
3044	92137,170	97484,708	2581,697	CERCA
781	92836,900	97871,151	2580,116	PBCO
1193	92483,730	97697,043	2580,342	PN
3012	92175,550	97606,969	2581,911	PN
38	92329,847	97481,313	2577,993	LAM
25	92341,967	97580,096	2577,821	LAM
158	92568,322	97436,448	2582,767	PN
2266	92820,515	97125,603	2582,434	PN
1212	92875,183	96984,030	2579,261	BL_RIO
1218	92607,105	97668,245	2580,214	PN
2126	92917,062	97023,445	2580,085	BRIO
1051	92296,704	97575,508	2577,483	BRIO
1061	92267,530	97528,478	2581,494	PN
4378	92083,521	97934,312	2577,210	LAMAGUA
2816	92935,436	96971,668	2580,428	PN
1183	92413,393	97739,062	2581,246	PN
2219	92988,933	97091,042	2578,813	PN
3017	92172,341	97575,040	2581,992	PN
145	92490,521	97425,812	2578,441	PN
1071	92270,257	97580,161	2580,325	PN
1964	92656,701	97737,203	2581,091	PN
2881	93057,918	97051,928	2584,333	PN

PN	ESTE	NORTE	COTA	PD
3538	92258,775	97794,153	2581,175	CHKDEL4
202	92336,187	97419,343	2580,874	PN
873	92796,221	97450,542	2581,011	PN
2677	92960,568	96851,773	2581,141	PN
2995	92185,882	97596,306	2580,289	PBCO
778	92857,917	97846,250	2580,231	PBCO
4029	92050,171	98015,720	2577,133	PN
4076	92043,731	98114,001	2576,553	PN
3615	91915,839	97859,905	2584,925	PN
3096	92159,382	97649,798	2581,132	PN
4312	92184,021	97958,981	2577,330	BRIO
1338	92518,503	97441,795	2578,603	PN
2299	92876,862	97120,895	2578,248	PN
1011	92388,725	97773,244	2580,690	PN
665	92823,308	97582,524	2580,981	BORBCO
1557	92984,236	97669,162	2582,461	PN
1148	92411,378	97676,581	2581,179	PN
2898	93021,397	97174,439	2586,439	PN
487	92678,120	97493,783	2583,237	PN
4079	92044,466	98133,906	2578,015	PN
2966	92210,997	97571,340	2578,442	PN
3507	91938,233	97986,324	2578,416	PN
983	92297,465	97774,731	2578,363	PN
1868	92724,811	97314,517	2578,525	PBCO
1209	92577,102	97653,929	2579,159	PN
3726	91946,896	98088,680	2580,688	PN
3004	92198,860	97665,574	2581,534	PN
1240	92651,245	97615,929	2578,358	BRIO

PN	ESTE	NORTE	COTA	PD
4046	92035,695	98098,011	2576,385	PN
513	92598,552	97428,710	2582,273	MALLA
4055	92046,751	98040,430	2576,601	PN
2873	93009,838	96983,518	2583,153	PN
1293	92595,699	97546,029	2578,577	PN
3541	91924,199	97951,561	2582,380	PN
2010	92822,357	97870,910	2580,808	BBCO
3944	91922,825	98185,114	2579,529	PN
3617	91939,198	97862,243	2584,737	PN
567	92671,350	97574,213	2577,334	BORRIO
3187	92167,675	97868,523	2577,471	PBCO
3591	91971,577	97833,601	2583,090	PN
289	92222,748	97391,570	2580,244	ZODURA
3550	91950,180	97912,954	2583,093	PN
2146	92949,763	96916,173	2580,417	PN
150	92471,676	97429,820	2579,928	PN
3316	92184,618	97709,696	2579,154	PN
2102	92676,449	97553,461	2584,695	CHKDEL1
2581	92872,465	97242,529	2580,204	PN
4391	92993,383	96853,724	2579,243	BRIO
684	92937,419	97773,326	2580,910	BORBCO
3952	91946,345	98156,741	2578,070	PN
3745	92085,898	97970,650	2578,384	BRIO
2089	92812,316	97917,048	2578,633	BRIO
1153	92392,179	97658,410	2579,282	PN
352	92273,655	97485,365	2578,947	PN
4300	92147,528	98006,764	2580,822	CERRAM
3700	91976,803	98139,705	2577,945	PN

PN	ESTE	NORTE	COTA	PD
3608	91870,565	97867,386	2584,880	PN
1602	92842,196	97438,388	2583,961	PN
736	92731,190	97544,062	2579,263	PBCO
318	92217,437	97465,407	2581,526	PN
1978	92717,615	97747,770	2578,720	PN
796	92927,163	97742,965	2578,540	LAMAGUA
1823	92820,829	97187,696	2582,984	PN
359	92325,891	97477,087	2578,258	PN
553	92621,375	97533,927	2578,354	BORRIO
3771	92078,586	97850,928	2576,826	BRIO
3580	91961,469	97835,165	2583,588	PN
1971	92695,750	97732,630	2578,036	PN
3262	92266,785	97758,385	2577,094	BBCO
449	92707,864	97559,241	2579,576	PN
2548	92834,215	97332,862	2578,892	PBCO
1706	92713,316	97378,012	2578,431	BRIO
1092	92264,433	97673,790	2580,373	PN
1201	92527,398	97703,196	2580,174	PN
3784	91968,088	98026,981	2576,764	BRIO
1595	92863,935	97448,999	2581,893	PN
651	92658,584	97574,635	2577,890	LAMAGUA
1410	92671,963	97722,608	2578,100	PN
1219	92635,597	97683,287	2578,469	PN
2131	92868,075	96965,364	2580,137	BRIO
842	92987,076	97762,214	2581,054	SARD
1838	92788,538	97248,661	2581,309	PBCO
1118	92378,117	97635,224	2580,336	PN
91	92389,225	97554,367	2580,639	HB

PN	ESTE	NORTE	COTA	PD
1985	92731,444	97815,627	2578,261	BRIO
942	92641,792	97735,280	2581,546	CERPARED
1970	92689,623	97738,432	2578,186	PN
3957	92050,024	98160,098	2581,846	PN
2038	92886,500	97817,929	2580,970	PN
64	92336,423	97583,803	2581,634	HB
2557	92891,813	97337,154	2578,742	BBCO
587	92710,480	97703,161	2579,028	BORRIO
3853	91890,652	98158,699	2581,276	PN
3195	92154,510	97884,259	2579,150	BBCO
2123	92983,042	97027,751	2580,046	BRIO
1245	92638,120	97612,054	2578,620	PN
688	92875,686	97837,796	2579,899	BORBCO
2188	92868,971	97027,065	2578,961	PN
4168	92049,297	97912,455	2576,771	PN
3498	91962,428	98001,303	2576,901	PN
1067	92252,608	97536,464	2578,330	PN
4438	92867,432	97850,781	2578,468	BRIO
351	92272,138	97487,145	2578,423	PN
2395	92711,269	97439,961	2578,901	BL_RIO
1628	92789,396	97417,835	2583,742	PN
1341	92461,197	97482,964	2579,220	LAMAGUA
1648	92806,115	97370,742	2583,941	PN
3063	92146,049	97533,614	2582,337	PN
2886	93037,680	97067,340	2585,825	PN
1581	92874,002	97558,460	2580,869	PN
2235	92936,401	97143,199	2581,111	PN
4078	92043,213	98130,335	2576,977	PN



PN	ESTE	NORTE	COTA	PD
2516	92920,894	97306,592	2578,862	PBCO
967	92300,483	97823,604	2580,352	PN
1889	92709,488	97270,550	2582,394	PN
2067	92769,725	97805,453	2578,959	PN
1336	92537,455	97457,076	2579,214	PN
2960	92251,002	97545,445	2577,953	PN
3247	92285,299	97755,437	2577,437	BBCO
3126	92264,582	97789,778	2580,517	BBCO
3759	91972,199	98092,681	2576,597	BRIO
3443	92872,892	97279,085	2579,025	BL_RIO
3976	92021,661	98111,731	2578,121	PN
1705	92728,150	97364,738	2578,427	BRIO
2242	92955,623	97083,153	2578,479	PN
3410	92103,211	97798,411	2577,231	BRIO
2742	92992,144	96861,037	2580,415	BRIO
1925	92780,844	97165,382	2581,494	PN
3540	91932,608	97952,588	2582,195	PN
510	92617,383	97471,373	2582,090	MALLA
2236	92957,291	97129,170	2578,385	PN
1442	92355,675	97475,655	2578,020	BRIO
724	92804,249	97874,090	2580,947	PN
1108	92347,722	97650,136	2580,285	PN
2074	92792,982	97885,490	2580,105	PN
1591	92710,987	97397,236	2578,939	BL_RIO
2074	93019,868	97147,051	2579,126	BL_RIO
3343	92150,060	97760,447	2578,485	BBCO
617	92661,807	97647,103	2579,438	PN
4156	92045,730	97941,367	2576,720	PN

PN	ESTE	NORTE	COTA	PD
1802	92838,622	97247,220	2580,720	PN
2110	92908,504	97155,424	2579,637	BRIO
3482	91996,027	97947,158	2576,774	PN
1274	92631,916	97588,185	2578,348	PN
1744	92696,661	97359,173	2582,340	PN
3097	92178,510	97666,871	2581,237	PN
2421	92907,138	97014,076	2579,242	BL_RIO
466	92696,193	97463,122	2583,502	PN
2519	92906,142	97302,255	2579,128	PBCO
50	92319,419	97542,103	2580,227	HB
268	92299,952	97387,602	2580,196	CERRAM
4455	92245,785	97740,191	2577,565	PN
4211	92091,875	97853,788	2576,920	PN
1292	92607,102	97555,244	2578,647	PN
3878	91943,202	98127,550	2579,333	PN
4358	92255,045	97875,482	2580,441	PN
3387	92164,874	97830,079	2577,359	BRIO
596	92734,075	97715,176	2579,622	PN
1478	92739,738	97486,059	2578,707	BRIO
4020	92060,253	98005,369	2576,961	PN
1398	92497,272	97697,373	2578,040	LAMAGUA
2709	92746,179	97349,599	2578,971	BL_RIO
4426	92411,335	97532,226	2577,938	BRIO
1788	92853,279	97276,832	2580,881	PN
1400	92511,002	97704,667	2578,032	LAMAGUA
1843	92813,143	97235,153	2577,016	PBCO
3363	92122,050	97790,096	2577,862	PN
3713	91955,590	98152,094	2577,316	LAMAGUA

PN	ESTE	NORTE	COTA	PD
502	92677,578	97451,888	2582,286	MALLA
4319	92216,865	97911,019	2578,023	PN
4103	92050,222	97984,702	2577,851	PN
1865	92735,932	97308,647	2577,892	PBCO
1189	92480,132	97724,337	2580,864	PN
2717	92975,239	96885,959	2580,651	PN
3712	91966,207	98141,991	2575,984	LAMAGUA
2475	92904,056	97367,918	2583,409	PN
971	92322,169	97843,095	2580,280	PN
2103	92834,519	97211,468	2579,861	BRIIO
2300	92888,982	97116,672	2578,560	PN
1573	92933,376	97582,360	2580,740	PN
3496	91962,020	97991,795	2578,726	PN
3213	92123,927	97953,696	2578,976	PN
89	92415,050	97510,567	2578,995	HB
1743	92754,941	97327,489	2579,304	PN
1886	92722,841	97292,889	2582,947	PN
1820	92786,514	97278,084	2578,828	PBCO
2389	92905,644	97360,654	2580,706	CERCA
2105	92735,292	97374,765	2578,958	BL_RIO
3937	91973,802	98173,759	2577,388	PN
3238	92217,342	97819,385	2576,712	PN
3235	92199,441	97829,363	2576,996	PN
3237	92746,981	97543,363	2578,819	BL_RIO
3948	91935,194	98166,657	2578,531	PN
2817	92967,709	96956,204	2581,358	PN
3384	92170,276	97831,555	2577,358	PN
624	92686,632	97629,544	2579,392	PN

PN	ESTE	NORTE	COTA	PD
4235	92110,109	97837,196	2577,343	PN
3796	92027,349	98155,738	2576,551	BRIIO
1331	92514,117	97433,166	2578,383	BRIIO
2332	92828,376	96991,717	2583,155	CERRAM
3975	92002,625	98101,131	2576,696	PN
3461	92012,764	97876,174	2580,844	PN
2578	92901,842	97275,621	2579,959	PN
972	92314,402	97808,684	2580,764	PN
2753	93006,210	96851,040	2579,243	BRIIO
35	92315,785	97523,062	2578,005	LAM
4436	92849,139	97869,322	2578,422	BRIIO
1919	92807,466	97134,672	2581,390	PN
3416	92141,220	97759,308	2576,738	PN
3196	92155,296	97951,848	2579,343	PN
2568	92908,551	97303,728	2578,942	BBCO
2099	92753,485	97906,626	2580,162	CERRAM
2891	93053,654	97097,992	2583,807	PN
856	92941,688	97575,074	2581,064	CERRAM
610	92678,462	97646,778	2581,034	PN
4098	92061,658	97996,444	2577,632	PN
1490	92732,327	97457,392	2578,936	PN
1479	92731,634	97470,804	2578,730	BRIIO
80	92371,267	97579,336	2580,839	HB
60	92390,233	97466,733	2580,392	HB
2608	92921,565	96779,452	2581,173	PN
3596	91895,300	97812,389	2585,218	PN
1777	92799,939	97277,412	2581,326	PN
3551	91949,916	97919,968	2582,865	PN

PN	ESTE	NORTE	COTA	PD
1174	92397,960	97725,190	2581,563	PN
1206	92567,377	97660,572	2578,066	LAMAGUA
81	92415,931	97495,224	2579,565	HB
3215	92118,636	97959,595	2580,737	PN
2554	92871,337	97328,400	2579,168	BBCO
4289	92153,655	98004,004	2580,445	CERRAM
1213	92595,131	97640,838	2578,860	PN
3907	91976,081	98116,149	2578,012	PN
3419	92132,158	97747,262	2578,528	PN
3670	91834,204	97907,006	2583,880	CERCA
2415	92927,821	97261,465	2581,499	PN
963	92313,179	97850,128	2580,118	PARED
2431	92927,685	97355,290	2581,862	PN
3839	91914,158	98119,440	2580,326	PN
1048	92285,658	97587,941	2580,261	.
2444	92976,441	97160,701	2579,106	BL_RIO
1048	92699,501	97418,034	2578,920	BL_RIO
1243	92651,215	97593,726	2578,624	PN
3359	92146,048	97800,666	2577,040	PN
2521	92897,090	97299,171	2579,031	PBCO
419	92610,320	97479,596	2583,386	PN
1661	92799,701	97343,712	2580,708	CERCA
131	92556,053	97427,881	2582,464	BBCO
2494	92897,392	97186,359	2580,563	PN
2762	92936,283	96959,556	2579,277	BRIO
293	92255,251	97409,414	2579,800	PN
115	92562,716	97456,330	2578,059	BRIO
456	92714,292	97522,925	2581,988	PN

PN	ESTE	NORTE	COTA	PD
286	92911,439	97167,515	2579,102	BL_RIO
3980	91990,150	98079,657	2576,873	PN
300	92344,890	97402,905	2580,595	PN
292	92237,942	97410,021	2579,626	PN
1618	92794,406	97434,934	2582,462	PN
52	92321,367	97553,682	2580,768	HB
691	92845,517	97868,249	2579,825	BORBCO
3114	92148,819	97722,080	2580,955	PN
1903	92801,093	97295,676	2579,014	BL_RIO
3568	91985,280	97912,182	2578,646	PN
2107	92838,086	97174,863	2579,555	BRIO
1392	92446,491	97653,250	2578,017	LAMAGUA
2284	92824,530	97065,049	2580,420	PN
87	92409,267	97507,726	2579,914	HB
3452	92034,990	97847,015	2580,534	PN
2957	92244,426	97619,555	2577,989	PN
679	92952,048	97697,629	2581,086	BORBCO
3892	91954,764	98059,287	2578,071	PN
869	92819,725	97431,189	2583,714	PN
759	92910,799	97666,163	2579,240	PBCO
1320	92496,050	97459,548	2577,984	LAMAGUA
1277	92641,694	97579,303	2579,182	PN
227	92521,257	97378,102	2581,123	PN
1289	92605,016	97560,688	2578,329	PN
1741	92752,328	97333,724	2579,084	PN
84	92381,173	97567,685	2580,626	HB
2798	92921,049	96990,324	2579,910	PN
2887	93042,937	97072,357	2586,501	PN

PN	ESTE	NORTE	COTA	PD
3427	92115,128	97741,356	2578,835	PN
3326	92173,127	97737,715	2579,613	PN
861	92883,495	97490,584	2580,960	CERRAM
1574	92921,837	97573,088	2580,792	PN
154	92579,309	97446,716	2582,854	PN
31	92338,698	97484,997	2578,124	LAM
3626	91885,897	97855,035	2584,968	PN
2383	92843,976	97360,467	2580,711	CERCA
2961	92228,389	97544,143	2579,003	PN
2976	92208,464	97555,088	2577,832	BBCO
1846	92812,489	97218,757	2580,496	BBCO
2411	93007,892	97023,524	2579,226	BL_RIO
1407	92658,474	97741,595	2581,041	PN
2867	92999,131	96985,463	2583,219	PN
2895	93033,922	97164,828	2586,442	PN
901	93009,245	97700,438	2582,287	PN
433	92600,974	97499,865	2580,110	PN
1136	92450,534	97677,991	2580,273	PN
1800	92845,959	97271,592	2582,034	PN
3389	92165,449	97852,973	2577,275	BRIO
488	92671,101	97504,436	2583,781	PN
2749	92998,257	96784,159	2579,338	BRIO
1066	92242,294	97533,470	2580,909	PN
1908	92926,111	97160,712	2579,103	BL_RIO
2627	92869,779	96885,527	2582,547	PN
2627	92840,679	97195,931	2579,080	BL_RIO
785	92893,900	97799,757	2579,624	BBCO
3903	91967,646	98100,451	2578,509	PN

PN	ESTE	NORTE	COTA	PD
1302	92573,626	97520,555	2579,144	PN
4143	92078,979	97970,731	2578,975	PN
3414	92123,395	97770,314	2576,465	PN
3224	92118,499	97920,326	2579,958	PN
1517	92766,144	97554,784	2578,999	PN
2906	92952,364	97200,339	2585,991	PN
252	92520,764	97364,917	2581,079	CERRAM
4317	92209,876	97929,275	2577,737	PN
543	92658,997	97354,576	2583,040	PN
2430	92816,170	97571,947	2578,798	BL_RIO
3443	92061,804	97815,278	2580,364	PN
8	92399,445	97515,452	2577,806	LAM
874	92791,069	97454,405	2580,344	PN
312	92218,394	97428,651	2580,102	PN
3844	91919,323	98133,690	2580,325	PN
2043	92848,304	97854,008	2581,286	PN
1710	92695,913	97413,811	2579,779	BRIO
2564	92898,385	97307,687	2578,875	BBCO
454	92710,849	97522,823	2583,772	PN
107	92359,818	97607,901	2578,210	BRIO
1636	92819,771	97400,670	2583,741	PN
3346	92152,797	97764,533	2577,512	PN
361	92334,652	97435,810	2580,563	PN
741	92815,719	97605,746	2579,021	PBCO
70	92345,876	97591,498	2582,067	HB
1394	92462,256	97668,808	2578,039	LAMAGUA
1238	92636,741	97661,697	2578,189	BRIO
1252	92604,341	97647,888	2578,847	PN

PN	ESTE	NORTE	COTA	PD
238	92623,275	97348,522	2582,207	PN
201	92338,107	97457,199	2581,423	PN
2917	93051,631	97035,030	2584,887	CERRAM
2987	92192,496	97556,504	2578,235	PBCO
540	92649,140	97373,967	2581,894	PN
786	92860,385	97770,356	2578,393	LAMAGUA
3444	92091,675	97799,528	2577,400	PN
404	92631,173	97524,644	2583,480	PN
2804	92896,993	96975,133	2581,747	PN
828	92923,944	97832,260	2580,854	CERCA
4354	92242,232	97899,202	2580,363	PN
2679	92963,657	96850,418	2579,691	PN
2997	92200,340	97471,901	2577,940	PBCO
1942	92679,585	97269,093	2582,280	CERRAM
2114	92993,122	97150,019	2579,295	BRIO
3391	92142,674	97877,550	2577,099	BRIO
1345	92440,067	97489,680	2577,682	BRIO
213	92408,366	97404,384	2580,572	PN
335	92306,388	97546,419	2578,134	PN
400	92651,567	97529,671	2583,531	PN
1975	92702,265	97752,857	2578,434	PN
346	92310,121	97529,713	2578,559	PN
3165	92222,105	97838,571	2579,044	BBCO
1156	92384,232	97655,117	2579,401	PN
4008	92001,900	98017,496	2576,728	PN
2456	92859,036	97235,874	2579,854	BBARANCO
2473	92923,833	97369,750	2583,407	PN
231	92560,927	97368,800	2581,325	PN

PN	ESTE	NORTE	COTA	PD
328	92245,970	97497,792	2577,772	PN
1591	92860,554	97463,525	2581,938	PN
2035	92843,657	97864,338	2579,765	PBCO
3906	91967,029	98112,452	2578,479	PN
134	92571,419	97455,050	2578,987	PBCO
3242	92201,860	97796,772	2577,235	PN
3592	91927,058	97815,552	2584,618	PN
3725	91956,210	98076,637	2579,272	PN
879	92818,130	97456,797	2581,062	PN
2756	93019,490	96923,792	2580,408	BRIO
4234	92110,439	97837,296	2577,648	PN
1298	92582,696	97533,859	2579,148	LAMAGUA
211	92392,453	97407,352	2580,634	PN
3140	92220,409	97741,511	2577,649	PBCO
4380	92083,780	97963,912	2577,226	LAMAGUA
2080	92784,496	97879,097	2581,558	PN
694	92729,439	97552,036	2580,276	PN
4442	93011,429	96923,101	2579,071	BRIO
2568	92846,862	97215,088	2579,071	BL_RIO
1929	92773,120	97187,904	2581,753	PN
696	92740,185	97568,311	2579,974	PN
3179	92180,536	97871,544	2577,257	PBCO
3766	92052,960	98150,938	2580,728	CERRAM
2724	92951,643	96906,308	2580,248	PN
4004	91989,010	98014,224	2577,574	PN
3099	92155,671	97665,599	2581,227	PN
1592	92861,620	97500,361	2580,554	PN
4208	92119,033	97872,427	2577,355	PN

PN	ESTE	NORTE	COTA	PD
4416	92984,764	96922,610	2579,295	BRIO
2550	92832,588	97328,169	2579,841	BBCO
2154	92893,271	96922,415	2580,983	PN
3301	92174,233	97797,451	2578,111	PN
2185	92878,755	97014,472	2579,646	PN
2743	92847,469	97170,004	2579,095	BL_RIO
1088	92264,143	97662,261	2579,832	PN
3395	92122,628	97809,644	2576,987	BRIO
3718	91946,314	98111,250	2580,052	PN
564	92841,105	97583,354	2578,775	BORRIO
3864	91871,024	98215,016	2579,992	PN
4155	92051,681	97946,313	2576,823	PN
615	92659,528	97647,823	2578,259	PN
455	92721,455	97520,939	2581,914	PN
535	93020,164	97070,465	2579,183	BL_RIO
2769	92883,398	96969,190	2579,556	BRIO
120	92459,629	97433,052	2582,520	BBCO
3497	91963,390	97994,797	2577,852	PN
3349	92143,167	97765,049	2576,495	PN
1115	92380,584	97651,608	2579,039	PN
705	92875,585	97639,938	2579,947	PN
520	92550,516	97393,821	2581,676	PN
4134	92029,344	97961,667	2578,487	PN
598	92716,419	97700,476	2579,217	PN
2366	92732,084	97510,459	2578,847	BL_RIO
1114	92368,358	97653,422	2579,049	PN
1750	92711,614	97358,109	2580,861	PN
3035	92167,388	97503,870	2582,060	PN

PN	ESTE	NORTE	COTA	PD
1612	92819,366	97454,744	2581,158	PN
2324	92862,887	97170,954	2579,097	BL_RIO
3756	91962,385	98064,038	2576,730	BRIO
3699	91972,296	98148,039	2577,662	PN
2252	92873,710	97150,049	2580,432	PN
2802	92907,509	96977,493	2580,012	PN
2216	92996,234	97075,308	2579,920	PN
1995	92708,042	97844,118	2580,719	CERRAM
3574	91978,720	97869,211	2582,534	PN
113	92541,818	97431,497	2578,458	BRIO
194	92386,244	97450,559	2581,796	PN
261	92394,906	97399,061	2580,502	CERRAM
1627	92783,562	97387,916	2580,274	PN
477	92680,388	97435,825	2582,231	PN
1550	92945,504	97643,994	2579,145	PN
2699	92968,163	96795,741	2581,008	PN
2497	92837,548	97345,237	2578,246	PBCO
4382	92131,760	97988,722	2577,492	BRIO
353	92273,665	97483,665	2578,282	PN
4002	91994,569	98021,470	2576,542	PN
4118	92014,689	97962,670	2577,126	PN
3093	92179,148	97651,496	2581,852	PN
41	92308,460	97511,331	2579,029	HB
2731	92925,606	96918,521	2579,570	PN
2223	93000,613	97101,365	2580,885	PN
426	92647,160	97504,975	2583,695	PN
4415	93002,830	96911,642	2579,071	BRIO
3181	92170,775	97886,178	2577,481	BBCO



PN	ESTE	NORTE	COTA	PD
1448	92279,300	97470,923	2582,360	PN
1368	92425,850	97573,247	2578,145	LAMAGUA
1807	92834,578	97270,082	2578,078	PBCO
2493	92888,048	97187,652	2580,237	PN
1312	92547,188	97482,918	2579,016	LAMAGUA
1767	92816,197	97283,574	2580,155	PN
950	92530,698	97710,331	2578,756	PARED
192	92399,079	97452,419	2584,062	PN
1090	92259,036	97663,496	2580,155	PN
1468	92822,711	97562,101	2578,668	BRIO
2213	93002,670	97065,410	2580,734	PN
3167	92210,961	97848,519	2578,804	BBCO
391	92674,175	97546,506	2584,866	PN
4356	92250,346	97885,273	2580,396	PN
1990	92718,067	97828,496	2578,398	BRIO
2969	92225,602	97543,547	2578,260	PN
2800	92906,669	96984,707	2580,609	PN
39	92304,000	97498,883	2579,064	HB
2525	92871,906	97318,877	2578,783	PBCO
1327	92481,465	97459,970	2578,451	PN
1926	92864,499	97252,575	2579,044	BL_RIO
4063	92068,768	98050,872	2580,199	PN
4102	92050,093	97993,856	2578,051	PN
3117	92165,571	97699,032	2581,200	PN
3279	92177,989	97888,566	2577,529	BBCO
314	92211,133	97439,950	2580,169	PN
1797	93011,590	97069,498	2579,183	BL_RIO
2401	92942,497	97257,588	2585,758	PN

PN	ESTE	NORTE	COTA	PD
612	92679,146	97647,493	2579,852	PN
2968	92218,805	97555,595	2578,584	PN
3537	92118,487	97713,854	2581,175	CERCA
3124	92260,194	97788,639	2580,320	BBCO
3388	92168,858	97839,855	2577,400	BRIO
1962	92699,806	97757,291	2581,352	PN
3693	92027,661	98172,138	2582,639	PTE
4116	92018,536	97971,297	2577,589	PN
1716	92725,047	97487,157	2578,793	BRIO
2529	92885,825	97323,396	2579,158	PBCO
3251	92291,550	97805,547	2577,350	BBCO
3466	92017,035	97898,109	2578,646	PN
2979	92279,791	97499,928	2577,643	BBCO
881	92810,980	97473,483	2580,646	CERCA
629	92687,706	97610,401	2579,560	PN
3607	91867,566	97878,449	2584,789	PN
4036	92031,338	98108,037	2575,784	PN
2559	92904,930	97327,186	2578,725	BBCO
3027	92189,212	97546,269	2581,951	BBCO
1571	92943,397	97591,063	2581,099	PN
2835	93028,974	96924,917	2585,577	PN
3884	91959,201	98106,614	2576,855	PN
1751	92719,522	97360,542	2580,715	PN
3824	91905,938	98115,128	2580,777	CERCA
2788	92790,445	97566,722	2578,803	BL_RIO
1584	92879,402	97511,177	2580,739	PN
2373	92876,036	97273,113	2578,249	LANAGUA
1686	92839,027	97233,512	2580,680	BRIO

PN	ESTE	NORTE	COTA	PD
2665	92937,311	96873,337	2581,292	PN
2909	92949,304	97243,547	2584,989	CERRAM
771	92925,066	97795,357	2580,517	PBCO
557	92794,454	97578,754	2580,147	BORRIO
2814	92923,911	96979,382	2580,148	PN
327	92234,155	97504,018	2577,861	PN
4181	92063,178	97902,760	2577,200	PN
2022	92884,925	97770,865	2581,023	PN
782	92824,510	97879,752	2580,553	PBCO
1940	92698,631	97247,879	2581,840	CERRAM
2003	92689,822	97757,648	2581,216	CERRAM
563	92657,505	97558,960	2577,516	BORRIO
1568	92960,241	97607,373	2581,438	PN
2980	92271,067	97494,922	2577,724	BBCO
3990	91992,379	98060,753	2576,885	PN
310	92231,658	97426,759	2580,108	PN
3986	92002,531	98094,397	2577,763	PN
2538	92889,930	97335,113	2578,314	PBCO
675	92923,177	97659,936	2579,746	BORBCO
1789	92827,862	97276,709	2580,424	PN
591	92744,447	97721,722	2579,892	PN
3576	92002,624	97862,257	2581,829	PN
1784	92822,624	97270,182	2580,313	PN
4139	92040,489	97968,925	2576,889	PN
1303	92569,668	97521,547	2577,877	LAMAGUA
2631	92857,515	96912,189	2582,450	PN
1161	92356,155	97674,323	2580,352	PN
297	92307,001	97404,529	2580,364	PN

PN	ESTE	NORTE	COTA	PD
4353	92235,645	97911,089	2580,505	PN
3660	91895,953	97803,323	2584,882	CERCA
15	92391,693	97471,224	2577,973	LAM
4302	92154,251	97997,801	2580,417	PN
1503	92755,157	97532,089	2579,697	PN
910	92967,479	97794,204	2581,886	PN
3103	92142,909	97686,318	2581,126	CERCA
2479	92852,132	97368,014	2582,880	PN
1734	92666,407	97354,264	2583,457	PN
1229	92665,066	97719,773	2578,553	PN
2214	92971,931	97076,571	2578,205	PN
1102	92338,947	97648,498	2580,400	PN
2245	92908,469	97149,795	2580,786	PN
4083	92069,458	98144,532	2579,632	CERRAM
2264	92818,403	97139,498	2581,002	PN
1928	92768,016	97214,875	2581,044	PN
1484	92727,250	97416,118	2579,921	PN
1811	92825,209	97213,174	2580,425	PBCO
1648	92788,767	97294,575	2579,014	BL_RIO
1811	92852,817	97244,382	2579,053	BL_RIO
1910	92805,195	97186,283	2580,840	PN
1493	92747,923	97464,131	2579,700	PN
3143	92227,349	97779,682	2577,491	PBCO
1133	92453,448	97673,895	2580,278	PN
4256	92121,554	97846,679	2578,939	PN
3318	92182,249	97734,634	2578,890	PN
3364	92119,174	97787,066	2576,161	PN
777	92917,616	97757,150	2578,812	PBCO

PN	ESTE	NORTE	COTA	PD
3265	92277,351	97779,809	2576,966	BBCO
2158	92882,848	96941,429	2581,090	PN
3938	91974,961	98166,023	2577,237	PN
3810	91859,082	98223,570	2583,626	CERCA
862	92881,323	97474,728	2581,093	CERRAM
2357	92812,596	97085,835	2582,294	CERCA
3077	92163,645	97558,036	2582,292	PN
2567	92903,296	97301,083	2579,144	BBCO
416	92600,350	97489,351	2584,384	PN
1968	92676,222	97741,979	2578,622	PN
4138	92072,829	97967,654	2578,659	PN
20	92375,731	97473,285	2577,832	LAM
2079	92762,999	97343,689	2578,979	BL_RIO
2928	92970,560	97052,618	2579,118	PN
2832	92937,842	97003,053	2580,237	PN
1196	92506,178	97707,059	2580,147	PN
725	92721,449	97559,849	2578,990	PBCO
40	92301,011	97501,523	2579,229	HB
2238	92960,189	97114,729	2578,201	PN
3995	91986,968	98042,505	2576,669	PN
3117	92987,435	97161,896	2579,108	BL_RIO
3566	91957,245	97919,818	2579,191	PN
2148	92932,220	96922,315	2580,177	PN
1145	92423,967	97673,587	2580,284	PN
1190	92468,432	97704,476	2581,150	PN
2528	92878,276	97322,375	2578,874	PBCO
516	92574,799	97405,722	2581,908	MALLA
1106	92359,419	97637,025	2578,120	PN

PN	ESTE	NORTE	COTA	PD
3163	92235,743	97830,556	2577,606	PBCO
896	92962,190	97632,053	2581,377	CERCA
2485	92907,961	97309,638	2578,689	PN
1199	92512,527	97704,654	2577,950	LAMAGUA
1498	92750,770	97502,193	2579,536	PN
3942	91947,910	98187,280	2577,344	PN
3375	92146,994	97814,950	2580,177	PN
3659	92833,523	97198,186	2579,080	BL_RIO
2172	92849,082	96965,281	2581,809	PN
2172	92964,167	97018,362	2579,233	BL_RIO
1899	92745,251	97265,249	2582,837	PN
1543	92904,908	97608,489	2579,291	PN
3893	91978,871	98114,042	2577,365	PN
2086	92768,219	97863,157	2580,892	PN
2514	92902,940	97293,501	2578,682	PBCO
1485	92729,646	97425,872	2579,648	PN
1257	92593,044	97632,254	2578,267	PN
2471	92943,050	97376,904	2583,061	PN
1921	92798,080	97146,307	2581,057	PN
2196	92730,174	97497,958	2578,857	BL_RIO
256	92463,763	97387,026	2580,892	CERRAM
794	92857,189	97831,832	2578,401	LAMAGUA
4454	92197,616	97598,603	2577,537	PN
3190	92163,897	97871,884	2578,122	PN
2049	92875,362	97839,462	2579,686	BRIO
3506	91934,305	97990,508	2581,159	PN
3378	92175,589	97816,671	2578,408	PN
530	92599,262	97378,528	2581,547	PN

PN	ESTE	NORTE	COTA	PD
1439	92391,908	97471,505	2577,697	BRIO
2618	92881,802	96845,861	2583,205	PN
1264	92545,943	97611,709	2577,857	LAMAGUA
1170	92407,999	97689,731	2581,685	PN
2222	92994,096	97100,991	2579,693	PN
2047	92857,655	97857,146	2579,396	BRIO
3080	92154,571	97587,498	2581,983	PN
3500	91945,679	98006,231	2578,472	PN
3880	91940,097	98115,989	2580,085	PN
3690	92975,731	97170,495	2579,106	BL_RIO
3533	92080,333	97754,026	2581,209	CERCA
4025	92073,975	98022,706	2580,116	PN
888	92867,731	97511,420	2580,725	CERCA
2033	92934,008	97719,576	2580,200	BBCO
2009	92814,943	97871,253	2580,759	BBCO
4363	92282,053	97832,442	2579,746	PN
2344	92848,151	96961,131	2582,941	CERCA
3204	92142,912	97958,776	2579,263	BBCO
718	92866,142	97834,367	2581,241	PN
2106	92831,922	97183,537	2579,753	BRIO
1166	92355,713	97702,322	2580,531	PN
1636	92759,685	97559,635	2578,804	BL_RIO
2432	92916,996	97354,371	2580,208	PN
4243	92148,588	97845,093	2576,751	BRIO
3249	92265,175	97791,649	2581,375	BBCO
4077	92048,083	98118,453	2577,962	PN
4345	92241,892	97901,114	2580,509	PN
3317	92177,482	97716,329	2578,884	PN

PN	ESTE	NORTE	COTA	PD
349	92299,371	97503,902	2577,970	PN
2306	92897,254	97064,701	2578,477	PN
551	92609,767	97524,138	2578,416	BORRIO
185	92445,805	97429,262	2581,825	PN
3353	92132,348	97772,183	2576,471	PN
3302	92169,465	97803,423	2578,191	PN
3056	92144,722	97499,449	2582,261	PN
3631	91915,139	97902,092	2584,505	PN
1699	92766,247	97301,095	2579,396	BRIO
2665	92908,210	96962,309	2579,274	BL_RIO
3430	92099,593	97754,512	2579,364	PN
1449	92282,255	97476,110	2579,210	PBCO
3535	92099,865	97733,434	2581,051	CERCA
2615	92919,903	96808,490	2580,938	PN
3051	92116,791	97511,518	2582,323	PN
2696	92959,313	96808,925	2579,958	PN
3071	92129,776	97579,997	2581,961	CERCA
301	92357,974	97403,175	2580,651	PN
3028	92178,612	97526,316	2582,227	PN
1561	92960,258	97645,388	2581,676	PN
2651	92928,691	96912,589	2579,492	PN
486	92686,762	97484,462	2583,626	PN
3740	91999,174	97824,211	2582,225	TALTA
2630	92871,444	96917,471	2581,897	PN
3185	92952,300	97170,853	2579,104	BL_RIO
1276	92639,920	97580,809	2579,443	PN
4268	92092,616	97937,447	2577,210	LAMAGUA
1967	92671,805	97725,875	2578,167	PN

PN	ESTE	NORTE	COTA	PD
1306	92562,258	97501,137	2578,478	PN
698	92770,699	97583,793	2579,812	PN
3243	92226,160	97792,698	2576,941	PN
384	92293,873	97464,835	2580,422	PN
2260	92828,827	97177,028	2582,201	PN
807	92758,733	97734,339	2578,503	LAMAGUA
3462	92016,457	97877,182	2580,599	PN
298	92318,587	97403,258	2580,407	PN
3930	91982,283	98176,401	2578,421	PN
4123	92025,755	97946,613	2577,158	PN
4320	92016,256	97984,395	2579,661	DEL9
2915	93064,297	97055,192	2584,100	CERRAM
1790	92827,544	97280,155	2581,531	PN
2353	93022,774	97045,136	2579,202	BL_RIO
49	92339,455	97477,553	2581,448	HB
2197	92896,448	97055,361	2578,439	PN
3598	91883,563	97813,486	2585,272	PN
3999	91980,074	98024,510	2578,057	PN
3954	91954,362	98168,250	2578,037	PN
2720	92955,351	96894,804	2579,722	PN
1093	92264,433	97673,788	2580,373	PN
2407	92960,559	97318,611	2586,532	PN
2959	92245,503	97740,586	2577,565	PN
1586	92868,040	97497,930	2581,144	PN
2899	93006,970	97177,428	2586,256	PN
4094	92083,065	97972,626	2578,422	PN
3007	92189,579	97447,391	2581,585	BBCO
1742	92691,738	97347,645	2583,002	PN

PN	ESTE	NORTE	COTA	PD
882	92822,770	97469,664	2580,468	CERCA
3811	91863,606	98211,601	2583,583	CERCA
1100	92324,578	97656,244	2580,230	PN
2265	92814,734	97133,096	2581,735	PN
1508	92756,535	97459,876	2578,573	LAMAGUA
3418	92140,481	97756,124	2577,724	PN
3846	91917,003	98143,902	2580,686	PN
1687	92846,407	97243,539	2580,465	BRIO
407	92625,265	97508,125	2584,303	PN
2397	92934,639	97224,839	2581,301	PN
2064	92765,763	97781,292	2577,804	LAMAGUA
3354	92155,088	97799,156	2577,179	PN
4179	92071,920	97925,441	2577,232	PN
2959	92200,620	97610,951	2577,540	PN
560	92819,214	97575,096	2578,680	BORRIO
978	92318,251	97789,069	2580,646	PN
2330	92825,043	97025,871	2582,991	CERRAM
342	92321,554	97573,661	2578,811	PN
1378	92402,076	97605,690	2578,021	PN
1200	92526,114	97699,823	2578,012	LAMAGUA
3299	92193,243	97779,562	2578,248	PN
4261	92115,078	97836,470	2577,832	PN
368	92233,003	97472,361	2580,687	PN
2436	92866,474	97358,639	2580,640	PN
2959	92206,164	97657,096	2577,548	PN
3635	91863,688	97888,813	2584,740	PN
3983	92014,004	98090,685	2577,489	PN
1512	92769,478	97535,538	2578,587	LAMAGUA

PN	ESTE	NORTE	COTA	PD
4050	92038,938	98074,380	2576,395	PN
3792	91993,938	98101,167	2576,581	BRIO
2073	92793,925	97884,016	2581,157	PN
2933	92862,531	97588,191	2578,780	BL_RIO
838	92955,324	97830,236	2578,646	SARD
2687	92949,706	96829,644	2580,477	PN
3270	92254,940	97824,065	2577,719	BBCO
3008	92187,067	97650,190	2581,961	PN
2404	92960,239	97281,891	2586,327	PN
3645	91939,545	97922,551	2583,359	PN
2619	92910,541	96823,545	2582,543	PN
3790	91978,219	98069,188	2576,655	BRIO
1852	92785,514	97244,136	2581,085	PN
1249	92624,786	97629,450	2579,328	PN
4306	92153,764	97994,264	2578,286	PN
706	92894,977	97647,838	2579,734	PN
1444	92371,066	97464,226	2582,110	PN
2562	92905,178	97310,481	2578,829	BBCO
2805	92894,481	96971,367	2582,123	PN
3435	92074,650	97787,232	2581,042	PN
3120	92767,367	97570,418	2578,802	BL_RIO
1129	92416,669	97645,051	2579,502	PN
1329	92488,809	97440,524	2578,271	BRIO
2418	92950,595	97297,440	2579,758	PN
1347	92435,628	97506,571	2578,439	PN
2287	92843,590	97071,268	2579,651	PN
450	92717,670	97556,376	2579,882	PN
537	92660,369	97414,703	2581,975	PN

PN	ESTE	NORTE	COTA	PD
2526	92868,864	97325,969	2578,913	PBCO
2603	92929,331	96762,838	2583,109	SARD
3203	92144,670	97894,870	2579,603	BBCO
512	92603,955	97460,552	2582,073	MALLA
1580	92873,674	97526,236	2581,969	PN
2066	92771,161	97806,198	2578,002	LAMAGUA
1141	92460,339	97689,052	2581,513	PN
1054	92282,190	97529,057	2577,426	BRIO
3814	91872,145	98189,401	2583,912	CERCA
3578	91997,658	97847,257	2581,982	PN
3233	92191,093	97837,594	2577,029	PN
317	92216,705	97454,625	2582,223	PN
3590	91941,383	97817,112	2584,337	PN
3820	91889,440	98142,732	2583,822	CERCA
4067	92054,071	98073,711	2577,144	PN
2659	92918,402	96874,683	2582,164	PN
2459	92918,174	97247,848	2579,434	BBARANCO
1359	92418,294	97545,915	2577,846	BRIO
3582	91965,293	97827,155	2583,100	PN
2029	92923,993	97756,523	2580,965	PN
4010	92009,538	98015,425	2576,674	PN
1040	92279,763	97630,048	2579,934	.
2783	92966,789	97008,942	2579,974	PN
337	92314,976	97580,540	2578,347	PN
497	92695,208	97490,812	2583,622	PN
2174	92850,388	96974,138	2581,898	PN
3382	92177,368	97825,579	2577,612	PN
757	92891,769	97660,721	2579,259	PBCO



PN	ESTE	NORTE	COTA	PD
3241	92231,518	97805,884	2576,864	PN
1452	92977,487	97728,400	2578,681	BRIO
2734	92931,785	96932,450	2581,599	PN
1065	92267,384	97539,726	2577,120	PN
4280	92102,810	98000,998	2579,373	PN
1344	92449,514	97478,837	2578,033	BRIO
4233	92110,855	97836,051	2578,343	PN
1383	92349,748	97632,352	2578,302	BRIO
3875	91930,067	98137,047	2580,197	PN
2866	93025,845	97004,364	2584,606	PN
392	92676,183	97541,587	2583,074	PN
2959	92211,474	97714,638	2577,558	PN
378	92267,077	97468,768	2580,225	PN
4335	92210,419	97954,082	2580,554	PN
217	92438,684	97398,491	2580,708	PN
2675	92964,587	96863,848	2580,130	PN
3575	91969,585	97859,629	2582,845	PN
2563	92900,492	97308,367	2578,883	BBCO
1062	92271,748	97527,656	2580,621	PN
2168	92854,292	96952,987	2580,859	PN
1613	92769,246	97412,774	2580,257	PN
2469	92897,667	97251,679	2579,296	PN
408	92681,377	97545,410	2583,336	PN
1726	92675,286	97382,084	2583,451	PN
3184	92176,195	97885,099	2577,646	PN
526	92590,322	97396,381	2581,547	PN
1284	92636,072	97575,367	2578,789	PN
3129	92242,527	97756,334	2579,710	BBCO

PN	ESTE	NORTE	COTA	PD
574	92937,900	97667,468	2578,644	BORRIO
1930	92761,158	97200,542	2581,882	PN
2340	92846,612	96922,826	2584,369	CERCA
2918	93047,784	97021,125	2584,788	CERRAM
2629	93018,409	97081,575	2579,173	BL_RIO
2962	92219,055	97558,261	2578,850	PN
4028	92057,585	98018,658	2576,827	PN
2413	92928,093	97236,676	2580,671	PN
3043	92147,703	97477,928	2581,666	CERCA
163	92550,259	97419,267	2582,465	PN
1770	92823,404	97284,999	2580,465	PN
1421	92781,514	97438,467	2580,703	PN
3715	91957,496	98134,715	2576,868	LAMAGUA
2421	92927,602	97328,519	2578,794	PN
2945	93008,611	97027,393	2578,785	BRIO
4441	93002,128	96928,452	2579,295	BRIO
4461	92221,578	97667,914	2577,551	PN
599	92719,840	97695,565	2579,301	PN
2530	92741,491	97509,426	2578,847	BL_RIO
1873	92699,279	97347,717	2577,418	PBCO
2785	92996,024	96991,284	2580,090	PN
877	92824,821	97450,101	2582,075	PN
2614	92892,266	96820,386	2582,369	PN
324	92214,889	97526,147	2577,830	PN
559	92805,319	97574,758	2578,821	BORRIO
3742	92006,573	97829,659	2582,226	TALTA
3972	92023,257	98125,314	2577,317	PN
594	92734,926	97714,608	2579,876	PN

PN	ESTE	NORTE	COTA	PD
249	92560,214	97356,115	2581,431	CERRAM
1465	92858,300	97578,954	2578,525	BRIO
3000	92198,841	97645,690	2581,900	BBCO
2673	92956,937	96871,407	2580,418	PN
4034	92027,729	98103,210	2576,158	PN
1050	92287,750	97587,524	2579,082	PN
436	92625,757	97526,328	2580,301	PN
2682	92958,148	96839,325	2579,691	PN
2776	92989,015	97002,921	2579,966	PN
3629	91854,193	97878,827	2584,717	PN
993	92269,064	97714,648	2580,340	PN
1351	92446,874	97509,343	2578,985	PN
4057	92057,387	98040,956	2576,966	PN
3111	92128,595	97721,968	2580,513	PN
3584	92770,392	97318,988	2578,997	BL_RIO
4012	92020,864	98003,075	2576,830	PN
345	92310,211	97533,986	2578,399	PN
183	92458,480	97424,981	2582,121	PN
1409	92665,653	97731,310	2578,551	PN
2647	92915,148	96909,654	2580,752	PN
852	92972,622	97609,346	2581,504	CERRAM
1750	92863,757	97603,464	2578,772	BL_RIO
519	92553,050	97407,716	2581,828	PN
673	92893,610	97641,830	2579,509	BORBCO
3778	92075,566	98043,017	2580,451	CERRAM
2283	92817,159	97100,939	2581,262	PN
1074	92252,112	97579,904	2580,328	PN
1350	92448,943	97496,597	2578,397	PN

PN	ESTE	NORTE	COTA	PD
2221	92999,992	97096,841	2580,893	PN
987	92290,293	97752,164	2580,301	PN
1212	92594,001	97645,117	2580,302	PN
4070	92058,200	98102,490	2580,133	PN
4087	92142,198	98006,004	2580,579	DEL8
103	92388,562	97585,175	2578,262	BRIO
3669	91834,203	97907,006	2583,880	CERCA
1335	92539,003	97454,054	2578,291	PN
3261	92255,912	97747,701	2577,567	BBCO
3001	92202,567	97656,062	2580,035	BBCO
4443	92919,759	96947,693	2579,443	BRIO
4433	92656,489	97608,304	2577,520	BORRIO
3067	92132,381	97549,865	2582,342	PN
1163	92335,192	97682,138	2580,117	PN
3664	91864,811	97838,453	2584,905	CERCA
1799	92845,493	97256,944	2581,203	PN
3147	92259,232	97807,601	2580,307	BBCO
2473	92759,019	97328,632	2578,988	BL_RIO
4125	92033,352	97949,630	2577,683	PN
2138	92931,739	96943,452	2579,920	BRIO
2470	92953,087	97380,338	2583,128	PN
3328	92153,658	97739,309	2577,477	PBCO
370	92239,630	97471,486	2581,452	PN
1849	92837,953	97307,532	2579,008	BL_RIO
569	92888,913	97635,756	2578,436	BORRIO
620	92684,449	97629,746	2579,816	PN
1086	92278,823	97658,298	2579,612	PN
3305	92159,283	97816,331	2578,690	PN

PN	ESTE	NORTE	COTA	PD
536	92645,496	97403,790	2581,981	PN
1087	92269,857	97660,536	2579,661	PN
703	92846,421	97614,883	2581,195	PN
299	92333,798	97402,913	2580,364	PN
3228	92159,313	97865,188	2577,134	PBCO
1764	92871,936	97612,611	2578,765	BL_RIO
3833	91923,179	98075,024	2580,712	PN
3798	91996,246	98184,413	2582,617	PTE
1207	92574,972	97652,419	2577,996	PN
752	92924,820	97659,904	2579,053	PBCO
4248	92114,334	97878,889	2577,158	BRIIO
832	92865,444	97896,825	2580,160	CERCA
3721	91943,489	98094,327	2580,853	PN
3142	92240,644	97764,691	2577,491	PBCO
606	92696,570	97683,891	2579,798	PN
255	92476,640	97382,032	2580,996	CERRAM
3499	91957,431	98004,583	2577,543	PN
3656	91954,644	97807,331	2582,912	CERCA
3648	91891,303	97936,366	2583,529	PN
3463	92029,152	97889,746	2579,722	PN
1085	92310,363	97622,237	2577,843	PN
3929	91983,358	98170,105	2577,480	PN
1708	92701,062	97397,932	2578,655	BRIIO
1772	92830,085	97286,671	2580,813	PN
2297	92889,950	97065,230	2578,832	PN
3889	91962,985	98078,894	2577,273	PN
4284	92123,532	98003,298	2579,537	PN
3505	91934,305	97990,508	2581,159	PN

PN	ESTE	NORTE	COTA	PD
550	92749,778	97563,969	2578,550	BORRIO
2218	92990,309	97080,633	2579,441	PN
1280	92645,186	97590,945	2579,955	PN
548	92740,790	97554,290	2578,763	BORRIO
4270	92093,816	97959,106	2577,226	LAMAGUA
945	92606,468	97669,950	2579,883	PARED
1099	92318,935	97648,258	2580,125	PN
2130	92868,191	96975,797	2580,049	BRIIO
931	92660,286	97585,085	2578,868	BBCO
3183	92169,423	97896,468	2577,609	BBCO
4377	92088,130	97918,909	2577,208	PN
1340	92464,381	97483,344	2579,232	LAMAGUA
1411	92672,883	97714,980	2578,148	PN
928	92640,843	97562,323	2579,075	BBCO
3894	91950,218	98048,078	2578,754	PN
3908	91980,149	98121,545	2578,215	PN
3830	91929,309	98050,532	2580,650	PN
2285	92832,354	97066,808	2580,163	PN
1847	92811,638	97209,849	2580,640	PN
480	92691,997	97411,137	2582,342	PN
1164	93024,188	97034,724	2579,212	BL_RIO
273	92229,527	97378,207	2580,263	CERRAM
893	92895,404	97596,743	2580,446	CERCA
2982	92208,711	97527,278	2577,762	BBCO
738	92804,124	97577,085	2579,652	BBCO
2367	92810,546	97307,020	2578,215	LANAGUA
4352	92228,624	97922,568	2580,543	PN
3585	91968,279	97817,255	2582,594	PN

PN	ESTE	NORTE	COTA	PD
2109	92874,381	97156,090	2579,627	BRIO
2847	92845,714	97232,131	2579,062	BL_RIO
1608	92780,909	97448,240	2580,263	PN
3684	91925,652	98021,822	2581,034	CERCA
580	92961,100	97735,966	2578,499	BORRIO
2369	92839,557	97308,726	2578,243	LANAGUA
3038	92175,830	97474,269	2581,688	PN
2900	93007,028	97181,103	2586,435	PN
1396	92475,901	97682,979	2578,104	LAMAGUA
3088	92145,198	97620,570	2581,526	PN
3269	92268,722	97817,972	2577,385	BBCO
951	92510,687	97718,260	2578,934	PARED
1858	92740,524	97328,207	2578,634	PBCO
1534	92856,584	97566,558	2580,045	PN
1462	92883,931	97608,298	2578,998	BRIO
2170	92850,775	96963,638	2580,754	PN
1176	92382,296	97741,971	2581,167	PN
2727	92937,236	96914,112	2579,530	PN
2195	92892,391	97048,498	2578,679	PN
955	92456,944	97740,641	2581,181	PARED
621	92666,333	97635,758	2579,158	PN
3293	92254,679	97850,849	2578,564	PN
1053	92287,435	97543,629	2577,314	BRIO
2434	92885,860	97356,381	2580,213	PN
980	92308,870	97779,644	2580,846	PN
3054	92141,728	97523,073	2582,312	PN
457	92718,096	97501,909	2582,046	PN
430	92639,188	97502,264	2583,344	PN

PN	ESTE	NORTE	COTA	PD
179	92483,641	97415,131	2582,675	PN
286	92222,870	97384,707	2580,242	ZODURA
1876	92668,155	97323,460	2580,424	PBCO
1470	92795,321	97562,473	2578,902	BRIO
657	92736,299	97555,036	2579,938	BORBCO
3722	91950,850	98094,620	2580,004	PN
1619	92789,016	97431,586	2581,371	PN
565	92668,096	97567,295	2577,625	BORRIO
438	92648,247	97544,779	2580,676	PN
4239	92110,840	97849,879	2577,457	PN
2339	92705,149	97442,152	2578,901	BL_RIO
1587	92877,921	97499,701	2581,164	PN
3280	92172,936	97898,738	2577,269	BBCO
2738	93004,967	96905,163	2580,812	BRIO
3606	91860,499	97863,624	2584,813	PN
2127	92899,521	97014,359	2580,094	BRIO
830	92889,050	97872,305	2580,646	CERCA
4435	92837,609	97882,626	2578,096	BRIO
4337	92217,546	97942,009	2580,516	PN
1023	92336,709	97699,851	2580,442	PN
1912	92816,906	97174,453	2580,762	PN
3323	92164,600	97725,212	2577,489	PN
1565	92980,302	97635,794	2581,941	PN
333	92296,166	97515,126	2577,407	PN
1142	92445,426	97691,134	2581,633	PN
1695	92812,333	97294,931	2578,732	BRIO
1401	92587,338	97581,856	2579,152	PN
3272	92234,388	97838,689	2577,290	BBCO

PN	ESTE	NORTE	COTA	PD
773	92927,300	97743,467	2578,432	PBCO
279	92250,920	97396,124	2580,286	ZODURA
1643	92863,021	97369,889	2583,073	PN
4242	92143,744	97839,335	2576,781	BRIO
3935	91992,081	98180,490	2577,437	PALETA
357	92316,674	97479,848	2578,450	PN
4282	92112,873	98001,651	2579,248	PN
2320	92803,679	97564,843	2578,800	BL_RIO
4294	92094,051	98010,305	2580,491	CERRAM
4294	92845,863	97569,465	2578,794	BL_RIO
975	92337,911	97811,135	2580,371	PN
1266	92524,608	97615,367	2577,889	LAMAGUA
4262	92114,045	97840,417	2577,424	PN
2690	92954,212	96778,095	2580,453	PN
4434	92661,325	97599,906	2577,638	BORRIO
2258	92837,539	97156,460	2580,298	PN
468	92689,448	97454,744	2583,686	PN
3447	92072,516	97815,951	2578,087	PN
4333	92203,407	97963,739	2580,567	PN
3953	91955,076	98165,419	2577,432	PN
482	92685,293	97395,986	2582,486	PN
2218	92936,547	97019,183	2579,232	BL_RIO
4192	92070,362	97895,064	2578,211	PN
2483	92894,122	97320,334	2579,884	PN
3528	92021,625	97808,985	2581,343	CERCA
579	92964,807	97719,765	2578,364	BORRIO
2566	92898,022	97298,971	2578,650	BBCO
814	92696,847	97673,960	2578,543	LAMAGUA

PN	ESTE	NORTE	COTA	PD
4387	92986,086	96782,321	2579,338	BRIO
1957	92817,006	97121,493	2582,293	CERRAM
2547	92839,642	97331,709	2578,974	PBCO
246	92608,681	97343,202	2581,597	CERRAM
3609	91882,213	97875,390	2584,731	PN
1747	92761,025	97307,287	2578,900	PN
3155	92244,063	97819,995	2579,070	BBCO
4231	92112,029	97833,577	2577,824	PN
1892	92735,599	97258,800	2582,445	PN
1447	92300,415	97469,435	2581,493	PN
1670	92919,323	96950,054	2579,274	BL_RIO
1150	92400,269	97669,583	2580,838	PN
2515	92913,640	97295,213	2578,985	PBCO
1834	92776,881	97247,719	2585,461	PN
3901	91999,421	98148,165	2576,994	PN
701	92809,301	97593,424	2580,692	PN
4148	92081,483	97985,676	2579,166	PN
2041	92867,957	97835,702	2581,015	PN
3095	92729,153	97470,829	2578,875	BL_RIO
3909	91972,128	98123,395	2578,671	PN
1372	92415,233	97589,099	2578,200	PN
958	92410,364	97777,153	2580,862	PARED
2536	92901,733	97334,976	2578,732	PBCO
1862	92741,680	97296,497	2578,608	PBCO
3441	92073,108	97802,558	2578,506	PN
2652	92976,859	97023,861	2579,234	BL_RIO
3877	91938,354	98126,859	2579,634	PN
761	92955,658	97705,718	2579,203	PBCO

PN	ESTE	NORTE	COTA	PD
3593	91955,260	97836,177	2584,140	PN
313	92209,026	97428,513	2579,949	PN
733	92774,819	97601,499	2579,447	PBCO
2390	92912,991	97360,225	2580,837	CERCA
3827	91915,634	98078,431	2581,326	CERCA
3738	91937,284	98019,431	2580,490	PN
687	92889,877	97825,936	2579,370	BORBCO
3360	92135,004	97791,041	2576,821	PN
1525	92809,808	97554,031	2579,319	PN
4340	92190,474	97917,331	2577,344	BRIO
1033	92259,454	97663,193	2580,254	PN
3052	92131,870	97526,205	2582,127	PN
453	92723,920	97535,681	2581,216	PN
2133	92886,859	96944,275	2580,118	BRIO
3514	91954,146	97875,867	2583,813	PN
1694	92825,081	97296,591	2578,653	BRIO
837	92950,240	97839,995	2580,451	SARD
4019	92054,484	98004,625	2577,090	PN
2807	92901,346	96973,080	2581,804	PN
544	92659,431	97362,958	2583,017	PN
1476	92745,226	97515,136	2579,109	BRIO
3070	92126,455	97565,420	2581,923	CERCA
1874	92678,213	97333,136	2581,135	PBCO
3169	92212,656	97850,061	2577,407	PBCO
4104	92046,821	97991,541	2578,051	PN
894	92910,885	97605,034	2580,510	CERCA
2282	92821,576	97080,169	2580,360	PN
1500	92759,398	97517,481	2579,155	PN

PN	ESTE	NORTE	COTA	PD
899	93016,995	97663,797	2582,037	CERCA
4349	92222,038	97915,098	2579,308	PN
3565	91968,760	97910,752	2579,819	PN
2249	92888,480	97139,243	2579,207	PN
1642	92837,451	97374,184	2583,591	PN
367	92229,922	97461,433	2580,013	PN
2257	92849,057	97149,709	2579,748	PN
2794	92926,853	97008,160	2579,945	PN
2808	92891,511	96972,000	2580,305	PN
2759	92966,852	96947,656	2579,461	BRIO
394	92662,633	97537,699	2584,237	PN
88	92387,921	97563,117	2579,884	HB
4325	92197,906	97981,001	2580,320	CERRAM
2207	92964,747	97025,062	2579,233	BL_RIO
3749	91976,911	97991,680	2576,656	BRIO
653	92628,916	97552,157	2577,837	LAMAGUA
1724	92680,964	97380,577	2583,039	PN
3971	92017,534	98121,739	2576,687	PN
640	92696,155	97593,205	2578,192	PN
2307	92882,154	97089,856	2578,436	PN
3651	91855,480	97910,771	2584,677	PN
4260	92116,088	97837,269	2577,427	PN
953	92475,623	97732,737	2580,313	PARED
772	92910,991	97798,561	2580,110	PBCO
2140	92973,301	96925,734	2579,295	BRIO
415	92677,502	97521,654	2583,743	PN
3084	92131,571	97587,385	2581,893	CERCA
2790	92946,091	97000,346	2579,634	PN



PN	ESTE	NORTE	COTA	PD
3045	92118,339	97496,713	2581,811	CERCA
3060	92158,657	97531,765	2582,073	PN
271	92261,643	97382,219	2580,106	CERRAM
1515	92762,105	97543,686	2579,688	PN
716	92896,855	97806,142	2580,816	PN
1353	92449,732	97510,621	2578,014	PN
2671	92956,489	96881,363	2581,462	PN
968	92297,333	97813,745	2580,380	PN
797	92928,985	97727,584	2578,319	LAMAGUA
835	92824,881	97923,162	2581,092	CERRAM
720	92845,258	97856,350	2581,242	PN
3485	91990,516	97956,751	2576,631	PN
2936	92968,708	97130,626	2578,155	PN
3531	92058,495	97777,155	2581,303	CERCA
3275	92213,946	97855,735	2577,038	BBCO
1878	92657,291	97311,225	2582,228	PN
4355	92245,941	97891,974	2580,436	PN
867	92841,644	97409,062	2581,419	CERRAM
2855	93039,098	96989,611	2584,415	PN
962	92339,665	97845,013	2580,394	PARED
2593	92903,041	96780,991	2583,171	CERCA
1258	92585,116	97634,226	2578,681	PN
4099	92055,739	97985,237	2577,462	PN
1996	92706,386	97828,277	2580,985	CERRAM
3709	91968,054	98124,708	2577,002	PN
892	92878,848	97587,786	2580,581	CERCA
2505	92917,380	97351,985	2578,604	PBCO
1538	92876,016	97588,613	2580,380	PN

PN	ESTE	NORTE	COTA	PD
1192	92490,143	97710,771	2580,769	PN
2464	92928,592	97210,918	2579,208	PN
1382	92369,349	97624,911	2578,050	BRIO
1976	92708,894	97753,374	2578,420	PN
3209	92129,182	97953,281	2577,042	PBCO
2253	92864,801	97150,936	2579,766	PN
1098	92311,279	97660,656	2579,617	PN
1551	92971,193	97663,961	2582,590	PN
236	92601,598	97356,497	2581,798	PN
3018	92174,919	97562,704	2582,072	PN
2604	92907,039	96757,418	2583,784	SARD
2763	92926,344	96963,979	2579,443	BRIO
2141	92980,981	96922,202	2579,715	BRIO
3640	91891,650	97900,163	2584,538	PN
72	92346,667	97596,137	2581,693	HB
1955	92793,553	97143,156	2583,372	CERRAM
2351	92833,555	97029,617	2582,762	CERCA
2726	92940,111	96915,739	2580,119	PN
1606	92792,147	97464,617	2580,183	PN
1665	92815,363	97339,035	2580,302	PN
2277	92838,930	97112,677	2579,077	PN
3920	91985,986	98163,857	2580,374	PN
4301	92148,582	98000,785	2580,524	PN
4111	92861,088	97292,401	2579,016	BL_RIO
2831	92938,677	96998,804	2579,559	PN
2831	92937,207	97652,238	2578,728	BL_RIO
3057	92163,730	97512,796	2582,043	PN
2678	92934,364	96814,874	2580,155	PN

PN	ESTE	NORTE	COTA	PD
2868	93007,275	97153,983	2579,118	BL_RIO
2280	92846,624	97092,230	2578,991	PN
4166	92046,810	97909,785	2576,682	BRIO
3910	91983,648	98129,917	2579,308	PN
2391	92920,224	97361,869	2580,634	CERCA
2815	92968,190	96953,084	2580,580	PN
105	92373,184	97600,036	2578,269	BRIO
2371	92860,837	97305,353	2578,251	LANAGUA
135	92577,418	97455,313	2582,773	BBCO
221	92474,077	97391,875	2581,084	PN
3217	92113,019	97945,205	2580,490	PN
3611	91895,789	97883,044	2584,736	PN
1509	92757,059	97471,658	2578,634	LAMAGUA
3543	91912,774	97946,977	2583,326	PN
322	92212,563	97517,147	2579,304	PN
3393	92101,492	97919,670	2577,148	BRIO
2510	92945,014	97310,864	2578,419	PBCO
2353	92830,777	97046,947	2582,160	CERCA
189	92417,649	97440,549	2581,507	PN
2125	92935,263	97030,091	2579,967	BRIO
1630	92791,213	97382,231	2581,613	PN
1938	92716,927	97227,909	2581,866	CERRAM
133	92575,672	97446,991	2582,756	BBCO
4275	92089,025	97989,823	2578,301	PN
522	92571,294	97397,359	2581,845	PN
4016	92045,654	98003,302	2577,805	PN
4013	92031,173	98000,894	2576,926	PN
443	92682,467	97546,489	2583,411	PN

PN	ESTE	NORTE	COTA	PD
1911	92811,358	97193,995	2582,631	PN
3774	92067,021	98084,192	2580,363	CERRAM
2988	92200,528	97527,891	2578,035	PBCO
2911	92998,479	97187,759	2585,085	CERRAM
3587	91988,798	97813,209	2583,319	PN
1857	92761,838	97277,974	2578,315	PBCO
2194	92908,794	97036,292	2579,268	PN
2692	92944,202	96784,120	2580,214	PN
235	92601,598	97356,497	2581,798	PN
3438	92098,299	97776,557	2578,836	PN
1599	92830,958	97471,549	2580,081	PN
3386	92150,066	97824,487	2577,313	BRIO
1769	92757,554	97306,330	2579,699	PN
3291	92235,090	97870,675	2578,160	PN
1144	92438,326	97690,230	2581,518	PN
1585	92878,218	97503,221	2580,804	PN
3933	91992,936	98182,195	2581,264	ALPTE
4456	92247,138	97731,735	2577,565	PN
2412	92947,110	97362,522	2582,994	PN
1900	92754,968	97248,937	2582,270	PN
1366	92428,846	97574,552	2577,957	LAMAGUA
1746	92705,292	97371,951	2581,175	PN
3610	91880,870	97858,420	2584,957	PN
2039	92831,833	97878,409	2581,028	PBCO
2065	92763,680	97799,382	2578,093	LAMAGUA
2583	92899,529	97210,999	2579,830	PN
4339	92226,078	97927,469	2580,532	PN
515	92598,322	97424,334	2582,000	MALLA

PN	ESTE	NORTE	COTA	PD
3668	91841,541	97891,142	2584,078	CERCA
4110	92047,089	98000,039	2578,184	PN
3655	91955,127	97807,286	2582,867	CERCA
739	92805,949	97607,761	2578,566	PBCO
2291	92867,993	97085,668	2578,540	PN
277	92226,840	97405,030	2580,273	ZODURA
4189	92080,360	97913,776	2578,213	PN
1275	92636,014	97584,356	2578,038	PN
966	92288,829	97828,906	2580,421	DEL2
3522	91998,895	97823,480	2582,224	PN
2625	92874,591	96875,254	2583,304	PN
3888	91966,735	98094,776	2577,026	PN
1544	92936,035	97621,683	2580,480	PN
2716	92846,972	97585,171	2578,788	BL_RIO
3446	92069,234	97816,618	2579,252	PN
2543	92867,150	97332,411	2578,586	PBCO
723	92820,124	97875,650	2580,959	PN
1669	92763,337	97400,070	2578,535	LAMAGUA
1204	92554,011	97686,492	2580,221	PN
504	92660,420	97438,058	2582,256	MALLA
1707	92705,255	97387,102	2578,665	BRIO
4311	92179,041	97973,634	2577,803	PN
4197	92079,266	97886,565	2577,407	PN
1950	92748,026	97193,800	2582,695	CERRAM
4164	92038,388	97922,573	2576,733	BRIO
212	92396,860	97419,058	2580,703	PN
3370	92135,078	97804,495	2579,373	PN
1529	92836,387	97554,700	2579,334	PN

PN	ESTE	NORTE	COTA	PD
33	92326,636	97550,543	2577,727	LAM
1130	92436,689	97654,491	2580,305	PN
3403	92016,000	97930,735	2577,044	BRIO
1837	92749,340	97315,282	2577,966	PBCO
1434	92794,569	97577,034	2578,003	LAMAGUA
3822	91892,461	98138,738	2582,822	CERCA
1647	92813,849	97366,293	2583,802	PN
3981	92017,972	98101,362	2577,963	PN
501	92696,250	97466,801	2582,353	MALLA
3676	91878,343	97939,755	2582,643	CERCA
1797	92849,373	97282,705	2582,170	PN
4009	92005,347	98002,572	2576,793	PN
4040	92034,609	98127,027	2575,746	PN
3306	92195,474	97715,577	2579,329	PN
1945	92639,407	97302,926	2581,891	CERRAM
859	92888,017	97521,227	2580,885	CERRAM
219	92456,318	97396,500	2580,771	PN
2944	93007,633	97104,924	2580,146	BRIO
1582	92888,649	97167,945	2579,099	BL_RIO
4178	92067,353	97924,205	2577,084	PN
4178	92763,108	97316,861	2578,997	BL_RIO
539	92657,041	97382,436	2581,984	PN
3962	92032,031	98152,770	2576,731	PN
3633	91898,525	97905,435	2584,444	PN
3239	92190,182	97806,999	2577,417	PN
3788	91976,126	98060,144	2576,778	BRIO
3681	91909,824	97981,372	2582,051	CERCA
883	92841,095	97462,429	2580,556	CERCA

PN	ESTE	NORTE	COTA	PD
1632	92813,572	97399,320	2583,933	PN
1313	92550,749	97481,834	2579,664	PN
1714	92716,863	97468,850	2578,698	BRIO
2770	92882,424	96972,419	2579,544	BRIO
2182	92870,796	97008,140	2580,599	PN
2476	92860,631	97163,222	2579,097	BL_RIO
845	93005,162	97722,643	2581,176	SARD
122	92485,404	97418,831	2582,497	BBCO
4165	92053,445	97928,360	2577,722	BRIO
3949	91937,475	98168,828	2579,203	PN
2111	92929,279	97156,017	2579,580	BRIO
139	92549,534	97428,539	2579,906	PBCO
2878	93037,370	97030,352	2585,568	PN
3786	91967,803	98038,260	2576,853	BRIO
188	92420,337	97445,213	2584,158	PN
2582	92891,022	97222,342	2579,420	PN
1068	92258,972	97537,190	2577,213	PN
919	92963,176	97786,008	2582,179	PN
1084	92287,773	97642,423	2579,775	PN
197	92374,116	97453,695	2581,445	PN
4091	92107,841	97992,428	2578,611	BRIO
451	92721,062	97536,863	2581,172	PN
2271	92850,564	97176,061	2579,095	BL_RIO
2450	92861,104	97305,980	2579,634	BBARANCO
2450	92837,179	97298,576	2579,008	BL_RIO
2856	93000,424	96972,008	2585,535	PN
3022	92177,164	97550,214	2582,384	PN
2571	92914,048	97298,680	2579,052	BBCO

PN	ESTE	NORTE	COTA	PD
562	92831,804	97577,425	2578,489	BORRIO
2880	93050,532	97051,535	2584,314	PN
440	92661,642	97553,027	2580,514	PN
905	92984,105	97761,145	2582,253	PN
3688	91939,497	98031,797	2580,022	PN
46	92312,604	97530,933	2579,305	HB
914	92950,920	97828,898	2581,448	PN
3460	92035,317	97879,680	2578,833	PN
686	92901,541	97810,567	2579,842	BORBCO
2667	92933,584	96840,486	2580,944	PN
1216	92606,911	97656,617	2579,085	PN
1424	92773,691	97404,344	2580,927	PN
2924	93018,666	96791,155	2583,869	CERRAM
3787	91973,499	98048,726	2577,247	BRIO
3922	91983,639	98161,738	2580,209	PN
3855	92889,368	97631,345	2578,751	BL_RIO
3267	92278,144	97802,205	2577,166	BBCO
3453	92055,204	97842,074	2579,674	PN
4309	92167,044	97984,453	2578,005	PN
669	92845,958	97606,095	2580,936	BORBCO
239	92634,728	97342,333	2582,354	PN
3489	91975,533	97968,451	2578,647	PN
4259	92118,697	97842,545	2577,714	PN
1103	92340,233	97652,625	2580,321	PN
4432	92650,216	97618,867	2577,696	BORRIO
3150	92238,727	97815,617	2577,066	PBCO
1225	92651,354	97700,580	2578,179	PN
26	92354,160	97477,025	2577,814	LAM

PN	ESTE	NORTE	COTA	PD
2178	92856,441	96996,394	2581,007	PN
666	92823,288	97582,470	2580,982	BORBCO
2718	92961,030	96885,991	2580,035	PN
713	92932,064	97775,655	2581,061	PN
3474	91996,530	97896,510	2579,431	PN
2094	92739,353	97497,227	2578,857	BL_RIO
4305	92186,995	97979,930	2580,553	PN
4305	92837,396	97578,976	2578,794	BL_RIO
1682	92857,843	97504,274	2578,420	LAMAGUA
1397	92488,598	97693,237	2577,997	LAMAGUA
3581	91994,632	97832,162	2582,188	PN
3369	92144,155	97817,777	2577,472	PN
3303	92160,043	97805,487	2578,446	PN
3793	92000,223	98110,777	2576,642	BRIO
834	92841,093	97915,399	2580,553	CERCA
1745	92698,548	97361,237	2581,532	PN
1290	92938,378	97170,986	2579,103	BL_RIO
248	92579,596	97353,262	2581,425	CERRAM
1111	92420,706	97636,508	2580,522	PN
1989	92714,167	97808,240	2578,462	BRIO
4310	92174,330	97977,784	2577,987	PN
1691	92864,194	97274,857	2579,090	BRIO
3001	92949,489	97675,578	2578,716	BL_RIO
1986	92721,066	97778,916	2578,130	BRIO
1986	92744,833	97366,822	2578,964	BL_RIO
851	92984,990	97621,867	2581,615	CERRAM
503	92663,408	97508,011	2582,340	MALLA
1672	92767,804	97440,388	2578,474	LAMAGUA

PN	ESTE	NORTE	COTA	PD
34	92321,351	97535,587	2577,825	LAM
4322	92200,751	97974,222	2580,763	DEL9
2643	92915,713	96920,556	2581,451	PN
4459	92221,727	97713,014	2577,558	PN
4196	92073,926	97929,483	2577,748	PN
4328	92721,920	97460,686	2578,884	BL_RIO
860	92885,646	97505,221	2580,849	CERRAM
1305	92560,774	97503,289	2579,052	PN
944	92623,657	97703,874	2581,136	PARED
1494	92754,694	97480,627	2579,079	PN
2286	92831,496	97044,317	2581,757	PN
1377	92411,641	97606,631	2578,175	PN
2698	92966,462	96806,977	2580,043	PN
2590	92887,340	96820,465	2583,796	CERCA
3321	92175,989	97725,994	2577,358	PN
747	92870,372	97629,317	2579,032	PBCO
2005	92829,970	97915,598	2580,091	PN
1357	92434,009	97534,082	2578,211	PN
2334	92841,625	96952,520	2583,761	CERRAM
3020	92194,776	97493,650	2581,017	BBCO
4161	92037,306	97937,227	2577,074	PN
4160	92059,052	97934,922	2576,829	PN
4092	92098,300	97984,365	2578,312	BRIO
3851	91901,006	98179,933	2580,654	PN
3972	92745,808	97557,415	2578,811	BL_RIO
3891	91973,058	98101,802	2577,381	PN
991	92255,292	97720,475	2576,993	PN
3639	91890,384	97916,134	2584,500	PN

PN	ESTE	NORTE	COTA	PD
3987	91995,219	98068,800	2577,971	PN
2714	92970,306	96874,115	2579,870	PN
308	92262,130	97423,503	2579,959	PN
3604	91866,027	97849,714	2584,875	PN
1232	92654,311	97736,089	2581,035	PN
601	92710,186	97690,402	2579,950	PN
2546	92848,404	97330,286	2578,771	PBCO
1574	92882,153	96953,407	2579,273	BL_RIO
4191	92071,592	97896,051	2578,635	PN
3422	92123,428	97735,170	2579,139	PN
4466	92189,635	97599,343	2577,537	PN
3697	91967,916	98157,986	2577,675	PN
933	92658,095	97599,301	2578,824	BBCO
3612	91895,665	97859,113	2585,078	PN
1652	92790,303	97392,424	2583,795	PN
3282	92169,869	97919,247	2577,262	BBCO
2652	92906,957	96871,584	2582,821	PN
491	92685,073	97531,855	2583,995	PN
947	92582,683	97663,259	2579,392	PARED
1670	92765,413	97414,585	2578,539	LAMAGUA
990	92255,813	97733,429	2576,922	BRIO
1151	92389,152	97675,727	2581,292	PN
1813	92807,763	97267,810	2577,347	PBCO
2481	92835,842	97365,653	2583,259	PN
1902	92758,263	97239,036	2582,093	PN
1297	92579,781	97538,129	2577,855	LAMAGUA
4228	92107,489	97829,527	2579,176	PN
744	92834,445	97613,356	2579,138	PBCO

PN	ESTE	NORTE	COTA	PD
2959	92231,950	97733,437	2577,563	PN
83	92419,966	97497,603	2579,084	HB
2322	92857,569	97041,773	2579,497	PN
1203	92725,652	97383,078	2578,952	BL_RIO
4184	92068,760	97908,435	2577,900	PN
663	92802,394	97581,051	2580,723	BORBCO
3385	92101,198	97921,312	2577,208	PN
1663	92805,630	97333,650	2580,378	CERCA
2524	92876,363	97168,570	2579,098	BL_RIO
2740	93001,632	96890,137	2580,622	BRIO
4171	92044,864	97920,849	2577,474	PN
1385	92315,834	97626,190	2577,968	BRIO
3448	92079,656	97802,683	2578,511	PN
3322	92177,514	97728,087	2579,026	PN
244	92627,052	97331,233	2582,362	CERRAM
2355	92818,002	97073,936	2582,014	CERCA
1300	92910,264	97645,609	2578,740	BL_RIO
3685	91928,334	98028,731	2581,195	CERCA
3943	91937,008	98187,939	2578,030	PN
3572	91998,863	97893,712	2579,655	PN
3338	92140,469	97737,765	2578,155	PN
1137	92443,679	97672,591	2579,906	PN
3717	91964,654	98120,176	2577,085	LAMAGUA
2015	92851,059	97848,069	2581,292	BBCO
3118	92173,377	97712,404	2581,924	PN
106	92467,446	97439,249	2578,194	BRIO
678	92947,149	97686,469	2580,845	BORBCO
2680	92957,018	96840,710	2580,741	PN



PN	ESTE	NORTE	COTA	PD
3108	92111,841	97738,457	2581,082	PN
1282	92632,748	97578,692	2578,224	PN
138	92557,187	97436,187	2579,398	PBCO
4254	92120,473	97849,108	2577,866	PN
2358	92812,122	97086,963	2581,672	CERCA
592	92745,343	97724,798	2578,801	PN
1673	92777,173	97450,199	2578,514	LAMAGUA
2998	92190,921	97623,354	2581,368	BBCO
3965	92026,404	98140,602	2576,563	PN
4336	92204,368	97947,929	2577,593	PN
1251	92630,735	97635,773	2578,682	PN
843	92993,042	97750,562	2581,066	SARD
2575	92936,625	97282,394	2580,534	PN
1384	92332,640	97633,394	2578,365	BRIO
1526	92810,019	97556,073	2578,656	PN
3412	92109,409	97786,803	2576,465	PN
172	92432,289	97460,992	2580,883	PN
1773	92766,514	97293,226	2580,387	PN
1365	92434,361	97562,340	2577,972	LAMAGUA
152	92589,113	97455,553	2582,978	PN
3653	91985,698	97809,338	2582,466	CERCA
3765	92095,529	97816,170	2576,791	BRIO
1702	92753,270	97338,184	2578,630	BRIO
1948	92618,380	97318,144	2581,789	CERRAM
3744	91922,182	97940,088	2583,489	CHKDEL5
3925	91983,136	98153,242	2580,062	PN
3236	92184,096	97821,522	2577,367	PN
2818	92936,161	96973,410	2581,147	PN

PN	ESTE	NORTE	COTA	PD
809	92754,147	97717,587	2578,487	LAMAGUA
775	92882,917	97825,350	2580,094	PBCO
1952	92771,956	97167,403	2583,202	CERRAM
1278	92642,381	97578,680	2578,677	PN
4027	92020,742	98078,340	2577,373	PN
2321	92870,482	97047,229	2578,684	PN
240	92626,293	97363,067	2582,602	PN
1221	92626,265	97698,584	2581,183	PN
1210	92582,247	97659,935	2580,294	PN
12	92384,345	97549,403	2577,781	LAM
1441	92367,195	97474,075	2577,701	BRIO
181	92469,749	97419,878	2581,792	PN
811	92736,513	97535,133	2578,828	BL_RIO
2688	92961,181	96783,307	2580,418	PN
1455	92973,846	97685,281	2578,781	BRIO
1638	92814,020	97385,035	2584,210	PN
3632	91849,095	97890,047	2584,595	PN
1704	92728,150	97364,738	2578,427	BRIO
712	92938,771	97760,954	2580,525	PN
1147	92411,926	97664,889	2579,585	PN
1160	92373,522	97655,301	2579,202	PN
1927	92768,295	97177,247	2582,055	PN
3411	92105,112	97790,474	2577,409	PN
177	92493,614	97409,414	2581,902	PN
3573	91984,987	97880,155	2582,024	PN
1230	92658,241	97727,139	2578,952	PN
2713	92974,354	96865,914	2580,213	PN
2037	92900,811	97805,969	2580,514	PN

PN	ESTE	NORTE	COTA	PD
2958	92233,720	97620,770	2578,374	PN
233	92582,363	97363,662	2581,538	PN
2196	92911,091	97033,399	2580,365	PN
1271	92596,104	97607,941	2578,326	PN
3895	91950,179	98048,488	2579,347	PN
1047	92303,815	97626,674	2579,038	.
927	92620,477	97553,251	2579,008	BBCO
2959	92213,371	97696,460	2577,555	PN
2088	92818,896	97911,565	2578,112	BRIO
3101	92149,089	97665,624	2581,221	CERCA
3674	91860,882	97926,142	2583,338	CERCA
2239	92917,683	97143,107	2580,942	PN
3914	91987,316	98143,187	2581,074	PN
3090	92154,369	97619,393	2581,462	PN
1367	92436,895	97548,855	2578,173	LAMAGUA
714	92922,653	97789,830	2581,138	PN
1567	92968,394	97615,761	2581,810	PN
2531	92905,758	97310,973	2578,828	PBCO
210	92383,325	97423,396	2580,816	PN
4292	92118,088	98009,736	2580,524	CERRAM
2251	92887,972	96963,117	2579,273	BL_RIO
4439	92878,828	97840,961	2578,685	BRIO
4169	92050,622	97922,554	2576,984	PN
441	92679,609	97550,284	2584,500	PN
3916	91990,261	98151,631	2580,654	PN
876	92787,334	97457,654	2580,178	PN
2020	92878,933	97761,043	2581,917	BBCO
2820	92951,651	96981,598	2580,636	PN

PN	ESTE	NORTE	COTA	PD
4236	92112,590	97828,878	2577,286	PN
2764	92917,427	96965,866	2579,564	BRIO
3456	92050,131	97864,080	2577,465	PN
4431	92640,989	97627,637	2577,492	BORRIO
3087	92143,825	97635,726	2581,147	CERCA
2522	92892,961	97300,844	2579,029	PBCO
2780	92967,145	96996,710	2579,730	PN
1733	92730,492	97356,780	2579,419	PN
925	92575,154	97509,610	2579,134	BBCO
1286	92620,428	97568,172	2579,564	PN
3520	91986,906	97824,948	2582,417	PN
4296	92199,825	98039,435	2580,786	DEL9
4425	92408,021	97544,913	2577,846	BRIO
1863	92723,171	97336,940	2577,473	PBCO
492	92692,439	97540,645	2583,805	PN
2441	92820,530	97337,523	2579,935	PN
4154	92071,736	97951,966	2577,788	PN
1285	92618,894	97570,862	2578,419	PN
2019	92874,146	97764,181	2581,857	BBCO
2799	92905,537	96989,682	2580,045	PN
4453	92971,670	97756,082	2578,726	BRIO
3626	92987,821	97170,465	2579,108	BL_RIO
303	92327,142	97416,700	2580,499	PN
1291	92606,329	97556,698	2579,441	PN
2787	92949,521	97012,841	2580,145	PN
2693	92952,089	96824,834	2580,239	PN
1491	92738,379	97468,271	2578,910	PN
462	92707,418	97493,290	2582,599	PN

PN	ESTE	NORTE	COTA	PD
23	92361,771	97474,321	2577,845	LAM
1323	92470,659	97475,627	2578,787	PN
2999	92199,246	97460,128	2577,882	PBCO
3840	91925,930	98109,938	2580,352	PN
2055	92878,610	97858,882	2578,468	BRIO
2477	92880,093	97368,549	2583,414	PN
1923	92789,938	97190,265	2580,397	PN
789	92886,226	97804,757	2578,258	LAMAGUA
1387	92304,529	97622,866	2578,494	PN
2310	92874,115	97102,536	2578,232	PN
4347	92229,185	97894,251	2577,562	PN
3314	92196,804	97706,470	2578,699	PN
1425	92772,262	97389,156	2581,116	PN
126	92513,614	97411,471	2582,719	BBCO
2128	92886,280	97005,554	2580,470	BRIO
4119	92014,125	97962,304	2576,817	PN
2534	92905,659	97328,162	2578,594	PBCO
3278	92186,260	97879,667	2577,596	BBCO
2572	92909,926	97296,345	2578,845	BBCO
280	92253,416	97392,952	2580,257	ZODURA
1440	92382,757	97471,818	2577,953	BRIO
1959	92716,139	97775,947	2580,674	PN
44	92311,443	97522,741	2579,169	HB
992	92263,698	97729,618	2577,335	PN
677	92934,469	97670,355	2580,342	BORBCO
2666	92946,588	96884,412	2580,964	PN
3273	92225,389	97846,122	2577,067	BBCO
959	92387,693	97798,761	2580,834	PARED

PN	ESTE	NORTE	COTA	PD
848	93021,647	97658,357	2581,613	SARD
247	92595,233	97348,146	2581,524	CERRAM
4331	92223,161	97960,241	2580,302	CERRAM
4220	92102,618	97832,036	2578,558	PN
3390	92153,958	97864,069	2577,037	BRIO
2743	92989,295	96844,653	2580,676	BRIO
774	92895,007	97816,534	2579,592	PBCO
209	92375,101	97411,520	2580,678	PN
1472	92765,344	97560,533	2578,518	BRIO
4458	92227,605	97720,192	2577,560	PN
464	92701,278	97476,236	2582,824	PN
1406	92529,814	97616,272	2578,654	PN
2026	92907,017	97771,964	2582,077	PN
1038	92265,253	97632,877	2579,420	.
1532	92865,665	97296,718	2579,016	BL_RIO
3758	92118,341	97824,357	2576,753	BRIO
4072	92048,351	98096,437	2577,150	PN
1897	92746,481	97267,426	2583,901	PN
4419	92311,153	97572,882	2577,483	BRIO
3227	92147,388	97881,725	2576,941	PBCO
2281	92834,514	97086,500	2579,801	PN
1026	92314,057	97686,954	2580,149	PN
1244	92646,582	97605,347	2578,589	PN
2530	92901,603	97307,450	2578,860	PBCO
2343	92850,299	96951,049	2582,775	CERCA
1076	92250,849	97590,956	2580,347	PN
2012	92918,703	97790,622	2581,114	PN
1544	92898,705	96962,103	2579,277	BL_RIO

PN	ESTE	NORTE	COTA	PD
884	92848,149	97460,458	2580,521	CERCA
4082	92035,617	98135,690	2576,704	PN
2483	92860,101	97241,805	2579,053	BL_RIO
1404	92610,164	97662,675	2579,287	PN
3408	92081,466	97809,673	2577,027	BRIO
4215	92101,867	97855,669	2577,560	PN
3563	91981,305	97943,307	2576,798	PN
3352	92153,809	97784,221	2577,276	PN
1698	92776,535	97293,377	2579,149	BRIO
109	92343,827	97613,474	2577,946	BRIO
1946	92620,596	97315,047	2582,043	CERRAM
2414	92927,222	97249,268	2581,444	PN
1981	92713,446	97760,144	2578,343	PN
866	92842,800	97423,547	2581,335	CERRAM
3763	92104,989	97814,254	2576,848	BRIO
69	92337,424	97595,524	2582,780	HB
3627	91873,874	97848,053	2584,991	PN
2326	92806,592	97075,250	2581,656	CERRAM
4364	92278,349	97837,149	2579,525	PN
1676	92802,979	97484,344	2578,395	LAMAGUA
1887	92698,006	97265,663	2582,433	PN
532	92613,028	97373,241	2582,204	PN
1125	92414,147	97628,790	2580,384	PN
1458	92926,912	97643,122	2578,865	BRIO
3926	91985,772	98154,471	2580,875	PN
406	92679,149	97550,799	2584,602	PN
3189	92169,235	97923,447	2578,349	PN
2308	92907,105	97070,467	2578,158	PN

PN	ESTE	NORTE	COTA	PD
875	92835,664	97441,443	2584,306	PN
3231	92178,481	97847,721	2576,799	PN
311	92223,041	97427,959	2580,641	PN
2922	93024,142	96835,230	2584,882	CERRAM
267	92313,865	97388,996	2580,117	CERRAM
1438	92401,213	97472,026	2578,076	BRIO
561	92645,308	97551,499	2577,711	BORRIO
4190	92072,694	97896,991	2577,990	PN
2863	93002,792	96980,731	2582,798	PN
2914	93071,553	97060,432	2583,819	CERRAM
791	92884,312	97753,153	2578,401	LAMAGUA
3886	91963,397	98095,331	2577,107	PN
3431	92115,816	97754,818	2579,344	PN
481	92693,613	97396,345	2582,215	PN
3777	92070,721	98066,549	2580,320	CERRAM
3178	92190,827	97871,354	2577,799	PBCO
3478	92904,479	97631,805	2578,746	BL_RIO
2767	92900,166	96963,337	2579,966	BRIO
2542	92869,288	97333,975	2578,620	PBCO
674	92905,936	97648,884	2579,543	BORBCO
3036	92176,269	97484,278	2581,932	PN
4283	92123,558	98005,031	2580,253	PN
4229	92110,137	97831,850	2578,547	PN
4256	92738,465	97546,849	2578,819	BL_RIO
3760	91981,094	98106,364	2576,395	BRIO
2539	92882,851	97328,191	2578,802	PBCO
1684	92858,670	97521,235	2578,728	LAMAGUA
3802	91955,821	98199,470	2582,418	CERCA

PN	ESTE	NORTE	COTA	PD
2743	92910,547	97008,591	2579,242	BL_RIO
4114	92020,498	97972,866	2578,020	PN
1477	92742,303	97497,010	2578,957	BRIO
3996	91983,654	98041,413	2578,013	PN
1489	92733,604	97455,755	2579,693	PN
2779	93002,372	97000,043	2580,168	PN
3041	92167,436	97465,400	2581,568	CERCA
396	92658,706	97547,263	2582,914	PN
742	92833,340	97587,188	2579,696	BBCO
260	92406,647	97396,811	2580,446	CERRAM
2491	92874,222	97239,059	2580,201	PN
1713	92710,436	97460,586	2579,053	BRIO
3205	92137,072	97954,614	2579,358	BBCO
263	92369,821	97396,027	2580,376	CERRAM
2927	92968,160	97044,769	2580,010	PN
2226	92976,426	97127,406	2578,009	PN
1793	92838,727	97283,708	2583,294	PN
3061	92171,965	97544,445	2582,362	PN
2046	92846,931	97867,828	2579,620	BRIO
2654	92936,500	96902,012	2580,648	PN
2532	92904,125	97316,230	2578,908	PBCO
3123	92251,345	97776,449	2580,267	BBCO
420	92613,597	97475,008	2583,386	PN
4216	92097,383	97844,648	2577,279	PN
3137	92258,878	97770,887	2577,937	PBCO
1173	92407,148	97715,221	2581,615	PN
2251	92876,047	97143,421	2580,899	PN
746	92836,331	97624,889	2578,746	PBCO

PN	ESTE	NORTE	COTA	PD
3808	91879,176	98229,155	2583,142	CERCA
2617	92921,162	96824,684	2582,427	PN
100	92437,283	97469,684	2578,361	BRIO
3885	91961,145	98099,113	2576,557	PN
1721	92695,832	97385,292	2581,843	PN
3689	91942,218	98036,343	2579,868	PN
3622	91971,809	97867,557	2582,885	PN
386	92318,431	97463,289	2581,007	PN
1228	92666,774	97717,796	2578,049	PN
3534	92088,555	97745,428	2581,050	CERCA
1042	92291,962	97628,035	2580,124	.
3432	92083,681	97769,002	2581,291	PN
1916	92816,433	97144,676	2580,644	PN
448	92712,306	97542,815	2583,539	PN
2629	92869,780	96898,819	2582,507	PN
3511	91948,675	97904,181	2583,734	PN
1791	92828,175	97282,872	2581,733	PN
1436	92813,249	97573,431	2578,017	LAMAGUA
4174	92058,450	97918,028	2578,216	PN
4204	92109,858	97880,566	2577,513	PN
626	92673,843	97621,189	2579,009	PN
2492	92865,602	97228,953	2580,028	PN
1993	92736,509	97875,498	2578,425	BRIO
193	92396,622	97447,666	2581,616	PN
1445	92355,277	97465,424	2582,389	PN
1609	92833,222	97443,939	2584,103	PN
2663	92928,999	96863,883	2581,371	PN
2825	92948,055	96966,399	2580,945	PN

PN	ESTE	NORTE	COTA	PD
545	92659,659	97365,055	2582,038	PN
2573	92915,297	97281,969	2579,062	BBCO
4245	92140,602	97859,836	2576,793	BRIO
1415	92694,283	97710,560	2578,699	PN
2520	92903,186	97302,783	2579,061	PBCO
2090	92828,269	97891,169	2578,547	BRIO
4344	92183,904	97906,078	2577,493	BRIO
863	92876,442	97441,784	2581,333	CERRAM
3344	92160,420	97751,270	2578,424	PN
3105	92126,788	97705,205	2581,073	CERCA
4183	92066,239	97905,768	2578,691	PN
2642	92906,923	96907,562	2580,805	PN
2828	92962,176	96974,141	2579,972	PN
3368	92127,092	97801,866	2579,104	PN
3371	92157,033	97821,519	2577,728	PN
2001	92708,615	97765,678	2581,079	CERRAM
3059	92167,064	97528,131	2581,983	PN
1545	92920,071	97617,936	2578,741	PN
1815	92831,287	97231,093	2580,488	PN
2730	92949,686	96918,761	2580,650	PN
424	92650,654	97505,910	2583,140	PN
2766	92909,219	96965,759	2580,122	BRIO
3495	91957,969	97987,815	2578,441	PN
2454	92870,292	97256,869	2579,393	BBARANCO
3754	92096,249	97900,296	2577,426	BRIO
2941	92998,390	97121,490	2580,950	PN
1215	92604,583	97657,778	2580,213	PN
2078	92780,688	97566,017	2578,802	BL_RIO

PN	ESTE	NORTE	COTA	PD
3331	92162,523	97733,226	2578,872	PBCO
287	92220,512	97386,277	2580,221	ZODURA
1181	92392,146	97754,403	2580,973	PN
4022	92075,323	98008,576	2580,216	PN
3115	92156,445	97689,475	2580,893	PN
2083	92764,355	97875,406	2579,041	PN
1005	92327,347	97773,021	2580,548	PN
2509	92937,796	97317,299	2578,545	PBCO
1883	92730,597	97296,304	2584,098	PN
507	92630,338	97414,116	2582,245	MALLA
1188	92450,278	97713,061	2581,617	PN
1159	92366,001	97686,650	2580,407	PN
4158	92043,768	97939,736	2577,942	PN
2901	92982,968	97182,662	2586,021	PN
4379	92081,028	97948,588	2577,221	LAMAGUA
1562	92975,298	97649,593	2582,803	PN
4384	92109,373	97990,975	2577,376	BRIO
3794	92013,102	98129,196	2576,537	BRIO
2076	92790,426	97892,647	2579,128	PN
4414	93007,626	96907,210	2579,071	BRIO
4068	92060,754	98090,851	2580,099	PN
4074	92052,941	98099,098	2577,906	PN
445	92693,142	97559,058	2583,689	PN
1882	92693,471	97291,396	2582,587	PN
2664	92923,311	96844,491	2581,979	PN
1836	92782,741	97254,097	2583,742	PN
32	92326,095	97554,829	2577,794	LAM
1825	92813,852	97202,061	2580,937	PN

PN	ESTE	NORTE	COTA	PD
1854	92760,459	97265,812	2584,231	BBCO
3132	92237,039	97753,223	2577,708	PBCO
2493	93011,682	97131,474	2579,135	BL_RIO
1473	92755,791	97553,075	2578,798	BRIO
2668	92949,758	96887,212	2580,023	PN
4429	92439,588	97472,654	2578,033	BRIO
2032	92933,630	97729,975	2579,846	BBCO
995	92264,225	97697,507	2580,373	PN
1268	92577,399	97625,836	2578,813	LAMAGUA
4200	92098,936	97894,730	2577,299	BRIO
3048	92112,866	97512,103	2581,753	CERCA
2940	92996,747	97131,940	2581,687	PN
2847	93010,586	96948,365	2585,722	PN
1594	92857,093	97482,582	2580,451	PN
642	92657,937	97624,307	2577,544	BORRIO
2094	92784,839	97912,292	2578,464	BRIO
4437	92859,429	97858,780	2578,468	BRIO
505	92644,794	97425,550	2582,242	MALLA
2193	92885,257	97038,833	2578,600	PN
4194	92095,422	97891,470	2578,497	PN
496	92695,769	97498,688	2583,769	PN
4334	92213,742	97956,981	2580,648	PN
808	92858,921	97639,818	2578,784	LAMAGUA
42	92306,568	97512,330	2578,834	HB
2512	92949,375	97297,443	2578,527	PBCO
753	92868,461	97643,568	2579,531	PBCO
2574	92927,046	97282,203	2579,782	PN
1725	92701,020	97384,698	2579,475	PN

PN	ESTE	NORTE	COTA	PD
2433	92911,958	97355,426	2580,370	PN
3803	91943,512	98204,132	2582,442	CERCA
325	92222,541	97518,741	2577,845	PN
2177	92850,165	96991,742	2581,559	PN
2200	92929,568	97035,154	2581,064	PN
2905	92958,931	97200,481	2586,270	PN
2959	92211,784	97670,161	2577,551	PN
2263	92819,030	97139,996	2579,839	PN
1234	92677,611	97699,562	2578,199	BRIO
2364	92770,536	97300,946	2578,225	LANAGUA
3468	92019,207	97897,788	2579,806	PN
2201	92928,206	97042,047	2579,103	PN
2916	93057,883	97047,483	2584,654	CERRAM
1655	92824,174	97366,860	2581,813	PN
418	92657,012	97515,827	2583,175	PN
2841	93022,076	96938,605	2584,103	PN
4129	92038,256	97951,003	2576,800	PN
3485	92987,550	97015,112	2579,235	BL_RIO
1660	92801,800	97342,440	2580,791	CERCA
1402	92568,247	97595,137	2579,359	PN
4291	92128,796	98009,436	2580,432	CERRAM
2023	92840,754	97862,421	2581,173	PN
3737	91949,733	98052,328	2579,628	PN
3128	92250,206	97764,590	2580,226	BBCO
1417	92720,999	97729,323	2578,365	PN
1492	92738,932	97467,604	2579,662	PN
3834	91929,624	98075,160	2580,251	PN
2063	92765,936	97771,269	2577,861	LAMAGUA



PN	ESTE	NORTE	COTA	PD
2963	92216,305	97568,735	2578,486	PN
1413	92677,049	97707,044	2578,851	PN
75	92355,619	97592,806	2580,348	HB
3335	92151,039	97746,377	2578,655	BBCO
2623	92890,288	96864,137	2582,969	PN
1057	92268,459	97520,155	2578,227	PN
2395	92960,792	97378,600	2582,149	CERCA
1117	92378,196	97639,193	2580,323	PN
483	92678,207	97396,548	2583,453	PN
2147	92948,784	96925,657	2581,201	PN
4201	92078,175	97880,720	2578,307	PN
2175	92854,605	96976,699	2580,829	PN
1540	92891,967	97599,441	2579,656	PN
270	92275,495	97384,315	2580,279	CERRAM
745	92856,451	97615,970	2578,955	PBCO
1248	92627,418	97630,710	2579,347	PN
999	92304,287	97738,700	2580,089	PN
1531	92846,916	97557,617	2578,958	PN
868	92830,117	97422,738	2583,764	PN
2684	92960,155	96823,694	2579,540	PN
1412	92675,978	97712,615	2578,589	PN
3127	92246,318	97765,812	2580,466	BBCO
78	92363,207	97584,684	2581,176	HB
4473	92957,828	97676,921	2578,712	BRIO
607	92676,456	97670,010	2580,292	PN
4044	92039,582	98111,314	2575,840	PN
3967	92020,674	98131,838	2576,567	PN
3162	92216,797	97830,094	2576,911	PBCO

PN	ESTE	NORTE	COTA	PD
2844	93030,043	96954,855	2586,209	PN
3392	92113,832	97897,519	2577,172	BRIO
1553	92982,440	97684,700	2582,262	PN
2621	92879,207	96861,352	2583,345	PN
2240	92960,177	97101,180	2578,336	PN
511	92609,697	97414,731	2582,262	MALLA
572	92672,586	97599,863	2577,638	BORRIO
2379	92802,002	97342,380	2580,901	CERCA
1337	92521,168	97446,547	2579,479	PN
3624	91990,959	97869,698	2582,263	PN
1079	92260,797	97590,130	2579,483	PN
2054	92890,811	97848,223	2578,685	BRIO
2793	92991,583	96965,280	2579,903	PN
3030	92178,000	97515,685	2582,154	PN
659	92754,981	97572,649	2580,079	BORBCO
4388	92986,333	96806,912	2579,482	BRIO
1969	92686,026	97744,645	2578,500	PN
3526	92004,354	97810,792	2581,699	CERCA
3119	92182,787	97702,889	2581,742	PN
2262	92823,470	97154,609	2580,584	PN
3185	92163,711	97904,084	2577,235	PN
2247	92888,008	97142,675	2580,980	PN
3545	91922,796	97933,264	2583,542	PN
2896	92703,676	97393,809	2578,939	BL_RIO
274	92215,523	97374,975	2580,199	CERRAM
274	93010,149	97013,848	2579,226	BL_RIO
1621	92826,108	97431,996	2584,183	PN
2078	92784,968	97885,826	2580,260	PN

PN	ESTE	NORTE	COTA	PD
1850	92824,244	97305,901	2579,008	BL_RIO
2993	92188,134	97586,658	2578,765	PBCO
630	92676,852	97610,441	2578,290	PN
1812	92716,211	97464,201	2578,884	BL_RIO
3246	92270,915	97740,551	2577,256	BBCO
4030	92024,069	98087,349	2577,166	PN
3558	91961,123	97940,258	2578,227	PN
1903	92766,332	97244,945	2584,151	PN
4304	92177,023	97984,561	2580,540	PN
155	92579,545	97445,265	2582,177	PN
729	92750,806	97589,377	2578,728	PBCO
2189	92896,663	97019,842	2580,902	PN
1588	92876,173	97485,851	2581,228	PN
1889	93010,069	97144,409	2579,126	BL_RIO
2480	92844,872	97366,849	2583,314	PN
3065	92139,593	97548,356	2582,585	PN
2829	92957,761	96982,057	2579,929	PN
2093	92799,062	97914,946	2578,718	BRIO
1119	92396,577	97627,835	2580,373	PN
2884	93042,822	97051,073	2585,049	PN
2773	92970,721	97014,319	2579,078	BRIO
2457	92921,343	97267,543	2578,989	BBARANCO
1794	92850,136	97263,992	2580,565	PN
2921	93028,336	96870,991	2585,184	CERRAM
4109	92026,813	97981,791	2576,824	PN
2190	92877,295	97032,059	2578,915	PN
242	92654,966	97349,340	2582,847	PN
1895	92749,777	97273,981	2584,561	PN

PN	ESTE	NORTE	COTA	PD
1000	92323,075	97734,587	2580,384	PN
1448	92789,927	97304,433	2579,014	BL_RIO
1322	92473,879	97476,750	2577,977	LAMAGUA
2437	92853,995	97355,294	2580,104	PN
4128	92018,348	97959,023	2577,291	PN
756	92946,250	97680,902	2579,329	PBCO
1980	92717,093	97757,896	2578,674	PN
411	92687,065	97538,808	2583,484	PN
1184	92437,992	97737,665	2581,113	PN
798	93015,163	97034,530	2579,212	BL_RIO
2896	93035,273	97169,423	2584,618	PN
1982	92714,980	97767,708	2578,876	PN
4145	92084,336	97980,606	2579,018	PN
2304	92886,732	97076,400	2578,531	PN
3698	91971,958	98148,357	2577,785	PN
2646	92907,291	96888,740	2582,277	PN
3695	91968,657	98195,148	2582,534	CERCA
1175	92390,026	97733,654	2581,462	PN
2991	92186,939	97576,516	2579,490	PBCO
2309	92908,598	97070,776	2578,439	PN
4096	92079,566	97981,793	2577,871	PN
1997	92707,181	97819,216	2580,843	CERRAM
4328	92237,048	97928,655	2580,483	CERRAM
584	92734,119	97721,969	2578,608	BORRIO
1856	92770,783	97270,003	2578,792	PBCO
2279	92855,245	97098,690	2578,380	PN
1456	92962,765	97671,778	2578,712	BRIO
4049	92049,587	98088,462	2577,276	PN

PN	ESTE	NORTE	COTA	PD
1319	92509,074	97458,375	2578,010	LAMAGUA
2462	92922,225	97267,186	2579,219	PN
3160	92228,279	97824,366	2576,894	PBCO
1339	92466,488	97484,735	2578,173	LAMAGUA
3595	91939,784	97834,724	2584,676	PN
3024	92178,259	97537,395	2582,315	PN
3383	92178,926	97829,350	2577,612	PN
3874	91934,678	98146,379	2578,878	PN
2811	92911,179	96974,815	2580,733	PN
1241	92659,453	97599,108	2578,088	BRIIO
3134	92247,965	97748,801	2577,853	PBCO
2745	92983,948	96814,353	2580,549	BRIIO
323	92209,404	97526,487	2578,010	PN
190	92407,698	97444,281	2581,542	PN
1792	92833,522	97283,569	2583,199	PN
332	92288,819	97501,415	2577,954	PN
1352	92451,219	97497,859	2578,963	PN
2912	93023,569	97179,976	2584,971	CERRAM
4023	92020,728	98064,111	2577,670	PN
3638	91878,588	97910,548	2584,358	PN
1015	92358,623	97748,750	2580,910	PN
2935	92979,789	97127,225	2578,022	PN
1469	92810,367	97562,510	2578,656	BRIIO
2487	92888,133	97270,809	2580,534	PN
3556	91937,696	97945,198	2580,214	PN
3454	92058,468	97841,850	2578,558	PN
632	92679,746	97594,387	2579,176	PN
3116	92162,307	97714,944	2581,680	PN

PN	ESTE	NORTE	COTA	PD
1874	92715,313	97390,823	2578,946	BL_RIO
4193	92068,114	97894,408	2577,070	PN
4100	92051,651	97994,803	2577,493	PN
4423	92333,697	97631,017	2577,843	PN
3182	92167,412	97895,854	2577,084	BBCO
1593	92853,759	97456,646	2582,084	PN
2636	92916,229	96935,206	2581,589	PN
2198	92913,007	97029,482	2581,036	PN
137	92567,846	97448,677	2578,978	PBCO
767	92943,219	97767,713	2578,627	PBCO
1965	92659,032	97736,023	2579,176	PN
1634	92800,069	97368,281	2581,411	PN
2132	92876,664	96951,188	2579,419	BRIIO
1855	92779,586	97265,939	2578,917	PBCO
3950	91943,173	98166,191	2578,964	PN
3985	92010,155	98091,745	2578,047	PN
2923	93019,970	96801,707	2584,230	CERRAM
2537	92895,185	97337,848	2578,690	PBCO
77	92361,878	97588,702	2581,370	HB
2626	92881,981	96887,783	2582,478	PN
3245	92251,553	97732,338	2577,123	BBCO
880	92806,210	97472,381	2580,641	CERCA
1112	92364,018	97644,511	2580,344	PN
2419	92944,041	97311,966	2579,073	PN
4045	92033,990	98086,613	2576,734	PN
1679	92850,832	97471,616	2577,137	LAMAGUA
1535	92857,495	97569,172	2579,340	PN
439	92679,716	97556,432	2584,138	PN

PN	ESTE	NORTE	COTA	PD
460	92715,753	97488,081	2582,351	PN
1471	92780,505	97563,370	2578,937	BRIO
1641	92850,817	97381,949	2583,024	PN
2167	92850,417	96951,021	2582,734	PN
3636	91866,773	97904,745	2584,514	PN
1008	92362,656	97774,094	2580,823	PN
1914	92822,211	97182,320	2582,633	PN
4373	91957,176	98022,326	2576,764	BRIO
3823	91902,501	98128,944	2580,978	CERCA
2691	92939,024	96862,003	2581,285	PN
1658	92806,173	97351,954	2581,325	PN
1963	92684,872	97748,690	2580,651	PN
3869	91913,073	98170,514	2580,584	PN
1766	92749,187	97325,955	2581,964	PN
2405	92962,221	97298,328	2585,735	PN
129	92547,411	97420,522	2582,357	BBCO
1817	92792,996	97272,646	2578,046	PBCO
3330	92169,816	97741,639	2580,234	BBCO
1859	92753,675	97286,966	2578,025	PBCO
4271	92103,780	97973,978	2577,244	LAMAGUA
186	92432,428	97433,499	2581,694	PN
988	92284,688	97754,342	2577,073	BRIO
2702	92975,298	96820,217	2581,175	PN
1419	92725,749	97760,172	2578,272	PN
2052	92923,439	97823,268	2578,861	BRIO
2992	92201,339	97501,366	2577,594	PBCO
473	92693,231	97429,527	2582,620	PN
4081	92038,700	98144,027	2578,098	PN

PN	ESTE	NORTE	COTA	PD
2317	92913,453	97063,852	2578,621	PN
1069	92281,407	97558,659	2578,527	PN
3258	92227,027	97861,953	2577,152	BBCO
3817	91877,747	98174,502	2583,774	CERCA
2939	92985,321	97134,890	2580,468	PN
2137	92916,619	96946,031	2580,604	BRIO
224	92489,433	97394,349	2581,437	PN
3113	92136,493	97713,433	2580,967	PN
2732	92949,551	96923,071	2581,082	PN
2535	92906,340	97334,255	2578,561	PBCO
2072	92803,647	97885,713	2580,870	PN
1528	92827,005	97552,472	2579,492	PN
1800	92827,899	97574,510	2578,799	BL_RIO
760	92917,250	97673,284	2579,571	PBCO
3409	92089,364	97802,275	2577,172	BRIO
2506	92920,213	97343,247	2578,669	PBCO
4224	92123,473	97865,411	2578,374	PN
1685	92676,453	97553,460	2584,673	CHKDEL1
4430	92461,571	97448,796	2578,396	BRIO
1177	92369,678	97756,100	2580,727	PN
3813	91868,737	98197,841	2583,539	CERCA
171	92520,687	97402,519	2581,708	PN
228	92519,076	97388,918	2581,221	PN
1598	92847,249	97436,864	2582,947	PN
913	92769,568	97564,509	2578,802	BL_RIO
1422	92777,978	97429,128	2580,987	PN
469	92693,598	97450,661	2583,768	PN
4107	92040,779	97988,129	2577,009	PN

PN	ESTE	NORTE	COTA	PD
1610	92774,304	97434,619	2580,229	PN
2524	92879,259	97311,752	2578,361	PBCO
2438	92843,670	97353,467	2580,363	PN
3223	92113,926	97932,831	2579,836	PN
996	92285,451	97707,732	2580,170	PN
3406	92067,271	97843,097	2576,811	BRIO
2959	92191,511	97612,923	2577,540	PN
3992	91996,276	98063,041	2576,730	PN
1007	92340,776	97788,652	2580,527	PN
3455	92045,838	97865,563	2578,644	PN
2002	92697,866	97761,119	2581,340	CERRAM
3332	92167,794	97739,136	2580,183	BBCO
2451	92868,505	97296,354	2579,863	BBARANCO
3377	92172,830	97817,790	2577,512	PN
3288	92194,693	97904,666	2577,441	PN
4106	92041,922	97999,566	2577,199	PN
3310	92216,527	97760,341	2576,945	FON
3868	91918,575	98188,886	2579,351	PN
1778	92802,680	97280,584	2581,477	PN
2972	92246,540	97512,052	2577,873	BBCO
1860	92738,419	97325,558	2577,942	PBCO
3341	92140,793	97753,097	2577,006	PN
815	92688,985	97641,814	2578,292	LAMAGUA
3650	91869,488	97921,682	2584,202	PN
2315	92912,575	97091,390	2578,567	PN
2983	92875,525	97158,583	2579,098	BL_RIO
2476	92894,647	97368,881	2583,224	PN
4413	93007,366	96902,575	2579,071	BRIO

PN	ESTE	NORTE	COTA	PD
3517	91959,610	97848,803	2584,334	PN
1039	92260,882	97621,701	2579,449	.
3714	91953,281	98142,181	2577,309	LAMAGUA
4440	93015,955	96914,507	2579,071	BRIO
4195	92096,522	97892,657	2577,566	PN
3665	91858,867	97852,223	2584,144	CERCA
2589	92880,846	96836,748	2584,154	CERCA
3605	91877,552	97869,441	2584,844	PN
3097	92816,310	97564,603	2578,798	BL_RIO
1966	92663,189	97731,755	2578,479	PN
1203	92551,109	97684,277	2580,229	PN
281	92251,973	97388,751	2580,222	ZODURA
3469	92024,329	97897,141	2579,880	PN
2472	92931,561	97371,053	2582,430	PN
2486	92912,360	97304,996	2579,550	PN
68	92407,702	97466,183	2583,190	HB
3620	91930,042	97878,906	2584,734	PN
614	92674,677	97642,938	2580,720	PN
3597	91922,800	97836,307	2585,012	PN
2314	92886,046	97119,940	2578,326	PN
4263	92113,496	97839,589	2578,147	PN
3931	91993,208	98168,259	2577,053	PN
3866	91909,512	98189,304	2580,193	PN
3899	92898,768	97167,866	2579,101	BL_RIO
4177	92061,576	97896,102	2577,356	PN
2250	92876,847	97139,156	2579,124	PN
269	92286,993	97385,831	2580,007	CERRAM
1481	92712,823	97435,890	2578,316	BRIO

PN	ESTE	NORTE	COTA	PD
875	92938,829	97160,935	2579,103	BL_RIO
4420	92322,696	97613,776	2577,843	PN
4420	92888,713	97157,637	2579,099	BL_RIO
2411	92938,122	97342,564	2583,409	PN
4238	92118,909	97838,539	2577,342	PN
1211	92578,702	97655,694	2579,471	PN
2517	92918,390	97308,845	2578,972	PBCO
1977	92713,472	97749,363	2578,412	PN
257	92449,034	97390,522	2580,512	CERRAM
2810	92906,085	96971,154	2580,371	PN
4071	92055,526	98115,129	2580,232	PN
4462	92216,375	97654,576	2577,548	PN
2062	92789,951	97857,333	2578,319	LAMAGUA
514	92585,160	97445,389	2582,311	MALLA
1564	92949,768	97630,929	2580,874	PN
1039	93010,614	97106,975	2579,154	BL_RIO
372	92240,975	97476,319	2581,556	PN
3858	91880,113	98187,610	2580,815	PN
1678	92840,979	97472,388	2576,960	LAMAGUA
1418	92728,091	97747,232	2578,230	PN
907	92983,361	97718,384	2581,853	PN
819	92688,604	97616,675	2578,131	LAMAGUA
3492	91968,406	97984,233	2578,400	PN
3863	91926,265	98196,865	2577,956	PN
3145	92255,635	97802,993	2581,192	BBCO
2748	92984,625	96781,327	2580,276	BRIO
429	92640,914	97500,099	2583,743	PN
3421	92137,488	97736,819	2578,465	PN

PN	ESTE	NORTE	COTA	PD
3746	91984,100	97980,268	2576,674	BRIO
558	92632,721	97541,233	2578,140	BORRIO
1861	92746,299	97295,823	2577,954	PBCO
2967	92213,400	97561,099	2578,312	PN
1003	92315,161	97762,120	2580,311	PN
156	92453,397	97443,693	2580,885	PN
1831	92784,892	97230,870	2583,952	PN
151	92592,532	97454,968	2582,172	PN
4187	92077,230	97913,139	2577,732	PN
2704	92965,526	96825,400	2580,319	PN
1311	92556,335	97495,916	2578,982	LAMAGUA
2008	92870,440	97264,042	2579,034	BL_RIO
3815	91874,822	98182,016	2583,918	CERCA
3800	91981,574	98189,435	2582,505	CERCA
3855	91894,960	98213,516	2580,527	PN
3211	92122,955	97942,912	2577,008	PBCO
2155	92892,336	96934,374	2581,472	PN
3968	92027,810	98136,425	2577,506	PN
1432	92788,749	97376,624	2581,862	PN
1674	92783,825	97462,553	2578,404	LAMAGUA
1127	92424,824	97641,330	2580,393	PN
1242	92657,269	97592,402	2578,756	PN
2686	92948,951	96786,626	2580,418	PN
1866	92716,352	97344,335	2577,348	PBCO
2288	92844,259	97047,776	2580,283	PN
3025	92192,500	97528,909	2581,759	BBCO
1030	92289,867	97666,693	2579,762	PN
840	92972,034	97791,706	2580,976	SARD

PN	ESTE	NORTE	COTA	PD
1295	92594,221	97548,547	2578,991	PN
3847	91910,404	98156,869	2580,649	PN
3250	92290,303	97795,267	2577,314	BBCO
1355	92439,288	97533,801	2577,976	PN
3644	91923,844	97916,500	2584,041	PN
4327	92207,154	97975,785	2580,296	CERRAM
676	92927,834	97664,377	2579,866	BORBCO
1801	92843,519	97258,083	2581,361	PN
2232	92954,651	97150,621	2580,796	PN
3832	91929,430	98070,377	2580,720	PN
1680	92853,669	97480,162	2578,548	LAMAGUA
373	92241,631	97478,606	2581,572	PN
936	92731,973	97792,845	2578,639	PN
3836	91929,677	98084,620	2580,467	PN
3679	91904,103	97967,173	2582,394	CERCA
1532	92847,450	97556,303	2579,088	PN
3519	91973,852	97826,253	2582,479	PN
2165	92846,095	96941,069	2583,947	PN
589	92697,774	97694,250	2578,894	BORRIO
1377	92755,738	97564,615	2578,804	BL_RIO
3904	91965,672	98102,928	2579,052	PN
2184	92850,548	97007,429	2581,568	PN
4199	92079,034	97882,407	2578,298	PN
898	92993,540	97648,246	2581,305	CERCA
3274	92220,509	97849,196	2577,223	BBCO
2883	93048,791	97056,233	2583,394	PN
3417	92137,660	97760,107	2577,444	PN
3483	91986,059	97957,693	2578,408	PN

PN	ESTE	NORTE	COTA	PD
4120	92012,054	97959,431	2576,550	BRIO
1935	92725,519	97237,102	2581,919	PN
3524	92020,471	97821,758	2581,303	PN
3029	92164,682	97541,740	2582,187	PN
4469	92191,142	97566,907	2577,532	BBCO
365	92265,445	97452,337	2580,174	PN
3157	92234,278	97828,197	2579,110	BBCO
2507	92924,798	97330,240	2577,984	PBCO
3420	92140,198	97744,711	2578,275	PN
3816	91873,298	98219,721	2580,336	PN
709	92948,109	97708,948	2580,945	PN
1947	92621,241	97316,132	2582,014	CERRAM
3602	91888,083	97847,605	2585,060	PN
1185	92430,823	97726,804	2581,388	PN
611	92667,795	97657,971	2580,725	PN
4206	92107,416	97880,721	2578,337	PN
2119	93009,332	97083,314	2579,774	BRIO
1639	92840,188	97395,907	2583,157	PN
1463	92872,014	97597,653	2578,596	BRIO
2129	92877,977	96991,890	2580,031	BRIO
3548	91948,342	97904,655	2583,866	PN
302	92371,406	97403,271	2580,568	PN
3690	91949,205	98047,618	2579,666	PN
1996	92945,914	97660,310	2578,723	BL_RIO
4357	92254,147	97877,609	2580,445	PN
2875	93019,132	96987,450	2583,491	PN
2461	92911,693	97245,915	2579,750	PN
3860	91917,940	98200,664	2579,755	PN



PN	ESTE	NORTE	COTA	PD
3898	91946,114	98030,725	2579,788	PN
409	92630,360	97502,996	2583,689	PN
160	92449,773	97447,530	2580,960	PN
2577	92917,301	97274,465	2579,640	PN
4467	92201,878	97539,852	2577,937	BBCO
3838	91928,220	98097,368	2580,552	PN
4374	92268,852	97512,244	2577,643	BBCO
1893	92730,358	97280,312	2583,019	PN
2161	92862,624	96933,552	2581,383	PN
1659	92811,547	97342,805	2580,790	CERCA
2423	92917,194	97353,235	2579,551	PN
3329	92155,684	97740,550	2578,790	BBCO
3289	92214,437	97885,066	2578,077	PN
1756	92789,422	97283,851	2579,775	PN
2739	93003,750	96900,829	2580,868	BRIO
316	92217,058	97447,118	2583,383	PN
3271	92246,969	97829,878	2577,330	BBCO
4031	92044,816	98013,883	2577,503	PN
4089	92135,509	98001,860	2579,271	BRIO
521	92566,955	97390,297	2581,826	PN
3172	92192,850	97851,422	2577,192	PBCO
2541	92872,584	97331,896	2578,826	PBCO
4111	92024,599	97974,849	2577,211	PN
1667	92814,727	97310,174	2579,587	BRIO
3032	92175,504	97504,450	2582,136	PN
3199	92144,185	97966,744	2579,682	PN
1049	92285,576	97587,929	2580,296	.
63	92398,770	97466,448	2581,299	HB

PN	ESTE	NORTE	COTA	PD
1501	92754,771	97522,260	2579,404	PN
3490	91973,315	97965,386	2576,886	PN
2496	92889,350	96992,315	2579,254	BL_RIO
2591	92892,792	96806,663	2583,655	CERCA
2273	92852,362	97135,748	2578,447	PN
1019	92361,839	97716,626	2581,320	PN
59	92324,153	97572,842	2579,852	HB
539	92878,178	97606,287	2578,765	BL_RIO
2324	92836,319	97033,246	2581,578	PN
1451	92837,630	97280,423	2584,562	DEL3
216	92425,500	97415,046	2580,758	PN
1502	92753,784	97532,570	2579,106	PN
586	92721,577	97711,729	2579,015	BORRIO
1044	92745,164	97533,368	2578,828	BL_RIO
727	92729,185	97572,645	2578,841	PBCO
354	92273,977	97481,343	2578,558	PN
3166	92225,855	97840,066	2577,582	PBCO
3256	92249,112	97845,362	2577,327	BBCO
1729	92668,166	97382,737	2582,244	PN
974	92327,264	97822,187	2580,357	PN
3404	92046,303	97884,387	2576,834	BRIO
1027	92307,762	97682,237	2580,009	PN
1427	92697,791	97514,975	2584,701	PN
382	92282,174	97472,161	2581,286	PN
4088	92145,975	98000,276	2579,759	BRIO
3912	91978,383	98131,575	2579,365	PN
1370	92412,109	97570,574	2577,722	BRIO
1590	92863,519	97516,117	2580,360	PN

PN	ESTE	NORTE	COTA	PD
1570	92952,745	97599,677	2581,364	PN
369	92238,210	97466,337	2580,103	PN
1633	92823,319	97408,415	2583,753	PN
479	92684,109	97409,803	2583,459	PN
3358	92134,229	97787,440	2577,758	PN
2498	92843,017	97349,599	2578,425	PBCO
437	92635,972	97534,710	2580,822	PN
2169	92861,141	96954,997	2580,820	PN
525	92585,091	97387,013	2581,710	PN
2503	92898,162	97353,668	2578,839	PBCO
4051	92041,402	98059,149	2576,292	PN
943	92632,262	97718,465	2581,428	PARED
3564	91975,134	97918,297	2578,794	PN
3988	91995,413	98083,831	2577,401	PN
1256	92599,388	97626,461	2578,057	PN
3046	92112,504	97508,220	2581,673	CERCA
1361	92428,557	97563,254	2578,252	PN
3159	92251,174	97817,582	2577,531	PBCO
2869	93003,967	96989,900	2584,308	PN
3170	92204,895	97841,307	2577,136	PBCO
3037	92168,454	97492,888	2581,957	PN
1894	92715,495	97241,096	2582,149	PN
1332	92527,497	97434,577	2578,251	BRIO
3478	91996,480	97940,723	2579,018	PN
2953	92246,002	97553,141	2578,321	PN
3544	91910,711	97953,116	2582,585	PN
748	92846,760	97635,084	2579,440	PBCO
1631	92799,022	97406,108	2583,979	PN

PN	ESTE	NORTE	COTA	PD
1915	92820,384	97154,317	2580,704	PN
1773	93013,249	97027,145	2579,221	BL_RIO
1037	92257,728	97621,252	2580,272	PN
2661	92914,252	96849,719	2582,396	PN
471	92698,708	97448,332	2582,841	PN
1395	92473,340	97674,657	2578,033	LAMAGUA
2268	92826,339	97128,059	2579,891	PN
4213	92094,908	97843,055	2577,995	PN
1875	92693,179	97336,522	2581,114	PBCO
4376	92145,433	97985,399	2577,589	BRIO
343	92317,244	97558,677	2578,900	PN
2754	93012,447	96871,574	2579,071	BRIO
463	92699,540	97481,742	2583,001	PN
4198	92093,005	97888,459	2577,492	PN
909	92982,923	97743,831	2581,912	PN
3405	92051,760	97874,021	2576,978	BRIO
769	92931,400	97720,813	2578,891	PBCO
3993	91983,488	98058,269	2577,269	PN
1454	92978,743	97698,132	2578,575	BRIO
3286	92177,562	97949,758	2577,342	BBCO
149	92605,161	97463,348	2582,233	PN
1416	92709,241	97721,542	2578,711	PN
783	92753,329	97339,630	2578,979	BL_RIO
702	92830,877	97598,947	2581,018	PN
634	92684,793	97592,794	2579,094	PN
3475	92000,841	97903,509	2578,585	PN
2607	92917,976	96777,561	2582,157	PN
2305	92895,995	97079,451	2578,403	PN

PN	ESTE	NORTE	COTA	PD
3062	92161,466	97545,709	2582,324	PN
3767	92056,430	98134,102	2580,399	CERRAM
1253	92609,962	97632,722	2578,620	PN
3493	91966,988	97977,283	2578,779	PN
2416	92935,339	97269,712	2581,241	PN
3133	92252,201	97787,336	2577,423	PBCO
2775	92931,436	97659,418	2578,728	BL_RIO
4149	92076,912	97963,017	2579,206	PN
1426	92773,456	97379,294	2581,059	PN
3225	92124,719	97907,706	2577,163	PBCO
2339	92850,119	96913,927	2584,286	CERCA
1666	92809,616	97320,476	2579,739	PN
1089	92262,836	97662,734	2580,362	PN
136	92587,924	97469,196	2583,813	BBCO
2420	92937,634	97319,926	2579,267	PN
237	92605,033	97371,151	2582,313	PN
3831	91927,382	98059,350	2580,862	PN
3477	92016,551	97905,502	2579,660	PN
1165	92336,136	97689,242	2580,356	PN
3283	92171,891	97922,921	2578,015	BBCO
3702	91966,947	98142,711	2577,112	PN
117	92430,240	97458,300	2583,001	BBCO
3472	92002,823	97880,217	2581,889	PN
2982	92202,146	97529,130	2577,762	BBCO
326	92226,963	97510,172	2577,769	PN
36	92311,109	97510,357	2577,680	LAM
2144	92965,852	96910,970	2581,174	PN
940	92657,647	97745,374	2581,157	CERRAM

PN	ESTE	NORTE	COTA	PD
1701	92756,477	97322,070	2579,400	BRIO
2082	92769,207	97876,288	2579,979	PN
1842	92809,168	97241,629	2577,130	PBCO
111	92508,775	97423,200	2578,333	BRIO
2261	92825,863	97166,235	2580,777	PN
1186	92998,077	97160,343	2579,112	BL_RIO
1924	92790,012	97170,867	2581,120	PN
2877	93042,330	97029,529	2585,450	PN
1539	92875,638	97589,287	2580,051	PN
1956	92809,206	97127,885	2582,113	CERRAM
435	92617,372	97519,810	2580,099	PN
1958	92676,454	97553,463	2584,709	CHKDELI
4278	92079,241	98002,958	2580,200	PN
3588	91953,325	97817,222	2583,811	PN
3897	91949,380	98039,060	2578,980	PN
1446	92337,726	97480,203	2580,848	PN
86	92406,917	97506,882	2580,041	HB
4000	91992,725	98025,755	2576,604	PN
3694	92010,680	98178,821	2582,639	PTE
3350	92138,791	97759,964	2576,903	PN
3073	92137,217	97563,124	2582,435	PN
693	92825,374	97889,470	2579,367	BORBCO
1933	92739,337	97210,487	2582,016	PN
24	92352,427	97582,497	2577,784	LAM
3555	91939,933	97935,823	2580,629	PN
1979	92732,046	97815,156	2578,658	PN
916	92950,927	97828,881	2581,467	PN
108	92481,276	97430,489	2578,151	BRIO

PN	ESTE	NORTE	COTA	PD
4069	92056,245	98075,115	2577,725	PN
2937	92967,085	97142,018	2581,018	PN
3600	91903,890	97839,843	2585,150	PN
2683	92936,970	96784,092	2580,640	PN
174	92507,401	97407,434	2582,781	PN
3518	91970,923	97846,355	2583,341	PN
1566	92962,814	97630,023	2581,893	PN
4018	92048,724	98002,906	2577,685	PN
3298	92194,461	97769,983	2578,194	PN
148	92606,825	97470,709	2583,486	PN
1668	92831,278	97312,798	2579,708	BRIO
403	92633,918	97522,992	2584,244	PN
3164	92219,988	97835,333	2579,010	BBCO
3471	92003,043	97884,804	2580,110	PN
3230	92167,770	97854,824	2576,354	PN
3248	92290,525	97770,888	2577,713	BBCO
2649	92906,287	96875,044	2581,923	PN
3425	92113,484	97738,380	2580,986	PN
1830	92791,224	97222,094	2583,660	PN
897	92977,871	97640,235	2581,238	CERCA
3034	92176,316	97493,960	2582,108	PN
4299	92158,502	98001,859	2580,638	CERRAM
3355	92137,575	97773,470	2576,453	PN
1497	92749,496	97502,623	2579,140	PN
2042	92857,523	97843,997	2581,100	PN
555	92627,837	97537,478	2578,337	BORRIO
2156	92890,865	96940,093	2581,338	PN
1504	92764,738	97528,596	2579,684	PN

PN	ESTE	NORTE	COTA	PD
2428	92940,111	97324,440	2582,231	PN
1475	92746,854	97534,175	2578,568	BRIO
2482	92884,836	97325,253	2579,975	PN
619	92672,164	97635,790	2578,404	PN
241	92648,396	97340,493	2582,478	PN
961	92355,910	97829,509	2580,526	PARED
2850	93031,902	96970,983	2586,326	PN
92	92391,338	97555,356	2580,699	HB
2670	92958,151	96882,559	2580,233	PN
1944	92653,129	97297,617	2582,320	CERRAM
2695	92957,059	96797,168	2579,933	PN
2243	92911,811	97140,226	2579,755	PN
1179	92389,734	97779,937	2580,706	PN
4465	92203,299	97625,386	2577,543	PN
3785	91967,798	98038,245	2576,854	BRIO
904	92990,616	97748,279	2582,140	PN
1403	92606,995	97655,189	2578,931	PN
1675	92794,315	97473,603	2578,585	LAMAGUA
1896	92727,503	97227,337	2582,033	PN
3351	92137,897	97760,052	2577,500	PN
164	92443,412	97454,328	2580,536	PN
17	92374,454	97559,030	2577,737	LAM
3727	91948,974	98074,483	2580,737	PN
3570	91989,348	97899,554	2579,919	PN
3039	92169,780	97477,948	2581,687	PN
203	92336,904	97435,032	2581,253	PN
2845	93026,356	96953,691	2586,108	PN
2552	92860,404	97320,051	2579,953	BBCO

PN	ESTE	NORTE	COTA	PD
3915	91979,476	98142,495	2580,447	PN
484	92674,614	97397,747	2583,452	PN
994	92280,557	97723,703	2580,012	PN
2021	92882,807	97763,214	2581,656	PN
3525	92030,959	97821,346	2581,041	PN
2237	92918,058	97150,505	2580,739	PN
2229	92978,741	97144,145	2581,441	PN
1380	92407,940	97586,164	2577,561	BRIIO
1926	92780,689	97200,798	2580,489	PN
1605	92842,462	97455,621	2582,092	PN
1629	92786,921	97409,274	2583,550	PN
984	92346,010	97776,779	2581,213	PN
568	92672,782	97578,242	2577,516	BORRIO
4249	92104,454	97887,577	2577,315	BRIIO
4257	92130,473	97853,974	2578,336	PN
1597	92855,703	97443,683	2582,358	PN
2598	92945,751	96769,296	2583,458	CERCA
571	92910,261	97648,227	2578,679	BORRIO
3862	91922,903	98196,975	2578,960	PN
956	92442,864	97746,554	2581,012	PARED
2768	92891,671	96965,567	2580,078	BRIIO
622	92686,638	97629,515	2579,393	PN
475	92687,018	97429,498	2583,415	PN
1953	92783,980	97153,992	2583,245	CERRAM
3673	91860,791	97926,185	2583,388	CERCA
3687	91933,273	98022,478	2580,501	PN
4209	92088,507	97851,547	2577,055	PN
3667	91845,396	97881,943	2583,988	CERCA

PN	ESTE	NORTE	COTA	PD
3356	92152,771	97805,677	2577,853	PN
3109	92118,047	97734,207	2580,725	PN
3961	92045,928	98138,350	2579,515	PN
2443	92806,907	97331,807	2580,298	PN
2348	92837,444	96994,418	2583,446	CERCA
552	92759,442	97573,931	2579,594	BORRIO
2653	92938,659	96902,877	2579,420	PN
1771	92762,488	97299,750	2580,291	PN
2372	92864,870	97302,486	2578,343	LANAGUA
1730	92716,676	97366,976	2579,429	PN
1307	92567,911	97498,802	2578,839	BBCO
2085	92759,091	97864,718	2579,432	PN
3637	91875,357	97894,188	2584,661	PN
3512	91950,703	97903,418	2582,737	PN
1149	92398,822	97666,255	2579,804	PN
1152	92387,556	97673,953	2580,268	PN
3095	92189,535	97665,942	2581,583	PN
2446	92809,182	97308,381	2579,699	BBARANCO
2341	92842,699	96933,081	2584,252	CERCA
2862	93025,498	96994,123	2583,097	PN
2225	92982,240	97119,868	2577,798	PN
1934	92747,242	97217,167	2581,952	PN
792	92878,100	97812,830	2578,150	LAMAGUA
3621	91921,637	97874,156	2584,415	PN
2354	92824,205	97060,750	2582,004	CERCA
1138	92466,224	97685,311	2580,358	PN
1168	92379,943	97702,650	2581,483	PN
2508	92931,992	97323,524	2578,384	PBCO

PN	ESTE	NORTE	COTA	PD
4422	92333,550	97616,633	2577,968	BRIO
844	92999,410	97736,860	2581,113	SARD
2633	92804,239	97572,047	2578,800	BL_RIO
1536	92866,403	97577,253	2580,505	PN
2712	92982,162	96868,174	2580,796	PN
3175	92197,147	97858,903	2579,011	BBCO
798	92833,850	97853,766	2578,512	LAMAGUA
2938	92986,124	97143,294	2581,552	PN
1281	92643,365	97593,772	2578,762	PN
3345	92151,946	97762,250	2578,459	PN
915	92971,777	97773,200	2582,017	PN
1824	92813,029	97197,764	2583,024	PN
4153	92055,921	97949,185	2577,018	PN
93	92401,117	97524,580	2579,776	HB
2123	92952,747	97027,957	2579,232	BL_RIO
4318	92210,950	97919,346	2577,810	PN
4318	92753,120	97552,824	2578,811	BL_RIO
4471	92999,990	97134,153	2579,432	BRIO
3397	92109,524	97798,633	2576,980	BRIO
2792	92931,671	97001,982	2580,205	PN
4032	92026,451	98094,618	2576,826	PN
1804	92829,761	97248,577	2577,501	PN
2500	92859,896	97354,433	2578,365	PBCO
2152	92884,599	96996,637	2579,254	BL_RIO
2500	92912,406	97159,655	2579,102	BL_RIO
4093	92087,007	97973,646	2578,246	BRIO
2071	92804,257	97885,422	2581,263	PN
1182	92421,029	97750,042	2580,948	PN

PN	ESTE	NORTE	COTA	PD
381	92281,246	97469,646	2582,265	PN
4080	92044,466	98133,906	2578,015	PN
2231	92989,419	97021,684	2579,235	BL_RIO
1222	92637,789	97715,963	2581,487	PN
6	92405,856	97490,165	2577,856	LAM
3513	91948,888	97876,995	2584,637	PN
2392	92929,458	97365,547	2581,390	CERCA
3120	92184,121	97701,422	2580,930	PN
2751	93000,140	96820,348	2579,078	BRIO
1589	92870,801	97470,635	2581,381	PN
3508	91929,260	97979,173	2581,214	PN
4159	92040,996	97938,885	2578,237	PN
375	92255,020	97476,321	2581,980	PN
3010	92189,627	97453,826	2581,779	BBCO
3450	92066,494	97827,710	2578,352	PN
3413	92111,593	97779,397	2576,552	PN
3529	92030,946	97804,950	2581,331	CERCA
1819	92824,746	97193,794	2580,693	PN
1186	92459,942	97725,875	2581,431	PN
1907	92788,462	97218,862	2583,055	PN
3701	91972,695	98137,513	2577,427	PN
1043	92283,477	97617,210	2579,605	.
3023	92193,241	97512,200	2581,660	BBCO
2986	92200,608	97538,646	2578,001	PBCO
1246	92632,210	97622,574	2578,799	PN
3139	92223,575	97741,046	2578,150	BBCO
2634	92894,892	96933,981	2581,588	PN
2199	92903,744	97060,436	2578,408	PN

PN	ESTE	NORTE	COTA	PD
2463	92933,262	97216,279	2580,240	PN
3069	92122,504	97550,767	2582,008	CERCA
829	92914,534	97842,145	2580,697	CERCA
1828	92802,878	97210,338	2583,312	PN
474	92688,869	97429,058	2582,572	PN
2366	92796,396	97305,891	2578,204	LANAGUA
3294	92261,159	97844,621	2578,181	PN
4447	92937,989	96941,539	2579,394	BRIO
2632	92883,794	96923,430	2581,362	PN
1720	92693,039	97398,439	2582,417	PN
2018	92868,363	97769,379	2581,563	BBCO
1028	92300,220	97672,553	2579,956	PN
2159	92860,381	96909,104	2582,492	PN
2600	93011,136	96781,813	2582,752	SARD
3921	91977,692	98156,410	2582,448	PN
3845	91900,295	98158,423	2580,681	PN
2346	92842,950	96974,653	2582,898	CERCA
2708	92976,368	96838,567	2581,259	PN
4451	92948,189	97794,820	2578,800	BRIO
2048	92866,062	97848,532	2579,385	BRIO
3795	92020,648	98141,620	2576,514	BRIO
3686	91933,365	98023,285	2580,706	PN
3779	92000,790	97979,535	2576,755	BRIO
168	92530,989	97406,856	2582,654	PN
258	92434,694	97393,070	2580,613	CERRAM
2735	92933,679	96925,341	2580,419	PN
1034	92255,902	97634,880	2580,407	PN
890	92867,300	97570,083	2580,541	CERCA

PN	ESTE	NORTE	COTA	PD
962	92908,483	96952,126	2579,274	BL_RIO
1954	92800,143	97136,093	2582,821	CERRAM
3216	92115,281	97941,829	2580,099	PN
309	92249,125	97424,912	2579,895	PN
806	92870,335	97651,136	2578,929	LAMAGUA
3400	91985,553	97977,087	2576,986	BRIO
2124	92968,755	97029,198	2580,396	BRIO
472	92682,974	97427,439	2583,681	PN
3002	92205,371	97664,654	2577,977	PBCO
864	92878,981	97459,087	2581,229	CERRAM
2312	92878,693	97115,612	2578,287	PN
854	92962,497	97599,225	2581,464	CERRAM
2822	92956,144	96960,236	2580,701	PN
3678	91893,981	97956,271	2582,447	CERCA
3479	92003,376	97935,884	2576,947	PN
425	92598,096	97470,275	2584,045	PN
2989	92188,676	97565,398	2578,947	PBCO
3791	91987,975	98091,162	2576,423	BRIO
3311	92220,668	97763,120	2577,007	FON
3551	92753,528	97356,235	2578,971	BL_RIO
3789	92082,099	98010,675	2580,704	CERRAM
3603	91870,612	97839,050	2585,113	PN
2709	92958,453	96772,011	2579,951	PN
4157	92071,173	97940,695	2577,515	PN
3970	92031,223	98132,404	2577,602	PN
1474	92751,377	97543,500	2578,884	BRIO
3220	92121,635	97923,010	2579,876	PN
3997	91985,857	98038,709	2577,869	PN



PN	ESTE	NORTE	COTA	PD
1872	92706,009	97334,616	2577,577	PBCO
2858	93002,431	96973,019	2585,682	PN
2956	92237,612	97598,748	2578,809	PN
2777	92980,836	96994,821	2580,274	PN
2145	92963,022	96920,690	2581,341	PN
3221	92121,634	97923,009	2579,876	PN
4393	92993,567	96934,627	2579,315	BRIIO
2294	92881,534	97060,483	2578,527	PN
3257	92239,463	97851,609	2577,248	BBCO
1333	92527,497	97434,569	2578,248	BRIIO
1949	92626,897	97330,946	2582,262	CERRAM
3799	91992,828	98184,992	2582,392	CERCA
4047	92047,614	98100,843	2576,901	PN
556	92781,874	97580,405	2579,831	BORRIO
4006	91995,875	98017,201	2576,759	PN
1513	92761,919	97500,447	2578,553	LAMAGUA
3376	92151,950	97812,198	2580,338	PN
3399	91922,182	97940,085	2583,477	DEL5
2157	92874,879	96915,614	2581,839	PN
2872	93017,110	96990,496	2583,229	PN
2270	92830,505	97137,118	2579,157	PN
461	92705,020	97493,873	2583,642	PN
766	92925,732	97701,498	2579,064	PBCO
58	92325,729	97572,297	2580,101	HB
395	92661,249	97544,137	2584,194	PN
1430	92797,307	97428,949	2583,893	PN
3481	91990,167	97943,846	2577,632	PN
3212	92127,352	97950,709	2578,401	PN

PN	ESTE	NORTE	COTA	PD
1518	92776,318	97543,847	2579,885	PN
3252	92286,830	97819,703	2577,820	BBCO
631	92680,575	97606,832	2579,192	PN
3821	91899,505	98140,786	2581,124	CERCA
3780	92079,744	98022,473	2580,460	CERRAM
3161	92244,783	97823,259	2577,576	PBCO
2274	92865,055	97139,777	2578,723	PN
3630	91849,047	97889,938	2584,594	PN
1006	92353,186	97764,450	2580,719	PN
749	92885,362	97637,285	2578,759	PBCO
1700	92762,661	97311,892	2578,599	BRIIO
4137	92068,802	97966,351	2578,341	PN
2707	92979,729	96776,958	2580,565	PN
3625	91896,036	97860,857	2584,940	PN
3692	92044,300	98165,504	2582,601	PTE
421	92659,104	97512,738	2583,621	PN
3959	92042,296	98153,401	2578,317	PN
1208	92579,880	97657,363	2580,296	PN
2458	92915,718	97255,341	2579,602	BBARANCO
3733	91936,857	98054,792	2580,500	PN
3974	92028,034	98122,392	2577,488	PN
142	92529,419	97418,730	2580,152	PN
2588	92874,784	96852,025	2584,536	CERCA
1369	92418,948	97571,304	2577,730	LAMAGUA
751	92903,351	97646,093	2579,026	PBCO
393	92662,944	97534,765	2583,491	PN
1056	92261,059	97519,058	2578,125	PN
4084	92046,441	98160,619	2577,608	PALETA

PN	ESTE	NORTE	COTA	PD
566	92854,245	97596,383	2578,854	BORRIO
817	92687,963	97627,125	2578,185	LAMAGUA
1389	92418,498	97620,498	2578,058	LAMAGUA
754	92934,805	97667,852	2579,114	PBCO
1379	92394,048	97604,798	2577,773	BRIO
4232	92130,746	97859,170	2577,163	PN
3407	92074,014	97826,344	2576,729	BRIO
3276	92203,863	97863,587	2577,345	BBCO
2104	92829,425	97195,228	2579,830	BRIO
2857	93033,572	96989,226	2586,066	PN
920	92954,768	97793,761	2581,738	PN
2533	92910,068	97321,988	2578,674	PBCO
4117	92035,597	98000,362	2577,056	PN
3146	92235,977	97795,291	2577,048	PN
65	92335,370	97586,342	2581,886	HB
130	92578,288	97466,068	2579,414	PBCO
1488	92738,474	97443,028	2579,661	PN
1785	92833,749	97273,161	2579,899	PN
2045	92835,722	97881,575	2579,299	BRIO
3804	91931,366	98208,861	2582,797	CERCA
1346	92431,023	97505,556	2577,622	BRIO
2606	92908,152	96774,064	2582,130	PN
1976	92777,010	97298,193	2579,012	BL_RIO
2301	92889,447	97104,745	2578,544	PN
1577	92893,605	97580,989	2580,997	PN
1546	92935,511	97628,617	2578,677	PN
2202	92910,503	97068,358	2578,518	PN

PN	ESTE	NORTE	COTA	PD
1891	92730,721	97280,605	2583,696	PN
891	92874,298	97583,647	2580,557	CERCA
2848	93014,795	96950,034	2584,030	PN
159	92558,591	97426,562	2582,552	PN
4182	92078,489	97923,224	2578,001	PN
1012	92407,739	97760,501	2580,870	PN
1711	92697,534	97423,210	2579,480	BRIO
1888	92738,307	97283,795	2584,271	PN
2409	92947,227	97333,004	2584,817	PN
1082	92291,873	97627,743	2580,133	PN
3197	92152,853	97960,219	2579,429	PN
1381	92386,652	97612,700	2577,899	BRIO
3876	91939,519	98135,355	2578,859	PN
470	92695,173	97449,988	2582,901	PN
2703	92974,453	96779,549	2581,048	PN
1749	92760,517	97309,221	2578,827	PN
1808	92821,107	97214,959	2579,100	PN
1653	92785,390	97386,149	2580,984	PN
1806	92820,820	97226,547	2577,504	PN
2641	92921,674	96926,766	2580,782	PN
4065	92066,795	98061,491	2580,120	PN
3547	91936,037	97915,744	2583,877	PN
3848	91899,350	98142,636	2580,713	PN
4250	92098,727	97894,827	2577,294	BRIO
3484	91983,133	97955,309	2578,206	PN
1263	92563,558	97618,080	2577,788	LAMAGUA
2959	92200,608	97640,701	2577,545	PN

### 3. SECCIONES TRANSVERSALES

ABS	DIS_EJE	COTA
0	-150	2579,984
0	-147,748	2579,865
0	-145,53	2579,378
0	-140,168	2578,954
0	-136,845	2579,235
0	-136,824	2579,235
0	-136,769	2579,235
0	-129,978	2579,235
0	-128,763	2579,435
0	-125,071	2579,937
0	-119,597	2581,277
0	-118,637	2581,379
0	-107,788	2581,241
0	-98,7971	2581,176
0	-96,6268	2581,146
0	-94,5411	2581,109
0	-83,5523	2579,879
0	-77,3816	2579,517
0	-76,2195	2579,175
0	-71,5016	2579,464
0	-70,8798	2579,499
0	-60,8467	2579,293
0	-59,6518	2579,232
0	-56,1989	2579,222
0	-51,2975	2579,176
0	-48,59	2579,205

ABS	DIS_EJE	COTA
0	-44,1597	2579,007
0	-41,0691	2579,009
0	-38,4976	2579,075
0	-30,9277	2579,809
0	-30,586	2579,833
0	-22,7729	2580,683
0	-18,9396	2581,299
0	-16,1383	2581,642
0	-13,3057	2580,441
0	-3,48586	2579,309
0	-2,04547	2579,286
0	-1,54462	2579,284
0	0	2579,263
0	0,12417	2579,261
0	9,086032	2579,11
0	11,99076	2579,11
0	16,62031	2579,11
0	19,22013	2579,39
0	19,49008	2579,432
0	20,36542	2579,973
0	28,19244	2586,143
0	30,09148	2586,236
0	31,74535	2586,266
0	35,71694	2585,262
0	36,51806	2585,073
0	38,93934	2585,08

ABS	DIS_EJE	COTA
20	-150	2580,209
20	-147,204	2580,097
20	-144,315	2579,981
20	-143,466	2579,889
20	-140,992	2579,449
20	-138,48	2579,196
20	-138,22	2579,082
20	-137,596	2579,105
20	-136,602	2579,154
20	-134,868	2579,233
20	-130,029	2579,233
20	-128,153	2579,233
20	-124,398	2580,2
20	-123,75	2580,349
20	-123,683	2580,388
20	-122,286	2580,506
20	-113,302	2581,173
20	-108,183	2580,082
20	-107,089	2579,922
20	-105,386	2579,701
20	-100,702	2579,106
20	-98,594	2579,108
20	-86,6409	2578,778
20	-76,9911	2578,293
20	-74,9483	2578,159
20	-66,2955	2577,919

ABS	DIS_EJE	COTA
20	-58,2212	2578,134
20	-52,3804	2578,158
20	-47,7955	2578,122
20	-40,5924	2578,045
20	-35,2305	2577,979
20	-28,2968	2578,053
20	-23,9067	2578,076
20	-20,7939	2578,451
20	-18,3428	2578,919
20	-15,791	2579,42
20	-9,56069	2581,254
20	-5,75511	2581,263
20	0	2580,404
20	1,490745	2580,181
20	3,707893	2579,643
20	7,008035	2579,252
20	7,820346	2579,106
20	9,570373	2579,106
20	17,78741	2579,106
20	18,42149	2579,134
20	23,19622	2579,432
20	25,75568	2581,388
20	31,86801	2586,017
20	33,63515	2586,049
20	37,06214	2585,514
20	39,3225	2584,981
20	59,54407	2585,043
40	-150	2580,482

ABS	DIS_EJE	COTA
40	-149,799	2580,53
40	-148,811	2580,441
40	-139,56	2579,817
40	-137,904	2579,538
40	-136,92	2579,107
40	-134,99	2579,177
40	-134,029	2579,232
40	-132,219	2579,232
40	-126,298	2579,232
40	-125,33	2579,429
40	-124,11	2580,132
40	-120,072	2580,472
40	-113,511	2579,458
40	-107,197	2579,05
40	-91,2861	2579,04
40	-79,6047	2578,889
40	-75,0915	2578,746
40	-72,8689	2578,605
40	-65,7353	2578,584
40	-54,3901	2578,378
40	-43,0462	2578,264
40	-29,9792	2579,125
40	-21,7094	2578,941
40	-15,1716	2580
40	-11,191	2581,33
40	-3,39942	2580,809
40	-3,11942	2580,797
40	-2,13323	2580,628

ABS	DIS_EJE	COTA
40	0	2580,255
40	3,90669	2579,571
40	4,99744	2579,358
40	6,426407	2579,104
40	14,77087	2579,104
40	17,16136	2579,104
40	18,57722	2579,166
40	25,21348	2579,432
40	40,63699	2585,201
40	42,01263	2585,923
40	44,04552	2586,033
40	46,76339	2586,159
40	52,12083	2586,255
40	56,56661	2585,797
40	68,99839	2584,972
40	80,1488	2585,006
40	128,3151	2586,327
40	128,3255	2586,325
40	128,3334	2586,323
40	144,6883	2585,117
40	145,4853	2585,301
40	150	2585,405
60	-150	2580,07
60	-146,93	2579,956
60	-146,422	2579,909
60	-139,798	2579,138
60	-138,687	2579,235
60	-136,184	2579,235

ABS	DIS_EJE	COTA
60	-131,035	2579,234
60	-129,241	2579,599
60	-127,39	2580,014
60	-120,852	2580,964
60	-120,083	2581,062
60	-119,775	2581,018
60	-114,707	2579,657
60	-113,508	2579,157
60	-112,651	2579,102
60	-112,279	2579,102
60	-111,517	2579,092
60	-83,1854	2578,706
60	-75,9212	2578,723
60	-71,1722	2578,688
60	-59,5148	2578,476
60	-54,0701	2578,422
60	-18,4328	2580,771
60	-17,5424	2580,82
60	-11,8372	2580,953
60	-11,5034	2581,085
60	-10,3719	2581,054
60	-6,75238	2580,546
60	-2,46153	2580,374
60	0	2579,909
60	1,854914	2579,558
60	3,924523	2579,33
60	6,189648	2579,103
60	9,037408	2579,103

ABS	DIS_EJE	COTA
60	15,89375	2579,103
60	18,95578	2579,199
60	25,08123	2579,432
60	28,71874	2579,827
60	40,22397	2583,164
60	52,72793	2581,501
60	58,62687	2581,338
60	62,58629	2582,1
60	68,85267	2582,542
60	74,09447	2582,059
60	85,36002	2584,491
60	91,20032	2585,356
60	92,64566	2585,509
60	101,0969	2584,756
60	103,9339	2584,768
60	108,4498	2583,741
60	114,4343	2582,775
60	117,3741	2581,748
60	118,7929	2581,586
60	123,3409	2581,368
60	123,6254	2581,491
60	128,6682	2581,279
60	132,4828	2580,158
60	136,9857	2579,016
60	138,3177	2578,565
60	145,5986	2578,624
60	148,8551	2578,672
60	150	2578,64

ABS	DIS_EJE	COTA
80	-150	2579,261
80	-149,758	2579,243
80	-141,99	2579,242
80	-141,626	2579,242
80	-141,545	2579,258
80	-137,286	2580,09
80	-132,172	2580,67
80	-129,307	2580,994
80	-127,336	2580,881
80	-123,786	2580,389
80	-119,815	2579,307
80	-119,704	2579,273
80	-119,186	2579,254
80	-118,219	2579,214
80	-102,842	2578,572
80	-94,7651	2578,539
80	-93,23	2578,537
80	-88,0959	2578,508
80	-87,0295	2578,459
80	-86,686	2578,496
80	-81,4288	2578,521
80	-79,9562	2578,433
80	-75,7677	2578,618
80	-72,3372	2578,508
80	-64,5776	2578,48
80	-63,2621	2578,652
80	-60,9366	2578,782
80	-15,2362	2579,842

ABS	DIS_EJE	COTA
80	-14,6382	2580,08
80	-12,6503	2580,946
80	-10,1604	2580,878
80	-5,44753	2580,76
80	-3,03102	2580,268
80	-0,05045	2579,622
80	0	2579,615
80	3,617249	2579,156
80	4,172412	2579,102
80	10,41768	2579,102
80	12,33073	2579,102
80	22,83909	2579,33
80	26,14145	2579,432
80	30,54058	2579,958
80	33,54708	2580,553
80	51,27149	2579,634
80	56,24895	2579,372
80	56,69127	2579,457
80	57,30362	2579,532
80	59,30745	2579,544
80	86,74675	2580,006
80	91,91701	2579,478
80	92,3797	2579,518
80	98,17516	2580,1
80	101,4788	2580,115
80	106,1978	2579,396
80	107,5628	2579,214
80	110,9349	2579,099

ABS	DIS_EJE	COTA
80	114,9604	2579,264
80	115,4722	2579,438
80	121,0571	2579,678
80	124,7863	2578,914
80	126,8154	2578,717
80	127,4191	2578,654
80	128,3216	2578,69
80	142,7528	2578,79
80	150	2578,849
100	-150	2580,425
100	-143,712	2580,218
100	-141,575	2580,502
100	-138,803	2580,362
100	-136,257	2580,094
100	-128,339	2579,843
100	-126,744	2579,254
100	-121,221	2578,883
100	-113,217	2578,638
100	-104,586	2578,403
100	-104,442	2578,401
100	-104,398	2578,401
100	-91,5849	2578,824
100	-90,8799	2578,816
100	-77,9496	2578,734
100	-75,3803	2578,765
100	-70,9719	2578,721
100	-66,8364	2578,53
100	-63,2273	2578,532

ABS	DIS_EJE	COTA
100	-53,7444	2578,501
100	-53,1197	2578,56
100	-43,3915	2578,579
100	-36,4457	2578,738
100	-17,1679	2579,321
100	-16,5847	2579,577
100	-14,7534	2579,599
100	-11,999	2580,927
100	-6,20728	2580,691
100	-4,47222	2580,337
100	-0,89043	2579,633
100	0	2579,373
100	0,432934	2579,247
100	0,9681	2579,1
100	6,910981	2579,1
100	11,31603	2579,1
100	25,53153	2580,224
100	26,96899	2580,443
100	30,0489	2580,5
100	48,21264	2579,939
100	57,94461	2579,704
100	60,98959	2579,701
100	64,21095	2579,603
100	67,53129	2579,624
100	81,24524	2579,268
100	81,59067	2579,307
100	87,57795	2579,247
100	92,14737	2579,509

ABS	DIS_EJE	COTA
100	94,98147	2579,435
100	96,14977	2579,394
100	103,4746	2579,525
100	117,8449	2580,048
100	118,4564	2580,043
100	133,3904	2578,981
100	139,12	2578,809
100	139,4084	2578,668
100	143,7513	2578,933
100	144,8102	2578,895
100	145,1243	2579,051
100	146,8867	2578,987
100	148,3238	2578,987
100	150	2578,909
120	-150	2580,776
120	-149,722	2580,782
120	-148,186	2580,613
120	-142,546	2579,906
120	-131,85	2579,121
120	-131,125	2579,09
120	-130,173	2579,023
120	-129,333	2579,009
120	-111,152	2578,788
120	-109,812	2578,74
120	-102,286	2578,831
120	-96,9525	2578,766
120	-85,5512	2578,639
120	-76,6166	2578,538

ABS	DIS_EJE	COTA
120	-73,2847	2578,539
120	-70,6375	2578,488
120	-69,6667	2578,568
120	-65,9508	2578,565
120	-55,6171	2578,253
120	-52,3405	2578,24
120	-50,9756	2578,156
120	-43,4159	2578,135
120	-40,0731	2578,12
120	-34,45	2578,218
120	-23,6125	2578,754
120	-18,2327	2579,003
120	-15,014	2580,384
120	-14,5732	2580,496
120	-7,75074	2580,448
120	-7,51	2580,433
120	-6,00987	2580,231
120	-1,62426	2579,631
120	-1,37881	2579,623
120	-1,32145	2579,616
120	0	2579,367
120	1,432074	2579,098
120	10,45073	2579,098
120	11,32081	2579,098
120	11,97356	2579,378
120	13,35709	2579,863
120	14,31915	2579,863
120	27,0876	2580,178

ABS	DIS_EJE	COTA
120	29,89882	2580,237
120	34,53673	2580,128
120	59,36773	2579,77
120	63,88946	2579,807
120	68,39621	2579,744
120	77,9282	2580,029
120	80,78961	2579,983
120	88,87763	2580,507
120	89,73524	2580,526
120	90,48907	2580,506
120	91,13764	2580,471
120	98,57997	2580,415
120	100,3028	2580,334
120	105,8156	2579,667
120	114,9954	2578,938
120	115,1588	2579,838
120	117,9015	2579,711
120	141,2482	2578,773
120	147,4985	2578,912
120	150	2578,695
140	-105,411	2581,807
140	-104,92	2581,79
140	-103,321	2582,759
140	-103,099	2582,759
140	-102,647	2582,731
140	-101,742	2582,677
140	-100,542	2582,699
140	-94,6325	2582,222



ABS	DIS_EJE	COTA
140	-90,7465	2582,41
140	-87,1979	2581,403
140	-82,2429	2580,796
140	-75,5879	2580,836
140	-72,8887	2580,773
140	-60,8905	2580,153
140	-50,2505	2579,71
140	-47,7156	2579,399
140	-45,7392	2578,947
140	-37,4718	2578,466
140	-34,8254	2578,617
140	-31,3281	2578,698
140	-25,0241	2578,839
140	-13,377	2579,744
140	-13,2658	2579,751
140	-12,2394	2579,888
140	-9,4228	2580,266
140	-9,25897	2580,281
140	-2,12976	2579,58
140	-1,39025	2579,453
140	0	2579,416
140	0,467615	2579,403
140	1,798285	2579,232
140	4,048487	2579,097
140	10,04317	2579,097
140	11,6868	2579,097
140	12,35221	2579,449
140	13,69361	2579,863

ABS	DIS_EJE	COTA
140	14,0097	2579,863
140	20,36308	2580,015
140	30,50502	2580,237
140	32,31286	2580,237
140	34,50526	2580,237
140	63,7315	2579,631
140	66,85373	2579,618
140	69,16365	2579,565
140	72,51023	2579,634
140	82,1371	2579,267
140	83,39257	2579,319
140	89,29738	2579,09
140	90,96056	2579,101
140	92,24983	2579,182
140	99,8582	2579,387
140	101,2608	2579,412
140	112,7991	2579,948
140	125,9636	2579,796
140	132,1753	2579,253
140	135,248	2579,016
140	138,2268	2578,662
140	142,2749	2578,843
140	150	2578,8
160	-68,1203	2582,659
160	-62,7163	2582,926
160	-56,2529	2583,341
160	-55,5898	2583,307
160	-50,7029	2581,256

ABS	DIS_EJE	COTA
160	-49,4658	2581,062
160	-40,8651	2581,008
160	-38,5395	2580,815
160	-32,648	2580,799
160	-28,0689	2580,611
160	-18,2253	2580,763
160	-17,3883	2580,747
160	-15,8253	2580,811
160	-15,4548	2580,872
160	-12,6879	2580,555
160	-1,77895	2579,818
160	-0,79594	2579,541
160	-0,59155	2579,216
160	0	2578,844
160	0,459419	2578,556
160	1,594673	2579,092
160	5,31401	2579,092
160	8,294739	2579,093
160	10,11296	2579,718
160	11,04148	2579,863
160	19,85985	2580,065
160	25,98621	2580,196
160	28,32356	2580,237
160	32,03827	2580,237
160	35,20388	2580,237
160	52,009	2579,835
160	61,66345	2579,707
160	69,82054	2579,69

ABS	DIS_EJE	COTA
160	71,21313	2579,738
160	76,14955	2579,55
160	91,47731	2579,508
160	107,9138	2580,645
160	108,0576	2580,637
160	108,3491	2580,7
160	112,0356	2582,013
160	122,2958	2585,606
160	124,4807	2585,835
160	125,2728	2586,183
160	127,9112	2586,331
160	130,5589	2585,342
160	134,2899	2585,427
160	136,5663	2585,426
160	138,1885	2585,368
180	-76,3401	2583,019
180	-75,4044	2582,914
180	-72,7262	2582,885
180	-63,8147	2582,172
180	-60,7207	2581,805
180	-58,2934	2581,694
180	-42,9371	2580,479
180	-41,2637	2580,385
180	-37,0638	2580,567
180	-29,8489	2580,858
180	-24,4561	2581,744
180	-16,9077	2582,797
180	-10,1989	2581,066

ABS	DIS_EJE	COTA
180	-10,0431	2581,052
180	-9,83451	2581,013
180	-6,77974	2580,546
180	-2,6479	2579,813
180	0	2579,377
180	0,35573	2579,318
180	0,749961	2578,81
180	1,586712	2579,083
180	3,485297	2579,083
180	8,248039	2579,082
180	8,925835	2579,324
180	10,8788	2579,863
180	19,07384	2580,081
180	26,63254	2580,237
180	28,96361	2580,237
180	34,60574	2580,237
180	46,64856	2579,982
180	56,82479	2579,959
180	61,93013	2580,021
180	66,45096	2580,141
180	72,62306	2580,185
180	81,72275	2579,91
180	85,44889	2579,832
180	93,80355	2579,634
180	109,1063	2582,748
180	113,7999	2583,973
180	118,3938	2586,089
180	120,0322	2586,07

ABS	DIS_EJE	COTA
180	124,1849	2586,252
180	126,981	2585,657
180	131,3203	2584,959
180	147,4388	2585,047
200	-150	2582,445
200	-144,362	2582,421
200	-138,76	2582,261
200	-134,384	2582,335
200	-112,288	2582,383
200	-110,027	2582,334
200	-107,093	2582,412
200	-89,7862	2582,276
200	-85,3519	2582,198
200	-78,4613	2583,223
200	-68,8856	2583,941
200	-63,1646	2583,92
200	-56,7668	2584,007
200	-53,8532	2583,112
200	-46,4533	2580,703
200	-43,1758	2580,598
200	-38,7293	2580,57
200	-34,1477	2580,32
200	-28,3991	2580,047
200	-25,0997	2580,194
200	-20,2636	2579,452
200	-19,6405	2579,661
200	-16,3133	2579,034
200	-13,6122	2579,719

ABS	DIS_EJE	COTA
200	-12,3589	2579,535
200	-8,71416	2580,413
200	-4,68567	2580,207
200	-0,85442	2579,912
200	-0,56449	2579,909
200	0	2579,757
200	0,094097	2579,732
200	2,715013	2579,074
200	7,809972	2579,074
200	10,24861	2579,074
200	10,87497	2579,442
200	11,41808	2579,863
200	17,96197	2580,073
200	24,38723	2580,237
200	31,46224	2580,237
200	45,54514	2580,052
200	57,27941	2580,161
200	58,45742	2580,189
200	67,15013	2580,54
200	68,58872	2580,571
200	74,63645	2579,961
200	80,81178	2579,42
200	81,32299	2579,416
200	82,9558	2579,398
200	98,33371	2579,287
200	110,1674	2579,103
200	111,3902	2579,103
200	120,6001	2579,103

ABS	DIS_EJE	COTA
200	125,8958	2579,104
200	138,4562	2579,104
200	138,7873	2579,104
200	139,1532	2579,104
200	145,1877	2579,587
200	148,2436	2579,675
200	150	2579,812
220	-150	2582,635
220	-137,174	2582,683
220	-131,518	2582,685
220	-126,022	2582,845
220	-121,105	2582,909
220	-115,582	2582,944
220	-112,025	2583,534
220	-111,405	2583,821
220	-106,576	2583,976
220	-103,6	2584,122
220	-94,9487	2584,116
220	-93,1412	2583,939
220	-90,1459	2584,086
220	-89,5198	2584,22
220	-79,9341	2584,379
220	-75,3048	2584,075
220	-67,1635	2583,169
220	-65,3292	2580,531
220	-62,5051	2580,543
220	-58,599	2580,756
220	-50,8933	2579,313

ABS	DIS_EJE	COTA
220	-47,5093	2578,38
220	-40,8985	2577,498
220	-35,55	2577,122
220	-32,7335	2577,204
220	-19,4091	2577,458
220	-18,346	2577,741
220	-13,5785	2578,944
220	-6,71954	2580,37
220	-6,34704	2580,647
220	-5,40117	2580,65
220	-5,12943	2580,648
220	-4,88044	2580,58
220	0	2579,404
220	1,414538	2579,063
220	8,742379	2579,063
220	9,349321	2579,063
220	9,432598	2579,125
220	11,30611	2579,858
220	19,09899	2580,157
220	20,92992	2580,175
220	26,58689	2580,059
220	36,49638	2579,76
220	46,28753	2579,63
220	50,1924	2579,666
220	59,04098	2579,872
220	60,07434	2579,914
220	62,50442	2579,966
220	75,7322	2579,91

ABS	DIS_EJE	COTA
220	80,22576	2579,932
220	86,442	2579,95
220	97,42589	2582,796
220	112,7398	2582,237
220	114,5233	2582,614
220	129,8535	2580,751
220	132,2767	2580,82
220	132,9107	2581,427
220	143,807	2580,386
220	145,9987	2580,167
220	150	2579,631
240	-150	2583,075
240	-146,038	2583,087
240	-137,61	2581,303
240	-130,731	2583,473
240	-129,212	2583,049
240	-125,491	2582,013
240	-118,826	2579,777
240	-110,028	2578,246
240	-107,528	2578,004
240	-102,705	2578,046
240	-94,9933	2578,211
240	-84,7259	2578,934
240	-82,0349	2579,072
240	-80,5002	2579,093
240	-71,0281	2578,843
240	-63,0983	2578,09
240	-62,7971	2578,117

ABS	DIS_EJE	COTA
240	-62,5515	2578,114
240	-60,5219	2577,95
240	-47,0844	2577,374
240	-34,1693	2577,2
240	-32,2691	2577,067
240	-28,0942	2577,188
240	-13,8538	2579,889
240	-11,4262	2580,517
240	-10,5595	2581,074
240	-9,27144	2580,994
240	-5,65581	2580,897
240	-0,41833	2579,65
240	0	2579,559
240	1,631791	2579,205
240	3,462659	2579,05
240	8,90024	2579,05
240	11,13725	2579,05
240	12,05398	2579,213
240	13,14131	2579,631
240	20,73512	2580,148
240	24,35743	2580,202
240	25,35554	2580,229
240	29,59005	2579,955
240	44,64628	2579,196
240	45,6987	2579,246
240	53,85694	2579,629
240	68,48297	2579,479
240	74,56647	2579,874

ABS	DIS_EJE	COTA
240	80,69557	2580,431
240	88,13111	2580,218
240	88,42294	2580,197
240	89,39227	2580,452
240	105,7723	2586,139
240	108,5299	2586,093
240	113,3442	2586,253
240	118,0519	2585,53
240	122,7833	2584,955
240	150	2585,057
260	-150	2577,883
260	-149,872	2577,88
260	-141,334	2577,794
260	-137,788	2577,879
260	-131,053	2577,917
260	-121,765	2577,946
260	-118,422	2577,964
260	-115,114	2577,993
260	-114,873	2577,991
260	-112,848	2578,956
260	-110,337	2579,929
260	-107,166	2579,185
260	-105,319	2578,897
260	-105,288	2578,897
260	-101,378	2579,044
260	-99,3798	2579,018
260	-99,1634	2578,968
260	-98,8538	2579,006

ABS	DIS_EJE	COTA
260	-88,8226	2579,011
260	-86,9754	2579,012
260	-76,9988	2579,014
260	-75,188	2579,014
260	-72,055	2579,014
260	-66,3519	2579,191
260	-64,1756	2579,156
260	-57,7549	2579,419
260	-52,6658	2579,643
260	-46,3762	2579,95
260	-43,2559	2580,255
260	-33,8584	2581,453
260	-33,4811	2581,546
260	-33,2796	2581,596
260	-30,8238	2581,5
260	-26,947	2581,374
260	-24,6527	2583,104
260	-22,1686	2581,251
260	-14,2733	2582,194
260	-12,6383	2582,912
260	-11,4639	2583,226
260	-7,41855	2580,727
260	-0,24511	2579,578
260	0	2579,538
260	3,110323	2579,028
260	3,964689	2579,029
260	4,095804	2579,035
260	4,507602	2579,035

ABS	DIS_EJE	COTA
260	12,27086	2579,035
260	12,72633	2579,086
260	16,10791	2579,508
260	23,78843	2580,298
260	25,9461	2580,713
260	26,02352	2580,722
260	41,73036	2579,34
260	42,17804	2579,304
260	42,37625	2579,317
260	43,7282	2579,496
260	45,21235	2579,69
260	50,82449	2579,728
260	56,96007	2579,758
260	57,40789	2579,745
260	57,84032	2579,723
260	59,16515	2579,624
260	70,50463	2580,157
260	74,72478	2580,859
260	77,45763	2581,719
260	84,83625	2583,646
260	89,82123	2583,12
260	95,98162	2585,623
260	98,71614	2585,62
260	104,0132	2584,977
260	116,3163	2585,023
280	-150	2581,999
280	-145,261	2582,027
280	-141,298	2582,002

ABS	DIS_EJE	COTA
280	-133,4	2582,152
280	-124,961	2581,539
280	-117,039	2581,664
280	-112,449	2581,971
280	-109,786	2582,578
280	-102,477	2584,015
280	-99,1057	2584,129
280	-93,6279	2584,962
280	-90,4934	2583,667
280	-87,9401	2582,573
280	-83,9757	2582,034
280	-82,7029	2581,793
280	-82,5025	2581,17
280	-82,1759	2581,126
280	-81,0307	2581,059
280	-68,7047	2577,919
280	-63,3682	2577,639
280	-47,6624	2577,14
280	-45,9819	2577,766
280	-43,0214	2578,795
280	-37,2201	2579,3
280	-30,7892	2579,816
280	-30,5483	2579,944
280	-30,1978	2580,007
280	-19,7483	2582,686
280	-19,3145	2582,982
280	-18,1508	2582,654
280	-12,8669	2582,159

ABS	DIS_EJE	COTA
280	-12,3104	2581,863
280	-8,96102	2580,297
280	-7,75284	2580,048
280	-3,14581	2579,21
280	-1,53613	2579,167
280	0	2579,096
280	1,662571	2579,019
280	3,657504	2579,018
280	7,806338	2579,019
280	9,54441	2579,608
280	11,01677	2579,533
280	20,83088	2578,805
280	26,77084	2579,088
280	33,70791	2578,965
280	36,87173	2578,863
280	38,17363	2578,806
280	39,48823	2578,816
280	43,14233	2578,933
280	45,21433	2578,875
280	45,48627	2578,874
280	49,39745	2578,88
280	51,37215	2578,726
280	51,59749	2578,723
280	51,89676	2578,704
280	52,31844	2578,688
280	60,3053	2578,858
280	66,47094	2578,612
280	76,67847	2578,477

ABS	DIS_EJE	COTA
280	77,7258	2578,436
280	79,96174	2578,406
280	80,29799	2578,555
280	82,64814	2579,895
280	86,85421	2582,196
280	91,21918	2583,224
280	97,99719	2585,133
280	101,0003	2585,337
280	103,2751	2585,312
280	111,1181	2585,214
280	113,2079	2584,701
300	-150	2579,39
300	-148,192	2579,587
300	-144,914	2579,953
300	-142,464	2580,189
300	-138,05	2579,8
300	-135,99	2579,524
300	-132,559	2579,418
300	-130,968	2579,217
300	-128,592	2579,096
300	-123,739	2579,096
300	-120,048	2579,096
300	-118,909	2579,631
300	-117,975	2579,863
300	-109,846	2580,013
300	-103,535	2580,078
300	-97,9595	2580,122
300	-94,4083	2580,109

ABS	DIS_EJE	COTA
300	-88,145	2580,081
300	-81,4536	2580,001
300	-78,1537	2579,959
300	-73,5595	2579,861
300	-71,339	2579,385
300	-70,4628	2579,065
300	-67,6274	2579,064
300	-64,2613	2579,062
300	-55,6422	2579,057
300	-50,0798	2579,939
300	-47,4574	2580,059
300	-38,6051	2580,592
300	-35,2503	2580,868
300	-34,8701	2580,848
300	-32,4867	2580,917
300	-22,9213	2581,9
300	-21,9357	2582,303
300	-18,1245	2583,31
300	-15,2976	2582,604
300	-13,1913	2582,583
300	-7,30939	2580,519
300	-7,28392	2580,513
300	-0,54916	2580,259
300	0	2580,029
300	1,25877	2579,502
300	2,422381	2579,262
300	2,947776	2579,253
300	4,567904	2579,009

ABS	DIS_EJE	COTA
300	9,332385	2579,009
300	12,84179	2579,009
300	13,94157	2579,625
300	15,21671	2579,887
300	23,30334	2579,972
300	28,60023	2579,988
300	32,23626	2580,006
300	36,33846	2579,264
300	37,94334	2578,946
300	48,49525	2578,359
300	53,24552	2578,308
300	55,03183	2579,236
300	56,3337	2580,013
300	60,12942	2580,438
300	64,24416	2580,65
300	70,93451	2582,629
300	71,64485	2582,854
300	72,74277	2583,31
300	78,45459	2583,51
300	80,77238	2583,621
300	81,83661	2583,588
300	100,1728	2583,326
300	105,8048	2583,245
300	111,6345	2582,58
300	115,5311	2582,416
300	126,2913	2583,209
300	129,6963	2583,3
300	130,4774	2583,741

ABS	DIS_EJE	COTA
300	137,2662	2583,992
300	143,9407	2584,249
300	147,0168	2583,933
300	149,1233	2583,912
300	150	2583,8
320	-150	2579,201
320	-148,391	2579,348
320	-139,221	2580,054
320	-136,133	2580,315
320	-135,226	2580,345
320	-125,817	2580,943
320	-120,085	2579,884
320	-116,793	2580,463
320	-112,503	2579,67
320	-112,128	2578,636
320	-111,281	2578,656
320	-99,4566	2578,8
320	-97,4483	2579,233
320	-94,57	2579,194
320	-87,8953	2579,847
320	-82,7097	2580,007
320	-80,7961	2580,055
320	-76,8674	2580,222
320	-71,6103	2580,392
320	-66,3765	2579,498
320	-61,0038	2579,022
320	-60,4771	2579,305
320	-60,154	2578,945

ABS	DIS_EJE	COTA
320	-59,2266	2578,869
320	-52,1516	2578,132
320	-46,5913	2577,489
320	-44,0063	2577,476
320	-38,9768	2577,375
320	-28,7379	2577,865
320	-25,7853	2577,374
320	-21,8576	2579,621
320	-20,8558	2580,179
320	-17,6698	2580,383
320	-13,9417	2580,372
320	-11,1505	2581,265
320	-9,0157	2580,918
320	-7,68235	2580,9
320	-6,56263	2580,545
320	-0,24332	2579,421
320	0	2579,382
320	4,54121	2578,66
320	4,690475	2578,687
320	5,774484	2579,008
320	6,213474	2579,008
320	14,09422	2579,008
320	14,56863	2579,116
320	17,67217	2579,834
320	17,79369	2579,752
320	18,65602	2579,619
320	21,58336	2579,666
320	32,63604	2579,791



ABS	DIS_EJE	COTA
320	40,06463	2580,161
320	45,65302	2579,953
320	45,88872	2579,959
320	47,30173	2580,1
320	53,9943	2580,766
320	55,42428	2580,854
320	58,47389	2581,066
320	74,88527	2583,084
320	76,48914	2584
320	77,51521	2584,068
320	84,8177	2584,144
320	92,13192	2584,189
320	94,15246	2584,128
320	97,59954	2584,088
320	108,0623	2583,902
320	113,0183	2583,931
320	123,5676	2583,935
320	128,7102	2584,109
320	132,2704	2584,146
320	132,6642	2584,146
320	146,7894	2583,526
320	149,342	2583,473
320	150	2583,415
340	-150	2580,835
340	-148,637	2580,198
340	-144,521	2580,635
340	-143,618	2580,659
340	-135,709	2580,751

ABS	DIS_EJE	COTA
340	-131,956	2580,6
340	-124,24	2580,556
340	-118,014	2580,68
340	-115,815	2580,705
340	-113,929	2580,776
340	-106,325	2581,772
340	-103,475	2582,018
340	-97,7899	2582,703
340	-96,874	2582,373
340	-93,1263	2582,982
340	-92,7001	2582,997
340	-92,5528	2583,023
340	-87,8338	2581,163
340	-81,0072	2580,656
340	-80,5501	2580,628
340	-80,1599	2580,633
340	-71,7606	2580,488
340	-65,6597	2579,937
340	-64,4606	2579,918
340	-62,1105	2579,919
340	-54,1113	2578,3
340	-52,6308	2577,983
340	-48,5743	2577,239
340	-48,4327	2577,177
340	-48,1921	2577,17
340	-35,9212	2577,661
340	-25,5162	2577,444
340	-21,9488	2577,411

ABS	DIS_EJE	COTA
340	-20,5783	2578,096
340	-15,8552	2580,668
340	-13,1331	2581,046
340	-10,925	2581,242
340	-9,54722	2581,537
340	-8,17754	2580,893
340	-5,72389	2580,043
340	-1,06316	2579,473
340	0	2579,346
340	2,949546	2578,995
340	5,399091	2578,943
340	5,805299	2579,014
340	12,56081	2579,014
340	14,70803	2579,014
340	15,42557	2579,21
340	17,39984	2580,114
340	23,20376	2580,182
340	32,01037	2579,848
340	40,34625	2579,434
340	48,83557	2580,143
340	49,79329	2580,384
340	51,87447	2580,584
340	51,91954	2580,55
340	53,61956	2580,68
340	53,98901	2580,711
340	65,39769	2581,22
340	76,80016	2581,2
340	77,50759	2581,348

ABS	DIS_EJE	COTA
340	82,29192	2581,637
340	84,7417	2582,44
340	88,45054	2583,015
340	92,85686	2584,068
340	95,84669	2584,108
340	96,84208	2584,089
340	100,3511	2584,074
340	109,4059	2583,884
340	114,3023	2583,989
340	117,854	2583,793
340	123,5239	2583,837
340	126,9509	2583,792
340	129,2519	2583,855
340	133,7848	2583,851
340	141,213	2582,175
340	143,5734	2581,863
340	146,3021	2582,024
340	150	2581,6
360	-110,756	2583,093
360	-110,281	2583,024
360	-102,78	2582,558
360	-93,5265	2581,865
360	-91,7504	2581,738
360	-83,1056	2581,389
360	-76,8839	2581,104
360	-75,7894	2581,056
360	-65,8712	2581,486
360	-64,2565	2581,552

ABS	DIS_EJE	COTA
360	-64,0312	2581,593
360	-63,7418	2581,67
360	-56,1654	2583,397
360	-53,3033	2583,917
360	-48,9253	2584,128
360	-43,9648	2585,141
360	-38,4146	2585,007
360	-35,4669	2584,291
360	-33,7681	2584,237
360	-29,7099	2581,623
360	-29,0099	2579,784
360	-24,2093	2578,907
360	-22,8638	2578,938
360	-10,3632	2578,951
360	-9,00562	2579,834
360	-7,62483	2580,755
360	-6,31044	2580,329
360	-3,69825	2579,928
360	-0,88491	2580,15
360	0	2579,859
360	1,369551	2579,41
360	1,610963	2579,276
360	2,450574	2579,254
360	5,820446	2579,013
360	8,26147	2579,013
360	15,39411	2579,014
360	15,86649	2579,196
360	17,90283	2580,215

ABS	DIS_EJE	COTA
360	24,45781	2580,223
360	40,65514	2579,456
360	51,63751	2580,299
360	54,55081	2580,43
360	57,43726	2580,74
360	66,61528	2581,241
360	75,51838	2581,264
360	78,07611	2581,223
360	81,73923	2582,702
360	82,20961	2582,92
360	84,69926	2583,957
360	92,22893	2584,085
360	98,12463	2584,173
360	110,1233	2583,963
360	113,8314	2583,941
360	115,8051	2583,94
360	129,2305	2583,93
360	130,2919	2583,96
360	140,9032	2583,86
360	143,6412	2583,817
360	146,3117	2583,69
360	148,0175	2583,658
360	150	2583,611
380	-87,5261	2581,864
380	-86,203	2581,908
380	-84,2036	2581,919
380	-69,9021	2582,302
380	-59,3858	2582,415

ABS	DIS_EJE	COTA
380	-52,7048	2582,532
380	-45,0168	2582,855
380	-41,7258	2582,968
380	-41,0113	2583,278
380	-40,6782	2583,756
380	-34,8033	2584,19
380	-33,1872	2584,35
380	-25,3568	2580,434
380	-20,5371	2578,124
380	-20,008	2578,01
380	-13,3949	2578,058
380	-8,58926	2578,092
380	-8,38356	2578,088
380	-6,4542	2579,581
380	-5,3986	2580,324
380	-2,39606	2579,627
380	-0,8987	2579,365
380	0	2578,974
380	0,577732	2578,722
380	1,87541	2578,376
380	3,012997	2579,008
380	8,600865	2579,008
380	12,22022	2579,01
380	14,00483	2579,572
380	16,96344	2579,795
380	25,39781	2580,117
380	43,15072	2579,652
380	46,90578	2579,5

ABS	DIS_EJE	COTA
380	48,57688	2580,173
380	55,03179	2580,317
380	56,48429	2580,344
380	59,39696	2580,181
380	63,20191	2580,02
380	64,30015	2580,044
380	72,2536	2580,202
380	77,1047	2580,133
380	82,6999	2580,009
380	89,8375	2580,406
380	93,41875	2580,472
380	97,20677	2579,925
380	105,2351	2580,841
380	105,395	2580,87
380	105,477	2580,879
380	109,5321	2581,608
380	117,3919	2583,043
380	117,5598	2583,078
380	124,2103	2583,262
380	135,0008	2583,207
380	146,294	2582,953
380	150	2582,71
400	-107,028	2582,033
400	-105,307	2581,95
400	-104,22	2582,117
400	-101,408	2582,353
400	-101,207	2582,365
400	-100,058	2582,37

ABS	DIS_EJE	COTA
400	-89,0348	2582,437
400	-82,1803	2582,471
400	-74,6591	2582,554
400	-69,2399	2582,687
400	-46,9852	2583,072
400	-38,993	2580,333
400	-35,5433	2580,869
400	-31,8777	2578,609
400	-27,9434	2577,98
400	-27,2283	2577,888
400	-26,0658	2577,896
400	-14,9028	2577,951
400	-12,0808	2577,965
400	-11,8334	2577,967
400	-11,8239	2577,967
400	-11,7628	2578,016
400	-7,70204	2580,502
400	-7,68916	2580,499
400	-7,67366	2580,496
400	-2,02222	2579,108
400	-0,23032	2579,161
400	0	2579,14
400	1,621594	2578,995
400	3,562216	2578,995
400	9,205421	2578,995
400	18,45233	2579,38
400	20,45317	2579,461
400	21,10545	2579,52

ABS	DIS_EJE	COTA
400	21,68422	2579,548
400	26,42762	2579,483
400	44,84077	2579,748
400	46,52713	2580,379
400	47,20073	2580,474
400	49,59552	2580,502
400	55,00557	2580,577
400	58,2504	2580,305
400	58,2912	2580,305
400	62,77448	2580,274
400	70,30732	2580,201
400	74,4454	2580,053
400	79,25401	2579,837
400	81,2364	2579,305
400	86,68069	2578,393
400	87,8357	2578,432
400	88,03585	2578,432
400	97,14868	2578,673
400	102,2872	2578,478
400	103,7901	2578,892
400	105,1068	2578,579
400	109,2465	2579,519
400	113,7718	2580,316
400	116,9732	2579,783
400	121,5898	2580,346
400	122,7073	2580,807
400	123,6285	2580,611
400	124,4013	2580,832

ABS	DIS_EJE	COTA
400	126,687	2580,911
400	132,4739	2581,831
400	141,4413	2582,785
400	143,0465	2583,016
400	144,5826	2583,259
400	150	2583,308
420	-118,704	2582,038
420	-115,949	2581,905
420	-115,683	2581,946
420	-114,996	2582,004
420	-112,011	2582,177
420	-105,885	2582,294
420	-96,6744	2582,297
420	-91,8295	2582,323
420	-82,7943	2581,618
420	-78,1423	2582,004
420	-62,0653	2582,386
420	-51,5654	2582,887
420	-47,2735	2581,275
420	-40,2282	2577,992
420	-35,8258	2577,834
420	-29,8125	2577,66
420	-22,7272	2577,757
420	-17,1136	2580,831
420	-16,1867	2580,786
420	-14,4632	2580,689
420	-12,7189	2579,972
420	-10,6025	2580,992

ABS	DIS_EJE	COTA
420	-7,2918	2580,022
420	-3,47502	2579,184
420	-0,64988	2578,688
420	-0,44092	2578,661
420	-0,41999	2578,653
420	-0,24928	2578,646
420	0	2578,767
420	0,441337	2578,981
420	9,066593	2578,981
420	10,46052	2578,981
420	11,85228	2579,036
420	29,95256	2580,405
420	39,46767	2580,689
420	40,90039	2580,843
420	49,0407	2581,238
420	54,09732	2581,301
420	56,97356	2581,24
420	59,74898	2581,127
420	65,26564	2582,924
420	73,76726	2581,648
420	76,4562	2581,547
420	76,62478	2581,562
420	82,44096	2582,676
420	86,1329	2583,424
420	86,75185	2583,454
420	88,33638	2583,383
420	93,62615	2583,432
420	99,1134	2583,217

ABS	DIS_EJE	COTA
420	104,1751	2582,938
420	110,1222	2583,049
420	114,4938	2583,163
420	130,9548	2583,159
420	141,5116	2582,958
420	145,0182	2582,738
420	150	2582,783
440	-107,979	2582,03
440	-107,066	2581,979
440	-105,666	2582,221
440	-104,644	2582,315
440	-97,9084	2582,449
440	-93,4963	2582,467
440	-89,0754	2582,48
440	-80,0395	2582,551
440	-62,2593	2582,988
440	-51,7071	2583,222
440	-49,376	2582,451
440	-47,2064	2581,204
440	-40,3678	2577,993
440	-33,3756	2577,733
440	-28,2074	2577,559
440	-25,4613	2577,566
440	-23,3825	2578,892
440	-17,6329	2582,486
440	-13,5868	2580,966
440	-13,0435	2580,922
440	-12,6322	2580,712

ABS	DIS_EJE	COTA
440	-11,6623	2580,507
440	-3,95422	2579,171
440	-2,48893	2578,75
440	-2,32108	2578,701
440	-2,02116	2578,744
440	-0,59643	2578,968
440	0	2578,968
440	4,565892	2578,968
440	9,831625	2578,968
440	25,88913	2580,069
440	41,52231	2580,656
440	44,9176	2581,108
440	46,61089	2581,02
440	49,77863	2580,881
440	57,38006	2580,518
440	58,64764	2580,4
440	64,56757	2583,083
440	67,3108	2583,804
440	72,27952	2583,674
440	77,57433	2583,853
440	81,44755	2583,841
440	82,83726	2583,896
440	88,55021	2583,927
440	94,88539	2584,083
440	102,1047	2583,871
440	108,4455	2583,593
440	113,3435	2583,537
440	116,2064	2583,476

ABS	DIS_EJE	COTA
440	124,85	2582,341
440	126,4781	2582,37
440	129,0949	2582,021
440	131,2308	2581,827
440	131,5075	2581,838
440	132,9483	2581,814
440	145,3967	2580,543
440	146,3787	2580,464
440	149,3058	2579,119
440	150	2578,997
460	-108,486	2582,034
460	-106,784	2581,94
460	-106,013	2582,072
460	-104,136	2582,247
460	-102,509	2582,347
460	-94,6992	2582,375
460	-90,7794	2582,36
460	-83,8787	2582,37
460	-77,9216	2581,711
460	-72,4269	2581,947
460	-52,2535	2581,915
460	-47,0818	2581,63
460	-41,8911	2579,151
460	-41,1998	2580,036
460	-36,8426	2577,521
460	-28,2568	2577,377
460	-25,7292	2577,402
460	-21,8464	2579,265

ABS	DIS_EJE	COTA
460	-16,5078	2581,507
460	-16,1481	2581,396
460	-14,3507	2580,753
460	-12,9049	2580,732
460	-9,54312	2580,473
460	-5,6426	2579,494
460	-2,53409	2578,6
460	-1,50138	2578,428
460	-1,15088	2578,495
460	0	2578,752
460	0,922594	2578,958
460	10,31991	2578,958
460	10,72402	2578,958
460	37,2418	2578,657
460	46,67922	2578,72
460	56,00462	2578,538
460	61,36641	2579,776
460	62,96015	2579,466
460	67,96042	2580,236
460	74,55423	2580,953
460	78,87532	2580,942
460	83,86685	2581,16
460	88,95365	2581,13
460	92,25506	2581,653
460	102,9958	2581,559
460	107,5958	2581,632
460	113,2724	2581,173
460	115,8462	2581,152

ABS	DIS_EJE	COTA
460	121,2721	2581,164
460	123,2767	2581,121
460	131,3533	2580,832
460	137,9987	2580,532
460	139,813	2580,409
460	140,7837	2580,05
460	145,5408	2579,523
460	150	2579,292
480	-108,993	2582,038
480	-106,502	2581,9
480	-106,36	2581,924
480	-106,015	2581,956
480	-104,805	2582,031
480	-96,3303	2582,08
480	-88,931	2582,232
480	-88,8988	2582,241
480	-86,2293	2582,262
480	-72,0886	2580,713
480	-66,3801	2581,281
480	-56,3941	2581,911
480	-50,1193	2583,155
480	-44,3085	2583,098
480	-38,9571	2583,131
480	-27,5345	2582,436
480	-26,04	2582,385
480	-25,8784	2582,35
480	-23,2613	2581,599
480	-22,66	2581,587

ABS	DIS_EJE	COTA
480	-12,5256	2581,215
480	-11,2128	2581,17
480	-11,0428	2581,142
480	-10,0567	2580,88
480	-2,80889	2578,71
480	-1,03372	2578,467
480	-0,48042	2578,586
480	0	2578,68
480	1,362887	2578,948
480	4,65377	2578,948
480	10,07434	2578,949
480	20,53372	2579,321
480	40,51901	2579,455
480	46,81877	2579,332
480	53,08721	2579,09
480	62,55368	2578,93
480	69,01897	2578,598
480	80,04051	2578,49
480	81,37163	2578,501
480	82,20326	2578,483
480	94,38444	2578,521
480	106,1849	2578,425
480	108,6475	2578,582
480	109,6319	2578,617
480	122,8086	2578,57
480	123,9925	2578,585
480	124,0084	2578,584
480	125,3269	2578,566

ABS	DIS_EJE	COTA
480	136,9955	2578,625
480	137,9247	2578,499
480	138,2027	2578,415
480	149,0165	2578,75
480	150	2578,747
500	-126,249	2581,747
500	-124,362	2581,702
500	-123,229	2581,568
500	-121,157	2581,648
500	-116,684	2581,611
500	-112,119	2581,617
500	-105,015	2581,611
500	-103,584	2581,721
500	-94,2167	2582,015
500	-90,1564	2582,186
500	-88,5784	2582,24
500	-80,9053	2582,49
500	-74,225	2582,666
500	-63,1139	2582,955
500	-62,1881	2582,524
500	-55,5017	2582,385
500	-52,4979	2582,481
500	-51,5327	2581,979
500	-47,5119	2582,021
500	-38,7612	2582,955
500	-35,689	2583,49
500	-34,3889	2583,494
500	-28,8479	2583,465

ABS	DIS_EJE	COTA
500	-26,3124	2583,326
500	-25,8417	2583,193
500	-20,2956	2582,695
500	-18,2556	2582,478
500	-13,0148	2582,31
500	-8,7863	2582,211
500	-5,97204	2582,07
500	0	2579,501
500	0,442349	2579,311
500	1,688515	2578,776
500	2,413292	2578,656
500	2,745523	2578,753
500	3,66371	2578,937
500	5,781034	2578,936
500	11,29942	2578,936
500	13,03007	2578,332
500	13,0633	2578,324
500	28,72341	2579,678
500	31,92398	2579,785
500	37,25211	2579,754
500	40,47163	2579,664
500	51,38849	2579,211
500	62,87262	2578,938
500	70,40644	2578,592
500	78,52646	2578,514
500	83,02558	2579,314
500	86,70123	2579,493
500	93,43197	2579,865

ABS	DIS_EJE	COTA
500	94,98517	2580,465
500	106,8087	2580,773
500	110,6073	2580,802
500	111,0672	2580,894
500	116,1209	2580,951
500	125,5687	2581,127
500	127,2778	2581,108
500	134,4276	2580,883
500	142,8049	2580,534
500	143,8871	2580,543
500	144,7095	2580,474
500	146,9437	2580,324
500	150	2580,073
520	-150	2581,664
520	-146,909	2581,67
520	-141,552	2581,71
520	-137,274	2581,737
520	-130,042	2581,827
520	-124,96	2581,837
520	-121,614	2582,016
520	-119,975	2581,815
520	-109,695	2581,638
520	-105,419	2581,584
520	-103,048	2581,577
520	-86,2393	2581,897
520	-83,021	2581,99
520	-78,2663	2582,124
520	-75,0629	2582,208



ABS	DIS_EJE	COTA
520	-72,3258	2582,198
520	-59,6129	2582,102
520	-50,9839	2582,034
520	-48,0162	2582,011
520	-43,4887	2581,979
520	-32,3944	2581,968
520	-28,3449	2582,439
520	-17,399	2582,481
520	-10,8615	2583,066
520	-6,96173	2583,247
520	-0,71855	2582,372
520	0	2581,89
520	2,949509	2579,908
520	3,192314	2579,763
520	3,575794	2579,668
520	6,914494	2578,923
520	12,39627	2578,921
520	13,20795	2578,921
520	16,17354	2578,931
520	16,87686	2578,86
520	23,73478	2579,316
520	34,05487	2579,866
520	35,63952	2579,831
520	50,64361	2579,238
520	73,91846	2578,565
520	75,67984	2578,986
520	85,81272	2580,976
520	87,30125	2580,958

ABS	DIS_EJE	COTA
520	96,24195	2581,246
520	97,54013	2581,939
520	102,8846	2583,029
520	105,1435	2583,593
520	106,594	2583,816
520	107,4857	2583,831
520	118,4403	2583,809
520	125,6508	2583,654
520	127,7223	2583,659
520	130,8847	2583,631
520	134,718	2583,897
520	138,3964	2584,227
520	146,8895	2584,081
520	150	2583,974
540	-150	2577,728
540	-145,202	2577,805
540	-143,061	2577,764
540	-136,633	2577,815
540	-130,274	2578,109
540	-124,829	2578,697
540	-121,611	2579,207
540	-118,69	2581,287
540	-115,342	2583,183
540	-111,333	2583,166
540	-107,265	2583,099
540	-104,206	2582,389
540	-102,651	2582,33
540	-102,23	2582,341

ABS	DIS_EJE	COTA
540	-101,09	2582,151
540	-98,2564	2582,152
540	-92,9452	2582,112
540	-81,3454	2582,116
540	-63,6427	2582,168
540	-39,8848	2582,234
540	-36,2753	2582,249
540	-30,8149	2582,261
540	-13,6238	2582,234
540	-12,8326	2582,303
540	-12,7442	2582,263
540	0	2582,673
540	0,106448	2582,677
540	0,883283	2582,666
540	2,26488	2581,814
540	7,102455	2579,185
540	7,722617	2579,213
540	9,082031	2578,909
540	9,983741	2578,909
540	15,73416	2578,909
540	16,26208	2578,784
540	18,50896	2578,539
540	25,73612	2579,397
540	31,84191	2579,728
540	36,94979	2579,66
540	42,35039	2579,488
540	73,85541	2578,546
540	83,12805	2580,759

ABS	DIS_EJE	COTA
540	83,84563	2580,907
540	84,63296	2580,896
540	90,51383	2580,55
540	94,89877	2582,676
540	96,6604	2583,615
540	104,6088	2583,892
540	111,088	2583,971
540	117,5108	2583,952
540	123,8905	2583,931
540	128,1449	2583,796
540	131,2796	2583,747
540	138,7257	2583,371
540	139,9076	2583,241
540	150	2582,657
560	-150	2577,876
560	-149,836	2577,87
560	-148,189	2578,321
560	-145,692	2579,145
560	-144,638	2578,832
560	-141,752	2578,88
560	-137,402	2579,237
560	-135,973	2578,671
560	-133,287	2577,888
560	-121,136	2578,321
560	-121,009	2578,326
560	-120,421	2578,42
560	-111,838	2579,788
560	-110,252	2580,888

ABS	DIS_EJE	COTA
560	-105,335	2583,942
560	-102,922	2584,026
560	-96,8927	2584,184
560	-93,7923	2583,933
560	-90,398	2583,626
560	-82,0008	2582,885
560	-76,9444	2582,8
560	-75,9492	2582,647
560	-73,6382	2582,13
560	-49,7368	2582,169
560	-16,9723	2582,322
560	-12,8832	2583,334
560	-12,2796	2583,623
560	-8,89246	2583,655
560	-5,86941	2583,499
560	-4,9221	2583,006
560	-2,63964	2582,966
560	0	2581,346
560	2,604214	2579,747
560	4,373864	2578,735
560	4,816821	2578,738
560	5,956069	2578,896
560	9,973101	2578,896
560	12,91868	2578,896
560	13,77284	2578,777
560	15,52202	2578,458
560	24,12714	2579,429
560	25,21707	2579,556

ABS	DIS_EJE	COTA
560	25,98603	2579,557
560	35,9935	2579,654
560	36,97491	2579,208
560	49,14391	2579,196
560	72,89206	2578,54
560	73,47027	2578,664
560	75,90863	2579,713
560	77,2556	2580,243
560	77,42622	2580,272
560	83,33013	2580,914
560	88,35019	2580,321
560	89,07238	2580,273
560	91,83685	2581,441
560	98,15566	2583,937
560	99,54806	2584
560	105,9588	2583,873
560	109,2341	2584,035
560	117,4734	2584,016
560	129,0221	2584,178
560	129,6487	2584,17
560	131,0727	2584,132
560	147,4166	2583,935
560	150	2583,846
580	-150	2577,991
580	-148,358	2577,956
580	-146,603	2578,316
580	-143,643	2579,073
580	-142,225	2578,853

ABS	DIS_EJE	COTA
580	-137,694	2578,964
580	-132,659	2579,258
580	-131,164	2578,828
580	-127,938	2577,888
580	-117,787	2578,311
580	-115,284	2578,4
580	-108,747	2579,662
580	-106,398	2580,172
580	-103,37	2582,029
580	-100,6	2583,764
580	-99,0115	2584,14
580	-95,1346	2584,27
580	-90,7652	2584,427
580	-88,0874	2584,225
580	-85,8571	2583,412
580	-82,8618	2583,307
580	-76,7336	2583,609
580	-73,1955	2583,384
580	-71,9083	2583,044
580	-65,8086	2582,223
580	-38,1478	2582,346
580	-33,1473	2582,962
580	-28,9393	2583,541
580	-27,2726	2583,805
580	-19,9425	2584,12
580	-15,0963	2583,273
580	-13,3645	2582,785
580	-11,9969	2582,847

ABS	DIS_EJE	COTA
580	-5,2996	2582,876
580	0	2580,608
580	1,27685	2580,061
580	3,475964	2578,777
580	4,731835	2578,797
580	5,425583	2578,882
580	6,869358	2578,882
580	12,46921	2578,882
580	12,80043	2578,859
580	14,92696	2578,665
580	22,7974	2578,932
580	23,3316	2579,099
580	24,77934	2579,692
580	25,9389	2579,612
580	35,99769	2579,159
580	36,84593	2578,773
580	55,84791	2578,522
580	63,43513	2578,502
580	70,04109	2579,969
580	73,81041	2580,632
580	76,36204	2580,947
580	78,0605	2581,055
580	85,82003	2581,104
580	89,15056	2583,048
580	91,73078	2583,846
580	104,9593	2583,946
580	108,4444	2584,014
580	110,6026	2583,952

ABS	DIS_EJE	COTA
580	118,2115	2583,93
580	121,755	2583,827
580	126,5363	2583,748
580	133,1111	2583,408
580	135,0755	2583,355
580	146,2978	2583,199
580	147,5509	2583,182
580	149,8134	2583,134
580	150	2583,119
600	-150	2578,438
600	-141,737	2578,251
600	-139,879	2579,103
600	-138,634	2579,356
600	-137,266	2579,345
600	-136,806	2579,38
600	-135,379	2578,721
600	-135,246	2578,637
600	-128,533	2578,848
600	-124,696	2579,072
600	-122,297	2578,382
600	-119,622	2577,888
600	-109,13	2578,234
600	-106,415	2578,232
600	-101,265	2579,926
600	-98,2739	2581,135
600	-96,5993	2581,632
600	-95,2331	2581,912
600	-87,6146	2584,456

ABS	DIS_EJE	COTA
600	-86,134	2584,509
600	-83,8549	2583,66
600	-83,4137	2583,499
600	-80,5242	2583,449
600	-73,163	2583,291
600	-64,6957	2583,438
600	-62,3067	2583,684
600	-52,8024	2583,415
600	-52,4496	2583,418
600	-50,4584	2583,413
600	-37,8432	2583,535
600	-31,2915	2583,737
600	-27,9253	2583,648
600	-19,3439	2583,56
600	-17,1208	2582,652
600	-17,0128	2582,578
600	-16,1532	2582,544
600	-7,42846	2582,313
600	-3,27833	2580,867
600	0	2579,561
600	2,165873	2578,699
600	3,558694	2578,738
600	3,742107	2578,868
600	10,37522	2578,869
600	12,93256	2578,869
600	13,64338	2578,823
600	15,26066	2578,719
600	19,12354	2578,817

ABS	DIS_EJE	COTA
600	22,36907	2579,114
600	25,78217	2578,976
600	26,34486	2579,428
600	32,17313	2579,483
600	35,31548	2579,107
600	39,71499	2578,606
600	50,29349	2578,515
600	65,19919	2578,486
600	66,85891	2579,024
600	69,7722	2580,238
600	71,35946	2580,289
600	73,72163	2580,523
600	79,25374	2580,902
600	84,3616	2581,648
600	91,68532	2583,01
600	93,17649	2583,356
600	96,84948	2583,571
600	100,5168	2583,665
600	111,2669	2583,775
600	112,3095	2583,726
600	113,708	2583,827
600	123,9266	2583,813
600	125,4459	2583,756
600	125,9476	2583,52
600	138,4919	2581,376
600	143,0251	2581,577
600	150	2582,144
620	-150	2578,642

ABS	DIS_EJE	COTA
620	-149,368	2578,803
620	-148,223	2579,147
620	-147,797	2579,032
620	-139,293	2579,25
620	-138,42	2579,316
620	-138,184	2579,233
620	-133,083	2577,947
620	-132,831	2577,888
620	-118,076	2578,384
620	-117,132	2578,41
620	-109,448	2579,6
620	-106,081	2580,207
620	-103,777	2581,346
620	-99,3134	2583,611
620	-96,0431	2584,212
620	-94,7718	2584,25
620	-91,3688	2584,361
620	-86,8624	2584,505
620	-86,3937	2584,349
620	-83,2914	2583,344
620	-71,0367	2583,216
620	-69,9524	2583,198
620	-67,0783	2583,266
620	-61,7334	2583,664
620	-50,2238	2583,465
620	-49,3167	2583,487
620	-34,8007	2583,678
620	-32,2667	2583,577

ABS	DIS_EJE	COTA
620	-31,6543	2583,892
620	-20,7781	2583,612
620	-16,8005	2583,191
620	-15,9199	2582,558
620	-15,5033	2582,338
620	-14,5749	2582,326
620	-7,56798	2582,012
620	-1,88718	2580,567
620	0	2580,087
620	4,854758	2578,852
620	9,350572	2578,852
620	14,17252	2578,852
620	15,71474	2578,904
620	17,03714	2579,005
620	22,34609	2579,113
620	23,68881	2579,468
620	24,48181	2579,516
620	27,57028	2579,239
620	29,19297	2579,084
620	31,22624	2578,919
620	35,87859	2578,568
620	37,41777	2578,554
620	40,19234	2578,537
620	69,43613	2578,375
620	77,00743	2578,472
620	85,81201	2578,745
620	95,62719	2578,672
620	98,67225	2578,647

ABS	DIS_EJE	COTA
620	107,2437	2578,757
620	123,2778	2579,247
620	126,1602	2578,094
620	130,0908	2578,627
620	132,525	2580,31
620	133,0261	2580,466
620	137,0922	2580,622
620	143,8271	2580,913
620	149,9635	2581,282
620	150	2581,281
640	-150	2578,17
640	-142,663	2578,073
640	-137,822	2578,965
640	-137,691	2578,994
640	-137,28	2578,936
640	-137,161	2579,025
640	-135,141	2579,166
640	-134,939	2579,091
640	-133,941	2578,589
640	-131,655	2578,651
640	-120,891	2579,117
640	-116,476	2578,09
640	-115,015	2577,888
640	-103,011	2578,184
640	-98,6123	2578,128
640	-97,9305	2578,123
640	-86,2277	2582,244
640	-85,7204	2582,337

ABS	DIS_EJE	COTA
640	-82,541	2582,581
640	-77,1263	2584,236
640	-70,57	2584,241
640	-69,7799	2584,273
640	-67,9764	2583,964
640	-65,0664	2583,407
640	-53,8571	2583,32
640	-46,4126	2583,885
640	-45,0572	2583,926
640	-39,3508	2584,064
640	-39,2171	2584,074
640	-35,2466	2583,956
640	-30,8062	2583,98
640	-19,7409	2583,857
640	-17,7998	2582,878
640	-13,4356	2581,719
640	-12,3263	2581,721
640	-7,48373	2581,65
640	0	2579,833
640	2,602672	2579,202
640	4,507799	2578,836
640	12,72828	2578,836
640	13,86779	2578,836
640	14,05433	2578,805
640	16,32255	2578,899
640	23,99453	2579,362
640	26,813	2579,327
640	31,29822	2579,276

ABS	DIS_EJE	COTA
640	31,68553	2578,953
640	35,57031	2578,383
640	45,78205	2578,327
640	72,0333	2578,665
640	77,16049	2578,824
640	116,5047	2578,529
640	128,7108	2578,428
640	129,8533	2578,443
640	130,7526	2578,893
640	135,0412	2580,59
640	137,9312	2580,689
640	140,1566	2581,023
640	145,9711	2580,956
640	150	2581,108
660	-150	2578,983
660	-147,408	2578,993
660	-122,689	2578,431
660	-118,955	2578,431
660	-114,437	2578,393
660	-110,067	2578,293
660	-108,767	2578,627
660	-106,411	2579,421
660	-104,073	2578,914
660	-103,681	2578,906
660	-103,274	2578,779
660	-91,3231	2578,548
660	-89,041	2578,564
660	-88,1089	2578,646

ABS	DIS_EJE	COTA
660	-86,4049	2578,441
660	-85,957	2577,888
660	-85,6865	2577,889
660	-81,9567	2577,838
660	-78,5247	2577,708
660	-71,1746	2577,594
660	-69,4069	2578,201
660	-65,6017	2579,63
660	-58,4125	2581,077
660	-56,9898	2581,645
660	-52,6566	2582,702
660	-46,9327	2583,848
660	-44,544	2583,837
660	-43,6162	2583,647
660	-38,7162	2583,879
660	-34,6247	2583,005
660	-32,0244	2582,72
660	-24,5325	2581,366
660	-18,9308	2581,535
660	-11,5991	2581,639
660	-7,08633	2580,578
660	-2,6843	2579,468
660	-1,5866	2579,276
660	0	2579,128
660	0,010582	2579,127
660	3,780382	2578,764
660	3,794581	2578,763
660	4,701987	2578,821

ABS	DIS_EJE	COTA
660	11,80196	2578,821
660	13,70532	2578,821
660	14,10624	2578,753
660	17,01907	2578,77
660	19,66671	2578,968
660	24,30517	2579,054
660	25,11248	2579,379
660	26,08866	2579,693
660	31,98606	2579,942
660	33,9397	2579,944
660	36,87755	2578,744
660	37,10428	2578,548
660	40,65701	2578,359
660	44,75082	2578,503
660	69,24502	2578,779
660	72,36645	2578,868
660	122,8933	2578,489
660	129,2986	2578,435
660	133,9357	2579,374
660	137,0576	2580,647
660	138,7382	2580,703
660	140,1172	2580,909
660	149,9244	2580,835
660	150	2580,839
680	-150	2578,432
680	-147,212	2578,342
680	-143,424	2578,269
680	-141,171	2578,073

ABS	DIS_EJE	COTA
680	-135,705	2577,942
680	-122,151	2577,739
680	-118,495	2577,835
680	-109,833	2578,145
680	-107,5	2578,243
680	-106,25	2578,221
680	-100,361	2578,256
680	-94,9068	2578,545
680	-92,9715	2579,095
680	-91,6252	2579,022
680	-90,5342	2579,121
680	-74,2308	2579,575
680	-73,8036	2579,361
680	-73,198	2579,394
680	-69,6847	2578,896
680	-68,1902	2578,271
680	-53,1952	2578,449
680	-43,3202	2578,427
680	-34,1926	2578,337
680	-16,7908	2578,78
680	-13,3199	2579,24
680	-5,86273	2580,016
680	-2,37952	2580,348
680	-0,12616	2580,397
680	0	2580,315
680	0,070543	2580,268
680	2,7486	2578,839
680	4,981941	2578,749

ABS	DIS_EJE	COTA
680	5,703274	2578,81
680	13,62316	2578,81
680	13,84042	2578,81
680	14,16513	2578,808
680	16,14029	2578,811
680	20,26664	2578,898
680	24,22535	2578,991
680	26,12372	2579,61
680	27,96776	2579,713
680	35,12595	2579,966
680	37,44412	2578,88
680	38,39015	2578,566
680	41,35167	2578,371
680	44,93339	2578,508
680	77,48585	2578,642
680	86,45739	2578,796
680	107,0794	2578,658
680	109,4896	2578,639
680	113,5755	2578,749
680	127,6946	2579,71
680	132,8364	2577,119
680	133,5937	2577,204
680	135,8168	2577,025
680	141,3699	2578,84
680	148,2051	2579,702
680	150	2580,493
700	-150	2578,754
700	-144,705	2578,86

ABS	DIS_EJE	COTA
700	-136,718	2578,974
700	-130,711	2579,879
700	-130,538	2579,897
700	-130,495	2579,907
700	-126,351	2579,942
700	-126,121	2579,955
700	-126,112	2579,954
700	-125,957	2579,889
700	-123,256	2578,583
700	-71,4666	2578,459
700	-44,694	2578,338
700	-17,7177	2578,702
700	-17,4928	2578,695
700	-16,4228	2578,717
700	-15,709	2578,779
700	-5,90441	2579,382
700	-5,4855	2579,281
700	-2,77158	2579,543
700	-1,42953	2580,018
700	-0,84821	2579,832
700	0	2579,635
700	0,031034	2579,627
700	0,205395	2579,567
700	0,393716	2579,558
700	6,783574	2578,803
700	10,21553	2578,803
700	13,0365	2578,803
700	14,58915	2578,542



ABS	DIS_EJE	COTA
700	14,83756	2578,529
700	16,47782	2578,669
700	20,51577	2578,98
700	23,21087	2579,181
700	32,70484	2579,825
700	35,19761	2579,924
700	36,4462	2579,34
700	38,74924	2578,541
700	41,16671	2578,383
700	44,9731	2578,511
700	82,77019	2578,367
700	94,5004	2578,42
700	102,2878	2578,475
700	105,4876	2579,88
700	109,9416	2579,971
700	112,174	2580,543
700	113,6983	2580,643
700	122,5267	2581,059
700	125,8489	2581,183
700	129,6192	2581,27
700	137,3138	2582,925
700	137,3603	2582,928
700	137,4631	2582,949
700	138,1063	2583,019
700	143,0654	2583,464
700	150	2583,609
720	-150	2578,534
720	-121,299	2578,621

ABS	DIS_EJE	COTA
720	-110,848	2578,84
720	-106,755	2578,454
720	-74,9589	2578,321
720	-60,3768	2578,326
720	-28,2018	2578,317
720	-26,2	2578,425
720	-23,5783	2578,423
720	-17,411	2578,618
720	-15,2218	2578,755
720	-13,0537	2579,637
720	-10,8357	2580,104
720	-6,73318	2580,205
720	-4,68174	2579,826
720	-3,02063	2579,736
720	-1,12344	2579,113
720	0	2579,05
720	2,131483	2578,931
720	3,239848	2578,802
720	4,181121	2578,802
720	11,0612	2578,802
720	12,97493	2578,899
720	13,89171	2578,849
720	18,34811	2578,701
720	19,62499	2578,807
720	32,23702	2579,832
720	32,90539	2579,876
720	33,398	2579,893
720	33,81618	2579,742

ABS	DIS_EJE	COTA
720	38,06215	2578,533
720	41,10094	2578,38
720	45,24268	2578,468
720	57,51179	2578,323
720	80,21586	2578,516
720	84,09548	2578,562
720	93,47473	2578,713
720	99,47373	2578,62
720	105,8779	2578,476
720	109,395	2578,533
720	116,0525	2578,501
720	122,4444	2578,541
720	134,6418	2578,485
720	135,8118	2578,497
720	136,705	2578,484
720	148,8154	2578,574
720	149,2041	2578,592
720	150	2578,591
740	-150	2578,563
740	-114,726	2578,673
740	-99,632	2578,985
740	-93,6021	2578,441
740	-44,3282	2578,241
740	-41,8381	2578,241
740	-36,9203	2578,239
740	-31,608	2578,532
740	-30,974	2578,531
740	-29,5079	2578,579

ABS	DIS_EJE	COTA
740	-24,4975	2578,9
740	-21,6318	2580,094
740	-18,6432	2580,48
740	-10,2981	2580,656
740	-5,0548	2580,455
740	-4,21121	2579,431
740	-2,1224	2578,698
740	-0,87573	2578,003
740	-0,06753	2578,328
740	0	2578,341
740	2,438044	2578,801
740	6,355128	2578,801
740	9,310994	2578,801
740	11,70217	2578,869
740	12,4653	2578,858
740	17,57859	2579,158
740	21,08256	2579,383
740	22,15653	2579,409
740	31,8133	2579,006
740	32,9381	2578,886
740	33,71577	2578,904
740	81,45688	2578,376
740	87,52088	2578,425
740	101,2909	2578,582
740	101,3638	2578,604
740	101,4238	2578,601
740	109,3345	2580,246
740	118,5751	2580,654

ABS	DIS_EJE	COTA
740	120,1611	2580,704
740	121,3881	2580,76
740	122,4955	2580,666
740	124,9097	2580,877
740	126,8266	2580,952
740	139,6912	2582,251
740	141,1098	2582,138
740	144,6269	2582,481
740	150	2583,528
760	-150	2578,605
760	-104,336	2578,748
760	-83,2151	2579,184
760	-74,7774	2578,422
760	-47,5584	2578,312
760	-45,0649	2578,494
760	-42,0131	2578,37
760	-39,1125	2578,718
760	-36,4152	2578,847
760	-33,3195	2579,046
760	-29,8598	2579,545
760	-21,8939	2580,844
760	-11,7863	2580,891
760	-7,18807	2580,767
760	-7,16891	2580,767
760	-5,88161	2580,085
760	-2,03559	2579,062
760	-0,77605	2578,603
760	-0,22885	2578,708

ABS	DIS_EJE	COTA
760	0	2578,719
760	1,689325	2578,798
760	3,212738	2578,798
760	9,435412	2578,798
760	10,22204	2578,762
760	11,87931	2578,663
760	14,31674	2578,663
760	18,39777	2578,677
760	19,50375	2579,035
760	20,82352	2579,398
760	25,23357	2579,304
760	40,92618	2578,783
760	88,56728	2578,707
760	89,07879	2578,705
760	89,65684	2578,724
760	91,45107	2578,872
760	92,90904	2579,066
760	97,14184	2580,309
760	101,8271	2580,594
760	108,0689	2580,829
760	118,5876	2581,177
760	126,0695	2582,814
760	126,3505	2582,851
760	126,7084	2582,932
760	127,2689	2583,011
760	132,7393	2583,468
760	137,6164	2583,566
760	150	2584,136

ABS	DIS_EJE	COTA
780	-150	2578,537
780	-137,302	2578,584
780	-121,99	2578,816
780	-113,308	2578,453
780	-46,3341	2578,3
780	-44,3412	2578,471
780	-41,532	2578,368
780	-38,3898	2578,754
780	-35,9232	2578,895
780	-33,5679	2579,068
780	-24,4952	2580,528
780	-21,9157	2580,978
780	-19,1482	2581,011
780	-15,9408	2580,965
780	-12,0442	2580,962
780	-9,75814	2579,708
780	-9,66596	2579,689
780	-2,24756	2578,634
780	-0,59045	2578,784
780	-0,55862	2578,795
780	-0,41716	2578,794
780	0	2578,795
780	10,94036	2578,795
780	12,76029	2578,838
780	13,43119	2578,859
780	17,36	2578,932
780	22,74906	2578,959
780	24,05564	2579,083

ABS	DIS_EJE	COTA
780	24,3131	2579,11
780	52,90932	2579,172
780	61,73408	2580,384
780	71,44674	2580,716
780	72,92901	2580,811
780	73,8318	2580,726
780	74,85782	2580,734
780	85,58193	2580,963
780	87,45795	2581,157
780	94,18002	2581,195
780	99,70389	2581,11
780	106,5698	2581,035
800	-150	2578,562
800	-126,447	2578,515
800	-83,9431	2578,345
800	-66,6893	2578,272
800	-43,2609	2578,279
800	-41,4951	2578,416
800	-38,4958	2578,349
800	-34,1564	2578,756
800	-30,8058	2578,931
800	-28,3968	2579,086
800	-20,6345	2580,151
800	-14,4989	2580,981
800	-11,0813	2579,639
800	-7,93051	2579,479
800	-4,98662	2578,727
800	0	2578,808

ABS	DIS_EJE	COTA
800	1,599081	2578,834
800	2,607455	2578,831
800	4,20703	2578,782
800	6,594436	2578,782
800	13,80119	2578,782
800	14,39942	2578,715
800	15,68797	2578,539
800	19,24734	2579,131
800	23,8074	2579,99
800	24,60511	2580,528
800	26,9134	2580,551
800	38,28371	2580,992
800	38,34089	2580,994
800	38,62339	2580,99
800	55,02882	2580,76
800	60,23555	2580,748
800	68,76781	2580,871
800	79,85566	2580,973
800	81,97132	2580,973
800	83,24172	2580,998
820	-150	2578,57
820	-100,629	2578,361
820	-32,1501	2578,382
820	-28,733	2578,646
820	-27,9971	2578,839
820	-17,3603	2580,728
820	-13,8619	2581,105
820	-9,83007	2581,001

ABS	DIS_EJE	COTA
820	-9,52084	2580,992
820	-8,25208	2580,104
820	-6,68109	2578,926
820	-5,63799	2578,943
820	0	2578,93
820	0,266703	2578,929
820	4,381621	2578,731
820	6,069167	2578,796
820	6,891357	2578,77
820	11,85486	2578,77
820	15,31136	2578,769
820	16,53473	2578,664
820	17,5015	2578,706
820	21,62848	2578,951
820	29,79518	2580,116
820	32,06071	2580,512
820	40,592	2580,767
820	45,69137	2581,021
820	56,07644	2580,977
820	70,53237	2580,81
820	75,88231	2580,878
820	83,58166	2580,991
840	-150	2578,752
840	-149,408	2578,492
840	-149,251	2578,492
840	-146,212	2578,48
840	-139,731	2578,48
840	-132,139	2578,615

ABS	DIS_EJE	COTA
840	-22,2032	2579,274
840	-19,7522	2578,921
840	-17,1978	2579,271
840	-17,1928	2579,271
840	-5,90461	2580,69
840	-5,56318	2580,683
840	-3,35005	2579,165
840	-2,98974	2579,028
840	-2,69998	2579,028
840	0	2578,898
840	6,768621	2578,573
840	8,295334	2578,632
840	9,433198	2578,759
840	16,56308	2578,758
840	18,56731	2578,758
840	18,83729	2578,795
840	21,96395	2579,165
840	25,93854	2579,397
840	35,64083	2579,411
840	36,3527	2579,668
840	37,08687	2579,671
840	39,20993	2580,443
840	41,42625	2580,487
840	45,73584	2580,702
840	52,6507	2580,976
840	72,8913	2580,772
840	75,40705	2580,744
840	76,45641	2580,76

ABS	DIS_EJE	COTA
840	86,68249	2581,062
860	-150	2578,152
860	-149,079	2578,151
860	-134,206	2578,432
860	-123,886	2578,56
860	-118,114	2578,558
860	-35,012	2578,87
860	-32,0863	2578,844
860	-18,1127	2578,942
860	-16,5576	2579,044
860	-15,4961	2579,145
860	-15,4891	2579,052
860	-14,3044	2579,105
860	-13,1215	2579,107
860	0	2579
860	0,588774	2578,996
860	0,7324	2578,799
860	3,576447	2578,455
860	3,628437	2578,442
860	3,753288	2578,451
860	7,409809	2578,75
860	8,860181	2578,75
860	16,41284	2578,751
860	16,43487	2578,749
860	19,92661	2578,998
860	33,70367	2579,288
860	35,32288	2579,307
860	35,42352	2579,346

ABS	DIS_EJE	COTA
860	35,54112	2579,35
860	38,51189	2580,443
860	41,10529	2580,494
860	44,83663	2580,693
860	51,49031	2580,994
860	59,68467	2580,931
860	74,24815	2580,788
860	76,93259	2580,833
860	87,28739	2580,996
880	-150	2578,26
880	-139,664	2578,26
880	-131,442	2578,414
880	-118,478	2578,575
880	-114,93	2578,573
880	-66,0153	2578,757
880	-57,7553	2578,68
880	-29,436	2578,878
880	-19,3388	2578,972
880	-18,3461	2578,903
880	-16,8604	2579,082
880	-16,6254	2579,324
880	-16,1254	2579,122
880	-15,5391	2579,254
880	-1,3637	2579,515
880	0	2579,554
880	0,033523	2579,555
880	0,520725	2579,452
880	1,303291	2579,029

ABS	DIS_EJE	COTA
880	2,125841	2578,879
880	3,075825	2578,639
880	3,843252	2578,699
880	5,399947	2578,741
880	11,94671	2578,741
880	13,99127	2578,741
880	15,57338	2578,852
880	17,28249	2578,965
880	20,1658	2578,933
880	34,01316	2578,733
880	34,85917	2578,985
880	39,76147	2580,493
880	41,45272	2580,559
880	48,85028	2580,839
880	50,57719	2581,014
880	59,99503	2580,997
880	70,09394	2580,962
880	76,02651	2581,08
880	80,94711	2581,03
900	-150	2578,335
900	-131,932	2578,371
900	-129,626	2578,371
900	-128,276	2578,396
900	-112,604	2578,589
900	-111,33	2578,589
900	-94,4948	2578,652
900	-81,5612	2578,526
900	-69,4834	2578,61

ABS	DIS_EJE	COTA
900	-26,4579	2579,013
900	-22,0429	2578,704
900	-15,3703	2579,51
900	-15,341	2579,54
900	-14,8775	2579,353
900	-14,2615	2579,47
900	-10,6641	2579,704
900	-1,44768	2579,777
900	-0,58231	2579,735
900	0	2579,285
900	0,227118	2579,109
900	0,335362	2579,051
900	0,598161	2579,003
900	2,566958	2578,55
900	3,284704	2578,602
900	4,404548	2578,731
900	10,8055	2578,732
900	13,96966	2578,732
900	14,931	2578,822
900	15,37809	2578,841
900	18,00539	2578,937
900	30,51149	2578,797
900	34,24543	2579,8
900	39,84504	2580,12
900	41,78434	2580,601
900	42,30408	2580,621
900	42,79197	2580,64
900	44,41749	2580,805

ABS	DIS_EJE	COTA
900	56,64445	2581,418
900	65,17313	2581,394
900	69,01845	2581,415
900	73,38486	2581,312
900	75,08759	2581,207
920	-150	2578,25
920	-142,409	2578,264
920	-133,665	2578,411
920	-118,279	2578,581
920	-115,408	2578,58
920	-90,8006	2578,67
920	-81,4163	2578,533
920	-72,8659	2578,592
920	-29,9897	2579,038
920	-23,5128	2578,564
920	-22,4801	2578,687
920	-22,3587	2578,702
920	-9,86872	2580,352
920	-5,74173	2580,435
920	-2,76085	2580,144
920	-1,2264	2579,171
920	0	2578,937
920	0,901787	2578,765
920	1,66091	2578,629
920	3,254856	2578,708
920	3,416062	2578,722
920	10,91741	2578,722
920	12,56279	2578,722

ABS	DIS_EJE	COTA
920	14,26466	2578,707
920	15,41335	2578,699
920	15,57129	2578,705
920	16,69945	2578,745
920	22,83087	2580,307
920	29,1723	2581,871
920	30,19351	2581,878
920	33,59415	2581,811
920	40,38703	2582,962
920	40,58699	2582,981
920	41,25752	2582,851
920	47,16644	2581,288
920	50,90879	2581,774
920	51,61463	2581,928
920	55,07433	2581,915
920	62,98976	2581,716
920	67,06374	2581,632
940	-150	2578,21
940	-135,916	2578,418
940	-119,289	2578,578
940	-115,448	2578,578
940	-91,125	2578,661
940	-82,4865	2578,508
940	-76,7189	2578,546
940	-32,5092	2579,021
940	-31,0278	2579,034
940	-28,9781	2578,979
940	-28,8822	2579,052

ABS	DIS_EJE	COTA
940	-28,3503	2579,296
940	-25,772	2579,292
940	-2,66618	2580,884
940	-1,57102	2580,286
940	-0,00081	2579,201
940	0	2579,2
940	6,068691	2578,519
940	6,167747	2578,508
940	6,259333	2578,51
940	14,03247	2578,729
940	19,36479	2578,734
940	30,31301	2582,305
940	30,90183	2582,502
940	35,23569	2582,508
940	42,03385	2582,644
940	47,82292	2582,394
940	49,82884	2582,375
940	52,6946	2582,343
940	60,85987	2581,533
940	63,91872	2581,441
940	71,68942	2581,774
940	71,84417	2581,768
960	-150	2578,484
960	-139,395	2578,558
960	-129,169	2578,562
960	-89,1745	2578,676
960	-81,722	2578,52
960	-76,2428	2578,551

ABS	DIS_EJE	COTA
960	-50,8446	2578,82
960	-45,1422	2578,86
960	-38,3326	2578,544
960	-32,4999	2578,488
960	-31,191	2578,701
960	-30,8779	2578,949
960	-28,2712	2580,196
960	-27,2669	2580,654
960	-13,838	2580,941
960	-10,9982	2580,955
960	-3,901	2579,323
960	-3,36667	2579,212
960	-3,35005	2579,202
960	-3,32339	2579,201
960	0	2578,949
960	5,395907	2578,54
960	8,089229	2578,693
960	20,92073	2578,58
960	20,9524	2578,593
960	21,03282	2578,59
960	21,22999	2578,61
960	41,24541	2582,29
960	56,22701	2582,356
960	58,51513	2581,713
960	59,49671	2581,417
960	59,6074	2581,404
980	-150	2578,56
980	-88,6101	2578,689

ABS	DIS_EJE	COTA
980	-81,6251	2578,532
980	-76,0508	2578,556
980	-57,0142	2578,739
980	-50,9747	2578,767
980	-47,1153	2578,526
980	-33,5886	2578,342
980	-32,7942	2578,472
980	-31,9163	2578,791
980	-29,8505	2579,394
980	-28,6342	2579,995
980	-22,9553	2580,241
980	-19,3191	2580,253
980	-9,16346	2580,573
980	-6,92799	2579,326
980	-6,26126	2578,925
980	-4,7828	2578,754
980	0	2578,481
980	1,375009	2578,402
980	8,609054	2578,519
980	15,27429	2578,837
980	17,93415	2580,208
980	24,18166	2581,971
980	42,2367	2581,193
980	42,74836	2581,209
980	42,84973	2581,176
1000	-150	2578,63
1000	-89,1956	2578,703
1000	-82,1562	2578,544

ABS	DIS_EJE	COTA
1000	-76,0567	2578,56
1000	-59,7488	2578,69
1000	-53,6034	2578,702
1000	-51,0685	2578,515
1000	-42,1965	2578,368
1000	-41,2367	2578,409
1000	-33,5039	2578,448
1000	-33,3918	2578,383
1000	-32,8872	2578,568
1000	-31,0938	2579,094
1000	-28,6598	2580,139
1000	-21,5336	2580,32
1000	-13,9891	2580,326
1000	-10,0842	2580,417
1000	-9,09587	2580,256
1000	-7,86352	2579,307
1000	-4,24037	2578,905
1000	-2,05251	2578,485
1000	0	2578,517
1000	5,711928	2578,607
1000	13,33108	2578,712
1000	18,63537	2580,716
1000	18,70475	2580,761
1000	23,35638	2582,047
1000	29,51264	2582,163
1000	32,48741	2581,18
1000	32,79628	2581,065
1000	32,83495	2581,033



ABS	DIS_EJE	COTA
1020	-150	2578,706
1020	-91,1773	2578,718
1020	-83,5499	2578,559
1020	-76,2633	2578,564
1020	-60,9098	2578,652
1020	-54,4247	2578,647
1020	-52,6571	2578,506
1020	-47,2439	2578,407
1020	-45,7734	2578,483
1020	-37,1023	2578,558
1020	-33,3755	2578,491
1020	-33,0746	2578,417
1020	-32,7328	2578,534
1020	-30,6294	2580,023
1020	-29,909	2580,469
1020	-19,9608	2580,441
1020	-14,2396	2580,461
1020	-9,31108	2580,521
1020	-8,90596	2580,446
1020	-7,15225	2579,073
1020	-4,49201	2579,093
1020	-1,11504	2578,452
1020	0	2578,469
1020	7,132755	2578,576
1020	15,68601	2578,752
1020	20,91092	2581,953
1020	21,15917	2582,021
1020	21,75088	2582,016

ABS	DIS_EJE	COTA
1020	21,76932	2582,014
1020	26,81172	2582,034
1020	29,0795	2581,287
1020	29,6743	2581,027
1020	29,79151	2580,926
1020	30,28773	2580,517
1020	30,60439	2580,247
1040	-150	2578,844
1040	-148,988	2578,823
1040	-103,552	2578,774
1040	-95,4358	2578,639
1040	-81,5041	2578,617
1040	-61,2418	2578,663
1040	-54,5734	2578,635
1040	-52,9087	2578,503
1040	-48,5113	2578,422
1040	-46,908	2578,516
1040	-41,6778	2578,579
1040	-33,6343	2578,406
1040	-33,5621	2578,389
1040	-32,5622	2578,731
1040	-31,7195	2579,322
1040	-29,1917	2580,271
1040	-27,8654	2581,008
1040	-23,0272	2580,989
1040	-10,5148	2580,88
1040	-6,68795	2580,925
1040	-5,85136	2580,337

ABS	DIS_EJE	COTA
1040	-5,45768	2579,871
1040	-4,90643	2579,84
1040	0	2579,307
1040	2,449125	2579,042
1040	3,940262	2578,425
1040	10,15882	2578,626
1040	16,23591	2578,792
1040	17,83018	2579,912
1040	20,29215	2581,731
1040	20,29987	2581,737
1040	20,43937	2581,736
1040	33,12402	2581,592
1040	33,41249	2581,501
1040	35,99512	2580,852
1040	36,88521	2580,1
1040	37,43107	2579,661
1040	37,67139	2579,476
1040	37,82396	2579,355
1060	-150	2578,752
1060	-78,7773	2578,675
1060	-65,4908	2578,454
1060	-62,3616	2578,449
1060	-57,8104	2578,46
1060	-53,3151	2578,441
1060	-52,2705	2578,648
1060	-51,1215	2578,75
1060	-48,277	2579,674
1060	-45,9997	2579,334

ABS	DIS_EJE	COTA
1060	-30,5979	2581,56
1060	-27,9706	2581,843
1060	-27,6628	2582,001
1060	-26,949	2582,04
1060	-14,2132	2581,467
1060	-7,90911	2581,286
1060	-4,31519	2581,131
1060	-3,17609	2581,082
1060	0	2580,755
1060	1,568208	2580,593
1060	1,880447	2580,408
1060	3,181307	2579,89
1060	5,952819	2578,418
1060	16,18984	2578,812
1060	16,68333	2578,83
1060	16,7857	2578,924
1060	17,16191	2579,706
1060	19,59766	2581,131
1060	21,99954	2581,366
1060	25,24222	2581,377
1060	30,38731	2581,366
1060	41,69325	2581,445
1060	44,22231	2579,976
1060	45,9939	2579,064
1060	46,21731	2578,876
1060	46,30365	2578,806
1060	46,34166	2578,777
1060	46,36579	2578,758

ABS	DIS_EJE	COTA
1080	-150	2578,68
1080	-66,8932	2578,59
1080	-65,1439	2578,592
1080	-59,4836	2578,552
1080	-57,9872	2579,602
1080	-55,8808	2581,397
1080	-55,1992	2581,865
1080	-54,7993	2581,837
1080	-48,9999	2581,52
1080	-45,395	2581,207
1080	-39,9661	2580,993
1080	-33,5273	2581,048
1080	-22,6362	2581,196
1080	-22,6041	2581,197
1080	-22,5661	2581,197
1080	-22,5214	2581,192
1080	-8,25895	2579,965
1080	-5,52786	2580,241
1080	-4,65115	2580,022
1080	-4,40153	2580,037
1080	0	2579,315
1080	2,510787	2578,903
1080	4,804674	2578,411
1080	15,92462	2578,707
1080	20,95685	2578,857
1080	23,61827	2579,724
1080	27,65094	2581,067
1080	42,3842	2580,616

ABS	DIS_EJE	COTA
1080	54,23687	2580,271
1100	-150	2578,608
1100	-101,39	2578,555
1100	-91,5969	2578,565
1100	-68,645	2578,403
1100	-64,0544	2578,356
1100	-61,5524	2578,372
1100	-54,8335	2578,394
1100	-45,5255	2578,313
1100	-24,64	2578,157
1100	-20,2999	2578,324
1100	-16,8405	2578,244
1100	-15,2517	2578,709
1100	-7,77446	2580,899
1100	-2,39735	2579,626
1100	-2,30021	2579,598
1100	-2,21746	2579,588
1100	0	2579,155
1100	3,828413	2578,408
1100	3,839142	2578,405
1100	3,859311	2578,405
1100	4,132061	2578,404
1100	18,48233	2578,408
1100	19,5299	2578,685
1100	29,64897	2580,722
1100	55,15779	2579,87
1100	62,05805	2579,669
1120	-150	2578,536

ABS	DIS_EJE	COTA
1120	-135,886	2578,521
1120	-118,05	2578,539
1120	-104,8	2578,446
1120	-81,4316	2578,207
1120	-68,6956	2578,285
1120	-34,493	2578,398
1120	-16,1417	2578,238
1120	-6,57936	2580,977
1120	-6,50044	2581,009
1120	-6,41118	2580,982
1120	-3,68814	2580,061
1120	-1,95322	2580,018
1120	0	2579,74
1120	1,103971	2579,582
1120	2,867113	2579,105
1120	3,524162	2578,991
1120	4,857126	2578,604
1120	16,20112	2578,639
1120	18,56697	2578,628
1120	20,69255	2579,052
1120	32,42236	2580,674
1120	51,27711	2580,034
1120	55,50471	2579,751
1120	57,66668	2579,699
1120	59,00556	2579,715
1140	-150	2578,507
1140	-144,503	2578,513
1140	-140,956	2578,488

ABS	DIS_EJE	COTA
1140	-98,8089	2578,058
1140	-75,8387	2578,199
1140	-18,6942	2578,387
1140	-18,0402	2578,399
1140	-17,5823	2578,399
1140	-15,8608	2578,407
1140	-15,0005	2578,727
1140	-13,6584	2579,196
1140	-7,97463	2581,231
1140	-7,13643	2581,145
1140	-5,25815	2580,625
1140	-4,26107	2580,145
1140	0	2579,654
1140	1,306169	2579,503
1140	2,342337	2579,448
1140	4,307042	2578,755
1140	5,108156	2578,514
1140	18,34828	2578,471
1140	18,54121	2578,47
1140	34,28047	2580,503
1140	35,32703	2580,648
1140	36,44541	2580,61
1140	45,82121	2579,981
1140	50,61593	2579,866
1140	53,58524	2579,903
1160	-150	2579,16
1160	-146,525	2579,187
1160	-143,893	2578,78

ABS	DIS_EJE	COTA
1160	-132,638	2578,077
1160	-116,186	2577,909
1160	-82,9819	2578,113
1160	-50,8663	2578,218
1160	-42,6508	2578,374
1160	-36,8992	2578,371
1160	-15,273	2578,476
1160	-10,5585	2580,228
1160	-5,54732	2581,189
1160	-5,23108	2581,282
1160	-4,97929	2581,165
1160	-2,93722	2579,877
1160	0	2579,613
1160	0,211178	2579,594
1160	3,699416	2579,512
1160	3,870142	2579,447
1160	6,146572	2578,451
1160	15,05451	2578,44
1160	20,59043	2578,429
1160	28,45323	2579,169
1160	38,34571	2580,159
1160	43,56518	2580,033
1160	48,16491	2580,09
1180	-150	2578,22
1180	-148,245	2578,437
1180	-145,932	2578,754
1180	-139,412	2578,824
1180	-123,218	2578,581

ABS	DIS_EJE	COTA
1180	-119,785	2578,372
1180	-117,345	2578,213
1180	-111,286	2577,878
1180	-108,777	2578,117
1180	-108,048	2577,86
1180	-105,774	2577,937
1180	-89,1815	2578,038
1180	-79,2142	2578,07
1180	-64,8634	2578,351
1180	-54,6275	2578,346
1180	-34,3301	2578,446
1180	-21,7569	2578,462
1180	-14,9261	2578,381
1180	-8,9695	2580,48
1180	-7,82234	2581,065
1180	-5,99722	2581,058
1180	-3,59247	2581,185
1180	-0,21999	2580,178
1180	0	2580,172
1180	0,203992	2580,167
1180	0,782966	2580,063
1180	3,589269	2579,845
1180	4,058902	2579,64
1180	8,30985	2578,215
1180	20,76603	2578,096
1180	23,06054	2578,097
1180	23,95884	2578,252
1180	38,16812	2580,234

ABS	DIS_EJE	COTA
1180	42,44317	2580,289
1200	-150	2578,466
1200	-116,616	2577,944
1200	-87,5911	2578,086
1200	-71,7828	2578,115
1200	-62,5478	2578,354
1200	-54,8633	2578,345
1200	-42,862	2578,414
1200	-27,0364	2578,408
1200	-16,4307	2578,24
1200	-13,9153	2578,921
1200	-11,1666	2580,373
1200	-10,5781	2580,764
1200	-9,57146	2580,801
1200	-6,19475	2580,957
1200	-3,95453	2581,057
1200	0	2580,866
1200	0,147455	2580,859
1200	0,724861	2580,624
1200	7,99789	2579,674
1200	10,82203	2579,218
1200	13,12712	2578,559
1200	20,24758	2578,554
1200	27,70932	2578,425
1200	35,16124	2579,93
1200	36,41359	2580,142
1200	40,55039	2580,836
1220	-150	2578,532

ABS	DIS_EJE	COTA
1220	-141,183	2578,539
1220	-134,505	2578,456
1220	-113,424	2578,064
1220	-90,337	2578,135
1220	-69,227	2578,141
1220	-61,7796	2578,356
1220	-54,9276	2578,345
1220	-45,6133	2578,399
1220	-27,8188	2578,363
1220	-23,4425	2578,285
1220	-18,4468	2579,939
1220	-16,0325	2580,6
1220	-13,5772	2580,751
1220	-5,81828	2581,04
1220	0	2580,997
1220	0,676172	2580,992
1220	1,310409	2580,573
1220	2,952851	2580,432
1220	7,645103	2579,909
1220	15,97649	2578,581
1220	30,14842	2578,714
1220	30,59909	2578,715
1220	44,79086	2581,163
1220	44,85346	2581,175
1220	44,86146	2581,18
1240	-150	2578,573
1240	-146,579	2578,56
1240	-141,269	2578,563

ABS	DIS_EJE	COTA
1240	-130,604	2578,427
1240	-118,073	2578,187
1240	-99,7139	2578,203
1240	-68,8009	2578,162
1240	-61,8605	2578,358
1240	-54,8741	2578,344
1240	-46,4157	2578,388
1240	-25,7038	2578,319
1240	-22,4879	2580,103
1240	-22,3767	2580,136
1240	-21,4925	2580,176
1240	-21,0135	2580,209
1240	-19,9688	2580,236
1240	-3,56447	2581,334
1240	-1,92151	2580,496
1240	0	2580,224
1240	0,192319	2580,197
1240	4,91614	2579,523
1240	10,2558	2579,139
1240	11,37694	2578,859
1240	11,69722	2578,75
1240	20,24695	2578,7
1240	29,20636	2578,509
1240	31,67629	2578,936
1240	34,79066	2579,926
1240	35,51451	2580,464
1260	-150	2578,547
1260	-136,894	2578,398

ABS	DIS_EJE	COTA
1260	-134,41	2578,355
1260	-128,826	2578,347
1260	-70,1727	2578,184
1260	-62,8539	2578,36
1260	-54,6609	2578,344
1260	-45,9394	2578,377
1260	-32,4852	2578,32
1260	-31,0053	2579,38
1260	-30,0585	2579,729
1260	-19,293	2580,19
1260	-9,13349	2580,853
1260	-8,09282	2580,887
1260	-7,58527	2580,822
1260	-6,68777	2580,639
1260	0	2579,474
1260	1,546155	2579,205
1260	3,104449	2578,834
1260	4,012853	2578,481
1260	10,13067	2578,413
1260	24,08766	2578,467
1260	29,46272	2579,892
1260	31,42613	2580,299
1280	-150	2580,971
1280	-147,841	2580,531
1280	-143,128	2580,101
1280	-139,217	2578,279
1280	-134,643	2578,31
1280	-126,48	2578,395

ABS	DIS_EJE	COTA
1280	-69,9989	2578,187
1280	-60,6163	2578,358
1280	-48,627	2578,337
1280	-41,8679	2578,353
1280	-35,0062	2578,321
1280	-34,4214	2578,778
1280	-32,9005	2579,375
1280	-10,2933	2580,21
1280	-9,29321	2580,266
1280	-8,46846	2580,136
1280	-7,71726	2579,985
1280	0	2578,881
1280	4,023774	2578,305
1280	11,93776	2578,412
1280	21,80967	2578,444
1280	28,11078	2579,974
1280	30,06713	2580,639
1300	-150	2581,141
1300	-148,578	2580,865
1300	-143,222	2580,45
1300	-138,488	2578,305
1300	-134,98	2578,331
1300	-129,289	2578,395
1300	-57,178	2578,108
1300	-42,1074	2578,339
1300	-36,8727	2578,331
1300	-35,0167	2578,617
1300	-34,3697	2578,871

ABS	DIS_EJE	COTA
1300	-30,3276	2579,007
1300	-6,43242	2579,554
1300	0	2578,88
1300	3,047707	2578,561
1300	6,34266	2578,195
1300	8,1842	2578,229
1300	19,42039	2578,434
1300	29,19156	2579,942
1300	32,74658	2580,716
1320	-150	2579,491
1320	-147,411	2579,054
1320	-145,584	2578,965
1320	-143,764	2578,214
1320	-136,501	2578,276
1320	-126,607	2578,396
1320	-45,2666	2578,041
1320	-37,8692	2578,111
1320	-36,9926	2578,244
1320	-36,0994	2578,885
1320	-33,9897	2578,483
1320	-19,866	2578,693
1320	-3,85954	2578,95
1320	-0,7807	2578,784
1320	0	2578,693
1320	1,195793	2578,555
1320	3,272783	2578,241
1320	7,180024	2578,296
1320	18,7595	2578,421

ABS	DIS_EJE	COTA
1320	24,68032	2580,018
1320	28,77755	2580,904
1320	31,94042	2580,994
1340	-150	2580,475
1340	-147,171	2581,128
1340	-144,863	2580,197
1340	-136,096	2578,261
1340	-124,897	2578,399
1340	-40,7007	2578,019
1340	-36,5458	2577,993
1340	-36,3878	2577,984
1340	-35,139	2578,876
1340	-33,3688	2578,669
1340	-30,7823	2578,215
1340	-27,3411	2578,219
1340	-22,2379	2578,233
1340	-0,10641	2578,686
1340	0	2578,684
1340	2,005564	2578,648
1340	3,005667	2578,568
1340	10,09351	2578,55
1340	18,13486	2578,355
1340	23,18466	2580,014
1340	25,88435	2581,062
1340	32,1752	2581,133
1340	35,95295	2581,052
1340	42,46773	2580,871
1340	48,49932	2580,97

ABS	DIS_EJE	COTA
1340	52,61758	2581,068
1360	-150	2578,908
1360	-147,222	2578,213
1360	-144,993	2578,243
1360	-143,197	2578,153
1360	-139,658	2578,185
1360	-122,508	2578,397
1360	-68,9466	2578,156
1360	-29,7216	2577,913
1360	-28,1338	2577,823
1360	-27,9957	2577,921
1360	-27,3138	2577,841
1360	-20,3272	2578,468
1360	-18,9563	2578,497
1360	-0,2599	2578,718
1360	0	2578,675
1360	2,894736	2578,196
1360	3,318483	2578,197
1360	8,216246	2578,128
1360	16,80528	2578,143
1360	20,93891	2578,474
1360	23,49716	2580,081
1360	25,93376	2580,866
1360	27,7826	2580,986
1360	37,87497	2581,246
1360	41,03079	2581,17
1360	42,54814	2581,155
1360	45,61379	2581,189

ABS	DIS_EJE	COTA
1360	56,40538	2580,962
1360	58,8782	2580,896
1360	70,32033	2581,079
1360	72,08637	2581,12
1380	-150	2579,826
1380	-149,933	2579,817
1380	-142,805	2579,252
1380	-140,13	2578,983
1380	-138,053	2579,004
1380	-135,312	2578,225
1380	-127,162	2578,301
1380	-119,556	2578,395
1380	-96,5884	2578,291
1380	-56,8964	2578,044
1380	-21,9192	2578
1380	-13,8035	2578,755
1380	-12,1311	2578,902
1380	-10,0364	2578,909
1380	-0,20931	2578,756
1380	0	2578,718
1380	1,477824	2578,455
1380	3,164745	2578,187
1380	11,23356	2578,25
1380	16,68178	2578,255
1380	22,06446	2578,508
1380	26,27252	2578,697
1380	29,06432	2578,496
1380	32,56733	2578,416

ABS	DIS_EJE	COTA
1380	35,46344	2578,38
1380	40,10031	2578,38
1380	45,6942	2578,359
1380	54,62728	2578,485
1380	58,67163	2579,015
1380	65,65775	2579,258
1380	68,67123	2579,089
1380	79,32613	2579,407
1380	84,28248	2579,89
1380	86,41531	2580,35
1380	87,58756	2581,068
1380	88,59795	2581,038
1380	89,90869	2581,07
1380	97,45958	2581,524
1380	102,594	2581,519
1400	-150	2578,65
1400	-142,501	2578,576
1400	-136,232	2578,547
1400	-129,501	2578,697
1400	-56,0919	2578,529
1400	-23,6948	2578,511
1400	-20,3969	2578,496
1400	-14,4598	2578,453
1400	-13,3923	2578,555
1400	-9,2176	2579,43
1400	-8,80117	2579,413
1400	-0,11531	2578,786
1400	0	2578,765

ABS	DIS_EJE	COTA
1400	1,616152	2578,469
1400	6,042316	2578,362
1400	15,22286	2578,335
1400	19,52556	2578,279
1400	26,24653	2578,596
1400	34,44935	2578,654
1400	35,29395	2578,604
1400	37,22845	2578,42
1400	38,94939	2578,255
1400	40,45785	2578,261
1400	50,84085	2578,278
1400	59,18215	2578,5
1400	59,19878	2578,5
1400	64,8523	2579,599
1400	69,63164	2579,825
1400	73,16638	2580,286
1400	75,33347	2580,808
1400	79,85238	2580,954
1400	83,34733	2581,092
1400	86,35957	2581,149
1400	86,51694	2581,153
1420	-150	2579,367
1420	-149,631	2579,339
1420	-146,761	2578,881
1420	-145,68	2579,031
1420	-40,5144	2578,692
1420	-33,9492	2578,473
1420	-22,301	2578,465



ABS	DIS_EJE	COTA
1420	-11,6502	2578,512
1420	-10,9201	2578,51
1420	-8,48431	2579,511
1420	-7,80117	2579,876
1420	-3,76106	2579,906
1420	-1,92298	2579,886
1420	0	2579,533
1420	4,428101	2578,721
1420	4,781768	2578,618
1420	5,341614	2578,602
1420	5,634787	2578,599
1420	20,34365	2578,361
1420	20,69489	2578,377
1420	22,17741	2578,398
1420	34,17907	2578,655
1420	37,99161	2578,642
1420	38,3708	2578,476
1420	40,8506	2578,196
1420	44,17366	2578,24
1420	50,39595	2578,292
1420	55,31446	2578,481
1420	59,67688	2580,384
1420	60,38586	2580,72
1420	61,26846	2580,732
1420	68,74131	2581,006
1420	71,89622	2580,922
1420	72,34602	2580,906
1420	81,96251	2581,094

ABS	DIS_EJE	COTA
1420	83,02103	2581,125
1440	-150	2580,673
1440	-142,752	2580,708
1440	-136,189	2580,486
1440	-134,57	2580,464
1440	-131,295	2580,1
1440	-128,588	2578,887
1440	-124,465	2578,588
1440	-122,031	2578,499
1440	-120,751	2578,496
1440	-116,8	2578,275
1440	-17,9516	2578,573
1440	-5,91119	2578,6
1440	-5,78007	2578,752
1440	-4,205	2579,59
1440	-1,84538	2579,484
1440	0	2579,696
1440	1,767835	2579,9
1440	3,571444	2579,28
1440	7,292808	2579,026
1440	7,666411	2579,016
1440	9,021694	2578,988
1440	22,6888	2578,606
1440	29,12756	2578,682
1440	38,58376	2578,644
1440	39,11427	2578,389
1440	41,04992	2578,178
1440	44,12232	2578,242

ABS	DIS_EJE	COTA
1440	50,60391	2578,333
1440	53,5378	2578,462
1440	55,41319	2579,432
1440	58,20691	2581,026
1440	63,46796	2581,217
1440	63,50572	2581,216
1440	63,54995	2581,215
1440	63,56728	2581,216
1440	74,50281	2580,963
1440	76,79152	2580,893
1440	84,98729	2581,029
1440	87,36666	2581,091
1460	-150	2578,802
1460	-147,139	2578,802
1460	-146,052	2578,802
1460	-142,687	2578,293
1460	-140,904	2578,452
1460	-138,804	2579,098
1460	-135,134	2580,306
1460	-133,989	2580,441
1460	-128,033	2580,149
1460	-126,026	2579,64
1460	-124,029	2578,745
1460	-122,351	2578,623
1460	-115,802	2578,385
1460	-112,36	2578,376
1460	-111,988	2578,355
1460	-102,681	2578,383

ABS	DIS_EJE	COTA
1460	-83,7305	2578,425
1460	-6,06997	2578,588
1460	-3,77494	2579,756
1460	-3,66175	2579,891
1460	0	2579,87
1460	0,308113	2579,868
1460	0,709695	2579,862
1460	1,283667	2579,821
1460	6,736638	2578,972
1460	17,40483	2578,799
1460	22,15747	2578,7
1460	25,32214	2578,689
1460	25,67115	2578,561
1460	35,63487	2578,33
1460	37,3577	2578,252
1460	41,64856	2578,063
1460	43,08023	2578,096
1460	47,57418	2578,178
1460	58,05224	2578,616
1460	58,15054	2578,62
1460	58,20014	2578,644
1460	58,45211	2578,714
1460	63,93189	2580,418
1460	64,63819	2580,752
1460	65,2721	2580,776
1460	68,34715	2580,963
1460	76,9158	2581,105
1460	77,87822	2581,13

ABS	DIS_EJE	COTA
1480	-150	2578,703
1480	-145,603	2578,763
1480	-143,227	2578,843
1480	-142,343	2578,802
1480	-140,691	2578,802
1480	-135,31	2578,802
1480	-134,53	2578,893
1480	-127,995	2579,596
1480	-127,66	2579,727
1480	-126,825	2579,646
1480	-125,937	2579,939
1480	-123,093	2578,918
1480	-122,047	2578,833
1480	-121,008	2579,108
1480	-117,259	2578,909
1480	-114,294	2578,696
1480	-110,852	2578,639
1480	-110,243	2578,659
1480	-78,8582	2578,334
1480	-16,3499	2578,531
1480	-9,45664	2578,546
1480	-9,2903	2578,631
1480	-8,81872	2578,837
1480	-8,80002	2578,835
1480	-5,9396	2580,042
1480	-4,50947	2580,076
1480	-1,32854	2579,88
1480	0	2579,509

ABS	DIS_EJE	COTA
1480	0,648385	2579,328
1480	2,219779	2579,046
1480	7,63194	2578,651
1480	19,10928	2578,34
1480	22,27974	2578,268
1480	27,18353	2578,686
1480	29,33533	2578,82
1480	29,50632	2578,779
1480	34,30049	2578,475
1480	37,14875	2578,16
1480	40,96672	2578,092
1480	43,72162	2578,06
1480	45,70271	2578,44
1480	46,34072	2578,475
1480	48,49771	2578,553
1480	55,73256	2578,795
1480	56,53167	2578,716
1480	60,09207	2579,084
1480	62,29264	2579,231
1480	64,53454	2580,286
1480	65,37323	2581,069
1480	66,15401	2581,036
1480	66,76055	2581,059
1480	70,74309	2581,342
1480	71,62257	2581,29
1500	-150	2578,957
1500	-142,969	2578,806
1500	-142,768	2578,789

ABS	DIS_EJE	COTA
1500	-142,615	2578,798
1500	-140,926	2578,809
1500	-138,926	2578,808
1500	-133,403	2578,807
1500	-130,753	2578,579
1500	-130,438	2578,588
1500	-129,682	2578,99
1500	-126,92	2580,446
1500	-122,945	2580,008
1500	-121,61	2579,857
1500	-113,686	2578,641
1500	-111,861	2578,502
1500	-94,6373	2578,6
1500	-84,6734	2578,465
1500	-75,6458	2578,448
1500	-52,7902	2578,409
1500	-42,4437	2578,301
1500	-26,5972	2578,351
1500	-17,2636	2579,375
1500	-12,96	2580,004
1500	-1,80007	2580,282
1500	-1,53694	2580,288
1500	-1,48259	2580,284
1500	-1,44882	2580,275
1500	-0,35096	2580,078
1500	0	2579,983
1500	3,618665	2579,009
1500	9,055976	2578,243

ABS	DIS_EJE	COTA
1500	23,55268	2578,207
1500	24,15214	2578,204
1500	24,27442	2578,208
1500	36,90913	2578,271
1500	44,16831	2578,584
1500	44,46006	2578,535
1500	46,13433	2578,589
1500	47,29524	2578,635
1500	50,20509	2579,436
1500	59,13355	2581,458
1500	61,09657	2581,433
1500	68,21841	2581,494
1520	-150	2578,983
1520	-145,033	2580,144
1520	-141,84	2580,297
1520	-136,3	2580,002
1520	-132,68	2579,195
1520	-131,342	2578,698
1520	-130,357	2578,636
1520	-124,884	2578,466
1520	-120,753	2578,445
1520	-118,563	2578,525
1520	-37,9148	2578,321
1520	-33,0242	2578,285
1520	-32,9122	2578,364
1520	-32,7696	2578,385
1520	-21,6752	2579,851
1520	-21,1856	2580,296

ABS	DIS_EJE	COTA
1520	-18,6912	2580,985
1520	-10,9752	2580,723
1520	-6,25943	2580,39
1520	-3,01554	2578,888
1520	-2,67927	2578,729
1520	0	2578,616
1520	6,794443	2578,329
1520	7,02435	2578,321
1520	7,595712	2578,327
1520	15,35314	2578,421
1520	23,84371	2578,505
1520	24,37251	2578,513
1520	29,30788	2578,349
1520	37,25094	2578,669
1520	45,87491	2579,316
1520	48,09247	2579,69
1520	50,73332	2580,761
1520	51,38385	2580,6
1520	53,99377	2580,517
1520	65,19564	2580,621
1520	71,53002	2580,382
1520	90,78195	2580,12
1540	-150	2578,436
1540	-125,404	2578,345
1540	-110,825	2578,417
1540	-93,1584	2578,492
1540	-83,3803	2578,499
1540	-64,0788	2578,485

ABS	DIS_EJE	COTA
1540	-33,0716	2578,317
1540	-28,1711	2578,934
1540	-23,5484	2579,844
1540	-22,8624	2580,781
1540	-18,1474	2580,684
1540	-17,8563	2580,646
1540	-17,5279	2580,516
1540	-16,7819	2580,146
1540	-15,3729	2579,697
1540	-7,34327	2579,276
1540	-6,54817	2578,86
1540	-5,7313	2578,345
1540	0	2577,981
1540	4,705346	2577,681
1540	6,532846	2577,577
1540	8,29979	2577,557
1540	17,53983	2577,668
1540	25,65304	2578,543
1540	26,08592	2578,685
1540	26,30365	2578,678
1540	26,73482	2578,691
1540	27,18029	2578,759
1540	27,73203	2578,853
1540	30,16422	2578,749
1540	35,19213	2578,853
1540	40,99018	2578,736
1540	43,4557	2578,832
1540	50,60895	2578,634

ABS	DIS_EJE	COTA
1540	54,35963	2578,673
1540	56,58977	2578,539
1540	61,15661	2578,137
1540	66,92431	2578,364
1540	80,62611	2578,805
1540	80,63163	2578,805
1540	84,55699	2577,883
1540	84,74458	2577,878
1540	89,11534	2577,764
1540	94,63342	2577,82
1540	128,728	2578,644
1540	129,1004	2578,647
1540	134,337	2577,891
1540	134,8067	2577,89
1540	135,0661	2577,891
1540	147,0489	2577,969
1540	148,0024	2577,973
1540	150	2577,977
1560	-150	2578,595
1560	-140,9	2578,596
1560	-133,841	2578,723
1560	-131,728	2578,466
1560	-121,606	2578,418
1560	-101,013	2578,503
1560	-91,5238	2578,534
1560	-79,2926	2578,532
1560	-59,3257	2578,497
1560	-31,9861	2578,295

ABS	DIS_EJE	COTA
1560	-30,9418	2578,313
1560	-26,8412	2578,256
1560	-26,0088	2578,773
1560	-24,4024	2579,084
1560	-20,4687	2579,823
1560	-20,2842	2580,065
1560	-19,1947	2580,013
1560	-14,6715	2579,234
1560	-12,0101	2579,06
1560	-8,15413	2579,169
1560	-6,77331	2578,58
1560	-4,41439	2578,146
1560	-0,17435	2577,861
1560	0	2577,85
1560	5,234621	2577,534
1560	11,28495	2577,531
1560	15,49909	2577,6
1560	15,86848	2578,022
1560	16,66546	2578,456
1560	18,82242	2578,264
1560	20,21936	2578,781
1560	25,41124	2578,595
1560	25,93142	2578,611
1560	26,44833	2578,596
1560	31,51958	2578,682
1560	37,94737	2578,487
1560	50,42716	2578,416
1560	56,42204	2578,45

ABS	DIS_EJE	COTA
1560	64,25193	2578,44
1560	79,34096	2578,837
1560	86,75317	2578,806
1560	94,03852	2578,713
1560	104,4727	2578,531
1560	112,5307	2578,466
1560	118,6048	2578,57
1560	135,236	2577,901
1560	147,493	2577,889
1560	150	2577,891
1580	-150	2579,084
1580	-149,528	2579,091
1580	-143,839	2578,435
1580	-118,566	2578,324
1580	-107,665	2578,374
1580	-86,173	2578,454
1580	-79,6114	2578,456
1580	-68,0482	2578,441
1580	-50,2313	2578,321
1580	-40,7489	2578,465
1580	-31,0916	2578,329
1580	-21,8567	2578,205
1580	-15,8518	2578,22
1580	-15,0073	2578,999
1580	-12,9873	2579,489
1580	-12,308	2579,534
1580	-4,82621	2579,189
1580	-4,64061	2579,191

ABS	DIS_EJE	COTA
1580	-3,37596	2578,96
1580	0	2578,353
1580	4,572562	2577,531
1580	11,14215	2577,781
1580	16,18492	2577,888
1580	17,81251	2578,047
1580	19,35726	2578,343
1580	20,34367	2578,793
1580	26,67389	2578,64
1580	28,07496	2578,81
1580	33,89519	2579,973
1580	34,34342	2579,93
1580	35,58994	2579,663
1580	41,31988	2578,288
1580	45,78618	2578,154
1580	48,2613	2578,303
1580	52,95512	2578,37
1580	62,40455	2578,432
1580	65,65147	2578,429
1580	73,86589	2578,653
1580	86,02222	2578,669
1580	95,45695	2578,603
1580	104,3202	2578,496
1580	112,6271	2578,47
1580	118,1228	2578,598
1580	135,5661	2577,904
1580	146,9316	2577,895
1580	150	2577,899

ABS	DIS_EJE	COTA
1600	-150	2578,767
1600	-146,381	2578,798
1600	-138,48	2578,798
1600	-135,39	2578,799
1600	-125,99	2578,8
1600	-120,327	2578,801
1600	-113,029	2578,802
1600	-106,678	2578,802
1600	-101,85	2578,802
1600	-98,952	2578,802
1600	-94,9567	2578,802
1600	-90,6085	2579,013
1600	-86,7809	2579,162
1600	-81,3061	2579,574
1600	-81,0866	2579,589
1600	-81,0578	2579,588
1600	-80,9673	2579,609
1600	-79,3977	2579,9
1600	-78,7937	2580,042
1600	-77,9538	2579,845
1600	-76,3799	2579,866
1600	-72,569	2579,661
1600	-58,668	2578,551
1600	-57,8601	2578,5
1600	-39,4103	2578,624
1600	-18,5582	2578,69
1600	-14,9639	2578,594
1600	-9,62488	2579,201

ABS	DIS_EJE	COTA
1600	-6,9705	2579,706
1600	-4,62137	2579,453
1600	-3,75934	2579,177
1600	-2,13799	2579,205
1600	0	2578,776
1600	2,698311	2578,235
1600	5,733119	2577,677
1600	8,871958	2577,779
1600	17,01639	2577,896
1600	17,99334	2578,39
1600	20,01339	2578,83
1600	30,10083	2579,796
1600	31,67271	2579,792
1600	33,46437	2580,042
1600	34,91314	2579,888
1600	35,90154	2579,605
1600	38,90416	2578,484
1600	42,52542	2578,53
1600	46,80899	2578,382
1600	52,92757	2578,398
1600	59,65663	2578,454
1600	69,6165	2578,453
1600	78,55938	2578,674
1600	87,54809	2578,68
1600	103,5604	2579,054
1600	107,7516	2579,196
1600	112,9114	2579,013
1600	120,0465	2578,814

ABS	DIS_EJE	COTA
1600	128,4064	2578,177
1600	141,8627	2577,998
1600	150	2578,066
1620	-150	2578,54
1620	-132,699	2578,696
1620	-116,42	2578,684
1620	-111,255	2578,972
1620	-107,293	2579,094
1620	-102,959	2579,508
1620	-102,197	2579,476
1620	-101,167	2579,13
1620	-94,3648	2579,038
1620	-91,3673	2578,855
1620	-91,1309	2578,848
1620	-89,8102	2578,847
1620	-80,0672	2578,843
1620	-70,8921	2580,843
1620	-66,1001	2581,737
1620	-60,928	2581,683
1620	-59,6739	2581,646
1620	-50,4088	2583,883
1620	-50,1583	2583,936
1620	-39,4645	2583,683
1620	-32,6603	2583,964
1620	-27,4837	2583,807
1620	-21,7763	2583,553
1620	-19,3482	2584,114
1620	-15,2756	2584,031

ABS	DIS_EJE	COTA
1620	-13,3936	2583,345
1620	-9,98648	2581,936
1620	-8,10557	2580,952
1620	-0,35217	2578,205
1620	0	2578,139
1620	3,068207	2577,563
1620	12,98611	2577,789
1620	15,11829	2577,893
1620	16,88503	2578,466
1620	16,97716	2578,494
1620	20,39325	2578,858
1620	32,10464	2580,037
1620	32,16388	2580,069
1620	32,31451	2580,086
1620	34,95153	2579,86
1620	35,93735	2579,593
1620	38,51338	2578,575
1620	39,99762	2578,652
1620	47,83964	2578,451
1620	56,74759	2578,525
1620	60,84072	2578,576
1620	68,80835	2578,608
1620	73,14459	2578,831
1620	85,17058	2578,597
1620	89,27696	2578,31
1620	90,8888	2578,294
1620	93,18617	2578,061
1620	93,3536	2578,065

ABS	DIS_EJE	COTA
1620	101,6823	2578,281
1620	102,2553	2578,291
1620	103,2783	2578,344
1620	108,3918	2578,726
1620	109,9639	2578,562
1620	110,521	2578,265
1620	119,7801	2578
1620	125,3165	2577,938
1620	132,493	2577,976
1620	135,5293	2578,018
1620	139,8048	2578,128
1620	150	2578,118
1640	-150	2579,209
1640	-144,094	2579,079
1640	-142,646	2579,656
1640	-136,361	2579,604
1640	-130,456	2579,607
1640	-122,637	2578,97
1640	-121,94	2578,713
1640	-118,969	2578,627
1640	-117,214	2578,78
1640	-116,455	2578,886
1640	-109,044	2578,884
1640	-108,961	2578,884
1640	-108,921	2578,886
1640	-106,488	2578,813
1640	-104,167	2580,078
1640	-95,9125	2582,803

ABS	DIS_EJE	COTA
1640	-95,4987	2582,798
1640	-95,0979	2582,808
1640	-85,9514	2582,849
1640	-83,4747	2582,878
1640	-82,5995	2583,226
1640	-75,8712	2583,627
1640	-71,8923	2583,698
1640	-68,1216	2583,697
1640	-60,411	2583,519
1640	-52,8555	2583,508
1640	-43,9546	2583,697
1640	-39,7058	2583,744
1640	-39,6366	2583,744
1640	-39,5979	2583,741
1640	-21,2045	2583,356
1640	-19,1428	2583,939
1640	-17,8294	2584,386
1640	-12,3507	2584,249
1640	-12,0495	2584,24
1640	-10,5795	2583,505
1640	-7,15178	2582,337
1640	-5,35563	2581,586
1640	0	2578,901
1640	2,648589	2577,573
1640	8,072899	2577,787
1640	14,09617	2577,889
1640	14,27971	2577,888
1640	14,78532	2578,659

ABS	DIS_EJE	COTA
1640	15,75609	2578,765
1640	17,04018	2578,597
1640	19,01207	2578,555
1640	23,40844	2578,673
1640	27,55601	2578,718
1640	28,12875	2579,046
1640	29,75025	2579,26
1640	30,33229	2579,424
1640	35,02233	2578,165
1640	35,30173	2578,053
1640	37,59602	2578,155
1640	40,89049	2578,374
1640	41,69956	2578,36
1640	55,3565	2578,499
1640	58,16545	2578,54
1640	67,30833	2578,605
1640	71,92364	2578,858
1640	88,92459	2578,683
1640	89,55887	2578,643
1640	101,4028	2578,799
1640	105,3421	2578,858
1640	105,8565	2579,133
1640	109,3327	2580,295
1640	109,8997	2580,243
1640	120,1539	2579,998
1640	123,8587	2580,125
1640	130,5648	2579,466
1640	130,6638	2579,421



ABS	DIS_EJE	COTA
1640	131,4825	2579,405
1640	141,9547	2579,686
1640	144,4843	2579,741
1640	150	2579,57
1660	-150	2579,712
1660	-149,575	2579,715
1660	-140,235	2579,648
1660	-138,833	2579,597
1660	-137,838	2579,487
1660	-131,751	2578,905
1660	-126,447	2578,427
1660	-124,175	2578,798
1660	-123,37	2578,897
1660	-120,373	2578,896
1660	-115,289	2578,894
1660	-114,649	2578,818
1660	-113,439	2578,821
1660	-104,797	2583,144
1660	-104,788	2583,149
1660	-104,786	2583,149
1660	-104,786	2583,149
1660	-104,772	2583,15
1660	-98,9447	2583,377
1660	-95,3615	2582,366
1660	-95,1515	2582,361
1660	-94,9294	2582,422
1660	-94,1421	2582,423
1660	-92,1129	2582,438

ABS	DIS_EJE	COTA
1660	-52,864	2582,797
1660	-45,6102	2582,929
1660	-43,2071	2582,473
1660	-38,1008	2583,581
1660	-36,6267	2583,634
1660	-33,2506	2583,233
1660	-30,9962	2583,215
1660	-25,0835	2583,358
1660	-18,7376	2583,501
1660	-18,3363	2583,643
1660	-15,9512	2584,51
1660	-15,1527	2584,482
1660	-13,2315	2583,754
1660	-11,053	2583,513
1660	-6,41544	2582,283
1660	-4,70467	2581,61
1660	0	2579,297
1660	2,685325	2577,976
1660	11,29166	2577,851
1660	13,46907	2577,888
1660	13,48984	2577,888
1660	13,6217	2578,09
1660	17,39886	2579,035
1660	18,54441	2578,887
1660	27,11307	2578,713
1660	27,32992	2578,718
1660	29,59992	2579,591
1660	30,45585	2579,583

ABS	DIS_EJE	COTA
1660	31,37146	2579,563
1660	31,39846	2579,55
1660	34,4402	2578,416
1660	35,30501	2578,442
1660	64,57774	2578,707
1660	74,55949	2578,496
1660	78,778	2578,487
1660	88,69138	2578,658
1660	88,86141	2578,647
1660	89,38349	2578,621
1660	103,4718	2578,686
1660	104,1565	2578,581
1660	107,3874	2577,786
1660	109,2078	2577,775
1660	110,6299	2577,785
1660	122,308	2577,936
1660	134,0701	2578,205
1660	150	2578,153
1680	-150	2579,463
1680	-148,058	2579,45
1680	-140,456	2579,157
1680	-135,967	2578,648
1680	-132,59	2578,865
1680	-132,355	2578,91
1680	-126,879	2578,907
1680	-124,203	2578,906
1680	-123,234	2579,083
1680	-122,154	2579,02

ABS	DIS_EJE	COTA
1680	-119,004	2580,421
1680	-114,482	2582,777
1680	-110,815	2582,842
1680	-107,999	2582,8
1680	-106,604	2583,588
1680	-104,024	2583,472
1680	-99,606	2583,463
1680	-95,2538	2582,311
1680	-57,6954	2582,161
1680	-42,4315	2582,153
1680	-39,0145	2582,662
1680	-36,4398	2583,342
1680	-35,2981	2583,612
1680	-34,7533	2583,705
1680	-34,1603	2583,62
1680	-26,7745	2583,309
1680	-23,6459	2583,394
1680	-21,1236	2584,3
1680	-19,3361	2584,455
1680	-13,626	2584,255
1680	-12,0843	2584,205
1680	-9,58292	2583,555
1680	-6,20847	2581,308
1680	-4,70842	2580,339
1680	-3,90064	2580,084
1680	0	2579,236
1680	0,765442	2579,069
1680	3,558404	2578,435

ABS	DIS_EJE	COTA
1680	3,939471	2578,356
1680	15,36269	2577,904
1680	15,71731	2577,888
1680	15,79918	2577,914
1680	19,71738	2579,114
1680	24,7382	2578,783
1680	29,50678	2578,631
1680	29,70386	2578,764
1680	30,92267	2579,364
1680	31,44673	2579,327
1680	32,66842	2579,351
1680	33,77019	2579,127
1680	35,49412	2578,262
1680	54,57417	2578,831
1680	65,21982	2579,116
1680	82,26372	2579,334
1680	84,77865	2579,334
1680	85,06826	2579,339
1680	86,33469	2579,256
1680	109,3929	2577,829
1680	113,4181	2578,123
1680	128,7068	2578,484
1680	135,5358	2578,465
1680	139,0027	2577,933
1680	150	2577,947
1700	-150	2578,586
1700	-148,747	2578,573
1700	-144,935	2578,931

ABS	DIS_EJE	COTA
1700	-142,717	2578,924
1700	-140,527	2578,922
1700	-136,385	2578,92
1700	-133,616	2578,919
1700	-131,154	2579,3
1700	-130,017	2579,507
1700	-128,885	2580,044
1700	-123,598	2582,568
1700	-120,557	2582,595
1700	-120,233	2582,944
1700	-117,062	2582,478
1700	-108,54	2582,336
1700	-108,284	2582,481
1700	-103,662	2582,251
1700	-94,507	2582,278
1700	-67,9584	2582,227
1700	-41,5137	2582,141
1700	-39,8348	2582,54
1700	-39,0141	2582,678
1700	-33,5432	2582,898
1700	-25,555	2583,644
1700	-23,4592	2583,844
1700	-18,8704	2584,235
1700	-15,9152	2584,166
1700	-10,683	2583,993
1700	-7,59632	2582,054
1700	-4,44568	2579,901
1700	0	2579,047

ABS	DIS_EJE	COTA
1700	0,267409	2578,995
1700	3,996578	2578,387
1700	12,77959	2578,05
1700	16,42698	2577,888
1700	20,36282	2579,108
1700	20,98064	2579,297
1700	23,6292	2579,124
1700	29,7538	2578,907
1700	30,91331	2579,084
1700	34,00175	2578,288
1700	35,63472	2577,957
1700	48,74247	2578,298
1700	58,91114	2578,679
1700	115,5885	2578,279
1700	128,4242	2577,899
1700	131,6944	2577,932
1700	150	2577,971
1720	-150	2579,332
1720	-146,748	2579,25
1720	-142,047	2579,028
1720	-140,405	2578,829
1720	-139,299	2578,924
1720	-137,087	2578,915
1720	-132,09	2578,914
1720	-129,963	2578,913
1720	-128,951	2579,089
1720	-127,86	2579,317
1720	-127,465	2579,295

ABS	DIS_EJE	COTA
1720	-121,989	2582,085
1720	-121,021	2582,655
1720	-120,351	2582,666
1720	-108,915	2582,404
1720	-108,492	2582,635
1720	-102,679	2582,256
1720	-94,5489	2582,277
1720	-55,3442	2582,194
1720	-39,5683	2582,144
1720	-37,7411	2582,58
1720	-27,0784	2583,517
1720	-25,5102	2583,51
1720	-23,8777	2583,798
1720	-20,197	2584,15
1720	-16,4854	2584,224
1720	-11,5457	2584,126
1720	-6,87937	2580,714
1720	-6,30211	2580,123
1720	-1,98094	2579,254
1720	-0,06993	2578,949
1720	0	2578,935
1720	3,248682	2578,298
1720	11,96104	2578,065
1720	16,84198	2577,888
1720	17,99979	2578,23
1720	20,36328	2579,177
1720	25,17362	2578,782
1720	25,94986	2579,141

ABS	DIS_EJE	COTA
1720	27,97764	2579,074
1720	28,24012	2579,134
1720	31,8387	2577,929
1720	31,92515	2577,875
1720	61,65318	2577,888
1720	127,6541	2577,984
1720	136,075	2577,97
1720	141,4852	2578,058
1720	147,6088	2577,969
1720	150	2577,967
1740	-150	2579,707
1740	-149,94	2579,707
1740	-145,4	2579,47
1740	-136,874	2578,428
1740	-135,786	2578,539
1740	-134,214	2578,906
1740	-130,829	2578,906
1740	-127,57	2578,906
1740	-126,815	2579,073
1740	-125,871	2579,025
1740	-122,727	2580,72
1740	-119,458	2582,735
1740	-117,453	2582,765
1740	-110,357	2582,561
1740	-109,509	2582,987
1740	-100,441	2582,268
1740	-95,0674	2582,279
1740	-66,5767	2582,215

ABS	DIS_EJE	COTA
1740	-34,6916	2582,091
1740	-33,5238	2582,344
1740	-28,5115	2583,41
1740	-24,8934	2583,433
1740	-23,0159	2583,805
1740	-19,0465	2584,142
1740	-15,2286	2584,073
1740	-5,58189	2580,305
1740	-5,24505	2580,146
1740	0	2579,128
1740	4,589824	2578,237
1740	11,71746	2578,044
1740	18,10672	2577,754
1740	19,5974	2578,273
1740	24,55852	2578,992
1740	25,79286	2579,184
1740	27,84368	2579,063
1740	30,84192	2578,914
1740	31,16578	2578,99
1740	31,37461	2578,86
1740	32,84736	2578,229
1740	43,45486	2577,9
1740	54,68015	2577,888
1740	130,608	2578,003
1740	149,8741	2577,975
1740	150	2577,977
1760	-150	2578,62
1760	-147,302	2578,343

ABS	DIS_EJE	COTA
1760	-147	2578,332
1760	-146,53	2578,383
1760	-144,059	2578,933
1760	-141,635	2578,932
1760	-137,655	2578,93
1760	-135,889	2578,929
1760	-135,135	2578,928
1760	-134,038	2579,143
1760	-131,893	2579,396
1760	-126,301	2582,255
1760	-126,162	2582,344
1760	-120,267	2583,163
1760	-108,756	2581,918
1760	-108,711	2581,924
1760	-108,704	2581,922
1760	-108,691	2581,917
1760	-108,597	2581,917
1760	-91,0488	2582,118
1760	-81,1365	2582,248
1760	-65,7002	2582,202
1760	-48,2057	2582,147
1760	-27,1906	2582,112
1760	-22,609	2582,139
1760	-20,7315	2582,132
1760	-18,7891	2582,532
1760	-17,9283	2582,528
1760	-13,7706	2582,779
1760	-11,3089	2583,33

ABS	DIS_EJE	COTA
1760	-6,30669	2583,476
1760	-0,15217	2579,542
1760	0	2579,498
1760	0,543821	2579,34
1760	6,811941	2578,346
1760	8,415547	2578,167
1760	13,62335	2577,922
1760	20,52611	2577,611
1760	20,79433	2577,705
1760	22,53611	2577,96
1760	28,3759	2577,368
1760	29,36044	2577,989
1760	31,73526	2579,647
1760	35,12891	2579,053
1760	35,78939	2578,955
1760	36,26286	2578,979
1760	37,79718	2578,976
1760	38,51191	2578,98
1760	67,39089	2577,995
1760	96,4089	2577,952
1760	133,3718	2578,008
1760	150	2577,983
1780	-150	2583,051
1780	-141,083	2583,223
1780	-133,576	2583,494
1780	-132,279	2583,573
1780	-130,738	2583,567
1780	-127,011	2583,527

ABS	DIS_EJE	COTA
1780	-123,513	2582,705
1780	-114,867	2581,999
1780	-111,224	2581,96
1780	-91,8876	2581,935
1780	-90,599	2581,931
1780	-90,2374	2581,932
1780	-89,8211	2581,938
1780	-68,2659	2582,248
1780	-55,681	2582,26
1780	-49,8866	2582,264
1780	-39,0243	2582,044
1780	-37,0322	2581,999
1780	-19,4962	2581,982
1780	-17,3264	2582,011
1780	-11,35	2582,138
1780	-8,21176	2582,676
1780	-7,56304	2582,777
1780	-2,16301	2579,875
1780	-1,41601	2579,495
1780	-0,35384	2578,978
1780	0	2578,939
1780	1,093028	2578,818
1780	8,042752	2578,11
1780	9,378243	2578,094
1780	20,46047	2577,87
1780	23,26296	2577,894
1780	27,68055	2577,744
1780	29,548	2578,959

ABS	DIS_EJE	COTA
1780	30,392	2579,537
1780	31,2631	2579,389
1780	37,71649	2578,456
1780	41,61373	2578,701
1780	51,33887	2578,739
1780	54,79049	2578,783
1780	72,13632	2578,018
1780	94,41608	2577,949
1780	133,3511	2578,004
1780	150	2577,978
1800	-150	2582,162
1800	-139,014	2582,25
1800	-138,372	2582,319
1800	-128,239	2582,382
1800	-125,989	2582,36
1800	-118,728	2582,279
1800	-111,403	2582,126
1800	-110,159	2582,065
1800	-105,862	2582,094
1800	-95,4797	2582,106
1800	-88,7283	2581,99
1800	-84,2326	2582,202
1800	-75,9204	2582,186
1800	-74,0906	2582,197
1800	-73,3311	2582,215
1800	-71,5613	2581,634
1800	-67,1066	2581,608
1800	-59,944	2581,714

ABS	DIS_EJE	COTA
1800	-55,7659	2581,645
1800	-48,2138	2581,667
1800	-38,5286	2581,862
1800	-36,7938	2581,906
1800	-36,3351	2581,911
1800	-17,8667	2581,92
1800	-16,8839	2581,92
1800	-16,2148	2581,93
1800	-11,762	2581,847
1800	-11,6872	2581,874
1800	-9,76583	2582,573
1800	-7,59436	2581,679
1800	-4,82893	2581,152
1800	-1,89898	2579,558
1800	0	2579,231
1800	2,607039	2578,781
1800	4,080639	2578,478
1800	7,369835	2578,459
1800	14,67535	2578,335
1800	17,21982	2578,27
1800	23,82649	2578,28
1800	23,96158	2578,274
1800	24,08385	2578,347
1800	26,13027	2578,938
1800	27,14429	2579,216
1800	28,54718	2579,034
1800	36,1341	2578,142
1800	37,06106	2578,02

ABS	DIS_EJE	COTA
1800	43,64624	2578,493
1800	56,69623	2578,624
1800	60,4514	2578,703
1800	73,27593	2578,024
1800	90,72535	2577,941
1800	136,9658	2577,998
1800	150	2577,978
1820	-88,4096	2581,506
1820	-83,6355	2581,369
1820	-83,0657	2581,314
1820	-76,2921	2581,448
1820	-74,6906	2581,43
1820	-73,6569	2581,44
1820	-69,1151	2581,39
1820	-63,4642	2581,292
1820	-59,8189	2581,305
1820	-55,269	2581,426
1820	-44,327	2581,747
1820	-35,9701	2581,673
1820	-32,7417	2581,669
1820	-16,2384	2581,617
1820	-14,9913	2582,13
1820	-13,6029	2582,617
1820	-9,59983	2581,219
1820	-6,93728	2580,551
1820	-6,34115	2580,231
1820	-6,13753	2580,125
1820	0	2578,801

ABS	DIS_EJE	COTA
1820	1,563634	2578,464
1820	8,148232	2578,333
1820	12,93376	2578,297
1820	12,93844	2578,299
1820	18,79307	2578,502
1820	23,25309	2578,459
1820	25,05319	2579,067
1820	26,25129	2579,385
1820	30,6241	2578,811
1820	38,73904	2577,989
1820	43,11043	2578,325
1820	58,29623	2578,569
1820	61,92056	2578,673
1820	73,00214	2578,021
1820	87,29815	2577,932
1820	148,5352	2577,989
1820	150	2577,987
1840	-56,6941	2581,08
1840	-56,5999	2581,08
1840	-55,552	2581,083
1840	-43,8165	2581,11
1840	-43,0545	2581,111
1840	-32,8278	2581,219
1840	-32,5867	2581,222
1840	-32,5545	2581,222
1840	-32,4207	2581,227
1840	-18,9555	2581,672
1840	-15,5706	2582,634

ABS	DIS_EJE	COTA
1840	-12,9665	2582,826
1840	-9,63902	2582,795
1840	-6,87558	2581,292
1840	-0,14701	2578,597
1840	0	2578,557
1840	0,331828	2578,467
1840	1,165025	2578,39
1840	10,24869	2578,395
1840	11,96545	2578,366
1840	11,96648	2578,366
1840	14,73263	2578,458
1840	19,28409	2578,555
1840	22,13186	2578,589
1840	27,40581	2579,311
1840	28,6214	2579,087
1840	31,89906	2578,65
1840	38,34426	2578,003
1840	40,07599	2578,134
1840	58,73676	2578,522
1840	62,46789	2578,649
1840	72,99336	2578,018
1840	85,95205	2577,924
1840	150	2577,96
1860	-45,6558	2581,038
1860	-41,055	2581,046
1860	-35,7119	2581,064
1860	-29,3434	2581,401
1860	-14,3031	2581,875

ABS	DIS_EJE	COTA
1860	-13,8192	2581,895
1860	-13,3973	2582,041
1860	-11,4243	2582,572
1860	-7,77338	2582,603
1860	-0,40033	2579,162
1860	0	2578,992
1860	1,244939	2578,464
1860	1,302031	2578,448
1860	5,387403	2578,417
1860	13,56919	2578,336
1860	14,43268	2578,35
1860	27,43718	2578,538
1860	30,50989	2579,014
1860	33,47462	2578,448
1860	36,82008	2578,001
1860	38,61752	2578,007
1860	58,22451	2578,475
1860	62,36512	2578,626
1860	73,24596	2578,015
1860	86,0025	2577,918
1860	150	2577,926
1880	-47,8519	2580,801
1880	-46,9277	2580,63
1880	-46,4541	2580,691
1880	-41,0182	2580,807
1880	-38,7629	2580,829
1880	-36,6377	2580,915
1880	-29,0415	2581,23

ABS	DIS_EJE	COTA
1880	-15,5295	2581,709
1880	-12,6401	2581,791
1880	-12,1777	2581,955
1880	-10,6503	2582,604
1880	-7,2969	2581,481
1880	-4,78628	2581,314
1880	-2,59668	2579,91
1880	0	2578,928
1880	0,667913	2578,676
1880	2,355452	2578,157
1880	11,97308	2578,253
1880	15,1719	2578,293
1880	18,26082	2578,319
1880	23,32012	2578,408
1880	28,66707	2578,493
1880	30,18334	2578,737
1880	34,01277	2578,038
1880	34,39432	2577,97
1880	35,02973	2577,984
1880	39,74519	2577,999
1880	56,51808	2578,419
1880	61,56559	2578,601
1880	73,88922	2578,011
1880	87,47295	2577,91
1880	132,6215	2577,897
1880	145,2699	2577,912
1880	150	2578,08
1900	-67,8869	2580,546

ABS	DIS_EJE	COTA
1900	-67,2004	2580,54
1900	-65,0178	2580,504
1900	-64,176	2580,478
1900	-62,9684	2580,495
1900	-57,1734	2580,598
1900	-54,0795	2580,63
1900	-40,0104	2580,849
1900	-38,7449	2580,906
1900	-34,9174	2581,088
1900	-22,1048	2581,696
1900	-18,8654	2581,895
1900	-16,1067	2583,475
1900	-15,254	2583,628
1900	-12,6659	2583,325
1900	-7,87038	2582,675
1900	-5,22501	2581,076
1900	-4,09219	2580,36
1900	-0,89082	2579,547
1900	0	2579,286
1900	3,376276	2578,295
1900	9,038567	2578,309
1900	15,00997	2578,375
1900	24,76901	2578,443
1900	26,67345	2578,441
1900	26,72256	2578,456
1900	26,78509	2578,464
1900	26,93071	2578,43
1900	31,92593	2577,908



ABS	DIS_EJE	COTA
1900	35,22591	2577,981
1900	38,31463	2577,992
1900	52,58348	2578,336
1900	59,64145	2578,567
1900	75,39877	2578,004
1900	91,12639	2577,901
1900	122,8881	2577,878
1900	137,2021	2577,894
1900	150	2578,398
1920	-107,674	2580,373
1920	-106,472	2580,366
1920	-102,014	2580,446
1920	-96,9819	2580,502
1920	-94,1504	2580,538
1920	-87,8553	2580,555
1920	-81,8775	2580,657
1920	-74,8548	2580,705
1920	-65,4244	2580,706
1920	-65,0134	2580,714
1920	-64,7431	2580,72
1920	-48,8555	2581,056
1920	-41,8921	2581,239
1920	-32,9909	2581,574
1920	-30,0591	2582,804
1920	-26,8692	2584,189
1920	-21,1453	2583,834
1920	-12,7275	2582,956
1920	-9,19897	2582,375

ABS	DIS_EJE	COTA
1920	-6,66006	2580,595
1920	-6,02676	2580,304
1920	-1,11086	2578,52
1920	0	2578,425
1920	0,14936	2578,412
1920	3,009265	2578,241
1920	9,238007	2578,159
1920	12,63987	2578,161
1920	22,59681	2578,233
1920	25,27338	2578,237
1920	26,34444	2578,553
1920	27,67501	2578,738
1920	30,63783	2578,024
1920	31,15597	2577,97
1920	31,52785	2577,978
1920	31,89988	2577,979
1920	33,99798	2578,026
1920	46,40067	2578,392
1920	58,34431	2578,067
1920	84,85109	2577,912
1920	122,0897	2577,878
1920	136,1152	2577,891
1920	146,5762	2578,312
1920	150	2578,256
1940	-147,496	2580,119
1940	-137,403	2580,22
1940	-128,462	2580,312
1940	-125,67	2580,371

ABS	DIS_EJE	COTA
1940	-123,91	2580,419
1940	-116,375	2580,668
1940	-109,397	2580,668
1940	-104,882	2580,701
1940	-101,597	2580,709
1940	-87,2907	2580,868
1940	-84,4395	2580,898
1940	-82,2255	2580,91
1940	-65,0941	2581,287
1940	-53,7829	2581,459
1940	-50,5847	2581,522
1940	-47,0323	2581,596
1940	-43,173	2582,993
1940	-39,9958	2584,093
1940	-35,6174	2583,914
1940	-32,2487	2583,848
1940	-24,9614	2583,592
1940	-19,2367	2583,188
1940	-14,8435	2581,675
1940	-14,6542	2581,558
1940	-13,1433	2581,142
1940	-2,78885	2578,353
1940	0	2578,095
1940	0,348012	2578,063
1940	0,727555	2577,996
1940	1,765268	2577,993
1940	12,05053	2577,98
1940	12,68037	2578,122

ABS	DIS_EJE	COTA
1940	15,28998	2578,437
1940	16,6294	2578,393
1940	22,5392	2578,437
1940	23,24998	2578,593
1940	24,32885	2579,142
1940	25,14661	2578,858
1940	28,71707	2578,127
1940	29,8213	2578,137
1940	61,00801	2577,957
1940	126,0442	2577,896
1940	137,1758	2577,907
1940	150	2578,423
1960	-150	2580,294
1960	-146,232	2580,317
1960	-139,634	2580,366
1960	-134,679	2580,375
1960	-129,938	2580,417
1960	-122,743	2580,463
1960	-116,279	2580,527
1960	-110,395	2580,702
1960	-108,825	2581,114
1960	-101,69	2581,079
1960	-96,5475	2580,987
1960	-90,515	2581,129
1960	-79,0617	2581,373
1960	-64,9308	2581,456
1960	-64,6229	2581,499
1960	-63,8928	2581,49

ABS	DIS_EJE	COTA
1960	-61,4937	2582,435
1960	-61,3328	2582,407
1960	-50,7781	2582,064
1960	-44,6036	2580,821
1960	-41,947	2580,592
1960	-38,1277	2579,658
1960	-32,558	2578,061
1960	-28,1741	2577,671
1960	-28,1401	2577,657
1960	-27,3449	2577,659
1960	-20,1484	2577,69
1960	-18,6169	2577,725
1960	-14,8093	2578,068
1960	-10,7763	2578,58
1960	-9,90188	2579,917
1960	-1,76392	2578,623
1960	0	2578,308
1960	0,410074	2578,235
1960	2,364792	2577,828
1960	5,681033	2577,659
1960	11,26118	2577,656
1960	13,37156	2578,036
1960	15,59056	2578,534
1960	19,49547	2578,416
1960	23,58435	2578,738
1960	24,69742	2578,981
1960	26,18385	2578,976
1960	27,25073	2578,616

ABS	DIS_EJE	COTA
1960	29,21358	2578,026
1960	30,319	2578,036
1960	36,00037	2578,004
1960	129,7157	2577,914
1960	137,9773	2577,922
1960	150	2578,406
1980	-150	2580,094
1980	-145,369	2580,143
1980	-136,22	2580,237
1980	-123,112	2580,309
1980	-118,488	2580,364
1980	-116,039	2580,478
1980	-110,498	2580,608
1980	-94,9884	2581,21
1980	-94,356	2581,232
1980	-94,3391	2581,237
1980	-93,9559	2581,265
1980	-91,5223	2581,674
1980	-87,5415	2582,297
1980	-82,6008	2582,404
1980	-74,3747	2582,245
1980	-65,9724	2580,031
1980	-64,3199	2578,842
1980	-62,7566	2578,185
1980	-61,311	2577,788
1980	-59,7205	2577,718
1980	-53,4835	2577,712
1980	-38,8185	2577,824

ABS	DIS_EJE	COTA
1980	-21,2899	2577,912
1980	-17,3513	2577,939
1980	-13,699	2577,919
1980	-12,7829	2578,325
1980	-8,89372	2580,213
1980	-7,05562	2579,884
1980	-5,39575	2579,808
1980	-3,97977	2579,664
1980	0	2579,101
1980	0,588002	2579,018
1980	2,179083	2578,686
1980	5,049247	2578,082
1980	7,670782	2578,076
1980	14,46865	2577,719
1980	19,30465	2577,859
1980	22,47665	2578,338
1980	23,73687	2578,699
1980	28,74598	2578,996
1980	29,92994	2578,992
1980	31,42141	2578,402
1980	32,75579	2577,992
1980	61,40311	2578,001
1980	132,6631	2577,93
1980	138,4608	2577,935
1980	150	2578,4
2000	-150	2580,222
2000	-146,731	2580,237
2000	-138,216	2582,204

ABS	DIS_EJE	COTA
2000	-137,741	2582,331
2000	-135,567	2581,587
2000	-130,024	2579,915
2000	-126,786	2578,856
2000	-126,02	2578,802
2000	-125,697	2578,789
2000	-125,358	2578,778
2000	-106,763	2578,438
2000	-101,578	2578,221
2000	-94,4613	2577,856
2000	-89,2163	2577,904
2000	-82,372	2577,997
2000	-79,3325	2578,098
2000	-77,2637	2578,069
2000	-70,0402	2577,851
2000	-38,8472	2577,851
2000	-9,64675	2577,815
2000	-8,73344	2577,848
2000	-6,5072	2579,208
2000	-5,22403	2579,808
2000	-4,92478	2579,793
2000	-1,97405	2579,647
2000	-1,17993	2579,533
2000	0	2579,466
2000	3,673161	2579,258
2000	6,117468	2578,198
2000	7,190516	2577,969
2000	16,45515	2577,958

ABS	DIS_EJE	COTA
2000	17,42268	2577,904
2000	24,75487	2578,109
2000	29,32522	2578,203
2000	29,79367	2578,361
2000	31,86072	2579,045
2000	32,46686	2578,825
2000	34,75976	2578,032
2000	43,52282	2577,975
2000	77,09743	2577,994
2000	132,5919	2577,929
2000	138,5941	2577,934
2000	150	2578,386
2020	-150	2578,119
2020	-149,398	2578,139
2020	-148,478	2578,174
2020	-147,873	2578,156
2020	-135,248	2577,651
2020	-134,199	2577,643
2020	-125,609	2577,39
2020	-111,625	2577,37
2020	-109,18	2577,409
2020	-106,704	2577,418
2020	-103,363	2577,571
2020	-96,1695	2578,028
2020	-93,0252	2578,936
2020	-92,3942	2579,114
2020	-89,9699	2579,346
2020	-89,655	2579,374

ABS	DIS_EJE	COTA
2020	-89,1715	2579,075
2020	-87,4025	2577,984
2020	-86,6729	2578,007
2020	-77,4742	2577,89
2020	-75,5079	2577,832
2020	-30,132	2577,836
2020	-10,7512	2577,82
2020	-8,48263	2577,897
2020	-6,25609	2579,623
2020	-4,26825	2580,42
2020	-2,85124	2580,331
2020	-2,12005	2580,287
2020	-0,12826	2579,897
2020	0	2579,876
2020	4,829537	2579,077
2020	7,636502	2577,953
2020	7,867598	2577,855
2020	16,68023	2577,878
2020	18,20128	2577,835
2020	20,04079	2577,902
2020	31,22053	2578,175
2020	31,95467	2578,29
2020	34,40873	2579,12
2020	35,00635	2578,893
2020	37,06681	2578,12
2020	44,52926	2578,156
2020	65,23919	2577,973
2020	85,91762	2577,989

ABS	DIS_EJE	COTA
2020	132,6581	2577,928
2020	139,0289	2577,932
2020	150	2578,35
2040	-150	2578,175
2040	-149,506	2578,172
2040	-144,76	2578,353
2040	-132,482	2578,217
2040	-116,873	2578,315
2040	-113,781	2578,083
2040	-106,8	2577,386
2040	-98,2942	2577,756
2040	-89,9223	2577,546
2040	-88,865	2577,586
2040	-83,0224	2579,133
2040	-78,3105	2579,984
2040	-77,0908	2580,52
2040	-76,7677	2580,544
2040	-75,0964	2580,71
2040	-71,5495	2578,4
2040	-69,5007	2577,802
2040	-68,1042	2577,784
2040	-39,3131	2577,766
2040	-23,9147	2577,763
2040	-20,8066	2578,499
2040	-15,1911	2578,985
2040	-12,945	2579,967
2040	-9,40396	2579,827
2040	-8,73939	2579,962

ABS	DIS_EJE	COTA
2040	-7,18927	2579,679
2040	0	2578,688
2040	4,09286	2578,124
2040	11,26756	2577,906
2040	17,42538	2577,743
2040	19,20828	2577,745
2040	28,83219	2578,095
2040	31,01638	2578,224
2040	31,79355	2578,182
2040	34,36059	2578,573
2040	35,76675	2577,967
2040	45,21246	2577,972
2040	64,4842	2578,108
2040	77,0152	2577,972
2040	91,34141	2577,986
2040	132,8702	2577,927
2040	139,8246	2577,93
2040	150	2578,292
2060	-150	2580,694
2060	-144,613	2581,682
2060	-142,899	2581,785
2060	-137,21	2581,537
2060	-136,679	2581,436
2060	-134,944	2581
2060	-127,706	2578,784
2060	-125,823	2577,806
2060	-124,104	2577,603
2060	-117,653	2577,372

ABS	DIS_EJE	COTA
2060	-109,87	2577,372
2060	-94,6255	2578,083
2060	-93,7986	2578,153
2060	-91,9635	2578,233
2060	-87,2883	2578,294
2060	-83,1543	2579,373
2060	-80,5209	2580,387
2060	-78,7919	2580,625
2060	-78,1412	2580,677
2060	-75,8696	2579,752
2060	-72,5187	2577,78
2060	-70,3047	2577,764
2060	-56,3141	2577,796
2060	-42,4076	2577,847
2060	-29,5582	2577,831
2060	-28,2673	2577,824
2060	-25,8636	2578,858
2060	-19,3965	2580,758
2060	-18,4519	2580,771
2060	-17,088	2580,699
2060	-6,85488	2579,075
2060	-4,78857	2578,591
2060	-2,42877	2578,24
2060	-0,06591	2578,166
2060	0	2578,163
2060	8,052253	2577,84
2060	14,65015	2577,586
2060	15,59937	2577,622

ABS	DIS_EJE	COTA
2060	17,06798	2577,656
2060	23,74386	2578,196
2060	27,2306	2578,036
2060	28,22138	2578,034
2060	29,15152	2578,02
2060	36,94968	2578
2060	67,3508	2578,003
2060	99,51217	2578,038
2060	111,7155	2578,015
2060	119,0734	2577,985
2060	127,0604	2577,931
2060	135,8595	2577,928
2060	150	2577,941
2080	-150	2578,611
2080	-144,437	2578,317
2080	-143,51	2578,248
2080	-140,916	2578,122
2080	-134,31	2577,94
2080	-133,683	2577,955
2080	-122,152	2577,664
2080	-115,982	2577,86
2080	-108,669	2578,032
2080	-103,23	2578,767
2080	-102,457	2579,029
2080	-101,55	2579,207
2080	-96,2366	2579,442
2080	-94,9531	2579,601
2080	-89,9361	2578,319

ABS	DIS_EJE	COTA
2080	-88,0986	2577,837
2080	-87,4231	2577,827
2080	-87,366	2577,826
2080	-86,9889	2577,826
2080	-86,8426	2577,825
2080	-86,5783	2577,824
2080	-63,7296	2577,729
2080	-53,1555	2577,789
2080	-46,7311	2577,841
2080	-31,4191	2577,739
2080	-31,3636	2577,738
2080	-25,6695	2579,029
2080	-22,2254	2581,051
2080	-21,4491	2581,011
2080	-19,8444	2581,02
2080	-12,2191	2579,548
2080	-4,90248	2578,267
2080	0	2578,132
2080	5,353756	2577,985
2080	13,27755	2577,832
2080	21,22253	2578,046
2080	24,87558	2578,177
2080	26,718	2578,22
2080	29,18757	2578,276
2080	33,58962	2579,837
2080	35,5554	2580,441
2080	37,68196	2580,298
2080	44,63064	2580,155

ABS	DIS_EJE	COTA
2080	51,46245	2580,274
2080	55,38635	2580,206
2080	58,06611	2580,441
2080	60,97019	2580,383
2080	70,45991	2580,336
2080	76,56083	2580,078
2080	78,66085	2580,268
2080	83,29452	2580,195
2080	92,11136	2579,249
2080	100,3805	2579,235
2080	102,8896	2580,225
2080	104,1588	2580,277
2080	108,7066	2580,291
2080	120,2855	2580,338
2080	124,1946	2580,519
2080	139,3955	2580,692
2080	144,9643	2580,653
2080	150	2580,743
2100	-150	2580,153
2100	-147,854	2579,869
2100	-140,983	2578,316
2100	-139,752	2578,085
2100	-137,943	2578,432
2100	-137,549	2578,416
2100	-129,906	2577,864
2100	-123,776	2577,868
2100	-118,11	2577,892
2100	-111,015	2578,062

ABS	DIS_EJE	COTA
2100	-103,237	2577,963
2100	-97,7953	2577,838
2100	-78,1919	2577,829
2100	-74,2053	2577,813
2100	-69,1693	2577,793
2100	-59,1214	2577,731
2100	-52,275	2577,786
2100	-47,4643	2577,84
2100	-40,3757	2577,762
2100	-33,7161	2577,77
2100	-30,1762	2577,773
2100	-27,9266	2578,6
2100	-24,293	2580,668
2100	-22,8795	2580,818
2100	-19,1822	2580,737
2100	-16,0044	2579,938
2100	-3,64164	2578,226
2100	-0,60766	2578,158
2100	0	2578,145
2100	12,55336	2577,871
2100	16,11726	2578,044
2100	16,926	2578,052
2100	24,56108	2578,096
2100	28,00947	2579,858
2100	29,95977	2580,338
2100	32,80781	2580,327
2100	38,6264	2579,468
2100	38,92424	2579,408

ABS	DIS_EJE	COTA
2100	39,27925	2579,383
2100	39,7899	2579,387
2100	45,35396	2579,053
2100	48,81008	2579,344
2100	54,93713	2579,756
2100	55,77404	2579,8
2100	60,96019	2579,987
2100	68,15566	2580,246
2100	68,54634	2580,255
2100	69,61202	2580,715
2100	70,98137	2581,276
2100	74,79377	2581,356
2100	91,2124	2581,632
2100	93,36855	2581,62
2100	99,27515	2581,621
2100	110,1908	2581,59
2100	116,1804	2581,598
2100	135,4495	2581,301
2100	137,5502	2581,264
2100	139,3931	2581,229
2100	150	2580,986
2120	-150	2582,189
2120	-147,343	2582,392
2120	-145,799	2582,299
2120	-138,746	2580,489
2120	-136,422	2578,545
2120	-135,304	2578,07
2120	-133,794	2577,826

ABS	DIS_EJE	COTA
2120	-131,591	2577,856
2120	-130,902	2577,832
2120	-127,413	2577,857
2120	-125,827	2577,859
2120	-76,3656	2577,832
2120	-70,5561	2577,806
2120	-64,5256	2577,779
2120	-57,8159	2577,732
2120	-52,1325	2577,783
2120	-47,6747	2577,839
2120	-42,5903	2577,771
2120	-33,2001	2577,798
2120	-30,9744	2577,804
2120	-21,0452	2581,881
2120	-20,8101	2582,009
2120	-20,62	2582,021
2120	-19,5298	2581,976
2120	-16,4617	2581,85
2120	-16,0615	2581,788
2120	-8,07312	2579,981
2120	0	2578,188
2120	1,017243	2577,962
2120	3,227875	2577,934
2120	17,99522	2577,843
2120	19,76912	2578,128
2120	20,64915	2578,324
2120	28,06907	2578,219
2120	28,30383	2578,206

ABS	DIS_EJE	COTA
2120	28,77849	2578,361
2120	35,28517	2580,447
2120	37,13712	2580,352
2120	39,84814	2580,311
2120	43,32391	2580,325
2120	48,90943	2580,265
2120	64,37367	2579,999
2120	67,71867	2580,137
2120	71,75203	2580,259
2120	79,86581	2580,391
2120	88,26355	2580,455
2120	89,82704	2580,446
2120	110,3505	2581,045
2120	113,303	2581,212
2120	114,7003	2581,256
2120	117,92	2581,215
2120	134,9901	2581,071
2120	137,7198	2581,07
2120	150	2580,828
2140	-150	2577,708
2140	-149,591	2577,714
2140	-144,541	2577,933
2140	-141,419	2577,961
2140	-136,571	2577,875
2140	-131,196	2577,822
2140	-126,365	2577,752
2140	-117,565	2577,829
2140	-105,743	2577,85

ABS	DIS_EJE	COTA
2140	-79,4876	2577,834
2140	-71,0011	2577,799
2140	-63,5745	2577,77
2140	-58,1504	2577,732
2140	-52,5751	2577,781
2140	-47,6448	2577,838
2140	-43,1343	2577,776
2140	-32,7583	2577,82
2140	-31,4319	2577,829
2140	-27,0562	2580,58
2140	-24,5985	2581,854
2140	-22,3457	2582,031
2140	-21,8679	2581,989
2140	-15,6732	2581,054
2140	-12,8436	2580,525
2140	-7,12791	2578,729
2140	0	2578,297
2140	5,577779	2577,96
2140	6,978945	2577,856
2140	7,067718	2577,836
2140	8,25942	2577,843
2140	19,35513	2577,948
2140	21,549	2577,968
2140	21,64978	2577,967
2140	21,66154	2577,97
2140	21,9451	2577,986
2140	26,83552	2578,282
2140	27,95201	2578,422



ABS	DIS_EJE	COTA
2140	28,47519	2578,509
2140	28,71907	2578,656
2140	34,80891	2580,247
2140	43,64748	2579,979
2140	52,25922	2579,679
2140	62,76392	2579,778
2140	64,21127	2579,764
2140	65,30794	2579,774
2140	69,76003	2579,842
2140	71,63861	2579,936
2140	90,54646	2580,082
2140	92,05422	2580,099
2140	92,69291	2580,103
2140	92,76195	2580,104
2140	94,46527	2580,131
2140	108,3325	2580,254
2140	119,6315	2580,314
2140	122,067	2580,3
2140	135,6831	2577,679
2140	137,4066	2577,328
2140	137,7911	2577,317
2140	144,3113	2577,024
2140	150	2577,251
2160	-150	2577,974
2160	-149,386	2577,973
2160	-137,967	2578,133
2160	-123,229	2577,972
2160	-118,757	2577,969

ABS	DIS_EJE	COTA
2160	-116,992	2578,615
2160	-114,22	2578,175
2160	-113,277	2578,218
2160	-109,284	2577,994
2160	-103,068	2577,736
2160	-97,6359	2577,725
2160	-96,8739	2577,742
2160	-80,1082	2578,187
2160	-72,904	2579,011
2160	-69,4953	2579,715
2160	-59,8219	2580,707
2160	-56,4955	2580,825
2160	-56,1829	2580,825
2160	-55,3125	2580,67
2160	-54,1618	2580,259
2160	-47,8772	2579,093
2160	-45,7148	2579,628
2160	-36,9905	2578,021
2160	-36,2856	2577,958
2160	-35,9403	2577,963
2160	-27,1475	2579,554
2160	-24,3229	2580,195
2160	-20,6966	2582,071
2160	-18,8855	2581,924
2160	-18,8049	2581,904
2160	-17,8924	2581,582
2160	-16,0785	2580,988
2160	-9,4686	2578,791

ABS	DIS_EJE	COTA
2160	-8,93226	2578,751
2160	-8,67263	2578,697
2160	0	2578,051
2160	0,361151	2578,024
2160	1,730617	2577,572
2160	4,764816	2577,559
2160	15,33866	2577,624
2160	20,04878	2578,324
2160	26,7025	2579,134
2160	27,89431	2579,476
2160	29,35912	2580,287
2160	32,85252	2580,046
2160	32,91088	2580,069
2160	42,02282	2579,305
2160	46,22841	2579,257
2160	52,83567	2579,48
2160	57,53201	2579,47
2160	58,8754	2579,812
2160	61,52536	2580,231
2160	61,75118	2580,229
2160	64,64206	2580,314
2160	66,16338	2580,344
2160	71,14096	2579,131
2160	78,44153	2578,473
2160	83,01511	2578,621
2160	109,2196	2577,785
2160	118,2474	2577,541
2160	124,4583	2577,541

ABS	DIS_EJE	COTA
2160	127,2416	2577,541
2160	128,7785	2579,405
2160	130,7447	2581,448
2160	139,8899	2581,761
2160	140,891	2581,787
2160	144,9133	2581,711
2160	150	2581,635
2180	-150	2577,992
2180	-137,228	2577,975
2180	-127,879	2578,106
2180	-126,871	2578,448
2180	-124,87	2579,166
2180	-124,216	2578,964
2180	-121,691	2578,166
2180	-119,439	2578,118
2180	-113,715	2577,981
2180	-109,105	2577,889
2180	-107,584	2577,834
2180	-104,682	2577,902
2180	-95,8264	2577,952
2180	-93,3103	2578,914
2180	-86,4405	2579,956
2180	-81,3004	2580,655
2180	-80,9852	2580,674
2180	-78,292	2580,638
2180	-78,266	2580,624
2180	-78,2046	2580,612
2180	-78,0235	2580,559

ABS	DIS_EJE	COTA
2180	-71,9033	2578,451
2180	-70,6484	2577,818
2180	-66,149	2577,764
2180	-65,1594	2577,745
2180	-60,8124	2577,74
2180	-59,2649	2577,736
2180	-54,5603	2577,751
2180	-33,0749	2577,835
2180	-26,936	2577,792
2180	-21,5357	2577,817
2180	-18,9009	2577,835
2180	-16,9569	2577,756
2180	-14,5289	2578,864
2180	-12,5032	2580,323
2180	-11,3962	2580,254
2180	-10,6834	2580,153
2180	-9,58434	2579,739
2180	-2,18053	2578,434
2180	0	2577,951
2180	1,666884	2577,583
2180	1,993331	2577,479
2180	15,76576	2577,48
2180	16,70845	2577,48
2180	17,22504	2577,535
2180	27,98727	2578,879
2180	34,10073	2580,37
2180	34,3878	2580,38
2180	39,04842	2580,352

ABS	DIS_EJE	COTA
2180	43,50099	2580,31
2180	43,66323	2580,313
2180	55,51143	2580,221
2180	56,36582	2580,349
2180	56,44878	2580,348
2180	60,60433	2580,278
2180	62,61075	2580,335
2180	67,63746	2578,441
2180	71,23034	2577,322
2180	74,01563	2577,384
2180	78,37203	2577,76
2180	89,78276	2579,012
2180	93,98796	2578,743
2180	105,6628	2578,4
2180	113,1162	2577,897
2180	117,6966	2577,464
2180	118,8345	2577,469
2180	126,026	2577,494
2180	126,2117	2577,675
2180	127,4972	2578,582
2180	130,0911	2580,647
2180	131,3747	2581,798
2180	136,0574	2581,656
2180	141,5131	2581,807
2180	148,0735	2581,66
2180	150	2581,668
2200	-150	2578,01
2200	-148,55	2578,012

ABS	DIS_EJE	COTA
2200	-144,055	2578,006
2200	-141,137	2578,709
2200	-140,257	2578,988
2200	-138,141	2578,995
2200	-131,996	2578,678
2200	-130,93	2578,339
2200	-128,384	2577,904
2200	-121,749	2577,79
2200	-117,615	2578,011
2200	-109,895	2577,99
2200	-107,952	2578,32
2200	-105,501	2579,242
2200	-100,263	2579,545
2200	-98,8787	2579,64
2200	-98,8005	2579,646
2200	-98,1436	2579,456
2200	-91,5223	2577,881
2200	-89,7735	2577,828
2200	-82,6364	2577,843
2200	-61,4159	2577,835
2200	-40,6029	2577,807
2200	-32,0462	2577,796
2200	-17,7784	2577,75
2200	-16,3015	2578,649
2200	-12,6775	2580,519
2200	-11,4253	2580,442
2200	-10,5557	2580,317
2200	-8,30129	2579,304

ABS	DIS_EJE	COTA
2200	-2,9863	2578,034
2200	0	2577,849
2200	1,242068	2577,773
2200	8,720516	2577,793
2200	17,52694	2577,401
2200	27,60593	2578,512
2200	27,70627	2578,521
2200	27,92498	2578,522
2200	52,14968	2579,49
2200	55,43263	2579,444
2200	60,3994	2578,886
2200	64,53862	2578,791
2200	67,8677	2577,759
2200	88,0944	2578,184
2200	94,74287	2578,764
2200	98,20664	2578,705
2200	99,82422	2578,531
2200	111,9614	2577,086
2200	112,9539	2576,995
2200	121,3833	2577,038
2200	122,3515	2577,043
2200	122,9896	2577,658
2200	124,5161	2579,037
2200	128,7751	2581,667
2200	129,3824	2582,045
2200	129,4627	2582,117
2200	130,4738	2582,085
2200	139,9135	2581,769

ABS	DIS_EJE	COTA
2200	146,9721	2581,697
2200	148,712	2581,704
2200	149,554	2581,694
2200	150	2581,705
2220	-150	2578,433
2220	-148,495	2578,481
2220	-142,606	2578,565
2220	-139,428	2578,015
2220	-136,664	2577,651
2220	-132,434	2577,642
2220	-124,675	2578,064
2220	-122,528	2578,429
2220	-118,842	2579,051
2220	-114,321	2579,561
2220	-111,617	2579,813
2220	-108,86	2579,956
2220	-107,742	2580,105
2220	-106,342	2579,463
2220	-102,482	2577,889
2220	-95,2686	2577,81
2220	-93,919	2577,788
2220	-90,0746	2577,816
2220	-73,6096	2577,849
2220	-24,0729	2577,832
2220	-21,9505	2577,878
2220	-15,4371	2577,93
2220	-13,4738	2579,393
2220	-13,3109	2579,505

ABS	DIS_EJE	COTA
2220	-12,3649	2579,429
2220	-9,57816	2579,286
2220	-8,08576	2578,821
2220	-7,19796	2578,534
2220	-0,33534	2577,791
2220	0	2577,763
2220	2,506119	2577,551
2220	5,866548	2577,445
2220	18,7607	2577,366
2220	22,79995	2577,539
2220	25,62578	2577,791
2220	53,47251	2577,96
2220	53,80377	2577,974
2220	54,13018	2577,969
2220	54,32996	2577,973
2220	57,23636	2578,354
2220	60,15398	2578,24
2220	67,25566	2578,628
2220	72,06665	2578,619
2220	83,42106	2578,905
2220	85,51198	2578,654
2220	86,14354	2578,537
2220	87,42408	2578,517
2220	92,17154	2578,232
2220	96,66265	2577,944
2220	98,91557	2577,788
2220	108,7324	2577,715
2220	113,5455	2577,673

ABS	DIS_EJE	COTA
2220	114,9649	2577,925
2220	116,5618	2578,634
2220	121,6171	2581,198
2220	123,3728	2582,081
2220	124,3099	2582,106
2220	126,5784	2582,078
2220	133,1476	2582,052
2220	139,1899	2582,119
2220	146,0345	2582,2
2220	149,3765	2582,242
2220	150	2582,255
2240	-150	2578,031
2240	-146,246	2577,963
2240	-143,706	2577,924
2240	-141,567	2578,152
2240	-138,696	2578,333
2240	-134,465	2579,127
2240	-131,695	2579,053
2240	-124,251	2580,109
2240	-123,451	2578,493
2240	-119,77	2578,003
2240	-117,956	2577,806
2240	-113,642	2577,769
2240	-110,724	2577,789
2240	-107,844	2577,818
2240	-106,211	2577,882
2240	-99,5424	2577,952
2240	-96,001	2577,887

ABS	DIS_EJE	COTA
2240	-89,9896	2577,822
2240	-85,2779	2577,745
2240	-71,8567	2577,841
2240	-64,5829	2577,856
2240	-42,6986	2577,848
2240	-35,1853	2578,012
2240	-29,1657	2578,06
2240	-14,8255	2577,702
2240	-14,1293	2577,692
2240	-12,9885	2577,678
2240	-12,9007	2577,774
2240	-10,2602	2579,032
2240	-9,88179	2579,049
2240	-7,91228	2578,889
2240	-7,48102	2578,691
2240	-5,51482	2578,07
2240	0	2577,623
2240	1,465603	2577,504
2240	2,909802	2577,47
2240	3,598534	2577,429
2240	20,94365	2577,291
2240	23,23821	2577,333
2240	29,36555	2578,092
2240	30,32783	2578,23
2240	30,51179	2578,335
2240	30,70976	2578,38
2240	31,74407	2578,747
2240	38,11189	2580,335

ABS	DIS_EJE	COTA
2240	40,02622	2581,236
2240	41,15997	2581,132
2240	54,69741	2579,741
2240	57,97231	2579,829
2240	67,80436	2578,439
2240	72,01474	2577,67
2240	72,52494	2577,562
2240	75,04606	2577,54
2240	85,20315	2577,885
2240	88,19979	2577,854
2240	98,13706	2577,904
2240	99,40439	2577,903
2240	100,6857	2577,988
2240	100,7734	2578,002
2240	101,1109	2578,154
2240	102,9689	2578,955
2240	111,398	2582,264
2240	113,5164	2582,359
2240	117,5115	2582,111
2240	124,4544	2582,351
2240	129,4877	2582,366
2240	131,2371	2582,355
2240	140,7533	2582,317
2240	149,0094	2582,426
2240	150	2582,438
2260	-150	2580,6
2260	-142,102	2580,639
2260	-134,013	2580,689

ABS	DIS_EJE	COTA
2260	-125,978	2580,765
2260	-119,574	2580,876
2260	-118,656	2580,901
2260	-105,369	2581,162
2260	-101,715	2581,094
2260	-93,3806	2581,248
2260	-82,7069	2581,35
2260	-65,849	2581,45
2260	-62,7046	2581,846
2260	-61,8079	2581,945
2260	-58,6681	2581,828
2260	-54,3321	2581,126
2260	-51,1914	2580,314
2260	-42,7826	2579,544
2260	-35,8235	2578,713
2260	-31,1076	2578,426
2260	-30,1844	2578,645
2260	-26,1908	2578,563
2260	-13,6472	2578,121
2260	-7,95163	2578,053
2260	0	2578,049
2260	1,208078	2578,048
2260	3,74879	2578,105
2260	7,357885	2577,718
2260	8,599384	2577,626
2260	10,33896	2577,602
2260	16,24617	2577,643
2260	23,21797	2577,655

ABS	DIS_EJE	COTA
2260	26,34773	2577,735
2260	26,76058	2577,719
2260	34,92164	2578,098
2260	36,79187	2578,076
2260	40,10515	2580,233
2260	42,50317	2580,187
2260	52,73205	2579,842
2260	56,77756	2580,206
2260	61,15717	2579,974
2260	73,78738	2578,543
2260	76,74957	2578,136
2260	79,87278	2578,186
2260	87,41827	2578,207
2260	97,33063	2577,844
2260	98,87852	2577,836
2260	99,82401	2577,832
2260	110,6787	2577,676
2260	119,9947	2577,532
2260	119,9993	2577,532
2260	120,003	2577,532
2260	120,0065	2577,534
2260	123,7876	2579,13
2260	127,2063	2580,654
2260	129,931	2582,102
2260	138,753	2582,04
2260	143,0604	2581,887
2260	150	2581,777
2280	-106,81	2580,089

ABS	DIS_EJE	COTA
2280	-106,688	2580,155
2280	-97,4563	2580,289
2280	-88,9779	2580,285
2280	-81,1291	2580,194
2280	-72,8995	2580,125
2280	-63,9566	2580,132
2280	-43,3843	2580,143
2280	-40,2794	2580,161
2280	-34,4026	2580,194
2280	-28,0107	2580,254
2280	-25,5579	2580,257
2280	-19,0391	2581,847
2280	-18,1858	2582,264
2280	-17,0515	2582,285
2280	-8,87234	2579,342
2280	-7,42536	2579,327
2280	-4,45365	2579,356
2280	-2,27867	2578,765
2280	-0,24393	2578,386
2280	0	2578,369
2280	4,206466	2578,069
2280	6,610694	2577,837
2280	12,62011	2577,9
2280	23,07363	2577,948
2280	24,08633	2577,871
2280	29,49215	2578,09
2280	31,6422	2578,082
2280	35,16696	2580,705

ABS	DIS_EJE	COTA
2280	36,60915	2580,84
2280	43,7865	2581,396
2280	45,9954	2581,378
2280	51,02807	2578,766
2280	56,71026	2579,038
2280	58,44675	2578,562
2280	62,40586	2578,332
2280	63,57087	2578,127
2280	69,02585	2578,34
2280	75,637	2578,04
2280	77,9109	2577,965
2280	78,02481	2577,974
2280	78,30935	2577,933
2280	100,453	2577,657
2280	105,5866	2578,011
2280	112,5946	2578,929
2280	114,0914	2578,778
2280	121,7234	2578,446
2280	137,6246	2578,065
2280	143,8502	2577,979
2280	150	2577,864
2300	-127,96	2580,351
2300	-102,871	2580,374
2300	-98,2542	2580,187
2300	-85,8065	2580,17
2300	-81,4115	2580,189
2300	-76,9797	2580,526
2300	-69,8753	2580,415

ABS	DIS_EJE	COTA
2300	-66,5541	2580,607
2300	-65,4932	2580,88
2300	-42,5406	2581,33
2300	-36,1423	2580,067
2300	-30,741	2580,108
2300	-27,6377	2580,168
2300	-23,1891	2581,245
2300	-21,5134	2580,712
2300	-20,6141	2581,05
2300	-18,4027	2581,628
2300	-17,7688	2581,671
2300	-16,0136	2581,686
2300	-8,8073	2580,122
2300	0	2578,428
2300	2,24686	2577,996
2300	15,24139	2578,174
2300	15,87198	2578,168
2300	16,19999	2578,16
2300	18,17703	2577,991
2300	24,68846	2578,093
2300	27,50315	2578,115
2300	29,41866	2579,127
2300	32,98897	2581,251
2300	34,76269	2581,685
2300	37,52255	2581,696
2300	39,49246	2580,881
2300	45,44775	2577,952
2300	48,87324	2577,765

ABS	DIS_EJE	COTA
2300	66,61629	2578,388
2300	74,28962	2578,961
2300	75,86413	2579,1
2300	84,04568	2579,763
2300	97,18111	2579,566
2300	101,1426	2580,041
2300	101,1647	2580,046
2300	114,5187	2579,648
2300	131,3791	2579,733
2300	137,5429	2580,131
2300	139,7053	2580,186
2300	142,301	2580,275
2300	142,5627	2580,293
2300	142,7068	2580,341
2300	143,0735	2580,375
2300	150	2580,246
2320	-102,313	2580,755
2320	-91,9994	2580,764
2320	-76,6992	2580,144
2320	-75,3021	2580,105
2320	-64,3273	2580,216
2320	-62,6803	2580,034
2320	-61,8772	2579,906
2320	-52,2663	2581,646
2320	-47,678	2581,711
2320	-43,7737	2581,949
2320	-37,4034	2581,312
2320	-35,6769	2581,398

ABS	DIS_EJE	COTA
2320	-25,489	2581,205
2320	-20,6248	2581,224
2320	-16,5085	2581,644
2320	0	2578,677
2320	3,553669	2578,038
2320	3,970126	2577,919
2320	4,683079	2577,856
2320	15,11375	2577,746
2320	17,33129	2577,756
2320	19,44351	2577,673
2320	28,26209	2579,657
2320	35,89621	2580,973
2320	42,62553	2579,321
2320	50,01666	2578,025
2320	50,60726	2578,046
2320	76,11154	2579,976
2320	79,14356	2580,126
2320	81,24971	2580,361
2320	82,15319	2580,37
2320	86,29549	2580,365
2320	92,33636	2579,788
2320	95,64535	2579,331
2320	115,0663	2579,342
2320	126,763	2579,519
2320	137,8417	2579,912
2320	138,6377	2579,942
2320	138,6509	2579,942
2320	140,8867	2579,908

ABS	DIS_EJE	COTA
2320	150	2579,729
2340	-77,3978	2581,489
2340	-74,6823	2581,543
2340	-70,9332	2581,595
2340	-70,0755	2581,607
2340	-57,7799	2581,683
2340	-57,3265	2581,687
2340	-49,8153	2581,88
2340	-47,2366	2581,905
2340	-37,5592	2581,444
2340	-29,9746	2581,162
2340	-28,6826	2581,099
2340	-27,1153	2581,076
2340	-22,1123	2578,968
2340	-18,8926	2577,607
2340	-18,2076	2577,602
2340	-8,25957	2577,906
2340	-7,27305	2578,152
2340	-3,19985	2577,894
2340	0	2578,163
2340	4,112968	2578,508
2340	8,782797	2577,823
2340	11,97509	2577,823
2340	20,8817	2577,542
2340	31,26915	2580,173
2340	37,7705	2580,94
2340	38,45179	2581,072
2340	38,54968	2581,078



ABS	DIS_EJE	COTA
2340	41,44363	2579,54
2340	44,09941	2578,315
2340	53,02318	2577,855
2340	79,33583	2578,477
2340	80,04938	2578,451
2340	82,63625	2578,292
2340	95,49424	2577,456
2340	101,9874	2577,471
2340	108,1365	2577,483
2340	117,5522	2577,483
2340	120,3161	2578,158
2340	132,4383	2578,588
2340	134,2293	2578,742
2340	134,8945	2578,789
2340	136,1719	2579,035
2340	144,9424	2581,683
2340	148,0694	2582,373
2340	149,6615	2582,05
2340	150	2581,976
2360	-79,5328	2581,657
2360	-78,1451	2581,684
2360	-71,8215	2581,878
2360	-58,2211	2581,872
2360	-53,3167	2581,904
2360	-45,9262	2582,03
2360	-44,0042	2582,07
2360	-39,7802	2582,109
2360	-37,8888	2582,125

ABS	DIS_EJE	COTA
2360	-35,7396	2582,139
2360	-23,3089	2581,892
2360	-14,8733	2581,699
2360	-10,2807	2579,84
2360	-5,47664	2578,017
2360	-4,02472	2577,818
2360	0	2577,774
2360	1,122985	2577,762
2360	3,186295	2577,79
2360	7,355156	2577,815
2360	13,16635	2577,89
2360	18,25148	2577,785
2360	25,56947	2578,19
2360	28,70533	2579
2360	28,7356	2579,007
2360	28,7912	2579
2360	28,92564	2578,996
2360	48,8069	2578,195
2360	56,39638	2578,966
2360	65,03917	2579,538
2360	75,56106	2579,908
2360	79,78	2580,114
2360	85,28401	2580,337
2360	88,45185	2580,367
2360	90,14241	2580,209
2360	94,7742	2580,345
2360	98,68983	2579,466
2360	101,4015	2579,061

ABS	DIS_EJE	COTA
2360	102,2612	2579,001
2360	113,5685	2578,266
2360	120,6602	2577,653
2360	131,014	2577,671
2360	143,5566	2577,81
2360	143,9753	2577,896
2360	145,2604	2577,956
2360	150	2577,905
2380	-86,1579	2581,78
2380	-76,5641	2582,079
2380	-69,874	2582,271
2380	-61,2065	2582,279
2380	-46,5058	2582,142
2380	-39,1514	2582,056
2380	-36,3048	2582,019
2380	-33,3768	2582,026
2380	-32,5631	2581,986
2380	-27,7182	2582,064
2380	-18,4517	2582,279
2380	-14,3413	2582,179
2380	-9,23037	2582,183
2380	-4,12091	2582,304
2380	-3,47716	2581,996
2380	-0,17916	2580,548
2380	0	2580,455
2380	4,567463	2578,101
2380	5,548862	2577,908
2380	6,313762	2577,88

ABS	DIS_EJE	COTA
2380	18,01794	2577,838
2380	18,85247	2577,835
2380	19,71117	2577,903
2380	26,80269	2578,403
2380	27,74273	2578,556
2380	30,51779	2578,74
2380	38,72238	2578,307
2380	60,87701	2577,498
2380	68,09619	2579,169
2380	71,44006	2580,337
2380	75,64842	2580,231
2380	77,39802	2580,233
2380	77,7451	2580,232
2380	80,17872	2579,835
2380	82,67033	2579,525
2380	82,87578	2579,481
2380	84,06698	2579,483
2380	96,46947	2579,25
2380	103,9779	2579,384
2380	111,5214	2579,809
2380	111,5502	2579,798
2380	123,8506	2580,344
2380	123,9069	2580,325
2380	124,6884	2580,201
2380	129,1781	2579,657
2380	131,5425	2579,118
2380	136,2388	2578,564
2380	136,5819	2578,535

ABS	DIS_EJE	COTA
2380	137,8376	2578,486
2380	147,0272	2578,2
2380	149,5222	2578,245
2380	150	2578,261
2400	-66,9292	2581,929
2400	-66,2586	2581,951
2400	-61,4993	2582,168
2400	-55,765	2582,429
2400	-54,6167	2582,431
2400	-42,5911	2582,447
2400	-40,9063	2582,409
2400	-30,4385	2582,242
2400	-19,6938	2582,083
2400	-18,3983	2582,065
2400	-13,9356	2582,076
2400	-10,1704	2582,102
2400	-9,45333	2582,081
2400	-8,57943	2581,593
2400	-3,6236	2578,798
2400	-1,5161	2577,762
2400	-0,78049	2577,61
2400	0	2577,613
2400	6,335225	2577,636
2400	11,03863	2577,648
2400	16,81886	2578,085
2400	19,8049	2578,339
2400	21,09763	2578,36
2400	24,67338	2578,68

ABS	DIS_EJE	COTA
2400	43,00132	2578,073
2400	49,19546	2577,903
2400	50,02931	2578,162
2400	51,38759	2578,228
2400	59,50862	2579,189
2400	63,91614	2579,327
2400	84,00113	2578,926
2400	85,54663	2578,909
2400	87,95386	2578,867
2400	89,10679	2578,596
2400	91,55884	2578,305
2400	100,0167	2577,442
2400	111,4929	2577,451
2400	115,6009	2577,453
2400	117,5114	2578,048
2400	119,3017	2578,306
2400	126,456	2579,539
2400	128,4259	2580,434
2400	129,9518	2580,554
2400	130,4577	2580,607
2400	131,6098	2579,835
2400	135,7785	2578,514
2400	137,2329	2577,807
2400	137,4783	2577,817
2400	137,8644	2577,815
2400	138,9326	2577,811
2400	140,9791	2577,82
2400	150	2577,807

ABS	DIS_EJE	COTA
2420	-62,5504	2581,921
2420	-59,4977	2582,042
2420	-53,0405	2582,178
2420	-50,681	2582,171
2420	-39,8056	2582,098
2420	-37,2704	2582,026
2420	-29,9352	2581,814
2420	-26,9324	2581,789
2420	-20,7051	2581,826
2420	-10,6883	2582,122
2420	-10,5255	2582,127
2420	-10,5068	2582,11
2420	-10,3141	2581,986
2420	-5,60616	2578,986
2420	-4,47558	2577,942
2420	-3,60458	2577,078
2420	-2,05394	2577,082
2420	0	2577,086
2420	5,26829	2577,095
2420	12,63807	2577,862
2420	18,93875	2578,642
2420	22,82673	2579,076
2420	23,36093	2579,091
2420	41,90353	2577,621
2420	49,68396	2577,406
2420	55,9823	2579,367
2420	58,42579	2580,333
2420	59,74063	2580,294

ABS	DIS_EJE	COTA
2420	64,35396	2580,357
2420	64,41338	2580,358
2420	65,09553	2580,246
2420	74,70822	2580,131
2420	77,21562	2580,016
2420	83,11675	2579,913
2420	88,56773	2580,347
2420	89,5876	2579,833
2420	93,21688	2578,98
2420	98,3995	2578,365
2420	103,5936	2577,769
2420	105,2501	2577,533
2420	116,5218	2577,483
2420	119,306	2577,483
2420	120,6727	2577,951
2420	123,2903	2578,41
2420	133,2976	2579,095
2420	134,7611	2579,585
2420	136,1797	2579,864
2420	140,4969	2580,704
2420	142,0558	2580,745
2420	146,5354	2579,246
2420	148,3053	2578,436
2420	149,0697	2578,324
2420	150	2578,229
2440	-57,8759	2581,684
2440	-56,7257	2581,71
2440	-49,1912	2581,38

ABS	DIS_EJE	COTA
2440	-49,0247	2581,379
2440	-36,303	2581,605
2440	-35,4603	2581,581
2440	-27,6109	2581,668
2440	-26,1681	2581,661
2440	-18,6763	2581,853
2440	-10,4151	2581,656
2440	-8,75809	2581,7
2440	-8,38297	2581,361
2440	-7,08249	2580,322
2440	-3,43468	2577,538
2440	0	2577,538
2440	1,902257	2577,538
2440	5,138829	2577,538
2440	10,87855	2577,916
2440	30,90774	2578,361
2440	43,23791	2578,727
2440	45,31642	2578,647
2440	54,56209	2579,376
2440	58,53391	2580,345
2440	59,86547	2580,318
2440	63,00458	2580,226
2440	63,2411	2580,228
2440	65,92872	2579,799
2440	67,18972	2579,47
2440	72,05149	2579,48
2440	78,29741	2579,28
2440	83,54487	2579,353

ABS	DIS_EJE	COTA
2440	90,91182	2579,958
2440	90,95461	2579,94
2440	96,35071	2580,303
2440	97,43508	2579,726
2440	99,47723	2579,17
2440	104,0953	2578,639
2440	110,8012	2577,687
2440	118,0689	2577,654
2440	125,2035	2577,701
2440	126,4177	2578,088
2440	132,2003	2578,587
2440	135,6128	2578,678
2440	142,6881	2581,411
2440	145,918	2581,174
2440	150	2580,77
2460	-61,5112	2581,126
2460	-53,7712	2581,148
2460	-53,6365	2581,146
2460	-52,9278	2581,149
2460	-43,8287	2581,418
2460	-43,2494	2581,437
2460	-43,1944	2581,436
2460	-43,0955	2581,437
2460	-28,196	2581,577
2460	-20,954	2581,685
2460	-14,9566	2581,82
2460	-5,3483	2581,423
2460	-4,11458	2581,392

ABS	DIS_EJE	COTA
2460	-3,53315	2580,546
2460	-1,05725	2577,542
2460	0	2577,542
2460	5,007107	2577,542
2460	7,554292	2577,542
2460	25,50409	2578,025
2460	41,34169	2578,536
2460	47,96435	2578,333
2460	53,27399	2578,822
2460	59,55059	2580,344
2460	61,42534	2580,306
2460	63,82381	2580,236
2460	64,01278	2580,238
2460	66,24835	2579,887
2460	67,91997	2579,466
2460	73,62825	2579,48
2460	79,42097	2579,283
2460	84,41672	2579,337
2460	92,70004	2580,03
2460	92,75435	2580,009
2460	96,83517	2580,291
2460	98,20075	2579,533
2460	99,55638	2579,142
2460	105,8742	2578,366
2460	110,8096	2577,629
2460	121,2836	2577,561
2460	124,3897	2577,573
2460	125,7546	2578,024

ABS	DIS_EJE	COTA
2460	134,2248	2578,635
2460	134,689	2578,734
2460	135,7269	2578,813
2460	144,2525	2581,625
2460	145,466	2581,802
2460	146,704	2581,892
2460	150	2580,15
2480	-72,2205	2581,14
2480	-66,7735	2581,156
2480	-64,6486	2581,122
2480	-56,305	2581,162
2480	-55,5181	2581,16
2480	-54,0402	2581,186
2480	-52,2445	2581,186
2480	-43,5274	2581,157
2480	-40,6772	2581,162
2480	-32,3164	2581,336
2480	-29,8831	2581,4
2480	-23,8957	2581,803
2480	-21,2439	2581,864
2480	-15,0882	2581,947
2480	-4,95635	2581,901
2480	-2,55296	2581,842
2480	-2,18185	2581,302
2480	-0,58735	2579,339
2480	0	2578,56
2480	0,764356	2577,546
2480	8,103145	2577,546

ABS	DIS_EJE	COTA
2480	9,324619	2577,546
2480	26,51553	2578,009
2480	49,19308	2579,678
2480	52,78154	2579,462
2480	56,56386	2580,372
2480	58,17541	2580,32
2480	60,03762	2580,282
2480	61,95418	2579,774
2480	64,28452	2579,438
2480	72,20429	2579,458
2480	76,7814	2579,609
2480	84,99049	2579,69
2480	88,05746	2579,731
2480	96,90666	2580,324
2480	97,73955	2580,359
2480	101,3182	2579,27
2480	101,3613	2579,251
2480	101,3935	2579,245
2480	101,4543	2579,238
2480	111,2404	2577,777
2480	114,4638	2577,756
2480	125,3514	2577,799
2480	125,7224	2577,921
2480	127,77	2578,112
2480	135,1225	2578,4
2480	139,8041	2580,328
2480	145,2939	2580,268
2480	150	2580,088

ABS	DIS_EJE	COTA
2500	-78,8778	2581,149
2500	-75,0211	2581,161
2500	-71,8493	2581,107
2500	-66,4274	2581,134
2500	-63,1768	2581,122
2500	-59,528	2581,19
2500	-58,8896	2581,195
2500	-57,9127	2581,243
2500	-54,5874	2581,244
2500	-50,3904	2581,167
2500	-37,8654	2581,271
2500	-37,5267	2581,282
2500	-32,2237	2581,26
2500	-27,6557	2581,243
2500	-27,3764	2581,262
2500	-23,9738	2581,295
2500	-16,0411	2581,508
2500	-12,5641	2581,469
2500	-8,57087	2581,597
2500	-5,71266	2581,102
2500	-1,04531	2578,589
2500	0	2577,883
2500	0,089908	2577,822
2500	2,535132	2577,549
2500	9,180616	2577,55
2500	13,03691	2577,55
2500	26,40276	2578,481
2500	53,04375	2580,242

ABS	DIS_EJE	COTA
2500	53,3392	2580,306
2500	56,50016	2580,026
2500	57,6665	2579,988
2500	61,71341	2579,862
2500	63,64639	2579,586
2500	70,1647	2579,556
2500	79,24428	2579,703
2500	80,50415	2579,711
2500	86,04921	2579,776
2500	90,15121	2579,729
2500	101,861	2579,982
2500	111,3717	2580,171
2500	113,5294	2579,638
2500	122,386	2577,799
2500	125,323	2577,822
2500	139,1158	2578,222
2500	139,9543	2578,221
2500	148,2872	2578,165
2500	150	2578,182
2520	-87,033	2581,163
2520	-85,2313	2581,168
2520	-80,2787	2581,085
2520	-78,4352	2581,094
2520	-71,6161	2581,069
2520	-71,5802	2581,07
2520	-71,5021	2581,071
2520	-66,7147	2581,022
2520	-53,4862	2580,895

ABS	DIS_EJE	COTA
2520	-52,8163	2580,91
2520	-52,4727	2580,909
2520	-42,6862	2581,228
2520	-39,1479	2581,213
2520	-27,4492	2581,067
2520	-22,4111	2581,228
2520	-17,8696	2581,215
2520	-13,6479	2580,49
2520	-10,8965	2580,298
2520	-7,1629	2578,291
2520	-1,83575	2577,925
2520	0	2577,803
2520	3,766954	2577,553
2520	9,442148	2577,553
2520	13,71101	2577,553
2520	49,28809	2580,089
2520	52,62603	2580,33
2520	55,46846	2580,358
2520	58,22114	2580,052
2520	58,9355	2580,032
2520	59,00791	2580,005
2520	59,29149	2579,997
2520	68,13284	2579,982
2520	68,34353	2579,981
2520	68,40712	2579,98
2520	70,2494	2579,972
2520	76,95184	2579,919

ABS	DIS_EJE	COTA
2520	79,24783	2579,917
2520	84,99988	2579,814
2520	91,25199	2579,838
2520	98,72188	2579,773
2520	103,0681	2579,704
2520	109,9288	2579,64
2520	120,2865	2580,032
2520	129,9835	2580,068
2520	134,7591	2580,269
2520	138,5301	2580,331
2520	143,8847	2580,309
2520	150	2579,899
2530,7691	-91,4242	2581,17
2530,7691	-90,7291	2581,172
2530,7691	-85,2377	2581,08
2530,7691	-84,6447	2581,058
2530,7691	-84,2206	2581,068
2530,7691	-74,1796	2581,014
2530,7691	-65,8147	2580,934
2530,7691	-52,0848	2581,235
2530,7691	-45,5173	2581,214
2530,7691	-45,1773	2581,222
2530,7691	-44,2332	2581,237
2530,7691	-43,8415	2581,177
2530,7691	-27,4212	2580,972
2530,7691	-25,8586	2581,022
2530,7691	-24,45	2581,018

ABS	DIS_EJE	COTA
2530,7691	-17,6247	2579,847
2530,7691	-13,1766	2579,536
2530,7691	-11,2224	2578,485
2530,7691	-8,43407	2578,294
2530,7691	0	2577,734
2530,7691	2,706727	2577,554
2530,7691	4,393921	2577,554
2530,7691	12,63677	2577,554
2530,7691	30,34225	2578,816
2530,7691	52,51809	2580,353
2530,7691	54,60678	2580,373
2530,7691	55,58414	2580,171
2530,7691	65,69853	2580,067
2530,7691	66,4581	2580,062
2530,7691	71,02415	2580,05
2530,7691	75,2471	2580,017
2530,7691	85,46219	2580,009
2530,7691	94,73642	2579,983
2530,7691	99,49981	2579,907
2530,7691	122,4724	2579,693
2530,7691	123,2289	2579,722
2530,7691	123,9371	2579,724
2530,7691	135,1832	2580,198
2530,7691	144,0637	2580,345
2530,7691	145,812	2580,338
2530,7691	150	2580,057

## ANEXO 3

# CERTIFICADOS CALIBRACION EQUIPOS



# INTOPCOL S.A.S

Ingeniería y Topografía Colombiana S.A.S

Bogotá D.C. 01 de septiembre de 2016

Señor:  
**JHOAN SEBASTIÁN PULIDO**  
Ciudad

**REF: CERTIFICADO DE CALIBRACIÓN DE ESTACIÓN TOTAL MARCA NIKON MODELO DTM-521 S/N: 035380**

**INGENIERÍA Y TOPOGRAFÍA COLOMBIANA S.A.S.** CERTIFICA que el equipo en mención ha sido sometido al proceso de confirmación metrológica utilizando los equipos de medición recomendados por **NIKON** y siguiendo los parámetros indicados por el fabricante, teniendo como referencia el manual de reparación y calibración suministrado por el fabricante. Estos procedimientos cumplen con los estándares de calidad internacional según lo establecido por el fabricante.

Telescopio	Imagen Aumento Campo de Visión Poder de Resolución Distancia mínimo de enfoque	Directa 33X 1°20'(2,3m a 100m) 1.30" 1,5m./ 4,26 pies 2000m
Medición de distancia	Con Prisma Precisión modo MSR	+(2 + 3ppm x D ) mm
Medición de Ángulos	Sistema de Lectura  Incremento mínimo (grados sexagesimales) Incremento mínimo (grados centesimales) Precisión	Detección fotoeléctrica mediante codificador Detector Para V/H 1° o 5" 0,2 mgon o 1 mgon 3"
Compensador vertical automático	Sistema Margen de trabajo Precisión de ajuste	Detección eléctrica por líquido ± 3" ± 1" + 0,1 mg
Lumi-Guide	Margen de Trabajo Precisión de posicionamiento	Mayor de 100m/330 pies Dentro de aproximadamente 6 Cm
Niveles	Sensibilidad de ampolla de nivel plana	30'/2 mm

Calle 131B N° 58 – 07 PI  
Bogotá Colombia  
Tel. 4791413 Cel.: 3112239169  
NIT: 900.657.171-6  
www.intopcol.com  
[ventas@intopcol.com](mailto:ventas@intopcol.com) - [ingenieria@intopcol.com](mailto:ingenieria@intopcol.com)

# INTOPCOL S.A.S

Ingeniería y Topografía Colombiana S.A.S

Plomada óptica	ok	ok
Pantalla	tipo	LCD
Capacidad de memoria	Puntos / coordenadas	10000 puntos
Batería	Batería BC-50	7.2 V

Esta Certificación tiene una validez de seis (6) meses a partir de 01 de septiembre de 2016 hasta 31 de marzo de 2017

Atentamente,

**INTOPCOL SAS**  
Ingeniería y Topografía  
**COLOMBIANA SAS**  
Bogotá - Colombia  
Tel. 900.657.171-6

**SERGIO ANDRÉS PÁEZ VASQUEZ**  
Departamento Técnico  
Tel: 314 784 3451

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Bogotá Colombia  
Tel. 4791413 Cel.: 3112239159  
NIT: 900.657.171-6  
www.intopcol.com

[ventas@intopcol.com](mailto:ventas@intopcol.com) - [ingenieria@intopcol.com](mailto:ingenieria@intopcol.com)



No. **23956**

### ESPECIFICACIONES TÉCNICAS SEGUN FABRICANTE

Aumentos del telescopio	30X	Alcance sin reflector	-----
Precisión angular (DIN 18723)	5"	Alcance con dianas reflectivas	-----
Precisión en distancia	± (2mm+2ppmXD)	Alcance con un prisma	2000 m

### AJUSTES EFECTUADOS

**CODIGOS** 1: Correcto 2: Falla corregida 3: No corregida 4: No aplica

	1	2	3	4		1	2	3	4
Limpieza exterior	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ajuste del nivel circular	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mantenimiento interno	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ajuste del sistema de enfoque	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mantenimiento base nivelante	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ajuste del retículo	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prensa horizontal y vertical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ajuste de la verticalidad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornillo de movimiento fino H y/o V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ajuste de colimación	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chequeo del teclado	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ajuste de plomada óptica o láser	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ajuste del compensador	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ajuste de las mirillas de puntería	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ajuste del nivel tubular	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ajuste del distanciómetro	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### AJUSTE CON COLIMADORES

DESCRIPCION	TOLERANCIA	ERROR	DESCRIPCION	TOLERANCIA	ERROR
Punto O compensador	<10"	<10"	Colimación vertical	<10"	<2"
Nivel tubular	<15"	<15"	Verticalidad	<20"	<20"
Nivel circular	<5"	<5"	Plomada óptica u láser	<1mm	<1mm
Colimación horizontal	<10"	<2"			

### AJUSTE CON LINEAS BASE

Constante de Prisma: -30mm PPM: 7...

DISTANCIA (mm)	PROMEDIO (10 Medidas)	DESVIACIO N ESTANDAR	INCERTIDUMB RE (mm)	TOLERANCIA (mm)	Error (mm)
6320.99	6320.7	0.48	0.15	± 2.0	-0.29

Fin de este documento.

**Compra, Venta, Alquiler, Reparación, Mantenimiento y Ajuste de Equipos Topográficos**

BB Equipos Topográficos S.A.S. - Cra. 19 B No. 83 - 63 Oficina 401, Bogotá D.C. - PBX: 893 26 26  
FAX: 852 21 70 - [serviciotecnico@bbequipostopograficos.com](mailto:serviciotecnico@bbequipostopograficos.com) - [www.bbequipostopograficos.com](http://www.bbequipostopograficos.com)

**TOPCON**

**SOKKIA**

**Trimble**

**KING**

**Nikon**

**Leica**

**PENTAX**

**SPECTRA**

**seco**





No. 23956

## CERTIFICADO

Equipo: Estación Total Electrónica

Marca: Topcon

Modelo: GTS-229

Número de Serie: UP5096

Cliente: JUAN CARLOS ARENAS

Fecha de expedición: 28 de Febrero 2017

Recomendamos ajustar: 28 de Agosto 2017

¿Equipo nuevo? ☐ Si ☒ No

1. El servicio técnico de BB Equipos Topográficos S.A.S. no se responsabiliza de los perjuicios que pueda ocasionar el uso inadecuado del equipo verificado.
2. El cliente es responsable del transporte del equipo y uso de este certificado.
3. Los resultados del presente certificado se refieren al momento y condiciones en que se realizaron las mediciones.

Equipo Utilizado:

Sistema de Colimación Geo-Master QCS-3A S/N: 0015 , Certificado el 03-08-2016 .

Patrones Utilizados:

Estación Total Sokkia CX-105 S/N: GS7946, Calibrado el 29-12-2015.  
Nivel Automático Sokkia B20 S/N: QT3794 Calibrado el 29-12-2015.

Elaboró:

*José Espinola*  
Técnico



Aprobó:

*Cristian Ortega*  
Técnico Jefe

Compra, Venta, Alquiler, Reparación, Mantenimiento y Ajuste de Equipos Topográficos

BB Equipos Topográficos S.A.S. - Cra. 19 B No. 83 - 63 Oficina 401, Bogotá D.C. - PBX: 893 26 26  
FAX: 552 21 70 - [serviciotecnico@bbequipos-topograficos.com](mailto:serviciotecnico@bbequipos-topograficos.com) - [www.bbequipos-topograficos.com](http://www.bbequipos-topograficos.com)



## ANEXO 4

# ESPECIFICACIONES TÉCNICAS EQUIPOS

# Leica GPS1200 Series Sistema GNSS de altas prestaciones



- when it has to be **right**

**Leica**  
Geosystems

# Leica GPS1200

## Es compatible con todas las señales GNSS

Ahora con el motor de mediciones ultra preciso GNSS (Global Navigation Satellite System), que es compatible tanto con GPS como con GLONASS, usted se puede beneficiar de hasta un 100 % más de satélites de los que tiene con sólo GPS. Los receptores Leica System 1200 proporcionan toda la flexibilidad, potencia y rendimiento necesarios para todo tipo de aplicaciones GNSS. Diseñado para resistir las más duras especificaciones MIL, soportan temperaturas extremas, las peores condiciones atmosféricas y las más duras situaciones.

### La mejor tecnología GNSS y RTK

Rápida adquisición de satélites, mediciones de alta precisión, seguimiento a baja elevación, la primera tecnología a nivel mundial en mitigar el efecto multipath, resistente a las interferencias, rápido intervalo de actualización, latencia baja, y RTK rápido, fiable y de largo alcance.

### GNSS/TPS: Interfaz estandarizada

Tedado y pantalla táctil, interfaz intuitiva, potente gestión de datos, rutinas y programas integrados: fáciles e idénticos para GNSS y TPS.

### SmartRover: muy ligero

El SmartRover es un equipo móvil GNSS RTK completo, todo en el bastón y sin cables, sólo pesa 2,8 kg. Trabaje todo el día cómodamente y disfrute de total compatibilidad con SmartStation y SmartPole.

### Totalmente resistente al agua, increíblemente robusto

Los receptores GPS1200 están diseñados para trabajar en cualquier lugar y bajo las más duras condiciones imaginables. Flotan, soportan caídas, sacudidas y vibraciones, funcionan perfectamente con lluvia, polvo, arena y nieve, y temperaturas desde -40°C a +65°C.

### Totalmente versátil

GPS1200 funciona como referencia y móvil en cualquier modo, desde estático a RTK. Es pequeño, ligero y soporta todos los formatos y dispositivos de comunicación. Puede usarse en bastón, minimochila, sobre trípode o incluso sobre maquinaria, barco o avión.

### Para todas las aplicaciones

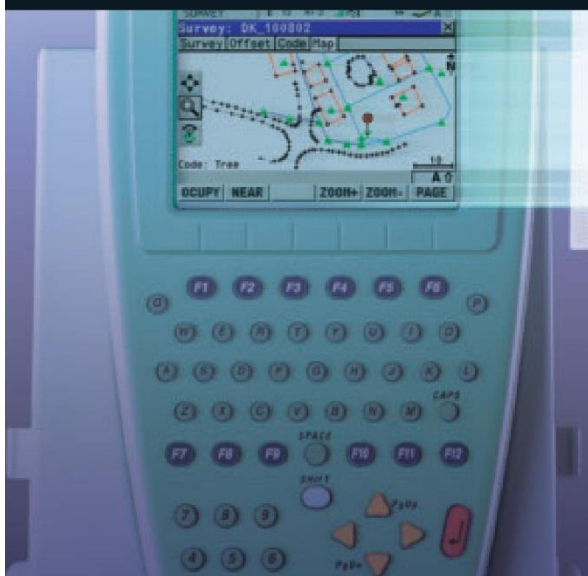
Utilice el GPS1200 para todo: control, topografía, ingeniería, mapas catastrales, replanteo, monitorización, sismografía; para lo que quiera.



**FUNCTION**  
integrated

Combine GNSS y TPS. Úselos de la misma manera. Cambie fácilmente de uno a otro. Trabaje más rápido, con mayor precisión y eficacia. Disfrute toda la libertad, flexibilidad y potencia del sistema 1200.

#### Leica SmartStation



TPS1200+ con GNSS integrado. Toda TPS1200+ es actualizable a Smartstation.



#### Leica GPS1200

Tecnología punta GNSS con un potente gestor de datos. Perfecto para todas las aplicaciones GNSS.







## Leica System 1200

GNSS y TPS  
Trabajando juntos  
Para todas las aplicaciones  
Hoy y en el futuro

Diseñado y construido según los más estrictos estándares y las últimas tecnologías de medición, los instrumentos Leica System 1200 son extremadamente eficaces y fiables, y aguantan los entornos más severos.

Una nueva interfaz, muy intuitiva, un amplísimo número de funciones y características, un potente gestor de datos y las posibilidades de programación por parte del usuario son aspectos comunes en ambos instrumentos GNSS y TPS System 1200.

Los usuarios pueden cambiar instantáneamente entre GNSS y TPS, y usar en cada momento el más conveniente y adecuado; sin necesidad de una formación adicional.

Estos instrumentos GNSS y TPS de alta tecnología con idéntico funcionamiento le permiten hacer todo tipo de trabajo más rápidamente, con mayor precisión y con una eficacia como nunca hasta ahora.

Y lo más importante, reduce sus costes e incrementa sus beneficios.

Leica TPS1200+	Leica SmartPole	Leica SmartWorx	Leica Geo Office
----------------	-----------------	-----------------	------------------

Estaciones totales de altas prestaciones y elevada precisión para hacer todo lo que quiera y mucho más.



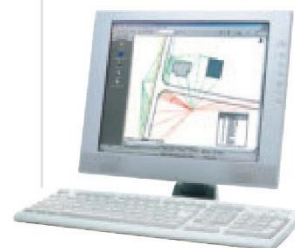
Ahorre tiempo con el estacionamiento on-the-fly de SmartPoles y cambie fácilmente entre GNSS y TPS cuando lo necesite.



El software de aplicación SmartWorx TPS/GNSS es fácil de usar y extremadamente potente.



Todo lo que necesita en un único software para TPS y GNSS: importación, visualización, conversiones, control de calidad, procesamiento, ajuste, informes, exportación, etc.



# Leica GPS1200

## Rápido, preciso, robusto y fiable

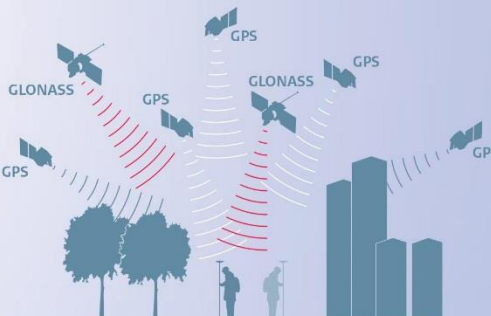


### Tecnología GNSS

La tecnología SmartTrack+ recibe todas las señales GNSS disponibles (L2C y GLONASS). Más satélites significa más productividad, precisión y fiabilidad. SmartTrack+ recibe satélites en segundos, ideal en entornos urbanos y obstruidos donde a menudo otros receptores pierden la señal. GPS1200 con SmartTrack+ está diseñado para soportar futuras señales GPS L5 y Galileo.

### SmartCheck+

El control continuo de satélites disponibles proporciona las más elevada fiabilidad posible. Un sistema particular de monitorización integral incorporado revisa todos los resultados inmediatamente. SmartCheck+ procesa ahora las mediciones con GPS y GLONASS simultáneamente para obtener precisión centimétrica, 20 Hz RTK a 30 km y más. Inicialice en segundos y trabaje en áreas con obstrucciones con el sensor GX1230 (sólo GPS) o aumente su productividad con un GX1230 GG/ATX1230 GG (GPS y GLONASS).



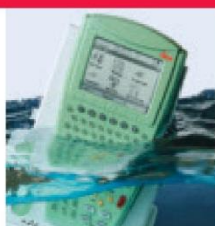
### SmartRTK

Con el SmartRTK y RTCM 3.1 de Leica Geosystems, los datos de corrección, el rendimiento y la tranquilidad están garantizados. Nunca más tendrá que preocuparse por la pérdida de consistencia y trazabilidad gracias a una estación de referencia móvil controlada virtualmente. SmartRTK utiliza hitos de estación de referencia fijos en los que los topógrafos pueden confiar. SmartRTK no sólo aporta beneficios con RTCM 3.1, la nueva tecnología de decorrelador atmosférico permite un posicionamiento preciso en todas las redes, independientemente de los datos de corrección.



### Excepcionalmente resistente

No se preocupe por el modo en que las cuadrillas de operadores tratan los GPS1200. Están contruidos según estrictas especificaciones para resistir el manejo más duro. Con su fuerte y precisa carcasa de magnesio mecanizado, el GPS1200 soporta las caídas y las sacudidas, así como las vibraciones de las máquinas.



### Insensible al mal tiempo

diseñado para temperaturas de -40°C hasta +65°C (almacenamiento +80°C), al GPS1200 no le afectan ni el frío ártico ni el calor abrasador. Completamente estanco al agua – soporta la inmersión a 1 m – a la arena y al polvo, funciona perfectamente con lluvias tropicales o tormentas de arena en el desierto. El GPS1200 siempre sigue trabajando.

### Pantalla táctil de gran contraste

La pantalla táctil 1/4 VGA (11 líneas con 32 caracteres) con color opcional (RX1250) garantiza una claridad y un contraste perfectos. Tanto al atardecer, como con sol brillante, siempre podrá leer la pantalla perfectamente. Trabaje usando la pantalla táctil o el teclado QWERTY, lo que prefiera.

### Con controlador o sin él

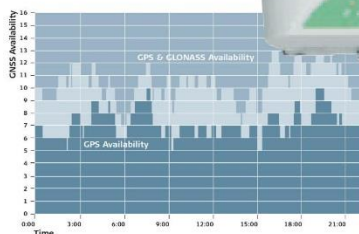
Conecte el controlador al receptor cuando necesite introducir información y utilizar todas las funciones y programas integrados.

### Comunicación RTK/DGPS

Los radiomódems, los módulos GSM, GPRS y CDMA se incluyen en receptáculos estancos al agua sujetos al receptor. Pueden montarse uno o dos dispositivos para aplicaciones de estaciones móviles o de referencia RTK/DGPS.

Con la tecnología inalámbrica Bluetooth® incorporada en el controlador RX1250 se dispone de funcionalidad completa sin cables y de conectividad con productos inalámbricos compatibles.





### GLONASS

Durante muchos años, el sistema GLONASS no podía contar con la necesaria fiabilidad en términos de disponibilidad de satélites y prestaciones del sistema. Con los últimos lanzamientos y compromisos del gobierno ruso, la fiabilidad y la disponibilidad han mejorado de manera importante. En condiciones normales hay de 2 a 5 satélites adicionales si lo comparamos con una constelación sólo GPS; y habrá muchos más satélites disponibles en los próximos dos años. Ahora es el momento de invertir en la tecnología híbrida GNSS.

### Receptores GPS1200 GX1230 (GG)/ATX1230 GG

- Receptor universal para todas las aplicaciones
  - 14 L1 + 14 L2 (GPS)
  - Soporta L2C
  - 12 L1 + 12 L2 (GLONASS) → GX1230 GG/ATX1230 GG
  - 2 SBAS
  - Registro de datos
  - RTK y DGPS 100% disponible
  - Función Móvil o Referencia
- ### GX1220 (GG)/GX1210
- 14 L1 + 14 L2 (GPS) → GX1210: sólo 14 L1 (GPS)
  - Soporta L2C → GX1220 (GG)
  - 12 L1 + 12 L2 (GLONASS) → GX1220 GG
  - 2 SBAS
  - Registro de datos
  - Opción: DGPS

### SmartStation con SmartAntenna

Las SmartStation es una TPS1200+ con una SmartAntenna ATX1230 GG. Todas las funciones GNSS y TPS se controlan desde el teclado de la TPS, base de datos común, todas la información se muestra en la pantalla de la TPS. Pulse la tecla TPS y mediante RTK determine la posición con precisión centimétrica, luego mida y replantee con la TPS. Puede hacer lo que desee con SmartStation. También puede usar la SmartAntenna independientemente sobre un bastón con un controlador RX1250.

### Equipo modular y ligero

Úselo de la manera que mejor le convenga.

### ■ Todo en bastón

Ligero y excelentemente equilibrado. Ideal para replanteo en obras y otras tareas exigentes.

### ■ Bastón y minimochila

Mínimo peso en su mano para realizar levantamientos durante horas.

### ■ Sobre trípode o pilar

Para controles geodésicos y estaciones de referencia.

### ■ Todo en la minimochila

Para DGPS de 30 cm, GIS y levantamientos sísmicos.



Perfecto flujo de trabajo

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### Iluminación del teclado

Conecte la iluminación de la pantalla y del teclado para trabajar de noche. Todas las teclas se iluminan.

### Use el GPS1200 para todo

- Para registros de datos RTK, DGPS y estáticos
- Como móvil o referencia
- Sobre bastón, trípode, pilar o en una minimochila
- Sobre máquinas de construcción, barcos de batimetrías o aviones
- Para todo tipo de aplicaciones

### Elección de bastón RTK

Bastón de fibra de carbono o aluminio con mango universal ajustable y ergonómico.

### Leica Geo Office

Paquete de soporte por software para GNSS y TPS con herramientas y componentes para importación, visualización, conversiones, control de calidad, procesamiento, ajuste, informes, exportación, etc.

### Tarjetas CompactFlash

Las mismas tarjetas CompactFlash para GNSS y TPS.

### Baterías de Ión-Li

GPS1200 usa las mejores baterías disponibles de alta capacidad para una alimentación fiable y de larga duración. Trabaje hasta 17 horas con sólo dos baterías de ión-litio.

### Estaciones totales TPS1200+

GNSS y TPS usan las mismas tarjetas CompactFlash, mismos formatos y misma gestión de datos. Transfiera las tarjetas de uno a otro y continúe trabajando del mismo modo.



FUNCTION  
integrated  
LEICA SYSTEM 1200

# Leica GPS1200

## Extremadamente potente

## Y muy fácil de usar

GPS1200 tiene cargadas multitud de características y funciones para las muchas y diferentes necesidades de los usuarios de todo el mundo, y aún así es notablemente sencillo de usar.

El concepto de funcionamiento gráfico del GPS1200 es autoexplicativo y le guía directamente a lo que usted necesita.

Puede usar las configuraciones predeterminadas o, si lo prefiere, puede configurar el GPS1200 para operar, mostrar u obtener datos del modo que necesite exactamente.

Cuando utilice GPS1200, verá que todo es sencillo de entender.

Incluso mejor, advertirá que el GPS1200 y la TPS1200+ con completamente compatibles con las mismas tarjetas Compact-Flash, gestión de datos, pantallas y teclados.

Según los trabajos que haga, puede cambiar fácilmente de GNSS a TPS y continuar trabajando exactamente de la misma manera.

Trabaje con el GPS1200 usando el teclado QWERTY o la gran pantalla táctil gráfica, como prefiera.



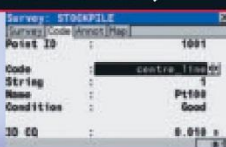
### Modo de vista gráfica



Las vistas gráficas le muestran su trabajo. Acerque la vista para consultar los detalles o aléjela para levantamientos completos. Use la pantalla táctil o el teclado para acceder a los datos relacionados con puntos y objetos.

Con vistas gráficas puede hacer comprobaciones rápidamente en campo para completar o corregir.

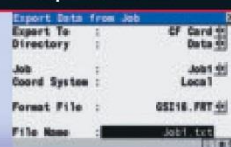
### Codificación y planificación de su trabajo



Defina puntos, líneas y áreas para integrar un plano en la pantalla según va levantando. Verá inmediatamente lo que ha hecho. Añada códigos, atributos e información necesaria para introducirlo en su software de oficina o mapping.

System 1200 tiene todo tipo de herramientas y es increíblemente versátil.

### Exportación de datos en cualquier formato



Los datos pueden exportarse desde el GPS1200 o a través de Leica Geo Office en varios formatos estándar o en su propio formato para introducirlo directamente en cualquier tipo de software de procesamiento, oficina, CAD o mapping.

El sistema 1200 se enlaza fácilmente con paquetes de programas de terceros.





#### Iconos de estado

Indican los modos actuales de medición y operación, grabación y estado de baterías, configuración del instrumento, etc.

#### Teclas de función configurables

Asignar comandos, funciones, pantallas, etc. a estas teclas para acceso inmediato.

#### Menú de usuario configurable

Configure su propio menú de usuario según su forma de trabajar y la de su personal. Muestre lo que necesite y oculte el resto.

#### Teclado QWERTY

El diseño QWERTY estándar en el teclado del controlador facilita la rápida y fácil introducción de datos alfanuméricos e información.

#### Menú de programas

Acceso directo a todos los programas cargados, ya sean levantamientos, replanteos, COGO etc. y programas de aplicación opcionales.

#### Gran pantalla gráfica

LCD 1/4 VGA de alta resolución, con pantalla a color opcional (RX1250), fácil de leer con cualquier luz. La pantalla y el teclado se iluminan para trabajar en la oscuridad.

#### Pantalla táctil

La pantalla táctil del controlador permite el acceso inmediato sin usar el teclado. Puede ver datos e información relacionada con puntos y objetos y acceder a todo tipo de funciones directamente a través de la pantalla. Use la pantalla táctil y/o el teclado, como usted prefiera.

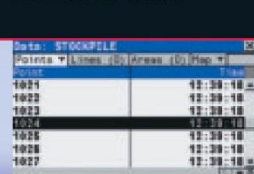
#### Pantallas definibles por el usuario



Con el GPS1200 podrá definir diferentes máscaras de visualización para que muestren exactamente lo que usted y su personal quiera ver durante el levantamiento en campo. Defina las pantallas de acuerdo a los trabajos que hace y a la información requerida.

GPS1200 se adapta perfectamente a sus necesidades.

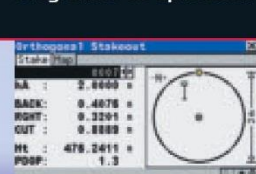
#### Gestión de datos



La potente base de datos gestiona datos, ficheros, trabajos, comprobaciones de calidades, etc. Puede ver, editar, borrar y buscar con o sin filtros. Las coordenadas de puntos medidos más de una vez son promediadas para asegurar que se mantengan dentro de las tolerancias especificadas.

Hacer levantamientos es mucho más sencillo y más fiable con System 1200.

#### Programas de aplicación



GPS1200 se suministra con muchos y útiles programas como Levantamiento, Replanteo y COGO. Otros programas como Avance, Línea de Referencia y Replanteo DTM son opcionales. Puede escribir sus propios programas en GeoC++ para aplicaciones especiales.

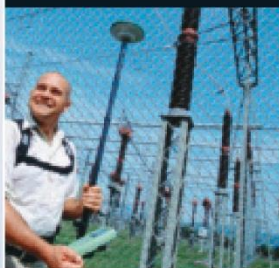
La mayoría de los programas funcionan tanto en GNSS como en TPS.



# Leica GPS1200

## Excelentes mediciones y rendimiento RTK

### SmartTrack+

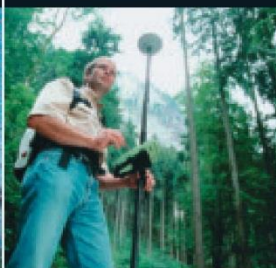


#### Tecnología GNSS líder en el mundo

Mediciones sin interferencias, fiables y de alta precisión son la base para todo trabajo de topografía satelital. Cuanto más precisos son los datos colectados y más satélites puedan ser observados, mejor es el rendimiento y los resultados. El sistema de medición SmartTrack+, completamente nuevo, y la antena provista con el GPS1200 se complementan perfectamente para obtener el mejor rendimiento de receptor posible:

- Adquisición de señal en segundos
- Excelente intensidad de señal
- Seguimiento a bajas elevaciones
- Suprime fases y códigos multipath
- Resistente las interferencias
- Mediciones GPS y GLONASS de alta calidad
- Perfecto seguimiento de satélites en entornos dinámicos
- Totalmente fiable

### SmartCheck+



#### Rápida RTK +30km autochequeo

Los algoritmos SmartCheck+ cargan y procesan las mediciones Smart-Track y proporcionan rápidos y precisos RTK. Las posiciones de precisión centimétrica están disponibles constantemente con tasas de hasta 20 Hz. La monitorización integral funciona en segundo plano resolviendo ambigüedades y verificando las coordenadas. La fiabilidad es fenomenal (99,99 % para líneas base hasta 30 km) y el alcance es excelente.

- Para cualquier trabajo, tanto si el receptor está sobre un bastón o un vehículo, encontrará en el GPS1200 RTK la herramienta perfecta:
- Se inicia en segundos
- Mide entre árboles y obstrucciones
- Actualiza la posición cada 0,05 segundos (20 Hz)
- Latencia inferior a 0,03 segundos
- Precisión centimétrica coherente
- Fiabilidad total

### Estaciones de referencia



#### GPS1200 en sitios CORS

Organizaciones de muchos países están implementando estaciones de referencia GNSS. El GPS1200 con antena SmartTrack+ o antenas IGS/Dorne y Margolin choke-ring es ideal para una estación de referencia de operación continua (CORS). Registra y transmite datos, genera RTK y DGPS para la transmisión a estaciones RTK y GIS, y es perfecto para usarlo con GNSS SPIDER, el software para estaciones de referencia de Leica.

- Gracias a que GPS1200 acepta todos los formatos (Leica, CMR, RTCM) y genera mensajes estándar (NMEA), las estaciones móviles RTK de GPS1200 trabajan perfectamente con todas las estaciones de referencia instaladas alrededor del mundo.
- Con una sola estación de referencia
- Con redes de estaciones
- Con MAX e i-MAX
- Con correcciones de área (FKP) y estaciones de referencia virtuales (VRS)



## Todo lo que necesite para todas las aplicaciones



### SmartRover

#### SmartRover – peso sumamente ligero

La SmartRover es una estación móvil de GNSS RTK completa, todo en bastón y sin cables, que sólo pesa 2,8 kg. Trabaje el día entero cómodamente y disfrute de la total compatibilidad con SmartStation y SmartPole.

SmartRover es totalmente compatible con SmartStation y SmartPole mediante la SmartAntenna intercambiable. Utilizando la tecnología inalámbrica Bluetooth®, el nuevo y ligero controlador RX1250 comunica con la SmartAntenna para proporcionar posicionamiento RTK con precisión centimétrica. SmartRover ofrece muchas ventajas:

- Un peso de sólo 2,8 kg
- SmartAntenna intercambiable entre SmartStation, SmartPole y SmartRover
- El montaje "todo en bastón" sin cables es ideal para aplicaciones en la construcción

### SmartStation

#### GNSS y TPS perfectamente combinados

La estación total TPS1200 con SmartAntenna de GNSS combinada en un sólo instrumento fácil de usar. Ideal para la medición a puntos que no pueden ser ocupados por una estación móvil RTK. Elimina la necesidad de puntos de control, poligonales e intersecciones inversas cuando se utiliza una estación total. Estacione la SmartStation y deje que la RTK fije la posición con precisión centimétrica, luego mida y replantee con la TPS. Una vez que la SmartStation está posicionada, utilice la SmartAntenna en un bastón con un controlador y un sensor, como una estación móvil RTK.

- Utilice TPS y GNSS juntos
- Determine la posición con la RTK, después mida con TPS
- El levantamiento es más fácil y rápido
- Para hacer cualquier tipo de trabajo
- Aumenta la productividad y los beneficios

### SmartPole

#### Cambio instantáneo entre GNSS y TPS

Cada sitio de trabajo es distinto. Unos sitios están más adaptados a TPS y otros a GNSS. Con SmartPole, tanto TPS como GNSS están disponibles simultáneamente. Cuando el GNSS está restringido por obstrucciones superiores utilice TPS; cuando no hay disponible visual de TPS, utilice GNSS. Ya no se necesita identificar puntos de control en la oficina ni realizar búsquedas para control en el campo.

SmartPole es totalmente compatible con el System 1200. La misma SmartAntenna GNSS de bajo peso puede utilizarse junto con un TPS1200+ como SmartStation, junto con un controlador RX1250 como una SmartRover o junto con el reflector único de 360° de bajo peso y el controlador RX1250 como SmartPole.

- Alta precisión y consistencia de control GNSS
- Ahorro de tiempo en la planificación y ejecución del levantamiento
- Máxima flexibilidad y productividad

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# Leica GPS1200

## Especificaciones técnicas y características del sistema



Receptores GPS1200	GX1230 GG/ATX1230 GG	GX1230	GX1220 (GG)	GX1210
Tecnología GNSS	SmartTrack+	SmartTrack	SmartTrack(+)	SmartTrack
Tipo	Doble frecuencia	Doble frecuencia	Doble frecuencia	Monofrecuencia
Canales	72 canales 14 L1 + 14 L2 GPS 2 SBAS 12 L1 + 12 L2 GLONASS	14 L1 + 14 L2 GPS 2 SBAS	14 L1 + 14 L2 GPS 2 SBAS 12 L1 + 12 L2 GLONASS → GX1220 GG (con opción DGPS)	14 L1 GPS 2 SBAS (con opción DGPS)
RTK	SmartCheck+	SmartCheck	No	No
Indicadores de estado	3 indicadores LED: para alimentación, seguimiento, memoria			

Receptores GPS1200	GX1230 GG/GX1230 GG/GX1220 GG/GX1220	GX1210	ATX1230 GG
Puertos	1 puerto de alimentación, 3 puertos seriales, 1 puerto de controlador, 1 puerto de antena	1 puerto alimentación/controlador, Puerto de tecnología inalámbrica Bluetooth®	
Tensión de alimentación	Nominal 12 VCC		Nominal 12 VCC
Consumo	receptor 4,6 W + controlador + antena		1,8 W
Entradas y PPS	Opcional: 1 puerto de salida PPS 2 puertos de entrada	Opcional: 1 puerto de salida PPS 2 puertos de entrada	
Antena estándar	SmartTrack+ AX1202 GG	SmartTrack AX1201	SmartTrack+ ATX1230 GG
Plano de tierra integrado	Plano de tierra integrado	Plano de tierra integrado	Plano de tierra integrado

Lo siguiente es aplicable a todos los receptores excepto en lo señalado.

<b>Fuente de alimentación</b>	Dos baterías Ion-Li 4,2 Ah/7,4 V en interior del receptor. Una Ion-Li 2,1 Ah/7,4 V insertada en ATX1230 GG y RX1250.
<b>Baterías Ion-Li insertables</b>	Alimentan receptor + controlador + antena SmartTrack durante 17 horas (para registro de datos).
Lo mismo para GNSS y TPS	Alimentan receptor + controlador + antena SmartTrack + radiomódem de baja potencia o teléfono durante 11 horas (para RTK/DGPS). Alimenta SmartAntenna + controlador RX1250 durante unas 6 horas (para RTK/DGPS)
<b>Alimentación externa</b>	Entrada de alimentación externa 10,5 V a 28 V.
<b>Pesos</b>	Receptor 1,20 kg. Controlador 0,48 kg (RX1210) y 0,75 kg (RX1250). Antena SmartTrack 0,44 kg. SmartAntenna 1,12 kg. Batería Ion-Li insertable 0,09 kg (1,9 Ah) y 0,19 kg (1,9 Ah). Bastón de fibra de carbono con antena SmartTrack y controlador RX1210: 1,80 kg. Todo en bastón: bastón de fibra de carbono con SmartAntenna, controlador RX1250 y baterías insertables: 2,84 kg.

<b>Temperatura</b>	Funcionamiento: Receptor -40°C hasta +65°C
ISO9022	Antenas -40°C hasta +70°C
MIL-STD-810F	Controladores -30°C hasta +65°C
	Controlador RX1250c -30°C hasta +50°C
	Almacenamiento: Receptor -40°C hasta +80°C
	Antenas -55°C hasta +85°C
	Controladores -40°C hasta +80°C
	Controlador RX1250c -40°C hasta +80°C
<b>Humedad</b>	Receptor, antenas y controladores hasta 100 % humedad.
ISO9022, MIL-STD-810F	
<b>Protección contra agua, polvo y arena</b>	Receptor, antenas y controladores: Resistente al agua a inmersión temporal de 1 m.
IP67, MIL-STD-810F	Hermético al polvo
<b>Choque/Caída contra superficie dura</b>	Receptor: resiste la caída de 1 m contra una superficie dura. Antenas: resiste la caída de 1 m sobre una superficie dura.
<b>Dejar caer bastón</b>	Receptor, antenas y controladores: resisten la caída si se viene abajo el bastón.
<b>Vibraciones</b>	Receptor, antenas y controladores: Aguantan vibraciones sobre grandes máquinas de construcción. Sin pérdidas de señal.
ISO9022	
MIL-STD-810F	

<b>SmartTrack+</b> <b>Tecnología GNSS avanzada de medición</b>	<p>El tiempo necesario para adquirir todos los satélites después del encendido: normalmente unos 50 seg. Readquisición de satélites tras pérdida de señal (p. ej. al atravesar un túnel): normalmente con 1 seg. Muy elevada sensibilidad: adquiere más del 99 % de las observaciones posibles sobre una elevación de 10 grados. Nivel de ruido muy bajo. Seguimiento resistente. Sigue señales débiles con muy poca elevación y en condiciones adversas. Mitigación del multipath. Resistente las interferencias. Precisión de medición: Fase portadora en L1: 0.2 mm emc. En L2: 0.2 mm emc. Código (pseudo distancia) en L1 y L2: 20 mm emc. Inicialización normalmente 8 segundos. Intervalo de actualización de posición seleccionable hasta 20 Hz. Latencia &lt; 0,03 s Alcance 30 km o más en condiciones favorables. Autocomprobación. Cinemático</p>	<b>Controladores</b> <b>RX1210/RX1250</b>	<p>Pantalla 1/4 VGA de alto contraste con opción de color (RX1250)  Pantalla táctil, 11 líneas x 32 caracteres. Windows CE 5.0 en RX1250.  Teclado QWERTY totalmente alfanumérico. Teclas de función y teclas definibles por el usuario. Iluminación para pantalla y teclas. También puede utilizarse con TPS1200+ para entrada alfanumérica y codificación extensa.</p>
	<p>Precisiones</p>	<p><b>Funcionamiento con controlador</b>  Lo mismo para GNSS y TPS</p> <p><b>Información mostrada</b>  Toda la información mostrada: estado, seguimiento, registro de datos, base de datos, RTK, DGPS, navegación, levantamiento, replanteo, calidad, cronómetro, alimentación, coordenadas geográfica, cartesianas, cuadrícula, etc.</p> <p><b>Pantalla gráfica de levantamiento</b>  Lo mismo para GNSS y TPS</p> <p><b>Pantalla replanteo</b>  Lo mismo para GNSS y TPS</p> <p><b>Funcionamiento sin controlador</b>  Sólo para GX1200</p> <p><b>Registro de datos</b>  Las mismas tarjetas se usan para GNSS y TPS</p> <p><b>Capacidad</b></p>	<p>Mediante teclado y/o a través de pantalla táctil. Concepto de funcionamiento gráfico. Teclas de función y teclas definibles por el usuario. Se muestra toda la información.</p> <p>Pantalla gráfica (plano) de levantamiento. Acercamientos. Puede accederse a puntos levantados directamente por la pantalla táctil.</p> <p>Gráfico con zoom. Digital, polar y ortométrico. Precisión: 10 mm + 1 ppm a 20 Hz (0,05 seg.) actualización. Sin degradación por intervalos altos de actualización.</p> <p>Encendido automático. Indicador de estado LED. Para estaciones de referencia y mediciones estáticas.</p> <p>En tarjetas CompactFlash: 64, 256 Mb y 1 Gb Memoria interna del receptor (opcional): 64 y 256 Mb.</p> <p>64 Mb suficiente para (30 % menos para GPS/GLONASS):  Aprox. 500 horas de registro de datos L1 + L2 a intervalos de 15 seg.  Aprox. 2 000 horas de registro de datos L1 + L2 a intervalos de 60 seg.  Aprox. 90 000 puntos RTK con códigos.</p> <p>Gestión de trabajo definible por el usuario. Identificadores de punto, coordenadas, códigos, atributos, etc. Rutinas de búsqueda, filtrado y visualización. Promedio multipuntos. Cinco tipos de sistemas de codificación que cubren todos los requisitos.</p>
<b>SmartCheck+</b> <b>Tecnología RTK avanzada de largo alcance</b>	<p>Formatos compatibles para la transmisión y la recepción: Leica propietario, CMR, CMR+, RTCM V2.1/2.2/2.3/3.0/3.1.</p>	<p><b>Sistemas de coordenadas</b>  Lo mismo para GNSS y TPS</p> <p><b>Programas de aplicación</b>  Lo mismo para GNSS que TPS</p> <p><b>Programable</b>  Lo mismo para GNSS y TPS</p> <p><b>Comunicación Enlaces de datos</b></p>	<p>Gráfico con zoom. Digital, polar y ortométrico. Precisión: 10 mm + 1 ppm a 20 Hz (0,05 seg.) actualización. Sin degradación por intervalos altos de actualización.</p> <p>Encendido automático. Indicador de estado LED. Para estaciones de referencia y mediciones estáticas.</p> <p>En tarjetas CompactFlash: 64, 256 Mb y 1 Gb Memoria interna del receptor (opcional): 64 y 256 Mb.</p> <p>64 Mb suficiente para (30 % menos para GPS/GLONASS):  Aprox. 500 horas de registro de datos L1 + L2 a intervalos de 15 seg.  Aprox. 2 000 horas de registro de datos L1 + L2 a intervalos de 60 seg.  Aprox. 90 000 puntos RTK con códigos.</p> <p>Gestión de trabajo definible por el usuario. Identificadores de punto, coordenadas, códigos, atributos, etc. Rutinas de búsqueda, filtrado y visualización. Promedio multipuntos. Cinco tipos de sistemas de codificación que cubren todos los requisitos.</p> <p>Elipsoides, proyecciones, modelos geoidales, coordenadas, transformaciones, parámetros de transformación, sistemas de coordenadas específicos del país.</p> <p>Estándar: todas las funciones de COGO. Punto oculto. Opcional: Avance, Línea de referencia, Replanteo MDT, Plano de referencia, División de área y Levantamiento de sección X, Exportación DXF y Cálculos de volumen</p> <p>Programable por el usuario en GeoC++.</p> <p>Los usuarios pueden escribir y cargar programas para sus propios requisitos y aplicaciones especiales.</p> <p>Se puede conectar uno o dos de los siguientes dispositivos: radiomódem, GSM, GPRS, CDMA. Se puede recibir o transmitir en diferentes frecuencias y/o formatos. Soporta Time slicing.</p>
<b>Redes de estaciones de referencia</b>	<p>Móvil RTK totalmente compatible con redes de estaciones de referencia de formatos de Leica Spider i-MAX &amp; MAX, VRS y Corrección de área (FKP).</p>		
<b>DGPS</b> GX1230 (GG), ATX1230 GG, GX1220 (GG) – estándar GX1210 – opcional	<p>DGPS, incluye soporte de WAAS y EGNOS. Los formatos RTCM V2.1/2.2/2.3/3.0/3.1. soportados para transmisión y recepción. Emc línea base: normalmente 25 cm emc con la estación de referencia adecuada.</p>		
<b>Intervalo actualización posición y latencia</b>	<p>Aplicable a RTK, DGPS y posiciones de navegación. Intervalo de actualización seleccionable desde 0,05 seg (20 Hz) hasta 1 seg. Latencia menor de 0,03 seg. NMEA 0183 V3.00 y Leica propietario.</p>		
<b>Salida NMEA</b>	<p>Horizontal: 10 mm + 1 ppm, cinemático  Vertical: 20 mm + 1 ppm, cinemático</p>		
<b>Post-proceso con el software</b>	<p>Horizontal: 5 mm + 0,5 ppm, estático  Vertical: 10 mm + 0,5 ppm, estático</p>		
<b>Leica Geo Office</b> <b>Todos los receptores GPS1200 de doble frecuencia</b>	<p>Para líneas largas con observaciones largas  Horizontal: 3 mm + 0,5 ppm, estático  Vertical: 6 mm + 0,5 ppm, estático</p>		
<b>Notas sobre funcionamiento y precisiones</b>	<p>Las figuras ofrecidas son para condiciones de normales a favorables. El funcionamiento y las precisiones pueden variar dependiendo del número de satélites, geometría de satélites, hora de observación, efemérides, ionosfera, multipath etc.</p>		

Tanto si se trata de realizar un levantamiento de una parcela de terreno o una obra, de una fachada o de interiores para crear planos as-built como de realizar mediciones de alta precisión en construcciones de puentes y túneles, los instrumentos topográficos de Leica Geosystems proporcionan la solución correcta para todas las tareas de medición.

Los instrumentos de la serie 1200, así como el software están diseñados para dar respuesta a los desafíos diarios de la topografía moderna. Todos ellos disponen de interfaces de calidad excepcional, fáciles de leer y cómodas de utilizar para el usuario. Estructuras de menú sencillas, su campo de funciones claramente delimitado y la alta tecnología hermanan perfectamente las aplicaciones GNSS y TPS en la obra. Tanto si usa las ventajas de ambas tecnologías combinadas o por separado, gracias a la excepcional flexibilidad de los instrumentos de Leica Geosystems, una topografía fiable y productiva está asegurada.

**When it has to be right.**

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**Total Quality Management** – nuestro compromiso para la satisfacción total de nuestros clientes.

Para más información acerca de nuestro programa TQM consulte a su agente de Leica Geosystems.

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Heerbrugg, Suiza  
[www.leica-geosystems.com](http://www.leica-geosystems.com)

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# INSTOP

A technological company



- Instop, S.L.U. es desde el año 1997 el proveedor de soluciones globales en el campo de la topografía para todos los profesionales de nuestro país
- [www.instop.es](http://www.instop.es) es el primer portal en la red y la mas completa pagina web dedicada al mundo de la topografía y la construcción
- Somos una empresa dinámica dedicada al servicio personalizado al cliente
- Instop es el distribuidor mas importante de Leica Geosystems en nuestro país.
- Somos la primera empresa del sector en alquiler de maquinaria para topografía.

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# EL NUEVO PATRÓN DE LAS ESTACIONES TOTALES LA SERIE GTS-220

TOPCON orgullosamente presenta la nueva Serie GTS-220 para suceder y innovar la más vendida Estación Total Serie GTS-210.

La Serie GTS-210, protegida contra agua ha revolucionado la industria de la topografía con sus beneficios y durabilidad.

Ahora, la nueva Serie GTS-220 ha mejorado sus funciones básicas para la medición de distancia y ángulo, además de mantener la extraordinaria durabilidad bajo malas condiciones climáticas.

La Serie GTS-220 dispone de una batería de larga duración (10 horas) y varios tipos de programas para facilitar y incrementar la productividad de los trabajos topográficos en el campo. Los beneficios incrementados, juntamente con la alta productividad, la Estación Total Serie GTS-220 define el nuevo concepto de equipo topográfico.

## BENEFICIOS

### Sistema avanzado para la medición de distancia y ángulo

La Serie GTS-220 tiene la capacidad de medir hasta 3.500 m con un solo prisma, el mayor alcance en su clase (GTS-229: 2.300 m), mientras mantiene la alta exactitud  $\pm(2\text{mm}+2\text{ppm}\times D)$  m.s.e. (GTS-229:  $\pm(3\text{mm}+3\text{ppm}\times D)$  m.s.e.).

En cuanto al tiempo de medición, los datos son actualizados a una velocidad de 1,2 segundos en el modo de medición fina (0,7 segundos para la medición gruesa

y 0,4 segundos para medición modo rastreo). Este corto tiempo de medición de distancia le permite eficacia y incremento de la productividad en el trabajo de campo.

### Notable memoria interna para almacenamiento de datos

La Serie GTS-220 dispone de memoria interna para almacenar hasta 8.000 puntos de Medición y 16.000 puntos de Coordenadas. La Serie GTS-220 acepta hasta 30 archivo de obras. La librería de códigos acepta 50 descripciones que podrán ser accedidos a través de sus números durante la colecta de datos.



### Sistema Punto Guía

El sistema Punto Guía es estándar para los modelos GTS-223, GTS-225 y GTS-226 (Opcional para el modelo GTS-229). Encuentre rápidamente la posición correcta a través de este beneficio. Dos luces, una titilante y otra constante le ayudan a encontrar la alineación correcta durante el replanteo.

### Plomada Láser

La plomada láser, localizada en la alidada del instrumento es estándar para la Serie GTS-220. Con la luz nítida sobre el suelo, es posible instalar el instrumento de manera rápida y sencilla. Se puede tener la plomada óptica con aumento de 3x. TOPCON es el único fabricante que le ofrece la opción Láser u Óptica.

### Compensador Doble Eje

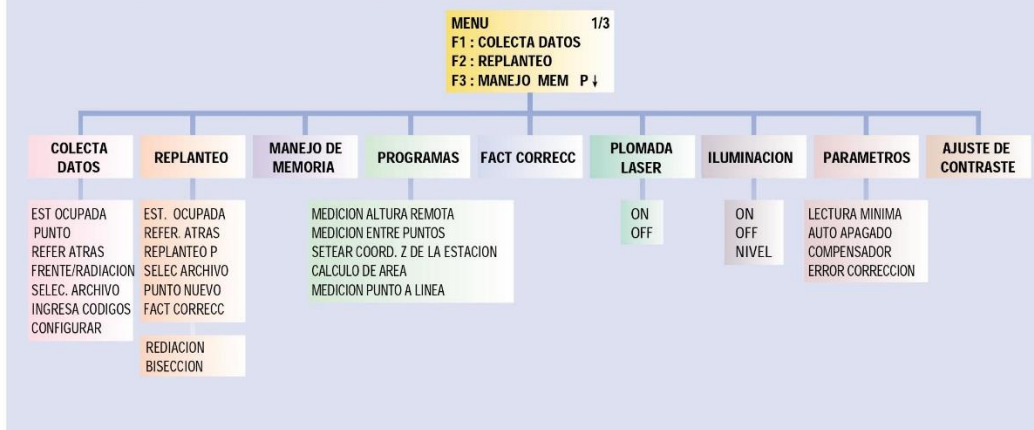
Compensador doble eje está disponible para los modelos GTS-223/225/226. El compensador hace la corrección de los ángulos horizontal y vertical cuando el instrumento se encuentra desnivelado.

### Compacta y Leve

La Serie GTS-220 es compacta y leve, solo 4.9 kg (incluyendo el aparato, batería y asa de transporte. Por ser compacto y leve es muy cómodo transportarla durante el trabajo de campo.



## DIAGRAMA DE LA ESTRUCTURA DEL MENÚ



### BISECCION

Las coordenadas de la Estación pueden ser calculadas a través de medición de los puntos conocidos (Max. 7) El fator de corrección de escala puede ser calculado, inclusive el cálculo de desviación estándar.

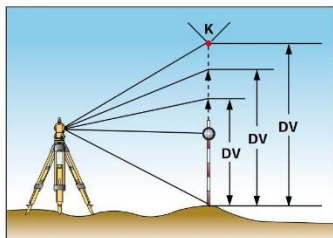
### RADIACIÓN

Con el instrumento instalado en un punto conocido, se puede medir los ángulos y distancia, además las coordenadas de los puntos radiados simultáneamente y guardarlas en el archivo de coordenadas.

## APLICACIONES ESPECIALES

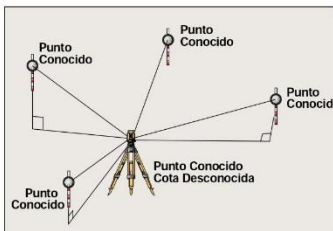
### MEDICIÓN ALTURA REMOTA

Esta medición calcula la altura de un punto donde no se puede poner el prisma. Las mediciones pueden ser realizadas a lo largo de la proyección vertical y las alturas serán mostradas en tiempo real.



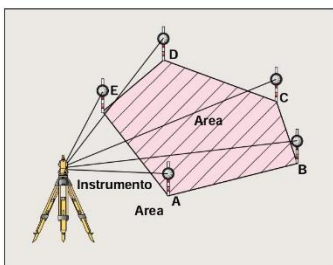
### SETEAR COORDENADA Z TRANSPORTE DE COTA A ESTACIÓN

La coordenada Z y el ángulo de referencia atrás pueden ser calculados a través de medición de los puntos conocidos. (Máximo 10 puntos)



### CÁLCULO DE AREA

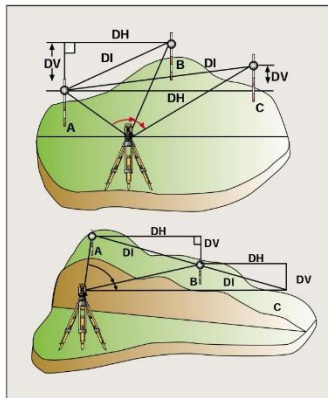
Calculo de area durante la colecta de datos o a través de los puntos almacenados.



### MEDICIÓN ENTRE PUNTOS

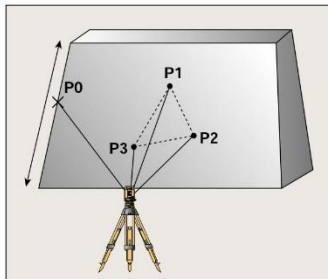
Lineas múltiples pueden medirse entre:

1. Primero y último punto
  2. Los últimos dos puntos
- La distancia horizontal, el desnivel y la distancia inclinada pueden ser calculadas. Para este cálculo, se puede utilizar los datos de coordenadas o ingreso manual.



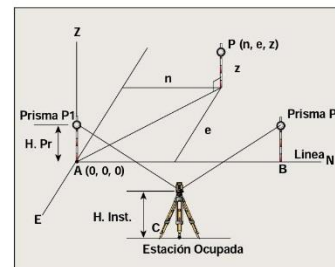
### PUNTO DESPLAZADO DE PARED

Las coordenadas de un punto, donde no se puede medir directamente con el prisma, por ejemplo, puntos en una pared o superficie, pueden ser calculados con esta aplicación. Los puntos (P1, P2, P3) sobre la pared serán medidos para definir la superficie. Los ángulos y distancias serán guardadas temporalmente. Después, realizando solamente las mediciones angulares, el instrumento le muestra las coordenadas y la distancia de los puntos observados.



### MEDICIÓN PUNTO A LINEA

Sistema de coordenadas respecto a una línea de referencia. El 1er. punto será el origen y el 2do. punto será la dirección Norte



## COMPOSICIÓN ESTÁNDAR



- ☐ Serie GTS-220 .....1 unidad
- ☐ Batería BT-52QA.....1 unidad
- ☐ Cargador Batería BC-27BR (120V) o BC-27CR (230V) .....1 juego
- ☐ Juego de herramientas.....1 juego
- ☐ Estuche de transporte.....1 unidad
- ☐ Paño con silicona.....1 unidad
- ☐ Funda de plástico para lluvia....1 unidad
- ☐ Plomada.....1 unidad
- ☐ Tapa de lente.....1 unidad
- ☐ Manual de instrucciones.....1 unidad

## ACCESORIOS OPCIONALES

Brújula Declinatoria-6



Ocular Diagonal-10



Filtro Solar-6



Retículo Solar-6



Teclado Externo DK-7

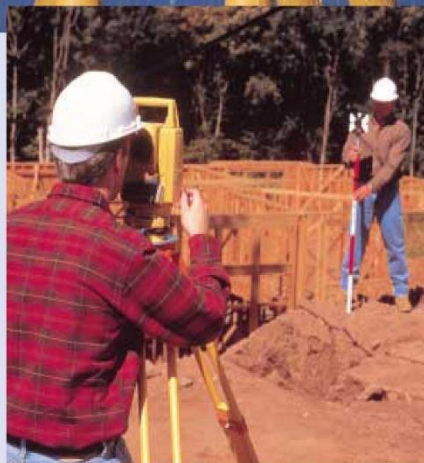
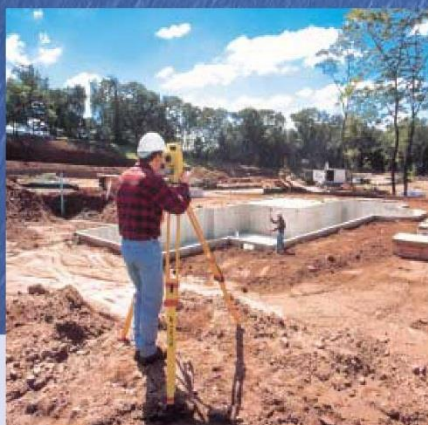




## EL GRADO DE PROTECCIÓN MÁS ALTO CONTRA CONDICIONES CLIMÁTICAS - IMPERMEABILIDAD IPX6

La Serie GTS-220 puede estar bajo cualquier ambiente húmedo, le ofreciendo el gran beneficio de no perder tiempo debido a las inclemencias climatológicas. La impermeabilidad, clasificación IPX6 de la Serie GTS-220, asegura una actuación durable en el campo, bajo todas las condiciones climáticas. Con la Serie GTS-220, el mal tiempo no será el motivo de pérdida de la productividad.

El grado de protección contra agua (IPX6) de las Estaciones Totales TOPCON Serie GTS-220, está basado en la Norma Internacional IEC529, definido como: "Chorros fuertes de agua desde cualquier dirección y en toda la superficie del equipo, no causa efectos dañosos".



### Batería de larga duración (10 horas)

La nueva batería a bordo TOPCON BT-52QA Ni-MH tiene la duración de 10 horas de medición continua de ángulos y distancias y 45 horas de medición angular. Esta batería de larga duración, elimina la exigencia de tener varias baterías en el campo. Una sola BT-52QA será suficiente para trabajar el día entero.



# ESPECIFICACIONES

					GTS-223	GTS-225	GTS-226	GTS-229			
TELESCOPIO					Exactitud*	3"	5"	6"	9"		
Longitud	150 mm					(1mgon)	(1.5mgon)	(1.8mgon)	(2.7mgon)		
Diámetro del Objetivo	45 mm (EDM: 50 mm)				Tiempo de Medición	menos de 0,3 seg.					
Aumentos	30×				Diámetro del Círculo	71 mm					
Imagen	Directa				COMPENSADOR						
Campo de Visión	1° 30'				Sensor de Inclinación	Doble eje			Simple		
Potencia de Resolución	2,5"				Método	Tipo líquido					
Distancia Mínima de Enfoque	1,3 m				Intervalo de Compensación	±3'					
MEDICIÓN DE DISTANCIA					Unidad de Corrección	1" (0,1 mgon)					
Condición 1	3.000 m 4.000 m 5.000 m			2.000 m 2.700 m 3.400 m	OTROS						
1 prisma					Altura del Instrumento					176 mm	
3 prismas					SENSIBILIDAD DEL NIVEL						
9 prismas					Nivel Circular					10"/2 mm	
Condición 2	3.500 m 4.700 m 5.800 m			2.300 m 3.100 m 4.000 m	Nivel Alidada	30"/2 mm		40"/2 mm			
1 prisma					PLOMADA LÁSER: ESTÁNDAR						
3 prismas					PLOMADA ÓPTICA (OPCIONAL)						
9 prismas					Aumentos					3x	
Condición 1: Niebla ligera con visibilidad de aprox. 20 km, luz solar moderada y ligera reverberación.  2: Sin niebla con visibilidad de aproximadamente 40 km, nublado y sin reverberación					Intervalo de Enfoque	0,5 m hasta infinito					
					Imagen	Directa					
					Campo de Visión (a 1,3 m)	5° (114 mmo)					
					DIMENSIÓN						
Exactitud	±(2mm+2ppmxD)m.s.e			±(3mm+3ppm·D)m.s.e			336(Al)×184(An)×150(L)mm [13.2(Al)×7.2(An)×5.9(L)in.]				
D: Distancia medida (mm)											
Cómputo Mínimo	1 mm / 0,2 mm 10 mm / 1 mm 10 mm				Peso						
Modo fino					Instrumento (con la batería)				4,9 kg		
Modo grueso					Estuche de Plástico				3,2 kg		
Modo rastreo											
Pantalla de Medición	11 dígitos: visualización máxima =9999999,9999				Protección contra Agua	IPX6 (con BT-52QA)					
Tiempo de Medición	1 mm: 1,2 seg. (inicial 4 seg.) 0,2 mm: 2,8 seg. (inicial 5 seg.)  0,7 seg. (inicial 3 seg.) 0,4 seg. (inicial 3 seg.)  ( El tiempo inicial será diferente para cada condición y de la configuración del tiempo apagado del EDM)				Temperatura de Operación	-20°C hasta +50°C					
Modo fino					BATERÍA BT-52QA						
Modo grueso  Modo rastreo					Voltaje de Salida					7,2 V	
					Capacidad					2,7AH (Ni-MH)	
					Tiempo máximo de operación					10 horas (12.000 puntos)	
					Medición angular y distancia					45 horas	
Corrección Atmosférica	-999,9 hasta +999,9 ppm (incremento de 0,1 ppm)				Solo medición angular	45 horas					
Corrección Constante Prisma	-99,9 hasta +99,9 mm (incremento de 0,1 mm)				Peso	0,3 kg					
MEDICIÓN ANGULAR					CARGADOR DE BATERÍA BC-27BR/27CR						
Método	Lectura absoluta				Voltaje de Entrada	AC 120V (BC-27BR)		AC 230V (BC-27CR)			
Sistema de Detección	H: 2 lados	V: 1 lado	H: 1 lado	V: 1 lado	Frecuencia	50/60Hz					
Lectura Mínima	1" / 5"			5" / 10"	Tiempo de Recarga (a 20°C)	1,8 horas					
(0,2mgon/1mgon)				(1mgon/2mgon)	Temperatura de Operación	+10°C hasta +40°C					
					Peso	0,5 kg					

\* Desviación estándar basada en la Norma DIN18723

• Diseños y especificaciones están sujetos a cambios sin previo aviso.

**Importante** Para obtener mejores resultados de este instrumento, por favor revise el manual de instrucciones antes de operarlo.



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ESTACIÓN TOTAL ELECTRÓNICA

serie **GTS-220** *New*





ESTACIONES TOTALES SERIE DTM-501

Especificaciones

		DTM-551	DTM-531	DTM-521
Telescopio	Longitud	158mm/6.22 in.		
	Imagen	Erect		
Medición de Distancia	Diámetro Eficaz del objetivo	45mm/1.77 in. (EDM: 50mm/1.97 in.)		
	Aumentos	33x (21x/41x con oculares opcionales)		
	Field of view	1'20" (2.3m at 100m/2.3 ft. at 100 ft.)		
	Poder de Resolución	2.5"		
	Distancia mínima de Enfoque	1.3m/4.26 ft.		
Lectura máxima de pantalla	Iluminación del Reticulo	Incorporado (3 niveles)		
		(sin niebla, con visibilidad hasta 40km/25 miles)		
Precisión	Bajo buenas condiciones	5 to 100m/16.4 to 328.1 ft.		
	Con Peg. Reflectora	1,100m/3,600 ft.		
Lectura Mínima	Con Mini Prisma	2,700m/8,900 ft.		
	Con Prisma Simple	3,600m/11,800 ft.		
Tiempo de Medición	Con Prisma Triple	4,400m/14,400 ft.		
	Con Nueve prismas	(Niebla ordinaria con visibilidad hasta 20km/12.5 miles)		
Rango de Temperatura de Trabajo	Bajo condiciones normales	5 to 100m/16.4 to 328.1 ft.		
	Con Peg. Reflectora	950m/3,100 ft.		
Corrección Atmosférica	Con Mini Prisma	2,400m/7,900 ft.		
	Con Prisma Simple	3,100m/10,200 ft.		
Medición Angular	Con Prisma Triple	3,700m/12,100 ft.		
	Con Nueve Prismas	9999.999m/29999.999 ft.		
Compensado de doble Eje	Modo MSR	±2 + 2ppm x Dmm		
	Modo TRK	±4 + 2ppm x Dmm		
Lumi-Guide	Modo MSR	0.1mm/1mm, 0.001 ft./0.002 ft. seleccionable		
	Modo TRK	1mm/10mm, 0.002 ft./0.02 ft. seleccionable		
Niveles	Modo MSR	1/6 seg. (1.0 seg. la primera medición)		
	Modo TRK	0.5 seg. (1.0 seg. la primera medición)		
Plomada Óptica	Rango de Temperatura	-20°C a 50°C/-4°F a 122°F		
	Rango de Presión	-40°C a 60°C/-40°F a 140°F		
Pantalla	Constante de Prisma	400 a 9999hg/533 a 1332hpa/15.8 a 39.3 in.hg		
	Sistema de Lectura	-999 a 999		
Memoria Interna	Diámetro de Limbos	Detección fotoeléctrica mediante codificador incremental (detección diametral en los limbos H/V)		
	Lectura Mínima	79mm		
Batería Ni-MH de asa BC-80	(Sexagesimal)	0.5"/1"	1"/5"	
	(Centesimal)	0.1mgon/0.2mgon	0.2mgon/1mgon	
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	(MIL/6400)	0.002mil/0.005mil	0.005mil/0.02mil	
	Precisión (horizontal y vertical)	1"/0.3mgon	2"/0.5mgon	3"/1mgon
Cargador Rápido Q-70C (12V-DC, cargador para encendedor de automóvil)	Compensación	Detección Eléctrica por Líquido		
	Compensación	±3"		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Rango de Trabajo	±1"		
	Precisión de Posicionamiento Dentro aprox. 6cm/2.4 in. a 100m/330 ft.	100m/330 ft.		
Cargador Rápido Q-70C (12V-DC, cargador para encendedor de automóvil)	Sensibilidad nivel de alada	20"/2mm	30"/2mm	
	Sensibilidad de nivel circular	10"/2mm		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Imagen	Erect		
	Aumentos	3x		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Campo de Visión	5°		
	Rango de Enfoque	0.5m/1.6 ft. a ∞		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Tipo	Matricial de puntos, en cristal líquido (16 caracteres x 4 líneas) ambas caras		
	Datos de Campo/coordenadas	8,000 puntos		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Dimensiones (W x D x H) (aprox.)	166 x 156 x 365mm/6.5 x 6.1 x 14.4 in.		
	Peso (aprox.)	4.9kg/10.8 lbs.		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Unidad Principal (sin batería)	0.6kg/1.3 lbs.		
	Batería BC-80	4.0kg/8.8 lbs.		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Caja de Transporte	7.2V DC		
	Voltaje de salida	Aprox. 10.5 horas (midiendo continuamente distancias y ángulos)		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Duración	Aprox. 24 horas (midiendo distancias y ángulos cada 30 segundos)		
		Aprox. 30 horas (midiendo ángulos)		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Tempo de Recarga	Aprox. 2.0 horas para carga completa		
	Tempo de Descarga	Aprox. 7.5 horas		
Cargador Rápido Q-75U/E (Q-75U para 115V, Q-75E para 220/240V)	Tempo de Recarga	Aprox. 2.0 horas (para una descarga completa BC-80 requiere más de una carga)		

\*0.1mgon/0.2mgon disponible bajo pedido

La exportación de estos productos (Serie DTM-501 y Cargadores Q-75U/E) está controlada por las Leyes de Intercambio Exterior Japonés y por las Leyes de Régimen de Control de Exportación Internacional. No serán exportadas sin la autorización de las autoridades gubernamentales competentes. Las especificaciones y equipamientos pueden cambiar, sin previo aviso ni obligación posterior por parte del fabricante. Junio 2001 ©2001 NIKON GEOTECS CO., LTD.

NIKON GEOTECS CO., LTD.

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Nikon on the Net <http://www.nikon.co.jp/survey-e/>

NIKON EUROPE B.V.

Schiphoutweg 321, 1171 PL Badhoevedorp, The Netherlands  
Phone: +31-20-4496222 Telefax: +31-20-4496298  
Email: [surveying@nikonbv.nl](mailto:surveying@nikonbv.nl)

NIKON INSTRUMENT INC.

Surveying Dept.  
1300 Walt Whitman Road, Melville, NY 11747-3064, U.S.A.  
Phone: +1-631-547-4200 Telefax: +1-631-547-8669



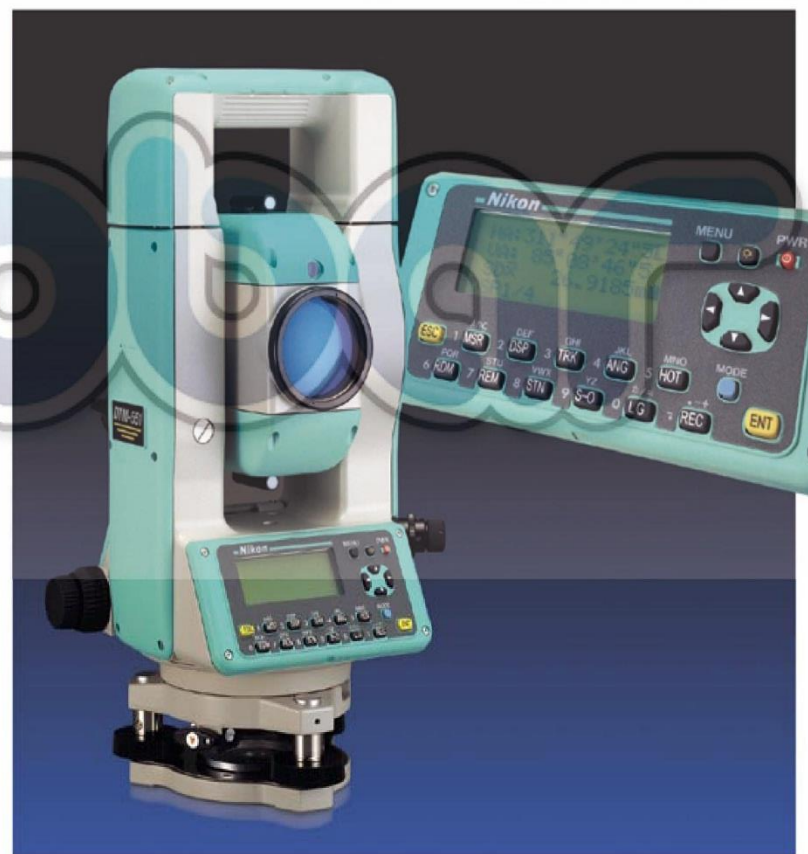
Printed in the Netherlands Code No. B26CS012



Nikon

# ESTACION TOTAL SERIE DTM-501

## DTM-551/531/521





**Ninguna supera a la serie DTM-501 de Nikon — la más rápida midiendo.**

**C**on el lanzamiento de la nueva serie DTM-501, Nikon ha mejorado sustancialmente con respecto a sus predecesoras, la serie DTM-500. Realizando un distanciómetro muy rápido e incorporando nuevas aplicaciones en el software, estas estaciones totales consiguen alcanzar precisión, velocidad y sencillez de manejo en un instrumento de calidad Nikon diseñado para trabajar en los entornos más duros.

**Desde el amanecer hasta el anochecer con una sola batería.**

#### Características principales

- Gran rapidez en la primera medida: solo 1 seg. En mediciones posteriores 0.5 seg. en modo TRK y 1 seg. en modo MSR.
- Alta precisión en distancias  $\pm(2 + 2\text{ppm} \times \text{D})\text{mm}$  en modo MSR y  $\pm(4 + 2\text{ppm} \times \text{D})\text{mm}$  en modo TRK.
- Gran resolución en distancias: 0.1mm en modo MSR (1mm en modo TRK)
- Eje Horizontal de acero con terminación Nitrada, sin holguras, gracias a un sistema de doble pista de cojinetes diseñado para una gran estabilidad angular llegando a precisiones de 1" DIN con lectura de 0.5" (DTM-551)
- Peso de 5.5kg/12.1 lbs., incluyendo la batería.
- Gran duración de la batería. 10.5 hrs. midiendo continuamente distancias/ángulos, o 24 hrs. con una medición de distancia cada 30 seg.

- Diseño ergonómico del teclado con introducción numérica directa y teclas con funciones únicas para usar en campo.
- Métodos rápidos y sencillos para la introducción de códigos alfa-numéricos.
- Compactas y prácticas pantallas con la información necesaria.
- 100% software resume function
- Índice de protección al agua IPX4
- Función "Lumi-Guide" con información de distancia a Derecha/Izquierda y Dentro/Fuera
- Compacto y gran calidad en el telescopio, incorporando un novedoso, poderoso y estable EDM.
- Poderosas y prácticas aplicaciones topográficas en el software interno

#### Batería de larga duración

Una sola batería de asa modelo BC-80 permite 10.5 horas, aproximadamente, de trabajo continuo midiendo ángulos y distancias, o 24 horas realizando una medición cada 30 seg. lo cual significa un día entero de trabajo sin tener que cambiar la batería. Además, el diseño de bajo consumo que tiene la serie DTM-501, minimiza el efecto memoria en la batería.

#### Telescopio compacto y estable de nuevo diseño.

El exclusivo sistema óptico de Nikon ha sido altamente mejorado con el fin de obtener visuales más claras en cualquier situación, por ejemplo, en las muy oblicuas o con escasa luminosidad. El nuevo telescopio emplea un mecanismo de enfoque lineal que mejora la operatividad del enfoque a cortas y largas distancias. El mando del enfoque ha sido nuevamente diseñado con el fin de mejorar las características ergonómicas y funcionales.

#### Nuevo Color de Alta Visibilidad (CAV) en tonos verdes

Para incrementar la seguridad e identificación del instrumento en la zona de trabajo, el nuevo color verde (CAV) fue elegido para las series DTM-501.

#### Medición angular Precisa y Estable

La serie DTM-501 lleva un Eje Horizontal de acero con terminación Nitrada, sin holguras, gracias a un sistema de doble pista de cojinetes diseñado para una gran estabilidad. Este sistema es el mismo que utiliza la serie DTM-800, permitiendo una mayor estabilidad y precisión en la medida angular, bajo cualquier circunstancia.

#### Mayor rapidez y precisión en la medición de distancias

La miniaturización de los componentes electrónicos en la DTM-501 redunda en un distanciómetro más ligero y compacto, con una velocidad en la medida inicial de 1.0 seg. Precisiones de  $\pm(2 + 2\text{ppm} \times \text{D})\text{mm}$  en modo MSR y  $\pm(4 + 2\text{ppm} \times \text{D})\text{mm}$  en modo TRK son asegurados pudiéndose mostrar resoluciones de 0.1mm o 1mm. Un nuevo software para corregir múltiple-reflexión, permite que las medidas realizadas a pegatinas reflectoras, sean tan rápidas y precisas como las realizadas a un prisma simple.

#### Pantalla más amplia y teclado ergonómico

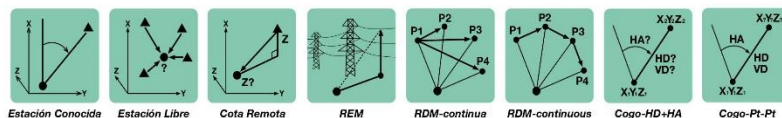
El teclado está ergonómico y lógicamente diseñado para un sencillo y eficaz manejo de los trabajos en campo. Los materiales con los que se ha elaborado el teclado han sido estrictamente revisados y seleccionados para que resistan condiciones extremas. Las teclas de Navegación, Menú, Modo y HOT, permiten un acceso inmediato a la edición de trabajos, variables ajustables, visualización y edición de puntos y acceso a la introducción rápida de códigos o a códigos previamente definidos. El teclado numérico completo se hace imprescindible para la introducción de ángulos y alturas de prismas.

#### Compacta y ligera, con índice de protección al agua IPX4

Gracias a las nuevas tecnologías ha sido posible realizar un distanciómetro y una batería de larga duración mucho más ligeros. La DTM-501 tan solo pesa 5.5 Kg/12.1 lbs con la batería incluida y posee un índice de Protección al Agua nivel 4 (IPX4) cuya especificación es la de proteger al instrumento frente a agua dispersa sobre la carcasa procedente desde cualquier dirección.

ESTACION TOTAL SERIE DTM-501





Estación Conocida

Estación Libre

Cota Remota

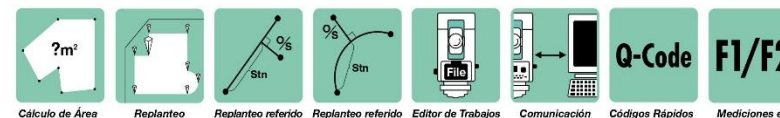
REM

RDM-continuo

RDM-continuo

Cogo-HD+HA

Cogo-PT-PT



Cálculo de Área

Replanteo

Replanteo referido a una línea dada por 2 puntos

Replanteo referido a un Arco

Editor de Trabajos

Comunicación

Códigos Rápidos

Mediciones en F1/F2



### Sencillez de manejo

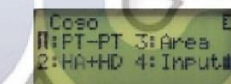
Operaciones esenciales tales como Estacionar (STN), Medir (MSR/TRK) cambios de Pantallas (DSP) y Replanteos (S-O) pueden ser realizadas rápida y sencillamente gracias a que cada tecla lleva impresa el nombre de la función.

### Grabación de datos.

Los datos grabados pueden ser almacenados hasta en ocho trabajos. Los datos de estos trabajos pueden ser fácilmente chequeados, editados, borra

### Funciones de Cálculo. COGO

La serie DTM-501 posee funciones básicas de cálculos geométricos, incluyendo áreas y perímetros.



### Promedio de medidas F1/F2

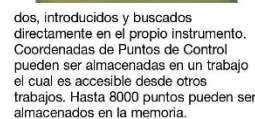
Medidas en F1/F2 pueden ser realizadas para mejorar la precisión.

### Estación Libre

Las coordenadas XYZ y la orientación son calculadas por el método de "Mínimos Cuadrados" después de medir a un mínimo de 2 puntos y hasta un máximo de 10 puntos conocidos. Las mediciones pueden consistir en medidas promediadas con F1/F2, medidas angulares o medidas completas de ángulos y distancias. Cualquier punto medido puede ser seleccionado como visual de orientación.

### Cambio rápido de parámetros.

Algunas configuraciones son cambiadas frecuentemente en campo. Con las teclas HOT y MSR/TRK estos cambios se pueden realizar rápidamente sin tener que suspender el trabajo en curso.



dos, introducidos y buscados directamente en el propio instrumento. Coordenadas de Puntos de Control pueden ser almacenadas en un trabajo el cual es accesible desde otros trabajos. Hasta 8000 puntos pueden ser almacenados en la memoria.

**Sencilla Introducción de Códigos**  
La serie DTM-501 tiene la posibilidad de introducir códigos mediante varios procedimientos, lo cual aumenta la eficacia cuando se están tomando datos en campo. Además de la introducción

### Pantallas Intercambiables y Configurables

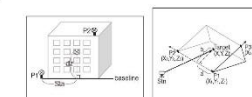
Simplemente presionando la tecla DSP, se puede cambiar de pantalla para visualizar los diferentes datos de una medición. Como se puede pasar de una pantalla a otra antes, durante y después de la medición, no es necesario seleccionar la pantalla con los datos que se quieren obtener para conseguirlos. Algunas pantallas de medición y replanteo pueden ser configuradas personalmente por el usuario.

### Replanteo

Se puede realizar especificando el nombre del punto, el código del punto, radio desde el instrumento o tecleando manualmente las coordenadas o el ángulo y distancia.

### Gran posibilidad de medidas.

- Referido a una línea definida por 2 puntos.
- Referido a un plano vertical dado por 2 puntos.
- Referido a un plano definido por 3 puntos.
- Referido a un arco
- Arc reference line



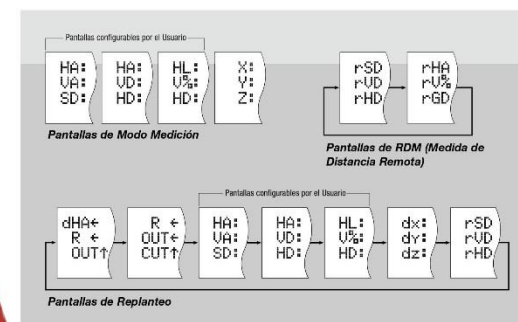
Plano Vertical definido por 2 puntos.

Plano Inclinado definido por 3 puntos.

Estas aplicaciones permiten medidas directas a líneas y superficies tales como carreteras, vallas, paredes de edificios o superficies industriales y pueden ser usadas para taquimetría o replanteo. Los puntos que definen líneas o superficies, pueden ser cargados anteriormente o medidos en el campo. Las medidas resultantes pueden ser almacenadas como datos de campo y notas, mostrando la distancia y el desplazamiento.

### Indicadores claros del sistema

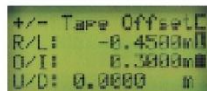
Una barra vertical permite mostrar claramente la intensidad de señal EDM, modo de introducción de codificación y estado de batería.





**Excéntricas**

Desplazamientos de distancias o ángulos pueden ser introducidos de una manera dinámica para calcular excéntricas.

**Carga y Descarga de Datos**

Los datos pueden ser descargados y cargados al PC utilizando softwares estándar de comunicación. Listas de códigos creados por el usuario también pueden ser cargadas. La estación



incorpora varios formatos para ambas operaciones, con lo que el establecimiento de la comunicación se puede realizar en pocos pasos.

También se puede disponer del software TransIt el cual permite comunicación y transformación de formatos.

**Carga de formatos definibles por el Usuario.**

El operador puede definir el orden de los distintos campos del fichero que quiere cargar.

**Pantallas en Pies/Pulgadas**

Introducción numérica y posibilidad de mostrar los datos en Pies y Pulgadas son permitidas.

**Software TransIt™ opcional para Transferencia y Conversión de datos**

TransIt™ es un software basado en Microsoft Windows® el cual es utilizado por Estaciones Totales Nikon, otras estaciones totales y terceros Softwares. El programa soporta carga y descarga de datos entre el PC y Estaciones Totales Nikon y Estaciones Totales, ver - editar datos, recálculo de coordenadas y correcciones para todas las unidades.



Serie DTM-800, Serie DTM-700, AP-800/700 Database, Nikon Raw, Coordenadas ASCII (Delimitados por coma /espacios; 2D & 3D), Series DTM-500, Series DTM-400, DTM-310, Series DTM-300 y DR-48

**Formatos de Exportación Soportados:**

Serie DTM-800, Seire DTM-700, AP-800/700 Database, Nikon Raw, Coordenadas ASCII (Delimitados por coma/espacios; 2D & 3D), DXF y SDR-2x

**Lumi-Guide**

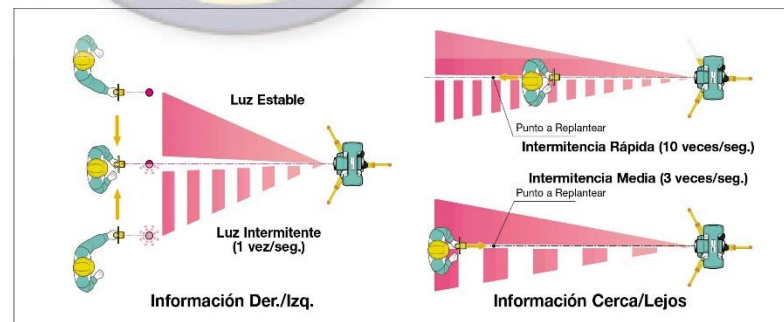
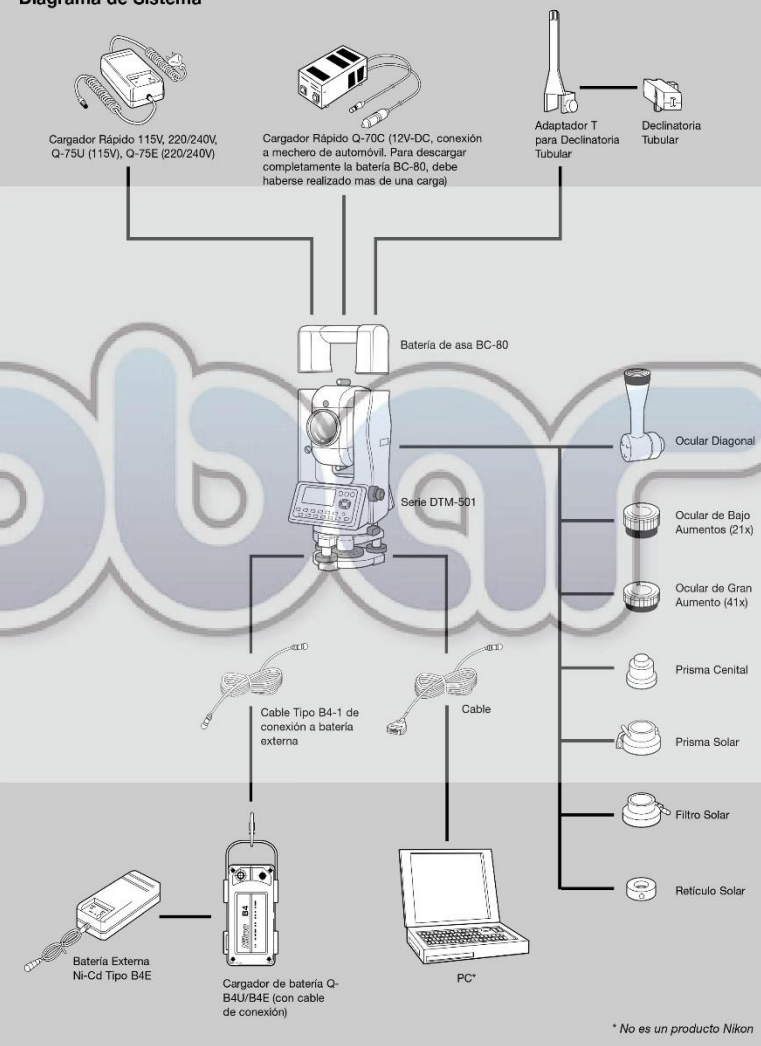
Todos los modelos de la serie DTM-501 van dotados de una luz roja de seguimiento, situada sobre la lente objetivo del telescopio. El Lumi Guide emite dos haces coherentes de luz roja, uno constante y otro intermitente, permitiendo al portaprisma situarse rápidamente sobre la línea y encontrar así la posición donde las dos son visibles.

Durante el replanteo la frecuencia de intermitencia varía para indicar al portaprisma si debe "alejarse" o "acercarse" para encontrar el punto a replantear.

Además de la ayuda al replanteo, el portaprisma puede usar esta señal como referencia a la hora definir líneas o en trabajos nocturnos.



Lumi-Guide aumenta la productividad en campo.

**Diagrama de Sistema**

\* No es un producto Nikon

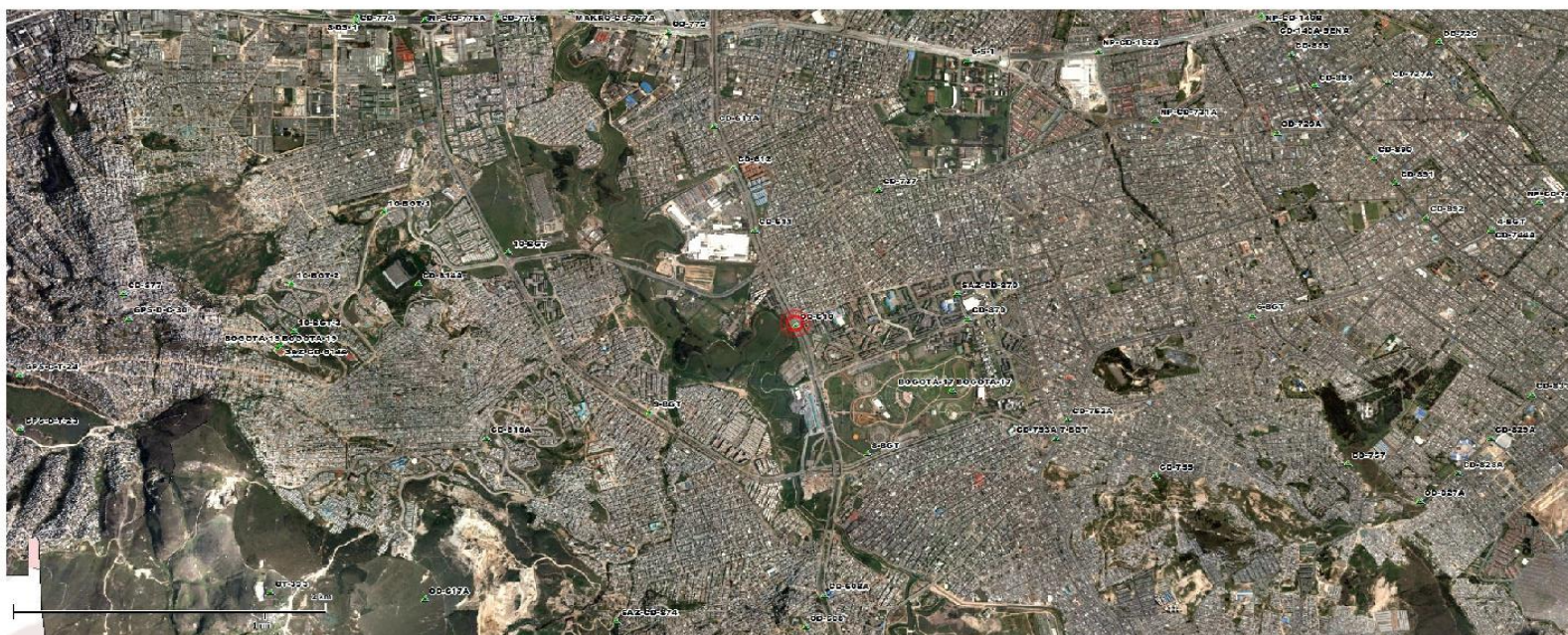
## ANEXO 5

# CERTIFICACIONES INSTITUTO GEOGRÁFICO AGUSTÍN CODAZZI (IGAC)





## Puntos Consultados





## Puntos Consultados

Las coordenadas en el sistema de referencia MAGNA-SIRGAS (ITRF94, época 1995.4, elipsoide GRS-80) de los puntos consultados son:

### Punto:CD-610

Departamento: BOGOTÁ, D.C. Municipio: BOGOTÁ, D.C.

#### ELIPSOIDALES

Latitud: 4° 34' 35.10692" N

Longitud: 74° 8' 26.17040" W

Altura Elipsoidal: 2581.586 m

Altura(snm): 2557.873 m (GEOMÉTRICA) Cálculo realizado en el año 1999

#### GEOCÉNTRICAS CARTESIANAS Y SUS VELOCIDADES

X= 1738185.252 M Vx= 0.001 m/año

Y= -6118399.557 M Vy= 0.001 m/año

Z= 505713.031 M Vz= 0.013 m/año

Cálculo realizado en el año 2001

Norte = 97808.376



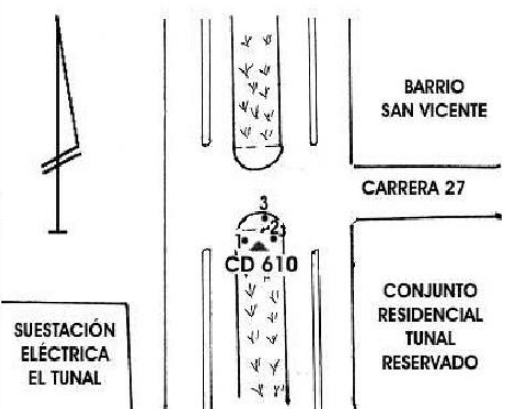
Este = 92999.701

Generado en línea el 09/05/2017 hora 03:48 con fundamento en los datos disponibles en la base de datos del sistema GEOCARTO de la Subdirección de Geografía y Cartografía. El uso que se haga de esta información no es responsabilidad del IGAC. Cualquier información adicional puede solicitarse al correo electrónico [geodesia@igac.gov.co](mailto:geodesia@igac.gov.co).

La conversión a coordenadas planas puede realizarse mediante el aplicativo MAGNA-SIRGAS PRO V.3, disponible en <http://www.igac.gov.co:10040/wps/themes/html/archivosPortal/Magnapro3.zip>

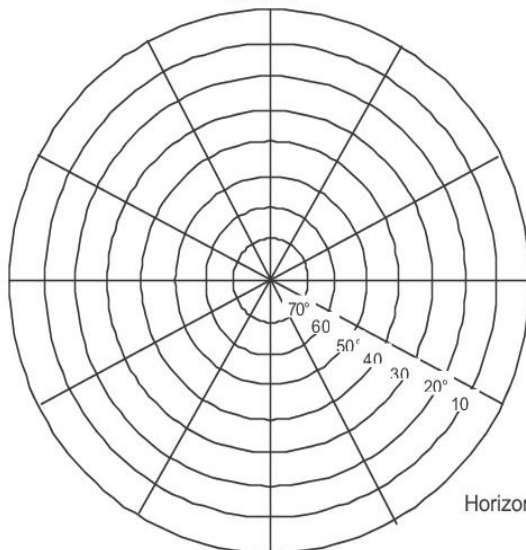




 DEPARTAMENTO ADMINISTRATIVO NACIONAL GEOGRÁFICO AGUSTÍN CODAZZI		DESCRIPCIÓN DE PUNTO MATERIALIZADO DE CONTROL HORIZONTAL		FECHA (DD/MM/AAAA) 29/10/1998		
DIVISIÓN DE GEODESIA						
Departamento CUNDINAMARCA	Municipio BOGOTÁ, D.C.	Vereda o barrio El Tunal	Finca o dirección Avenida Boyacá x Carrera 27 Sur			
Nomenclatura estandarizada <b>C D 610</b>		Nombre del punto (Estampado en placa) <b>C D 610</b>		<b>CROQUIS GENERAL</b> 		
Distancias y direcciones a la señal de Azimut y objetos sobresalientes que pueden observarse desde el vértice						
OBJETO	AZIMUT MAGNÉTICO	DISTANCIA EN METROS	DIRECCIONES			
1 Torre alta tensión	265	2.1				
2 Torre alta tensión	90	2.3				
3 Semáforo	3	12				
4 Extremo norte separador	25	18				
5 CD 611	330	719.573				
<b>Acceso (Croquis general)</b> Para acceder al vértice se toma la Avenida Carrera 30 en dirección al sur hasta llegar a la Autopista Sur, la cual se toma hacia el occidente hasta alcanzar la Avenida Boyacá. Desde esta intersección, se continúa en dirección al sur por ésta última Avenida recorriendo unos 2.26 km hasta la intersección con la Carrera 27, en donde se encuentra el punto.						
<b>Descripción (Croquis detallado)</b> El vértice se encuentra en el separador central de la Avenida Boyacá, al costado sur de la intersección con la Carrera 27, y en medio de dos torres de alta tensión al extremo norte de la zona verde presente en el separador en cuestión.  La marca central es un disco de bronce estándar del Instituto Geográfico "Agustín Codazzi" enclavado en un mojón de concreto, el cual consta de una placa subterránea. El estampado exacto en dicho disco es: C D 610 DACD AÑO 86-96.				<b>CROQUIS DETALLADO</b> 		
<b>Determinación</b> GPS <input checked="" type="checkbox"/> CONVENCIONAL <input type="checkbox"/>		<b>Monumentación</b> Incrustación <input type="checkbox"/> Mojón <input checked="" type="checkbox"/> Pilastra <input type="checkbox"/> De concreto 25 x 25 cm. de lado Otro <input type="checkbox"/> Sobresale cms.				
<b>Nota:</b> En la fecha _____ se encontró el vértice destruido _____ movido _____		<b>Coordenadas MAGNA-SIRGAS (WGS84)</b> aproximadas: $\phi = 04^{\circ}34'35''N$ $\lambda = 74^{\circ}08'26''W$ $h = 2582 \text{ m.}$				
Nombre _____ Firma _____		Describió <b>GONZALO ALONSO C.</b>				
				Materializó <input type="checkbox"/> Actualizó <input checked="" type="checkbox"/>		

*Diagrama de Obstáculos*

NORTE



Horizonte

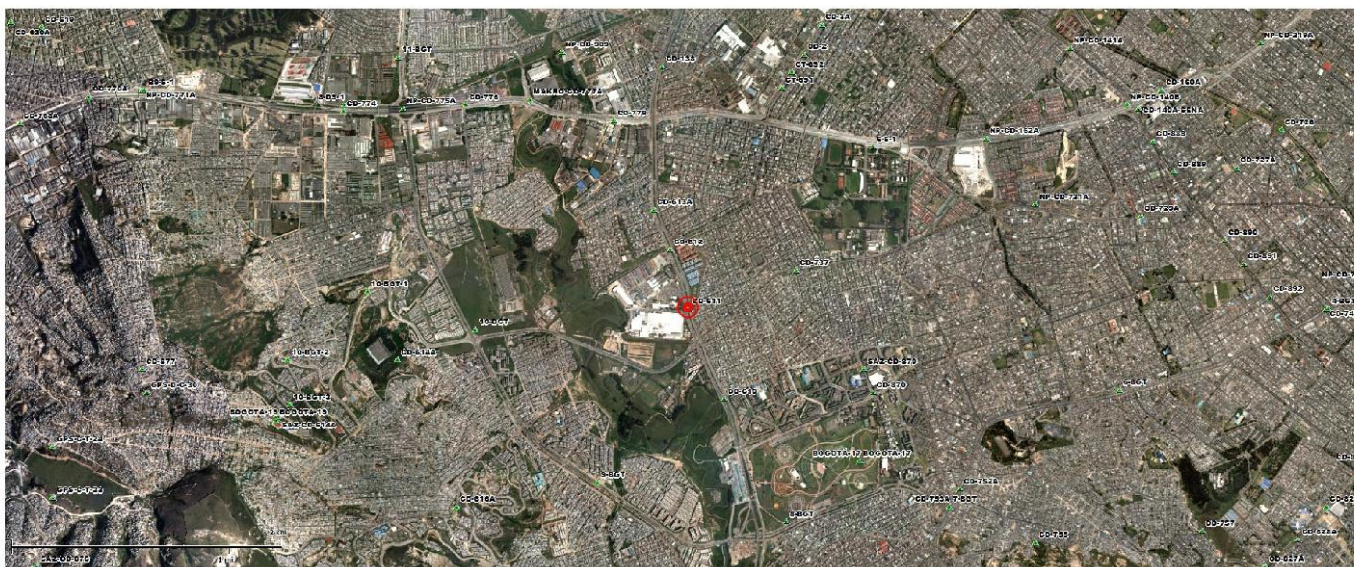
C D 610

Observaciones:

*Impronta*







## Puntos Consultados

Las coordenadas en el sistema de referencia MAGNA-SIRGAS (ITRF94, época 1995.4, elipsoide GRS-80) de los puntos consultados son:

### Punto:CD-611

Departamento: BOGOTÁ, D.C. Municipio: BOGOTÁ, D.C.

#### ELIPSOIDALES

Latitud: 4° 34' 56.78674" N

Longitud: 74° 8' 34.98860" W

Altura Elipsoidal: 2580.204 m

Altura(snm): 2556.523 m (GEOMÉTRICA) Cálculo realizado en el año 1999

#### GEOCÉNTRICAS CARTESIANAS Y SUS VELOCIDADES

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Y= -6118421.37 M Vy= 0.001 m/año

Z= 506377.005 M Vz= 0.013 m/año


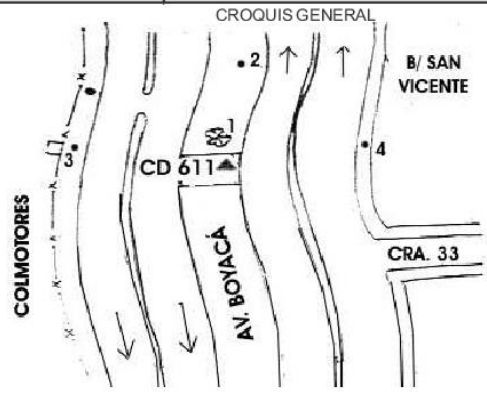
Cálculo realizado en el año 2001

Norte = 98474.676

Este = 92727.776

Generado en línea el 09/05/2017 hora 03:50 con fundamento en los datos disponibles en la base de datos del sistema GEOCARTO de la Subdirección de Geografía y Cartografía. El uso que se haga de esta información no es responsabilidad del IGAC. Cualquier información adicional puede solicitarse al correo electrónico [geodesia@igac.gov.co](mailto:geodesia@igac.gov.co).

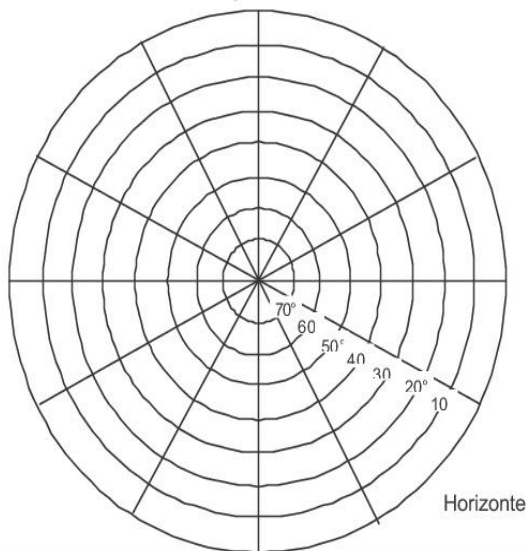
La conversión a coordenadas planas puede realizarla mediante el aplicativo MAGNA-SIRGAS PRO V.3, disponible en <http://www.igac.gov.co:10040/wps/themes/html/archivosPortal/Magnapro3.zip>

 <small>DISTRITO ADMINISTRATIVO NACIONAL DE ESTADÍSTICA INSTITUTO GEOGRÁFICO AGUSTÍN CODAZZI</small>		DESCRIPCIÓN DE PUNTO MATERIALIZADO DE CONTROL HORIZONTAL		FECHA (DD/MM/AAAA) 13/02/2003																									
Departamento CUNDINAMARCA		Municipio BOGOTÁ D.C.		Vereda o barrio San Vicente																									
Finca o dirección Avenida Bovacá (CL 56S) x Carrera 33																													
Nomenclatura estandarizada <b>CD 611</b>		Nombre del punto (Estampado en placa) <b>CD 611</b>																											
Distancias y direcciones a la señal de Azimut y objetos sobresalientes que pueden observarse desde el vértice																													
OBJETO		AZIMUT MAGNÉTICO	DISTANCIA EN METROS	DIRECCIONES																									
1	Árbol	350	4																										
2	Torre alta tensión	359	48.9																										
3	Poste alumbrado	285	30																										
4	Poste alumbrado	78	35																										
5	C D 610	152	719.573																										
<p>Acceso (Croquis general)</p> <p>Para acceder al vértice se toma la Avenida Carrera 30 en dirección al sur hasta llegar a la Autopista Sur, la cual se toma hacia el occidente hasta alcanzar la Avenida Boyacá. Desde esta intersección, se continúa en dirección al sur por ésta última Avenida hasta llegar a la intersección con la Carrera 33, en donde se encuentra el punto.</p>																													
<p>Descripción (Croquis detallado)</p> <p>El vértice se encuentra en un paso peatonal sobre el separador central de la Avenida Boyacá, a 50 metros al norte de la Carrera 33, frente a una garita de vigilancia de las instalaciones de "Colmotores"</p> <p>La marca central es un disco de bronce estándar del Instituto Geográfico "Agustín Codazzi" incrustado en el separador antes mencionado. El estampado exacto en el disco en cuestión es: CD 611 DACD AÑO 86-96.</p>																													
<p>CROQUIS GENERAL</p> 																													
<p>CROQUIS DETALLADO</p>																													
<table border="0"> <tr> <td colspan="2">Determinación</td> <td colspan="2">Monumentación</td> <td colspan="2"></td> </tr> <tr> <td>GPS</td> <td><input checked="" type="checkbox"/></td> <td>Incrustación</td> <td><input checked="" type="checkbox"/></td> <td>Mojón</td> <td><input type="checkbox"/></td> </tr> <tr> <td>CONVENCIONAL</td> <td><input type="checkbox"/></td> <td>Pilastra</td> <td><input type="checkbox"/></td> <td>De concreto</td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Otro</td> <td><input type="checkbox"/></td> <td>Sobresale</td> <td>cms.</td> </tr> </table>						Determinación		Monumentación				GPS	<input checked="" type="checkbox"/>	Incrustación	<input checked="" type="checkbox"/>	Mojón	<input type="checkbox"/>	CONVENCIONAL	<input type="checkbox"/>	Pilastra	<input type="checkbox"/>	De concreto	<input type="checkbox"/>			Otro	<input type="checkbox"/>	Sobresale	cms.
Determinación		Monumentación																											
GPS	<input checked="" type="checkbox"/>	Incrustación	<input checked="" type="checkbox"/>	Mojón	<input type="checkbox"/>																								
CONVENCIONAL	<input type="checkbox"/>	Pilastra	<input type="checkbox"/>	De concreto	<input type="checkbox"/>																								
		Otro	<input type="checkbox"/>	Sobresale	cms.																								
<p><b>Nota:</b> En la fecha _____ se encontró el vértice destruido _____ movido _____</p> <p>Nombre _____ Firma _____</p>		<p>Coordenadas MAGNA-SIRGAS (WGS84) aproximadas:</p> <p><math>\phi =</math> <u>04°34'57"N</u></p> <p><math>\lambda =</math> <u>74°08'35"W</u></p> <p><math>h =</math> <u>2580 m.</u></p>																											
<p>Describió <b>PACO BASTIDAS</b></p>				<p>Materializó <input type="checkbox"/></p> <p>Actualizó <input checked="" type="checkbox"/></p>																									



### Diagrama de Obstáculos

NORTE

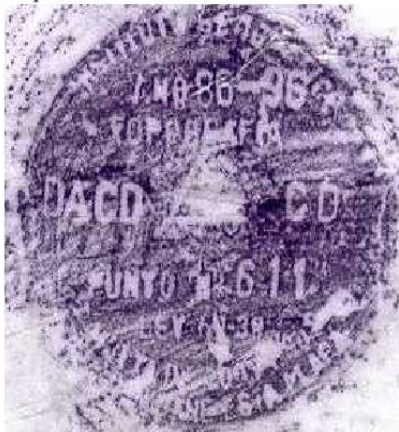


Horizonte

CD 611

Observaciones:

### Impronta



## ANEXO 6

# COORDENADAS REPLANTEO POLÍGONO OFICIAL Y REDELIMITACION POR PRECISION DE LIMITES

## COORDENADAS DEL POLIGONO OFICIAL PEDH TUNJO

PUNTO	ESTE	NORTE
1	92285,89	97706,53
2	92284	97686,18
3	92282,33	97666,93
4	92279,89	97639,93
5	92302,32	97658,85
6	92315,42	97669,91
7	92332,18	97667,15
8	92353,49	97663,72
9	92376,36	97659,96
10	92402,45	97655,64
11	92413,33	97667,04
12	92430,53	97684,96
13	92445,74	97700,89
14	92460,28	97716,16
15	92472,16	97728,55
16	92500,03	97734,85
17	92525,78	97740,94
18	92547,21	97746,03
19	92569,85	97735,18
20	92578,4	97721,47
21	92586,73	97708,08
22	92597,72	97690,49
23	92604,27	97705,76
24	92609,93	97719,14
25	92621,03	97733,08
26	92630,58	97744,92
27	92649,23	97750,45
28	92662,44	97761,62
29	92677,2	97774,24
30	92687,64	97797,14
31	92689,52	97817,05

PUNTO	ESTE	NORTE
32	92691,85	97839,39
33	92701,51	97855,77
34	92709,62	97869,37
35	92720,72	97888,07
36	92731,6	97906,32
37	92744,7	97917,17
38	92756,35	97926,79
39	92777,78	97932,76
40	92795,98	97937,96
41	92812,74	97937,41
42	92827,73	97936,97
43	92844,16	97936,41
44	92858,59	97929,22
45	92871,69	97922,7
46	92882,13	97912,3
47	92897	97897,36
48	92913,88	97880,44
49	92928,09	97866,28
50	92941,3	97853
51	92949,07	97834,86
52	92956,17	97818,05
53	92970,94	97800,79
54	92983,37	97786,3
55	92997,14	97760,08
56	93000,36	97746,69
57	93005,57	97725,01
58	93004,69	97709,08
59	93003,24	97684,96
60	92998,69	97672,9
61	92992,36	97656,2
62	92974,38	97639,94



PUNTO	ESTE	NORTE
63	92961,39	97628,21
64	92947,18	97615,38
65	92929,42	97599,34
66	92910,22	97581,97
67	92892,23	97565,6
68	92887,35	97539,16
69	92889,35	97515,15
70	92891,23	97493,03
71	92883,68	97467,58
72	92876,36	97442,8
73	92858,93	97432,84
74	92842,17	97436,83
75	92817,85	97442,69
76	92798,76	97428,97
77	92788,88	97400,76
78	92790,1	97376,76
79	92809,31	97358,72
80	92827,4	97368,13
81	92847,83	97378,75
82	92864,15	97377,64
83	92880,47	97376,43
84	92898,01	97375,21
85	92926,98	97373,22
86	92938,97	97363,7
87	92950,63	97354,63
88	92959,28	97339,37
89	92967,5	97324,65
90	92978,6	97304,96
91	92978,49	97280,73
92	92967,94	97269,01

PUNTO	ESTE	NORTE
93	92947,96	97246,99
94	92959,4	97216,79
95	92968,28	97193,12
96	92995,81	97187,81
97	93019,01	97183,27
98	93031,11	97173,32
99	93042,43	97163,91
100	93016,12	97159,05
101	92991,7	97151,74
102	92967,06	97145,77
103	92941,52	97139,69
104	92913,44	97132,83
105	92886,02	97126,3
106	92853,16	97118,33
107	92820,08	97110,37
108	92824,96	97145,44
109	92805,2	97163,91
110	92785,55	97182,28
111	92763,9	97202,52
112	92743,48	97221,55
113	92719,05	97244,45
114	92694,97	97266,9
115	92670,54	97288,48
116	92664,88	97314,14
117	92665,66	97333,83
118	92666,77	97362,26
119	92667,88	97390,58
120	92668,88	97417,02
121	92676,43	97444,46
122	92684,2	97472,56

PUNTO	ESTE	NORTE
123	92694,19	97509,18
124	92674,43	97523,34
125	92646,23	97507,74
126	92625,8	97493,02
127	92607,15	97472,78
128	92585,06	97448,77
129	92566,19	97428,31
130	92548,32	97408,84
131	92526,12	97398,88
132	92500,47	97387,49
133	92487,15	97390,69
134	92472,83	97394,23
135	92449,07	97400,1
136	92432,75	97412,16
137	92415,33	97424,99
138	92401,89	97429,52
139	92385,13	97435,17
140	92363,59	97437,49
141	92347,28	97439,15
142	92312,2	97442,91
143	92290,33	97445,34

PUNTO	ESTE	NORTE
144	92268,9	97447,56
145	92234,82	97451,21
146	92219,28	97454,97
147	92184,75	97463,27
148	92168,32	97467,25
149	92154,67	97486,39
150	92143,35	97502,32
151	92132,36	97517,69
152	92120,26	97534,62
153	92125,25	97561,28
154	92129,36	97583,74
155	92133,24	97604,42
156	92139,46	97638,28
157	92143,13	97657,75
158	92146,12	97673,9
159	92169,88	97679,54
160	92191,08	97684,41
161	92210,29	97689,16
162	92237,15	97695,14
163	92263,68	97701,44
164	92285,89	97706,53

**Fuente:** Acuerdo 577 de 2014

## ANEXO 7

# COORDENADAS ESTACAS REPLANTEO

## HUMEDAL TUNJO

### LISTADO DE COORDENADAS DE ESTACAS INSTALADAS EN EL REPLANTEO

PTO	ESTE	NORTE
MJ-1	92285,89	97706,53
MJ-2	92284	97686,18
MJ-3	92282,33	97666,93
MJ-4	92279,89	97639,93
MJ-5	92302,32	97658,85
MJ-6	92315,42	97669,91
MJ-7	92332,18	97667,15
MJ-8	92353,49	97663,72
MJ-9	92376,36	97659,96
MJ-10	92402,45	97655,64
MJ-11	92413,33	97667,04
MJ-12	92430,53	97684,96
MJ-13	92445,74	97700,89
MJ-14	92460,28	97716,16
MJ-15	92472,16	97728,55
MJ-99	93042,43	97163,91
MJ-100	93016,12	97159,05
MJ-101	92991,7	97151,74
MJ-102	92967,06	97145,77
MJ-103	92941,52	97139,69
MJ-104	92913,44	97132,83
MJ-105	92886,02	97126,3
MJ-106	92853,16	97118,33
MJ-107	92820,08	97110,37
MJ-108	92824,96	97145,44
MJ-109	92805,2	97163,91
MJ-110	92785,55	97182,28
MJ-111	92763,9	97202,52
MJ-112	92743,48	97221,55
MJ-113	92719,05	97244,45
MJ-114	92694,97	97266,9

PTO	ESTE	NORTE
MJ-115	92670,54	97288,48
MJ-116	92664,88	97314,14
MJ-117	92665,66	97333,83
MJ-118	92666,77	97362,26
MJ-119	92667,88	97390,58
MJ-120	92668,88	97417,02
MJ-121	92676,43	97444,46
MJ-122	92684,2	97472,56
MJ-123	92694,19	97509,18
MJ-124	92674,43	97523,34
MJ-125	92646,23	97507,74
MJ-126	92625,8	97493,02
MJ-127	92607,15	97472,78
MJ-128	92585,06	97448,77
MJ-129	92566,19	97428,31
MJ-130	92548,32	97408,84
MJ-131	92526,12	97398,88
MJ-132	92500,47	97387,49
MJ-133	92487,15	97390,69
MJ-134	92472,83	97394,23
MJ-135	92449,07	97400,1
MJ-136	92432,75	97412,16
MJ-137	92415,33	97424,99
MJ-138	92401,89	97429,52
MJ-139	92385,13	97435,17
MJ-140	92363,59	97437,49
MJ-141	92347,28	97439,15
MJ-142	92312,2	97442,91
MJ-143	92290,33	97445,34
MJ-144	92268,9	97447,56
MJ-145	92234,82	97451,21

PTO	ESTE	NORTE
MJ-146	92219,28	97454,97
MJ-147	92184,75	97463,27
MJ-148	92168,32	97467,25
MJ-149	92154,67	97486,39
MJ-150	92143,35	97502,32
MJ-151	92132,36	97517,69
MJ-152	92120,26	97534,62
MJ-153	92130,06	97560,07
MJ-154	92135,7	97582,46
MJ-155	92140,38	97601,66

PTO	ESTE	NORTE
MJ-156	92148,9	97635,59
MJ-157	92153,7	97654,02
MJ-158	92153,16	97675,57
MJ-159	92169,88	97679,54
MJ-160	92191,08	97684,41
MJ-161	92210,29	97689,16
MJ-162	92237,15	97695,14
MJ-163	92263,68	97701,44
MJ-164	92285,89	97706,53

Fuente: Consorcio JA, 2017

# ANEXO 8

## PLANOS DE TRABAJO DE CAMPO









