

Comune di
FERRARA

VISTO: SI ATTESTA L'AVVENUTO DEPOSITO AI SENSI
DELL'ART. 4 DELLA LEGGE N° 1086 DEL
PROGETTO

N° 2158/08

26 MAG. 2008

AZIENDA OSPEDALIERA UNIVERSITARIA DI FERRARA
modi previsti dalla L. 675/96 e successive modificazioni.

L'ADDETTO

COMPLETAMENTO DELLA NUOVA SEDE DELL'ARCISPEDALE
SANT'ANNA IN CONA (FE)
TRAMITE CONCESSIONE DI PROGETTAZIONE DEFINITIVA ED
ESECUATIVA, COSTRUZIONE E GESTIONE

PROGETTO ESECUTIVO

Concessionaria: **PROG.ESTE Spa**

Affidataria lavori di progettazione e costruzione: **CONSORZIO CONA**

IMPRESE COSTRUTTRICI E GESTIONALI

CMB - Carpi (MO) -Mandatara-	SIRAM - Milano
COOP. COSTRUZIONI - BO	HERA - Cassana (FE)
CMR - Filo d'Argenta (FE)	PETROLIFERA Estense - Ferrara
CIAB - Bologna	CIDAS - Copparo (FE)
SINTECO - Ferrara	C.I.R. - Reggio Emilia
BUSI IMPIANTI - Bologna	SERENISSIMA RIST. - Vicenza
SINTEXCAL - Ferrara	COOPSER - Ferrara
Ing.SARTI G.&C. - Poggio R. (FE)	COOP SERVICE - Cavriago (RE)
TUBI COSTRUZIONI - Ferrara	SERVIZI ITALIA - Castellina di S.
DALVA - Ferrara	Impresa BERTONCELLI - FE



Ing. Mauro Ferrari
Ing. Massimiliano Galeazzi
Ing. Pierluigi
Ing. Piero
Dott. Ing. MAURO FERRARI



mezzadri ingegneria s.r.l.

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dott. Ing.
Giuliano



PROGETTISTI

PROGETTAZIONE ARCHITETTONICA
NUOVE COSTRUZIONI E COORDINAMENTO
GENERALE DELLA PROGETTAZIONE

STUDIO ALTIERI S.p.A. -
Thiene (VI)

Responsabile tecnico della progettazione
Arch. Alberto Allieri

Codice commessa:

H 0 3 8 7 P E

PROGETTAZIONE ARCHITETTONICA DELLE
RISTRUTTURAZIONI E PROGETTAZIONE
STRUTTURALE

STS Servizi Tecnologie
Sistemi S.p.A. - Bologna

Responsabile tecnico della progettazione
Arch. Eugenio Arbizzani

Codice commessa:

0 5 . 2 2

PROGETTAZIONE IMPIANTISTICA
S.T.E.P. S.n.c. - Ferrara

Responsabile tecnico della progettazione
Ing. Adolfo Alberto Totti

Codice commessa:

8 4 8

PROGETTAZIONE DELLE URBANIZZAZIONI
E SISTEMAZIONI ESTERNE

U.TE.CO. - Ferrara

Responsabile tecnico della progettazione
Arch. Pietro Pigozzi

Codice commessa:

0 5 0 1 2

Rev.	Data	Descrizione
00	11/12/2007	dott. ing MELCHIORRI C.

CONSORZIO CONA		STS Servizi Tecnologie Sistemi S.p.A.		
Verifica	Approvaz.	Verifica	Approvaz.	Redatto

Denominazione:

**CORPO 33 - CARICHI AL PIEDE
SPOSTAMENTI DIFFERENZIALI - SPOSTAMENTI P-DELTA**

Codice elaboro:

E 0 0 X X S 1 4 2 2 4 8

Codice commessa:

0 0 0 0 0 F 7.3

FILE: F_E_0_S_142.248_C33RCP_R00

CONSORZIO CONA
Via C. Pisacane 2 - 41012 Carpi (MO)
C.F. e P.IVA 03065540369

CONDIZIONI DI CARICO:

(1) PESI PROPRI STRUTTURALI

(2) CARICHI 1' FASE (trave autoportante: p.p. trave + aliquota di solaio incidente)

Questa condizione di carico viene usata per verificare le travi in prima fase (montaggio struttura).

(3) PESO PROPRIO SOLAI

(4) PERMANENTI

(5) ACCIDENTALI

(6) ACCIDENTALI COPERTURA

(7) ACCIDENTALI SCALE

(8) TAMPONAMENTI

(9) PERMANENTI COPERTURA METALLICA

(10) SISMA IN DIREZIONE 0

(11) SISMA IN DIREZIONE 90

(12) SISMA IN DIREZIONE 180

(13) SISMA IN DIREZIONE 270

(14) SISMA IN DIREZIONE 180+

(15) SISMA IN DIREZIONE 180-

(16) SISMA IN DIREZIONE 270+

(17) SISMA IN DIREZIONE 270-

(18) SISMA IN DIREZIONE 0 (per verifiche allo S.L.D.)

(19) SISMA IN DIREZIONE 90 (per verifiche allo S.L.D.)

(20) SISMA IN DIREZIONE 180 (per verifiche allo S.L.D.)

(21) SISMA IN DIREZIONE 270 (per verifiche allo S.L.D.)

(22) SISMA IN DIREZIONE 180+ (per verifiche allo S.L.D.)

(23) SISMA IN DIREZIONE 180- (per verifiche allo S.L.D.)

(24) SISMA IN DIREZIONE 270+ (per verifiche allo S.L.D.)

(25) SISMA IN DIREZIONE 270- (per verifiche allo S.L.D.)

LO SCHEMA STATICO ADOTTATO E' A TELAIO SPAZIALE SOGGETTO ALLE AZIONI VERTICALI E ORIZZONTALI DI PROGETTO.

IL METODO DI CALCOLO E' QUELLO DELL' ANALISI DINAMICA CON CONDENSAMENTO DEI NODI.

LE VERIFICHE SONO ESEGUITE CON IL **METODO DEGLI STATI LIMITE** E CON L'APPLICAZIONE DELLE "NORME TECNICHE PER LE COSTRUZIONI" DI CUI AL D.M. 14-09-2005 E ALL' ORDINANZA n. 3274 DEL 20-03-2003 E SUCCESSIVE MODIFICHE ED INTEGRAZIONI, UTILIZZANDO I SEGUENTI PARAMETRI PROGETTUALI:

PARAMETRI DI CALCOLO UTILIZZATI PER L'ANALISI DINAMICA:

- ZONA: 3 (a/g=0.15)

- CATEGORIA DI SUOLO: C

- FATTORE DI IMPORTANZA: 1.4 (ospedale)

- CLASSE DI DUTTILITA': BASSA

- FATTORE DI STRUTTURA PER SISMA ORIZZONTALE: p.ti 5.3.2. e 5.7.2 per strutture in cemento armato prefabbricate: $q_0 = q \times K_D \times K_R = 3.5$ essendo:

$q = 5$ (strutture prefabbricate a telaio)

$K_D = 0.7$ (classe di duttilità "bassa")

$K_R = 1$ (struttura regolare in altezza)

FATTORI DI PARTECIPAZIONE PER IL CALCOLO DELLE MASSE:

	Condizione	Commento	Fattore di Partecipazione
1	Peso proprio		1.000000
2	Prima fase		0.000000
3	Peso solaio		1.000000
4	Permanenti		1.000000
5	Accidentali		0.600000
6	Accidentali coperture (neve)		0.200000
7	Accidentali scale		0.800000
8	Tamponamenti		1.000000
9	Permanenti copertura metallica		1.000000

COMBINAZIONI DI CARICO CONSIDERATE:

Combinazioni Stati Limite Ultimi (S.L.U.)

	Combinazione di carico numero
1	Sisma 0+ / 90+
2	Sisma 0+ / 90-
3	Sisma 0+ / 270+
4	Sisma 0+ / 270-
5	Sisma 0- / 90+
6	Sisma 0- / 90-
7	Sisma 0- / 270+
8	Sisma 0- / 270-
9	Sisma 90+ / 0+
10	Sisma 90+ / 0-
11	Sisma 90+ / 180+
12	Sisma 90+ / 180-
13	Sisma 90- / 0+
14	Sisma 90- / 0-
15	Sisma 90- / 180+
16	Sisma 90- / 180-
17	Sisma 180+ / 90+
18	Sisma 180+ / 90-
19	Sisma 180+ / 270+
20	Sisma 180+ / 270-
21	Sisma 180- / 90+
22	Sisma 180- / 90-
23	Sisma 180- / 270+
24	Sisma 180- / 270-
25	Sisma 270+ / 0+
26	Sisma 270+ / 0-
27	Sisma 270+ / 180+
28	Sisma 270+ / 180-
29	Sisma 270- / 0+
30	Sisma 270- / 0-

31 32 33 34 35 36

Comb.\Cond	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	1.4000	0.0000	0.4200	0.0000	0.0000	0.0000	0.0000	0.0000
2	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	1.4000	0.0000	0.0000	0.4200	0.0000	0.0000	0.0000	0.0000
3	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4200	0.0000
4	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4200
5	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	1.4000	0.4200	0.0000	0.0000	0.0000	0.0000	0.0000
6	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	1.4000	0.0000	0.4200	0.0000	0.0000	0.0000	0.0000
7	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	1.4000	0.0000	0.0000	0.0000	0.0000	0.4200	0.0000
8	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4200
9	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.4200	0.0000	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000
10	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.4200	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000
11	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	1.4000	0.0000	0.4200	0.0000	0.0000	0.0000
12	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	1.4000	0.0000	0.0000	0.4200	0.0000	0.0000
13	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.4200	0.0000	0.0000	1.4000	0.0000	0.0000	0.0000	0.0000
14	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.4200	0.0000	1.4000	0.0000	0.0000	0.0000	0.0000
15	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	1.4000	0.4200	0.0000	0.0000	0.0000
16	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	1.4000	0.0000	0.4200	0.0000	0.0000
17	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.4200	0.0000	1.4000	0.0000	0.0000	0.0000
18	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	1.4000	0.0000	0.0000	0.0000
19	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	1.4000	0.0000	0.4200	0.0000
20	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	1.4000	0.0000	0.0000	0.4200
21	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.4200	0.0000	0.0000	1.4000	0.0000	0.0000
22	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.4200	0.0000	0.0000	0.0000	0.0000
23	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.4000	0.4200	0.0000
24	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.4000	0.0000	0.4200
25	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.4200	0.0000	0.0000	0.0000	0.0000	0.0000	1.4000	0.0000

26	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.4200	0.0000	0.0000	0.0000	0.0000	1.4000	0.0000
27	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.4200	0.0000	1.4000	0.0000
28	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4200	1.4000	0.0000
29	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.4000
30	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.4200	0.0000	0.0000	0.0000	0.0000	0.0000	1.4000
31	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.4200	0.0000	0.0000	1.4000
32	1.0000	-1.0000	1.0000	1.0000	0.6000	0.2000	0.8000	1.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4200	0.0000	1.4000
33	1.4000	-1.0000	1.4000	1.4000	1.5000	0.9000	1.5000	1.4000	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
34	1.4000	-1.0000	1.4000	1.4000	1.0500	1.5000	1.5000	1.4000	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35	1.4000	-1.0000	1.4000	1.4000	1.0500	0.9000	1.5000	1.4000	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
36	1.4000	-1.0000	1.4000	1.4000	1.5000	1.5000	1.5000	1.4000	1.4000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Combinazioni RARE Stati Limite di Esercizio

Comb.\Cond	1	2	3	4	5	6	7	8	9
37	1.0000	-1.0000	1.0000	1.0000	1.0000	0.6000	1.0000	1.0000	1.0000
38	1.0000	-1.0000	1.0000	1.0000	0.7000	1.0000	1.0000	1.0000	1.0000
39	1.0000	-1.0000	1.0000	1.0000	0.7000	0.6000	1.0000	1.0000	1.0000

Combinazioni FREQUENTI Stati Limite di Esercizio

Comb.\Cond	1	2	3	4	5	6	7	8	9
40	1.0000	-1.0000	1.0000	1.0000	0.7000	0.1000	0.8000	1.0000	1.0000
41	1.0000	-1.0000	1.0000	1.0000	0.6000	0.3000	0.8000	1.0000	1.0000
42	1.0000	-1.0000	1.0000	1.0000	0.6000	0.1000	0.9000	1.0000	1.0000

Combinazioni QUASI PERMANENTI Stati Limite di Esercizio

Comb.\Cond	1	2	3	4	5	6	7	8	9
43	1.0000	-1.0000	1.0000	1.0000	0.6000	0.1000	0.8000	1.0000	1.0000

Combinazioni agli Stati Limite di Danno

Combinazione di carico numero

44	Sisma 0+ / 90+
45	Sisma 0+ / 90-
46	Sisma 0+ / 270+
47	Sisma 0+ / 270-
48	Sisma 0- / 90+
49	Sisma 0- / 90-
50	Sisma 0- / 270+
51	Sisma 0- / 270-
52	Sisma 90+ / 0+
53	Sisma 90+ / 0-
54	Sisma 90+ / 180+
55	Sisma 90+ / 180-
56	Sisma 90- / 0+
57	Sisma 90- / 0-
58	Sisma 90- / 180+
59	Sisma 90- / 180-
60	Sisma 180+ / 90+
61	Sisma 180+ / 90-
62	Sisma 180+ / 270+
63	Sisma 180+ / 270-
64	Sisma 180- / 90+
65	Sisma 180- / 90-
66	Sisma 180- / 270+
67	Sisma 180- / 270-
68	Sisma 270+ / 0+
69	Sisma 270+ / 0-
70	Sisma 270+ / 180+
71	Sisma 270+ / 180-
72	Sisma 270- / 0+
73	Sisma 270- / 0-
74	Sisma 270- / 180+

CARICHI AL PIEDE



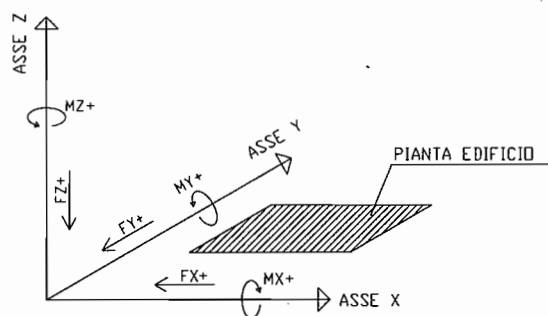
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CERTIFICAZIONE
SISTEMA QUALITÀ

CERTIFICATO N. 97157
PROGETTAZIONE E
PRODUZIONE DI
COMPONENTI STRUTTURALI
IN CALCESTRUZZO

SCHEMA SOLLECITAZIONI



IL SIGNIFICATO DEI SEGNI NELLA TABELLA DEI CARICHI AL PIEDE E' COME IN FIG.

COMBINAZIONI DI CARICO :

- 1) CARICHI VERTICALI
- 2) CARICHI VERTICALI + AZIONE SISMICA DIR. X+
- 3) CARICHI VERTICALI + AZIONE SISMICA DIR. X-
- 4) CARICHI VERTICALI + AZIONE SISMICA DIR. Y+
- 5) CARICHI VERTICALI + AZIONE SISMICA DIR. Y-

LA NUMERAZIONE DEI NODI A CUI FANNO RIFERIMENTO LE TABELLE SEGUENTI E' RIPORTATA SULLA TAVOLA DENOMINATA "FILI FISSI".

I VALORI DELLE AZIONI RELATIVE AI NODI 111-123-135-146 RAPPRESENTANO LE SOLLECITAZIONI AL PIEDE DEI PILASTRI n. 11-23-35-46 IN PARTENZA SUL DIAFRAMMA.

Squilibrio nodi così vincolati:

U_x VINCOLATA U_y VINCOLATA U_z VINCOLATA

R_x VINCOLATA R_y VINCOLATA R_z VINCOLATA

Combinazioni agli Stati Limite Ultimi

Nodo	Comb.	R _x [kg]	R _y [kg]	R _z [kg]	M _x [kgm]	M _y [kgm]	M _z [kgm]
1	1	-5542.7	749.5	113848.8	-1015.8	-17215.9	-42.1
	2	-5483.3	708.1	114508.5	-866.9	-17044.6	-35.1
	3	-5078.2	1115.0	116797.0	-2318.3	-15864.9	13.9
	4	-5018.7	1073.5	117456.7	-2169.5	-15693.6	21.0
	5	-5394.2	664.8	114690.2	-716.8	-16785.1	-22.2
	6	-5334.8	623.3	115349.9	-567.9	-16613.8	-15.2
	7	-4929.7	1030.2	117638.4	-2019.4	-15434.1	33.8
	8	-4870.3	988.8	118298.1	-1870.5	-15262.8	40.9
	9	-1652.8	347.9	124546.3	423.9	-6127.0	-108.8
	10	-1608.2	322.4	124798.7	513.6	-5997.8	-102.9
	11	2160.9	353.0	137071.0	414.5	4770.7	-108.8
	12	2205.4	327.6	137323.5	504.1	4900.0	-102.8
	13	-1454.7	209.7	126745.4	920.0	-5556.0	-85.2
	14	-1410.1	184.3	126997.8	1009.7	-5426.8	-79.3
	15	2358.9	214.8	139270.2	910.6	5341.8	-85.2
	16	2403.5	189.4	139522.6	1000.3	5471.0	-79.3
	17	7169.4	766.7	155598.1	-1047.2	19110.1	-42.1
	18	7228.8	725.2	156257.8	-898.4	19281.4	-35.0
	19	7633.9	1132.1	158546.3	-2349.8	20461.1	14.0
	20	7693.3	1090.7	159206.0	-2201.0	20632.4	21.1
	21	7317.8	681.9	156439.5	-748.3	19540.9	-22.2
	22	7377.3	640.5	157099.2	-599.4	19712.2	-15.1
	23	7782.3	1047.4	159387.7	-2050.8	20891.9	33.9
	24	7841.8	1005.9	160047.4	-1902.0	21063.2	41.0
	25	-104.4	1566.1	134373.6	-3918.0	-1623.7	78.1
	26	-59.9	1540.6	134626.0	-3828.3	-1494.5	84.1
	27	3709.2	1571.2	146898.4	-3927.5	9274.1	78.1
	28	3753.8	1545.8	147150.8	-3837.8	9403.3	84.1
	29	93.7	1427.9	136572.7	-3421.9	-1052.7	101.7
	30	138.2	1402.5	136825.1	-3332.2	-923.4	107.7
	31	3907.3	1433.0	149097.5	-3431.3	9845.1	101.7
	32	3951.8	1407.6	149349.9	-3341.7	9974.3	107.7
	33	1961.1	1434.4	212517.3	-2385.1	3269.2	-1.0
	34	1797.4	1428.6	200355.1	-2373.2	2998.0	-0.9
	35	1789.3	1428.2	199325.6	-2372.4	2984.5	-0.8
	36	1969.2	1434.8	213546.8	-2385.9	3282.7	-1.0
2	1	-5881.4	24.5	195286.0	154.9	-17770.5	-42.1
	2	-5834.6	7.7	193954.0	270.6	-17620.0	-35.1
	3	-5488.5	146.7	195178.2	-658.1	-16537.4	13.9

4	-5441.7	129.9	193846.2	-542.4	-16386.9	21.0
5	-5756.0	-0.8	194900.3	316.9	-17377.6	-22.2
6	-5709.2	-17.6	193568.4	432.5	-17227.1	-15.2
7	-5363.1	121.3	194792.5	-496.1	-16144.5	33.8
8	-5316.3	104.5	193460.6	-380.5	-15994.0	40.9
9	-2360.7	-106.2	192394.5	1022.2	-7289.6	-108.8
10	-2323.1	-113.8	192278.8	1070.8	-7171.7	-102.9
11	1059.2	-105.2	188592.0	1019.7	2959.8	-108.8
12	1096.8	-112.8	188476.3	1068.3	3077.7	-102.8
13	-2204.7	-162.2	187954.6	1407.8	-6787.9	-85.2
14	-2167.1	-169.8	187838.9	1456.4	-6670.0	-79.3
15	1215.2	-161.2	184152.1	1405.3	3461.5	-85.2
16	1252.8	-168.8	184036.4	1453.9	3579.4	-79.3
17	5518.1	27.7	182611.0	146.6	16394.1	-42.1
18	5564.9	10.9	181279.0	262.2	16544.6	-35.0
19	5911.1	149.8	182503.2	-666.4	17627.2	14.0
20	5957.9	133.0	181171.2	-550.8	17777.7	21.1
21	5643.5	2.3	182225.3	308.5	16787.0	-22.2
22	5690.4	-14.5	180893.3	424.2	16937.5	-15.1
23	6036.5	124.5	182117.5	-504.5	18020.1	33.9
24	6083.3	107.7	180785.5	-388.8	18170.6	41.0
25	-1051.0	301.0	192035.1	-1687.8	-3179.3	78.1
26	-1013.4	293.4	191919.4	-1639.2	-3061.4	84.1
27	2368.9	302.0	188232.6	-1690.3	7070.1	78.1
28	2406.5	294.4	188116.9	-1641.7	7188.0	84.1
29	-895.0	245.0	187595.2	-1302.2	-2677.5	101.7
30	-857.3	237.4	187479.5	-1253.6	-2559.7	107.7
31	2524.9	246.0	183792.7	-1304.7	7571.8	101.7
32	2562.5	238.4	183677.0	-1256.1	7689.7	107.7
33	212.0	114.6	301112.7	-203.0	394.2	-1.0
34	176.3	114.1	279033.1	-199.9	333.5	-0.9
35	175.1	114.0	276892.7	-199.8	331.3	-0.8
36	213.2	114.7	303253.1	-203.1	396.4	-1.0

3	1	-6001.1	-12.6	198460.3	196.4	-17968.0	-42.1
	2	-5951.5	-27.5	198452.6	310.5	-17812.9	-35.1
	3	-5598.5	78.3	198548.6	-482.1	-16718.8	13.9
	4	-5548.9	63.5	198541.0	-368.0	-16563.8	21.0
	5	-5872.4	-27.2	198441.7	298.4	-17569.7	-22.2
	6	-5822.9	-42.1	198434.0	412.5	-17414.7	-15.2
	7	-5469.8	63.7	198530.0	-380.1	-16320.6	33.8
	8	-5420.3	48.9	198522.4	-266.0	-16165.5	40.9
	9	-2460.7	-105.9	198194.9	888.6	-7454.3	-108.8
	10	-2422.1	-110.3	198189.3	919.2	-7334.8	-102.9
	11	987.6	-105.4	198053.7	886.8	2842.1	-108.8
	12	1026.2	-109.8	198048.1	917.4	2961.6	-102.8
	13	-2295.5	-155.5	198169.4	1268.8	-6937.6	-85.2
	14	-2256.9	-159.8	198163.8	1299.4	-6818.1	-79.3
	15	1152.7	-155.0	198028.1	1267.0	3358.8	-85.2
	16	1191.3	-159.4	198022.5	1297.6	3478.3	-79.3
	17	5492.9	-11.0	197989.6	190.5	16353.4	-42.1
	18	5542.5	-25.9	197981.9	304.6	16508.4	-35.0

19	5895.6	79.9	198077.9	-488.0	17602.5	14.0
20	5945.1	65.1	198070.3	-373.9	17757.5	21.1
21	5621.6	-25.6	197971.0	292.5	16751.6	-22.2
22	5671.2	-40.5	197963.3	406.6	16906.7	-15.1
23	6024.2	65.4	198059.3	-386.0	18000.8	33.9
24	6073.8	50.5	198051.6	-271.9	18155.8	41.0
25	-1118.6	197.2	198489.4	-1373.1	-3290.5	78.1
26	-1080.0	192.9	198483.8	-1342.5	-3171.0	84.1
27	2329.6	197.7	198348.2	-1374.9	7005.9	78.1
28	2368.2	193.3	198342.6	-1344.3	7125.4	84.1
29	-953.5	147.7	198463.9	-992.9	-2773.7	101.7
30	-914.9	143.3	198458.3	-962.3	-2654.2	107.7
31	2494.7	148.1	198322.7	-994.7	7522.7	101.7
32	2533.3	143.8	198317.1	-964.1	7642.2	107.7
33	43.7	28.9	318145.7	-59.2	117.7	-1.0
34	43.8	28.8	294437.6	-57.1	115.7	-0.9
35	43.7	28.8	292120.4	-57.1	115.3	-0.8
36	43.9	28.9	320463.0	-59.2	118.1	-1.0

4	1	-5979.4	160.0	202888.0	-93.7	-17932.3	-42.1
	2	-5930.6	142.7	202779.4	14.0	-17778.3	-35.1
	3	-5579.6	261.7	203539.1	-730.2	-16687.7	13.9
	4	-5530.8	244.4	203430.5	-622.5	-16533.8	21.0
	5	-5851.7	149.8	202829.8	-36.0	-17535.5	-22.2
	6	-5802.8	132.5	202721.1	71.7	-17381.6	-15.2
	7	-5451.9	251.5	203480.9	-672.6	-16291.0	33.8
	8	-5403.0	234.2	203372.3	-564.8	-16137.1	40.9
	9	-2461.8	58.0	202244.2	542.3	-7456.2	-108.8
	10	-2423.5	54.9	202226.7	559.7	-7337.2	-102.9
	11	963.6	58.0	202252.4	541.4	2802.7	-108.8
	12	1001.9	54.9	202234.9	558.7	2921.7	-102.8
	13	-2299.0	0.3	201882.2	901.4	-6943.2	-85.2
	14	-2260.6	-2.7	201864.7	918.7	-6824.1	-79.3
	15	1126.5	0.3	201890.4	900.5	3315.7	-85.2
	16	1164.8	-2.7	201872.9	917.8	3434.8	-79.3
	17	5438.7	160.0	202915.3	-96.8	16264.0	-42.1
	18	5487.5	142.7	202806.6	11.0	16417.9	-35.0
	19	5838.5	261.7	203566.4	-733.3	17508.5	14.0
	20	5887.3	244.4	203457.8	-625.6	17662.5	21.1
	21	5566.4	149.8	202857.0	-39.1	16660.8	-22.2
	22	5615.3	132.5	202748.4	68.6	16814.7	-15.1
	23	5966.2	251.5	203508.1	-675.6	17905.3	33.9
	24	6015.1	234.2	203399.5	-567.9	18059.2	41.0
	25	-1129.2	397.0	204414.6	-1579.4	-3307.8	78.1
	26	-1090.8	393.9	204397.1	-1562.1	-3188.8	84.1
	27	2296.3	397.0	204422.8	-1580.3	6951.1	78.1
	28	2334.6	393.9	204405.3	-1563.0	7070.1	84.1
	29	-966.3	339.3	204052.6	-1220.3	-2794.8	101.7
	30	-928.0	336.2	204035.1	-1203.0	-2675.8	107.7
	31	2459.1	339.3	204060.8	-1221.3	7464.1	101.7
	32	2497.5	336.2	204043.3	-1203.9	7583.1	107.7
	33	22.5	274.7	324770.0	-463.0	82.8	-1.0

34	21.3	275.6	301170.9	-462.9	78.6	-0.9
35	21.3	275.6	298867.2	-463.0	78.5	-0.8
36	22.5	274.6	327073.7	-462.9	82.9	-1.0

5	1	-5999.8	1.8	198401.4	168.9	-17965.7	-42.1
	2	-5951.0	-8.3	198387.3	237.6	-17811.9	-35.1
	3	-5599.5	73.6	198504.6	-387.9	-16720.4	13.9
	4	-5550.7	63.6	198490.6	-319.3	-16566.6	21.0
	5	-5871.9	-3.0	198401.0	211.1	-17568.8	-22.2
	6	-5823.1	-13.1	198387.0	279.7	-17415.0	-15.2
	7	-5471.7	68.8	198504.3	-345.7	-16323.5	33.8
	8	-5422.9	58.7	198490.2	-277.1	-16169.7	40.9
	9	-2467.1	-71.9	198265.1	753.3	-7464.8	-108.8
	10	-2428.7	-73.3	198265.0	765.9	-7345.7	-102.9
	11	971.6	-71.8	198237.6	753.3	2815.9	-108.8
	12	1010.0	-73.3	198237.5	765.9	2935.0	-102.8
	13	-2304.4	-105.4	198218.2	982.0	-6952.1	-85.2
	14	-2266.1	-106.8	198218.1	994.6	-6833.1	-79.3
	15	1134.3	-105.3	198190.7	982.0	3328.6	-85.2
	16	1172.7	-106.8	198190.6	994.6	3447.7	-79.3
	17	5462.6	2.0	198309.6	168.9	16303.5	-42.1
	18	5511.4	-8.0	198295.5	237.6	16457.3	-35.0
	19	5862.9	73.9	198412.9	-387.9	17548.7	14.0
	20	5911.7	63.8	198398.8	-319.3	17702.5	21.1
	21	5590.5	-2.8	198309.2	211.1	16700.4	-22.2
	22	5639.3	-12.8	198295.2	279.7	16854.2	-15.1
	23	5990.8	69.0	198412.5	-345.7	17945.6	33.9
	24	6039.6	59.0	198398.4	-277.1	18099.4	41.0
	25	-1132.9	167.5	198609.3	-1102.8	-3313.9	78.1
	26	-1094.5	166.1	198609.1	-1090.2	-3194.9	84.1
	27	2305.8	167.6	198581.7	-1102.8	6966.8	78.1
	28	2344.2	166.2	198581.6	-1090.2	7085.9	84.1
	29	-970.2	134.1	198562.4	-874.1	-2801.3	101.7
	30	-931.9	132.6	198562.3	-861.4	-2682.2	107.7
	31	2468.5	134.1	198534.8	-874.1	7479.5	101.7
	32	2506.9	132.7	198534.7	-861.4	7598.6	107.7
	33	25.0	42.6	318173.2	-77.6	87.0	-1.0
	34	23.8	42.6	294549.8	-76.1	82.8	-0.9
	35	23.8	42.6	292243.6	-76.1	82.6	-0.8
	36	25.1	42.6	320479.5	-77.6	87.1	-1.0

6	1	-5995.4	160.1	203187.4	-15.4	-17958.4	-42.1
	2	-5946.5	155.6	203177.8	2.6	-17804.4	-35.1
	3	-5595.0	244.7	203611.8	-598.6	-16713.0	13.9
	4	-5546.1	240.2	203602.1	-580.5	-16559.0	21.0
	5	-5867.5	160.2	203122.2	-18.0	-17561.4	-22.2
	6	-5818.5	155.7	203112.6	0.0	-17407.4	-15.2
	7	-5467.1	244.8	203546.6	-601.2	-16316.0	33.8
	8	-5418.1	240.3	203536.9	-583.1	-16161.9	40.9
	9	-2466.6	70.6	202679.3	612.6	-7464.0	-108.8
	10	-2428.2	70.6	202659.8	611.9	-7344.9	-102.9
	11	969.0	73.9	202678.0	586.7	2811.6	-108.8

12	1007.4	74.0	202658.5	585.9	2930.7	-102.8
13	-2303.5	55.6	202647.1	672.9	-6950.6	-85.2
14	-2265.1	55.6	202627.6	672.1	-6831.5	-79.3
15	1132.1	58.9	202645.8	646.9	3325.0	-85.2
16	1170.5	58.9	202626.3	646.1	3444.1	-79.3
17	5456.6	171.3	203183.1	-102.0	16293.6	-42.1
18	5505.6	166.8	203173.4	-83.9	16447.6	-35.0
19	5857.0	255.9	203607.4	-685.1	17539.1	14.0
20	5906.0	251.4	203597.8	-667.0	17693.1	21.1
21	5584.6	171.4	203117.9	-104.6	16690.6	-22.2
22	5633.5	166.9	203108.3	-86.5	16844.6	-15.1
23	5985.0	256.0	203542.3	-687.7	17936.1	33.9
24	6033.9	251.5	203532.6	-669.6	18090.1	41.0
25	-1132.0	352.6	204093.7	-1331.2	-3312.5	78.1
26	-1093.6	352.7	204074.2	-1332.0	-3193.3	84.1
27	2303.6	356.0	204092.4	-1357.2	6963.2	78.1
28	2342.0	356.0	204072.9	-1358.0	7082.3	84.1
29	-968.9	337.6	204061.5	-1271.0	-2799.1	101.7
30	-930.5	337.6	204042.0	-1271.8	-2680.0	107.7
31	2466.7	340.9	204060.2	-1296.9	7476.5	101.7
32	2505.1	341.0	204040.7	-1297.7	7595.7	107.7
33	24.0	288.3	325135.3	-481.3	85.3	-1.0
34	22.9	288.3	301511.3	-480.1	81.2	-0.9
35	22.8	288.2	299198.0	-479.9	81.1	-0.8
36	24.1	288.4	327448.6	-481.5	85.5	-1.0

7	1	-5998.9	-13.9	198385.9	334.7	-17964.2	-42.1
	2	-5950.1	-10.9	198388.5	293.4	-17810.4	-35.1
	3	-5599.0	57.2	198462.5	-260.2	-16719.5	13.9
	4	-5550.2	60.3	198465.0	-301.4	-16565.8	21.0
	5	-5871.1	1.1	198389.8	200.5	-17567.4	-22.2
	6	-5822.3	4.1	198392.3	159.2	-17413.7	-15.2
	7	-5471.3	72.2	198466.3	-394.4	-16322.8	33.8
	8	-5422.5	75.2	198468.8	-435.7	-16169.1	40.9
	9	-2466.2	-95.2	198300.5	1029.1	-7463.3	-108.8
	10	-2427.8	-90.7	198301.6	988.8	-7344.3	-102.9
	11	972.2	-95.3	198305.1	1028.3	2816.8	-108.8
	12	1010.5	-90.8	198306.3	988.1	2935.8	-102.8
	13	-2303.6	-85.2	198308.9	891.5	-6950.8	-85.2
	14	-2265.3	-80.7	198310.0	851.2	-6831.7	-79.3
	15	1134.8	-85.3	198313.5	890.7	3329.3	-85.2
	16	1173.1	-80.8	198314.7	850.5	3448.4	-79.3
	17	5462.3	-14.2	198401.4	332.3	16302.9	-42.1
	18	5511.1	-11.2	198404.0	291.0	16456.6	-35.0
	19	5862.1	56.9	198478.0	-262.6	17547.5	14.0
	20	5910.9	59.9	198480.5	-303.9	17701.2	21.1
	21	5590.0	0.8	198405.3	198.0	16699.6	-22.2
	22	5638.8	3.8	198407.8	156.8	16853.3	-15.1
	23	5989.9	71.9	198481.8	-396.8	17944.2	33.9
	24	6038.7	74.9	198484.3	-438.1	18098.0	41.0
	25	-1133.3	141.8	198555.6	-953.9	-3314.6	78.1
	26	-1095.0	146.3	198556.8	-994.1	-3195.6	84.1

27	2305.1	141.7	198560.3	-954.6	6965.5	78.1
28	2343.4	146.2	198561.4	-994.9	7084.6	84.1
29	-970.7	151.9	198564.0	-1091.5	-2802.1	101.7
30	-932.4	156.4	198565.2	-1131.7	-2683.0	107.7
31	2467.6	151.8	198568.7	-1092.2	7478.1	101.7
32	2506.0	156.3	198569.8	-1132.5	7597.1	107.7
33	25.2	42.8	318230.5	-73.5	87.2	-1.0
34	23.9	42.7	294603.0	-72.5	83.0	-0.9
35	23.9	42.7	292296.0	-72.5	82.8	-0.8
36	25.2	42.8	320537.6	-73.5	87.4	-1.0

8	1	-5981.7	134.2	203780.7	165.2	-17935.9	-42.1
	2	-5932.9	148.0	203787.6	61.8	-17782.1	-35.1
	3	-5582.2	233.0	204047.3	-535.2	-16692.0	13.9
	4	-5533.4	246.8	204054.2	-638.5	-16538.2	21.0
	5	-5854.1	162.2	203816.3	-33.7	-17539.4	-22.2
	6	-5805.3	176.0	203823.3	-137.1	-17385.6	-15.2
	7	-5454.6	261.0	204082.9	-734.1	-16295.5	33.8
	8	-5405.8	274.8	204089.8	-837.5	-16141.7	40.9
	9	-2459.3	12.5	203411.8	1032.4	-7451.9	-108.8
	10	-2421.0	20.9	203422.5	972.7	-7333.0	-102.9
	11	969.9	12.3	203358.5	1031.7	2813.1	-108.8
	12	1008.2	20.7	203369.1	972.0	2932.0	-102.8
	13	-2296.6	58.5	203434.9	687.9	-6939.3	-85.2
	14	-2258.3	66.9	203445.6	628.2	-6820.3	-79.3
	15	1132.6	58.3	203381.5	687.1	3325.8	-85.2
	16	1170.9	66.7	203392.2	627.5	3444.7	-79.3
	17	5448.9	133.6	203602.8	162.8	16280.8	-42.1
	18	5497.7	147.4	203609.8	59.5	16434.6	-35.0
	19	5848.3	232.4	203869.4	-537.5	17524.8	14.0
	20	5897.1	246.2	203876.4	-640.9	17678.6	21.1
	21	5576.5	161.6	203638.5	-36.1	16677.4	-22.2
	22	5625.3	175.4	203645.4	-139.5	16831.2	-15.1
	23	5976.0	260.4	203905.1	-736.5	17921.3	33.9
	24	6024.8	274.2	203912.0	-839.8	18075.1	41.0
	25	-1127.8	341.7	204300.5	-1302.1	-3305.5	78.1
	26	-1089.5	350.1	204311.1	-1361.8	-3186.6	84.1
	27	2301.4	341.5	204247.1	-1302.8	6959.5	78.1
	28	2339.7	349.9	204257.8	-1362.5	7078.4	84.1
	29	-965.1	387.7	204323.5	-1646.7	-2792.9	101.7
	30	-926.8	396.1	204334.2	-1706.3	-2673.9	107.7
	31	2464.0	387.5	204270.2	-1647.4	7472.2	101.7
	32	2502.3	395.9	204280.9	-1707.0	7591.1	107.7
	33	26.9	285.9	325896.8	-473.0	90.1	-1.0
	34	25.6	286.1	302225.6	-472.5	85.8	-0.9
	35	25.6	285.9	299906.3	-472.4	85.6	-0.8
	36	27.0	286.0	328216.1	-473.1	90.3	-1.0

9	1	-6205.9	-87.7	191516.9	612.8	-18304.6	-42.1
	2	-6139.8	-63.4	192306.3	453.7	-18122.1	-35.1
	3	-5755.3	33.4	195212.0	-201.8	-16977.1	13.9
	4	-5689.2	57.7	196001.4	-360.9	-16794.5	21.0

5	-6060.5	-47.3	192418.5	349.9	-17878.7	-22.2
6	-5994.3	-23.0	193207.9	190.7	-17696.2	-15.2
7	-5609.8	73.7	196113.6	-464.7	-16551.1	33.8
8	-5543.7	98.0	196903.0	-623.9	-16368.6	40.9
9	-2683.4	-243.9	187212.9	1656.8	-7819.9	-108.8
10	-2639.7	-231.8	187483.3	1577.9	-7692.1	-102.9
11	809.1	-244.5	187737.7	1656.7	2549.2	-108.8
12	852.7	-232.4	188008.2	1577.8	2677.0	-102.8
13	-2463.0	-162.8	189844.2	1126.2	-7211.5	-85.2
14	-2419.3	-150.7	190114.7	1047.3	-7083.8	-79.3
15	1029.5	-163.3	190369.1	1126.1	3157.6	-85.2
16	1073.1	-151.2	190639.5	1047.3	3285.4	-79.3
17	5435.6	-89.7	193266.4	612.6	16259.2	-42.1
18	5501.7	-65.3	194055.8	453.4	16441.8	-35.0
19	5886.2	31.4	196961.5	-202.0	17586.8	14.0
20	5952.3	55.7	197750.9	-361.2	17769.3	21.1
21	5581.0	-49.3	194168.0	349.7	16685.2	-22.2
22	5647.2	-25.0	194957.4	190.5	16867.7	-15.1
23	6031.7	71.7	197863.1	-464.9	18012.7	33.9
24	6097.8	96.1	198652.5	-624.1	18195.2	41.0
25	-1181.3	159.6	199529.8	-1058.5	-3394.8	78.1
26	-1137.6	171.7	199800.3	-1137.4	-3267.0	84.1
27	2311.2	159.0	200054.7	-1058.6	6974.4	78.1
28	2354.8	171.1	200325.1	-1137.5	7102.2	84.1
29	-960.9	240.7	202161.2	-1589.1	-2786.4	101.7
30	-917.2	252.8	202431.6	-1668.0	-2658.6	107.7
31	2531.6	240.1	202686.0	-1589.2	7582.8	101.7
32	2575.2	252.2	202956.5	-1668.1	7710.6	107.7
33	-83.5	1.1	313092.2	-0.4	-91.4	-1.0
34	-79.5	3.9	289731.7	-4.5	-87.0	-0.9
35	-78.3	4.1	287467.2	-5.0	-85.2	-0.8
36	-84.6	0.9	315356.6	0.1	-93.2	-1.0

10	1	-5829.0	-656.9	91595.0	1639.4	-17683.9	-42.1
	2	-5787.2	-527.0	99568.8	1272.8	-17541.6	-35.1
	3	-5478.4	-56.6	128776.6	-60.1	-16520.4	13.9
	4	-5436.6	73.3	136750.4	-426.7	-16378.2	21.0
	5	-5716.9	-449.9	100278.1	1057.4	-17313.0	-22.2
	6	-5675.1	-320.0	108251.9	690.8	-17170.8	-15.2
	7	-5366.4	150.4	137459.7	-642.1	-16149.6	33.8
	8	-5324.6	280.3	145433.5	-1008.7	-16007.3	40.9
	9	-2643.7	-1444.6	47902.2	3858.7	-7754.5	-108.8
	10	-2610.1	-1382.5	50507.2	3684.1	-7643.2	-102.9
	11	445.3	-1451.7	53001.7	3869.4	1950.9	-108.8
	12	478.9	-1389.6	55606.6	3694.8	2062.1	-102.8
	13	-2504.3	-1011.6	74481.5	2636.7	-7280.3	-85.2
	14	-2470.7	-949.5	77086.4	2462.1	-7169.0	-79.3
	15	584.7	-1018.7	79581.0	2647.4	2425.1	-85.2
	16	618.3	-956.7	82185.9	2472.8	2536.3	-79.3
	17	4467.7	-680.6	108593.2	1675.1	14667.3	-42.1
	18	4509.5	-550.7	116567.0	1308.5	14809.6	-35.0
	19	4818.3	-80.3	145774.8	-24.4	15830.8	14.0

20	4860.1	49.6	153748.6	-391.0	15973.0	21.1
21	4579.7	-473.6	117276.3	1093.1	15038.2	-22.2
22	4621.5	-343.7	125250.1	726.5	15180.5	-15.1
23	4930.3	126.7	154457.9	-606.4	16201.6	33.9
24	4972.1	256.6	162431.7	-973.0	16343.9	41.0
25	-1475.1	556.3	171840.8	-1806.3	-3876.3	78.1
26	-1441.5	618.4	174445.8	-1980.9	-3765.1	84.1
27	1613.9	549.2	176940.3	-1795.6	5829.0	78.1
28	1647.5	611.3	179545.2	-1970.2	5940.3	84.1
29	-1335.8	989.3	198420.1	-3028.3	-3402.1	101.7
30	-1302.2	1051.4	201025.0	-3202.9	-3290.8	107.7
31	1753.2	982.2	203519.5	-3017.6	6303.3	101.7
32	1786.8	1044.3	206124.5	-3192.2	6414.5	107.7
33	-736.7	-353.7	205594.8	587.9	-1165.1	-1.0
34	-678.1	-310.4	189238.8	516.7	-1070.9	-0.9
35	-675.0	-307.0	187895.6	510.9	-1065.8	-0.8
36	-739.8	-357.1	206938.0	593.7	-1170.1	-1.0
1	-5963.2	-385.2	171470.4	858.7	-17607.7	-42.1
2	-5941.6	-439.8	173737.7	1029.1	-17549.9	-35.1
3	-5792.5	111.2	171592.6	-660.5	-17147.5	13.9
4	-5770.9	56.7	173859.9	-490.1	-17089.8	21.0
5	-5910.1	-501.3	172117.7	1209.7	-17464.8	-22.2
6	-5888.5	-555.9	174385.0	1380.2	-17407.1	-15.2
7	-5739.3	-4.8	172239.9	-309.5	-17004.7	33.8
8	-5717.8	-59.4	174507.2	-139.0	-16947.0	40.9
9	-1017.7	-936.6	193854.2	2546.0	-4293.6	-108.8
10	-1001.7	-971.4	194048.3	2651.3	-4250.8	-102.9
11	3397.7	-932.5	215235.5	2538.3	7593.3	-108.8
12	3413.7	-967.3	215429.7	2643.6	7636.2	-102.8
13	-945.8	-1118.5	201411.7	3114.2	-4101.3	-85.2
14	-929.9	-1153.3	201605.9	3219.6	-4058.4	-79.3
15	3469.6	-1114.3	222793.1	3106.5	7785.7	-85.2
16	3485.6	-1149.1	222987.3	3211.8	7828.6	-79.3
17	8754.8	-371.4	242741.7	832.9	22015.7	-42.1
18	8776.4	-426.0	245008.9	1003.4	22073.4	-35.0
19	8925.6	125.1	242863.9	-686.3	22475.8	14.0
20	8947.1	70.5	245131.2	-515.8	22533.5	21.1
21	8807.9	-487.5	243388.9	1183.9	22158.5	-22.2
22	8829.5	-542.1	245656.2	1354.4	22216.2	-15.1
23	8978.7	9.0	243511.2	-335.3	22618.6	33.9
24	9000.3	-45.6	245778.4	-164.8	22676.3	41.0
25	-448.5	718.3	194261.6	-2517.9	-2759.9	78.1
26	-432.6	683.5	194455.8	-2412.6	-2717.1	84.1
27	3966.9	722.5	215642.9	-2525.7	9127.1	78.1
28	3982.8	687.6	215837.1	-2420.4	9169.9	84.1
29	-376.6	536.5	201819.1	-1949.7	-2567.5	101.7
30	-360.7	501.7	202013.3	-1844.4	-2524.7	107.7
31	4038.8	540.6	223200.5	-1957.5	9319.5	101.7
32	4054.7	505.8	223394.7	-1852.2	9362.3	107.7
33	2659.9	-350.0	328167.0	562.6	4424.8	-1.0
34	2411.5	-355.0	307239.3	573.2	4013.7	-0.9

35	2398.7	-355.3	305485.8	573.9	3992.4	-0.8
36	2672.7	-349.6	329920.5	561.9	4446.1	-1.0

13	1	-16376.0	-222.2	159919.2	1154.0	-46767.5	-145.7
	2	-16479.1	-288.7	154064.2	1618.6	-46797.3	-121.2
	3	-15798.0	268.4	194266.8	-2121.9	-45853.1	48.2
	4	-15901.1	202.0	188411.8	-1657.3	-45882.9	72.7
	5	-16401.5	-325.3	155553.7	1808.7	-46665.3	-76.9
	6	-16504.6	-391.8	149698.7	2273.4	-46695.1	-52.4
	7	-15823.5	165.3	189901.3	-1467.2	-45750.9	117.0
	8	-15926.6	98.8	184046.3	-1002.6	-45780.7	141.5
	9	-6624.8	-748.2	171312.6	4650.5	-16922.4	-376.4
	10	-6632.5	-779.2	170002.9	4846.9	-16891.8	-355.8
	11	2215.8	-744.0	210880.6	4639.7	9513.0	-376.3
	12	2208.2	-774.9	209570.9	4836.2	9543.7	-355.7
	13	-6968.6	-969.8	151795.9	6199.3	-17021.7	-294.8
	14	-6976.3	-1000.7	150486.3	6395.7	-16991.1	-274.1
	15	1872.0	-965.6	191363.9	6188.6	9413.7	-294.7
	16	1864.4	-996.5	190054.3	6385.0	9444.4	-274.1
	17	13092.8	-208.1	291812.5	1118.2	41350.6	-145.5
	18	12989.7	-274.5	285957.5	1582.8	41320.8	-121.0
	19	13670.8	282.6	326160.2	-2157.7	42265.0	48.5
	20	13567.7	216.1	320305.2	-1693.1	42235.2	72.9
	21	13067.3	-311.2	287447.0	1772.9	41452.8	-76.7
	22	12964.2	-377.7	281592.0	2237.6	41423.0	-52.2
	23	13645.3	179.5	321794.7	-1503.0	42367.2	117.2
	24	13542.2	113.0	315939.7	-1038.4	42337.4	141.7
	25	-4698.2	887.3	285804.6	-6269.3	-13874.5	270.1
	26	-4705.8	856.3	284494.9	-6072.9	-13843.8	290.7
	27	4142.5	891.5	325372.6	-6280.1	12561.0	270.2
	28	4134.8	860.6	324062.9	-6083.7	12591.6	290.8
	29	-5041.9	665.7	266287.9	-4720.5	-13973.8	351.7
	30	-5049.6	634.7	264978.3	-4524.1	-13943.1	372.3
	31	3798.7	669.9	305855.9	-4731.3	12461.7	351.8
	32	3791.0	639.0	304546.3	-4534.8	12492.3	372.4
	33	-2560.1	-93.3	388074.8	97.3	-4045.2	-3.3
	34	-2298.5	-94.3	356221.3	107.4	-3625.3	-3.0
	35	-2289.7	-94.3	353130.2	107.8	-3611.4	-2.9
	36	-2568.9	-93.3	391165.9	96.9	-4059.0	-3.4

14	1	-30790.9	-4737.7	-16079.6	5320.8	-84350.9	4247.2
	2	-30697.1	-19243.0	-43280.4	14030.8	-84153.7	4244.4
	3	-30173.6	84482.0	150816.0	-48606.9	-82841.8	4233.1
	4	-30079.7	69976.8	123615.2	-39896.9	-82644.5	4230.2
	5	-30641.1	-19336.8	-43154.9	14359.1	-84006.9	4243.9
	6	-30547.3	-33842.0	-70355.7	23069.1	-83809.7	4241.0
	7	-30023.8	69882.9	123740.7	-39568.5	-82497.8	4229.7
	8	-29929.9	55377.7	96539.9	-30858.6	-82300.5	4226.8
	9	-10776.7	-97808.5	-188547.9	61699.9	-29047.9	1295.1
	10	-10731.7	-102188.2	-196670.5	64411.4	-28944.7	1294.1
	11	7044.8	-98489.2	-188560.5	62095.8	19957.8	-1251.3
	12	7089.7	-102868.9	-196683.1	64807.3	20061.0	-1252.3

13	-10463.7	-146159.3	-279217.3	90733.2	-28390.5	1285.5
14	-10418.7	-150539.0	-287339.9	93444.7	-28287.3	1284.5
15	7357.8	-146840.0	-279229.8	91129.0	20615.2	-1260.9
16	7402.7	-151219.7	-287352.4	93840.5	20718.4	-1261.9
17	28613.8	-7006.8	-16121.5	6640.2	79001.5	-4240.7
18	28707.7	-21512.0	-43322.3	15350.2	79198.7	-4243.6
19	29231.2	82213.0	150774.1	-47287.4	80510.6	-4254.9
20	29325.1	67707.7	123573.3	-38577.4	80707.8	-4257.7
21	28763.6	-21605.8	-43196.8	15678.5	79345.5	-4244.1
22	28857.5	-36111.1	-70397.6	24388.5	79542.7	-4247.0
23	29381.0	67613.9	123698.8	-38249.1	80854.6	-4258.2
24	29474.9	53108.7	96498.0	-29539.1	81051.8	-4261.1
25	-8718.8	199590.6	367770.8	-118058.9	-24017.5	1248.0
26	-8673.8	195210.9	359648.3	-115347.4	-23914.3	1247.0
27	9102.6	198909.9	367758.3	-117663.0	24988.2	-1298.4
28	9147.6	194530.2	359635.7	-114951.5	25091.4	-1299.4
29	-8405.8	151239.8	277101.5	-89025.6	-23360.1	1238.4
30	-8360.9	146860.1	268978.9	-86314.1	-23256.9	1237.4
31	9415.6	150559.1	277088.9	-88629.8	25645.6	-1308.0
32	9460.6	146179.4	268966.3	-85918.3	25748.8	-1309.0
33	-1357.7	38618.0	63452.2	-19454.4	-3424.6	-1.2
34	-1155.8	36455.3	60505.8	-18257.0	-2910.9	-3.7
35	-1150.1	35923.0	59578.4	-18001.3	-2896.7	-3.6
36	-1363.4	39150.2	64379.6	-19710.1	-3438.7	-1.3

15	1	-56939.2	-1652.7	7056.3	16682.6	-219496.0	1699.4
	2	-56766.8	-9768.4	-35840.9	18951.4	-218861.3	1717.2
	3	-55581.2	45438.8	253792.8	2650.1	-214459.1	1837.7
	4	-55408.8	37323.1	210895.5	4918.8	-213824.3	1855.4
	5	-56508.4	-9916.0	-17708.4	18070.1	-217914.8	1747.8
	6	-56335.9	-18031.7	-60605.6	20338.8	-217280.0	1765.5
	7	-55150.3	37175.6	229028.0	4037.5	-212877.8	1886.1
	8	-54977.9	29059.8	186130.8	6306.2	-212243.1	1903.8
	9	-19620.1	-48477.9	-219959.5	32886.8	-74659.3	267.3
	10	-19490.9	-50956.9	-227389.0	33303.0	-74185.0	281.8
	11	13768.8	-47159.0	-203275.9	34595.9	54683.7	-818.8
	12	13898.1	-49638.0	-210705.4	35012.1	55158.1	-804.3
	13	-19045.4	-75530.3	-362950.3	40449.1	-72543.6	326.3
	14	-18916.2	-78009.3	-370379.7	40865.3	-72069.3	340.9
	15	14343.5	-74211.4	-346266.7	42158.3	56799.4	-759.8
	16	14472.8	-76690.4	-353696.1	42574.5	57273.8	-745.3
	17	54357.3	2743.6	62668.3	22379.9	211647.4	-1920.9
	18	54529.7	-5372.1	19771.1	24648.6	212282.2	-1903.2
	19	55715.3	49835.1	309404.7	8347.3	216684.4	-1782.7
	20	55887.7	41719.4	266507.4	10616.0	217319.1	-1765.0
	21	54788.2	-5519.7	37903.5	23767.3	213228.7	-1872.6
	22	54960.6	-13635.4	-4993.7	26036.0	213863.4	-1854.8
	23	56146.2	41571.9	284639.9	9734.8	218265.7	-1734.3
	24	56318.6	33456.1	241742.7	12003.5	218900.4	-1716.6
	25	-15093.4	108493.8	602495.1	-13888.4	-57869.4	728.1
	26	-14964.1	106014.9	595065.8	-13472.2	-57395.0	742.6
	27	18295.6	109812.7	619178.8	-12179.2	71473.6	-358.0

28	18424.8	107333.7	611749.3	-11763.0	71948.0	-343.5
29	-14518.7	81441.5	459504.4	-6326.0	-55753.7	787.1
30	-14389.5	78962.5	452075.0	-5909.8	-55279.3	801.6
31	18870.3	82760.3	476188.0	-4616.9	73589.3	-299.0
32	18999.5	80281.4	468758.6	-4200.6	74063.7	-284.5
33	-757.8	24382.6	192332.9	22187.9	-1179.7	-10.7
34	-757.6	23499.4	184128.2	21287.9	-1214.0	-10.1
35	-711.7	23289.8	182634.9	21120.1	-1107.8	-10.0
36	-803.7	24592.2	193826.3	22355.7	-1285.9	-10.7

16	1	-27003.6	3497.1	-3496.4	367.0	-74676.9	4156.5
	2	-26897.7	-9132.8	-27374.1	7948.7	-74421.4	4159.3
	3	-26152.0	78440.8	138114.1	-44497.6	-72611.8	4179.9
	4	-26046.1	65811.0	114236.4	-36915.8	-72356.3	4182.7
	5	-26734.5	-10331.4	-22511.3	3243.0	-74026.9	4150.5
	6	-26628.6	-22961.2	-46389.0	10824.8	-73771.4	4153.3
	7	-25882.9	64612.4	119099.1	-41621.5	-71961.9	4173.9
	8	-25777.0	51982.6	95221.5	-34039.7	-71706.4	4176.7
	9	-8299.2	-75598.4	-149761.6	47755.4	-22703.8	1173.2
	10	-8218.5	-79746.9	-155466.1	48618.2	-22508.9	1171.4
	11	8609.9	-76932.0	-151694.5	50228.4	23970.1	-1355.9
	12	8690.6	-81080.5	-157399.0	51091.2	24165.1	-1357.7
	13	-7946.3	-117697.9	-229353.8	73027.9	-21852.1	1182.5
	14	-7865.6	-121846.4	-235058.3	73890.7	-21657.1	1180.7
	15	8962.8	-119031.5	-231286.7	75501.0	24821.9	-1346.6
	16	9043.5	-123180.0	-236991.2	76363.8	25016.9	-1348.4
	17	29360.0	-948.4	-9939.3	8610.5	80902.9	-4273.8
	18	29465.9	-13578.2	-33817.0	16192.3	81158.4	-4271.1
	19	30211.6	73995.4	131671.1	-36254.0	82967.9	-4250.4
	20	30317.5	61365.5	107793.5	-28672.3	83223.4	-4247.6
	21	29629.1	-14776.8	-28954.3	11486.6	81552.8	-4279.9
	22	29735.0	-27406.7	-52832.0	19068.3	81808.4	-4277.1
	23	30480.7	60167.0	112656.2	-33378.0	83617.9	-4256.4
	24	30586.6	47537.1	88778.5	-25796.2	83873.4	-4253.7
	25	-5460.5	174214.2	322273.3	-101793.0	-15820.4	1251.3
	26	-5379.7	170065.7	316568.9	-100930.2	-15625.4	1249.5
	27	11448.6	172880.5	320340.5	-99320.0	30853.6	-1277.8
	28	11529.3	168732.0	314636.0	-98457.2	31048.6	-1279.6
	29	-5107.6	132114.7	242681.1	-76520.5	-14968.6	1260.5
	30	-5026.8	127966.2	236976.6	-75657.7	-14773.6	1258.7
	31	11801.5	130781.1	240748.2	-74047.4	31705.4	-1268.6
	32	11882.2	126632.5	235043.8	-73184.6	31900.3	-1270.4
	33	3526.0	40247.4	67740.5	-19906.0	9039.3	-87.3
	34	3303.3	38274.9	64241.6	-18995.8	8464.9	-80.5
	35	3190.4	37588.4	63042.8	-18666.6	8177.7	-78.9
	36	3639.0	40933.9	68939.3	-20235.2	9326.5	-88.9

17	1	-12918.0	1559.8	324912.0	-1850.2	-40835.0	-145.7
	2	-12864.3	1499.8	322333.9	-1541.4	-40797.8	-121.2
	3	-13468.6	2024.9	340220.1	-4389.4	-42145.8	48.2
	4	-13415.0	1964.9	337642.0	-4080.6	-42108.6	72.7
	5	-12801.3	1525.6	323952.9	-1654.9	-40500.8	-76.9

6	-12747.7	1465.7	321374.8	-1346.0	-40463.6	-52.4
7	-13352.0	1990.7	339260.9	-4194.1	-41811.6	117.0
8	-13298.4	1930.7	336682.8	-3885.2	-41774.4	141.5
9	-2472.7	1075.4	298176.5	820.5	-9189.3	-376.4
10	-2437.7	1065.2	297888.7	879.1	-9089.1	-355.8
11	5948.3	1075.6	288278.0	820.7	16561.7	-376.3
12	5983.3	1065.4	287990.2	879.3	16662.0	-355.7
13	-2293.9	875.6	289582.8	1850.0	-9065.2	-294.8
14	-2258.9	865.4	289295.1	1908.6	-8965.0	-274.1
15	6127.1	875.8	279684.3	1850.2	16685.8	-294.7
16	6162.1	865.6	279396.6	1908.8	16786.1	-274.1
17	15152.2	1560.6	291917.0	-1849.4	45001.8	-145.5
18	15205.9	1500.6	289338.9	-1540.6	45039.0	-121.0
19	14601.6	2025.7	307225.0	-4388.6	43691.0	48.5
20	14655.2	1965.7	304646.9	-4079.8	43728.2	72.9
21	15268.8	1526.4	290957.8	-1654.1	45336.0	-76.7
22	15322.5	1466.5	288379.8	-1345.2	45373.2	-52.2
23	14718.2	1991.5	306265.9	-4193.3	44025.1	117.2
24	14771.8	1931.5	303687.8	-3884.4	44062.4	141.7
25	-4308.2	2625.7	349203.3	-7643.5	-13558.7	270.1
26	-4273.3	2615.5	348915.5	-7584.8	-13458.5	290.7
27	4112.8	2626.0	339304.8	-7643.2	12192.3	270.2
28	4147.8	2615.7	339017.0	-7584.6	12292.6	290.8
29	-4129.4	2425.9	340609.6	-6614.0	-13434.6	351.7
30	-4094.5	2415.7	340321.8	-6555.4	-13334.3	372.3
31	4291.6	2426.2	330711.1	-6613.7	12316.5	351.8
32	4326.6	2415.9	330423.3	-6555.1	12416.7	372.4
33	1803.9	3233.1	515578.8	-5310.5	3083.6	-3.3
34	1570.7	2827.4	477679.1	-4641.9	2695.3	-3.0
35	1560.3	2827.4	469696.1	-4642.0	2677.7	-2.9
36	1814.3	3233.1	523561.8	-5310.4	3101.2	-3.4

18	1	-13127.2	-125.9	336539.3	1212.8	-41669.9	-145.7
	2	-13094.7	-143.9	336645.6	1284.8	-41559.2	-121.2
	3	-12858.9	174.9	335909.5	-1071.0	-40766.7	48.2
	4	-12826.5	156.9	336015.8	-998.9	-40656.0	72.7
	5	-13044.2	-125.8	336624.6	1202.6	-41390.5	-76.9
	6	-13011.7	-143.7	336731.0	1274.6	-41279.9	-52.4
	7	-12775.9	175.1	335994.8	-1081.2	-40487.3	117.0
	8	-12743.5	157.1	336101.2	-1009.1	-40376.6	141.5
	9	-4400.0	-442.5	337539.7	3671.2	-13978.6	-376.4
	10	-4375.1	-442.5	337565.3	3668.1	-13894.7	-355.8
	11	3356.2	-431.1	337848.1	3569.8	10686.9	-376.3
	12	3381.1	-431.0	337873.7	3566.8	10770.8	-355.7
	13	-4291.9	-502.3	337894.2	3911.4	-13609.7	-294.8
	14	-4267.0	-502.2	337919.8	3908.4	-13525.9	-274.1
	15	3464.3	-490.8	338202.7	3810.0	11055.7	-294.7
	16	3489.2	-490.8	338228.3	3807.0	11139.6	-274.1
	17	12726.8	-87.8	337567.5	874.8	40548.4	-145.5
	18	12759.3	-105.7	337673.8	946.9	40659.1	-121.0
	19	12995.1	213.0	336937.7	-1408.9	41451.6	48.5
	20	13027.5	195.1	337044.1	-1336.9	41562.3	72.9

21	12809.8	-87.6	337652.9	864.6	40827.8	-76.7
22	12842.3	-105.5	337759.2	936.7	40938.4	-52.2
23	13078.1	213.2	337023.1	-1419.1	41731.0	117.2
24	13110.5	195.3	337129.4	-1347.1	41841.7	141.7
25	-3505.9	560.1	335440.4	-3941.3	-10967.8	270.1
26	-3481.0	560.2	335466.0	-3944.3	-10884.0	290.7
27	4250.3	571.6	335748.9	-4042.7	13697.7	270.2
28	4275.2	571.7	335774.5	-4045.7	13781.5	290.8
29	-3397.8	500.4	335795.0	-3701.1	-10599.0	351.7
30	-3372.9	500.4	335820.6	-3704.1	-10515.2	372.3
31	4358.5	511.8	336103.4	-3802.5	14066.5	351.8
32	4383.4	511.9	336129.0	-3805.5	14150.3	372.4
33	-56.1	97.3	552921.1	-179.2	45.3	-3.3
34	-43.1	74.4	512329.2	-136.9	59.0	-3.0
35	-43.7	74.3	503638.6	-136.9	57.6	-2.9
36	-55.5	97.4	561611.8	-179.2	46.8	-3.4

19	1	-13156.1	-170.4	322963.9	1539.8	-41716.8	-145.7
	2	-13123.8	-159.3	322965.2	1374.5	-41606.3	-121.2
	3	-12884.8	99.1	322937.3	-831.4	-40808.5	48.2
	4	-12852.4	110.2	322938.6	-996.6	-40698.0	72.7
	5	-13072.2	-113.6	322969.4	1003.9	-41435.9	-76.9
	6	-13039.9	-102.5	322970.7	838.7	-41325.4	-52.4
	7	-12800.8	155.9	322942.8	-1367.2	-40527.6	117.0
	8	-12768.5	167.0	322944.2	-1532.5	-40417.1	141.5
	9	-4377.2	-478.5	323016.0	4308.0	-13941.1	-376.4
	10	-4352.1	-461.4	323017.7	4147.2	-13856.8	-355.8
	11	3426.1	-479.0	323033.9	4305.0	10801.1	-376.3
	12	3451.2	-461.9	323035.5	4144.3	10885.3	-355.7
	13	-4269.5	-441.4	323020.5	3757.1	-13572.9	-294.8
	14	-4244.3	-424.4	323022.1	3596.3	-13488.6	-274.1
	15	3533.8	-441.9	323038.3	3754.2	11169.3	-294.7
	16	3559.0	-424.9	323040.0	3593.4	11253.6	-274.1
	17	12854.9	-172.0	323023.3	1530.0	40757.2	-145.5
	18	12887.2	-160.9	323024.6	1364.8	40867.7	-121.0
	19	13126.2	97.5	322996.7	-841.1	41665.5	48.5
	20	13158.6	108.6	322998.0	-1006.4	41776.0	72.9
	21	12938.8	-115.2	323028.8	994.2	41038.1	-76.7
	22	12971.1	-104.1	323030.1	828.9	41148.6	-52.2
	23	13210.2	154.3	323002.3	-1376.9	41946.4	117.2
	24	13242.5	165.5	323003.6	-1542.2	42056.8	141.7
	25	-3472.7	419.9	322927.5	-3595.9	-10913.5	270.1
	26	-3447.5	437.0	322929.1	-3756.6	-10829.2	290.7
	27	4330.6	419.4	322945.3	-3598.8	13828.7	270.2
	28	4355.8	436.5	322947.0	-3759.5	13913.0	290.8
	29	-3364.9	457.0	322931.9	-4146.7	-10545.3	351.7
	30	-3339.7	474.0	322933.6	-4307.5	-10461.0	372.3
	31	4438.4	456.5	322949.8	-4149.7	14196.9	351.8
	32	4463.6	473.5	322951.4	-4310.4	14281.2	372.4
	33	56.8	-0.4	532481.9	-10.9	229.7	-3.3
	34	52.8	-1.6	492462.5	-5.0	215.6	-3.0
	35	52.7	-1.6	483816.7	-5.2	215.0	-2.9

	36	56.9	-0.4	541127.8	-10.6	230.3	-3.4
20	1	-13129.9	-283.6	333027.1	2027.5	-41673.9	-145.7
	2	-13097.9	-238.5	333072.9	1627.9	-41564.1	-121.2
	3	-12858.8	48.1	333287.7	-685.7	-40766.2	48.2
	4	-12826.9	93.1	333333.6	-1085.3	-40656.3	72.7
	5	-13046.1	-189.9	333087.8	1257.0	-41393.3	-76.9
	6	-13014.2	-144.9	333133.7	857.4	-41283.5	-52.4
	7	-12775.1	141.7	333348.5	-1456.2	-40485.6	117.0
	8	-12743.2	186.8	333394.3	-1855.8	-40375.8	141.5
	9	-4364.0	-691.4	332626.8	5386.4	-13919.4	-376.4
	10	-4338.8	-663.3	332645.0	5155.3	-13835.2	-355.8
	11	3427.6	-692.3	332571.9	5383.9	10803.6	-376.3
	12	3452.7	-664.2	332590.1	5152.7	10887.8	-355.7
	13	-4257.5	-541.2	332779.6	4054.3	-13553.3	-294.8
	14	-4232.4	-513.1	332797.8	3823.2	-13469.1	-274.1
	15	3534.0	-542.1	332724.8	4051.7	11169.7	-294.7
	16	3559.1	-514.0	332743.0	3820.6	11253.8	-274.1
	17	12841.8	-286.7	332844.2	2018.9	40736.0	-145.5
	18	12873.8	-241.6	332890.0	1619.3	40845.8	-121.0
	19	13112.9	45.0	333104.8	-694.3	41643.7	48.5
	20	13144.8	90.0	333150.7	-1093.9	41753.5	72.9
	21	12925.6	-193.0	332904.9	1248.4	41016.5	-76.7
	22	12957.5	-148.0	332950.8	848.8	41126.4	-52.2
	23	13196.6	138.6	333165.6	-1464.7	41924.3	117.2
	24	13228.6	183.7	333211.4	-1864.4	42034.1	141.7
	25	-3460.4	414.1	333495.5	-3657.5	-10893.6	270.1
	26	-3435.3	442.2	333513.8	-3888.6	-10809.4	290.7
	27	4331.1	413.2	333440.7	-3660.0	13829.4	270.2
	28	4356.2	441.3	333458.9	-3891.2	13913.5	290.8
	29	-3354.0	564.3	333648.4	-4989.6	-10527.5	351.7
	30	-3328.9	592.4	333666.6	-5220.7	-10443.4	372.3
	31	4437.5	563.4	333593.5	-4992.2	14195.4	351.8
	32	4462.6	591.5	333611.8	-5223.3	14279.6	372.4
	33	62.5	-69.4	546748.4	110.4	239.0	-3.3
	34	58.7	-69.5	506724.5	113.7	225.3	-3.0
	35	58.6	-69.6	498050.5	113.5	224.6	-2.9
	36	62.6	-69.3	555422.3	110.6	239.6	-3.4
21	1	-13338.6	-254.0	321376.0	2306.3	-42014.4	-145.7
	2	-13315.8	-185.1	321036.3	1712.9	-41919.5	-121.2
	3	-13085.1	98.6	319744.8	-753.1	-41136.9	48.2
	4	-13062.2	167.5	319405.1	-1346.4	-41042.0	72.7
	5	-13262.4	-137.3	320940.2	1322.1	-41746.2	-76.9
	6	-13239.6	-68.4	320600.5	728.8	-41651.3	-52.4
	7	-13008.9	215.3	319309.0	-1737.2	-40868.7	117.0
	8	-12986.1	284.2	318969.3	-2330.6	-40773.8	141.5
	9	-4438.5	-706.7	324360.3	6221.2	-14038.6	-376.4
	10	-4415.6	-671.7	324229.5	5925.9	-13958.1	-355.8
	11	3443.7	-708.3	325078.0	6219.4	10832.7	-376.3
	12	3466.5	-673.3	324947.3	5924.1	10913.2	-355.7
	13	-4362.4	-477.1	323228.0	4243.4	-13722.2	-294.8

14	-4339.5	-442.1	323097.3	3948.1	-13641.7	-274.1
15	3519.8	-478.6	323945.8	4241.5	11149.1	-294.7
16	3542.6	-443.7	323815.0	3946.3	11229.6	-274.1
17	12935.3	-259.2	323768.5	2300.2	40889.9	-145.5
18	12958.1	-190.3	323428.8	1706.9	40984.8	-121.0
19	13188.8	93.3	322137.3	-759.1	41767.4	48.5
20	13211.6	162.3	321797.6	-1352.5	41862.3	72.9
21	13011.5	-142.6	323332.7	1316.0	41158.1	-76.7
22	13034.3	-73.7	322993.1	722.7	41253.0	-52.2
23	13265.0	210.0	321701.5	-1743.3	42035.6	117.2
24	13287.8	278.9	321361.8	-2336.6	42130.5	141.7
25	-3593.4	468.6	318922.8	-3976.7	-11113.5	270.1
26	-3570.6	503.6	318792.0	-4271.9	-11033.1	290.7
27	4288.8	467.0	319640.5	-3978.5	13757.8	270.2
28	4311.6	502.0	319509.8	-4273.7	13838.2	290.8
29	-3517.3	698.2	317790.6	-5954.5	-10797.1	351.7
30	-3494.4	733.2	317659.8	-6249.7	-10716.7	372.3
31	4364.9	696.7	318508.3	-5956.3	14074.2	351.8
32	4387.7	731.6	318377.6	-6251.5	14154.6	372.4
33	-43.9	20.1	529886.3	-27.0	65.2	-3.3
34	-50.5	18.6	489536.8	-22.4	46.8	-3.0
35	-43.4	18.4	481255.4	-22.6	58.1	-2.9
36	-51.1	20.2	538167.7	-26.7	54.0	-3.4

23	1	-151.9	-30.4	31590.5	103.5	-758.3	-9.1
	2	-151.4	-23.5	31538.1	75.9	-756.1	-7.6
	3	-148.0	0.1	31311.5	-20.5	-740.5	3.0
	4	-147.5	7.0	31259.2	-48.1	-738.3	4.5
	5	-150.7	-19.4	31502.6	59.8	-752.8	-4.8
	6	-150.2	-12.6	31450.3	32.2	-750.6	-3.3
	7	-146.8	11.1	31223.7	-64.2	-735.0	7.3
	8	-146.3	17.9	31171.4	-91.8	-732.8	8.8
	9	-51.7	-70.2	26528.3	264.9	-255.2	-23.5
	10	-51.3	-66.9	26502.0	251.8	-253.5	-22.2
	11	38.2	-70.2	21884.4	264.8	194.4	-23.5
	12	38.6	-66.9	21858.0	251.7	196.0	-22.2
	13	-50.1	-47.3	26353.9	172.9	-247.8	-18.4
	14	-49.7	-44.0	26327.5	159.8	-246.2	-17.1
	15	39.8	-47.3	21709.9	172.7	201.7	-18.4
	16	40.2	-44.0	21683.6	159.6	203.4	-17.1
	17	147.8	-30.5	16110.7	103.1	740.2	-9.1
	18	148.3	-23.6	16058.4	75.4	742.4	-7.6
	19	151.7	0.0	15831.8	-20.9	758.0	3.0
	20	152.2	6.9	15779.4	-48.5	760.2	4.6
	21	149.0	-19.5	16022.9	59.4	745.7	-4.8
	22	149.5	-12.6	15970.5	31.8	747.9	-3.3
	23	152.9	11.0	15743.9	-64.6	763.5	7.3
	24	153.4	17.9	15691.6	-92.2	765.7	8.9
	25	-38.7	31.5	25598.5	-148.3	-195.9	16.9
	26	-38.3	34.8	25572.1	-161.4	-194.3	18.2
	27	51.2	31.5	20954.6	-148.5	253.6	16.9
	28	51.6	34.8	20928.2	-161.6	255.3	18.2

29	-37.1	54.4	25424.0	-240.4	-188.6	22.0
30	-36.7	57.7	25397.7	-253.5	-186.9	23.3
31	52.8	54.4	20780.1	-240.6	261.0	22.0
32	53.2	57.7	20753.7	-253.7	262.6	23.3
33	1.0	-7.9	37123.0	7.2	5.1	-0.2
34	1.0	-8.4	33706.1	7.7	4.8	-0.2
35	1.0	-8.5	33690.0	7.7	4.8	-0.2
36	1.0	-7.9	37139.0	7.2	5.1	-0.2

24	1	-5711.7	39.4	174729.4	157.1	-16930.7	-42.1
	2	-5734.6	-12.7	172255.4	323.5	-16991.8	-35.1
	3	-5883.6	515.3	174565.8	-1328.0	-17392.4	13.9
	4	-5906.5	463.2	172091.8	-1161.6	-17453.4	21.0
	5	-5769.0	-72.4	174049.8	501.0	-17084.5	-22.2
	6	-5791.9	-124.5	171575.8	667.4	-17145.6	-15.2
	7	-5940.9	403.5	173886.2	-984.1	-17546.1	33.8
	8	-5963.8	351.4	171412.2	-817.7	-17607.2	40.9
	9	-353.4	-497.0	202502.0	1819.7	-2507.2	-108.8
	10	-370.6	-530.5	202298.2	1922.9	-2553.3	-102.9
	11	4061.8	-499.4	223873.4	1822.9	9379.3	-108.8
	12	4044.6	-532.9	223669.6	1926.0	9333.2	-102.8
	13	-429.9	-670.6	194255.4	2374.4	-2710.8	-85.2
	14	-447.1	-704.2	194051.5	2477.5	-2756.9	-79.3
	15	3985.2	-673.0	215626.8	2377.5	9175.6	-85.2
	16	3968.1	-706.6	215422.9	2480.7	9129.5	-79.3
	17	9005.5	31.3	245967.4	167.7	22690.8	-42.1
	18	8982.5	-20.8	243493.4	334.1	22629.7	-35.0
	19	8833.6	507.2	245803.8	-1317.5	22229.2	14.0
	20	8810.6	455.1	243329.8	-1151.1	22168.1	21.1
	21	8948.2	-80.4	245287.8	511.6	22537.1	-22.2
	22	8925.3	-132.5	242813.8	678.0	22476.0	-15.1
	23	8776.3	395.4	245124.2	-973.6	22075.5	33.9
	24	8753.4	343.4	242650.2	-807.2	22014.4	41.0
	25	-926.4	1089.3	201956.7	-3130.8	-4045.9	78.1
	26	-943.6	1055.8	201752.8	-3027.6	-4092.0	84.1
	27	3488.8	1086.9	223328.1	-3127.6	7840.6	78.1
	28	3471.6	1053.4	223124.2	-3024.5	7794.5	84.1
	29	-1002.9	915.7	193710.0	-2576.1	-4249.5	101.7
	30	-1020.1	882.1	193506.2	-2472.9	-4295.7	107.7
	31	3412.3	913.3	215081.4	-2572.9	7636.9	101.7
	32	3395.1	879.7	214877.5	-2469.8	7590.8	107.7
	33	2664.0	320.0	328277.6	-544.2	4437.7	-1.0
	34	2415.1	322.3	307338.6	-545.6	4025.0	-0.9
	35	2402.2	322.5	305582.6	-545.8	4003.6	-0.8
	36	2676.9	319.8	330033.7	-544.0	4459.2	-1.0

25	1	-15917.9	-110.8	182465.3	971.6	-45725.8	-145.7
	2	-15836.1	-176.5	188355.6	1435.0	-45740.1	-121.2
	3	-16544.4	373.5	148237.6	-2293.9	-46761.1	48.2
	4	-16462.6	307.8	154128.0	-1830.5	-46775.4	72.7
	5	-15899.8	-212.6	186778.1	1624.2	-45850.7	-76.9
	6	-15818.0	-278.3	192668.4	2087.5	-45865.1	-52.4

7	-16526.3	271.8	152550.4	-1641.3	-46886.0	117.0
8	-16444.5	206.1	158440.7	-1178.0	-46900.4	141.5
9	-4956.5	-634.4	263221.3	4464.2	-13694.6	-376.4
10	-4951.0	-665.0	264515.1	4659.9	-13732.1	-355.8
11	3889.0	-634.1	302809.5	4459.9	12748.5	-376.3
12	3894.4	-664.6	304103.3	4655.7	12711.0	-355.7
13	-4683.8	-853.4	282855.6	6008.8	-13742.4	-294.8
14	-4678.3	-884.0	284149.4	6204.5	-13779.9	-274.1
15	4161.7	-853.0	322443.8	6004.5	12700.7	-294.7
16	4167.1	-883.6	323737.7	6200.3	12663.2	-274.1
17	13566.9	-109.5	314426.0	957.5	42417.9	-145.5
18	13648.7	-175.2	320316.3	1420.8	42403.5	-121.0
19	12940.5	374.8	280198.4	-2308.0	41382.6	48.5
20	13022.3	309.1	286088.7	-1844.7	41368.2	72.9
21	13585.0	-211.3	318738.8	1610.0	42292.9	-76.7
22	13666.8	-277.0	324629.1	2073.4	42278.6	-52.2
23	12958.6	273.1	284511.2	-1655.5	41257.6	117.2
24	13040.4	207.4	290401.5	-1192.1	41243.3	141.7
25	-7044.7	980.1	149129.1	-6420.8	-17145.7	270.1
26	-7039.2	949.6	150422.9	-6225.0	-17183.2	290.7
27	1800.8	980.5	188717.3	-6425.1	9297.4	270.2
28	1806.2	950.0	190011.1	-6229.3	9259.9	290.8
29	-6772.0	761.1	168763.5	-4876.2	-17193.5	351.7
30	-6766.5	730.6	170057.3	-4680.4	-17231.0	372.3
31	2073.5	761.5	208351.7	-4880.5	9249.6	351.8
32	2078.9	731.0	209645.5	-4684.7	9212.1	372.4
33	-2598.3	86.2	385507.2	-195.9	-4091.6	-3.3
34	-2331.4	85.8	353975.7	-186.8	-3664.8	-3.0
35	-2322.4	85.8	350915.9	-186.4	-3650.8	-2.9
36	-2607.3	86.2	388567.0	-196.2	-4105.6	-3.4

26	1	-28628.6	-52503.1	92232.7	29162.0	-78923.1	-4176.9
	2	-28774.9	-66629.0	119337.5	37502.2	-79274.6	-4181.6
	3	-29266.5	34414.5	-74134.3	-22505.4	-80464.9	-4196.0
	4	-29412.7	20288.6	-47029.6	-14165.2	-80816.4	-4200.7
	5	-28827.5	-66704.3	119200.4	37813.8	-79395.4	-4183.0
	6	-28973.8	-80830.2	146305.2	46154.0	-79746.9	-4187.7
	7	-29465.4	20213.4	-47166.6	-13853.6	-80937.2	-4202.1
	8	-29611.6	6087.5	-20061.9	-5513.4	-81288.7	-4206.8
	9	-7510.9	-141269.0	263779.6	81952.5	-21070.6	-1205.8
	10	-7570.6	-145529.4	271869.9	84548.0	-21212.3	-1207.6
	11	9865.5	-140302.0	263467.2	81278.8	26765.8	1318.9
	12	9805.9	-144562.3	271557.5	83874.3	26624.1	1317.1
	13	-7998.4	-188355.3	354128.7	109753.2	-22242.1	-1221.4
	14	-8058.1	-192615.6	362219.0	112348.7	-22383.8	-1223.3
	15	9378.1	-187388.3	353816.3	109079.4	25594.2	1303.3
	16	9318.4	-191648.6	361906.6	111675.0	25452.5	1301.5
	17	29293.0	-49279.6	91191.4	26916.2	80531.3	4238.8
	18	29146.7	-63405.5	118296.1	35256.4	80179.8	4234.1
	19	28655.1	37638.0	-75175.7	-24751.3	78989.5	4219.8
	20	28508.9	23512.1	-48070.9	-16411.1	78638.0	4215.1
	21	29094.1	-63480.8	118159.0	35568.0	80059.0	4232.7

22	28947.8	-77606.7	145263.8	43908.2	79707.5	4228.0
23	28456.2	23436.9	-48208.0	-16099.5	78517.2	4213.6
24	28310.0	9311.0	-21103.3	-7759.3	78165.8	4209.0
25	-9637.1	148456.5	-290777.1	-90272.3	-26209.9	-1269.4
26	-9696.7	144196.1	-282686.8	-87676.7	-26351.6	-1271.3
27	7739.4	149423.5	-291089.5	-90946.0	21626.4	1255.3
28	7679.8	145163.2	-282999.2	-88350.5	21484.7	1253.5
29	-10124.5	101370.2	-200428.0	-62471.6	-27381.4	-1285.1
30	-10184.2	97109.9	-192337.7	-59876.0	-27523.1	-1286.9
31	7252.0	102337.3	-200740.5	-63145.3	20454.9	1239.7
32	7192.3	98076.9	-192650.1	-60549.8	20313.2	1237.8
33	-556.4	-34096.2	55288.1	17008.5	-1382.4	16.0
34	-388.3	-32609.5	53591.0	16174.1	-954.6	17.8
35	-392.5	-32108.4	52718.1	15933.9	-965.7	17.5
36	-552.2	-34597.3	56160.9	17248.6	-1371.3	16.2

27	1	-27694.7	-187.2	110441.7	487.7	-120588.5	-79.7
	2	-27827.9	-226.0	119479.9	640.1	-121045.2	-66.3
	3	-28301.2	38.0	58291.3	-392.7	-123340.3	26.4
	4	-28434.4	-0.8	67329.5	-240.2	-123797.0	39.8
	5	-27899.4	-218.6	114807.7	598.3	-121520.5	-42.1
	6	-28032.6	-257.5	123846.0	750.7	-121977.2	-28.7
	7	-28505.9	6.6	62657.3	-282.1	-124272.3	64.0
	8	-28639.1	-32.3	71695.6	-129.7	-124729.0	77.4
	9	-7331.5	-409.1	186859.8	1362.7	-31227.2	-206.0
	10	-7392.9	-418.5	188169.6	1395.9	-31506.8	-194.7
	11	9444.5	-403.5	207939.0	1351.7	42439.2	-205.9
	12	9383.0	-413.0	209248.8	1384.8	42159.6	-194.6
	13	-7775.4	-538.6	216987.2	1870.9	-32749.6	-161.3
	14	-7836.9	-548.0	218297.0	1904.1	-33029.2	-150.0
	15	9000.5	-533.0	238066.4	1859.9	40916.8	-161.3
	16	8939.1	-542.4	239376.2	1893.1	40637.2	-150.0
	17	28225.1	-168.6	180705.8	450.8	124966.2	-79.6
	18	28091.9	-207.4	189744.0	603.3	124509.5	-66.2
	19	27618.6	56.6	128555.4	-429.6	122214.4	26.5
	20	27485.4	17.8	137593.6	-277.1	121757.7	39.9
	21	28020.4	-200.1	185071.8	561.4	124034.2	-42.0
	22	27887.2	-238.9	194110.0	713.9	123577.5	-28.6
	23	27413.9	25.1	132921.4	-319.0	121282.4	64.2
	24	27280.7	-13.7	141959.6	-166.5	120825.7	77.6
	25	-9353.1	341.6	13025.1	-1571.9	-40400.0	147.8
	26	-9414.5	332.1	14334.9	-1538.7	-40679.6	159.1
	27	7422.8	347.1	34104.3	-1583.0	33266.4	147.8
	28	7361.4	337.7	35414.1	-1549.8	32986.8	159.1
	29	-9797.1	212.1	43152.5	-1063.7	-41922.4	192.5
	30	-9858.5	202.7	44462.3	-1030.5	-42202.0	203.8
	31	6978.9	217.7	64231.7	-1074.7	31744.0	192.5
	32	6917.4	208.2	65541.5	-1041.6	31464.4	203.8
	33	-510.3	-150.3	201146.7	238.7	-171.6	-1.8
	34	-440.0	-155.6	189133.0	249.1	-100.4	-1.6
	35	-438.4	-156.3	186947.9	250.3	-100.8	-1.6
	36	-511.9	-149.6	203331.7	237.4	-171.1	-1.8

28	1	-25192.6	-58428.7	91360.1	32132.7	-70150.4	-4117.1
	2	-25351.6	-70686.5	115095.4	39374.5	-70528.8	-4122.0
	3	-25953.6	14445.3	-49661.1	-10772.5	-72017.9	-4137.7
	4	-26112.6	2187.5	-25925.8	-3530.7	-72396.4	-4142.6
	5	-25409.7	-62943.0	111101.5	35014.4	-70670.5	-4124.1
	6	-25568.6	-75200.8	134836.8	42256.2	-71048.9	-4129.0
	7	-26170.6	9931.0	-29919.7	-7890.8	-72538.0	-4144.7
	8	-26329.6	-2326.7	-6184.5	-649.0	-72916.4	-4149.6
	9	-5322.3	-125967.2	232437.5	71950.2	-15475.8	-1169.0
	10	-5387.4	-127321.5	238359.9	72814.7	-15631.8	-1171.1
	11	10854.6	-121886.8	230152.6	69551.6	29298.3	1334.7
	12	10789.5	-123241.1	236075.0	70416.1	29142.3	1332.6
	13	-5852.2	-166826.5	311555.1	96089.5	-16737.1	-1185.2
	14	-5917.3	-168180.8	317477.5	96954.0	-16893.1	-1187.3
	15	10324.7	-162746.0	309270.2	93691.0	28036.9	1318.5
	16	10259.6	-164100.3	315192.6	94555.5	27880.9	1316.3
	17	28730.3	-44827.3	83743.8	24137.4	79096.4	4228.3
	18	28571.4	-57085.1	107479.0	31379.2	78718.0	4223.5
	19	27969.4	28046.7	-57277.5	-18767.7	77228.9	4207.7
	20	27810.4	15789.0	-33542.2	-11525.9	76850.5	4202.9
	21	28513.3	-49341.6	103485.1	27019.1	78576.4	4221.3
	22	28354.4	-61599.4	127220.4	34260.9	78198.0	4216.4
	23	27752.4	23532.5	-37536.1	-15886.1	76708.8	4200.7
	24	27593.4	11274.7	-13800.8	-8644.3	76330.4	4195.8
	25	-7858.9	116946.3	-237633.3	-71067.0	-21700.9	-1237.6
	26	-7924.0	115592.0	-231710.9	-70202.5	-21856.9	-1239.7
	27	8318.0	121026.7	-239918.2	-73465.6	23073.2	1266.0
	28	8252.9	119672.4	-233995.8	-72601.1	22917.1	1263.9
	29	-8388.7	76087.0	-158515.7	-46927.7	-22962.3	-1253.8
	30	-8453.8	74732.8	-152593.3	-46063.2	-23118.3	-1255.9
	31	7788.2	80167.5	-160800.6	-49326.3	21811.8	1249.8
	32	7723.1	78813.2	-154878.2	-48461.8	21655.8	1247.7
	33	2581.6	-36846.5	60845.2	18244.8	6627.8	72.0
	34	2410.2	-35402.9	58505.1	17566.8	6185.3	66.2
	35	2316.7	-34729.8	57331.0	17244.8	5947.6	64.9
	36	2675.1	-37519.7	62019.3	18566.8	6865.5	73.3

29	1	-13268.8	-1927.0	336098.4	3845.9	-40499.0	-145.7
	2	-13332.4	-1987.0	338681.9	4154.8	-41758.9	-121.2
	3	-12744.4	-1461.8	320673.2	1306.5	-40448.3	48.2
	4	-12808.1	-1521.8	323256.8	1615.4	-41708.2	72.7
	5	-13393.0	-1960.7	337082.5	4040.5	-40856.3	-76.9
	6	-13456.6	-2020.6	339666.1	4349.4	-42116.1	-52.4
	7	-12868.7	-1495.4	321657.4	1501.1	-40805.5	117.0
	8	-12932.3	-1555.4	324240.9	1810.0	-42065.4	141.5
	9	-4016.0	-2411.4	339762.5	6516.5	-9155.7	-376.4
	10	-4053.3	-2421.5	340057.8	6574.9	-9262.8	-355.8
	11	4413.0	-2411.3	329766.3	6516.6	16608.1	-376.3
	12	4375.8	-2421.4	330061.5	6575.0	16500.9	-355.7
	13	-4228.0	-2611.3	348374.3	7546.1	-13355.2	-294.8
	14	-4265.3	-2621.4	348669.5	7604.5	-13462.4	-274.1

15	4201.0	-2611.2	338378.0	7546.3	12408.5	-294.7
16	4163.7	-2621.3	338673.3	7604.7	12301.4	-274.1
17	14827.9	-1926.5	302777.7	3846.4	45380.2	-145.5
18	14764.3	-1986.5	305361.2	4155.3	44120.3	-121.0
19	15352.3	-1461.3	287352.5	1307.0	45430.9	48.5
20	15288.7	-1521.3	289936.0	1615.9	44171.0	72.9
21	14703.7	-1960.1	303761.8	4041.0	45022.9	-76.7
22	14640.1	-2020.1	306345.3	4349.9	43763.1	-52.2
23	15228.1	-1494.9	288336.7	1501.6	45073.7	117.2
24	15164.5	-1554.9	290920.2	1810.5	43813.8	141.7
25	-2268.1	-860.6	288345.3	-1948.2	-8986.6	270.1
26	-2305.3	-870.7	288640.5	-1889.9	-9093.8	290.7
27	6161.0	-860.5	278349.1	-1948.1	16777.2	270.2
28	6123.7	-870.6	278644.3	-1889.7	16670.0	290.8
29	-2480.1	-1060.5	296957.0	-918.6	-13186.2	351.7
30	-2517.4	-1070.6	297252.3	-860.2	-13293.3	372.3
31	5948.9	-1060.4	286960.8	-918.4	12577.6	351.8
32	5911.7	-1070.5	287256.0	-860.1	12470.4	372.4
33	1839.7	-3224.5	514222.6	5238.4	3158.0	-3.3
34	1602.0	-2820.5	476489.8	4584.2	2760.7	-3.0
35	1591.2	-2820.5	468523.4	4584.2	2742.3	-2.9
36	1850.5	-3224.5	522189.0	5238.4	3176.4	-3.4

30	1	-12735.1	-193.6	336136.7	1323.3	-40346.7	-145.7
	2	-12770.6	-211.6	336030.8	1395.4	-40465.2	-121.2
	3	-13000.9	107.2	336767.4	-960.4	-41244.9	48.2
	4	-13036.4	89.2	336661.5	-888.4	-41363.4	72.7
	5	-12824.8	-193.7	336050.8	1313.6	-40647.8	-76.9
	6	-12860.4	-211.6	335944.9	1385.7	-40766.3	-52.4
	7	-13090.6	107.1	336681.5	-970.2	-41546.0	117.0
	8	-13126.2	89.2	336575.6	-898.1	-41664.5	141.5
	9	-3366.1	-510.3	335857.5	3781.9	-10490.1	-376.4
	10	-3393.1	-510.3	335831.7	3779.0	-10580.5	-355.8
	11	4390.0	-498.9	336168.8	3680.5	14174.9	-376.3
	12	4363.0	-498.9	336143.0	3677.6	14084.6	-355.7
	13	-3484.7	-570.1	335504.6	4022.2	-10885.0	-294.8
	14	-3511.6	-570.1	335478.8	4019.2	-10975.3	-274.1
	15	4271.4	-558.6	335815.9	3920.8	13780.0	-294.7
	16	4244.4	-558.6	335790.1	3917.9	13689.7	-274.1
	17	13118.5	-155.5	337174.3	985.4	41870.1	-145.5
	18	13083.0	-173.4	337068.4	1057.5	41751.6	-121.0
	19	12852.8	145.3	337805.0	-1298.3	40971.9	48.5
	20	12817.2	127.4	337699.1	-1226.3	40853.4	72.9
	21	13028.8	-155.5	337088.3	975.7	41569.0	-76.7
	22	12993.2	-173.5	336982.5	1047.7	41450.5	-52.2
	23	12763.0	145.3	337719.0	-1308.1	40670.8	117.2
	24	12727.4	127.3	337613.2	-1236.0	40552.3	141.7
	25	-4252.1	492.3	337959.8	-3830.6	-13484.1	270.1
	26	-4279.0	492.3	337934.0	-3833.5	-13574.5	290.7
	27	3504.0	503.8	338271.0	-3931.9	11180.9	270.2
	28	3477.1	503.8	338245.3	-3934.8	11090.6	290.8
	29	-4370.7	432.6	337606.9	-3590.3	-13879.0	351.7

30	-4397.6	432.6	337581.1	-3593.2	-13969.3	372.3
31	3385.4	444.0	337918.2	-3691.7	10786.1	351.8
32	3358.5	444.0	337892.4	-3694.6	10695.7	372.4
33	-48.5	-94.5	552989.2	134.1	73.6	-3.3
34	-36.4	-72.1	512390.5	102.4	84.3	-3.0
35	-37.0	-72.0	503698.7	102.1	82.5	-2.9
36	-47.8	-94.6	561681.0	134.4	75.4	-3.4

31	1	-12761.1	-164.7	322941.6	1530.5	-40389.0	-145.7
	2	-12796.5	-153.6	322940.5	1365.2	-40507.0	-121.2
	3	-13029.8	104.7	322967.8	-840.6	-41291.9	48.2
	4	-13065.1	115.8	322966.7	-1005.8	-41409.9	72.7
	5	-12851.9	-107.9	322936.1	994.7	-40691.6	-76.9
	6	-12887.2	-96.8	322935.0	829.4	-40809.7	-52.4
	7	-13120.6	161.5	322962.3	-1376.4	-41594.6	117.0
	8	-13155.9	172.6	322961.3	-1541.6	-41712.6	141.5
	9	-3333.7	-472.7	322930.7	4298.6	-10437.0	-376.4
	10	-3360.9	-455.7	322929.0	4137.8	-10527.8	-355.8
	11	4470.2	-473.2	322948.1	4295.7	14305.9	-376.3
	12	4443.0	-456.2	322946.4	4134.9	14215.1	-355.7
	13	-3451.4	-435.7	322927.0	3747.8	-10830.5	-294.8
	14	-3478.6	-418.7	322925.4	3587.0	-10921.3	-274.1
	15	4352.5	-436.2	322944.4	3744.9	13912.4	-294.7
	16	4325.3	-419.2	322942.8	3584.1	13821.6	-274.1
	17	13251.9	-166.3	322999.7	1520.8	42087.5	-145.5
	18	13216.6	-155.2	322998.6	1355.6	41969.4	-121.0
	19	12983.2	103.1	323025.9	-850.2	41184.6	48.5
	20	12947.9	114.2	323024.8	-1015.5	41066.5	72.9
	21	13161.1	-109.6	322994.2	985.0	41784.8	-76.7
	22	13125.8	-98.5	322993.1	819.8	41666.8	-52.2
	23	12892.4	159.9	323020.4	-1386.0	40881.9	117.2
	24	12857.1	171.0	323019.3	-1551.3	40763.8	141.7
	25	-4229.3	425.5	323018.2	-3604.9	-13446.7	270.1
	26	-4256.5	442.5	323016.5	-3765.7	-13537.5	290.7
	27	3574.6	425.0	323035.6	-3607.8	11296.2	270.2
	28	3547.4	442.0	323033.9	-3768.6	11205.4	290.8
	29	-4347.0	462.5	323014.5	-4155.7	-13840.2	351.7
	30	-4374.2	479.5	323012.9	-4316.5	-13931.0	372.3
	31	3456.9	462.0	323031.9	-4158.6	10902.7	351.8
	32	3429.7	479.0	323030.3	-4319.4	10811.9	372.4
	33	64.9	1.6	532476.5	-14.1	258.8	-3.3
	34	60.0	2.6	492457.5	-11.9	241.6	-3.0
	35	59.8	2.6	483811.8	-12.2	240.6	-2.9
	36	65.0	1.6	541122.3	-13.9	259.8	-3.4

32	1	-12735.0	-183.6	333479.2	1864.2	-40346.2	-145.7
	2	-12769.8	-138.7	333432.3	1464.7	-40463.5	-121.2
	3	-13003.1	147.7	333214.3	-848.3	-41248.2	48.2
	4	-13038.0	192.6	333167.4	-1247.8	-41365.5	72.7
	5	-12825.5	-90.1	333416.9	1093.9	-40648.5	-76.9
	6	-12860.3	-45.1	333370.0	694.5	-40765.8	-52.4
	7	-13093.6	241.2	333152.0	-1618.6	-41550.5	117.0

8	-13128.5	286.1	333105.1	-2018.1	-41667.8	141.5
9	-3322.4	-590.9	333756.6	5222.2	-10418.7	-376.4
10	-3349.6	-562.9	333737.9	4991.1	-10509.4	-355.8
11	4469.6	-591.8	333701.3	5219.6	14304.9	-376.3
12	4442.5	-563.8	333682.7	4988.6	14214.2	-355.7
13	-3438.7	-441.0	333600.3	3890.7	-10809.7	-294.8
14	-3465.8	-413.0	333581.6	3659.6	-10900.4	-274.1
15	4353.4	-442.0	333545.0	3888.1	13913.8	-294.7
16	4326.2	-413.9	333526.3	3657.0	13823.1	-274.1
17	13238.5	-186.7	333295.0	1855.5	42065.7	-145.5
18	13203.6	-141.7	333248.1	1456.1	41948.4	-121.0
19	12970.4	144.6	333030.2	-857.0	41163.7	48.5
20	12935.5	189.6	332983.3	-1256.5	41046.4	72.9
21	13148.0	-93.2	333232.7	1085.3	41763.4	-76.7
22	13113.1	-48.2	333185.8	685.8	41646.1	-52.2
23	12879.9	238.1	332967.9	-1627.3	40861.4	117.2
24	12845.0	283.1	332921.0	-2026.7	40744.1	141.7
25	-4216.2	513.3	332873.8	-3819.5	-13425.3	270.1
26	-4243.3	541.4	332855.1	-4050.6	-13516.0	290.7
27	3575.9	512.4	332818.6	-3822.1	11298.3	270.2
28	3548.7	540.5	332799.9	-4053.2	11207.6	290.8
29	-4332.4	663.2	332717.5	-5151.1	-13816.3	351.7
30	-4359.5	691.3	332698.8	-5382.2	-13907.0	372.3
31	3459.6	662.3	332662.2	-5153.7	10907.2	351.8
32	3432.5	690.4	332643.5	-5384.8	10816.5	372.4
33	72.0	69.2	546888.9	-115.9	270.4	-3.3
34	67.1	69.2	506846.6	-112.9	253.4	-3.0
35	66.9	69.3	498172.5	-113.4	252.3	-2.9
36	72.2	69.1	555563.0	-115.3	271.4	-3.4

33	1	-13000.6	-281.1	318466.1	2350.4	-40780.8	-145.7
	2	-13025.5	-212.6	318820.7	1757.9	-40882.1	-121.2
	3	-13247.7	69.6	320166.9	-705.6	-41647.8	48.2
	4	-13272.7	138.0	320521.4	-1298.2	-41749.1	72.7
	5	-13083.4	-165.2	318922.0	1367.4	-41070.6	-76.9
	6	-13108.4	-96.7	319276.5	774.8	-41171.9	-52.4
	7	-13330.6	185.5	320622.8	-1688.6	-41937.6	117.0
	8	-13355.6	254.0	320977.3	-2281.2	-42038.9	141.5
	9	-3515.7	-731.3	317069.9	6260.9	-10735.6	-376.4
	10	-3540.5	-696.5	317206.7	5966.0	-10822.5	-355.8
	11	4366.9	-732.8	317791.8	6258.9	14136.2	-376.3
	12	4342.1	-698.0	317928.6	5964.0	14049.2	-355.7
	13	-3599.0	-503.1	318251.8	4285.6	-11073.2	-294.8
	14	-3623.8	-468.3	318388.5	3990.7	-11160.2	-274.1
	15	4283.7	-504.6	318973.7	4283.7	13798.5	-294.7
	16	4258.8	-469.8	319110.4	3988.7	13711.6	-274.1
	17	13274.8	-286.1	320872.3	2344.0	42125.0	-145.5
	18	13249.8	-217.6	321226.9	1751.4	42023.7	-121.0
	19	13027.6	64.6	322573.1	-712.1	41258.1	48.5
	20	13002.7	133.1	322927.7	-1304.6	41156.8	72.9
	21	13191.9	-170.1	321328.2	1361.0	41835.2	-76.7
	22	13166.9	-101.7	321682.7	768.4	41733.9	-52.2

23	12944.8	180.6	323029.0	-1695.1	40968.3	117.2
24	12919.8	249.0	323383.5	-2287.7	40867.0	141.7
25	-4339.6	437.7	322739.2	-3926.0	-13625.4	270.1
26	-4364.4	472.5	322876.0	-4220.9	-13712.4	290.7
27	3543.0	436.2	323461.1	-3927.9	11246.3	270.2
28	3518.2	471.0	323597.8	-4222.8	11159.4	290.8
29	-4422.8	665.9	323921.1	-5901.2	-13963.1	351.7
30	-4447.7	700.7	324057.8	-6196.1	-14050.0	372.3
31	3459.8	664.4	324642.9	-5903.2	10908.7	351.8
32	3434.9	699.2	324779.7	-6198.1	10821.7	372.4
33	-70.0	-25.2	529092.6	47.1	38.5	-3.3
34	-73.2	-23.6	488858.2	46.5	24.1	-3.0
35	-66.1	-23.5	480577.8	45.8	35.0	-2.9
36	-77.1	-25.4	537373.0	47.8	27.6	-3.4

34	1	-12120.1	-979.9	238923.4	3843.9	-39338.9	-145.7
	2	-12150.7	-791.6	242944.8	2921.5	-39449.0	-121.2
	3	-12355.9	-125.3	258107.0	-413.7	-40187.9	48.2
	4	-12386.4	63.0	262128.4	-1336.1	-40298.1	72.7
	5	-12200.0	-680.0	243148.3	2379.9	-39623.7	-76.9
	6	-12230.5	-491.7	247169.8	1457.5	-39733.9	-52.4
	7	-12435.7	174.6	262332.0	-1877.8	-40472.8	117.0
	8	-12466.3	362.9	266353.4	-2800.2	-40582.9	141.5
	9	-3573.9	-2093.7	217259.1	9373.0	-10828.9	-376.4
	10	-3597.9	-2003.8	218526.6	8933.8	-10914.3	-355.8
	11	3509.0	-2095.5	220627.3	9371.3	12734.5	-376.3
	12	3485.1	-2005.5	221894.8	8932.1	12649.0	-355.7
	13	-3675.8	-1466.0	230663.9	6298.3	-11196.1	-294.8
	14	-3699.7	-1376.0	231931.3	5859.1	-11281.6	-274.1
	15	3407.2	-1467.7	234032.0	6296.6	12367.3	-294.7
	16	3383.2	-1377.7	235299.5	5857.4	12281.8	-274.1
	17	11489.7	-985.7	250150.7	3838.4	39205.7	-145.5
	18	11459.1	-797.4	254172.1	2915.9	39095.6	-121.0
	19	11253.9	-131.1	269334.3	-419.3	38356.7	48.5
	20	11223.4	57.2	273355.8	-1341.7	38246.5	72.9
	21	11409.8	-685.8	254375.6	2374.3	38920.9	-76.7
	22	11379.3	-497.5	258397.1	1451.9	38810.7	-52.2
	23	11174.1	168.8	273559.3	-1883.4	38071.8	117.2
	24	11143.5	357.1	277580.7	-2805.8	37961.7	141.7
	25	-4359.8	755.0	281204.5	-4819.2	-13659.0	270.1
	26	-4383.8	844.9	282472.0	-5258.5	-13744.5	290.7
	27	2723.1	753.2	284572.7	-4820.9	9904.4	270.2
	28	2699.2	843.2	285840.2	-5260.1	9818.9	290.8
	29	-4461.7	1382.7	294609.3	-7893.9	-14026.3	351.7
	30	-4485.6	1472.7	295876.8	-8333.1	-14111.7	372.3
	31	2621.3	1381.0	297977.5	-7895.6	9537.1	351.8
	32	2597.3	1470.9	299245.0	-8334.8	9451.7	372.4
	33	-978.7	-488.4	421877.2	812.4	-1445.9	-3.3
	34	-868.8	-458.4	387734.6	764.6	-1275.6	-3.0
	35	-855.8	-455.3	383985.2	759.0	-1255.1	-2.9
	36	-991.7	-491.5	425626.7	818.0	-1466.4	-3.4

36	1	-4860.1	-986.3	118433.9	1851.4	-15230.9	-42.1
	2	-4920.9	-1027.2	117753.2	1999.4	-15405.6	-35.1
	3	-5324.4	-625.3	115392.2	556.2	-16581.2	13.9
	4	-5385.2	-666.2	114711.4	704.2	-16755.8	21.0
	5	-5011.9	-1070.4	117574.9	2149.3	-15671.3	-22.2
	6	-5072.7	-1111.3	116894.1	2297.3	-15846.0	-15.2
	7	-5476.2	-709.4	114533.1	854.1	-17021.6	33.8
	8	-5537.0	-750.3	113852.4	1002.0	-17196.2	40.9
	9	149.0	-1393.1	137069.9	3299.8	-891.8	-108.8
	10	103.4	-1418.3	136812.2	3389.2	-1023.9	-102.9
	11	3962.8	-1396.5	149578.8	3304.7	10006.1	-108.8
	12	3917.3	-1421.8	149321.1	3394.0	9873.9	-102.8
	13	-53.7	-1529.5	134800.8	3793.0	-1474.0	-85.2
	14	-99.3	-1554.8	134543.1	3882.4	-1606.2	-79.3
	15	3760.1	-1533.0	147309.8	3797.9	9423.8	-85.2
	16	3714.6	-1558.2	147052.0	3887.3	9291.7	-79.3
	17	7852.8	-997.7	160130.4	1867.6	21095.3	-42.1
	18	7792.0	-1038.6	159449.6	2015.6	20920.6	-35.0
	19	7388.5	-636.6	157088.6	572.4	19745.0	14.0
	20	7327.7	-677.6	156407.9	720.4	19570.4	21.1
	21	7701.0	-1081.7	159271.3	2165.5	20654.9	-22.2
	22	7640.2	-1122.7	158590.6	2313.5	20480.2	-15.1
	23	7236.7	-720.7	156229.6	870.3	19304.6	33.9
	24	7175.9	-761.7	155548.8	1018.3	19129.9	41.0
	25	-1398.7	-189.8	126930.7	-1017.6	-5392.6	78.1
	26	-1444.3	-215.0	126673.0	-928.2	-5524.8	84.1
	27	2415.1	-193.2	139439.6	-1012.7	5505.2	78.1
	28	2369.6	-218.4	139181.9	-923.3	5373.1	84.1
	29	-1601.4	-326.2	124661.6	-524.4	-5974.9	101.7
	30	-1647.0	-351.4	124403.9	-435.0	-6107.0	107.7
	31	2212.4	-329.6	137170.6	-519.5	4923.0	101.7
	32	2166.9	-354.8	136912.8	-430.1	4790.8	107.7
	33	1975.2	-1426.5	212583.0	2341.0	3312.6	-1.0
	34	1810.0	-1422.7	200422.1	2336.9	3036.7	-0.9
	35	1801.6	-1422.3	199389.6	2336.5	3022.6	-0.8
	36	1983.6	-1426.8	213615.5	2341.4	3326.6	-1.0

37	1	-5308.8	-105.7	193377.1	370.0	-15966.5	-42.1
	2	-5356.6	-122.5	194746.5	485.5	-16119.9	-35.1
	3	-5700.1	16.0	193494.3	-442.3	-17196.7	13.9
	4	-5748.0	-0.8	194863.6	-326.7	-17350.1	21.0
	5	-5437.1	-131.0	193769.2	531.8	-16368.4	-22.2
	6	-5485.0	-147.7	195138.6	647.3	-16521.7	-15.2
	7	-5828.5	-9.3	193886.4	-280.5	-17598.6	33.8
	8	-5876.4	-26.0	195255.8	-164.9	-17751.9	40.9
	9	-850.7	-236.6	187350.1	1237.7	-2534.7	-108.8
	10	-889.2	-244.2	187467.8	1286.2	-2655.3	-102.9
	11	2569.8	-236.3	183553.0	1236.2	7715.3	-108.8
	12	2531.3	-243.9	183670.7	1284.8	7594.7	-102.8
	13	-1010.3	-292.4	191914.7	1622.9	-3045.9	-85.2
	14	-1048.8	-300.0	192032.4	1671.5	-3166.4	-79.3
	15	2410.1	-292.1	188117.7	1621.5	7204.1	-85.2

16	2371.6	-299.7	188235.3	1670.1	7083.6	-79.3
17	6092.8	-104.6	180720.2	365.2	18200.1	-42.1
18	6044.9	-121.4	182089.6	480.8	18046.8	-35.0
19	5701.4	17.1	180837.3	-447.1	16969.9	14.0
20	5653.5	0.4	182206.7	-331.5	16816.6	21.1
21	5964.4	-129.9	181112.3	527.0	17798.3	-22.2
22	5916.5	-146.6	182481.7	642.6	17644.9	-15.1
23	5573.0	-8.2	181229.5	-285.3	16568.1	33.9
24	5525.1	-24.9	182598.8	-169.7	16414.7	41.0
25	-2155.2	169.1	187740.6	-1469.8	-6635.4	78.1
26	-2193.8	161.5	187858.3	-1421.2	-6755.9	84.1
27	1265.2	169.4	183943.6	-1471.2	3614.6	78.1
28	1226.7	161.8	184061.2	-1422.7	3494.1	84.1
29	-2314.9	113.3	192305.3	-1084.5	-7146.5	101.7
30	-2353.4	105.7	192422.9	-1036.0	-7267.1	107.7
31	1105.6	113.6	188508.2	-1085.9	3103.5	101.7
32	1067.1	106.0	188625.8	-1037.4	2982.9	107.7
33	224.1	-113.1	301034.7	173.2	434.4	-1.0
34	187.2	-112.9	278961.3	174.9	369.4	-0.9
35	185.8	-112.8	276822.5	175.0	366.7	-0.8
36	225.5	-113.1	303173.5	173.1	437.1	-1.0

38	1	-5412.0	-49.9	198520.8	258.0	-16137.0	-42.1
	2	-5462.8	-64.7	198527.6	372.0	-16295.0	-35.1
	3	-5813.7	41.0	198431.8	-420.4	-17384.3	13.9
	4	-5864.5	26.2	198438.7	-306.4	-17542.3	21.0
	5	-5543.7	-64.4	198539.4	360.0	-16544.3	-22.2
	6	-5594.5	-79.3	198546.3	474.0	-16702.4	-15.2
	7	-5945.5	26.5	198450.4	-318.5	-17791.6	33.8
	8	-5996.2	11.6	198457.3	-204.4	-17949.7	40.9
	9	-906.7	-143.1	198459.2	950.1	-2626.8	-108.8
	10	-946.2	-147.5	198464.8	980.7	-2749.0	-102.9
	11	2542.0	-142.6	198318.7	948.3	7670.1	-108.8
	12	2502.5	-147.0	198324.3	978.9	7547.9	-102.8
	13	-1075.8	-192.7	198482.1	1330.2	-3153.7	-85.2
	14	-1115.3	-197.0	198487.7	1360.8	-3275.9	-79.3
	15	2372.9	-192.2	198341.6	1328.5	7143.2	-85.2
	16	2333.4	-196.5	198347.2	1359.1	7021.0	-79.3
	17	6083.8	-48.3	198052.5	252.1	18186.2	-42.1
	18	6033.0	-63.1	198059.3	366.1	18028.1	-35.0
	19	5682.0	42.6	197963.5	-426.3	16938.9	14.0
	20	5631.3	27.8	197970.4	-312.3	16780.8	21.1
	21	5952.1	-62.8	198071.1	354.1	17778.8	-22.2
	22	5901.3	-77.7	198078.0	468.1	17620.8	-15.1
	23	5550.3	28.1	197982.1	-324.4	16531.5	33.9
	24	5499.6	13.2	197989.0	-210.3	16373.5	41.0
	25	-2245.8	159.9	198162.5	-1311.4	-6784.5	78.1
	26	-2285.3	155.5	198168.1	-1280.8	-6906.7	84.1
	27	1202.9	160.3	198022.0	-1313.1	3512.4	78.1
	28	1163.4	156.0	198027.6	-1282.5	3390.2	84.1
	29	-2414.9	110.3	198185.5	-931.2	-7311.4	101.7
	30	-2454.5	105.9	198191.1	-900.6	-7433.6	107.7

	31	1033.8	110.8	198045.0	-933.0	2985.5	101.7
	32	994.3	106.4	198050.6	-902.4	2863.3	107.7
	33	56.2	-27.8	318143.7	34.5	158.3	-1.0
	34	55.0	-27.9	294436.1	36.5	152.1	-0.9
	35	54.6	-27.9	292118.8	36.6	151.1	-0.8
	36	56.5	-27.8	320460.9	34.4	159.3	-1.0
39	1	-5394.9	-234.2	203352.1	557.6	-16108.6	-42.1
	2	-5444.9	-251.5	203460.1	665.3	-16265.6	-35.1
	3	-5793.6	-132.6	202704.3	-78.8	-17351.0	13.9
	4	-5843.6	-149.9	202812.3	28.9	-17507.9	21.0
	5	-5525.6	-244.4	203411.9	615.3	-16514.4	-22.2
	6	-5575.7	-261.7	203519.9	723.0	-16671.3	-15.2
	7	-5924.3	-142.8	202764.2	-21.2	-17756.7	33.8
	8	-5974.4	-160.1	202872.1	86.5	-17913.7	40.9
	9	-920.3	-335.4	204011.2	1192.3	-2649.1	-108.8
	10	-959.5	-338.5	204029.2	1209.6	-2770.8	-102.9
	11	2505.5	-334.8	204018.5	1190.3	7610.0	-108.8
	12	2466.3	-337.8	204036.5	1207.5	7488.3	-102.8
	13	-1087.1	-393.1	204371.2	1551.3	-3172.2	-85.2
	14	-1126.3	-396.1	204389.2	1568.6	-3293.9	-79.3
	15	2338.7	-392.4	204378.5	1549.3	7087.0	-85.2
	16	2299.5	-395.5	204396.5	1566.6	6965.2	-79.3
	17	6024.5	-232.0	203376.4	550.9	18088.6	-42.1
	18	5974.5	-249.3	203484.4	658.6	17931.7	-35.0
	19	5625.8	-130.4	202728.7	-85.6	16846.3	14.0
	20	5575.7	-147.7	202836.6	22.1	16689.3	21.1
	21	5893.8	-242.2	203436.2	608.5	17682.9	-22.2
	22	5843.7	-259.5	203544.2	716.2	17525.9	-15.1
	23	5495.0	-140.6	202788.5	-27.9	16440.5	33.9
	24	5445.0	-157.9	202896.5	79.8	16283.6	41.0
	25	-2249.3	3.4	201852.1	-929.1	-6790.3	78.1
	26	-2288.6	0.3	201870.0	-911.9	-6912.0	84.1
	27	1176.5	4.0	201859.4	-931.2	3468.9	78.1
	28	1137.2	1.0	201877.3	-913.9	3347.1	84.1
	29	-2416.2	-54.3	202212.0	-570.1	-7313.4	101.7
	30	-2455.4	-57.3	202230.0	-552.8	-7435.1	107.7
	31	1009.6	-53.6	202219.3	-572.2	2945.8	101.7
	32	970.4	-56.7	202237.3	-554.9	2824.1	107.7
	33	34.6	-272.7	324735.3	441.2	122.9	-1.0
	34	32.1	-274.0	301141.9	445.0	114.4	-0.9
	35	31.9	-274.1	298838.5	445.1	113.8	-0.8
	36	34.8	-272.7	327038.7	441.1	123.6	-1.0
40	1	-5414.8	-58.6	198486.3	268.6	-16141.4	-42.1
	2	-5464.8	-68.6	198500.5	337.2	-16298.2	-35.1
	3	-5814.0	13.3	198382.3	-288.2	-17384.6	13.9
	4	-5864.0	3.2	198396.5	-219.6	-17541.4	21.0
	5	-5545.7	-63.4	198486.8	310.8	-16547.4	-22.2
	6	-5595.7	-73.5	198501.0	379.4	-16704.2	-15.2
	7	-5944.9	8.4	198382.8	-246.0	-17790.6	33.8
	8	-5994.9	-1.6	198397.0	-177.4	-17947.4	40.9

9	-924.1	-132.2	198558.4	852.9	-2655.3	-108.8
10	-963.3	-133.7	198558.6	865.6	-2777.1	-102.9
11	2515.2	-132.2	198530.3	853.0	7626.0	-108.8
12	2476.0	-133.6	198530.4	865.6	7504.2	-102.8
13	-1090.6	-165.7	198605.8	1081.7	-3178.0	-85.2
14	-1129.9	-167.2	198605.9	1094.3	-3299.8	-79.3
15	2348.7	-165.6	198577.6	1081.7	7103.3	-85.2
16	2309.4	-167.1	198577.8	1094.3	6981.6	-79.3
17	6049.5	-58.3	198392.5	268.6	18129.6	-42.1
18	5999.5	-68.3	198406.7	337.2	17972.9	-35.0
19	5650.2	13.5	198288.5	-288.2	16886.5	14.0
20	5600.3	3.5	198302.7	-219.6	16729.7	21.1
21	5918.6	-63.1	198393.0	310.8	17723.7	-22.2
22	5868.6	-73.2	198407.2	379.4	17566.9	-15.1
23	5519.4	8.7	198289.0	-246.0	16480.5	33.9
24	5469.4	-1.3	198303.2	-177.4	16323.7	41.0
25	-2254.8	107.2	198211.8	-1003.1	-6799.3	78.1
26	-2294.1	105.7	198211.9	-990.5	-6921.1	84.1
27	1184.5	107.3	198183.6	-1003.1	3482.0	78.1
28	1145.2	105.8	198183.8	-990.5	3360.2	84.1
29	-2421.4	73.7	198259.1	-774.4	-7321.9	101.7
30	-2460.6	72.2	198259.2	-761.8	-7443.7	107.7
31	1017.9	73.8	198231.0	-774.4	2959.4	101.7
32	978.7	72.3	198231.1	-761.7	2837.6	107.7
33	37.4	-41.8	318164.4	62.0	127.5	-1.0
34	34.9	-41.9	294542.1	63.6	119.0	-0.9
35	34.7	-41.9	292235.9	63.5	118.3	-0.8
36	37.6	-41.9	320470.5	62.0	128.2	-1.0

41	1	-5410.0	-250.9	203526.8	663.5	-16133.5	-42.1
	2	-5460.1	-255.4	203536.3	681.6	-16290.6	-35.1
	3	-5809.4	-166.3	203102.0	80.3	-17376.9	13.9
	4	-5859.5	-170.8	203111.6	98.4	-17534.0	21.0
	5	-5541.0	-250.8	203592.0	661.0	-16539.6	-22.2
	6	-5591.1	-255.3	203601.5	679.1	-16696.6	-15.2
	7	-5940.3	-166.2	203167.3	77.8	-17783.0	33.8
	8	-5990.4	-170.7	203176.8	95.9	-17940.0	40.9
	9	-922.7	-340.4	204034.1	1291.6	-2653.1	-108.8
	10	-962.0	-340.4	204053.7	1290.9	-2774.9	-102.9
	11	2513.4	-337.1	204034.3	1265.7	7622.9	-108.8
	12	2474.1	-337.1	204053.8	1264.9	7501.1	-102.8
	13	-1089.7	-355.4	204065.9	1351.8	-3176.5	-85.2
	14	-1129.0	-355.4	204085.4	1351.1	-3298.4	-79.3
	15	2346.3	-352.1	204066.0	1325.9	7099.5	-85.2
	16	2307.1	-352.1	204085.6	1325.1	6977.7	-79.3
	17	6043.6	-239.7	203527.2	577.0	18120.0	-42.1
	18	5993.5	-244.2	203536.8	595.0	17962.9	-35.0
	19	5644.2	-155.1	203102.5	-6.2	16876.6	14.0
	20	5594.1	-159.6	203112.0	11.9	16719.5	21.1
	21	5912.6	-239.7	203592.5	574.5	17713.9	-22.2
	22	5862.5	-244.2	203602.0	592.5	17556.8	-15.1
	23	5513.3	-155.1	203167.8	-8.7	16470.5	33.9

24	5463.2	-159.6	203177.3	9.4	16313.4	41.0
25	-2253.9	-58.4	202618.5	-652.3	-6797.8	78.1
26	-2293.2	-58.4	202638.1	-653.0	-6919.6	84.1
27	1182.2	-55.0	202618.6	-678.2	3478.3	78.1
28	1142.9	-55.0	202638.2	-679.0	3356.4	84.1
29	-2420.9	-73.4	202650.2	-592.0	-7321.2	101.7
30	-2460.2	-73.4	202669.8	-592.8	-7443.0	107.7
31	1015.1	-70.1	202650.4	-618.0	2954.9	101.7
32	975.9	-70.1	202669.9	-618.7	2833.0	107.7
33	36.3	-287.3	325120.3	469.6	125.6	-1.0
34	33.8	-287.5	301499.4	471.1	117.3	-0.9
35	33.6	-287.4	299186.2	470.9	116.6	-0.8
36	36.5	-287.4	327433.6	469.8	126.3	-1.0

42	1	-5414.5	-74.5	198484.1	434.9	-16141.0	-42.1
	2	-5464.4	-71.5	198483.2	393.6	-16297.6	-35.1
	3	-5813.2	-3.4	198411.6	-160.0	-17383.3	13.9
	4	-5863.1	-0.4	198410.6	-201.3	-17539.9	21.0
	5	-5545.2	-59.5	198478.9	300.6	-16546.7	-22.2
	6	-5595.1	-56.5	198478.0	259.4	-16703.3	-15.2
	7	-5944.0	11.6	198406.3	-294.3	-17789.0	33.8
	8	-5993.8	14.6	198405.4	-335.6	-17945.7	40.9
	9	-924.6	-155.9	198562.7	1129.3	-2656.2	-108.8
	10	-963.8	-151.4	198561.2	1089.1	-2778.0	-102.9
	11	2514.5	-156.0	198558.2	1128.6	7624.8	-108.8
	12	2475.3	-151.5	198556.6	1088.4	7503.1	-102.8
	13	-1090.9	-145.9	198559.6	991.7	-3178.4	-85.2
	14	-1130.1	-141.4	198558.0	951.4	-3300.1	-79.3
	15	2348.3	-146.0	198555.0	991.0	7102.7	-85.2
	16	2309.1	-141.5	198553.5	950.7	6981.0	-79.3
	17	6049.2	-74.9	198468.9	432.6	18129.2	-42.1
	18	5999.3	-71.9	198468.0	391.3	17972.6	-35.0
	19	5650.5	-3.8	198396.3	-162.3	16886.9	14.0
	20	5600.6	-0.8	198395.4	-203.6	16730.2	21.1
	21	5918.5	-59.9	198463.7	298.3	17723.5	-22.2
	22	5868.6	-56.9	198462.8	257.0	17566.9	-15.1
	23	5519.8	11.2	198391.1	-296.6	16481.2	33.9
	24	5469.9	14.2	198390.2	-337.9	16324.5	41.0
	25	-2253.7	81.2	198320.8	-853.7	-6797.4	78.1
	26	-2292.9	85.7	198319.3	-894.0	-6919.1	84.1
	27	1185.5	81.1	198316.3	-854.4	3483.7	78.1
	28	1146.2	85.6	198314.7	-894.7	3361.9	84.1
	29	-2419.9	91.2	198317.7	-991.3	-7319.5	101.7
	30	-2459.1	95.8	198316.1	-1031.6	-7441.2	107.7
	31	1019.2	91.1	198313.1	-992.1	2961.5	101.7
	32	980.0	95.6	198311.6	-1032.3	2839.8	107.7
	33	38.2	-42.2	318233.4	66.8	128.8	-1.0
	34	35.6	-42.2	294606.2	67.8	120.2	-0.9
	35	35.4	-42.2	292299.0	67.8	119.5	-0.8
	36	38.4	-42.2	320540.6	66.9	129.5	-1.0

43	1	-5396.6	-273.6	204185.4	838.9	-16111.4	-42.1
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2	-5446.6	-259.7	204200.8	735.3	-16268.3	-35.1
3	-5795.0	-174.5	204005.5	137.9	-17353.2	13.9
4	-5844.9	-160.6	204020.9	34.4	-17510.1	21.0
5	-5527.2	-245.5	204179.6	639.7	-16517.0	-22.2
6	-5577.2	-231.5	204195.0	536.2	-16673.8	-15.2
7	-5925.6	-146.3	203999.7	-61.3	-17758.8	33.8
8	-5975.6	-132.4	204015.1	-164.8	-17915.6	40.9
9	-918.5	-395.9	204359.4	1707.0	-2646.2	-108.8
10	-957.7	-387.5	204357.7	1647.3	-2767.8	-102.9
11	2510.7	-396.2	204345.8	1706.4	7618.6	-108.8
12	2471.5	-387.7	204344.0	1646.7	7496.9	-102.8
13	-1085.1	-349.5	204410.8	1361.9	-3168.9	-85.2
14	-1124.3	-341.1	204409.0	1302.2	-3290.6	-79.3
15	2344.1	-349.8	204397.1	1361.3	7095.8	-85.2
16	2304.9	-341.3	204395.4	1301.6	6974.2	-79.3
17	6034.1	-274.5	204140.0	836.9	18104.3	-42.1
18	5984.1	-260.5	204155.4	733.4	17947.5	-35.0
19	5635.7	-175.3	203960.2	136.0	16862.5	14.0
20	5585.7	-161.4	203975.5	32.4	16705.7	21.1
21	5903.4	-246.3	204134.2	637.7	17698.7	-22.2
22	5853.5	-232.4	204149.6	534.2	17541.9	-15.1
23	5505.1	-147.2	203954.3	-63.2	16457.0	33.9
24	5455.1	-133.3	203969.7	-166.7	16300.1	41.0
25	-2246.4	-65.5	203759.8	-629.5	-6785.5	78.1
26	-2285.6	-57.1	203758.0	-689.2	-6907.1	84.1
27	1182.8	-65.8	203746.2	-630.0	3479.3	78.1
28	1143.6	-57.3	203744.4	-689.8	3357.6	84.1
29	-2413.0	-19.2	203811.1	-974.6	-7308.2	101.7
30	-2452.2	-10.7	203809.4	-1034.3	-7429.9	107.7
31	1016.2	-19.4	203797.5	-975.2	2956.5	101.7
32	977.0	-11.0	203795.7	-1034.9	2834.9	107.7
33	39.9	-284.7	326279.3	469.6	131.5	-1.0
34	37.1	-285.0	302571.5	470.8	122.8	-0.9
35	36.9	-284.9	300250.4	470.5	122.0	-0.8
36	40.1	-284.8	328600.4	469.9	132.2	-1.0

44	1	-5558.3	-97.1	195651.3	628.5	-16377.7	-42.1
	2	-5632.2	-71.5	194568.0	467.1	-16574.5	-35.1
	3	-6027.1	29.6	190593.4	-195.4	-17733.9	13.9
	4	-6101.0	55.2	189510.1	-356.8	-17930.7	21.0
	5	-5712.8	-54.8	194423.7	362.2	-16822.7	-22.2
	6	-5786.8	-29.1	193340.4	200.9	-17019.5	-15.2
	7	-6181.6	71.9	189365.8	-461.7	-18178.9	33.8
	8	-6255.6	97.5	188282.5	-623.0	-18375.7	40.9
	9	-904.1	-260.8	203245.0	1684.8	-2623.8	-108.8
	10	-950.4	-248.1	202876.8	1604.9	-2757.3	-102.9
	11	2588.9	-261.5	203981.1	1684.8	7745.8	-108.8
	12	2542.5	-248.8	203612.8	1604.9	7612.3	-102.8
	13	-1150.6	-175.3	199634.0	1147.0	-3279.7	-85.2
	14	-1197.0	-162.6	199265.8	1067.1	-3413.2	-79.3
	15	2342.3	-176.0	200370.1	1147.0	7089.8	-85.2
	16	2295.9	-163.3	200001.8	1067.1	6956.3	-79.3

17	6084.8	-99.4	198104.7	628.6	18187.5	-42.1
18	6010.8	-73.7	197021.4	467.2	17990.7	-35.0
19	5616.0	27.3	193046.8	-195.4	16831.2	14.0
20	5542.0	53.0	191963.5	-356.7	16634.5	21.1
21	5930.2	-57.0	196877.2	362.3	17742.5	-22.2
22	5856.2	-31.4	195793.9	201.0	17545.7	-15.1
23	5461.4	69.7	191819.3	-461.6	16386.2	33.9
24	5387.4	95.3	190736.0	-623.0	16189.5	41.0
25	-2466.7	161.5	186385.4	-1061.6	-7144.6	78.1
26	-2513.1	174.2	186017.2	-1141.5	-7278.1	84.1
27	1026.2	160.8	187121.5	-1061.6	3225.0	78.1
28	979.8	173.5	186753.2	-1141.5	3091.5	84.1
29	-2713.3	247.0	182774.4	-1599.4	-7800.5	101.7
30	-2759.7	259.7	182406.1	-1679.3	-7934.0	107.7
31	779.6	246.3	183510.4	-1599.4	2569.0	101.7
32	733.2	259.0	183142.2	-1679.3	2435.5	107.7
33	-135.3	3.8	309973.0	-4.9	-156.5	-1.0
34	-126.4	0.8	286891.6	0.6	-146.0	-0.9
35	-125.1	0.6	284651.5	0.8	-144.3	-0.8
36	-136.6	4.1	312213.1	-5.1	-158.2	-1.0

45	1	-5280.0	-312.6	139952.0	1071.2	-15918.9	-42.1
	2	-5323.6	-165.1	128972.2	675.4	-16065.0	-35.1
	3	-5626.8	367.7	87996.3	-760.5	-17075.8	13.9
	4	-5670.4	515.3	77016.5	-1156.3	-17222.0	21.0
	5	-5394.1	-78.6	122850.8	443.7	-16297.2	-22.2
	6	-5437.6	69.0	111871.0	47.9	-16443.4	-15.2
	7	-5740.9	601.8	70895.2	-1388.0	-17454.2	33.8
	8	-5784.5	749.4	59915.4	-1783.8	-17600.3	40.9
	9	-1291.3	-1197.6	207042.1	3450.7	-3258.8	-108.8
	10	-1325.5	-1127.4	201911.7	3262.4	-3372.3	-102.9
	11	1771.5	-1198.5	206742.8	3450.9	6403.0	-108.8
	12	1737.3	-1128.2	201612.5	3262.7	6289.5	-102.8
	13	-1436.4	-705.7	170442.8	2131.3	-3746.0	-85.2
	14	-1470.6	-635.5	165312.5	1943.1	-3859.5	-79.3
	15	1626.4	-706.5	170143.6	2131.6	5915.8	-85.2
	16	1592.2	-636.3	165013.2	1943.3	5802.3	-79.3
	17	4929.3	-315.4	138954.4	1072.0	16287.3	-42.1
	18	4885.8	-167.8	127974.6	676.2	16141.1	-35.0
	19	4582.5	365.0	86998.7	-759.7	15130.3	14.0
	20	4538.9	512.6	76019.0	-1155.5	14984.1	21.1
	21	4815.2	-81.3	121853.3	444.5	15908.9	-22.2
	22	4771.7	66.3	110873.5	48.7	15762.7	-15.1
	23	4468.4	599.0	69897.6	-1387.2	14751.9	33.9
	24	4424.9	746.6	58917.8	-1783.0	14605.8	41.0
	25	-2447.3	1070.3	33856.6	-2655.1	-7115.4	78.1
	26	-2481.6	1140.5	28726.2	-2843.3	-7228.9	84.1
	27	615.5	1069.5	33557.3	-2654.8	2546.5	78.1
	28	581.2	1139.7	28427.0	-2843.1	2433.0	84.1
	29	-2592.5	1562.2	-2742.7	-3974.5	-7602.6	101.7
	30	-2626.7	1632.4	-7873.0	-4162.7	-7716.1	107.7
	31	470.3	1561.4	-3041.9	-3974.2	2059.3	101.7

32	436.1	1631.6	-8172.3	-4162.5	1945.8	107.7
33	-735.4	378.7	159812.8	-622.0	-1142.8	-1.0
34	-676.6	335.0	148023.0	-549.4	-1050.4	-0.9
35	-673.6	331.4	146865.2	-543.6	-1045.9	-0.8
36	-738.3	382.3	160970.6	-627.8	-1147.2	-1.0

47	1	-11851.6	-39001.2	-89065.2	132083.8	-42611.8	1533.4
	2	-10996.0	-25116.4	-42764.6	115516.1	-39864.9	1541.4
	3	-11814.9	23286.5	126578.8	55786.7	-42444.1	1595.8
	4	-10959.3	37171.3	172879.4	39219.1	-39697.3	1603.8
	5	-11588.4	-16860.1	-15695.3	105433.2	-41760.4	1553.9
	6	-10732.8	-2975.3	30605.3	88865.5	-39013.6	1561.9
	7	-11551.7	45427.6	199948.6	29136.2	-41592.7	1616.3
	8	-10696.1	59312.4	246249.3	12568.5	-38845.9	1624.3
	9	-5070.3	-120247.2	-367475.5	232231.9	-17563.7	346.8
	10	-4991.4	-113604.9	-345464.6	224236.8	-17308.3	353.0
	11	1555.5	-120356.5	-366179.3	233203.7	6565.1	-605.9
	12	1634.4	-113714.2	-344168.3	225208.5	6820.5	-599.7
	13	-2218.3	-73964.6	-213140.2	177006.4	-8407.6	373.6
	14	-2139.4	-67322.3	-191129.2	169011.2	-8152.2	379.7
	15	4407.5	-74073.9	-211843.9	177978.2	15721.2	-579.1
	16	4486.5	-67431.6	-189833.0	169983.0	15976.6	-573.0
	17	10234.6	-39365.4	-84744.5	135323.0	37817.7	-1642.3
	18	11090.2	-25480.6	-38443.8	118755.4	40564.5	-1634.3
	19	10271.3	22922.3	130899.5	59026.0	37985.3	-1579.9
	20	11126.9	36807.1	177200.1	42458.4	40732.1	-1571.9
	21	10497.7	-17224.4	-11374.6	108672.5	38669.0	-1621.8
	22	11353.3	-3339.6	34926.0	92104.8	41415.9	-1613.8
	23	10534.4	45063.4	204269.4	32375.4	38836.7	-1559.4
	24	11390.0	58948.1	250570.0	15807.8	41583.5	-1551.4
	25	-4948.0	87378.5	351337.7	-22091.5	-17004.8	555.0
	26	-4869.1	94020.8	373348.7	-30086.6	-16749.4	561.1
	27	1677.8	87269.2	352633.9	-21119.7	7124.0	-397.7
	28	1756.8	93911.5	374644.9	-29114.8	7379.4	-391.6
	29	-2096.0	133661.1	505673.1	-77317.0	-7848.8	581.7
	30	-2017.0	140303.5	527684.0	-85312.2	-7593.4	587.8
	31	4529.9	133551.9	506969.3	-76345.2	16280.1	-371.0
	32	4608.8	140194.2	528980.3	-84340.4	16535.5	-364.9
	33	-357.6	14812.2	119820.9	109690.0	-808.2	-12.7
	34	-391.5	14361.1	116089.5	106388.1	-897.0	-12.0
	35	-365.1	14289.5	115582.6	105875.9	-831.6	-11.9
	36	-383.9	14883.8	120327.8	110202.2	-873.6	-12.8

48	1	-11468.4	-61741.9	264604.1	-26123.1	-41691.2	-1743.9
	2	-10904.0	-47307.1	214130.6	-39074.9	-39623.4	-1715.3
	3	-11454.3	3241.2	28888.0	-84826.0	-41575.2	-1517.9
	4	-10889.8	17676.0	-21585.5	-97777.9	-39507.4	-1489.3
	5	-11300.5	-38707.5	184756.0	-47004.4	-41058.8	-1671.6
	6	-10736.0	-24272.7	134282.5	-59956.2	-38991.0	-1643.1
	7	-11286.3	26275.6	-50960.1	-105707.3	-40942.8	-1445.6
	8	-10721.8	40710.4	-101433.6	-118659.1	-38875.1	-1417.1
	9	-4449.5	-146708.1	571023.1	49603.5	-16104.4	-904.7

10	-4399.1	-139797.8	547068.7	43339.1	-15914.7	-883.1
11	2095.0	-147028.8	571432.9	49121.6	7821.1	47.4
12	2145.4	-140118.5	547478.4	42857.3	8010.8	69.1
13	-2568.0	-98592.1	402778.2	6430.7	-9211.8	-809.6
14	-2517.6	-91681.8	378823.8	166.3	-9022.1	-787.9
15	3976.5	-98912.7	403187.9	5948.8	14713.8	142.5
16	4026.9	-92002.4	379233.5	-315.6	14903.5	164.2
17	10346.5	-62810.6	265969.8	-27729.3	38060.7	1429.9
18	10910.9	-48375.8	215496.3	-40681.2	40128.5	1458.4
19	10360.7	2172.5	30253.7	-86432.3	38176.7	1655.9
20	10925.1	16607.3	-20219.8	-99384.1	40244.5	1684.4
21	10514.4	-39776.3	186121.6	-48610.6	38693.1	1502.1
22	11078.9	-25341.4	135648.1	-61562.5	40760.9	1530.7
23	10528.6	25206.8	-49594.5	-107313.5	38809.0	1728.1
24	11093.1	39641.7	-100068.0	-120265.4	40876.8	1756.7
25	-4402.2	69902.2	-214697.2	-146072.9	-15717.8	-151.4
26	-4351.9	76812.5	-238651.6	-152337.3	-15528.1	-129.7
27	2142.2	69581.6	-214287.5	-146554.8	8207.7	800.7
28	2192.6	76491.9	-238242.0	-152819.1	8397.4	822.4
29	-2520.7	118018.2	-382942.2	-189245.7	-8825.2	-56.3
30	-2470.3	124928.5	-406896.6	-195510.1	-8635.5	-34.6
31	4023.8	117697.6	-382532.5	-189727.6	15100.4	895.9
32	4074.2	124607.9	-406486.9	-195992.0	15290.1	917.5
33	-294.1	-16545.4	121892.1	-108535.3	-650.7	8.3
34	-330.6	-15951.8	118400.6	-105288.4	-746.0	8.1
35	-303.3	-15872.9	117789.3	-104785.3	-678.1	8.0
36	-321.4	-16624.3	122503.4	-109038.4	-718.6	8.3

49	1	-11233.5	-45186.5	-117938.6	127615.7	-40716.3	1405.6
	2	-11773.3	-29127.8	-61656.3	115278.7	-40936.8	1435.4
	3	-11286.4	27160.0	145034.8	72103.4	-42780.5	1640.0
	4	-11826.3	43218.7	201317.0	59766.4	-43001.0	1669.7
	5	-11419.1	-19575.4	-28975.8	107794.5	-41413.6	1481.4
	6	-11959.0	-3516.7	27306.4	95457.5	-41634.1	1511.1
	7	-11472.1	52771.1	233997.5	52282.1	-43477.8	1715.7
	8	-12012.0	68829.8	290279.8	39945.1	-43698.3	1745.5
	9	-2592.6	-139563.4	-458392.9	200392.8	-8997.9	13.1
	10	-2648.3	-131880.1	-431704.1	194446.4	-9207.1	35.8
	11	4276.8	-139736.0	-457644.1	200870.1	16113.8	-939.1
	12	4221.1	-132052.7	-430955.3	194923.7	15904.6	-916.3
	13	-4392.2	-86034.4	-270785.5	159269.4	-9732.9	112.3
	14	-4447.9	-78351.1	-244096.7	153323.0	-9942.1	135.0
	15	2477.2	-86207.0	-270036.7	159746.7	15378.8	-839.9
	16	2421.5	-78523.7	-243347.9	153800.4	15169.6	-817.1
	17	11664.3	-45761.9	-115442.5	129206.8	42989.4	-1768.3
	18	11124.4	-29703.2	-59160.3	116869.8	42768.9	-1738.6
	19	11611.4	26584.6	147530.9	73694.4	40925.2	-1534.0
	20	11071.5	42643.3	203813.1	61357.4	40704.7	-1504.2
	21	11478.7	-20150.8	-26479.8	109385.5	42292.0	-1692.5
	22	10938.8	-4092.1	29802.4	97048.5	42071.5	-1662.8
	23	11425.7	52195.7	236493.6	53873.2	40227.9	-1458.2
	24	10885.8	68254.4	292775.8	41536.2	40007.3	-1428.4

25	-2769.1	101591.6	418185.1	15351.5	-15878.5	794.3
26	-2824.8	109274.9	444873.9	9405.2	-16087.7	817.1
27	4100.2	101419.0	418933.9	15828.9	9233.2	-157.9
28	4044.5	109102.3	445622.7	9882.5	9024.0	-135.1
29	-4568.7	155120.6	605792.5	-25771.8	-16613.5	893.5
30	-4624.4	162803.9	632481.3	-31718.2	-16822.7	916.2
31	2300.6	154948.0	606541.3	-25294.5	8498.2	-58.7
32	2244.9	162631.3	633230.1	-31240.9	8289.0	-35.9
33	-269.9	17284.9	129808.9	125507.6	-561.0	-16.6
34	-312.5	16683.5	125867.6	121859.2	-674.1	-15.6
35	-283.9	16587.5	125224.8	121180.0	-603.5	-15.4
36	-298.4	17380.9	130451.6	126186.8	-631.6	-16.8

50	1	-11201.4	-63144.5	265975.2	-15129.9	-40655.5	-1629.5
	2	-12057.5	-48045.4	217421.4	-34576.1	-40957.2	-1621.0
	3	-11288.6	4542.0	39749.1	-104898.0	-43466.2	-1561.1
	4	-12144.7	19641.1	-8804.6	-124344.2	-43768.0	-1552.6
	5	-11491.7	-39080.4	189090.1	-46212.5	-41599.8	-1608.0
	6	-12347.8	-23981.3	140536.3	-65658.7	-41901.6	-1599.4
	7	-11578.8	28606.1	-37136.0	-135980.6	-44410.6	-1539.6
	8	-12435.0	43705.2	-85689.7	-155426.8	-44712.3	-1531.0
	9	-2121.7	-151577.8	559362.9	101402.7	-7899.6	-600.4
	10	-2208.7	-144358.6	536297.4	92078.0	-8182.9	-593.9
	11	4804.8	-151811.5	559123.9	101398.4	17347.7	352.3
	12	4717.7	-144592.2	536058.4	92073.6	17064.4	358.7
	13	-4975.4	-101247.5	397517.1	36582.1	-8905.4	-571.9
	14	-5062.5	-94028.3	374451.6	27257.4	-9188.7	-565.4
	15	1951.1	-101481.2	397278.1	36577.8	16341.8	380.7
	16	1864.0	-94261.9	374212.6	27253.0	16058.5	387.2
	17	11886.8	-63923.3	265178.4	-15144.5	43502.0	1545.9
	18	11030.7	-48824.2	216624.7	-34590.7	43200.3	1554.4
	19	11799.7	3763.2	38952.4	-104912.6	40691.3	1614.3
	20	10943.6	18862.3	-9601.4	-124358.8	40389.5	1622.8
	21	11596.5	-39859.2	188293.3	-46227.1	42557.7	1567.4
	22	10740.4	-24760.1	139739.6	-65673.3	42256.0	1576.0
	23	11509.4	27827.3	-37932.7	-135995.2	39747.0	1635.8
	24	10653.3	42926.4	-86486.5	-155441.4	39445.2	1644.4
	25	-2412.1	74043.8	-194723.8	-197824.3	-17268.8	-372.3
	26	-2499.2	81263.0	-217789.3	-207149.0	-17552.1	-365.9
	27	4514.3	73810.2	-194962.8	-197828.6	7978.5	580.3
	28	4427.2	81029.4	-218028.4	-207153.4	7695.2	586.7
	29	-5265.9	124374.1	-356569.6	-262644.8	-18274.7	-343.9
	30	-5352.9	131593.3	-379635.2	-271969.6	-18557.9	-337.4
	31	1660.6	124140.5	-356808.7	-262649.2	6972.6	608.7
	32	1573.5	131359.7	-379874.2	-271974.0	6689.3	615.2
	33	-423.8	-14999.7	133142.0	-126694.6	-946.0	10.1
	34	-458.7	-14562.2	129385.8	-122917.0	-1039.8	9.6
	35	-430.5	-14481.3	128622.5	-122239.9	-970.1	9.6
	36	-452.0	-15080.6	133905.3	-127371.7	-1015.7	10.2

51	1	-14318.0	-11769.7	26281.4	13452.7	-44458.0	620.6
	2	-14240.2	-16339.0	-15725.2	19120.2	-44254.6	762.7

3	-14254.8	16928.6	284155.0	-21634.7	-44022.8	664.4
4	-14177.1	12359.3	242148.4	-15967.2	-43819.5	806.5
5	-14237.1	-17038.0	-14322.3	20003.6	-44195.0	673.5
6	-14159.3	-21607.4	-56328.9	25671.1	-43991.6	815.6
7	-14173.9	11660.2	243551.2	-15083.7	-43759.8	717.3
8	-14096.1	7090.9	201544.6	-9416.3	-43556.5	859.4
9	-4592.3	-40737.7	-246026.6	49815.2	-14426.3	-84.5
10	-4568.1	-42318.2	-258207.7	51780.5	-14347.4	-68.6
11	3860.6	-39858.0	-251385.3	49597.9	11874.7	-518.8
12	3884.9	-41438.5	-263566.5	51563.2	11953.6	-502.9
13	-4333.1	-55968.9	-386048.6	68706.8	-13748.5	389.1
14	-4308.8	-57549.4	-398229.7	70672.1	-13669.6	404.9
15	4119.9	-55089.2	-391407.4	68489.5	12552.5	-45.3
16	4144.2	-56669.7	-403588.5	70454.7	12631.4	-29.4
17	13858.6	-8837.4	8418.8	12728.3	43212.1	-827.2
18	13936.4	-13406.7	-33587.8	18395.8	43415.4	-685.1
19	13921.8	19860.9	266292.3	-22359.1	43647.2	-783.4
20	13999.6	15291.5	224285.7	-16691.6	43850.6	-641.3
21	13939.5	-14105.8	-32185.0	19279.2	43475.0	-774.3
22	14017.3	-18675.1	-74191.6	24946.7	43678.4	-632.2
23	14002.7	14592.5	225688.5	-15808.1	43910.2	-730.5
24	14080.5	10023.2	183681.9	-10140.7	44113.5	-588.4
25	-4381.7	54923.2	613551.9	-67142.7	-12975.8	61.6
26	-4357.4	53342.7	601370.8	-65177.4	-12897.0	77.5
27	4071.3	55802.9	608193.1	-67360.0	13325.2	-372.7
28	4095.5	54222.4	596012.0	-65394.8	13404.0	-356.9
29	-4122.4	39692.0	473529.9	-48251.2	-12298.0	535.1
30	-4098.2	38111.5	461348.7	-46285.9	-12219.1	551.0
31	4330.5	40571.7	468171.1	-48468.5	14003.0	100.8
32	4354.8	38991.2	455989.9	-46503.2	14081.9	116.7
33	-241.7	-1762.2	167024.9	2726.5	-394.7	34.5
34	-224.6	-1302.2	157678.7	2554.5	-374.1	28.7
35	-216.8	-1352.6	155561.2	2520.8	-355.4	28.7
36	-249.4	-1711.8	169142.4	2760.2	-413.3	34.5

52	1	-18520.9	-7947.6	120352.0	50078.0	-68142.2	-382.8
	2	-18515.5	-10366.9	93649.0	52393.6	-68348.4	-343.9
	3	-18540.8	8899.1	286330.5	34744.6	-68569.5	-85.1
	4	-18535.3	6479.8	259627.5	37060.2	-68775.7	-46.2
	5	-18507.0	-12484.6	93549.8	53318.3	-68070.1	-286.9
	6	-18501.6	-14903.9	66846.8	55633.9	-68276.3	-248.1
	7	-18526.9	4362.1	259528.3	37984.9	-68497.4	10.8
	8	-18521.4	1942.8	232825.3	40300.5	-68703.7	49.6
	9	-5537.4	-24908.6	-59591.2	64031.9	-19416.1	-627.7
	10	-5533.2	-26269.7	-67631.8	65004.0	-19394.5	-598.9
	11	5572.8	-23658.2	-66512.0	62002.5	21693.8	-529.9
	12	5577.0	-25019.3	-74552.6	62974.5	21715.4	-501.1
	13	-5519.2	-32973.1	-148601.0	71750.5	-20103.6	-498.2
	14	-5515.0	-34334.2	-156641.7	72722.6	-20082.0	-469.5
	15	5591.0	-31722.7	-155521.8	69721.0	21006.4	-400.4
	16	5595.1	-33083.8	-163562.4	70693.1	21028.0	-371.6
	17	18513.0	-3779.5	97282.8	43313.2	68891.1	-56.6

18	18518.5	-6198.8	70579.8	45628.8	68684.9	-17.8
19	18493.2	13067.2	263261.3	27979.8	68463.8	241.1
20	18498.6	10647.9	236558.3	30295.4	68257.5	279.9
21	18526.9	-8316.5	70480.5	46553.5	68963.1	39.2
22	18532.4	-10735.8	43777.6	48869.1	68756.9	78.1
23	18507.1	8530.2	236459.0	31220.1	68535.8	336.9
24	18512.5	6110.9	209756.1	33535.7	68329.6	375.8
25	-5603.5	31247.1	493670.5	12920.6	-20840.6	364.6
26	-5599.4	29886.0	485629.8	13892.7	-20819.0	393.4
27	5506.7	32497.5	486749.8	10891.2	20269.4	462.5
28	5510.8	31136.4	478709.1	11863.3	20291.0	491.2
29	-5585.4	23182.6	404660.7	20639.2	-21528.0	494.1
30	-5581.2	21821.5	396620.0	21611.3	-21506.4	522.9
31	5524.8	24433.0	397739.9	18609.8	19582.0	591.9
32	5529.0	23071.9	389699.3	19581.8	19603.6	620.7
33	-13.5	-1827.7	261301.9	66238.5	105.6	-7.6
34	-38.1	-1353.1	248063.2	62898.7	37.2	-5.9
35	-23.9	-1346.6	244600.4	61965.7	71.9	-5.8
36	-27.7	-1834.2	264764.7	67171.5	70.9	-7.7

53	1	-19742.4	-1748.8	235941.6	-19742.9	-73260.3	-97.1
	2	-19766.1	-3749.1	257764.5	-12618.0	-73722.1	-54.9
	3	-19766.8	12570.9	99429.2	-65818.5	-73546.6	231.6
	4	-19790.4	10570.6	121252.1	-58693.6	-74008.4	273.9
	5	-19770.4	-5791.8	258595.4	-12033.2	-73375.3	8.7
	6	-19794.0	-7792.1	280418.2	-4908.3	-73837.2	50.9
	7	-19794.8	8527.9	122082.9	-58108.8	-73661.6	337.4
	8	-19818.4	6527.6	143905.8	-50983.9	-74123.4	379.6
	9	-5556.0	-18893.9	368454.9	30075.3	-20017.3	-592.0
	10	-5564.4	-20106.8	375251.0	32388.2	-20051.8	-560.3
	11	6564.2	-20057.4	360551.9	31513.0	24905.9	-677.0
	12	6555.8	-21270.3	367348.0	33825.9	24871.4	-645.3
	13	-5634.7	-25561.7	441197.6	53825.0	-21556.8	-451.2
	14	-5643.1	-26774.6	447993.8	56137.9	-21591.3	-419.5
	15	6485.4	-26725.3	433294.7	55262.7	23366.4	-536.2
	16	6477.0	-27938.2	440090.8	57575.6	23331.9	-504.5
	17	20658.2	-5627.2	209598.5	-14950.6	76483.8	-380.4
	18	20634.6	-7627.6	231421.3	-7825.7	76021.9	-338.1
	19	20633.8	8692.5	73086.1	-61026.1	76197.5	-51.6
	20	20610.2	6692.1	94908.9	-53901.3	75735.6	-9.4
	21	20630.2	-9670.3	232252.2	-7240.9	76368.7	-274.6
	22	20606.6	-11670.6	254075.1	-116.0	75906.9	-232.4
	23	20605.8	4649.5	95739.8	-53316.5	76082.4	54.1
	24	20582.2	2649.1	117562.6	-46191.6	75620.6	96.3
	25	-5637.3	28838.5	-86586.5	-123510.0	-20971.6	503.7
	26	-5645.7	27625.6	-79790.4	-121197.1	-21006.1	535.5
	27	6482.9	27675.0	-94489.5	-122072.3	23951.6	418.8
	28	6474.5	26462.1	-87693.4	-119759.4	23917.1	450.5
	29	-5716.0	22170.6	-13843.8	-99760.4	-22511.1	644.5
	30	-5724.4	20957.7	-7047.7	-97447.5	-22545.6	676.2
	31	6404.1	21007.1	-21746.7	-98322.7	22412.1	559.5
	32	6395.7	19794.2	-14950.6	-96009.8	22377.6	591.3

33	644.7	934.5	278970.3	-52202.5	1791.4	0.6
34	619.1	642.5	265723.9	-49593.9	1718.5	0.2
35	635.5	654.9	261966.5	-48859.0	1758.5	0.3
36	628.3	922.0	282727.8	-52937.3	1751.3	0.5

54	1	-14619.6	-9302.0	223054.4	-2446.1	-48762.5	-842.0
	2	-14704.1	-14845.7	269442.6	1722.2	-48981.2	-820.9
	3	-14774.6	25645.6	-61741.8	-28727.3	-49462.3	-648.5
	4	-14859.1	20101.9	-15353.5	-24559.0	-49681.0	-627.4
	5	-14724.9	-15618.5	268464.8	2717.2	-49093.3	-780.6
	6	-14809.4	-21162.2	314853.0	6885.5	-49311.9	-759.5
	7	-14879.9	19329.0	-16331.4	-23564.0	-49793.1	-587.2
	8	-14964.4	13785.3	30056.9	-19395.7	-50011.7	-566.1
	9	-3931.6	-46882.7	508470.3	25609.4	-12943.1	-585.1
	10	-3963.2	-48777.7	522093.4	27158.4	-13042.3	-566.7
	11	5021.5	-47795.9	501081.4	25995.0	16940.1	-168.7
	12	4990.0	-49690.9	514704.5	27544.0	16840.8	-150.3
	13	-4213.4	-65361.7	663097.8	39503.7	-13671.9	-514.7
	14	-4245.0	-67256.7	676720.9	41052.7	-13771.1	-496.3
	15	4739.8	-66274.9	655708.9	39889.4	16211.3	-98.4
	16	4708.2	-68169.9	669332.0	41438.4	16112.1	-80.0
	17	15224.3	-12346.1	198424.8	-1160.6	50848.0	545.8
	18	15139.8	-17889.8	244813.1	3007.7	50629.4	566.9
	19	15069.3	22601.5	-86371.3	-27441.8	50148.2	739.3
	20	14984.8	17057.8	-39983.1	-23273.5	49929.6	760.4
	21	15119.0	-18662.6	243835.3	4002.8	50517.3	607.2
	22	15034.5	-24206.3	290223.5	8171.1	50298.7	628.3
	23	14964.0	16285.0	-40960.9	-22278.5	49817.5	800.6
	24	14879.5	10741.3	5427.4	-18110.1	49598.9	821.7
	25	-4448.3	69609.2	-440850.3	-61994.7	-15275.8	59.7
	26	-4479.9	67714.2	-427227.2	-60445.7	-15375.0	78.1
	27	4504.9	68696.0	-448239.2	-61609.0	14607.4	476.1
	28	4473.3	66801.0	-434616.1	-60060.0	14508.2	494.5
	29	-4730.1	51130.2	-286222.8	-48100.3	-16004.5	130.1
	30	-4761.6	49235.2	-272599.7	-46551.3	-16103.7	148.5
	31	4223.1	50216.9	-293611.7	-47714.6	13878.7	546.4
	32	4191.5	48322.0	-279988.5	-46165.6	13779.4	564.8
	33	153.7	1631.8	180282.7	-16417.0	540.1	-24.8
	34	156.1	1079.1	171720.2	-15536.0	525.5	-19.4
	35	160.4	1143.9	169350.2	-15320.4	536.1	-19.6
	36	149.4	1567.0	182652.7	-16632.6	529.6	-24.6

55	1	-19658.3	2366.9	118864.6	33114.9	-56849.6	140.3
	2	-19611.9	3023.8	125091.3	48116.1	-56704.3	159.8
	3	-18880.8	-383.5	84261.9	-53642.8	-54681.2	290.7
	4	-18834.4	273.3	90488.7	-38641.5	-54535.9	310.2
	5	-19473.1	2510.8	123224.3	47681.7	-56711.0	188.7
	6	-19426.7	3167.7	129451.0	62682.9	-56565.7	208.3
	7	-18695.6	-239.6	88621.6	-39075.9	-54542.6	339.2
	8	-18649.2	417.2	94848.4	-24074.7	-54397.3	358.7
	9	-7276.2	4014.3	174401.4	122516.5	-20840.2	-216.6
	10	-7220.7	4057.5	175709.3	126886.5	-20798.6	-202.1

11	4105.2	3289.6	192320.6	123019.9	12297.2	-367.1
12	4160.7	3332.8	193628.5	127390.0	12338.8	-352.6
13	-7121.7	6203.9	195157.3	172520.5	-20355.9	-151.6
14	-7066.1	6247.1	196465.2	176890.6	-20314.3	-137.0
15	4259.7	5479.2	213076.5	173024.0	12781.5	-302.1
16	4315.3	5522.4	214384.4	177394.0	12823.1	-287.5
17	18279.8	-48.7	178595.3	34793.1	53608.3	-361.5
18	18326.2	608.1	184822.1	49794.3	53753.6	-341.9
19	19057.3	-2799.2	143992.7	-51964.5	55776.8	-211.0
20	19103.7	-2142.3	150219.5	-36963.3	55922.1	-191.5
21	18465.0	95.2	182955.0	49360.0	53747.0	-313.0
22	18511.4	752.0	189181.8	64361.2	53892.3	-293.5
23	19242.5	-2655.3	148352.4	-37397.7	55915.4	-162.6
24	19288.9	-1998.4	154579.2	-22396.4	56060.7	-143.1
25	-4684.7	-5153.9	59059.3	-166675.6	-13612.0	284.8
26	-4629.1	-5110.7	60367.2	-162305.6	-13570.5	299.3
27	6696.8	-5878.6	76978.6	-166172.2	19525.3	134.3
28	6752.3	-5835.4	78286.5	-161802.1	19566.9	148.8
29	-4530.1	-2964.3	79815.2	-116671.6	-13127.7	349.8
30	-4474.6	-2921.1	81123.1	-112301.5	-13086.1	364.4
31	6851.3	-3689.0	97734.4	-116168.1	20009.7	199.3
32	6906.8	-3645.8	99042.4	-111798.0	20051.3	213.8
33	-274.7	-266.2	210080.6	7948.1	-589.8	-0.8
34	-335.8	396.2	202357.9	7807.1	-747.4	-0.6
35	-312.0	395.8	200699.1	7716.1	-688.6	-0.9
36	-298.4	-265.8	211739.4	8039.2	-648.5	-0.5

56	1	-11437.3	-35359.6	114370.1	-11338.8	-34929.2	-1737.7
	2	-11491.2	-45350.8	143312.7	-10148.1	-35073.5	-1728.1
	3	-11047.0	22572.2	-52163.0	-19713.1	-34032.3	-1662.3
	4	-11100.8	12581.0	-23220.5	-18522.3	-34176.6	-1652.7
	5	-11523.4	-45365.7	145992.6	-11479.1	-35117.7	-1713.9
	6	-11577.3	-55356.8	174935.2	-10288.4	-35262.0	-1704.3
	7	-11133.1	12566.1	-20540.5	-19853.4	-34220.8	-1638.4
	8	-11186.9	2574.9	8402.0	-18662.7	-34365.1	-1628.9
	9	-4118.8	-96577.0	291398.9	-5710.2	-12040.0	-645.7
	10	-4144.6	-99578.8	300885.7	-5752.3	-12096.5	-638.6
	11	2516.6	-98106.7	296060.6	-8027.1	8388.5	368.1
	12	2490.7	-101108.5	305547.3	-8069.2	8332.0	375.3
	13	-4298.3	-129880.9	387874.1	-1741.1	-12521.0	-613.8
	14	-4324.2	-132882.8	397360.8	-1783.2	-12577.5	-606.7
	15	2337.0	-131410.6	392535.7	-4057.9	7907.5	400.0
	16	2311.2	-134412.4	402022.5	-4100.0	7851.0	407.2
	17	10680.6	-40458.4	129908.8	-19061.8	33165.8	1641.8
	18	10626.7	-50449.6	158851.4	-17871.0	33021.5	1651.4
	19	11070.9	17473.3	-36624.4	-27436.0	34062.7	1717.2
	20	11017.1	7482.2	-7681.8	-26245.3	33918.4	1726.8
	21	10594.5	-50464.5	161531.3	-19202.1	32977.3	1665.6
	22	10540.6	-60455.7	190473.9	-18011.4	32833.0	1675.2
	23	10984.8	7467.3	-5001.9	-27576.4	33874.2	1741.1
	24	10931.0	-2523.9	23940.7	-26385.6	33729.9	1750.6
	25	-2817.6	96528.9	-263711.6	-33624.4	-9050.2	-394.3

26	-2843.4	93527.1	-254224.9	-33666.5	-9106.8	-387.1
27	3817.8	94999.3	-259050.0	-35941.3	11378.3	619.6
28	3792.0	91997.4	-249563.3	-35983.4	11321.7	626.7
29	-2997.1	63225.0	-167236.5	-29655.3	-9531.2	-362.4
30	-3022.9	60223.2	-157749.7	-29697.4	-9587.8	-355.2
31	3638.3	61695.3	-162574.9	-31972.2	10897.3	651.5
32	3612.4	58693.5	-153088.1	-32014.3	10840.7	658.6
33	-401.0	-29242.6	105497.2	-28581.2	-957.1	7.9
34	-410.5	-28124.6	102317.0	-27858.4	-982.9	7.6
35	-426.9	-27900.3	101451.2	-27610.3	-1024.1	7.5
36	-384.6	-29466.9	106363.0	-28829.3	-915.9	8.0

57	1	-13266.2	-11794.6	52705.3	14838.3	-43034.5	506.4
	2	-13218.9	-16040.2	15655.9	20047.4	-43258.5	526.3
	3	-12817.6	12884.5	272740.0	-15282.0	-41891.1	660.5
	4	-12770.3	8638.9	235690.6	-10072.8	-42115.1	680.4
	5	-13160.2	-13204.6	21425.0	19850.2	-42775.0	555.9
	6	-13112.9	-17450.2	-15624.3	25059.3	-42999.1	575.9
	7	-12711.6	11474.5	241459.7	-10270.1	-41631.6	710.0
	8	-12664.3	7228.9	204410.3	-5061.0	-41855.7	730.0
	9	-4337.4	-35018.3	-186435.7	43684.7	-13362.0	-148.9
	10	-4305.5	-35441.3	-195819.8	45188.2	-13284.2	-134.0
	11	3780.1	-34067.8	-199044.3	41995.4	12913.1	-551.3
	12	3811.9	-34490.8	-208428.4	43499.0	12991.0	-536.4
	13	-4179.6	-49170.2	-309933.6	61048.5	-14108.7	-82.3
	14	-4147.8	-49593.2	-319317.7	62552.0	-14030.9	-67.5
	15	3937.8	-48219.7	-322542.2	59359.2	12166.4	-484.8
	16	3969.6	-48642.7	-331926.3	60862.8	12244.2	-469.9
	17	13792.0	-8626.3	10676.6	9207.4	44549.2	-835.1
	18	13839.3	-12871.9	-26372.8	14416.5	44325.2	-815.1
	19	14240.6	16052.8	230711.3	-20912.9	45692.7	-681.0
	20	14287.9	11807.2	193661.9	-15703.8	45468.6	-661.0
	21	13898.0	-10036.3	-20603.7	14219.3	44808.7	-785.5
	22	13945.3	-14281.9	-57653.1	19428.4	44584.7	-765.6
	23	14346.6	14642.8	199431.0	-15901.0	45952.1	-631.5
	24	14393.9	10397.2	162381.6	-10691.9	45728.1	-611.5
	25	-2842.0	47245.3	547013.3	-56716.3	-9550.6	364.8
	26	-2810.2	46822.3	537629.1	-55212.8	-9472.8	379.6
	27	5275.5	48195.8	534404.6	-58405.6	16724.5	-37.7
	28	5307.3	47772.8	525020.5	-56902.0	16802.3	-22.8
	29	-2684.3	33093.4	423515.3	-39352.5	-10297.4	431.3
	30	-2652.5	32670.4	414131.3	-37849.0	-10219.5	446.2
	31	5433.2	34043.9	410906.7	-41041.8	15977.8	28.9
	32	5465.0	33620.9	401522.6	-39538.2	16055.6	43.7
	33	938.4	-562.4	171551.6	2510.0	2172.7	-103.7
	34	957.5	-681.0	161802.8	2802.0	2237.2	-96.8
	35	903.1	-757.8	159058.9	2766.2	2107.8	-93.6
	36	992.9	-485.6	174295.5	2545.8	2302.1	-106.9

58	1	-20341.3	-7087.9	159074.8	60452.1	-73180.8	-380.0
	2	-20347.3	-9342.7	135163.9	62529.2	-73181.9	-341.9
	3	-20210.7	5743.3	301182.8	48689.5	-72598.8	-80.5

4	-20216.7	3488.5	277271.8	50766.6	-72599.9	-42.3
5	-20326.7	-8050.9	150402.7	61512.9	-73103.1	-283.8
6	-20332.7	-10305.7	126491.8	63590.0	-73104.2	-245.6
7	-20196.1	4780.3	292510.7	49750.3	-72521.1	15.8
8	-20202.1	2525.5	268599.8	51827.4	-72522.2	53.9
9	-6432.8	-18867.4	-11324.5	63521.3	-23098.2	-626.6
10	-6428.4	-19156.3	-13926.1	63839.5	-23074.9	-597.7
11	5609.1	-18098.8	-36582.2	56148.3	20387.3	-529.2
12	5613.5	-18387.7	-39183.9	56466.6	20410.6	-500.3
13	-6452.7	-26383.4	-91027.5	70445.1	-23101.8	-499.5
14	-6448.3	-26672.3	-93629.1	70763.4	-23078.5	-470.6
15	5589.2	-25614.8	-116285.3	63072.2	20383.7	-402.1
16	5593.6	-25903.7	-118886.9	63390.4	20407.0	-373.2
17	19798.3	-4525.9	74882.2	35875.6	71770.9	-55.3
18	19792.3	-6780.7	50971.3	37952.7	71769.9	-17.2
19	19928.9	8305.4	216990.2	24113.0	72353.0	244.2
20	19922.9	6050.5	193079.3	26190.1	72351.9	282.4
21	19812.9	-5488.9	66210.1	36936.4	71848.6	40.9
22	19806.9	-7743.7	42299.2	39013.5	71847.6	79.1
23	19943.5	7342.3	208318.1	25173.8	72430.7	340.5
24	19937.6	5087.5	184407.2	27250.9	72429.6	378.6
25	-5997.4	23903.3	462368.8	24312.6	-21158.2	371.8
26	-5993.0	23614.4	459767.2	24630.8	-21134.9	400.7
27	6044.5	24672.0	437111.1	16939.6	22327.3	469.2
28	6048.9	24383.0	434509.4	17257.9	22350.6	498.1
29	-6017.3	16387.3	382665.8	31236.4	-21161.8	498.9
30	-6012.9	16098.4	380064.2	31554.6	-21138.5	527.8
31	6024.6	17155.9	357408.0	23863.5	22323.7	596.3
32	6029.0	16867.0	354806.4	24181.7	22347.0	625.2
33	-312.4	-2038.8	273042.1	69884.7	-591.7	3.7
34	-353.7	-1573.5	258538.1	66180.0	-707.5	1.7
35	-331.8	-1575.4	254003.8	64955.6	-653.7	2.0
36	-334.3	-2037.0	277576.3	71109.1	-645.5	3.4

59	1	-22261.8	-4062.5	275140.2	-28383.9	-79433.1	-102.7
	2	-22311.0	-5981.5	294457.5	-21890.4	-80115.8	-61.2
	3	-21949.0	6657.4	159288.4	-67020.8	-79091.5	227.1
	4	-21998.3	4738.4	178605.7	-60527.2	-79774.2	268.6
	5	-22336.7	-5311.9	282041.0	-25750.5	-79668.0	3.3
	6	-22385.9	-7230.9	301358.3	-19256.9	-80350.7	44.8
	7	-22024.0	5408.1	166189.2	-64387.3	-79326.3	333.1
	8	-22073.2	3489.1	185506.5	-57893.8	-80009.1	374.6
	9	-7380.5	-14328.2	358458.5	15992.4	-23972.3	-598.6
	10	-7402.9	-14703.0	360528.8	16782.5	-24042.8	-566.8
	11	5661.0	-13951.5	331269.5	21096.0	23294.8	-684.1
	12	5638.5	-14326.3	333339.7	21886.0	23224.4	-652.4
	13	-7544.5	-20724.8	422849.4	37637.6	-26248.1	-460.2
	14	-7567.0	-21099.7	424919.7	38427.6	-26318.6	-428.4
	15	5497.0	-20348.1	395660.4	42741.2	21019.0	-545.8
	16	5474.5	-20723.0	397730.6	43531.2	20948.5	-514.0
	17	21209.6	-2806.9	184510.1	-11372.1	78124.1	-387.9
	18	21160.4	-4725.9	203827.4	-4878.5	77441.3	-346.4

19	21522.3	7913.1	68658.3	-50008.9	78465.7	-58.1
20	21473.1	5994.1	87975.6	-43515.4	77782.9	-16.6
21	21134.7	-4056.3	191410.9	-8738.6	77889.2	-281.9
22	21085.5	-5975.3	210728.2	-2245.1	77206.4	-240.4
23	21447.4	6663.7	75559.1	-47375.5	78230.8	47.9
24	21398.2	4744.7	94876.4	-40881.9	77548.1	89.4
25	-6338.1	21405.1	-27714.1	-112797.1	-22833.6	500.7
26	-6360.6	21030.3	-25643.9	-112007.0	-22904.0	532.5
27	6703.4	21781.8	-54903.1	-107693.5	24433.6	415.1
28	6680.9	21407.0	-52832.9	-106903.5	24363.1	446.9
29	-6502.1	15008.5	36676.8	-91151.9	-25109.4	639.1
30	-6524.6	14633.7	38747.1	-90361.9	-25179.9	670.8
31	6539.3	15385.2	9487.8	-86048.3	22157.7	553.5
32	6516.9	15010.4	11558.0	-85258.3	22087.3	585.3
33	-651.2	707.4	293317.6	-55132.0	-1430.5	-15.0
34	-719.3	557.5	278594.0	-52258.1	-1613.5	-12.5
35	-674.1	557.6	273618.0	-51285.7	-1501.4	-12.5
36	-696.4	707.3	298293.6	-56104.4	-1542.6	-15.1

60	1	-14117.4	-10718.9	244329.4	-6264.2	-48200.8	-732.6
	2	-14172.6	-15849.1	284987.1	-2329.7	-48398.4	-713.2
	3	-14416.0	19155.6	2238.1	-28721.6	-49052.8	-538.4
	4	-14471.2	14025.3	42895.8	-24787.1	-49250.4	-519.0
	5	-14201.9	-12760.2	259450.8	-3366.4	-48469.3	-671.5
	6	-14257.1	-17890.4	300108.5	568.1	-48667.0	-652.1
	7	-14500.6	17114.2	17359.5	-25823.9	-49321.3	-477.3
	8	-14555.8	11984.0	58017.2	-21889.4	-49519.0	-457.9
	9	-3518.5	-40530.5	462040.5	18548.6	-12416.6	-519.9
	10	-3543.9	-41142.9	466576.9	19417.9	-12497.1	-501.5
	11	5237.7	-40726.8	442680.0	20424.3	17286.5	-142.2
	12	5212.4	-41339.2	447216.4	21293.6	17205.9	-123.9
	13	-3702.6	-57631.3	597566.3	31663.5	-13075.5	-455.1
	14	-3727.9	-58243.7	602102.7	32532.9	-13156.0	-436.8
	15	5053.7	-57827.5	578205.8	33539.3	16627.6	-77.4
	16	5028.3	-58439.9	582742.2	34408.6	16547.0	-59.1
	17	15070.2	-11373.0	179794.4	-11.6	50809.4	526.3
	18	15014.9	-16503.3	220452.2	3922.8	50611.8	545.7
	19	14771.5	18501.4	-62296.9	-22469.1	49957.4	720.5
	20	14716.3	13371.2	-21639.1	-18534.6	49759.8	740.0
	21	14985.6	-13414.4	194915.8	2886.1	50540.9	587.4
	22	14930.4	-18544.6	235573.6	6820.6	50343.2	606.8
	23	14687.0	16460.1	-47175.5	-19571.4	49688.9	781.6
	24	14631.7	11329.9	-6517.8	-15636.9	49491.2	801.0
	25	-4513.9	59050.9	-344930.6	-56309.7	-15256.6	127.5
	26	-4539.3	58438.5	-340394.2	-55440.4	-15337.1	145.8
	27	4242.3	58854.7	-364291.1	-54433.9	14446.5	505.2
	28	4216.9	58242.3	-359754.6	-53564.6	14365.9	523.5
	29	-4698.0	41950.2	-209404.8	-43194.7	-15915.4	192.3
	30	-4723.3	41337.8	-204868.4	-42325.4	-15996.0	210.6
	31	4058.3	41753.9	-228765.3	-41318.9	13787.6	569.9
	32	4032.9	41141.5	-224228.9	-40449.6	13707.1	588.3
	33	448.0	57.0	188264.8	-16697.7	1052.0	73.5

34	479.9	118.9	179022.1	-16212.6	1141.8	69.1
35	441.1	198.9	175848.1	-15922.2	1049.6	66.3
36	486.8	-23.0	191438.8	-16988.2	1144.1	76.2

111	1	-16878.8	-2031.0	107835.6	6559.2	-41052.2	-138.4
	2	-16759.3	-1228.8	107976.9	4385.1	-40698.0	-114.7
	3	-15701.2	1597.2	113876.8	-3286.3	-37944.9	44.8
	4	-15581.7	2399.5	114018.0	-5460.4	-37590.6	68.6
	5	-16512.7	-768.1	108649.4	3140.7	-40079.6	-74.0
	6	-16393.2	34.2	108790.7	966.6	-39725.3	-50.2
	7	-15335.1	2860.2	114690.5	-6704.7	-36972.2	109.3
	8	-15215.5	3662.5	114831.8	-8878.9	-36617.9	133.1
	9	-7605.1	-6756.7	77072.7	19370.3	-18345.3	-357.1
	10	-7495.3	-6377.8	77316.8	18344.8	-18053.5	-337.8
	11	1531.0	-6755.6	56642.8	19357.2	4287.6	-356.8
	12	1640.9	-6376.7	56886.9	18331.6	4579.4	-337.5
	13	-7206.7	-4082.5	77543.6	12123.2	-17164.5	-277.8
	14	-7096.9	-3703.6	77787.7	11097.7	-16872.7	-258.5
	15	1929.5	-4081.4	57113.7	12110.1	5468.4	-277.5
	16	2039.3	-3702.5	57357.8	11084.5	5760.2	-258.2
	17	13575.1	-2027.4	39735.8	6515.4	34390.8	-137.5
	18	13694.6	-1225.1	39877.1	4341.3	34745.0	-113.7
	19	14752.7	1600.9	45777.0	-3330.0	37498.2	45.8
	20	14872.2	2403.1	45918.2	-5504.1	37852.4	69.6
	21	13941.2	-764.4	40549.6	3097.0	35363.5	-73.0
	22	14060.7	37.8	40690.9	922.9	35717.7	-49.2
	23	15118.8	2863.8	46590.7	-6748.5	38470.8	110.3
	24	15238.3	3666.1	46732.0	-8922.6	38825.1	134.1
	25	-3679.7	5337.6	97209.8	-13448.0	-7987.4	253.8
	26	-3569.9	5716.5	97454.0	-14473.5	-7695.6	273.2
	27	5456.4	5338.7	76779.9	-13461.1	14645.5	254.1
	28	5566.3	5717.5	77024.0	-14486.6	14937.3	273.5
	29	-3281.3	8011.8	97680.8	-20695.0	-6806.6	333.1
	30	-3171.5	8390.7	97924.9	-21720.6	-6514.8	352.5
	31	5854.8	8012.9	77250.8	-20708.2	15826.3	333.4
	32	5964.7	8391.7	77494.9	-21733.7	16118.1	352.8
	33	-1398.4	1137.1	120163.0	-1642.1	-1926.0	-3.6
	34	-1243.5	1140.0	113500.8	-1645.0	-1703.3	-3.3
	35	-1238.5	1141.2	112631.0	-1648.0	-1696.3	-3.2
	36	-1403.4	1135.9	121032.8	-1639.1	-1932.9	-3.7

123	1	-17720.6	-3560.1	184869.0	8813.9	-41602.4	-138.4
	2	-17652.3	-2622.7	184087.0	6440.5	-41447.3	-114.7
	3	-17265.3	679.7	180947.5	-1933.4	-40512.8	44.8
	4	-17197.0	1617.1	180165.5	-4306.8	-40357.7	68.6
	5	-17578.2	-2085.4	183661.7	5083.2	-41263.1	-74.0
	6	-17509.9	-1148.0	182879.7	2709.7	-41108.0	-50.2
	7	-17122.9	2154.4	179740.2	-5664.1	-40173.5	109.3
	8	-17054.6	3091.7	178958.2	-8037.6	-40018.4	133.1
	9	-6890.8	-9076.3	156625.9	22791.0	-15446.0	-357.1
	10	-6848.0	-8633.9	156263.7	21671.8	-15344.2	-337.8
	11	2872.9	-9069.8	128076.1	22769.9	8116.6	-356.8

12	2915.6	-8627.4	127713.9	21650.6	8218.4	-337.5
13	-6663.1	-5951.7	154019.2	14879.5	-14929.0	-277.8
14	-6620.4	-5509.3	153657.0	13760.3	-14827.3	-258.5
15	3100.6	-5945.2	125469.4	14858.3	8633.5	-277.5
16	3143.3	-5502.8	125107.2	13739.1	8735.3	-258.2
17	14824.8	-3538.3	89703.1	8743.4	36939.6	-137.5
18	14893.1	-2600.9	88921.1	6369.9	37094.7	-113.7
19	15280.2	701.5	85781.5	-2003.9	38029.2	45.8
20	15348.5	1638.9	84999.5	-4377.4	38184.3	69.6
21	14967.2	-2063.6	88495.8	5012.6	37278.9	-73.0
22	15035.5	-1126.2	87713.8	2639.1	37434.0	-49.2
23	15422.6	2176.2	84574.2	-5734.7	38368.5	110.3
24	15490.9	3113.5	83792.2	-8108.1	38523.6	134.1
25	-5373.0	5056.2	143554.0	-13033.3	-11814.2	253.8
26	-5330.3	5498.6	143191.8	-14152.5	-11712.4	273.2
27	4390.6	5062.8	115004.2	-13054.5	11748.4	254.1
28	4433.4	5505.2	114642.0	-14173.7	11850.2	273.5
29	-5145.3	8180.8	140947.3	-20944.8	-11297.2	333.1
30	-5102.6	8623.2	140585.1	-22064.1	-11195.4	352.5
31	4618.3	8187.4	112397.5	-20966.0	12265.4	333.4
32	4661.0	8629.8	112035.3	-22085.2	12367.2	352.8
33	-1917.7	-304.0	209672.1	482.7	-2677.6	-3.6
34	-1696.3	-310.4	197596.9	493.5	-2358.2	-3.3
35	-1688.3	-310.1	196054.5	491.8	-2347.0	-3.2
36	-1925.7	-304.3	211214.5	484.4	-2688.9	-3.7

135

1	-17070.0	-3151.4	165450.0	8211.4	-40022.9	-138.4
2	-17138.0	-2198.4	165987.2	5814.9	-40178.7	-114.7
3	-17525.5	1160.4	168542.1	-2642.1	-41116.1	44.8
4	-17593.6	2113.3	169079.3	-5038.6	-41272.0	68.6
5	-17220.0	-1652.2	166380.3	4444.5	-40381.6	-74.0
6	-17288.0	-699.2	166917.5	2048.0	-40537.5	-50.2
7	-17675.5	2659.6	169472.4	-6409.0	-41474.9	109.3
8	-17743.5	3612.6	170009.7	-8805.5	-41630.7	133.1
9	-5109.8	-8747.4	128394.3	22306.2	-11186.8	-357.1
10	-5154.8	-8297.6	128673.4	21176.1	-11294.4	-337.8
11	4663.2	-8729.0	99982.7	22267.5	12388.5	-356.8
12	4618.3	-8279.2	100261.8	21137.5	12280.9	-337.5
13	-5336.6	-5570.8	130185.2	14317.9	-11706.2	-277.8
14	-5381.5	-5121.0	130464.3	13187.9	-11813.8	-258.5
15	4436.5	-5552.4	101773.5	14279.3	11869.1	-277.5
16	4391.5	-5102.6	102052.6	13149.2	11761.4	-258.2
17	15506.8	-3090.1	70744.4	8082.5	38561.3	-137.5
18	15438.8	-2137.1	71281.7	5686.0	38405.4	-113.7
19	15051.3	1221.7	73836.5	-2771.0	37468.0	45.8
20	14983.2	2174.6	74373.8	-5167.5	37312.2	69.6
21	15356.8	-1590.9	71674.7	4315.6	38202.6	-73.0
22	15288.8	-637.9	72212.0	1919.1	38046.7	-49.2
23	14901.3	2720.9	74766.9	-6537.9	37109.3	110.3
24	14833.3	3673.9	75304.1	-8934.4	36953.5	134.1
25	-6628.2	5625.1	138701.4	-13872.2	-14830.9	253.8
26	-6673.2	6074.9	138980.5	-15002.2	-14938.5	273.2

	27	3144.8	5643.5	110289.8	-13910.8	8744.4	254.1
	28	3099.8	6093.3	110568.9	-15040.9	8636.8	273.5
	29	-6855.0	8801.7	140492.3	-21860.4	-15350.3	333.1
	30	-6900.0	9251.5	140771.4	-22990.5	-15457.9	352.5
	31	2918.1	8820.1	112080.6	-21899.1	8225.0	333.4
	32	2873.1	9269.8	112359.7	-23029.2	8117.4	352.8
	33	-1922.0	347.4	186827.7	-477.6	-2667.6	-3.6
	34	-1700.8	356.1	177007.3	-489.2	-2350.2	-3.3
	35	-1693.1	358.2	175467.0	-493.6	-2339.6	-3.2
	36	-1929.7	345.2	188368.0	-473.2	-2678.2	-3.7
146	1	-15667.3	-4045.4	74029.7	9529.5	-37245.3	-138.4
	2	-16814.6	-3224.4	73502.3	7327.6	-37551.4	-114.7
	3	-15752.7	-330.8	68387.3	-443.5	-40305.5	44.8
	4	-16900.0	490.2	67859.9	-2645.3	-40611.6	68.6
	5	-16025.3	-2752.7	72999.7	6067.2	-38214.1	-74.0
	6	-17172.6	-1931.7	72472.3	3865.4	-38520.2	-50.2
	7	-16110.6	961.9	67357.3	-3905.8	-41274.3	109.3
	8	-17258.0	1782.9	66829.9	-6107.6	-41580.4	133.1
	9	-3490.8	-8859.0	64010.1	22470.4	-6952.5	-357.1
	10	-3598.1	-8471.1	63701.1	21431.7	-7243.2	-337.8
	11	5820.9	-8837.0	49560.9	22426.5	15937.1	-356.8
	12	5713.5	-8449.2	49251.9	21387.8	15646.4	-337.5
	13	-7315.2	-6122.3	62252.0	15131.0	-7972.9	-277.8
	14	-7422.6	-5734.5	61943.0	14092.3	-8263.5	-258.5
	15	1996.4	-6100.4	47802.9	15087.1	14916.7	-277.5
	16	1889.0	-5712.6	47493.9	14048.4	14626.1	-258.2
	17	15371.6	-3972.4	25865.8	9383.2	39053.4	-137.5
	18	14224.3	-3151.4	25338.4	7181.4	38747.3	-113.7
	19	15286.2	-257.7	20223.3	-589.8	35993.2	45.8
	20	14138.9	563.3	19695.9	-2791.6	35687.1	69.6
	21	15013.6	-2679.6	24835.8	5920.9	38084.6	-73.0
	22	13866.3	-1858.6	24308.4	3719.1	37778.5	-49.2
	23	14928.3	1035.0	19193.3	-4052.1	35024.4	110.3
	24	13780.9	1856.0	18665.9	-6253.9	34718.3	134.1
	25	-3775.4	3523.1	45201.8	-10772.8	-17153.1	253.8
	26	-3882.8	3911.0	44892.8	-11811.5	-17443.7	273.2
	27	5536.3	3545.1	30752.6	-10816.7	5736.6	254.1
	28	5428.9	3932.9	30443.6	-11855.4	5445.9	273.5
	29	-7599.9	6259.8	43443.8	-18112.2	-18173.4	333.1
	30	-7707.3	6647.6	43134.8	-19150.9	-18464.0	352.5
	31	1711.8	6281.7	28994.6	-18156.1	4716.2	333.4
	32	1604.4	6669.5	28685.6	-19194.8	4425.6	352.8
	33	-1604.6	-1523.3	69282.1	2280.6	-2178.0	-3.6
	34	-1427.8	-1530.3	67672.3	2292.2	-1928.2	-3.3
	35	-1422.6	-1529.9	66867.6	2290.4	-1921.6	-3.2
	36	-1609.8	-1523.7	70086.7	2282.5	-2184.5	-3.7
Tot.	1	-789816.3	-439462.2	10953645.0	474964.6	-2503218.0	-5306.3
Tot.	2	-791047.0	-475141.4	10953370.0	489514.4	-2502114.0	-4211.7
Tot.	3	-786430.3	453898.7	10955098.0	-437314.0	-2503368.0	2345.1
Tot.	4	-787661.0	418219.4	10954824.0	-422764.1	-2502264.0	3439.7

Tot.	5	-789697.3	-429188.6	10949021.0	429382.4	-2503331.3	-2658.9
Tot.	6	-790927.9	-464867.9	10948744.0	443932.3	-2502227.8	-1564.3
Tot.	7	-786311.4	464172.2	10950474.0	-482896.0	-2503481.0	4992.5
Tot.	8	-787542.1	428493.0	10950194.0	-468346.2	-2502377.3	6087.1
Tot.	9	-240213.6	-1432655.8	10960253.0	1503700.4	-747721.9	-14916.4
Tot.	10	-240177.9	-1429573.6	10958864.0	1490025.8	-747755.6	-14122.1
Tot.	11	232993.8	-1429364.8	10968486.0	1501420.0	757978.1	-15201.8
Tot.	12	233029.6	-1426282.9	10967094.0	1487745.5	757944.2	-14407.5
Tot.	13	-244316.0	-1551586.8	10959332.0	1552200.4	-744041.4	-11267.8
Tot.	14	-244280.3	-1548504.6	10957944.0	1538525.5	-744075.3	-10473.5
Tot.	15	228891.5	-1548295.3	10967561.0	1549919.4	761658.3	-11553.2
Tot.	16	228927.2	-1545213.6	10966172.0	1536245.3	761624.3	-10758.9
Tot.	17	787542.0	-428492.9	10981072.0	467363.2	2515780.8	-6257.7
Tot.	18	786311.4	-464172.2	10980793.0	481913.1	2516885.0	-5163.2
Tot.	19	790928.0	464867.9	10982527.0	-444915.1	2515631.5	1393.7
Tot.	20	789697.3	429188.6	10982248.0	-430365.4	2516735.3	2488.2
Tot.	21	787660.8	-418219.3	10976446.0	421781.2	2515668.0	-3610.3
Tot.	22	786430.3	-453898.5	10976170.0	436331.0	2516772.0	-2515.7
Tot.	23	791046.8	475141.5	10977898.0	-490497.4	2515518.0	4041.1
Tot.	24	789816.3	439462.3	10977620.0	-475947.5	2516622.0	5135.7
Tot.	25	-228927.2	1545213.8	10965094.0	-1537227.9	-748220.8	10588.3
Tot.	26	-228891.5	1548295.9	10963709.0	-1550902.6	-748254.6	11382.5
Tot.	27	244280.3	1548504.3	10973325.0	-1539508.4	757479.0	10302.9
Tot.	28	244316.0	1551586.4	10971936.0	-1553182.9	757445.3	11097.1
Tot.	29	-233029.6	1426282.6	10964173.0	-1488728.3	-744540.2	14236.9
Tot.	30	-232993.9	1429365.0	10962785.0	-1502403.0	-744574.3	15031.2
Tot.	31	240177.9	1429573.9	10972400.0	-1491008.5	761159.4	13951.5
Tot.	32	240213.6	1432655.6	10971013.0	-1504683.1	761125.5	14745.7
Tot.	33	0.0	0.0	17594044.0	-1147.7	10272.1	-139.7
Tot.	34	0.0	0.0	16398817.0	-743.7	9453.5	-124.9
Tot.	35	-0.0	-0.0	16210896.0	-769.0	9393.6	-123.1
Tot.	36	0.0	-0.0	17781962.0	-1122.4	10331.9	-141.5

Combinazioni agli Stati Limite di Esercizio

Nodo	Comb.	Rx [kg]	Ry [kg]	Rz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
1	37	1307.8	883.4	149361.8	-1470.2	2186.0	-0.7
	38	1198.7	879.6	141253.6	-1462.3	2005.2	-0.6
	39	1193.3	879.3	140567.3	-1461.7	1996.2	-0.6
	40	1186.4	879.1	139708.0	-1461.6	1984.7	-0.6
	41	1150.9	877.8	137119.7	-1459.0	1925.9	-0.6
	42	1148.2	877.6	136777.3	-1458.5	1921.6	-0.6
	43	1148.2	877.7	136776.5	-1458.7	1921.4	-0.6
2	37	134.6	66.6	210990.7	-119.5	257.7	-0.7
	38	110.9	66.3	196270.9	-117.5	217.2	-0.6
	39	110.0	66.2	194844.0	-117.4	215.8	-0.6
	40	108.9	66.2	193061.3	-117.6	213.7	-0.6
	41	101.1	66.1	188392.5	-117.0	200.4	-0.6
	42	100.7	66.1	187678.5	-116.8	199.8	-0.6
	43	100.7	66.1	187679.0	-116.9	199.7	-0.6
3	37	36.6	19.0	222934.4	-39.4	96.6	-0.7
	38	36.7	18.9	207129.0	-38.0	95.2	-0.6
	39	36.6	18.9	205584.2	-38.0	95.0	-0.6
	40	36.3	19.0	203653.2	-38.2	94.4	-0.6
	41	36.4	18.9	198642.2	-37.7	94.0	-0.6
	42	36.3	18.9	197869.8	-37.6	94.0	-0.6
	43	36.3	18.9	197869.8	-37.7	93.9	-0.6
4	37	19.0	196.2	227703.9	-330.5	67.7	-0.7
	38	18.2	196.8	211971.2	-330.5	64.9	-0.6
	39	18.2	196.8	210435.4	-330.5	64.8	-0.6
	40	18.1	196.9	208516.0	-330.8	64.4	-0.6
	41	17.8	197.1	203527.7	-330.8	63.5	-0.6
	42	17.9	197.1	202759.6	-330.7	63.6	-0.6
	43	17.8	197.1	202759.8	-330.8	63.5	-0.6
5	37	21.1	30.4	222985.9	-55.2	71.1	-0.7
	38	20.3	30.4	207237.0	-54.2	68.3	-0.6
	39	20.3	30.4	205699.5	-54.2	68.2	-0.6
	40	20.2	30.4	203777.7	-54.4	67.8	-0.6
	41	19.9	30.4	198784.3	-54.1	66.9	-0.6
	42	19.9	30.4	198015.5	-54.0	67.0	-0.6
	43	19.9	30.4	198015.5	-54.1	66.8	-0.6
6	37	20.4	206.0	227957.4	-343.7	70.0	-0.7
	38	19.6	206.0	212208.0	-342.9	67.2	-0.6
	39	19.6	205.9	210665.8	-342.8	67.1	-0.6
	40	19.5	205.8	208738.3	-342.8	66.8	-0.6

	41	19.3	205.8	203745.5	-342.6	65.8	-0.6
	42	19.3	205.8	202974.4	-342.4	66.0	-0.6
	43	19.2	205.8	202974.5	-342.5	65.8	-0.6
7	37	21.1	30.5	223026.1	-52.4	71.2	-0.7
	38	20.3	30.5	207274.4	-51.7	68.3	-0.6
	39	20.3	30.5	205736.4	-51.8	68.3	-0.6
	40	20.2	30.5	203813.9	-51.9	67.9	-0.6
	41	19.9	30.5	198819.6	-51.7	66.9	-0.6
	42	19.9	30.5	198050.6	-51.6	67.0	-0.6
	43	19.9	30.5	198050.6	-51.7	66.9	-0.6
8	37	22.9	204.2	228495.1	-337.8	74.0	-0.7
	38	22.0	204.3	212714.3	-337.5	71.2	-0.6
	39	22.0	204.2	211168.1	-337.4	71.0	-0.6
	40	21.8	204.2	209235.5	-337.4	70.6	-0.6
	41	21.5	204.2	204232.9	-337.3	69.6	-0.6
	42	21.6	204.2	203459.8	-337.2	69.7	-0.6
	43	21.5	204.2	203459.8	-337.3	69.5	-0.6
9	37	-59.3	1.4	219372.0	-1.2	-61.1	-0.7
	38	-56.7	3.2	203798.3	-3.9	-58.2	-0.6
	39	-55.9	3.4	202288.6	-4.2	-57.0	-0.6
	40	-55.0	3.5	200401.7	-4.7	-55.8	-0.6
	41	-54.3	4.2	195462.1	-5.6	-55.0	-0.6
	42	-53.8	4.2	194707.2	-5.7	-54.2	-0.6
	43	-53.9	4.2	194707.3	-5.7	-54.4	-0.6
10	37	-485.3	-244.0	143640.2	405.6	-761.3	-0.7
	38	-446.2	-215.2	132736.2	358.2	-698.5	-0.6
	39	-444.2	-212.9	131840.8	354.3	-695.1	-0.6
	40	-441.6	-210.0	130722.6	349.4	-691.2	-0.6
	41	-428.9	-200.7	127237.2	334.2	-670.8	-0.6
	42	-427.9	-199.6	126788.9	332.3	-669.0	-0.6
	43	-427.9	-199.6	126789.5	332.2	-669.2	-0.6
12	37	1759.3	-210.6	229955.2	337.1	2933.1	-0.7
	38	1593.7	-213.9	216003.4	344.1	2659.0	-0.6
	39	1585.2	-214.2	214834.4	344.6	2644.8	-0.6
	40	1574.4	-214.3	213372.4	344.6	2626.9	-0.6
	41	1520.7	-215.4	208916.7	346.8	2537.9	-0.6
	42	1516.4	-215.6	208332.5	347.4	2530.9	-0.6
	43	1516.4	-215.5	208332.2	347.1	2530.8	-0.6
13	37	-1662.0	-53.7	271119.6	49.4	-2607.8	-2.3
	38	-1487.5	-54.4	249883.9	56.2	-2327.9	-2.1
	39	-1481.7	-54.4	247823.2	56.4	-2318.6	-2.1
	40	-1475.5	-54.4	245179.7	55.5	-2309.1	-2.1
	41	-1418.4	-54.6	238444.6	57.8	-2217.4	-2.0
	42	-1414.9	-54.6	237448.0	58.5	-2211.7	-2.0
	43	-1415.4	-54.6	237414.2	57.9	-2212.7	-2.0

14	37	-843.5	27074.0	44530.8	-13633.7	-2120.7	-5.0
	38	-708.9	25632.2	42566.5	-12835.4	-1778.2	-6.6
	39	-705.1	25277.4	41948.3	-12665.0	-1768.8	-6.6
	40	-703.2	24695.6	40915.5	-12389.5	-1764.5	-6.4
	41	-659.0	24274.2	40363.8	-12151.8	-1651.9	-7.0
	42	-655.6	24165.9	40184.6	-12097.8	-1643.4	-7.0
	43	-657.1	24096.8	40054.6	-12066.6	-1647.2	-6.9
15	37	-381.0	17172.7	135296.1	15598.5	-429.1	-9.1
	38	-380.9	16583.9	129826.3	14998.5	-452.0	-8.7
	39	-350.2	16444.1	128830.7	14886.7	-381.2	-8.7
	40	-312.9	16109.6	126305.8	14552.4	-296.1	-8.7
	41	-318.0	15936.7	124648.4	14371.0	-315.5	-8.6
	42	-302.2	15946.7	124790.9	14412.3	-278.4	-8.5
	43	-302.6	15866.8	124150.6	14315.1	-280.1	-8.6
16	37	2160.7	28315.7	47568.4	-14024.6	5544.2	-57.1
	38	2012.2	27000.7	45235.8	-13417.8	5161.2	-52.5
	39	1936.9	26543.1	44436.6	-13198.3	4969.7	-51.4
	40	1847.3	25993.6	43485.2	-12935.2	4741.9	-50.2
	41	1810.3	25631.5	42840.9	-12769.5	4646.1	-48.8
	42	1770.4	25391.4	42417.4	-12654.2	4544.7	-48.3
	43	1772.7	25402.7	42441.3	-12659.8	4550.4	-48.3
17	37	1150.6	2106.1	360396.8	-3460.6	1986.7	-2.3
	38	995.2	1835.6	335130.3	-3014.9	1727.8	-2.1
	39	988.2	1835.7	329808.3	-3014.9	1716.1	-2.1
	40	979.3	1835.8	323165.5	-3015.9	1701.0	-2.1
	41	928.7	1745.6	315630.4	-2867.3	1616.6	-2.0
	42	925.3	1745.6	312964.5	-2866.9	1611.0	-2.0
	43	925.2	1745.7	312969.4	-2867.3	1610.8	-2.0
18	37	-19.0	55.1	386435.1	-104.1	76.1	-2.3
	38	-10.3	39.9	359373.8	-75.9	85.3	-2.1
	39	-10.7	39.8	353580.1	-75.9	84.3	-2.1
	40	-11.2	39.8	346337.6	-76.5	82.9	-2.1
	41	-8.2	34.7	338282.8	-67.2	86.1	-2.0
	42	-8.4	34.7	335386.1	-66.8	85.7	-2.0
	43	-8.4	34.7	335385.9	-67.2	85.6	-2.0
19	37	46.9	-1.4	372005.6	-5.6	183.7	-2.3
	38	44.2	-2.2	345326.0	-1.6	174.3	-2.1
	39	44.1	-2.2	339562.1	-1.8	173.9	-2.1
	40	44.1	-2.2	332357.2	-2.5	173.2	-2.1
	41	43.2	-2.5	324424.7	-1.2	170.1	-2.0
	42	43.2	-2.5	321542.8	-1.0	170.0	-2.0
	43	43.2	-2.5	321542.8	-1.3	169.9	-2.0
20	37	52.9	-49.7	382188.8	79.4	193.5	-2.3
	38	50.3	-49.8	355506.2	81.5	184.3	-2.1
	39	50.3	-49.8	349723.6	81.4	183.9	-2.1
	40	50.2	-49.9	342495.3	80.9	183.2	-2.1

	41	49.4	-49.9	334564.9	81.6	180.2	-2.0
	42	49.3	-50.0	331673.6	81.7	180.1	-2.0
	43	49.3	-50.0	331673.6	81.5	180.0	-2.0
21	37	-30.6	14.0	370117.4	-18.6	57.1	-2.3
	38	-35.1	13.0	343217.8	-15.5	44.8	-2.1
	39	-30.3	12.9	337696.9	-15.7	52.3	-2.1
	40	-24.3	12.8	330795.5	-16.2	61.5	-2.1
	41	-26.6	12.5	322749.1	-15.1	56.2	-2.0
	42	-24.2	12.4	319988.8	-15.1	60.0	-2.0
	43	-24.2	12.4	319988.7	-15.2	59.9	-2.0
22	37	-615.6	334.9	307645.7	-536.7	-898.5	-2.3
	38	-541.9	313.7	283188.3	-501.2	-783.1	-2.1
	39	-533.1	311.8	280681.2	-498.5	-769.1	-2.1
	40	-522.2	309.4	277545.5	-495.2	-751.9	-2.1
	41	-499.1	302.6	269810.8	-483.8	-715.7	-2.0
	42	-494.8	301.6	268558.3	-482.4	-708.7	-2.0
	43	-494.7	301.6	268557.3	-482.5	-708.8	-2.0
24	37	1762.2	188.9	230032.5	-322.9	2942.0	-0.7
	38	1596.2	190.4	216073.2	-323.8	2666.9	-0.6
	39	1587.6	190.5	214902.5	-323.9	2652.6	-0.6
	40	1576.9	190.9	213440.5	-324.7	2634.7	-0.6
	41	1523.0	191.3	208982.5	-325.0	2545.4	-0.6
	42	1518.7	191.3	208396.5	-324.8	2538.2	-0.6
	43	1518.7	191.4	208397.1	-325.1	2538.2	-0.6
25	37	-1688.5	48.5	269329.3	-117.6	-2639.9	-2.3
	38	-1510.5	48.2	248308.3	-111.5	-2355.4	-2.1
	39	-1504.5	48.3	246268.4	-111.3	-2346.0	-2.1
	40	-1498.6	48.4	243610.3	-112.3	-2336.9	-2.1
	41	-1440.3	48.3	236943.4	-110.3	-2243.6	-2.0
	42	-1436.5	48.2	235977.5	-109.6	-2237.6	-2.0
	43	-1437.3	48.3	235923.4	-110.2	-2238.9	-2.0
26	37	-285.9	-23924.5	38850.9	11927.9	-699.8	15.2
	38	-173.8	-22933.4	37719.5	11371.7	-414.6	16.3
	39	-176.6	-22599.3	37137.7	11211.6	-422.0	16.2
	40	-196.5	-21954.3	35990.4	10900.1	-473.1	15.6
	41	-158.6	-21679.6	35710.2	10741.4	-376.8	16.0
	42	-151.9	-21626.3	35629.2	10717.0	-359.6	16.2
	43	-160.0	-21512.6	35419.3	10661.3	-380.5	16.0
27	37	-275.2	-104.7	141026.1	166.3	50.8	-1.3
	38	-228.3	-108.2	133016.9	173.3	98.3	-1.1
	39	-227.3	-108.7	131560.3	174.1	98.0	-1.1
	40	-222.7	-99.2	128991.8	158.2	102.8	-1.1
	41	-207.3	-100.3	126564.8	160.4	118.7	-1.1
	42	-208.4	-105.6	126210.3	169.2	115.9	-1.1
	43	-206.8	-100.5	125836.5	160.8	118.5	-1.1

28	37	1494.0	-25949.0	42777.7	12865.2	3842.6	46.5
	38	1379.8	-24986.6	41217.7	12413.3	3547.6	42.7
	39	1317.4	-24537.8	40435.0	12198.6	3389.1	41.8
	40	1243.7	-23935.2	39364.9	11912.7	3201.6	40.7
	41	1216.0	-23689.2	38975.3	11797.9	3129.6	39.6
	42	1182.7	-23485.7	38629.8	11699.3	3045.2	39.1
	43	1184.8	-23464.8	38584.0	11690.5	3050.4	39.1
29	37	1175.6	-2100.2	359451.3	3410.6	2038.6	-2.3
	38	1017.2	-1830.8	334296.1	2974.5	1773.7	-2.1
	39	1009.9	-1830.8	328985.2	2974.5	1761.4	-2.1
	40	1001.2	-1830.7	322336.9	2973.6	1746.7	-2.1
	41	949.6	-1741.0	314837.0	2828.2	1660.4	-2.0
	42	945.9	-1741.0	312186.4	2828.7	1654.0	-2.0
	43	946.0	-1741.0	312181.6	2828.2	1654.3	-2.0
30	37	-13.7	-53.2	386482.8	72.9	95.9	-2.3
	38	-5.6	-38.3	359416.9	51.8	103.0	-2.1
	39	-6.0	-38.2	353622.4	51.6	101.8	-2.1
	40	-6.5	-38.1	346379.7	50.7	100.5	-2.1
	41	-3.7	-33.2	338323.6	43.7	103.1	-2.0
	42	-4.0	-33.1	335426.0	43.9	102.4	-2.0
	43	-3.9	-33.1	335426.3	43.6	102.5	-2.0
31	37	52.5	2.2	372001.8	-11.5	204.0	-2.3
	38	49.2	2.9	345322.5	-10.0	192.6	-2.1
	39	49.1	2.9	339558.7	-10.2	191.9	-2.1
	40	49.1	2.9	332353.9	-10.9	191.3	-2.1
	41	48.0	3.1	324421.4	-10.4	187.6	-2.0
	42	47.9	3.1	321539.5	-10.2	187.2	-2.0
	43	48.0	3.1	321539.5	-10.4	187.3	-2.0
32	37	59.5	49.5	382286.2	-82.7	215.5	-2.3
	38	56.3	49.5	355591.4	-80.7	204.1	-2.1
	39	56.2	49.6	349808.7	-81.1	203.4	-2.1
	40	56.1	49.7	342580.2	-81.9	202.8	-2.1
	41	55.1	49.7	334645.8	-81.2	199.1	-2.0
	42	54.9	49.7	331754.4	-81.2	198.7	-2.0
	43	55.0	49.7	331754.4	-81.4	198.8	-2.0
33	37	-48.7	-17.7	369569.2	33.2	38.7	-2.3
	38	-50.8	-16.6	342746.2	32.9	29.1	-2.1
	39	-46.1	-16.5	337226.0	32.4	36.4	-2.1
	40	-40.1	-16.4	330325.8	31.6	45.7	-2.1
	41	-41.6	-16.1	322304.8	31.5	41.3	-2.0
	42	-39.3	-16.0	319544.7	31.4	44.8	-2.0
	43	-39.2	-16.0	319544.8	31.3	44.9	-2.0
34	37	-606.3	-342.8	294432.8	570.4	-872.1	-2.3
	38	-533.1	-322.8	271671.0	538.5	-758.6	-2.1
	39	-524.4	-320.8	269171.4	534.8	-744.9	-2.1
	40	-513.4	-318.2	266047.6	530.0	-727.6	-2.1

	41	-490.5	-311.9	258877.0	520.0	-692.0	-2.0
	42	-486.2	-310.9	257626.8	518.2	-685.3	-2.0
	43	-486.1	-310.9	257627.1	518.2	-685.2	-2.0
36	37	1317.7	-878.0	149408.2	1439.6	2216.3	-0.7
	38	1207.5	-875.5	141301.0	1436.9	2032.4	-0.6
	39	1202.0	-875.2	140612.6	1436.6	2023.1	-0.6
	40	1195.1	-874.8	139751.1	1435.8	2011.6	-0.6
	41	1159.3	-874.0	137163.5	1434.9	1951.9	-0.6
	42	1156.5	-874.0	136819.8	1435.0	1947.0	-0.6
	43	1156.5	-873.9	136819.3	1434.8	1947.2	-0.6
37	37	143.1	-65.6	210935.9	98.8	285.8	-0.7
	38	118.5	-65.4	196220.4	100.0	242.5	-0.6
	39	117.6	-65.4	194794.5	100.0	240.7	-0.6
	40	116.5	-65.4	193012.0	99.7	238.7	-0.6
	41	108.4	-65.3	188344.4	100.1	224.6	-0.6
	42	107.9	-65.3	187631.6	100.3	223.5	-0.6
	43	108.0	-65.3	187631.5	100.1	223.7	-0.6
38	37	45.3	-18.3	222933.0	22.2	125.0	-0.7
	38	44.5	-18.3	207127.9	23.6	120.8	-0.6
	39	44.3	-18.3	205583.1	23.6	120.2	-0.6
	40	44.1	-18.3	203652.0	23.4	119.7	-0.6
	41	43.8	-18.3	198641.1	23.8	118.4	-0.6
	42	43.7	-18.3	197868.7	24.0	118.0	-0.6
	43	43.7	-18.3	197868.7	23.8	118.1	-0.6
39	37	27.5	-194.8	227679.7	315.4	95.7	-0.7
	38	25.8	-195.7	211950.9	317.9	90.1	-0.6
	39	25.7	-195.7	210415.2	318.0	89.6	-0.6
	40	25.6	-195.8	208495.2	317.9	89.4	-0.6
	41	25.1	-196.0	203508.2	318.7	87.6	-0.6
	42	25.0	-196.1	202740.6	318.9	87.2	-0.6
	43	25.0	-196.1	202740.4	318.7	87.4	-0.6
40	37	29.8	-29.9	222979.8	44.4	99.5	-0.7
	38	28.1	-30.0	207231.6	45.5	93.8	-0.6
	39	27.9	-29.9	205694.2	45.5	93.4	-0.6
	40	27.9	-29.9	203772.3	45.3	93.1	-0.6
	41	27.3	-30.0	198779.1	45.6	91.3	-0.6
	42	27.2	-30.0	198010.4	45.7	90.9	-0.6
	43	27.3	-30.0	198010.4	45.6	91.0	-0.6
41	37	29.0	-205.3	227947.0	335.6	98.2	-0.7
	38	27.3	-205.4	212199.8	336.7	92.6	-0.6
	39	27.2	-205.3	210657.6	336.5	92.1	-0.6
	40	27.1	-205.2	208729.6	336.1	91.9	-0.6
	41	26.6	-205.3	203737.6	336.5	90.1	-0.6
	42	26.5	-205.2	202966.6	336.5	89.7	-0.6
	43	26.5	-205.2	202966.5	336.4	89.8	-0.6

42	37	30.3	-30.1	223028.0	47.8	100.3	-0.7
	38	28.5	-30.2	207276.6	48.5	94.5	-0.6
	39	28.4	-30.2	205738.5	48.5	94.0	-0.6
	40	28.3	-30.1	203815.8	48.3	93.7	-0.6
	41	27.7	-30.2	198821.7	48.5	91.9	-0.6
	42	27.6	-30.2	198052.6	48.6	91.5	-0.6
	43	27.7	-30.1	198052.6	48.5	91.7	-0.6
43	37	31.9	-203.4	228761.9	335.5	103.0	-0.7
	38	30.1	-203.6	212956.7	336.3	97.2	-0.6
	39	30.0	-203.5	211409.3	336.1	96.7	-0.6
	40	29.9	-203.4	209474.9	335.8	96.3	-0.6
	41	29.3	-203.5	204464.4	336.1	94.5	-0.6
	42	29.2	-203.4	203690.8	336.1	94.1	-0.6
	43	29.2	-203.4	203690.7	336.0	94.2	-0.6
44	37	-95.4	2.1	217195.3	-2.4	-106.4	-0.7
	38	-89.5	0.1	201807.7	1.2	-99.4	-0.6
	39	-88.6	-0.0	200314.3	1.4	-98.2	-0.6
	40	-87.5	-0.2	198447.3	1.5	-96.5	-0.6
	41	-85.6	-0.9	193567.0	2.7	-94.4	-0.6
	42	-85.2	-0.9	192820.4	2.8	-94.0	-0.6
	43	-85.2	-0.9	192820.3	2.8	-93.8	-0.6
45	37	-484.5	261.5	111719.1	-429.4	-745.9	-0.7
	38	-445.3	232.3	103859.3	-381.0	-684.2	-0.6
	39	-443.3	229.9	103087.4	-377.1	-681.3	-0.6
	40	-440.8	226.9	102119.2	-372.3	-677.3	-0.6
	41	-428.1	217.6	99627.9	-356.9	-657.3	-0.6
	42	-427.1	216.4	99243.6	-354.9	-655.9	-0.6
	43	-427.1	216.4	99241.9	-354.9	-655.8	-0.6
47	37	-241.9	10485.7	84848.9	77678.7	-537.5	-9.8
	38	-264.5	10185.0	82361.3	75477.5	-596.7	-9.3
	39	-247.0	10137.3	82023.4	75136.0	-553.1	-9.2
	40	-224.7	10077.7	81609.7	74708.0	-498.0	-9.2
	41	-235.2	9985.4	80836.8	74031.1	-525.0	-9.0
	42	-226.5	9961.5	80663.5	73861.0	-503.5	-9.0
	43	-226.4	9961.5	80667.9	73860.4	-503.2	-9.0
48	37	-198.1	-11700.9	86333.0	-76863.3	-428.8	6.7
	38	-222.5	-11305.1	84005.4	-74698.8	-492.4	6.5
	39	-204.2	-11252.5	83597.8	-74363.4	-447.1	6.5
	40	-181.1	-11186.4	83078.0	-73943.7	-389.8	6.5
	41	-192.2	-11063.3	82370.0	-73278.1	-418.5	6.4
	42	-183.3	-11037.1	82171.5	-73110.6	-396.2	6.4
	43	-183.1	-11037.0	82166.2	-73110.4	-395.9	6.4
49	37	-180.9	12217.4	91910.4	88875.1	-365.1	-12.5
	38	-209.3	11816.5	89282.9	86442.8	-440.5	-11.8
	39	-190.2	11752.5	88854.3	85990.0	-393.4	-11.7
	40	-165.9	11672.9	88330.1	85424.4	-333.2	-11.7

	41	-178.6	11549.9	87525.7	84689.1	-366.2	-11.4
	42	-169.3	11517.7	87305.7	84462.5	-343.4	-11.4
	43	-169.1	11518.0	87311.5	84462.8	-342.7	-11.4
50	37	-287.5	-10624.0	94280.1	-89695.4	-631.6	8.0
	38	-310.7	-10332.3	91776.0	-87177.0	-694.2	7.6
	39	-291.9	-10278.4	91267.1	-86725.6	-647.7	7.6
	40	-267.9	-10210.8	90621.5	-86162.7	-588.2	7.5
	41	-278.8	-10122.6	89871.6	-85398.5	-616.8	7.4
	42	-269.6	-10095.7	89622.0	-85172.1	-594.3	7.4
	43	-269.4	-10095.6	89617.2	-85172.8	-593.5	7.4
51	37	-147.6	-1207.5	117192.3	1897.3	-223.7	21.1
	38	-136.2	-900.8	110961.5	1782.7	-209.9	17.3
	39	-131.1	-934.5	109549.8	1760.2	-197.5	17.3
	40	-123.0	-972.7	107176.3	1696.1	-177.8	17.4
	41	-120.1	-864.8	105334.6	1661.6	-175.3	16.1
	42	-118.3	-883.6	104933.3	1668.4	-171.2	16.0
	43	-117.5	-881.7	104628.8	1650.4	-169.1	16.1
52	37	2.9	-1269.9	183384.9	46495.1	118.4	-4.7
	38	-13.5	-953.5	174559.1	44268.5	72.8	-3.6
	39	-4.0	-949.2	172250.5	43646.5	96.0	-3.5
	40	0.5	-1024.2	168188.3	42600.9	107.0	-3.9
	41	-6.6	-919.4	165631.2	41962.4	87.9	-3.5
	42	1.8	-877.1	165065.1	41785.4	108.4	-3.3
	43	-1.8	-917.3	164476.9	41651.4	99.5	-3.5
53	37	461.7	650.5	195833.8	-36645.3	1294.5	-0.1
	38	444.7	455.8	187002.9	-34906.3	1245.9	-0.4
	39	455.6	464.1	184497.9	-34416.4	1272.6	-0.3
	40	424.6	514.4	179904.5	-33587.8	1194.1	-0.3
	41	417.1	448.1	177378.4	-33089.7	1173.5	-0.4
	42	444.9	432.3	176857.0	-32952.9	1242.8	-0.4
	43	422.6	452.2	176125.9	-32844.8	1186.8	-0.4
54	37	129.0	1107.9	126575.7	-11503.6	432.4	-14.4
	38	130.5	739.4	120867.4	-10916.3	422.6	-10.9
	39	133.4	782.6	119287.4	-10772.6	429.6	-11.0
	40	129.2	838.9	116275.3	-10485.9	420.8	-11.3
	41	129.2	708.8	114635.9	-10314.1	416.4	-10.1
	42	134.6	729.3	114364.4	-10295.7	428.7	-10.1
	43	130.7	730.4	113845.8	-10242.2	419.9	-10.2
55	37	-179.6	-172.2	147861.9	5632.9	-375.9	-1.3
	38	-220.3	269.4	142713.5	5539.0	-481.1	-1.2
	39	-204.5	269.1	141607.6	5478.2	-441.9	-1.4
	40	-172.4	37.1	138530.2	5395.6	-362.7	-1.4
	41	-188.7	184.3	136998.3	5374.4	-404.3	-1.3
	42	-186.9	300.0	137292.9	5347.4	-399.8	-1.6
	43	-180.7	184.2	136445.4	5344.0	-384.7	-1.4

56	37	-266.5	-20561.5	74305.7	-20150.4	-630.4	6.8
	38	-272.8	-19816.2	72185.6	-19668.5	-647.7	6.6
	39	-283.7	-19666.6	71608.4	-19503.1	-675.1	6.5
	40	-250.2	-19202.6	69910.2	-19036.6	-591.6	6.5
	41	-250.4	-18979.1	69299.7	-18903.6	-592.8	6.5
	42	-279.5	-19042.9	69499.4	-18950.7	-665.4	6.4
	43	-255.9	-18904.4	69011.1	-18820.9	-606.5	6.4
57	37	629.5	-475.3	120416.8	1873.6	1486.1	-63.5
	38	642.2	-554.4	113917.6	2068.3	1529.1	-58.9
	39	605.9	-605.6	112088.3	2044.4	1442.9	-56.8
	40	562.6	-668.1	109862.3	2010.3	1339.6	-54.3
	41	572.9	-685.9	108000.8	2079.2	1368.4	-53.1
	42	553.7	-712.2	107055.9	2069.4	1322.9	-52.0
	43	554.7	-711.5	107086.1	2067.3	1325.2	-52.0
58	37	-202.1	-1398.6	191702.0	49063.5	-363.4	0.6
	38	-229.7	-1088.4	182032.6	46593.6	-440.6	-0.7
	39	-215.0	-1089.6	179009.8	45777.4	-404.7	-0.5
	40	-193.9	-1103.5	175216.0	44742.8	-352.9	-0.3
	41	-205.6	-999.9	172496.7	44055.6	-384.6	-0.8
	42	-199.7	-994.3	170992.9	43654.6	-370.2	-0.6
	43	-198.2	-1000.5	170985.3	43647.4	-366.7	-0.6
59	37	-443.2	490.7	205996.6	-38716.0	-958.3	-8.8
	38	-488.7	390.7	196180.9	-36800.0	-1080.4	-7.1
	39	-458.5	390.8	192863.6	-36151.8	-1005.6	-7.1
	40	-419.2	374.4	188556.6	-35325.6	-908.1	-7.2
	41	-439.3	341.1	185837.6	-34795.0	-961.2	-6.7
	42	-425.1	349.4	184259.1	-34478.8	-925.9	-6.6
	43	-424.3	341.1	184179.0	-34470.9	-923.8	-6.6
60	37	287.6	115.6	132250.9	-11834.2	705.3	42.4
	38	309.0	156.9	126089.0	-11510.8	765.2	39.4
	39	283.1	210.2	123973.0	-11317.1	703.7	37.6
	40	252.2	287.3	121136.1	-11074.5	630.4	35.3
	41	263.7	292.2	119434.8	-10998.9	660.6	34.7
	42	250.0	313.6	118472.8	-10902.4	628.2	33.7
	43	250.7	318.8	118376.8	-10902.1	629.9	33.7
111	37	-965.2	813.1	84554.5	-1174.3	-1321.0	-2.5
	38	-861.9	815.0	80113.1	-1176.3	-1172.6	-2.3
	39	-858.6	815.8	79533.2	-1178.3	-1167.9	-2.3
	40	-854.9	816.8	78812.6	-1180.9	-1163.4	-2.3
	41	-821.1	817.3	77428.8	-1181.2	-1114.7	-2.2
	42	-819.1	817.7	77136.7	-1182.1	-1111.7	-2.1
	43	-819.4	817.7	77138.9	-1182.2	-1112.4	-2.2
123	37	-1323.8	-218.1	147460.6	346.0	-1840.1	-2.5
	38	-1176.3	-222.3	139410.5	353.2	-1627.1	-2.3
	39	-1170.9	-222.1	138382.2	352.1	-1619.7	-2.3
	40	-1164.5	-221.9	137099.7	350.6	-1611.0	-2.3

	41	-1116.2	-223.3	134587.7	353.2	-1541.3	-2.2
	42	-1113.4	-223.2	134072.1	352.7	-1537.2	-2.1
	43	-1113.5	-223.2	134073.5	352.6	-1537.5	-2.2
135	37	-1327.0	250.1	131501.0	-344.2	-1833.2	-2.5
	38	-1179.5	255.9	124954.1	-352.0	-1621.6	-2.3
	39	-1174.4	257.4	123927.2	-354.9	-1614.5	-2.3
	40	-1167.9	259.2	122644.9	-358.7	-1605.8	-2.3
	41	-1119.7	260.9	120633.8	-360.7	-1536.5	-2.2
	42	-1117.0	261.6	120119.7	-362.2	-1532.9	-2.1
	43	-1117.1	261.6	120120.3	-362.2	-1532.9	-2.2
146	37	-1108.7	-1089.2	49030.7	1630.4	-1496.2	-2.5
	38	-990.8	-1093.8	47957.5	1638.2	-1329.7	-2.3
	39	-987.3	-1093.5	47421.1	1636.9	-1325.3	-2.3
	40	-982.8	-1093.2	46750.3	1635.3	-1319.4	-2.3
	41	-944.1	-1094.8	46481.9	1638.1	-1264.6	-2.2
	42	-942.4	-1094.7	46213.9	1637.5	-1262.7	-2.1
	43	-942.3	-1094.6	46213.7	1637.5	-1262.4	-2.2
Tot.	37	0.0	0.0	12330566.0	-776.5	7526.6	-99.2
Tot.	38	-0.0	-0.0	11533747.0	-507.1	6980.9	-89.3
Tot.	39	0.0	-0.0	11408465.0	-524.0	6941.0	-88.1
Tot.	40	0.0	-0.0	11241678.0	-579.8	6887.1	-88.7
Tot.	41	-0.0	-0.0	10996957.0	-487.2	6711.9	-85.6
Tot.	42	-0.0	-0.0	10939408.0	-478.3	6693.9	-84.0
Tot.	43	-0.0	0.0	10934314.0	-495.6	6691.9	-85.0

Combinazioni agli Stati Limite di Danno

Nodo	Comb.	Rx [kg]	Ry [kg]	Rz [kg]	Mx [kgm]	My [kgm]	Mz [kgm]
1	44	-4598.9	737.8	116928.2	-972.7	-14493.9	-37.7
	45	-4538.7	716.3	117493.9	-895.5	-14320.6	-30.7
	46	-4180.8	1099.7	119420.1	-2256.6	-13279.1	12.5
	47	-4120.7	1078.2	119985.8	-2179.4	-13105.8	19.5
	48	-4471.2	663.1	117612.5	-710.9	-14123.9	-20.7
	49	-4411.1	641.5	118178.2	-633.6	-13950.6	-13.6
	50	-4053.2	1025.0	120104.3	-1994.8	-12909.0	29.5
	51	-3993.0	1003.4	120670.0	-1917.6	-12735.8	36.6
	52	-1300.3	319.6	126304.9	517.2	-5106.9	-98.6
	53	-1262.0	297.2	126510.2	595.7	-4995.9	-93.5
	54	1967.0	323.9	137194.3	508.9	4216.2	-98.6
	55	2005.3	301.4	137399.5	587.5	4327.2	-93.5
	56	-1099.7	247.8	128190.5	774.6	-4529.3	-75.1
	57	-1061.4	225.4	128395.8	853.1	-4418.3	-69.9
	58	2167.6	252.1	139079.9	766.3	4793.8	-75.1
	59	2205.9	229.6	139285.2	844.9	4904.8	-69.9
	60	6292.1	752.1	153226.1	-1000.2	16583.1	-37.8
	61	6352.3	730.5	153791.8	-923.0	16756.4	-30.7
	62	6710.1	1113.9	155718.0	-2284.1	17797.9	12.5
	63	6770.3	1092.4	156283.7	-2206.9	17971.2	19.5
	64	6419.7	677.3	153910.4	-738.4	16953.1	-20.7
	65	6479.9	655.8	154476.1	-661.1	17126.4	-13.6
	66	6837.8	1039.2	156402.2	-2022.3	18168.0	29.5
	67	6898.0	1017.6	156967.9	-1945.1	18341.2	36.6
	68	93.2	1525.8	134611.0	-3762.6	-1057.5	68.8
	69	131.4	1503.4	134816.2	-3684.1	-946.5	73.9
	70	3360.5	1530.1	145500.3	-3770.9	8265.6	68.8
	71	3398.7	1507.7	145705.6	-3692.3	8376.6	73.9
	72	293.8	1454.0	136496.6	-3505.2	-479.9	92.3
	73	332.1	1431.6	136701.9	-3426.7	-368.9	97.5
	74	3561.1	1458.3	147386.0	-3513.5	8843.2	92.3
	75	3599.4	1435.9	147591.3	-3434.9	8954.2	97.5
2	44	-5063.3	18.6	194256.2	187.9	-15252.8	-37.7
	45	-5014.0	8.4	193053.8	254.7	-15097.6	-30.7
	46	-4706.5	144.3	194142.8	-623.6	-14139.0	12.5
	47	-4657.2	134.1	192940.4	-556.8	-13983.8	19.5
	48	-4954.9	-4.8	193940.7	331.4	-14914.5	-20.7
	49	-4905.6	-15.0	192738.3	398.2	-14759.3	-13.6
	50	-4598.1	120.9	193827.3	-480.1	-13800.7	29.5
	51	-4548.8	110.7	192624.9	-413.3	-13645.5	36.6
	52	-2064.3	-123.3	191897.5	1104.0	-6360.5	-98.6
	53	-2031.8	-130.3	191802.8	1147.1	-6259.0	-93.5
	54	879.9	-122.4	188654.6	1101.5	2429.0	-98.6

55	912.4	-129.4	188560.0	1144.5	2530.5	-93.5
56	-1899.9	-157.3	187889.5	1326.7	-5843.0	-75.1
57	-1867.4	-164.3	187794.8	1369.8	-5741.6	-69.9
58	1044.3	-156.5	184646.6	1324.2	2946.5	-75.1
59	1076.8	-163.5	184552.0	1367.2	3048.0	-69.9
60	4750.6	21.5	183446.6	179.4	14045.6	-37.8
61	4799.9	11.3	182244.2	246.2	14200.9	-30.7
62	5107.4	147.2	183333.3	-632.1	15159.4	12.5
63	5156.8	137.0	182130.8	-565.3	15314.6	19.5
64	4859.0	-1.9	183131.1	322.9	14383.9	-20.7
65	4908.3	-12.1	181928.7	389.7	14539.2	-13.6
66	5215.8	123.8	183017.8	-488.6	15497.7	29.5
67	5265.1	113.6	181815.3	-421.8	15652.9	36.6
68	-874.9	295.7	191519.6	-1601.1	-2647.9	68.8
69	-842.4	288.7	191424.9	-1558.1	-2546.4	73.9
70	2069.2	296.5	188276.7	-1603.7	6141.7	68.8
71	2101.8	289.5	188182.1	-1560.6	6243.2	73.9
72	-710.6	261.6	187511.5	-1378.4	-2130.4	92.3
73	-678.1	254.6	187416.9	-1335.4	-2028.9	97.5
74	2233.6	262.5	184268.7	-1381.0	6659.1	92.3
75	2266.1	255.5	184174.0	-1337.9	6760.6	97.5

3	44	-5167.9	-17.4	198429.5	224.9	-15426.2	-37.7
	45	-5116.5	-27.7	198426.1	296.5	-15267.6	-30.7
	46	-4803.5	77.8	198514.7	-457.4	-14299.8	12.5
	47	-4752.2	67.4	198511.3	-385.7	-14141.2	19.5
	48	-5056.9	-31.2	198415.0	316.6	-15083.6	-20.7
	49	-5005.5	-41.5	198411.6	388.2	-14924.9	-13.6
	50	-4692.5	64.0	198500.2	-365.6	-13957.2	29.5
	51	-4641.2	53.6	198496.8	-294.0	-13798.5	36.6
	52	-2155.5	-120.6	198184.1	967.1	-6511.2	-98.6
	53	-2122.2	-124.7	198179.8	994.6	-6408.4	-93.5
	54	809.1	-120.1	198059.8	965.2	2312.6	-98.6
	55	842.4	-124.3	198055.5	992.7	2415.4	-93.5
	56	-1984.3	-155.0	198172.6	1205.8	-5982.3	-75.1
	57	-1951.0	-159.1	198168.3	1233.3	-5879.5	-69.9
	58	980.3	-154.5	198048.3	1203.9	2841.5	-75.1
	59	1013.6	-158.6	198043.9	1231.4	2944.3	-69.9
	60	4713.8	-15.8	198015.2	218.6	13986.3	-37.8
	61	4765.2	-26.1	198011.7	290.2	14145.0	-30.7
	62	5078.2	79.4	198100.4	-463.7	15112.8	12.5
	63	5129.6	69.0	198096.9	-392.0	15271.4	19.5
	64	4824.8	-29.6	198000.7	310.3	14329.0	-20.7
	65	4876.2	-39.9	197997.2	381.9	14487.7	-13.6
	66	5189.2	65.6	198085.9	-371.9	15455.4	29.5
	67	5240.6	55.2	198082.4	-300.3	15614.1	36.6
	68	-940.9	196.5	198468.0	-1306.9	-2756.5	68.8
	69	-907.6	192.4	198463.7	-1279.4	-2653.7	73.9
	70	2023.6	197.0	198343.7	-1308.8	6067.3	68.8
	71	2056.9	192.8	198339.3	-1281.3	6170.1	73.9
	72	-769.7	162.1	198456.5	-1068.2	-2227.6	92.3
	73	-736.4	158.0	198452.1	-1040.7	-2124.8	97.5

	74	2194.8	162.6	198332.2	-1070.1	6596.2	92.3
	75	2228.1	158.5	198327.8	-1042.6	6699.0	97.5
4	44	-5153.4	155.7	202875.0	-73.5	-15402.1	-37.7
	45	-5102.5	143.1	202804.8	-0.9	-15244.3	-30.7
	46	-4791.3	260.5	203514.6	-710.3	-14279.5	12.5
	47	-4740.5	248.0	203444.4	-637.7	-14121.7	19.5
	48	-5043.1	145.9	202822.9	-19.9	-15060.7	-20.7
	49	-4992.3	133.3	202752.7	52.7	-14902.9	-13.6
	50	-4681.0	250.7	203462.5	-656.7	-13938.0	29.5
	51	-4630.2	238.2	203392.3	-584.2	-13780.3	36.6
	52	-2159.8	44.7	202199.5	602.2	-6518.2	-98.6
	53	-2126.7	41.8	202183.8	618.3	-6415.7	-93.5
	54	786.0	44.8	202205.5	601.0	2274.6	-98.6
	55	819.0	41.9	202189.9	617.1	2377.1	-93.5
	56	-1990.4	2.8	201965.4	844.2	-5992.2	-75.1
	57	-1957.3	-0.2	201949.8	860.3	-5889.8	-69.9
	58	955.4	2.9	201971.5	843.0	2800.6	-75.1
	59	988.5	-0.1	201955.9	859.1	2903.0	-69.9
	60	4665.8	156.1	202895.2	-77.4	13907.2	-37.8
	61	4716.7	143.5	202825.0	-4.9	14065.0	-30.7
	62	5027.9	261.0	203534.8	-714.3	15029.8	12.5
	63	5078.7	248.4	203464.6	-641.7	15187.6	19.5
	64	4776.1	146.3	202843.1	-23.9	14248.6	-20.7
	65	4826.9	133.7	202772.9	48.7	14406.4	-13.6
	66	5138.2	251.1	203482.8	-660.7	15371.3	29.5
	67	5189.0	238.6	203412.5	-588.1	15529.0	36.6
	68	-952.8	394.3	204331.6	-1520.7	-2776.0	68.8
	69	-919.7	391.4	204316.0	-1504.6	-2673.6	73.9
	70	1992.9	394.4	204337.7	-1521.9	6016.8	68.8
	71	2026.0	391.5	204322.1	-1505.8	6119.2	73.9
	72	-783.4	352.4	204097.6	-1278.7	-2250.1	92.3
	73	-750.3	349.4	204082.0	-1262.6	-2147.7	97.5
	74	2162.4	352.5	204103.7	-1279.9	6542.7	92.3
	75	2195.4	349.5	204088.0	-1263.8	6645.1	97.5
5	44	-5170.6	-0.7	198394.6	174.7	-15430.3	-37.7
	45	-5119.8	-9.0	198385.0	225.5	-15272.6	-30.7
	46	-4808.0	73.9	198494.4	-370.2	-14307.0	12.5
	47	-4757.2	65.6	198484.8	-319.5	-14149.3	19.5
	48	-5060.2	-5.3	198394.7	212.3	-15088.8	-20.7
	49	-5009.4	-13.6	198385.0	263.0	-14931.1	-13.6
	50	-4697.7	69.3	198494.5	-332.7	-13965.4	29.5
	51	-4646.9	61.0	198484.8	-281.9	-13807.7	36.6
	52	-2164.1	-79.5	198261.6	764.1	-6525.3	-98.6
	53	-2131.0	-80.9	198261.6	775.4	-6422.8	-93.5
	54	793.0	-79.3	198237.7	763.8	2286.3	-98.6
	55	826.1	-80.7	198237.7	775.1	2388.7	-93.5
	56	-1994.8	-107.1	198229.4	933.3	-5999.6	-75.1
	57	-1961.7	-108.5	198229.4	944.6	-5897.1	-69.9
	58	962.3	-107.0	198205.5	933.0	2812.0	-75.1
	59	995.4	-108.4	198205.5	944.3	2914.4	-69.9

60	4686.7	-0.2	198315.0	173.8	13941.5	-37.8
61	4737.4	-8.5	198305.3	224.5	14099.2	-30.7
62	5049.2	74.4	198414.8	-371.2	15064.8	12.5
63	5100.0	66.1	198405.2	-320.4	15222.5	19.5
64	4797.0	-4.8	198315.0	211.3	14283.0	-20.7
65	4847.8	-13.1	198305.4	262.1	14440.7	-13.6
66	5159.5	69.8	198414.9	-333.7	15406.4	29.5
67	5210.3	61.5	198405.2	-282.9	15564.1	36.6
68	-955.7	169.2	198594.3	-1052.5	-2780.7	68.8
69	-922.6	167.8	198594.3	-1041.2	-2678.2	73.9
70	2001.5	169.3	198570.4	-1052.8	6030.8	68.8
71	2034.6	167.9	198570.4	-1041.5	6133.3	73.9
72	-786.4	141.5	198562.1	-883.2	-2255.0	92.3
73	-753.3	140.1	198562.1	-872.0	-2152.5	97.5
74	2170.8	141.6	198538.2	-883.5	6556.5	92.3
75	2203.9	140.2	198538.2	-872.3	6659.0	97.5

6	44	-5166.8	160.9	203198.7	-38.7	-15424.2	-37.7
	45	-5116.0	156.6	203190.0	-21.7	-15266.4	-30.7
	46	-4804.2	245.2	203588.6	-588.0	-14300.7	12.5
	47	-4753.3	240.9	203579.9	-571.0	-14142.9	19.5
	48	-5056.4	160.9	203143.7	-40.5	-15082.6	-20.7
	49	-5005.5	156.6	203135.0	-23.5	-14924.7	-13.6
	50	-4693.8	245.1	203533.6	-589.9	-13959.1	29.5
	51	-4642.9	240.9	203524.8	-572.9	-13801.2	36.6
	52	-2163.7	71.1	202733.6	556.0	-6524.6	-98.6
	53	-2130.6	71.1	202717.1	555.4	-6422.1	-93.5
	54	790.8	74.0	202732.5	534.0	2282.5	-98.6
	55	823.9	74.0	202716.0	533.4	2385.0	-93.5
	56	-1994.1	56.8	202704.5	612.7	-5998.3	-75.1
	57	-1961.0	56.8	202688.0	612.2	-5895.8	-69.9
	58	960.4	59.7	202703.4	590.7	2808.8	-75.1
	59	993.5	59.7	202686.9	590.1	2911.3	-69.9
	60	4681.4	170.7	203195.2	-112.2	13932.9	-37.8
	61	4732.3	166.4	203186.4	-95.2	14090.7	-30.7
	62	5044.0	254.9	203585.0	-661.5	15056.4	12.5
	63	5094.9	250.7	203576.3	-644.5	15214.2	19.5
	64	4791.8	170.7	203140.1	-114.0	14274.5	-20.7
	65	4842.7	166.4	203131.4	-97.0	14432.4	-13.6
	66	5154.5	254.9	203530.0	-663.4	15398.0	29.5
	67	5205.3	250.6	203521.3	-646.4	15555.9	36.6
	68	-955.0	351.9	204033.1	-1275.2	-2779.6	68.8
	69	-921.9	351.9	204016.6	-1275.7	-2677.1	73.9
	70	1999.5	354.8	204032.0	-1297.2	6027.5	68.8
	71	2032.6	354.8	204015.5	-1297.8	6130.0	73.9
	72	-785.4	337.5	204004.0	-1218.5	-2253.4	92.3
	73	-752.3	337.5	203987.5	-1219.0	-2150.9	97.5
	74	2169.1	340.5	204002.9	-1240.5	6553.8	92.3
	75	2202.2	340.5	203986.4	-1241.1	6656.3	97.5
7	44	-5169.7	-12.3	198391.8	291.4	-15429.0	-37.7
	45	-5119.0	-10.1	198393.3	261.9	-15271.3	-30.7

46	-4807.5	58.1	198460.7	-249.2	-14306.2	12.5
47	-4756.8	60.3	198462.2	-278.7	-14148.5	19.5
48	-5059.5	1.1	198394.9	177.1	-15087.6	-20.7
49	-5008.7	3.3	198396.4	147.6	-14929.9	-13.6
50	-4697.3	71.5	198463.8	-363.5	-13964.8	29.5
51	-4646.5	73.7	198465.3	-393.0	-13807.1	36.6
52	-2163.3	-92.5	198315.3	915.9	-6523.9	-98.6
53	-2130.2	-88.5	198316.2	881.6	-6421.5	-93.5
54	793.5	-92.7	198319.3	915.3	2287.1	-98.6
55	826.6	-88.6	198320.2	881.1	2389.5	-93.5
56	-1994.1	-85.2	198320.5	817.5	-5998.3	-75.1
57	-1961.0	-81.2	198321.4	783.3	-5895.9	-69.9
58	962.7	-85.3	198324.4	817.0	2812.6	-75.1
59	995.8	-81.3	198325.4	782.7	2915.0	-69.9
60	4686.3	-12.7	198405.0	289.6	13940.9	-37.8
61	4737.1	-10.5	198406.5	260.1	14098.6	-30.7
62	5048.5	57.8	198473.8	-251.0	15063.7	12.5
63	5099.3	60.0	198475.4	-280.5	15221.4	19.5
64	4796.6	0.7	198408.1	175.3	14282.3	-20.7
65	4847.3	2.9	198409.6	145.8	14440.0	-13.6
66	5158.8	71.2	198477.0	-365.3	15405.1	29.5
67	5209.5	73.4	198478.5	-394.8	15562.8	36.6
68	-956.0	142.3	198544.9	-886.1	-2781.3	68.8
69	-922.9	146.3	198545.8	-920.4	-2678.8	73.9
70	2000.8	142.2	198548.9	-886.7	6029.7	68.8
71	2033.9	146.2	198549.8	-920.9	6132.1	73.9
72	-786.8	149.7	198550.1	-984.5	-2255.7	92.3
73	-753.7	153.7	198551.0	-1018.8	-2153.3	97.5
74	2170.0	149.5	198554.0	-985.0	6555.3	92.3
75	2203.1	153.6	198555.0	-1019.3	6657.7	97.5

8	44	-5154.9	139.7	203784.5	99.5	-15404.5	-37.7
	45	-5104.1	151.7	203788.5	16.2	-15246.9	-30.7
	46	-4793.1	232.5	204024.7	-519.5	-14282.5	12.5
	47	-4742.4	244.5	204028.6	-602.8	-14124.8	19.5
	48	-5044.7	164.4	203814.5	-70.4	-15063.3	-20.7
	49	-4994.0	176.4	203818.4	-153.6	-14905.7	-13.6
	50	-4683.0	257.3	204054.6	-689.4	-13941.2	29.5
	51	-4632.2	269.3	204058.5	-772.6	-13783.6	36.6
	52	-2157.0	25.8	203457.6	858.7	-6513.6	-98.6
	53	-2124.0	33.2	203466.6	807.8	-6411.2	-93.5
	54	792.0	25.6	203412.5	858.3	2284.6	-98.6
	55	825.1	33.0	203421.5	807.3	2387.0	-93.5
	56	-1987.9	65.9	203470.8	581.3	-5988.1	-75.1
	57	-1954.8	73.3	203479.8	530.4	-5885.7	-69.9
	58	961.2	65.7	203425.7	580.9	2810.1	-75.1
	59	994.2	73.1	203434.7	529.9	2912.5	-69.9
	60	4675.3	139.1	203634.2	98.0	13922.8	-37.8
	61	4726.1	151.1	203638.1	14.8	14080.4	-30.7
	62	5037.1	231.9	203874.3	-521.0	15044.8	12.5
	63	5087.8	243.9	203878.2	-604.2	15202.5	19.5
	64	4785.4	163.8	203664.1	-71.9	14264.0	-20.7

65	4836.2	175.8	203668.0	-155.1	14421.6	-13.6
66	5147.2	256.7	203904.2	-690.9	15386.1	29.5
67	5198.0	268.7	203908.1	-774.1	15543.7	36.6
68	-951.2	335.3	204258.0	-1204.6	-2773.3	68.8
69	-918.1	342.7	204267.0	-1255.5	-2670.9	73.9
70	1997.9	335.1	204212.9	-1205.0	6024.9	68.8
71	2030.9	342.5	204221.8	-1256.0	6127.3	73.9
72	-782.0	375.3	204271.2	-1482.0	-2247.8	92.3
73	-749.0	382.7	204280.2	-1532.9	-2145.4	97.5
74	2167.1	375.1	204226.1	-1482.4	6550.4	92.3
75	2200.1	382.6	204235.0	-1533.4	6652.8	97.5

9	44	-5353.5	-79.6	192078.3	528.5	-15731.4	-37.7
	45	-5288.9	-57.0	192736.2	393.3	-15550.8	-30.7
	46	-4951.5	31.4	195199.5	-179.9	-14543.6	12.5
	47	-4887.0	54.0	195857.3	-315.2	-14363.0	19.5
	48	-5228.5	-43.9	192826.5	303.5	-15365.7	-20.7
	49	-5164.0	-21.4	193484.3	168.2	-15185.1	-13.6
	50	-4826.6	67.1	195947.6	-405.0	-14177.9	29.5
	51	-4762.0	89.6	196605.5	-540.2	-13997.3	36.6
	52	-2351.5	-223.5	188451.3	1434.2	-6833.1	-98.6
	53	-2314.0	-212.9	188675.7	1366.7	-6723.4	-93.5
	54	650.7	-224.1	188896.9	1434.3	2052.7	-98.6
	55	688.2	-213.4	189121.4	1366.8	2162.4	-93.5
	56	-2136.2	-148.3	190644.0	983.4	-6231.0	-75.1
	57	-2098.7	-137.6	190868.4	915.9	-6121.3	-69.9
	58	866.0	-148.8	191089.6	983.5	2654.8	-75.1
	59	903.5	-138.1	191314.1	916.0	2764.5	-69.9
	60	4653.9	-81.3	193563.9	528.9	13887.9	-37.8
	61	4718.4	-58.7	194221.7	393.7	14068.6	-30.7
	62	5055.8	29.7	196685.1	-179.5	15075.7	12.5
	63	5120.4	52.3	197342.9	-314.8	15256.3	19.5
	64	4778.8	-45.6	194312.0	303.9	14253.6	-20.7
	65	4843.4	-23.0	194969.8	168.6	14434.2	-13.6
	66	5180.8	65.4	197433.2	-404.6	15441.4	29.5
	67	5245.3	88.0	198091.0	-539.8	15622.0	36.6
	68	-1011.6	146.5	198855.3	-927.3	-2873.9	68.8
	69	-974.1	157.2	199079.7	-994.8	-2764.2	73.9
	70	1990.6	146.0	199300.9	-927.2	6011.9	68.8
	71	2028.1	156.7	199525.4	-994.7	6121.6	73.9
	72	-796.4	221.7	201048.0	-1378.1	-2271.8	92.3
	73	-758.9	232.4	201272.4	-1445.6	-2162.1	97.5
	74	2205.8	221.2	201493.6	-1378.0	6614.0	92.3
	75	2243.3	231.9	201718.1	-1445.5	6723.7	97.5

10	44	-5094.2	-594.0	97165.4	1454.1	-15302.5	-37.7
	45	-5050.0	-480.9	103796.5	1137.5	-15155.7	-30.7
	46	-4775.5	-77.4	128516.4	-3.8	-14251.4	12.5
	47	-4731.3	35.6	135147.5	-320.3	-14104.7	19.5
	48	-4997.3	-416.8	104223.0	957.3	-14983.1	-20.7
	49	-4953.1	-303.8	110854.1	640.8	-14836.3	-13.6
	50	-4678.6	99.8	135574.0	-500.6	-13932.0	29.5

51	-4634.4	212.8	142205.1	-817.1	-13785.3	36.6
52	-2378.5	-1273.2	60452.8	3360.6	-6876.4	-98.6
53	-2349.4	-1220.0	62570.1	3211.6	-6780.6	-93.5
54	283.1	-1278.9	64849.7	3369.5	1447.9	-98.6
55	312.1	-1225.8	66967.0	3220.4	1543.8	-93.5
56	-2231.2	-896.5	82556.3	2305.6	-6387.3	-75.1
57	-2202.2	-843.3	84673.6	2156.5	-6291.4	-69.9
58	430.3	-902.2	86953.2	2314.4	1937.1	-75.1
59	459.3	-849.1	89070.5	2165.4	2032.9	-69.9
60	3777.6	-613.1	111821.6	1483.5	12445.3	-37.8
61	3821.7	-500.1	118452.7	1167.0	12592.1	-30.7
62	4096.3	-96.5	143172.6	25.7	13496.4	12.5
63	4140.4	16.5	149803.7	-290.9	13643.1	19.5
64	3874.5	-436.0	118879.3	986.8	12764.7	-20.7
65	3918.6	-322.9	125510.3	670.2	12911.5	-13.6
66	4193.2	80.6	150230.3	-471.1	13815.8	29.5
67	4237.3	193.6	156861.3	-787.6	13962.5	36.6
68	-1316.2	448.8	164956.2	-1498.9	-3372.9	68.8
69	-1287.1	501.9	167073.5	-1647.9	-3277.1	73.9
70	1345.3	443.0	169353.1	-1490.1	4951.5	68.8
71	1374.4	496.2	171470.4	-1639.1	5047.3	73.9
72	-1169.0	825.5	187059.7	-2554.0	-2883.7	92.3
73	-1139.9	878.6	189177.0	-2703.0	-2787.9	97.5
74	1492.6	819.7	191456.6	-2545.2	5440.6	92.3
75	1521.6	872.9	193573.9	-2694.2	5536.4	97.5

12	44	-4880.6	-401.2	176767.7	908.8	-14689.3	-37.7
	45	-4858.5	-429.0	178828.0	996.4	-14629.8	-30.7
	46	-4725.8	87.9	176908.7	-585.8	-14272.5	12.5
	47	-4703.7	60.1	178969.0	-498.2	-14213.1	19.5
	48	-4834.8	-502.9	177293.5	1215.5	-14566.3	-20.7
	49	-4812.8	-530.7	179353.8	1303.1	-14506.9	-13.6
	50	-4680.1	-13.8	177434.5	-279.1	-14149.6	29.5
	51	-4658.0	-41.6	179494.8	-191.4	-14090.1	36.6
	52	-669.4	-970.8	195728.7	2649.4	-3355.0	-98.6
	53	-655.7	-1001.3	195886.4	2741.4	-3318.1	-93.5
	54	3103.3	-967.2	214024.6	2642.3	6799.4	-98.6
	55	3117.0	-997.7	214182.3	2734.3	6836.3	-93.5
	56	-595.8	-1063.5	202596.4	2941.4	-3156.9	-75.1
	57	-582.1	-1094.0	202754.2	3033.4	-3120.0	-69.9
	58	3176.9	-1059.9	220892.3	2934.4	6997.6	-75.1
	59	3190.6	-1090.5	221050.1	3026.4	7034.4	-69.9
	60	7695.0	-389.2	237754.0	885.3	19158.8	-37.8
	61	7717.1	-417.1	239814.3	972.9	19218.2	-30.7
	62	7849.8	99.9	237895.1	-609.2	19575.6	12.5
	63	7871.9	72.1	239955.4	-521.6	19635.0	19.5
	64	7740.8	-490.9	238279.8	-1192.1	19281.7	-20.7
	65	7762.9	-518.8	240340.2	1279.7	19341.2	-13.6
	66	7895.5	-1.8	238420.9	-302.5	19698.5	29.5
	67	7917.6	-29.7	240481.2	-214.9	19757.9	36.6
	68	-153.6	659.6	196198.8	-2332.5	-1965.8	68.8
	69	-139.9	629.1	196356.5	-2240.5	-1928.9	73.9

70	3619.1	663.2	214494.7	-2339.5	8188.6	68.8
71	3632.8	632.7	214652.4	-2247.5	8225.5	73.9
72	-79.9	566.9	203066.5	-2040.5	-1767.6	92.3
73	-66.2	536.4	203224.3	-1948.4	-1730.7	97.5
74	3692.8	570.5	221362.4	-2047.5	8386.8	92.3
75	3706.5	539.9	221520.2	-1955.5	8423.7	97.5

13	44	-14364.3	-246.3	169017.7	1287.2	-40486.4	-130.5
	45	-14437.1	-286.8	165487.9	1555.5	-40517.9	-106.1
	46	-13799.8	259.7	202997.1	-1983.6	-39648.3	43.2
	47	-13872.6	219.2	199467.3	-1715.3	-39679.7	67.6
	48	-14385.5	-341.5	165401.3	1867.4	-40397.6	-71.5
	49	-14458.3	-382.0	161871.5	2135.7	-40429.1	-47.1
	50	-13821.1	164.5	199380.6	-1403.4	-39559.5	102.2
	51	-13893.9	124.0	195850.8	-1135.1	-39590.9	126.6
	52	-6046.7	-818.1	171074.0	4980.4	-14920.0	-341.0
	53	-6053.1	-846.7	169989.1	5154.5	-14893.3	-323.3
	54	1580.6	-814.2	204371.1	4969.5	7774.2	-341.0
	55	1574.2	-842.8	203286.1	5143.5	7800.9	-323.3
	56	-6289.5	-953.2	159308.0	5874.8	-15024.8	-259.6
	57	-6295.8	-981.7	158223.1	6048.8	-14998.1	-241.9
	58	1337.8	-949.3	192605.1	5863.8	7669.4	-259.6
	59	1331.5	-977.8	191520.2	6037.9	7696.0	-241.9
	60	11060.1	-233.2	280008.0	1250.7	35160.8	-130.6
	61	10987.3	-273.7	276478.2	1519.0	35129.4	-106.2
	62	11624.6	272.8	313987.3	-2020.1	35999.0	43.1
	63	11551.7	232.3	310457.6	-1751.8	35967.5	67.5
	64	11038.9	-328.5	276391.5	1830.9	35249.6	-71.6
	65	10966.0	-369.0	272861.8	2099.2	35218.2	-47.2
	66	11603.3	177.6	310370.9	-1439.9	36087.8	102.1
	67	11530.5	137.1	306841.2	-1171.5	36056.3	126.5
	68	-4165.2	868.6	284338.6	-5922.2	-12126.1	237.9
	69	-4171.6	840.0	283253.7	-5748.2	-12099.5	255.6
	70	3462.1	872.5	317635.7	-5933.2	10568.0	237.9
	71	3455.7	843.9	316550.8	-5759.1	10594.7	255.6
	72	-4408.0	733.6	272572.7	-5027.9	-12231.0	319.3
	73	-4414.4	705.0	271487.8	-4853.8	-12204.3	337.0
	74	3219.3	737.5	305869.8	-5038.8	10463.2	319.3
	75	3213.0	708.9	304784.8	-4864.8	10489.8	337.0

14	44	-26995.1	-8508.5	-22783.4	7716.1	-73767.0	3630.4
	45	-26924.6	-17165.0	-38987.2	13021.4	-73626.0	3628.1
	46	-26451.1	80106.6	142821.5	-46295.2	-72429.4	3617.7
	47	-26380.5	71450.0	126617.6	-40989.9	-72288.4	3615.5
	48	-26864.4	-21347.3	-46539.9	15778.0	-73465.7	3627.4
	49	-26793.8	-30003.9	-62743.7	21083.3	-73324.8	3625.1
	50	-26320.3	67267.8	119065.0	-38233.3	-72128.1	3614.8
	51	-26249.8	58611.2	102861.1	-32928.0	-71987.2	3612.5
	52	-9491.3	-106893.1	-205280.1	67709.2	-25527.2	1106.9
	53	-9452.0	-110744.7	-212407.0	70127.8	-25436.8	1106.0
	54	6087.4	-107412.6	-205177.9	68007.3	17209.3	-1070.1
	55	6126.6	-111264.3	-212304.8	70425.9	17299.7	-1071.0

56	-9256.1	-135748.4	-259292.9	85393.5	-25057.4	1099.3
57	-9216.9	-139600.0	-266419.9	87812.0	-24967.0	1098.4
58	6322.6	-136267.9	-259190.7	85691.5	17679.1	-1077.7
59	6361.8	-140119.5	-266317.7	88110.1	17769.5	-1078.6
60	24933.7	-10240.3	-22442.7	8709.6	68688.1	-3626.4
61	25004.2	-18896.9	-38646.5	14014.9	68829.1	-3628.6
62	25477.7	78374.8	143162.1	-45301.7	70025.7	-3639.0
63	25548.3	69718.2	126958.3	-39996.4	70166.7	-3641.3
64	25064.4	-23079.1	-46199.2	16771.6	68989.4	-3629.3
65	25135.0	-31735.7	-62403.1	22076.9	69130.3	-3631.6
66	25608.5	65536.0	119405.6	-37239.7	70327.0	-3642.0
67	25679.0	56879.4	103201.8	-31934.4	70467.9	-3644.3
68	-7677.9	188490.5	346736.1	-112328.5	-21068.6	1064.8
69	-7638.6	184638.8	339609.1	-109909.9	-20978.2	1063.9
70	7900.8	187970.9	346838.3	-112030.4	21668.0	-1112.3
71	7940.0	184119.3	339711.3	-109611.8	21758.3	-1113.2
72	-7442.7	159635.2	292723.3	-94644.2	-20598.8	1057.1
73	-7403.5	155783.5	285596.3	-92225.6	-20508.4	1056.2
74	8136.0	159115.6	292825.5	-94346.1	22137.8	-1119.9
75	8175.2	155264.0	285698.5	-91927.5	22228.2	-1120.8

15	44	-50722.4	-3178.8	15596.7	18415.5	-192114.6	1450.8
	45	-50547.7	-8621.4	-11327.7	20536.2	-191464.8	1468.2
	46	-49455.9	44750.2	260619.2	2157.9	-187469.8	1574.2
	47	-49281.2	39307.6	233694.8	4278.5	-186820.0	1591.6
	48	-50340.2	-10743.5	-18511.1	23522.2	-190727.8	1492.2
	49	-50165.4	-16186.0	-45435.5	25642.8	-190078.1	1509.6
	50	-49073.7	37185.5	226511.4	7264.5	-186083.0	1615.6
	51	-48898.9	31742.9	199587.0	9385.1	-185433.3	1633.0
	52	-17619.8	-54260.2	-239023.3	37006.0	-65872.9	215.7
	53	-17505.1	-56529.6	-249255.6	38538.0	-65456.9	228.1
	54	12080.4	-53288.4	-228938.7	37271.6	47212.8	-714.6
	55	12195.1	-55557.8	-239171.0	38803.6	47628.8	-702.2
	56	-17037.3	-72402.1	-328771.4	44074.7	-63707.1	273.8
	57	-16922.6	-74671.5	-339003.8	45606.7	-63291.1	286.2
	58	12662.9	-71430.3	-318686.8	44340.4	49378.6	-656.5
	59	12777.6	-73699.7	-328919.1	45872.4	49794.6	-644.1
	60	48278.3	60.5	49212.1	19301.0	184837.7	-1650.2
	61	48453.1	-5382.1	22287.7	21421.6	185487.4	-1632.7
	62	49544.8	47989.5	294234.6	3043.3	189482.5	-1526.8
	63	49719.6	42546.9	267310.1	5163.9	190132.2	-1509.4
	64	48660.6	-7504.2	15104.3	24407.6	186224.4	-1608.8
	65	48835.3	-12946.7	-11820.1	26528.3	186874.2	-1591.3
	66	49927.1	40424.8	260126.8	8149.9	190869.2	-1485.4
	67	50101.8	34982.3	233202.3	10270.6	191519.0	-1467.9
	68	-13398.2	105503.1	577718.2	-17186.3	-50390.2	626.9
	69	-13283.5	103233.7	567485.9	-15654.3	-49974.2	639.3
	70	16302.0	106474.9	587802.8	-16920.6	62695.4	-303.4
	71	16416.7	104205.5	577570.4	-15388.6	63111.5	-291.0
	72	-12815.7	87361.2	487970.1	-10117.5	-48224.4	685.0
	73	-12701.0	85091.8	477737.8	-8585.5	-47808.4	697.4
	74	16884.5	88333.0	498054.7	-9851.9	64861.3	-245.3

	75	16999.2	86063.6	487822.4	-8319.9	65277.3	-232.8
16	44	-23412.8	286.2	-8792.3	2446.7	-64612.9	3544.6
	45	-23306.4	-7975.1	-24348.5	7539.8	-64355.4	3547.9
	46	-22631.9	74390.0	131058.6	-42365.1	-62714.9	3566.9
	47	-22525.6	66128.7	115502.3	-37271.9	-62457.4	3570.3
	48	-23179.3	-11909.0	-26447.3	9693.9	-64047.8	3539.3
	49	-23072.9	-20170.3	-42003.6	14787.0	-63790.3	3542.7
	50	-22398.4	62194.9	113403.5	-35117.8	-62149.8	3561.7
	51	-22292.1	53933.6	97847.2	-30024.7	-61892.3	3565.0
	52	-7115.3	-81913.4	-161302.4	52073.6	-19434.2	990.5
	53	-7045.3	-85571.9	-166598.9	54247.8	-19264.6	988.9
	54	7671.0	-82869.1	-162434.3	52718.3	21276.3	-1171.5
	55	7741.1	-86527.6	-167730.8	54892.5	21445.9	-1173.1
	56	-6760.9	-109451.1	-213156.6	69050.7	-18576.0	1001.6
	57	-6690.8	-113109.6	-218453.1	71224.9	-18406.4	1000.0
	58	8025.5	-110406.8	-214288.5	69695.4	22134.5	-1160.5
	59	8095.5	-114065.3	-219585.0	71869.5	22304.1	-1162.1
	60	25875.1	-2899.4	-12565.1	4595.5	71088.8	-3662.1
	61	25981.5	-11160.7	-28121.4	9688.6	71346.3	-3658.8
	62	26656.0	71204.5	127285.7	-40216.3	72986.8	-3639.8
	63	26762.3	62943.1	111729.5	-35123.1	73244.3	-3636.5
	64	26108.6	-15094.5	-30220.2	11842.7	71653.9	-3667.4
	65	26214.9	-23355.9	-45776.5	16935.8	71911.4	-3664.1
	66	26889.4	59009.3	109630.7	-32969.0	73551.9	-3645.1
	67	26995.8	50748.0	94074.4	-27875.9	73809.4	-3641.8
	68	-4512.5	165099.5	304867.1	-97298.8	-13107.6	1064.9
	69	-4442.5	161440.9	299570.6	-95124.6	-12938.0	1063.3
	70	10273.8	164143.8	303735.3	-96654.1	27602.9	-1097.1
	71	10343.9	160485.3	298438.8	-94480.0	27772.5	-1098.7
	72	-4158.0	137561.8	253012.9	-80321.7	-12249.4	1075.9
	73	-4088.0	133903.2	247716.4	-78147.5	-12079.8	1074.3
	74	10628.3	136606.1	251881.0	-79677.1	28461.1	-1086.1
	75	10698.4	132947.5	246584.5	-77502.9	28630.7	-1087.7
17	44	-10963.6	1549.7	321987.3	-1825.8	-34717.4	-130.5
	45	-10942.2	1502.3	320323.8	-1597.2	-34735.4	-106.1
	46	-11504.9	2018.2	337023.3	-4307.1	-35977.6	43.2
	47	-11483.5	1970.8	335359.7	-4078.5	-35995.6	67.6
	48	-10861.9	1518.3	321223.5	-1652.2	-34427.7	-71.5
	49	-10840.5	1470.9	319560.0	-1423.6	-34445.7	-47.1
	50	-11403.1	1986.7	336259.4	-4133.5	-35687.9	102.2
	51	-11381.7	1939.3	334595.9	-3905.0	-35705.8	126.6
	52	-1851.8	1048.3	296324.7	861.9	-7347.2	-341.0
	53	-1821.3	1038.9	296095.5	913.9	-7260.3	-323.3
	54	5408.0	1049.0	287929.6	860.7	14748.0	-341.0
	55	5438.5	1039.6	287700.5	912.7	14834.9	-323.3
	56	-1780.4	890.3	290779.6	1623.7	-7407.1	-259.6
	57	-1749.9	880.9	290550.4	1675.8	-7320.2	-241.9
	58	5479.3	891.0	282384.6	1622.6	14688.1	-259.6
	59	5509.9	881.6	282155.4	1674.6	14775.0	-241.9
	60	13235.6	1552.0	294003.9	-1829.7	38933.2	-130.6

61	13257.0	1504.6	292340.4	-1601.1	38915.3	-106.2
62	12694.3	2020.4	309039.8	-4311.0	37673.1	43.1
63	12715.8	1973.0	307376.3	-4082.5	37655.1	67.5
64	13337.4	1520.5	293240.1	-1656.1	39222.9	-71.6
65	13358.8	1473.1	291576.6	-1427.6	39205.0	-47.2
66	12796.1	1989.0	308276.0	-4137.5	37962.8	102.1
67	12817.5	1941.6	306612.5	-3908.9	37944.8	126.5
68	-3656.0	2609.7	346444.4	-7409.3	-11547.6	237.9
69	-3625.5	2600.3	346215.3	-7357.2	-11460.7	255.6
70	3603.8	2610.4	338049.4	-7410.5	10547.6	237.9
71	3634.3	2601.0	337820.2	-7358.4	10634.5	255.6
72	-3584.6	2451.7	340899.3	-6647.4	-11607.5	319.3
73	-3554.1	2442.3	340670.2	-6595.3	-11520.6	337.0
74	3675.2	2452.4	332504.3	-6648.6	10487.7	319.3
75	3705.7	2443.0	332275.2	-6596.5	10574.6	337.0

18	44	-11325.0	-126.5	336635.4	1123.5	-35764.4	-130.5
	45	-11290.4	-143.7	336699.3	1191.4	-35647.9	-106.1
	46	-11079.4	179.4	336012.2	-1031.3	-34942.4	43.2
	47	-11044.8	162.2	336076.1	-963.4	-34826.0	67.6
	48	-11253.0	-126.8	336705.1	1116.3	-35523.1	-71.5
	49	-11218.4	-144.1	336768.9	1184.2	-35406.6	-47.1
	50	-11007.4	179.1	336081.9	-1038.5	-34701.1	102.2
	51	-10972.7	161.8	336145.8	-970.5	-34584.7	126.6
	52	-3828.4	-451.4	337622.9	3455.1	-12092.4	-341.0
	53	-3806.8	-451.5	337643.8	3452.9	-12020.0	-323.3
	54	2855.9	-441.2	337889.2	3368.9	9063.8	-341.0
	55	2877.5	-441.3	337910.1	3366.8	9136.2	-323.3
	56	-3712.9	-509.0	337835.9	3681.6	-11704.2	-259.6
	57	-3691.3	-509.1	337856.8	3679.4	-11631.9	-241.9
	58	2971.4	-498.8	338102.2	3595.4	9452.0	-259.6
	59	2993.0	-498.9	338123.1	3593.3	9524.4	-241.9
	60	10956.1	-92.4	337522.9	836.2	34756.5	-130.6
	61	10990.7	-109.7	337586.8	904.2	34872.9	-106.2
	62	11201.7	213.5	336899.8	-1318.6	35578.4	43.1
	63	11236.3	196.2	336963.6	-1250.6	35694.9	67.5
	64	11028.1	-92.8	337592.6	829.1	34997.8	-71.6
	65	11062.7	-110.1	337656.5	897.0	35114.2	-47.2
	66	11273.7	213.1	336969.4	-1325.7	35819.7	102.1
	67	11308.4	195.8	337033.3	-1257.8	35936.2	126.5
	68	-3009.7	568.2	335545.6	-3727.6	-9352.6	237.9
	69	-2988.1	568.1	335566.5	-3729.7	-9280.2	255.6
	70	3674.7	578.4	335811.9	-3813.7	11803.6	237.9
	71	3696.3	578.3	335832.8	-3815.9	11876.0	255.6
	72	-2894.2	510.7	335758.6	-3501.1	-8964.4	319.3
	73	-2872.6	510.6	335779.5	-3503.2	-8892.0	337.0
	74	3790.1	520.9	336024.9	-3587.2	12191.8	319.3
	75	3811.7	520.8	336045.8	-3589.4	12264.2	337.0

19	44	-11345.7	-167.5	322966.2	1368.0	-35797.4	-130.5
	45	-11311.1	-159.1	322966.5	1249.7	-35681.0	-106.1
	46	-11096.7	104.4	322941.0	-789.0	-34970.1	43.2

47	-11062.2	112.8	322941.3	-907.2	-34853.8	67.6
48	-11272.8	-116.1	323022.2	911.6	-35554.7	-71.5
49	-11238.2	-107.7	323022.5	793.3	-35438.3	-47.1
50	-11023.9	155.8	322996.9	-1245.3	-34727.4	102.2
51	-10989.3	164.2	322997.2	-1363.6	-34611.1	126.6
52	-3803.5	-477.2	323016.3	3860.3	-12051.3	-341.0
53	-3781.6	-461.8	323033.1	3723.4	-11978.5	-323.3
54	2922.9	-477.7	323017.5	3858.3	9173.2	-341.0
55	2944.8	-462.3	323034.3	3721.4	9246.0	-323.3
56	-3688.2	-449.1	323017.3	3466.0	-11663.5	-259.6
57	-3666.3	-433.7	323034.1	3329.1	-11590.7	-241.9
58	3038.2	-449.6	323018.6	3464.0	9561.1	-259.6
59	3060.1	-434.2	323035.3	3327.1	9633.9	-241.9
60	11075.6	-169.1	322970.2	1361.2	34951.1	-130.6
61	11110.2	-160.7	322970.5	1242.9	35067.5	-106.2
62	11324.6	102.8	322945.0	-795.8	35778.4	43.1
63	11359.1	111.2	322945.3	-914.1	35894.8	67.5
64	11148.5	-117.8	323026.2	904.8	35193.8	-71.6
65	11183.1	-109.4	323026.5	786.5	35310.2	-47.2
66	11397.5	154.1	323000.9	-1252.2	36021.1	102.1
67	11432.0	162.6	323001.2	-1370.4	36137.4	126.5
68	-2973.7	429.2	322932.1	-3329.5	-9293.8	237.9
69	-2951.8	444.6	322948.9	-3466.4	-9221.0	255.6
70	3752.7	428.7	322933.3	-3331.6	11930.7	237.9
71	3774.6	444.1	322950.1	-3468.5	12003.5	255.6
72	-2858.4	457.3	322933.1	-3723.8	-8906.0	319.3
73	-2836.6	472.7	322949.9	-3860.7	-8833.2	337.0
74	3867.9	456.8	322934.3	-3725.9	12318.6	319.3
75	3889.8	472.2	322951.1	-3862.8	12391.4	337.0

20	44	-11322.2	-271.8	333041.6	1775.6	-35759.0	-130.5
	45	-11287.9	-230.8	333078.2	1453.2	-35643.1	-106.1
	46	-11073.4	49.7	333264.2	-626.5	-34932.1	43.2
	47	-11039.1	90.7	333300.8	-948.9	-34816.2	67.6
	48	-11249.5	-187.6	333092.3	1117.2	-35516.6	-71.5
	49	-11215.2	-146.6	333128.9	794.8	-35400.7	-47.1
	50	-11000.7	133.9	333314.9	-1284.9	-34689.7	102.2
	51	-10966.4	174.9	333351.5	-1607.3	-34573.8	126.6
	52	-3791.4	-666.3	332703.0	4721.9	-12031.6	-341.0
	53	-3769.6	-641.0	332718.2	4524.4	-11958.9	-323.3
	54	2924.8	-667.2	332656.6	4720.4	9176.3	-341.0
	55	2946.6	-641.9	332671.8	4522.8	9249.0	-323.3
	56	-3677.1	-529.8	332824.9	3647.3	-11645.3	-259.6
	57	-3655.3	-504.5	332840.1	3449.7	-11572.6	-241.9
	58	3039.1	-530.7	332778.5	3645.7	9562.6	-259.6
	59	3060.9	-505.4	332793.7	3448.2	9635.3	-241.9
	60	11065.1	-274.8	332887.0	1770.4	34934.0	-130.6
	61	11099.4	-233.9	332923.6	1448.1	35049.9	-106.2
	62	11313.9	46.7	333109.6	-631.6	35760.9	43.1
	63	11348.2	87.7	333146.2	-954.0	35876.8	67.5
	64	11137.8	-190.6	332937.8	1112.0	35176.4	-71.6
	65	11172.1	-149.7	332974.3	789.6	35292.3	-47.2

66	11386.6	130.9	333160.3	-1290.1	36003.3	102.1
67	11420.9	171.9	333196.9	-1612.5	36119.2	126.5
68	-2962.2	405.5	333444.8	-3285.1	-9275.1	237.9
69	-2940.4	430.8	333460.0	-3482.6	-9202.4	255.6
70	3754.0	404.6	333398.4	-3286.6	11932.8	237.9
71	3775.8	429.9	333413.6	-3484.1	12005.5	255.6
72	-2847.9	542.0	333566.7	-4359.7	-8888.8	319.3
73	-2826.1	567.2	333581.9	-4557.2	-8816.1	337.0
74	3868.3	541.1	333520.3	-4361.2	12319.1	319.3
75	3890.1	566.3	333535.5	-4558.8	12391.8	337.0

21	44	-11511.2	-241.1	321370.8	1993.0	-36067.7	-130.5
	45	-11274.6	-173.2	321089.7	1488.3	-35963.1	-106.1
	46	-11483.7	97.4	319990.7	-673.4	-35262.1	43.2
	47	-11247.1	165.3	319709.6	-1178.1	-35157.6	67.6
	48	-11444.6	-135.4	321006.9	1149.8	-35835.4	-71.5
	49	-11208.0	-67.5	320725.8	645.1	-35730.9	-47.1
	50	-11417.2	203.2	319626.9	-1516.6	-35029.9	102.2
	51	-11180.6	271.0	319345.8	-2021.3	-34925.4	126.6
	52	-3871.6	-679.9	323888.8	5396.8	-12160.0	-341.0
	53	-3851.7	-648.2	323779.7	5143.9	-12090.3	-323.3
	54	2920.6	-681.4	324495.3	5396.2	9172.8	-341.0
	55	2940.6	-649.7	324386.1	5143.2	9242.4	-323.3
	56	-3082.9	-453.8	322951.9	3714.5	-11811.5	-259.6
	57	-3063.0	-422.1	322842.7	3461.5	-11741.8	-241.9
	58	3709.4	-455.3	323558.3	3713.8	9521.2	-259.6
	59	3729.3	-423.6	323449.1	3460.9	9590.9	-241.9
	60	11129.8	-246.1	323392.0	1991.0	35041.4	-130.6
	61	11366.4	-178.2	323110.9	1486.2	35146.0	-106.2
	62	11157.3	92.5	322012.0	-675.5	35847.0	43.1
	63	11393.9	160.3	321730.9	-1180.2	35951.5	67.5
	64	11196.3	-140.4	323028.2	1147.7	35273.7	-71.6
	65	11432.9	-72.5	322747.1	643.0	35378.2	-47.2
	66	11223.8	198.2	321648.2	-1518.7	36079.2	102.1
	67	11460.4	266.0	321367.1	-2023.4	36183.7	126.5
	68	-3780.1	448.5	319288.7	-3491.2	-9474.8	237.9
	69	-3760.1	480.2	319179.5	-3744.2	-9405.2	255.6
	70	3012.2	447.0	319895.1	-3491.8	11857.9	237.9
	71	3032.1	478.7	319785.9	-3744.8	11927.6	255.6
	72	-2991.4	674.6	318351.7	-5173.6	-9126.4	319.3
	73	-2971.4	706.3	318242.6	-5426.6	-9056.7	337.0
	74	3800.9	673.1	318958.1	-5174.2	12206.4	319.3
	75	3820.9	704.8	318849.0	-5427.2	12276.0	337.0

22	44	-10851.6	-291.7	275054.8	2385.6	-34983.1	-130.5
	45	-10821.3	-118.6	271836.1	1580.3	-34873.8	-106.1
	46	-10630.7	464.8	259332.5	-1286.6	-34201.9	43.2
	47	-10600.4	638.0	256113.8	-2091.9	-34092.5	67.6
	48	-10787.1	-30.0	271966.3	1130.7	-34754.2	-71.5
	49	-10756.8	143.1	268747.6	325.4	-34644.8	-47.1
	50	-10566.2	726.5	256244.0	-2541.5	-33972.9	102.2
	51	-10535.9	899.6	253025.3	-3346.8	-33863.6	126.6

52	-3984.3	-1286.0	299672.6	7168.4	-12344.2	-341.0
53	-3964.9	-1207.5	298746.1	6791.9	-12275.5	-323.3
54	2133.8	-1287.1	302759.0	7166.9	7882.4	-341.0
55	2153.2	-1208.6	301832.5	6790.4	7951.1	-323.3
56	-3883.4	-708.9	288943.5	4484.0	-11979.8	-259.6
57	-3864.0	-630.4	288017.0	4107.6	-11911.1	-241.9
58	2234.7	-710.0	292029.9	4482.5	8246.9	-259.6
59	2254.1	-631.5	291103.4	4106.0	8315.6	-241.9
60	9542.0	-295.3	285342.9	2380.6	32439.1	-130.6
61	9572.3	-122.2	282124.2	1575.3	32548.4	-106.2
62	9762.9	461.2	269620.6	-1291.6	33220.3	43.1
63	9793.2	634.3	266401.8	-2096.9	33329.7	67.5
64	9606.5	-33.7	282254.4	1125.6	32668.0	-71.6
65	9636.8	139.4	279035.7	320.3	32777.4	-47.2
66	9827.5	722.8	266532.1	-2546.6	33449.3	102.1
67	9857.7	895.9	263313.3	-3351.9	33558.6	126.5
68	-3247.9	1235.8	247264.8	-5072.3	-9740.1	237.9
69	-3228.6	1314.3	246338.3	-5448.8	-9671.4	255.6
70	2870.1	1234.7	250351.2	-5073.8	10486.6	237.9
71	2889.5	1313.2	249424.7	-5450.3	10555.3	255.6
72	-3147.0	1812.8	236535.7	-7756.6	-9375.6	319.3
73	-3127.7	1891.3	235609.2	-8133.1	-9307.0	337.0
74	2971.1	1811.7	239622.1	-7758.2	10851.0	319.3
75	2990.4	1890.2	238695.6	-8134.6	10919.7	337.0

24	44	-4654.8	21.8	177260.3	209.8	-14081.8	-37.7
	45	-4676.9	-4.7	177454.1	295.3	-14140.5	-30.7
	46	-4807.6	490.8	179521.2	-1251.5	-14491.6	12.5
	47	-4829.7	464.3	179715.0	-1166.0	-14550.4	19.5
	48	-4703.8	-76.3	176709.0	510.7	-14213.1	-20.7
	49	-4725.9	-102.9	176902.8	596.2	-14271.9	-13.6
	50	-4856.6	392.7	178969.9	-950.6	-14623.0	29.5
	51	-4878.6	366.1	179163.7	-865.1	-14681.8	36.6
	52	-66.7	-530.6	195538.0	1922.1	-1734.4	-98.6
	53	-81.4	-560.0	195372.6	2012.3	-1773.9	-93.5
	54	3705.8	-532.2	213824.7	1923.6	8419.7	-98.6
	55	3691.1	-561.6	213659.3	2013.9	8380.3	-93.5
	56	-140.3	-619.1	196184.0	2207.0	-1930.4	-75.1
	57	-155.0	-648.5	196018.6	2297.3	-1969.8	-69.9
	58	3632.3	-620.6	214470.7	2208.6	8223.8	-75.1
	59	3617.6	-650.1	214305.3	2298.9	8184.4	-69.9
	60	7920.3	16.6	238215.9	215.0	19765.4	-37.8
	61	7898.2	-9.9	238409.7	300.5	19706.7	-30.7
	62	7767.5	485.6	240476.8	-1246.3	19355.5	12.5
	63	7745.5	459.1	240670.6	-1160.8	19296.8	19.5
	64	7871.3	-81.6	237664.6	515.9	19634.1	-20.7
	65	7849.3	-108.1	237858.4	601.4	19575.3	-13.6
	66	7718.6	387.5	239925.5	-945.4	19224.2	29.5
	67	7696.5	360.9	240119.3	-859.9	19165.4	36.6
	68	-575.9	1032.8	203074.3	-2948.9	-3100.8	68.8
	69	-590.6	1003.4	202908.9	-2858.7	-3140.2	73.9
	70	3196.6	1031.2	221361.0	-2947.4	7053.4	68.8

	71	3181.9	1001.8	221195.6	-2857.1	7014.0	73.9
	72	-649.5	944.3	203720.3	-2664.0	-3296.7	92.3
	73	-664.2	914.9	203554.9	-2573.7	-3336.1	97.5
	74	3123.1	942.8	222007.0	-2662.4	6857.5	92.3
	75	3108.4	913.3	221841.6	-2572.1	6818.1	97.5
25	44	-13882.9	-135.9	194257.5	1106.2	-39530.3	-130.5
	45	-13834.8	-176.0	197831.5	1373.9	-39555.1	-106.1
	46	-14496.6	364.1	160399.0	-2154.4	-40491.1	43.2
	47	-14448.5	324.0	163973.1	-1886.7	-40516.0	67.6
	48	-13867.1	-230.0	197826.9	1684.6	-39636.2	-71.5
	49	-13819.0	-270.1	201400.9	1952.3	-39661.0	-47.1
	50	-14480.8	270.0	163968.5	-1576.0	-40597.0	102.2
	51	-14432.6	229.9	167542.5	-1308.3	-40621.9	126.6
	52	-4314.3	-704.5	269711.9	4794.0	-11932.9	-341.0
	53	-4309.6	-732.7	270782.7	4967.5	-11964.7	-323.3
	54	3317.1	-703.7	303031.9	4788.5	10768.0	-341.0
	55	3321.8	-731.9	304102.8	4962.0	10736.2	-323.3
	56	-4153.9	-838.2	281625.3	5686.1	-12015.8	-259.6
	57	-4149.2	-866.4	282696.2	5859.7	-12047.5	-241.9
	58	3477.5	-837.4	314945.3	5680.6	10685.1	-259.6
	59	3482.2	-865.7	316016.2	5854.1	10653.4	-241.9
	60	11555.1	-133.3	305324.3	1087.8	36139.4	-130.6
	61	11603.2	-173.5	308898.3	1355.5	36114.5	-106.2
	62	10941.5	366.7	271465.8	-2172.8	35178.5	43.1
	63	10989.6	326.6	275039.9	-1905.1	35153.6	67.5
	64	11570.9	-227.5	308893.7	1666.2	36033.5	-71.6
	65	11619.0	-267.6	312467.7	1933.8	36008.6	-47.2
	66	10957.3	272.5	275035.3	-1594.4	35072.6	102.1
	67	11005.4	232.4	278609.3	-1326.7	35047.8	126.5
	68	-6359.8	962.2	156850.5	-6074.6	-15135.9	237.9
	69	-6355.0	934.0	157921.4	-5901.1	-15167.6	255.6
	70	1271.6	963.0	190170.6	-6080.2	7565.0	237.9
	71	1276.4	934.7	191241.4	-5906.6	7533.3	255.6
	72	-6199.4	828.5	168764.0	-5182.5	-15218.7	319.3
	73	-6194.6	800.3	169834.8	-5009.0	-15250.5	337.0
	74	1432.0	829.3	202084.0	-5188.0	7482.2	319.3
	75	1436.8	801.0	203154.9	-5014.5	7450.4	337.0
26	44	-25027.1	-55721.2	98698.4	31182.4	-68821.0	-3567.8
	45	-25163.3	-64151.2	114843.7	36267.1	-69148.1	-3572.2
	46	-25579.4	30609.0	-66383.7	-20586.8	-70159.3	-3584.5
	47	-25715.6	22179.0	-50238.4	-15502.1	-70486.3	-3588.8
	48	-25197.2	-68182.5	122334.5	38887.1	-69225.2	-3572.9
	49	-25333.4	-76612.5	138479.8	43971.8	-69552.2	-3577.3
	50	-25749.5	18147.7	-42747.6	-12882.1	-70563.5	-3589.6
	51	-25885.7	9717.7	-26602.3	-7797.4	-70890.5	-3593.9
	52	-6575.4	-149982.3	280392.3	87650.6	-18385.7	-1027.3
	53	-6626.4	-153720.7	287483.2	89962.0	-18506.9	-1028.8
	54	8602.8	-149138.9	280102.3	87055.9	23300.6	1130.8
	55	8551.8	-152877.3	287193.2	89367.3	23179.3	1129.3
	56	-7029.5	-178082.2	334210.0	104599.5	-19475.8	-1041.8

57	-7080.5	-181820.6	341300.8	106910.9	-19597.1	-1043.4
58	8148.8	-177238.8	333920.0	104004.8	22210.4	1116.3
59	8097.8	-180977.2	341010.8	106316.2	22089.2	1114.8
60	25567.0	-52909.8	97731.8	29200.1	70133.1	3626.0
61	25430.8	-61339.8	113877.1	34284.8	69806.1	3621.6
62	25014.7	33420.4	-67350.3	-22569.1	68794.9	3609.3
63	24878.5	24990.4	-51205.0	-17484.4	68467.8	3605.0
64	25397.0	-65371.2	121367.9	36904.8	69729.0	3620.8
65	25260.8	-73801.1	137513.2	41989.5	69401.9	3616.5
66	24844.7	20959.0	-43714.2	-14864.4	68390.7	3604.2
67	24708.5	12529.1	-27568.9	-9779.7	68063.7	3599.8
68	-8416.4	137785.0	-269881.3	-84913.5	-22846.6	-1082.8
69	-8467.4	134046.6	-262790.5	-82602.1	-22967.8	-1084.3
70	6761.8	138628.4	-270171.3	-85508.2	18839.7	1075.4
71	6710.8	134890.0	-263080.5	-83196.8	18718.5	1073.8
72	-8870.5	109685.1	-216063.7	-67964.6	-23936.7	-1097.3
73	-8921.5	105946.7	-208972.9	-65653.2	-24057.9	-1098.8
74	6307.8	110528.5	-216353.7	-68559.3	17749.6	1060.8
75	6256.8	106790.1	-209262.8	-66247.9	17628.3	1059.3

27	44	-24275.4	-194.1	117607.8	517.9	-103671.9	-71.4
	45	-24406.4	-219.7	123322.2	616.0	-104110.0	-58.1
	46	-24806.5	33.7	66166.3	-365.3	-106093.3	23.6
	47	-24937.6	8.2	71880.6	-267.2	-106531.4	37.0
	48	-24451.3	-223.3	121147.9	618.2	-104469.4	-39.1
	49	-24582.3	-248.8	126862.3	716.3	-104907.5	-25.8
	50	-24982.5	4.6	69706.4	-264.9	-106890.8	55.9
	51	-25113.5	-20.9	75420.8	-166.9	-107328.9	69.3
	52	-6423.1	-435.4	192975.7	1458.6	-26681.7	-186.6
	53	-6475.9	-444.2	194037.7	1488.7	-26920.9	-176.9
	54	8269.3	-431.2	210787.5	1449.6	36689.7	-186.6
	55	8216.5	-439.9	211849.6	1479.7	36450.5	-176.9
	56	-6860.0	-520.5	212023.6	1785.4	-28142.0	-142.1
	57	-6912.8	-529.3	213085.6	1815.5	-28381.2	-132.4
	58	7832.5	-516.3	229835.4	1776.4	35229.4	-142.1
	59	7779.7	-525.0	230897.5	1806.5	34990.2	-132.4
	60	24699.5	-179.9	176980.6	488.1	107566.1	-71.5
	61	24568.4	-205.4	182695.0	586.1	107128.0	-58.1
	62	24168.3	48.0	125539.0	-395.1	105144.7	23.6
	63	24037.3	22.4	131253.4	-297.1	104706.6	36.9
	64	24523.6	-209.1	180520.7	588.4	106768.5	-39.2
	65	24392.5	-234.6	186235.1	686.4	106330.5	-25.8
	66	23992.4	18.8	129079.1	-294.8	104347.2	55.9
	67	23861.3	-6.7	134793.5	-196.8	103909.1	69.2
	68	-8193.7	324.1	21503.9	-1485.4	-34753.0	130.2
	69	-8246.5	315.4	22565.9	-1455.3	-34992.2	139.9
	70	6498.7	328.4	39315.7	-1494.3	28618.4	130.2
	71	6445.9	319.7	40377.8	-1464.2	28379.2	139.9
	72	-8630.6	239.0	40551.8	-1158.5	-36213.3	174.8
	73	-8683.4	230.3	41613.8	-1128.5	-36452.5	184.4
	74	6061.9	243.3	58363.6	-1167.5	27158.1	174.7
	75	6009.1	234.6	59425.7	-1137.4	26918.9	184.4

28	44	-21879.7	-51380.1	94407.0	33087.9	-60781.4	-3513.1
	45	-22022.3	-59399.2	109869.3	37960.0	-61121.0	-3517.5
	46	-22540.8	20675.0	-44861.0	-9786.8	-62408.8	-3530.8
	47	-22683.5	12655.9	-29398.7	-4914.7	-62748.4	-3535.3
	48	-22065.4	-63229.5	112198.8	35363.9	-61227.1	-3519.0
	49	-22208.1	-71248.6	127661.1	40236.0	-61566.8	-3523.4
	50	-22726.6	8825.5	-27069.2	-7510.8	-62854.5	-3536.8
	51	-22869.2	806.4	-11606.9	-2638.7	-63194.2	-3541.2
	52	-4504.6	-129039.1	243239.7	75784.5	-13088.0	-992.7
	53	-4560.3	-132593.9	248577.3	76467.3	-13221.8	-994.4
	54	9640.3	-128013.2	241667.5	73696.3	25958.6	1147.2
	55	9584.6	-131568.0	247005.0	74379.1	25824.9	1145.5
	56	-4980.0	-155769.5	294780.7	92025.0	-14220.1	-1007.5
	57	-5035.8	-159324.3	300118.2	92707.8	-14353.9	-1009.3
	58	9164.9	-154743.6	293208.4	89936.7	24826.5	1132.4
	59	9109.1	-158298.4	298546.0	90619.5	24692.8	1130.6
	60	25270.0	-47960.4	89166.1	26127.1	69374.2	3619.9
	61	25127.4	-55979.5	104628.4	30999.2	69034.6	3615.5
	62	24608.9	24094.6	-50101.8	-16747.6	67746.8	3602.2
	63	24466.2	16075.5	-34639.5	-11875.5	67407.2	3597.7
	64	25084.2	-59809.9	106958.0	28403.1	68928.4	3614.0
	65	24941.6	-67829.0	122420.3	33275.2	68588.8	3609.6
	66	24423.1	12245.1	-32310.0	-14471.6	67301.0	3596.2
	67	24280.4	4226.0	-16847.7	-9599.4	66961.4	3591.8
	68	-6708.4	111144.4	-220986.7	-67131.1	-18512.8	-1051.9
	69	-6764.1	107589.5	-215649.2	-66448.3	-18646.5	-1053.7
	70	7436.5	112170.2	-222558.9	-69219.4	20533.9	1088.0
	71	7380.8	108615.4	-217221.4	-68536.5	20400.2	1086.2
	72	-7183.8	84414.0	-169445.7	-50890.7	-19644.9	-1066.7
	73	-7239.6	80859.1	-164108.2	-50207.9	-19778.6	-1068.5
	74	6961.1	85439.9	-171018.0	-52978.9	19401.8	1073.2
	75	6905.3	81885.0	-165680.4	-52296.1	19268.1	1071.4
29	44	-11348.7	-1936.9	333989.9	3870.2	-35627.3	-130.5
	45	-11382.9	-1984.3	335646.2	4098.8	-35634.1	-106.1
	46	-10837.3	-1468.4	318831.8	1388.6	-34433.8	43.2
	47	-10871.6	-1515.8	320488.1	1617.2	-34440.5	67.6
	48	-11456.1	-1967.8	334776.0	4042.9	-35934.5	-71.5
	49	-11490.4	-2015.2	336432.3	4271.5	-35941.3	-47.1
	50	-10944.8	-1499.2	319617.9	1561.4	-34741.0	102.2
	51	-10979.0	-1546.6	321274.2	1789.9	-34747.8	126.6
	52	-3464.7	-2438.5	340131.3	6557.8	-11328.0	-341.0
	53	-3497.0	-2447.7	340367.1	6609.6	-11420.1	-323.3
	54	3802.3	-2438.0	331657.6	6556.7	10779.0	-341.0
	55	3770.0	-2447.2	331893.5	6608.5	10686.8	-323.3
	56	-3578.9	-2596.5	345652.3	7319.8	-11350.5	-259.6
	57	-3611.2	-2605.8	345888.1	7371.6	-11442.6	-241.9
	58	3688.1	-2596.0	337178.6	7318.7	10756.5	-259.6
	59	3655.8	-2605.3	337414.4	7370.5	10664.3	-241.9
	60	12874.7	-1935.3	305744.4	3866.5	38062.5	-130.6
	61	12840.4	-1982.7	307400.7	4095.1	38055.8	-106.2

62	13386.0	-1466.7	290586.3	1384.9	39256.0	43.1
63	13351.8	-1514.1	292242.5	1613.5	39249.3	67.5
64	12767.2	-1966.1	306530.5	4039.2	37755.3	-71.6
65	12733.0	-2013.5	308186.8	4267.8	37748.5	-47.2
66	13278.6	-1497.6	291372.3	1557.6	38948.8	102.1
67	13244.3	-1545.0	293028.6	1786.2	38942.1	126.5
68	-1760.2	-876.6	289604.1	-1714.1	-7349.5	237.9
69	-1792.4	-885.9	289840.0	-1662.3	-7441.7	255.6
70	5506.8	-876.1	281130.5	-1715.2	14757.4	237.9
71	5474.6	-885.4	281366.3	-1663.4	14665.2	255.6
72	-1874.4	-1034.7	295125.1	-952.1	-7372.1	319.3
73	-1906.6	-1043.9	295360.9	-900.3	-7464.2	337.0
74	5392.6	-1034.2	286651.4	-953.2	14734.9	319.3
75	5360.4	-1043.4	286887.3	-901.4	14642.7	337.0

30	44	-10969.0	-194.2	336181.8	1234.1	-34570.7	-130.5
	45	-11005.1	-211.4	336118.5	1302.0	-34687.4	-106.1
	46	-11206.5	111.7	336805.9	-920.7	-35370.0	43.2
	47	-11242.6	94.5	336742.6	-852.8	-35486.7	67.6
	48	-11046.1	-194.8	336111.6	1227.3	-34828.5	-71.5
	49	-11082.1	-212.0	336048.3	1295.2	-34945.2	-47.1
	50	-11283.6	111.1	336735.7	-927.5	-35627.7	102.2
	51	-11319.7	93.9	336672.4	-859.6	-35744.4	126.6
	52	-2878.4	-519.2	335816.6	3565.8	-8910.0	-341.0
	53	-2901.5	-519.4	335795.5	3563.8	-8987.3	-323.3
	54	3805.9	-509.0	336085.3	3479.7	12246.2	-341.0
	55	3782.8	-509.2	336064.2	3477.6	12168.9	-323.3
	56	-2998.7	-576.8	335605.4	3792.3	-9299.0	-259.6
	57	-3021.8	-576.9	335584.3	3790.3	-9376.3	-241.9
	58	3685.6	-566.6	335874.1	3706.2	11857.2	-259.6
	59	3662.5	-566.7	335853.0	3704.1	11779.9	-241.9
	60	11312.0	-160.2	337077.5	946.9	35950.0	-130.6
	61	11275.9	-177.4	337014.2	1014.8	35833.3	-106.2
	62	11074.5	145.7	337701.6	-1207.9	35150.8	43.1
	63	11038.4	128.5	337638.3	-1140.0	35034.1	67.5
	64	11234.9	-160.8	337007.3	940.1	35692.3	-71.6
	65	11198.9	-178.0	336943.9	1008.0	35575.6	-47.2
	66	10997.4	145.1	337631.4	-1214.7	34893.0	102.1
	67	10961.3	127.9	337568.0	-1146.8	34776.3	126.5
	68	-3670.2	500.4	337896.9	-3616.8	-11574.3	237.9
	69	-3693.3	500.3	337875.8	-3618.8	-11651.6	255.6
	70	3014.1	510.6	338165.6	-3703.0	9581.9	237.9
	71	2991.0	510.5	338144.5	-3705.0	9504.6	255.6
	72	-3790.4	442.9	337685.7	-3390.3	-11963.3	319.3
	73	-3813.6	442.7	337664.6	-3392.4	-12040.6	337.0
	74	2893.9	453.1	337954.4	-3476.5	9192.9	319.3
	75	2870.7	452.9	337933.3	-3478.5	9115.6	337.0

31	44	-10986.5	-161.8	322993.6	1358.7	-34598.7	-130.5
	45	-11022.4	-153.4	322993.4	1240.5	-34715.0	-106.1
	46	-11227.1	110.0	323018.5	-798.1	-35402.9	43.2
	47	-11262.9	118.4	323018.4	-916.4	-35519.2	67.6

48	-11064.5	-110.5	322938.7	902.4	-34857.9	-71.5
49	-11100.3	-102.1	322938.5	784.1	-34974.2	-47.1
50	-11305.1	161.4	322963.6	-1254.5	-35662.1	102.2
51	-11340.9	169.8	322963.5	-1372.7	-35778.4	126.6
52	-2843.2	-471.5	322946.8	3851.0	-8852.3	-341.0
53	-2866.6	-456.1	322930.3	3714.1	-8930.1	-323.3
54	3883.8	-472.0	322947.9	3848.9	12373.2	-341.0
55	3860.4	-456.6	322931.4	3712.0	12295.5	-323.3
56	-2962.6	-443.4	322946.4	3456.7	-9240.0	-259.6
57	-2986.0	-428.0	322929.9	3319.9	-9317.8	-241.9
58	3764.4	-443.9	322947.6	3454.7	11985.5	-259.6
59	3741.0	-428.5	322931.1	3317.8	11907.8	-241.9
60	11436.9	-163.5	322997.5	1351.9	36153.2	-130.6
61	11401.0	-155.1	322997.3	1233.7	36036.9	-106.2
62	11196.3	108.4	323022.4	-804.9	35349.1	43.1
63	11160.5	116.8	323022.3	-923.2	35232.8	67.5
64	11358.9	-112.2	322942.6	895.6	35894.1	-71.6
65	11323.1	-103.8	322942.4	777.3	35777.7	-47.2
66	11118.4	159.7	322967.5	-1261.3	35089.9	102.1
67	11082.5	168.1	322967.4	-1379.5	34973.6	126.5
68	-3645.0	434.8	323029.8	-3338.6	-11532.9	237.9
69	-3668.4	450.2	323013.4	-3475.5	-11610.7	255.6
70	3082.0	434.3	323031.0	-3340.7	9692.7	237.9
71	3058.6	449.7	323014.5	-3477.6	9614.9	255.6
72	-3764.4	462.8	323029.5	-3732.9	-11920.6	319.3
73	-3787.8	478.2	323013.0	-3869.8	-11998.4	337.0
74	2962.6	462.3	323030.7	-3734.9	9305.0	319.3
75	2939.2	477.7	323014.2	-3871.8	9227.2	337.0

32	44	-10962.8	-171.9	333435.7	1612.4	-34560.0	-130.5
	45	-10998.3	-131.0	333398.2	1290.1	-34675.8	-106.1
	46	-11203.0	149.4	333209.6	-789.2	-35363.5	43.2
	47	-11238.5	190.2	333172.2	-1111.5	-35479.3	67.6
	48	-11040.6	-87.8	333383.7	954.1	-34818.8	-71.5
	49	-11076.1	-46.9	333346.2	631.9	-34934.6	-47.1
	50	-11280.8	233.4	333157.6	-1447.4	-35622.4	102.2
	51	-11316.3	274.3	333120.2	-1769.7	-35738.2	126.6
	52	-2832.2	-566.0	333670.4	4558.0	-8834.4	-341.0
	53	-2855.6	-540.8	333654.8	4360.5	-8912.1	-323.3
	54	3884.5	-566.9	333623.7	4556.4	12374.4	-341.0
	55	3861.2	-541.7	333608.1	4358.9	12296.7	-323.3
	56	-2950.6	-429.8	333545.5	3483.8	-9220.3	-259.6
	57	-2973.9	-404.5	333529.9	3286.3	-9298.0	-241.9
	58	3766.2	-430.7	333498.8	3482.2	11988.5	-259.6
	59	3742.8	-405.4	333483.2	3284.7	11910.8	-241.9
	60	11426.3	-174.9	333280.0	1607.2	36136.1	-130.6
	61	11390.8	-134.0	333242.5	1284.9	36020.3	-106.2
	62	11186.2	146.4	333053.9	-794.4	35332.5	43.1
	63	11150.7	187.3	333016.5	-1116.7	35216.7	67.5
	64	11348.6	-90.8	333228.0	948.9	35877.2	-71.6
	65	11313.1	-49.9	333190.5	626.7	35761.4	-47.2
	66	11108.4	230.5	333001.9	-1452.6	35073.6	102.1

	67	11072.9	271.4	332964.5	-1774.9	34957.9	126.5
	68	-3632.8	504.9	332916.9	-3447.3	-11512.9	237.9
	69	-3656.1	530.1	332901.3	-3644.8	-11590.6	255.6
	70	3084.0	504.0	332870.2	-3448.8	9695.9	237.9
	71	3060.6	529.2	332854.6	-3646.3	9618.2	255.6
	72	-3751.1	641.1	332792.0	-4521.5	-11898.8	319.3
	73	-3774.4	666.4	332776.4	-4719.0	-11976.5	337.0
	74	2965.6	640.2	332745.3	-4523.1	9310.0	319.3
	75	2942.3	665.5	332729.7	-4720.5	9232.3	337.0
33	44	-11199.5	-268.7	318851.8	2037.7	-34948.1	-130.5
	45	-11424.4	-201.1	319145.3	1533.6	-35051.4	-106.1
	46	-11227.5	68.5	320290.6	-626.0	-35725.7	43.2
	47	-11452.4	136.0	320584.1	-1130.2	-35829.0	67.6
	48	-11271.0	-163.5	319232.3	1195.5	-35196.7	-71.5
	49	-11495.9	-96.0	319525.8	691.3	-35300.0	-47.1
	50	-11299.0	173.7	320671.1	-1468.3	-35974.3	102.2
	51	-11523.9	241.2	320964.6	-1972.4	-36077.6	126.6
	52	-3004.6	-705.7	317675.6	5437.9	-9118.3	-341.0
	53	-3026.1	-674.1	317789.8	5185.3	-9192.9	-323.3
	54	3788.2	-707.1	318285.6	5437.2	12215.2	-341.0
	55	3766.7	-675.5	318399.7	5184.5	12140.6	-323.3
	56	-3754.3	-480.5	318653.8	3757.5	-9462.6	-259.6
	57	-3775.7	-448.9	318768.0	3504.8	-9537.2	-241.9
	58	3038.5	-481.9	319263.8	3756.8	11871.0	-259.6
	59	3017.1	-450.3	319378.0	3504.1	11796.4	-241.9
	60	11443.1	-273.3	320885.1	2035.2	36163.7	-130.6
	61	11218.2	-205.8	321178.6	1531.1	36060.4	-106.2
	62	11415.1	63.9	322323.9	-628.6	35386.1	43.1
	63	11190.2	131.4	322617.4	-1132.7	35282.8	67.5
	64	11371.6	-168.1	321265.5	1192.9	35915.1	-71.6
	65	11146.7	-100.6	321559.0	688.8	35811.8	-47.2
	66	11343.6	169.0	322704.3	-1470.8	35137.5	102.1
	67	11118.7	236.6	322997.8	-1975.0	35034.3	126.5
	68	-3097.8	418.2	322471.7	-3441.3	-11710.2	237.9
	69	-3119.3	449.8	322585.8	-3694.0	-11784.8	255.6
	70	3694.9	416.8	323081.6	-3442.1	9623.3	237.9
	71	3673.5	448.4	323195.8	-3694.7	9548.7	255.6
	72	-3847.5	643.4	323449.9	-5121.7	-12054.5	319.3
	73	-3868.9	675.0	323564.1	-5374.4	-12129.1	337.0
	74	2945.3	642.0	324059.9	-5122.5	9279.1	319.3
	75	2923.8	673.6	324174.0	-5375.2	9204.5	337.0
34	44	-10530.5	-903.3	241725.3	3384.0	-33847.0	-130.5
	45	-10562.2	-730.5	245046.1	2579.2	-33956.3	-106.1
	46	-10742.4	-148.0	257921.4	-286.2	-34604.1	43.2
	47	-10774.0	24.8	261242.3	-1091.0	-34713.4	67.6
	48	-10599.2	-642.4	244917.9	2130.3	-34091.1	-71.5
	49	-10630.9	-469.6	248238.8	1325.5	-34200.4	-47.1
	50	-10811.1	112.9	261114.1	-1539.9	-34848.2	102.2
	51	-10842.7	285.8	264434.9	-2344.7	-34957.4	126.6
	52	-3131.7	-1896.7	223693.3	8165.6	-9322.2	-341.0

53	-3152.3	-1818.5	224651.1	7789.5	-9395.5	-323.3
54	2987.3	-1898.3	226796.4	8165.3	10905.9	-341.0
55	2966.7	-1820.0	227754.2	7789.2	10832.7	-323.3
56	-3237.1	-1320.6	234762.7	5483.0	-9686.4	-259.6
57	-3257.7	-1242.3	235720.5	5106.9	-9759.6	-241.9
58	2881.9	-1322.1	237865.8	5482.6	10541.8	-259.6
59	2861.3	-1243.9	238823.6	5106.5	10468.5	-241.9
60	9866.1	-908.6	252069.2	3382.8	33580.2	-130.6
61	9834.5	-735.7	255390.0	2578.0	33470.9	-106.2
62	9654.3	-153.2	268265.3	-287.4	32823.1	43.1
63	9622.6	19.6	271586.1	-1092.2	32713.9	67.5
64	9797.4	-647.6	255261.8	2129.1	33336.1	-71.6
65	9765.8	-474.8	258582.6	1324.3	33226.9	-47.2
66	9585.6	107.7	271457.9	-1541.1	32579.1	102.1
67	9553.9	280.5	274778.8	-2345.9	32469.8	126.5
68	-3837.9	621.1	277680.4	-4068.4	-11845.8	237.9
69	-3858.5	699.3	278638.2	-4444.5	-11919.0	255.6
70	2281.1	619.5	280783.6	-4068.7	8382.4	237.9
71	2260.5	697.8	281741.4	-4444.8	8309.2	255.6
72	-3943.3	1197.2	288749.8	-6751.0	-12209.9	319.3
73	-3963.9	1275.5	289707.6	-7127.1	-12283.2	337.0
74	2175.7	1195.7	291853.0	-6751.4	8018.2	319.3
75	2155.1	1273.9	292810.8	-7127.5	7945.0	337.0

36	44	-3985.4	-1001.0	120796.2	1899.3	-12711.7	-37.7
	45	-4045.8	-1022.2	120207.4	1976.0	-12884.7	-30.7
	46	-4400.5	-643.4	118221.2	622.5	-13918.0	12.5
	47	-4460.9	-664.7	117632.4	699.3	-14091.0	19.5
	48	-4115.6	-1075.4	120098.8	2160.5	-13089.1	-20.7
	49	-4176.0	-1096.6	119510.0	2237.3	-13262.1	-13.6
	50	-4530.7	-717.8	117523.8	883.8	-14295.5	29.5
	51	-4591.1	-739.1	116935.0	960.6	-14468.5	36.6
	52	336.1	-1422.1	136931.2	3394.1	-356.9	-98.6
	53	297.1	-1444.4	136722.0	3472.5	-470.1	-93.5
	54	3603.8	-1424.4	147806.7	3397.1	8966.9	-98.6
	55	3564.8	-1446.8	147597.4	3475.5	8853.7	-93.5
	56	134.7	-1493.0	134968.5	3650.1	-933.5	-75.1
	57	95.7	-1515.3	134759.3	3728.5	-1046.7	-69.9
	58	3402.4	-1495.3	145843.9	3653.0	8390.3	-75.1
	59	3363.4	-1517.7	145634.7	3731.4	8277.1	-69.9
	60	6907.0	-1008.8	157047.8	1909.1	18367.5	-37.8
	61	6846.5	-1030.1	156458.9	1985.9	18194.5	-30.7
	62	6491.9	-651.3	154472.8	632.4	17161.2	12.5
	63	6431.4	-672.6	153884.0	709.1	16988.2	19.5
	64	6776.7	-1083.3	156350.3	2170.4	17990.1	-20.7
	65	6716.3	-1104.5	155761.5	2247.2	17817.1	-13.6
	66	6361.6	-725.7	153775.4	893.7	16783.7	29.5
	67	6301.2	-747.0	153186.6	970.4	16610.7	36.6
	68	-1047.5	-230.3	128348.0	-861.7	-4378.0	68.8
	69	-1086.6	-252.6	128138.8	-783.3	-4491.3	73.9
	70	2220.2	-232.6	139223.5	-858.8	4945.7	68.8
	71	2181.1	-255.0	139014.3	-780.4	4832.5	73.9

	72	-1248.9	-301.2	126385.3	-605.8	-4954.6	92.3
	73	-1288.0	-323.5	126176.1	-527.4	-5067.9	97.5
	74	2018.8	-303.5	137260.8	-602.8	4369.1	92.3
	75	1979.7	-325.9	137051.6	-524.4	4255.9	97.5
37	44	-4543.5	-111.9	192542.7	403.3	-13625.2	-37.7
	45	-4592.9	-122.0	193780.2	470.1	-13780.0	-30.7
	46	-4896.2	13.4	192666.9	-407.5	-14728.8	12.5
	47	-4945.7	3.2	193904.3	-340.7	-14883.5	19.5
	48	-4654.1	-135.2	192863.5	546.7	-13970.4	-20.7
	49	-4703.5	-145.4	194101.0	613.5	-14125.1	-13.6
	50	-5006.8	-9.9	192987.7	-264.1	-15073.9	29.5
	51	-5056.3	-20.1	194225.1	-197.3	-15228.6	36.6
	52	-677.2	-253.8	187289.3	1319.5	-2022.3	-98.6
	53	-710.4	-260.8	187385.5	1362.6	-2125.8	-93.5
	54	2267.6	-253.4	184051.7	1317.8	6768.3	-98.6
	55	2234.4	-260.4	184147.9	1360.8	6664.8	-93.5
	56	-842.1	-287.7	191414.2	1542.1	-2538.0	-75.1
	57	-875.3	-294.7	191510.4	1585.1	-2641.6	-69.9
	58	2102.7	-287.3	188176.6	1540.4	6252.6	-75.1
	59	2069.6	-294.3	188272.8	1583.4	6149.1	-69.9
	60	5272.7	-110.5	181750.8	397.6	15676.9	-37.8
	61	5223.2	-120.7	182988.3	464.4	15522.1	-30.7
	62	4919.9	14.7	181875.0	-413.2	14573.3	12.5
	63	4870.5	4.6	183112.4	-346.4	14418.6	19.5
	64	5162.1	-133.8	182071.6	541.0	15331.7	-20.7
	65	5112.6	-144.0	183309.1	607.8	15177.0	-13.6
	66	4809.3	-8.6	182195.8	-269.8	14228.2	29.5
	67	4759.9	-18.8	183433.2	-203.0	14073.5	36.6
	68	-1853.2	163.7	187703.1	-1383.1	-5700.8	68.8
	69	-1886.3	156.7	187799.4	-1340.1	-5804.4	73.9
	70	1091.7	164.1	184465.5	-1384.8	3089.8	68.8
	71	1058.5	157.1	184561.8	-1341.8	2986.2	73.9
	72	-2018.0	129.8	191828.0	-1160.5	-6216.6	92.3
	73	-2051.2	122.8	191924.3	-1117.5	-6320.1	97.5
	74	926.8	130.2	188590.5	-1162.3	2574.0	92.3
	75	893.6	123.2	188686.7	-1119.3	2470.5	97.5
38	44	-4635.2	-54.6	198495.2	286.4	-13777.2	-37.7
	45	-4686.8	-65.0	198497.9	358.0	-13935.5	-30.7
	46	-4996.1	40.4	198409.4	-395.7	-14894.4	12.5
	47	-5047.8	30.1	198412.1	-324.1	-15052.7	19.5
	48	-4748.5	-68.4	198509.7	378.1	-14126.8	-20.7
	49	-4800.1	-78.7	198512.4	449.7	-14285.1	-13.6
	50	-5109.4	26.7	198423.9	-304.0	-15244.0	29.5
	51	-5161.1	16.3	198426.6	-232.4	-15402.3	36.6
	52	-734.1	-157.8	198453.0	1028.6	-2115.8	-98.6
	53	-768.1	-161.9	198457.3	1056.1	-2220.6	-93.5
	54	2231.0	-157.3	198329.4	1026.7	6709.0	-98.6
	55	2197.0	-161.5	198333.7	1054.2	6604.2	-93.5
	56	-906.2	-192.2	198462.0	1267.3	-2643.6	-75.1
	57	-940.2	-196.3	198466.3	1294.8	-2748.5	-69.9

58	2059.0	-191.7	198338.3	1265.4	6181.2	-75.1
59	2025.0	-195.8	198342.7	1292.9	6076.3	-69.9
60	5248.6	-53.0	198083.1	280.1	15638.8	-37.8
61	5197.0	-63.3	198085.8	351.7	15480.5	-30.7
62	4887.7	42.1	197997.3	-402.0	14521.6	12.5
63	4836.1	31.7	198000.0	-330.4	14363.3	19.5
64	5135.3	-66.8	198097.6	371.8	15289.2	-20.7
65	5083.7	-77.1	198100.3	443.4	15130.9	-13.6
66	4774.4	28.3	198011.8	-310.3	14172.0	29.5
67	4722.7	18.0	198014.5	-238.7	14013.7	36.6
68	-1937.4	159.1	198167.1	-1245.2	-5839.8	68.8
69	-1971.4	155.0	198171.4	-1217.7	-5944.7	73.9
70	1027.8	159.6	198043.5	-1247.1	2985.0	68.8
71	993.8	155.5	198047.8	-1219.6	2880.1	73.9
72	-2109.4	124.8	198176.0	-1006.5	-6367.7	92.3
73	-2143.4	120.6	198180.4	-979.0	-6472.5	97.5
74	855.7	125.3	198052.4	-1008.4	2457.1	92.3
75	821.7	121.1	198056.8	-980.9	2352.3	97.5

39	44	-4624.3	-238.3	203372.1	577.4	-13759.1	-37.7
	45	-4675.4	-250.9	203442.0	650.0	-13916.5	-30.7
	46	-4982.8	-133.5	202735.8	-59.3	-14872.2	12.5
	47	-5033.9	-146.1	202805.7	13.2	-15029.7	19.5
	48	-4736.8	-248.1	203426.5	630.9	-14107.4	-20.7
	49	-4787.9	-260.7	203496.4	703.5	-14264.8	-13.6
	50	-5095.3	-143.3	202790.2	-5.8	-15220.5	29.5
	51	-5146.4	-155.8	202860.1	66.7	-15378.0	36.6
	52	-748.5	-348.6	204057.7	1252.0	-2139.4	-98.6
	53	-782.3	-351.6	204074.0	1268.1	-2243.9	-93.5
	54	2197.7	-348.0	204062.6	1250.0	6654.2	-98.6
	55	2164.0	-351.0	204078.9	1266.1	6549.7	-93.5
	56	-918.8	-390.6	204290.5	1494.0	-2664.3	-75.1
	57	-952.5	-393.5	204306.8	1510.0	-2768.8	-69.9
	58	2027.5	-390.0	204295.4	1491.9	6129.3	-75.1
	59	1993.7	-392.9	204311.7	1508.0	6024.8	-69.9
	60	5196.5	-236.3	203388.4	570.7	15552.9	-37.8
	61	5145.5	-248.9	203458.3	643.2	15395.4	-30.7
	62	4838.0	-131.5	202752.2	-66.1	14439.8	12.5
	63	4786.9	-144.0	202822.0	6.5	14282.3	19.5
	64	5084.0	-246.0	203442.8	624.2	15204.6	-20.7
	65	5032.9	-258.6	203512.7	696.8	15047.2	-13.6
	66	4725.5	-141.2	202806.6	-12.6	14091.5	29.5
	67	4674.4	-153.8	202876.4	60.0	13934.0	36.6
	68	-1943.6	0.8	201936.8	-870.6	-5849.9	68.8
	69	-1977.3	-2.2	201953.1	-854.5	-5954.4	73.9
	70	1002.7	1.4	201941.7	-872.6	2943.7	68.8
	71	968.9	-1.6	201958.0	-856.6	2839.2	73.9
	72	-2113.9	-41.2	202169.7	-628.6	-6374.7	92.3
	73	-2147.6	-44.1	202186.0	-612.6	-6479.2	97.5
	74	832.4	-40.5	202174.6	-630.7	2418.9	92.3
	75	798.6	-43.5	202190.9	-614.6	2314.4	97.5

40	44	-4641.1	-61.0	198480.8	274.4	-13786.7	-37.7
	45	-4692.1	-69.3	198490.5	325.2	-13944.0	-30.7
	46	-5000.1	13.5	198380.2	-270.6	-14900.6	12.5
	47	-5051.1	5.2	198389.9	-219.8	-15057.9	19.5
	48	-4753.7	-65.7	198480.9	312.0	-14135.1	-20.7
	49	-4804.7	-74.0	198490.6	362.7	-14292.5	-13.6
	50	-5112.7	8.9	198380.3	-233.0	-15249.0	29.5
	51	-5163.7	0.6	198390.0	-182.2	-15406.4	36.6
	52	-751.3	-139.8	198558.5	863.8	-2144.1	-98.6
	53	-785.1	-141.2	198558.5	875.0	-2248.6	-93.5
	54	2206.5	-139.6	198534.1	863.5	6668.5	-98.6
	55	2172.7	-141.0	198534.1	874.8	6564.0	-93.5
	56	-921.4	-167.5	198590.8	1033.0	-2668.6	-75.1
	57	-955.2	-168.9	198590.9	1044.3	-2773.1	-69.9
	58	2036.4	-167.3	198566.5	1032.7	6144.0	-75.1
	59	2002.6	-168.7	198566.5	1044.0	6039.5	-69.9
	60	5218.3	-60.5	198399.6	273.4	15588.7	-37.8
	61	5167.3	-68.8	198409.3	324.2	15431.3	-30.7
	62	4859.3	14.1	198298.9	-271.5	14474.7	12.5
	63	4808.3	5.8	198308.6	-220.8	14317.4	19.5
	64	5105.7	-65.2	198399.7	311.0	15240.2	-20.7
	65	5054.7	-73.5	198409.4	361.8	15082.9	-13.6
	66	4746.7	9.4	198299.0	-234.0	14126.3	29.5
	67	4695.7	1.1	198308.7	-183.2	13968.9	36.6
	68	-1948.0	108.8	198223.0	-952.8	-5857.2	68.8
	69	-1981.8	107.4	198223.1	-941.5	-5961.7	73.9
	70	1009.8	109.0	198198.7	-953.1	2955.4	68.8
	71	976.0	107.6	198198.7	-941.8	2850.9	73.9
	72	-2118.1	81.1	198255.4	-783.6	-6381.7	92.3
	73	-2151.9	79.7	198255.4	-772.3	-6486.2	97.5
	74	839.7	81.3	198231.0	-783.8	2430.9	92.3
	75	805.9	79.9	198231.0	-772.6	2326.4	97.5
41	44	-4637.1	-250.1	203515.1	640.2	-13780.1	-37.7
	45	-4688.2	-254.3	203523.8	657.3	-13937.6	-30.7
	46	-4996.1	-165.8	203125.0	90.9	-14894.1	12.5
	47	-5047.3	-170.1	203133.6	107.9	-15051.7	19.5
	48	-4749.7	-250.1	203570.2	638.5	-14128.6	-20.7
	49	-4800.9	-254.4	203578.8	655.5	-14286.2	-13.6
	50	-5108.8	-165.9	203180.0	89.1	-15242.7	29.5
	51	-5160.0	-170.2	203188.7	106.1	-15400.2	36.6
	52	-750.3	-339.9	203979.6	1235.0	-2142.4	-98.6
	53	-784.1	-339.9	203996.1	1234.4	-2247.0	-93.5
	54	2204.7	-337.0	203979.6	1212.9	6665.6	-98.6
	55	2170.9	-337.0	203996.2	1212.4	6561.1	-93.5
	56	-920.8	-354.2	204008.3	1291.7	-2667.6	-75.1
	57	-954.6	-354.3	204024.9	1291.1	-2772.2	-69.9
	58	2034.3	-351.3	204008.4	1269.6	6140.5	-75.1
	59	2000.4	-351.3	204024.9	1269.1	6035.9	-69.9
	60	5213.1	-240.3	203515.4	566.8	15580.2	-37.8
	61	5162.0	-244.6	203524.0	583.8	15422.6	-30.7
	62	4854.0	-156.0	203125.2	17.4	14466.1	12.5

	63	4802.9	-160.3	203133.9	34.4	14308.5	19.5
	64	5100.4	-240.3	203570.5	565.0	15231.6	-20.7
	65	5049.3	-244.6	203579.1	582.0	15074.1	-13.6
	66	4741.4	-156.1	203180.3	15.6	14117.5	29.5
	67	4690.2	-160.4	203189.0	32.6	13960.0	36.6
	68	-1947.3	-59.1	202679.1	-596.2	-5856.0	68.8
	69	-1981.1	-59.2	202695.6	-596.7	-5960.6	73.9
	70	1007.8	-56.2	202679.2	-618.3	2952.1	68.8
	71	974.0	-56.2	202695.7	-618.8	2847.5	73.9
	72	-2117.7	-73.5	202707.9	-539.5	-6381.1	92.3
	73	-2151.6	-73.5	202724.4	-540.0	-6485.7	97.5
	74	837.3	-70.5	202708.0	-561.6	2426.9	92.3
	75	803.5	-70.5	202724.5	-562.1	2322.4	97.5
42	44	-4640.7	-73.0	198461.3	391.5	-13786.0	-37.7
	45	-4691.6	-70.8	198461.0	362.0	-13943.3	-30.7
	46	-4999.3	-2.5	198395.5	-149.1	-14899.3	12.5
	47	-5050.2	-0.3	198395.1	-178.6	-15056.5	19.5
	48	-4753.2	-59.6	198474.8	277.3	-14134.3	-20.7
	49	-4804.1	-57.4	198474.4	247.7	-14291.5	-13.6
	50	-5111.8	10.9	198409.0	-263.4	-15247.5	29.5
	51	-5162.7	13.1	198408.6	-292.9	-15404.8	36.6
	52	-751.7	-153.2	198544.8	1016.1	-2144.7	-98.6
	53	-785.4	-149.2	198548.9	981.8	-2249.1	-93.5
	54	2205.9	-153.4	198546.1	1015.6	6667.6	-98.6
	55	2172.2	-149.3	198550.2	981.3	6563.2	-93.5
	56	-921.5	-145.9	198543.6	917.8	-2668.8	-75.1
	57	-955.3	-141.9	198547.6	883.5	-2773.3	-69.9
	58	2036.1	-146.0	198544.9	917.3	6143.5	-75.1
	59	2002.4	-142.0	198548.9	883.0	6039.0	-69.9
	60	5218.1	-73.4	198465.7	389.9	15588.4	-37.8
	61	5167.1	-71.2	198465.3	360.4	15431.1	-30.7
	62	4859.5	-2.9	198399.9	-150.7	14475.1	12.5
	63	4808.6	-0.7	198399.5	-180.3	14317.9	19.5
	64	5105.6	-60.0	198479.2	275.6	15240.1	-20.7
	65	5054.7	-57.8	198478.8	246.1	15082.9	-13.6
	66	4747.0	10.5	198413.4	-265.0	14126.9	29.5
	67	4696.1	12.7	198413.0	-294.5	13969.6	36.6
	68	-1947.0	81.7	198325.4	-786.0	-5855.5	68.8
	69	-1980.7	85.7	198329.4	-820.3	-5959.9	73.9
	70	1010.7	81.6	198326.7	-786.5	2956.9	68.8
	71	976.9	85.6	198330.8	-820.7	2852.4	73.9
	72	-2116.8	89.0	198324.1	-884.3	-6379.6	92.3
	73	-2150.6	93.1	198328.2	-918.6	-6484.1	97.5
	74	840.8	88.9	198325.5	-884.8	2432.7	92.3
	75	807.1	92.9	198329.5	-919.1	2328.2	97.5
43	44	-4625.4	-268.1	204180.8	773.1	-13760.8	-37.7
	45	-4676.4	-256.0	204192.1	689.7	-13918.1	-30.7
	46	-4983.6	-174.9	204011.2	153.6	-14873.4	12.5
	47	-5034.6	-162.8	204022.5	70.2	-15030.7	19.5
	48	-4737.8	-243.2	204177.5	603.0	-14108.9	-20.7

49	-4788.8	-231.1	204188.8	519.7	-14266.2	-13.6
50	-5096.0	-150.1	204007.9	-16.5	-15221.5	29.5
51	-5147.0	-138.0	204019.2	-99.8	-15378.8	36.6
52	-746.6	-382.5	204348.6	1533.2	-2136.2	-98.6
53	-780.3	-375.0	204347.6	1482.2	-2240.6	-93.5
54	2202.7	-382.7	204335.2	1532.9	6662.3	-98.6
55	2169.0	-375.2	204334.2	1481.8	6557.9	-93.5
56	-916.5	-342.1	204386.3	1255.3	-2660.6	-75.1
57	-950.2	-334.7	204385.3	1204.3	-2765.0	-69.9
58	2032.7	-342.4	204372.9	1255.0	6138.0	-75.1
59	1999.0	-334.9	204371.9	1204.0	6033.5	-69.9
60	5205.5	-268.9	204136.0	772.0	15567.5	-37.8
61	5154.5	-256.8	204147.3	688.6	15410.2	-30.7
62	4847.3	-175.8	203966.4	152.4	14454.9	12.5
63	4796.3	-163.7	203977.7	69.1	14297.6	19.5
64	5093.1	-244.0	204132.6	601.9	15219.4	-20.7
65	5042.1	-231.9	204143.9	518.5	15062.1	-13.6
66	4734.9	-150.9	203963.0	-17.6	14106.8	29.5
67	4683.9	-138.8	203974.3	-101.0	13949.5	36.6
68	-1940.5	-72.0	203783.3	-531.8	-5844.8	68.8
69	-1974.2	-64.5	203782.3	-582.9	-5949.3	73.9
70	1008.7	-72.2	203769.8	-532.2	2953.7	68.8
71	975.0	-64.8	203768.8	-583.2	2849.2	73.9
72	-2110.5	-31.6	203821.0	-809.7	-6369.2	92.3
73	-2144.2	-24.2	203820.0	-860.7	-6473.6	97.5
74	838.8	-31.9	203807.5	-810.1	2429.3	92.3
75	805.1	-24.4	203806.5	-861.1	2324.9	97.5

44	44	-4782.4	-88.4	195246.2	543.2	-14019.4	-37.7
	45	-4852.6	-64.7	194342.8	406.0	-14208.8	-30.7
	46	-5196.0	27.5	190974.7	-173.4	-15222.0	12.5
	47	-5266.2	51.2	190071.3	-310.5	-15411.4	19.5
	48	-4914.6	-51.1	194229.4	315.3	-14400.3	-20.7
	49	-4984.8	-27.3	193326.0	178.1	-14589.7	-13.6
	50	-5328.2	64.8	189957.9	-401.3	-15602.9	29.5
	51	-5398.4	88.6	189054.5	-538.5	-15792.3	36.6
	52	-760.7	-239.0	201658.0	1459.8	-2160.6	-98.6
	53	-800.4	-227.8	201352.9	1391.4	-2274.9	-93.5
	54	2242.3	-239.6	202284.0	1460.0	6726.4	-98.6
	55	2202.6	-228.4	201978.9	1391.6	6612.2	-93.5
	56	-994.7	-159.8	198646.6	1002.5	-2791.9	-75.1
	57	-1034.4	-148.6	198341.6	934.1	-2906.2	-69.9
	58	2008.3	-160.4	199272.6	1002.7	6095.1	-75.1
	59	1968.6	-149.2	198967.5	934.3	5980.9	-69.9
	60	5227.6	-90.4	197332.8	544.0	15604.0	-37.8
	61	5157.4	-66.6	196429.3	406.8	15414.6	-30.7
	62	4814.0	25.5	193061.3	-172.6	14401.5	12.5
	63	4743.8	49.3	192157.8	-309.8	14212.1	19.5
	64	5095.4	-53.0	196315.9	316.1	15223.2	-20.7
	65	5025.2	-29.3	195412.5	178.9	15033.8	-13.6
	66	4681.7	62.9	192044.4	-400.5	14020.6	29.5
	67	4611.5	86.6	191141.0	-537.7	13831.2	36.6

68	-2139.5	147.4	187419.7	-928.8	-6169.1	68.8
69	-2179.1	158.6	187114.6	-997.2	-6283.3	73.9
70	863.5	146.8	188045.7	-928.5	2718.0	68.8
71	823.9	158.0	187740.6	-996.9	2603.7	73.9
72	-2373.4	226.6	184408.3	-1386.1	-6800.4	92.3
73	-2413.1	237.8	184103.3	-1454.5	-6914.7	97.5
74	629.6	226.0	185034.3	-1385.9	2086.6	92.3
75	589.9	237.2	184729.3	-1454.3	1972.4	97.5

45	44	-4599.5	-239.2	133523.2	868.5	-13716.2	-37.7
	45	-4644.5	-110.4	124438.3	526.0	-13863.4	-30.7
	46	-4912.1	346.9	89690.3	-704.0	-14753.6	12.5
	47	-4957.1	475.7	80605.3	-1046.6	-14900.9	19.5
	48	-4697.9	-39.0	119081.6	332.8	-14041.2	-20.7
	49	-4742.8	89.8	109996.7	-9.7	-14188.4	-13.6
	50	-5010.5	547.1	75248.7	-1239.8	-15078.6	29.5
	51	-5055.4	675.9	66163.8	-1582.3	-15225.8	36.6
	52	-1136.9	-1004.1	189920.1	2916.0	-2777.7	-98.6
	53	-1166.4	-944.0	185587.7	2755.2	-2875.2	-93.5
	54	1503.0	-1004.9	189675.0	2916.6	5511.0	-98.6
	55	1473.5	-944.9	185342.5	2755.8	5413.5	-93.5
	56	-1286.7	-574.8	159637.0	1774.2	-3268.4	-75.1
	57	-1316.2	-514.8	155304.5	1613.5	-3365.9	-69.9
	58	1353.3	-575.7	159391.9	1774.8	5020.3	-75.1
	59	1323.7	-515.6	155059.4	1614.1	4922.8	-69.9
	60	4200.3	-241.9	132706.0	870.5	13912.8	-37.8
	61	4155.3	-113.1	123621.1	528.0	13765.6	-30.7
	62	3887.6	344.2	88873.1	-702.1	12875.3	12.5
	63	3842.7	473.0	79788.2	-1044.6	12728.1	19.5
	64	4101.9	-41.7	118264.5	334.8	13587.8	-20.7
	65	4057.0	87.1	109179.5	-7.7	13440.6	-13.6
	66	3789.3	544.4	74431.5	-1237.8	12550.3	29.5
	67	3744.4	673.2	65346.6	-1580.3	12403.1	36.6
	68	-2178.9	949.6	43810.4	-2325.9	-6235.9	68.8
	69	-2208.4	1009.6	39477.9	-2486.6	-6333.4	73.9
	70	461.0	948.8	43565.3	-2325.3	2052.8	68.8
	71	431.5	1008.8	39232.8	-2486.0	1955.3	73.9
	72	-2328.7	1378.8	13527.3	-3467.6	-6726.6	92.3
	73	-2358.2	1438.9	9194.8	-3628.3	-6824.1	97.5
	74	311.2	1378.0	13282.1	-3467.0	1562.1	92.3
	75	281.7	1438.1	8949.7	-3627.7	1464.6	97.5

47	44	-10978.8	-35839.1	-63797.2	125687.7	-38209.9	1306.2
	45	-10141.9	-21836.5	-24348.5	110536.5	-35579.1	1314.1
	46	-10907.4	22379.8	120137.1	58042.8	-37958.4	1361.8
	47	-10070.6	36382.4	159585.8	42891.6	-35327.7	1369.7
	48	-10735.9	-15941.0	-1390.4	102412.3	-37441.8	1323.8
	49	-9899.0	-1938.4	38058.2	87261.1	-34811.1	1331.6
	50	-10664.5	42277.8	182543.8	34767.4	-37190.3	1379.4
	51	-9827.7	56280.5	221992.5	19616.3	-34559.6	1387.2
	52	-4832.6	-113306.3	-301410.0	215042.4	-16194.2	289.4
	53	-4759.7	-107336.9	-282688.0	208059.8	-15963.8	294.6

	54	1270.9	-113454.6	-300417.2	215818.7	5328.2	-524.0
	55	1343.7	-107485.2	-281695.2	208836.0	5558.6	-518.8
	56	-2043.1	-66630.8	-169914.4	164538.4	-7425.1	315.5
	57	-1970.2	-60661.3	-151192.4	157555.8	-7194.7	320.7
	58	4060.4	-66779.1	-168921.6	165314.7	14097.3	-498.0
	59	4133.3	-60809.7	-150199.5	158332.1	14327.7	-492.7
	60	9366.1	-36333.5	-60487.8	128275.3	33531.4	-1405.2
	61	10203.0	-22330.9	-21039.1	113124.1	36162.1	-1397.4
	62	9437.5	21885.3	123446.5	60630.4	33782.8	-1349.6
	63	10274.4	35888.0	162895.2	45479.2	36413.6	-1341.8
	64	9609.0	-16435.5	1919.0	104999.9	34299.4	-1387.7
	65	10445.9	-2432.8	41367.7	89848.7	36930.1	-1379.9
	66	9680.4	41783.4	185853.3	37355.1	34550.9	-1332.1
	67	10517.2	55786.1	225302.0	22203.9	37181.6	-1324.3
	68	-4594.8	80756.6	311704.3	-10440.5	-15355.9	474.7
	69	-4521.9	86726.0	330426.3	-17423.1	-15125.5	480.0
	70	1508.7	80608.3	312697.1	-9664.2	6166.4	-338.7
	71	1581.5	86577.7	331419.1	-16646.8	6396.9	-333.5
	72	-1805.3	127432.1	443199.9	-60944.5	-6586.8	500.8
	73	-1732.4	133401.6	461921.9	-67927.1	-6356.4	506.0
	74	4298.2	127283.8	444192.7	-60168.2	14935.5	-312.7
	75	4371.1	133253.2	462914.8	-67150.8	15165.9	-307.4
48	44	-10619.1	-58169.3	237199.1	-30030.0	-37343.0	-1494.9
	45	-10054.3	-43802.8	194454.1	-42684.8	-35351.0	-1466.3
	46	-10577.1	2093.2	36634.7	-84039.9	-37160.7	-1292.3
	47	-10012.3	16459.6	-6110.3	-96694.7	-35168.7	-1263.7
	48	-10459.9	-37564.1	169437.8	-48701.0	-36770.1	-1433.0
	49	-9895.1	-23197.7	126692.8	-61355.8	-34778.1	-1404.4
	50	-10418.0	22698.3	-31126.6	-102710.9	-36587.8	-1230.4
	51	-9853.2	37064.8	-73871.6	-115365.7	-34595.8	-1201.8
	52	-4237.4	-138373.0	497766.6	40863.2	-14785.5	-794.7
	53	-4189.6	-132191.5	477438.2	35261.9	-14613.6	-776.1
	54	1791.7	-138671.7	498129.2	40565.3	6551.8	18.2
	55	1839.5	-132490.2	477800.8	34964.0	6723.7	36.7
	56	-2354.7	-90484.9	355283.3	-1319.5	-8145.5	-699.4
	57	-2307.0	-84303.3	334954.9	-6920.8	-7973.6	-680.8
	58	3674.4	-90783.6	355645.9	-1617.3	13191.8	113.5
	59	3722.1	-84602.0	335317.5	-7218.6	13363.7	132.1
	60	9477.8	-59165.0	238407.7	-31022.8	33781.5	1214.6
	61	10042.6	-44798.5	195662.8	-43677.6	35773.5	1243.2
	62	9519.8	1097.5	37843.4	-85032.7	33963.7	1417.2
	63	10084.6	15463.9	-4901.6	-97687.5	35955.7	1445.8
	64	9637.0	-38559.8	170646.4	-49693.8	34354.4	1276.5
	65	10201.8	-24193.4	127901.5	-62348.6	36346.4	1305.1
	66	9678.9	21702.6	-29917.9	-103703.7	34536.6	1479.1
	67	10243.7	36069.1	-72662.9	-116358.5	36528.6	1507.7
	68	-4097.4	62501.8	-170781.3	-139169.8	-14178.0	-119.3
	69	-4049.7	68683.3	-191109.7	-144771.1	-14006.2	-100.7
	70	1931.6	62203.1	-170418.7	-139467.7	7159.3	693.6
	71	1979.4	68384.6	-190747.1	-145069.0	7331.2	712.1
	72	-2214.8	110389.9	-313264.6	-181352.5	-7538.0	-23.9

	73	-2167.1	116571.5	-333593.0	-186953.8	-7366.2	-5.4
	74	3814.3	110091.2	-312902.0	-181650.3	13799.3	788.9
	75	3862.0	116272.8	-333230.4	-187251.6	13971.2	807.5
49	44	-10331.2	-40921.6	-86738.6	125206.5	-36258.3	1191.6
	45	-10858.3	-25036.6	-39214.8	112699.0	-38198.2	1221.1
	46	-10410.4	25899.8	136720.3	73003.7	-36535.1	1401.1
	47	-10937.5	41784.8	184244.0	60496.3	-38475.0	1430.6
	48	-10501.5	-18071.2	-11310.4	107252.2	-36878.6	1256.5
	49	-11028.6	-2186.1	36213.3	94744.7	-38818.4	1286.0
	50	-10580.7	48750.3	212148.4	55049.4	-37155.3	1466.0
	51	-11107.7	64635.3	259672.2	42541.9	-39095.2	1495.5
	52	-2301.6	-129640.9	-375818.8	194908.9	-7763.6	-12.9
	53	-2352.7	-122785.8	-353190.4	189522.6	-7949.7	6.6
	54	4025.8	-129834.6	-375247.8	195330.0	14629.7	-825.9
	55	3974.7	-122979.5	-352619.3	189943.7	14443.6	-806.4
	56	-4058.6	-76690.8	-217406.3	153217.3	-14230.0	85.3
	57	-4109.6	-69835.7	-194777.8	147831.0	-14416.0	104.8
	58	2268.8	-76884.5	-216835.2	153638.4	8163.4	-727.6
	59	2217.8	-70029.4	-194206.7	148252.1	7977.3	-708.2
	60	10760.1	-41567.4	-84834.9	126610.0	38386.3	-1518.3
	61	10233.0	-25682.4	-37311.2	114102.5	36446.4	-1488.8
	62	10681.0	25254.1	138623.9	74407.2	38109.5	-1308.8
	63	10153.9	41139.1	186147.7	61899.7	36169.6	-1279.3
	64	10589.8	-18716.9	-9406.8	108655.6	37766.0	-1453.4
	65	10062.7	-2831.9	38117.0	96148.2	35826.1	-1423.9
	66	10510.7	48104.5	214052.0	56452.9	37489.2	-1243.9
	67	9983.6	63989.6	261575.8	43945.4	35549.3	-1214.4
	68	-2565.4	93097.3	369043.9	20899.8	-8686.3	685.3
	69	-2616.5	99952.4	391672.4	15513.5	-8872.4	704.8
	70	3762.0	92903.6	369615.0	21320.9	13707.1	-127.6
	71	3710.9	99758.7	392243.5	15934.6	13521.0	-108.2
	72	-4322.3	146047.4	527456.5	-20791.8	-15152.6	783.6
	73	-4373.4	152902.5	550084.9	-26178.1	-15338.7	803.0
	74	2005.1	145853.7	528027.6	-20370.7	7240.8	-29.4
	75	1954.0	152708.8	550656.1	-25757.0	7054.7	-9.9
50	44	-10339.6	-59773.0	239850.3	-23724.9	-36279.6	-1392.6
	45	-11157.8	-44529.6	198478.7	-41185.8	-38912.3	-1383.9
	46	-10456.7	3503.6	46873.9	-102513.6	-36649.7	-1331.0
	47	-11274.9	18746.9	5502.3	-119974.5	-39282.3	-1322.3
	48	-10601.9	-38148.5	174465.3	-50668.2	-37119.7	-1374.1
	49	-11420.1	-22905.1	133093.6	-68129.1	-39752.3	-1365.4
	50	-10719.0	25128.1	-18511.2	-129457.0	-37489.7	-1312.5
	51	-11537.2	40371.4	-59882.8	-146917.9	-40122.3	-1303.8
	52	-1875.1	-144096.7	490204.1	79161.2	-6753.5	-519.2
	53	-1953.8	-137609.4	470588.5	71078.2	-7005.5	-513.6
	54	4523.5	-144341.7	490060.4	79182.6	15804.0	294.2
	55	4444.8	-137854.4	470444.9	71099.6	15552.0	299.7
	56	-4602.5	-93285.6	352298.7	20958.2	-15528.9	-490.2
	57	-4681.2	-86798.3	332683.1	12875.2	-15780.9	-484.6
	58	1796.1	-93530.6	352155.0	20979.6	7028.6	323.2

59	1717.4	-87043.3	332539.5	12896.6	6776.6	328.7
60	10989.1	-60589.6	239371.5	-23653.4	38912.0	1318.6
61	10170.9	-45346.2	197999.9	-41114.3	36279.4	1327.3
62	10872.0	2687.0	46395.1	-102442.1	38542.0	1380.2
63	10053.7	17930.3	5023.4	-119903.1	35909.4	1388.9
64	10726.8	-38965.0	173986.5	-50596.8	38072.0	1337.1
65	9908.6	-23721.7	132614.8	-68057.7	35439.4	1345.8
66	10609.7	24311.5	-18990.0	-129385.5	37702.0	1398.7
67	9791.4	39554.9	-60361.6	-146846.4	35069.4	1407.4
68	-2265.6	66825.1	-153050.7	-183467.9	-7986.9	-313.9
69	-2344.2	73312.5	-172666.2	-191550.9	-8238.9	-308.3
70	4133.1	66580.2	-153194.4	-183446.4	14570.6	499.5
71	4054.4	73067.5	-172809.9	-191529.4	14318.6	505.0
72	-4993.0	117636.2	-290956.1	-241670.9	-16762.3	-284.9
73	-5071.7	124123.6	-310571.7	-249753.9	-17014.3	-279.3
74	1405.6	117391.2	-291099.8	-241649.5	5795.2	528.5
75	1326.9	123878.6	-310715.3	-249732.5	5543.2	534.0

51	44	-13002.9	-12947.8	14575.4	15008.2	-39466.9	531.6
	45	-12941.5	-15893.3	-10484.8	18577.6	-39287.2	661.9
	46	-12964.6	16422.1	270633.1	-20522.3	-39111.8	572.8
	47	-12903.3	13476.6	245572.9	-16952.9	-38932.1	703.2
	48	-12928.5	-17863.5	-20679.6	21178.5	-39229.8	576.9
	49	-12867.1	-20809.0	-45739.9	24747.9	-39050.0	707.3
	50	-12890.2	11506.4	235378.1	-14352.0	-38874.6	618.2
	51	-12828.9	8560.9	210317.8	-10782.5	-38694.9	748.5
	52	-4135.0	-44572.6	-272486.3	54135.9	-12771.8	-89.5
	53	-4112.7	-46047.3	-283062.8	55987.0	-12700.6	-75.9
	54	3543.2	-43780.5	-276965.2	53861.8	10573.4	-463.8
	55	3565.5	-45255.1	-287541.7	55712.9	10644.6	-450.2
	56	-3930.5	-54391.0	-356020.5	66034.1	-12172.7	345.0
	57	-3908.2	-55865.7	-366597.0	67885.2	-12101.6	358.6
	58	3747.8	-53598.9	-360499.5	65760.0	11172.5	-29.4
	59	3770.1	-55073.6	-371076.0	67611.1	11243.6	-15.8
	60	12591.3	-10307.4	-354.4	14094.6	38350.5	-716.3
	61	12652.7	-13252.9	-25414.7	17664.0	38530.2	-586.0
	62	12629.6	19062.5	255703.3	-21435.9	38705.6	-675.1
	63	12690.9	16117.0	230643.0	-17866.5	38885.3	-544.7
	64	12665.7	-15223.1	-35609.5	20264.9	38587.7	-671.0
	65	12727.1	-18168.6	-60669.8	23834.4	38767.4	-540.6
	66	12704.0	14146.8	220448.2	-15265.6	38942.8	-629.7
	67	12765.3	11201.3	195387.9	-11696.1	39122.5	-499.4
	68	-4007.6	53327.1	581039.4	-64299.1	-11588.1	48.0
	69	-3985.3	51852.4	570462.9	-62448.0	-11516.9	61.6
	70	3670.6	54119.2	576560.4	-64573.2	11757.2	-326.4
	71	3693.0	52644.5	565983.9	-62722.1	11828.3	-312.8
	72	-3803.1	43508.6	497505.1	-52400.9	-10989.0	482.4
	73	-3780.8	42034.0	486928.6	-50549.8	-10917.9	496.0
	74	3875.2	44300.8	493026.2	-52675.0	12356.2	108.1
	75	3897.5	42826.1	482449.6	-50823.9	12427.4	121.7

52	44	-16975.6	-9141.8	110678.5	50649.2	-60557.9	-338.2
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45	-16978.1	-11214.4	93892.5	52568.8	-60808.2	-299.8
46	-16980.7	10157.0	278980.7	33271.3	-60971.2	-72.1
47	-16983.1	8084.4	262194.7	35191.0	-61221.5	-33.6
48	-16957.8	-13981.8	86701.1	54105.0	-60484.2	-256.1
49	-16960.2	-16054.4	69915.1	56024.7	-60734.5	-217.6
50	-16962.8	5317.0	255003.3	36727.1	-60897.5	10.1
51	-16965.3	3244.4	238217.3	38646.8	-61147.8	48.5
52	-5084.3	-29511.7	-81058.2	67904.5	-17095.3	-565.9
53	-5078.9	-30963.7	-88251.4	68941.3	-17073.2	-541.3
54	5095.5	-28293.5	-86694.5	66199.9	19472.6	-481.1
55	5100.8	-29745.5	-93887.7	67236.6	19494.8	-456.5
56	-5092.4	-36420.4	-137011.5	74303.4	-17929.6	-437.7
57	-5087.0	-37872.4	-144204.7	75340.1	-17907.5	-413.1
58	5087.4	-35202.2	-142647.8	72598.7	18638.3	-352.9
59	5092.7	-36654.2	-149841.0	73635.5	18660.4	-328.3
60	16956.9	-5081.1	91890.8	44966.9	61335.3	-55.5
61	16954.4	-7153.7	75104.8	46886.6	61085.0	-17.1
62	16951.8	14217.7	260193.0	27589.1	60922.0	210.6
63	16949.4	12145.1	243407.0	29508.7	60671.7	249.1
64	16974.7	-9921.1	67913.4	48422.8	61408.9	26.6
65	16972.3	-11993.7	51127.4	50342.4	61158.6	65.1
66	16969.7	9377.7	236215.5	31044.9	60995.6	292.8
67	16967.3	7305.1	219429.6	32964.6	60745.3	331.2
68	-5101.1	34817.5	479949.1	9978.3	-18473.0	321.3
69	-5095.7	33365.5	472755.8	11015.0	-18450.9	345.9
70	5078.7	36035.7	474312.8	8273.6	18095.0	406.1
71	5084.0	34583.7	467119.5	9310.4	18117.1	430.7
72	-5109.2	27908.8	423995.8	16377.1	-19307.3	449.5
73	-5103.9	26456.8	416802.6	17413.9	-19285.2	474.1
74	5070.5	29127.0	418359.5	14672.4	17260.6	534.3
75	5075.9	27675.0	411166.3	15709.2	17282.7	558.9

53	44	-17983.1	-3138.1	240274.9	-16719.5	-64964.5	-90.7
	45	-18062.0	-4978.4	254279.6	-11844.7	-65410.7	-48.7
	46	-18076.3	13716.6	100712.4	-65260.1	-65299.5	203.4
	47	-18155.2	11876.3	114717.0	-60385.3	-65745.8	245.5
	48	-18006.4	-7435.0	260682.2	-9448.0	-65060.5	-0.1
	49	-18085.2	-9275.2	274686.8	-4573.2	-65506.7	41.9
	50	-18099.6	9419.7	121119.6	-57988.6	-65395.5	294.0
	51	-18178.4	7579.5	135124.3	-53113.8	-65841.8	336.1
	52	-4840.1	-23398.2	386238.5	38133.5	-17478.4	-537.3
	53	-4847.1	-24687.3	392360.6	40314.9	-17507.2	-510.1
	54	6260.3	-24460.5	379670.0	39303.1	22471.6	-611.1
	55	6253.3	-25749.6	385792.2	41484.6	22442.8	-583.9
	56	-5103.0	-29532.4	432920.6	54383.0	-18965.7	-397.2
	57	-5110.0	-30821.5	439042.8	56564.5	-18994.5	-370.0
	58	5997.4	-30594.7	426352.1	55552.7	20984.2	-471.1
	59	5990.4	-31883.8	432474.3	57734.1	20955.4	-443.9
	60	19018.2	-6679.1	218380.0	-12820.7	68202.1	-336.8
	61	18939.3	-8519.4	232384.6	-7945.8	67755.8	-294.8
	62	18925.0	10175.6	78817.5	-61361.3	67867.0	-42.7
	63	18846.1	8335.3	92822.1	-56486.5	67420.8	-0.7

	64	18994.9	-10976.0	238787.3	-5549.2	68106.1	-246.2
	65	18916.1	-12816.3	252791.9	-674.3	67659.8	-204.2
	66	18901.8	5878.7	99224.7	-54089.8	67771.0	47.9
	67	18822.9	4038.4	113229.3	-49215.0	67324.8	89.9
	68	-5150.7	32784.1	-78970.0	-123668.6	-18595.1	443.1
	69	-5157.7	31495.1	-72847.8	-121487.2	-18623.9	470.3
	70	5949.7	31721.8	-85538.5	-122499.0	21354.8	369.3
	71	5942.7	30432.8	-79416.3	-120317.5	21326.0	396.5
	72	-5413.5	26649.9	-32287.9	-107419.1	-20082.5	583.2
	73	-5420.5	25360.8	-26165.7	-105237.6	-20111.3	610.3
	74	5686.8	25587.6	-38856.4	-106249.4	19867.5	509.3
	75	5679.9	24298.5	-32734.2	-104068.0	19838.7	536.5
54	44	-13416.0	-9614.6	232548.0	-1061.3	-43209.9	-732.2
	45	-13492.5	-13216.3	260188.4	1762.4	-43421.4	-606.1
	46	-13537.0	26271.6	-50100.2	-28456.3	-43803.9	-662.2
	47	-13613.4	22669.8	-22459.8	-25632.7	-44015.3	-536.0
	48	-13507.7	-17090.3	272110.8	3935.8	-43497.3	-679.6
	49	-13584.1	-20692.1	299751.2	6759.5	-43708.8	-553.5
	50	-13628.6	18795.8	-10537.5	-23459.2	-44091.3	-609.6
	51	-13705.1	15194.1	17103.0	-20635.6	-44302.8	-483.4
	52	-3634.5	-51345.3	536494.8	29753.6	-11448.7	-524.4
	53	-3662.0	-53588.0	548363.6	31252.7	-11534.9	-508.7
	54	4579.8	-52587.4	530144.0	30095.7	15056.0	-165.8
	55	4552.3	-54830.1	542012.8	31594.9	14969.8	-150.0
	56	-3889.3	-63351.1	628629.6	39165.7	-12153.6	-103.8
	57	-3916.8	-65593.8	640498.4	40664.8	-12239.8	-88.0
	58	4325.0	-64593.2	622278.8	39507.8	14351.1	254.8
	59	4297.5	-66835.9	634147.6	41007.0	14264.9	270.6
	60	13965.0	-13754.8	211378.7	79.3	45139.1	463.1
	61	13888.5	-17356.5	239019.2	2902.9	44927.6	589.3
	62	13844.0	22131.4	-71269.5	-27315.7	44545.1	533.2
	63	13767.6	18529.6	-43629.0	-24492.1	44333.6	659.4
	64	13873.3	-21230.6	250941.5	5076.4	44851.7	515.7
	65	13796.9	-24832.3	278581.9	7900.0	44640.2	641.9
	66	13752.3	14655.6	-31706.7	-22318.6	44257.7	585.8
	67	13675.9	11053.9	-4066.3	-19495.0	44046.2	712.0
	68	-4037.6	68275.2	-405665.9	-61563.2	-13428.6	-290.8
	69	-4065.1	66032.5	-393797.1	-60064.1	-13514.8	-275.0
	70	4176.7	67033.1	-412016.7	-61221.1	13076.1	67.8
	71	4149.2	64790.4	-400147.9	-59721.9	12989.9	83.6
	72	-4292.4	56269.4	-313531.1	-52151.1	-14133.5	129.8
	73	-4319.9	54026.7	-301662.3	-50652.0	-14219.7	145.6
	74	3921.9	55027.3	-319881.8	-51809.0	12371.2	488.4
	75	3894.4	52784.6	-308013.0	-50309.8	12285.0	504.2
55	44	-17963.8	1658.7	124071.7	36788.9	-51034.3	119.0
	45	-17903.0	-10298.6	148799.7	46466.3	-50853.5	138.3
	46	-17228.4	12560.5	70446.1	-50389.8	-48998.8	253.4
	47	-17167.7	603.2	95174.1	-40712.4	-48817.9	272.7
	48	-17815.4	1774.6	127456.6	50319.0	-50885.5	160.5
	49	-17754.6	-10182.7	152184.6	59996.4	-50704.6	179.8

50	-17080.0	12676.4	73831.0	-36859.6	-48850.0	294.9
51	-17019.3	719.1	98559.0	-27182.3	-48669.1	314.2
52	-6725.8	2227.4	176754.9	132331.8	-18948.0	-198.4
53	-6681.3	2262.1	177770.3	136390.8	-18903.3	-186.0
54	3658.3	1624.6	191998.8	132665.3	10726.4	-329.2
55	3702.8	1659.3	193014.3	136724.3	10771.0	-316.7
56	-6523.3	-37630.1	259181.5	164589.7	-18345.1	-134.0
57	-6478.8	-37595.3	260197.0	168648.7	-18300.4	-121.5
58	3860.8	-38232.9	274425.4	164923.2	11329.3	-264.8
59	3905.3	-38198.1	275440.9	168982.2	11373.9	-252.3
60	16649.9	-350.6	174884.8	37900.7	47880.2	-317.0
61	16710.6	-12307.9	199612.8	47578.1	48061.1	-297.6
62	17385.2	10551.2	121259.2	-49278.0	49915.7	-182.6
63	17446.0	-1406.1	145987.1	-39600.6	50096.6	-163.3
64	16798.3	-234.7	178269.7	51430.8	48029.0	-275.5
65	16859.0	-12192.0	202997.7	61108.2	48209.9	-256.1
66	17533.6	10667.1	124644.1	-35747.9	50064.5	-141.1
67	17594.4	-1290.2	149372.0	-26070.5	50245.4	-121.8
68	-4274.7	38566.6	-1997.2	-158263.8	-12162.8	249.5
69	-4230.2	38601.4	-981.7	-154204.8	-12118.2	262.0
70	6109.4	37963.8	13246.7	-157930.3	17511.5	118.8
71	6153.9	37998.6	14262.2	-153871.3	17556.2	131.2
72	-4072.2	-1290.8	80429.5	-126005.9	-11559.9	314.0
73	-4027.7	-1256.1	81444.9	-121946.9	-11515.3	326.4
74	6311.9	-1893.6	95673.4	-125672.4	18114.4	183.2
75	6356.4	-1858.9	96688.9	-121613.4	18159.1	195.6

56	44	-10339.9	-38630.9	123073.3	-10465.3	-31137.9	-1487.4
	45	-10370.1	-45276.9	141284.1	-8730.3	-31224.7	-1477.7
	46	-9957.5	20198.0	-42657.4	-22100.0	-30254.2	-1419.5
	47	-9987.8	13552.0	-24446.5	-20365.0	-30341.0	-1409.8
	48	-10411.2	-47874.2	151583.5	-10667.3	-31295.4	-1466.9
	49	-10441.5	-54520.2	169794.4	-8932.3	-31382.2	-1457.2
	50	-10028.8	10954.8	-14147.1	-22302.0	-30411.7	-1399.0
	51	-10059.1	4308.8	4063.7	-20567.0	-30498.5	-1389.3
	52	-3813.2	-103992.6	309069.1	-1328.6	-10969.8	-559.4
	53	-3834.6	-106765.6	317622.2	-1389.2	-11017.1	-553.2
	54	2154.6	-105061.0	312421.2	-3336.2	7161.3	307.5
	55	2133.2	-107834.0	320974.3	-3396.8	7114.1	313.7
	56	-3914.2	-126145.9	369772.0	4454.6	-11259.1	-527.0
	57	-3935.6	-128918.9	378325.1	4394.0	-11306.4	-520.9
	58	2053.6	-127214.3	373124.2	2447.0	6872.0	339.9
	59	2032.2	-129987.3	381677.3	2386.4	6824.8	346.0
	60	9552.8	-42192.3	134247.1	-17157.4	29299.2	1402.2
	61	9522.5	-48838.3	152458.0	-15422.5	29212.4	1411.9
	62	9935.1	16636.7	-31483.6	-28792.1	30183.0	1470.1
	63	9904.8	9990.7	-13272.7	-27057.2	30096.2	1479.8
	64	9481.4	-51435.5	162757.3	-17359.5	29141.7	1422.7
	65	9451.1	-58081.5	180968.2	-15624.5	29054.9	1432.4
	66	9863.8	7393.4	-2973.3	-28994.1	30025.4	1490.6
	67	9833.5	747.4	15237.6	-27259.2	29938.6	1500.3
	68	-2538.6	92103.8	-243366.4	-40110.8	-8024.0	-333.1

69	-2560.0	89330.8	-234813.3	-40171.4	-8071.3	-326.9
70	3429.2	91035.4	-240014.3	-42118.5	10107.1	533.8
71	3407.8	88262.4	-231461.2	-42179.1	10059.8	539.9
72	-2639.6	69950.5	-182663.5	-34327.6	-8313.4	-300.7
73	-2661.0	67177.5	-174110.4	-34388.2	-8360.6	-294.6
74	3328.2	68882.1	-179311.3	-36335.3	9817.8	566.1
75	3306.8	66109.1	-170758.3	-36395.9	9770.5	572.3

57	44	-12089.2	-12550.2	41803.6	15762.1	-37999.6	425.7
	45	-12039.7	-15568.1	17600.6	19335.6	-38196.2	445.6
	46	-11673.9	12710.7	259232.6	-14718.0	-36966.0	563.5
	47	-11624.4	9692.8	235029.6	-11144.6	-37162.6	583.4
	48	-11992.9	-22864.1	14398.4	20519.2	-37764.4	468.1
	49	-11943.3	-25882.0	-9804.6	24092.7	-37961.0	488.0
	50	-11577.6	2396.8	231827.3	-9961.0	-36730.8	605.9
	51	-11528.1	-621.1	207624.3	-6387.5	-36927.5	625.8
	52	-3937.0	-37989.3	-205237.8	46988.4	-11726.5	-148.2
	53	-3908.1	-41083.5	-213459.4	48415.5	-11656.0	-135.5
	54	3486.5	-34457.1	-215540.2	45419.9	11559.7	-495.2
	55	3515.4	-37551.3	-223761.8	46847.0	11630.2	-482.5
	56	-3772.0	-48049.1	-285914.6	58899.9	-12382.0	-81.9
	57	-3743.1	-51143.3	-294136.1	60327.1	-12311.4	-69.2
	58	3651.5	-44516.9	-296216.9	57331.5	10904.2	-428.9
	59	3680.4	-47611.1	-304438.4	58758.6	10974.8	-416.2
	60	12655.7	-776.2	7462.6	10533.9	39621.0	-731.0
	61	12705.2	-3794.2	-16740.4	14107.4	39424.4	-711.1
	62	13071.0	24484.7	224891.6	-19946.2	40654.6	-593.2
	63	13120.5	21466.7	200688.6	-16372.8	40458.0	-573.3
	64	12752.0	-11090.2	-19942.7	15291.0	39856.2	-688.5
	65	12801.6	-14108.1	-44145.7	18864.5	39659.6	-668.6
	66	13167.3	14170.7	197486.3	-15189.2	40889.8	-550.7
	67	13216.8	11152.8	173283.3	-11615.7	40693.2	-530.8
	68	-2552.8	46213.7	519525.4	-54612.1	-8281.2	311.1
	69	-2523.9	43119.5	511303.8	-53185.0	-8210.7	323.8
	70	4870.7	49745.9	509223.1	-56180.6	15005.0	-35.9
	71	4899.6	46651.7	501001.5	-54753.5	15075.5	-23.2
	72	-2387.7	36154.0	438848.7	-42700.6	-8936.7	377.4
	73	-2358.8	33059.8	430627.1	-41273.5	-8866.1	390.1
	74	5035.7	39686.1	428546.4	-44269.1	14349.5	30.4
	75	5064.6	36592.0	420324.8	-42841.9	14420.1	43.1

58	44	-18485.5	-8133.0	147603.4	59922.7	-64869.4	-335.4
	45	-18492.2	-10373.5	130926.4	61891.4	-64858.5	-297.4
	46	-18340.8	7040.3	291150.3	46202.2	-64284.1	-67.2
	47	-18347.4	4799.8	274473.3	48170.9	-64273.2	-29.2
	48	-18468.1	-8596.8	141157.2	60598.8	-64793.2	-252.9
	49	-18474.7	-10837.3	124480.2	62567.4	-64782.4	-214.9
	50	-18323.3	6576.5	284704.1	46878.3	-64208.0	15.3
	51	-18330.0	4336.0	268027.1	48847.0	-64197.1	53.3
	52	-5896.5	-22754.8	-27919.7	66496.4	-20627.9	-565.6
	53	-5891.3	-22894.0	-29853.6	66699.2	-20605.0	-540.8
	54	5027.0	-22215.8	-49564.3	60176.4	17866.7	-481.3

55	5032.2	-22355.0	-51498.2	60379.2	17889.5	-456.6
56	-5918.6	-30223.2	-83509.5	73058.6	-20591.6	-438.9
57	-5913.4	-30362.3	-85443.4	73261.4	-20568.8	-414.1
58	5004.9	-29684.2	-105154.1	66738.6	17903.0	-354.7
59	5010.1	-29823.3	-107088.0	66941.4	17925.8	-329.9
60	17926.2	-6336.4	75454.8	38856.0	63445.9	-54.7
61	17919.5	-8576.9	58777.9	40824.7	63456.8	-16.7
62	18071.0	8836.9	219001.7	25135.6	64031.1	213.5
63	18064.3	6596.4	202324.8	27104.2	64042.0	251.5
64	17943.6	-6800.2	69008.6	39532.1	63522.0	27.8
65	17937.0	-9040.7	52331.7	41500.7	63532.9	65.8
66	18088.4	8373.2	212555.5	25811.6	64107.2	296.0
67	18081.8	6132.7	195878.6	27780.3	64118.1	334.0
68	-5413.9	27823.0	450569.9	20761.6	-18677.0	328.5
69	-5408.7	27683.8	448636.0	20964.4	-18654.2	353.3
70	5509.6	28362.0	428925.4	14441.6	19817.5	412.7
71	5514.8	28222.8	426991.5	14644.4	19840.4	437.5
72	-5436.0	20354.6	394980.1	27323.8	-18640.8	455.2
73	-5430.8	20215.5	393046.3	27526.6	-18617.9	479.9
74	5487.5	20893.6	373335.6	21003.8	19853.8	539.4
75	5492.7	20754.5	371401.7	21206.6	19876.6	564.2

59	44	-20265.5	-5339.1	273201.1	-25115.1	-70446.2	-97.0
	45	-20293.8	-7376.6	287075.6	-20086.1	-71065.4	-55.5
	46	-19952.4	7839.3	155076.3	-65926.6	-70104.3	198.4
	47	-19980.7	5801.8	168950.9	-60897.7	-70723.5	239.8
	48	-20328.3	-6309.1	278459.7	-12890.9	-70644.3	-6.2
	49	-20356.5	-8346.6	292334.3	-7861.9	-71263.5	35.3
	50	-20015.1	6869.4	160335.0	-53702.4	-70302.4	289.2
	51	-20043.4	4831.9	174209.5	-48673.4	-70921.6	330.6
	52	-6813.9	-18260.1	369578.9	22492.7	-21373.0	-544.6
	53	-6832.8	-18551.1	371156.5	26159.9	-21432.4	-517.3
	54	5019.7	-17903.3	346360.7	23849.5	20471.8	-618.6
	55	5000.8	-18194.3	347938.3	27516.7	20412.4	-591.4
	56	-6908.2	-25051.8	415827.4	39255.9	-23437.1	-406.4
	57	-6927.0	-25342.8	417405.0	42923.1	-23496.6	-379.1
	58	4925.4	-24695.0	392609.2	40612.6	18407.7	-480.5
	59	4906.6	-24986.0	394186.8	44279.9	18348.3	-453.2
	60	19179.8	-4149.7	195807.0	-20592.4	69036.6	-343.9
	61	19151.5	-6187.2	209681.6	-15563.5	68417.3	-302.5
	62	19492.9	9028.8	77682.3	-61404.0	69378.5	-48.6
	63	19464.7	6991.3	91556.9	-56375.0	68759.3	-7.1
	64	19117.1	-5119.7	201065.7	-8368.2	68838.5	-253.1
	65	19088.8	-7157.2	214940.2	-3339.2	68219.2	-211.7
	66	19430.2	8058.8	82940.9	-49179.7	69180.4	42.2
	67	19401.9	6021.3	96815.5	-44150.8	68561.1	83.7
	68	-5770.2	25668.1	-24170.2	-113545.8	-20233.3	439.9
	69	-5789.0	25377.2	-22592.6	-109878.5	-20292.7	467.2
	70	6063.4	26025.0	-47388.4	-112189.0	21611.5	365.8
	71	6044.6	25734.0	-45810.8	-108521.7	21552.1	393.1
	72	-5864.4	18876.5	22078.3	-96782.6	-22297.4	578.1
	73	-5883.3	18585.5	23655.9	-93115.3	-22356.9	605.3

	74	5969.2	19233.3	-1139.9	-95425.8	19547.4	504.0
	75	5950.3	18942.3	437.7	-91758.5	19488.0	531.3
60	44	-12904.6	-3045.1	247068.7	-4719.5	-42659.5	-632.7
	45	-12956.4	-6733.9	273597.0	-1798.8	-42841.2	-509.3
	46	-13162.3	27657.1	7994.2	-28202.6	-43387.2	-559.9
	47	-13214.1	23968.3	34522.6	-25281.9	-43568.9	-436.4
	48	-12980.9	-13827.3	258711.5	-1874.2	-42894.9	-580.3
	49	-13032.7	-17516.1	285239.8	1046.5	-43076.7	-456.9
	50	-13238.7	16874.9	19637.0	-25357.2	-43622.6	-507.5
	51	-13290.5	13186.1	46165.4	-22436.5	-43804.3	-384.1
	52	-3221.9	-41669.9	479716.3	22105.0	-10966.9	-463.5
	53	-3244.8	-44904.6	483209.2	22958.6	-11037.5	-447.8
	54	4790.9	-44528.9	463089.6	23681.5	15359.4	-138.0
	55	4768.0	-47763.6	466582.5	24535.1	15288.8	-122.3
	56	-3394.5	-53966.0	568144.0	31840.7	-11572.7	-52.1
	57	-3417.4	-57200.7	571636.9	32694.3	-11643.3	-36.4
	58	4618.3	-56825.0	551517.3	33417.2	14753.6	273.4
	59	4595.4	-60059.7	555010.1	34270.8	14683.0	289.1
	60	13804.8	-12575.1	191646.3	535.5	45094.8	452.5
	61	13753.1	-16263.9	218174.6	3456.2	44913.1	575.9
	62	13547.1	18127.1	-47428.2	-22947.6	44367.1	525.3
	63	13495.3	14438.3	-20899.8	-20026.9	44185.4	648.7
	64	13728.5	-23357.3	203289.1	3380.8	44859.4	504.8
	65	13676.7	-27046.1	229817.4	6301.5	44677.6	628.3
	66	13470.7	7344.9	-35785.4	-20102.2	44131.7	577.7
	67	13419.0	3656.1	-9257.0	-17181.5	43950.0	701.1
	68	-4081.0	60670.7	-317198.5	-56171.9	-13392.5	-220.7
	69	-4103.9	57436.0	-313705.7	-55318.3	-13463.2	-205.0
	70	3931.8	57811.7	-333825.3	-54595.4	12933.8	104.8
	71	3908.9	54577.0	-330332.4	-53741.8	12863.1	120.5
	72	-4253.6	48374.6	-228770.8	-46436.1	-13998.3	190.7
	73	-4276.5	45139.9	-225278.0	-45582.5	-14068.9	206.4
	74	3759.2	45515.6	-245397.5	-44859.6	12328.0	516.2
	75	3736.3	42280.9	-241904.7	-44006.0	12257.4	531.9
111	44	-14486.2	-1601.1	103224.5	5378.1	-35057.0	-122.7
	45	-13421.3	-914.3	103297.6	3524.7	-34697.9	-99.8
	46	-14359.7	1477.2	108669.0	-2961.2	-32268.0	40.0
	47	-13294.8	2164.1	108742.1	-4814.7	-31908.9	62.8
	48	-14172.8	-529.5	103908.3	2481.3	-34226.6	-67.8
	49	-13107.9	157.4	103981.4	627.9	-33867.5	-45.0
	50	-14046.4	2548.9	109352.8	-5858.0	-31437.6	94.8
	51	-12981.5	3235.7	109425.9	-7711.4	-31078.5	117.7
	52	-6726.9	-5618.6	76697.7	16245.3	-16071.3	-319.7
	53	-6633.0	-5297.1	76902.8	15376.2	-15822.1	-303.3
	54	1021.2	-5618.4	59272.8	16236.3	3101.2	-319.5
	55	1115.2	-5296.9	59478.0	15367.2	3350.4	-303.1
	56	-3177.3	-3329.1	76941.3	10067.2	-14874.3	-243.5
	57	-3083.3	-3007.6	77146.4	9198.2	-14625.2	-227.1
	58	4570.9	-3328.9	59516.5	10058.2	4298.2	-243.3
	59	4664.9	-3007.4	59721.6	9189.2	4547.3	-226.9

	60	11341.0	-1600.6	45141.8	5348.0	28851.3	-122.1
	61	12405.9	-913.8	45214.8	3494.6	29210.4	-99.2
	62	11467.5	1477.7	50586.3	-2991.3	31640.4	40.6
	63	12532.4	2164.5	50659.3	-4844.7	31999.5	63.5
	64	11654.3	-529.0	45825.6	2451.3	29681.8	-67.2
	65	12719.2	157.9	45898.7	597.8	30040.8	-44.3
	66	11780.8	2549.3	51270.1	-5888.1	32470.8	95.5
	67	12845.7	3236.2	51343.2	-7741.5	32829.9	118.3
	68	-6305.3	4642.5	94846.0	-11552.6	-6774.5	222.5
	69	-6211.3	4964.0	95051.2	-12421.6	-6525.3	239.0
	70	1442.8	4642.6	77421.2	-11561.6	12398.0	222.7
	71	1536.8	4964.1	77626.4	-12430.6	12647.2	239.1
	72	-2755.6	6932.0	95089.7	-17730.6	-5577.5	298.7
	73	-2661.7	7253.5	95294.8	-18599.7	-5328.4	315.2
	74	4992.5	6932.1	77664.8	-17739.6	13595.0	298.9
	75	5086.5	7253.6	77870.0	-18608.7	13844.1	315.4
123	44	-15201.3	-3052.8	177350.1	7519.1	-35499.5	-122.7
	45	-15135.4	-2252.2	176662.1	5497.7	-35348.2	-99.8
	46	-14798.0	540.3	173995.3	-1579.8	-34531.3	40.0
	47	-14732.1	1340.8	173307.4	-3601.2	-34379.9	62.8
	48	-15079.8	-1802.6	176355.9	4358.9	-35210.1	-67.8
	49	-15013.9	-1002.0	175667.9	2337.5	-35058.7	-45.0
	50	-14676.5	1790.5	173001.1	-4740.1	-34241.8	94.8
	51	-14610.6	2591.0	172313.2	-6761.4	-34090.5	117.7
	52	-6052.4	-7735.7	153367.8	19368.6	-13425.4	-319.7
	53	-6016.0	-7360.7	153069.6	18420.5	-13338.6	-303.3
	54	2222.3	-7731.2	129067.2	19353.0	6527.9	-319.5
	55	2258.7	-7356.1	128769.0	18404.9	6614.7	-303.1
	56	-5832.7	-5067.2	151074.7	12630.6	-12921.0	-243.5
	57	-5796.3	-4692.2	150776.4	11682.5	-12834.2	-227.1
	58	2442.0	-5062.7	126774.1	12615.0	7032.3	-243.3
	59	2478.4	-4687.6	126475.8	11666.9	7119.1	-226.9
	60	12380.9	-3037.5	96348.0	7467.2	31011.7	-122.1
	61	12446.8	-2237.0	95660.1	5445.8	31163.0	-99.2
	62	12784.2	555.5	92993.3	-1631.7	31979.9	40.6
	63	12850.1	1356.0	92305.4	-3653.1	32131.2	63.5
	64	12502.4	-1787.3	95353.8	4307.0	31301.1	-67.2
	65	12568.3	-986.8	94665.9	2285.6	31452.4	-44.3
	66	12905.7	1805.7	91999.1	-4791.9	32269.3	95.5
	67	12971.6	2606.2	91311.2	-6813.3	32420.7	118.3
	68	-4708.1	4241.1	142185.4	-10961.1	-10198.0	222.5
	69	-4671.7	4616.1	141887.1	-11909.2	-10111.1	239.0
	70	3566.5	4245.6	117884.8	-10976.7	9755.4	222.7
	71	3603.0	4620.7	117586.5	-11924.8	9842.2	239.1
	72	-4488.4	6909.6	139892.3	-17699.1	-9693.6	298.7
	73	-4452.0	7284.6	139594.0	-18647.2	-9606.7	315.2
	74	3786.2	6914.1	115591.6	-17714.7	10259.8	298.9
	75	3822.7	7289.2	115293.4	-18662.8	10346.6	315.4
135	44	-14628.4	-2630.7	158703.2	6897.0	-34104.6	-122.7
	45	-14690.2	-1817.7	159195.6	4857.1	-34247.2	-99.8

46	-15027.0	1022.0	161395.4	-2290.0	-35063.9	40.0
47	-15088.8	1835.0	161887.8	-4329.9	-35206.5	62.8
48	-14755.7	-1359.9	159467.4	3706.4	-34409.1	-67.8
49	-14817.5	-546.8	159959.8	1666.4	-34551.7	-45.0
50	-15154.2	2292.8	162159.7	-5480.7	-35368.4	94.8
51	-15216.0	3105.9	162652.1	-7520.6	-35511.0	117.7
52	-4473.2	-7379.4	127044.8	18843.7	-9634.5	-319.7
53	-4511.4	-6998.1	127274.1	17886.5	-9725.8	-303.3
54	3809.1	-7365.2	102864.5	18813.9	10329.4	-319.5
55	3770.9	-6983.9	103093.7	17856.7	10238.0	-303.1
56	-4679.2	-4669.2	128686.2	12043.9	-10109.8	-243.5
57	-4717.4	-4288.0	128915.5	11086.7	-10201.2	-227.1
58	3603.1	-4655.0	104505.9	12014.1	9854.0	-243.3
59	3564.9	-4273.7	104735.1	11056.9	9762.7	-226.9
60	12979.3	-2583.4	78102.0	6797.7	32441.6	-122.1
61	12917.5	-1770.3	78594.4	4757.7	32299.0	-99.2
62	12580.8	1069.3	80794.2	-2389.4	31482.3	40.6
63	12519.0	1882.4	81286.6	-4429.3	31339.7	63.5
64	12852.0	-1312.5	78866.2	3607.0	32137.1	-67.2
65	12790.2	-499.5	79358.6	1567.1	31994.5	-44.3
66	12453.5	2340.2	81558.4	-5580.1	31177.8	95.5
67	12391.7	3153.2	82050.9	-7620.0	31035.2	118.3
68	-5801.7	4796.2	136018.9	-11779.9	-12832.1	222.5
69	-5839.9	5177.5	136248.2	-12737.1	-12923.5	239.0
70	2480.6	4810.4	111838.6	-11809.7	7131.7	222.7
71	2442.5	5191.7	112067.8	-12766.9	7040.4	239.1
72	-6007.6	7506.4	137660.3	-18579.6	-13307.4	298.7
73	-6045.8	7887.7	137889.6	-19536.8	-13398.8	315.2
74	2274.7	7520.6	113480.0	-18609.4	6656.4	298.9
75	2236.5	7901.9	113709.3	-19566.6	6565.1	315.4

146	44	-13367.7	-3597.3	69933.8	8321.8	-31617.7	-122.7
	45	-14411.7	-2895.5	69544.8	6446.2	-31929.3	-99.8
	46	-13463.5	-447.7	64966.8	-123.0	-34368.2	40.0
	47	-14507.5	254.0	64577.8	-1998.6	-34679.9	62.8
	48	-13673.8	-2500.6	69072.8	5388.2	-32443.8	-67.8
	49	-14717.8	-1798.8	68683.8	3512.5	-32755.5	-45.0
	50	-13769.6	649.0	64105.8	-3056.7	-35194.3	94.8
	51	-14813.6	1350.7	63716.8	-4932.3	-35506.0	117.7
	52	-2941.8	-7686.6	61546.8	19295.6	-5725.4	-319.7
	53	-3033.6	-7357.6	61288.5	18415.5	-5973.2	-303.3
	54	4946.7	-7669.5	49260.3	19261.4	13653.6	-319.5
	55	4854.9	-7340.5	49002.0	18381.3	13405.8	-303.1
	56	-6421.7	-5347.4	60250.2	13043.6	-6764.3	-243.5
	57	-6513.6	-5018.4	59991.9	12163.5	-7012.2	-227.1
	58	1466.7	-5330.3	47963.7	13009.4	12614.7	-243.3
	59	1374.9	-5001.3	47705.4	12129.3	12366.8	-226.9
	60	12927.2	-3540.1	28978.8	8207.9	32979.0	-122.1
	61	11883.3	-2838.4	28589.8	6332.2	32667.3	-99.2
	62	12831.4	-390.6	24011.9	-237.0	30228.5	40.6
	63	11787.4	311.2	23622.9	-2112.6	29916.8	63.5
	64	12621.2	-2443.4	28117.8	5274.2	32152.9	-67.2

	65	11577.2	-1741.7	27728.8	3398.6	31841.2	-44.3
	66	12525.3	706.1	23150.9	-3170.6	29402.4	95.5
	67	11481.3	1407.9	22761.9	-5046.2	29090.7	118.3
	68	-3261.3	2811.8	44990.3	-8853.8	-14893.8	222.5
	69	-3353.1	3140.9	44732.0	-9733.9	-15141.6	239.0
	70	4627.2	2829.0	32703.8	-8887.9	4485.2	222.7
	71	4535.4	3158.0	32445.5	-9768.0	4237.4	239.1
	72	-6741.2	5151.0	43693.7	-15105.8	-15932.7	298.7
	73	-6833.0	5480.1	43435.4	-15985.9	-16180.6	315.2
	74	1147.3	5168.2	31407.2	-15140.0	3446.3	298.9
	75	1055.4	5497.2	31148.9	-16020.0	3198.4	315.4
Tot.	44	-694106.3	-431095.9	10964942.0	471392.6	-2177076.0	-4766.8
Tot.	45	-694225.3	-446949.7	10988374.0	463747.7	-2178732.8	-3479.3
Tot.	46	-691775.6	466042.0	10948673.0	-419869.7	-2171569.8	1878.0
Tot.	47	-691894.5	450188.3	10972104.0	-427514.5	-2173226.0	3165.5
Tot.	48	-693957.4	-450677.2	10946780.0	453224.7	-2177005.0	-2498.3
Tot.	49	-694076.7	-466531.0	10970209.0	445579.8	-2178661.5	-1210.7
Tot.	50	-691626.8	446460.7	10930513.0	-438037.6	-2171499.0	4146.6
Tot.	51	-691746.0	430606.8	10953940.0	-445682.4	-2173155.5	5434.1
Tot.	52	-211586.1	-1465943.3	10954563.0	1504416.1	-654270.9	-13520.4
Tot.	53	-211541.5	-1471817.5	10949115.0	1498965.9	-654249.5	-12839.9
Tot.	54	204169.5	-1465796.3	10958278.0	1496408.4	654819.8	-13771.8
Tot.	55	204214.1	-1471670.6	10952827.0	1490958.1	654841.0	-13091.2
Tot.	56	-211983.1	-1518789.1	11032665.0	1478933.3	-659792.3	-9228.8
Tot.	57	-211938.5	-1524663.6	11027217.0	1473483.0	-659770.9	-8548.2
Tot.	58	203772.5	-1518642.1	11036381.0	1470925.5	649298.3	-9480.1
Tot.	59	203817.1	-1524516.5	11030931.0	1465475.0	649319.6	-8799.5
Tot.	60	691745.9	-430606.8	10977330.0	444699.5	2186558.8	-5604.7
Tot.	61	691626.7	-446460.6	11000760.0	437054.8	2184902.8	-4317.2
Tot.	62	694076.5	466531.2	10961059.0	-446562.6	2192065.5	1040.1
Tot.	63	693957.6	450677.3	10984488.0	-454207.5	2190408.8	2327.6
Tot.	64	691894.5	-450188.2	10959163.0	426531.6	2186629.8	-3336.1
Tot.	65	691775.5	-466041.9	10982595.0	418886.8	2184973.5	-2048.6
Tot.	66	694225.3	446949.7	10942896.0	-464730.5	2192136.0	3308.7
Tot.	67	694106.1	431095.9	10966327.0	-472375.5	2190480.5	4596.2
Tot.	68	-203817.1	1524516.9	10900336.0	-1466457.9	-635915.9	8628.9
Tot.	69	-203772.5	1518642.4	10894888.0	-1471908.3	-635894.3	9309.5
Tot.	70	211938.5	1524663.5	10904051.0	-1474466.0	673174.8	8377.6
Tot.	71	211983.1	1518789.0	10898605.0	-1479916.0	673196.1	9058.1
Tot.	72	-204214.1	1471670.6	10978439.0	-1491940.6	-641437.3	12920.6
Tot.	73	-204169.5	1465796.4	10972992.0	-1497391.1	-641416.0	13601.2
Tot.	74	211541.5	1471817.8	10982154.0	-1499948.6	667653.4	12669.3
Tot.	75	211586.1	1465943.5	10976707.0	-1505398.8	667674.6	13349.8

N.B. I carichi nodali sono INCLUSI.

MASSIMI SPOSTAMENTI DIFFERENZIALI ORIZZONTALI

Massimi spostamenti differenziali orizzontali

- Fattore moltiplicativo spostamenti dovuti al sisma λ 1
- χ 1
- Controllo degli spostamenti di interpiano dU inferiori a 0.005 H

Spostamenti Max in direzione Ux [cm]

Nodi	Comb.	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
111	44	<u>1.70</u>	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
211	45	1.70	<u>1.68</u>	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
146	246	1.49	1.51	<u>1.63</u>	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
146	246	1.49	1.51	1.63	<u>1.65</u>	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
111	48	1.70	1.68	1.55	1.53	<u>1.66</u>	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
111	49	1.70	1.68	1.55	1.53	1.66	<u>1.64</u>	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
146	246	1.49	1.51	1.63	1.65	1.54	1.55	<u>1.68</u>	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
146	246	1.49	1.51	1.63	1.65	1.54	1.55	1.68	<u>1.69</u>	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
111	52	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	<u>0.78</u>	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
111	53	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	<u>0.76</u>	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
146	246	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
146	246	1.49	1.51	1.63	1.65	1.54	1.55	1.68	<u>1.69</u>	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
111	56	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	<u>0.71</u>	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
111	57	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	<u>0.69</u>	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78

146 246	58	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	<u>0.70</u>	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
146 246	59	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	<u>0.68</u>	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
146 246	60	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	<u>1.69</u>	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
146 246	61	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	<u>1.68</u>	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21	
111 211	62	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	<u>1.64</u>	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
111 211	63	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	<u>1.66</u>	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78	
146 246	64	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	<u>1.65</u>	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
146 246	65	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	<u>1.63</u>	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21	
111 211	66	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	<u>1.68</u>	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78
111 211	67	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	<u>1.70</u>	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	-0.78	
146 246	68	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	<u>0.68</u>	0.70	-0.27	-0.26	0.73	0.74	-0.23	-0.21
146 246	69	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	<u>0.70</u>	-0.27	-0.26	0.73	0.74	-0.23	-0.21
111 211	70	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	<u>0.69</u>	-0.71	0.19	0.18	-0.76	-0.78
111 211	71	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	<u>0.71</u>	0.19	0.18	-0.76	-0.78
146 246	72	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	<u>0.73</u>	0.74	-0.23	-0.21
146 246	73	1.49	1.51	1.63	1.65	1.54	1.55	1.68	1.69	0.21	0.23	-0.74	-0.73	0.26	0.27	-0.70	-0.68	-1.69	-1.68	-1.55	-1.54	-1.65	-1.63	-1.51	-1.49	0.68	0.70	-0.27	-0.26	0.73	<u>0.74</u>	-0.23	-0.21
111 211	74	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	<u>0.76</u>	-0.78
111 211	75	1.70	1.68	1.55	1.53	1.66	1.64	1.50	1.48	0.78	0.76	-0.18	-0.19	0.71	0.69	-0.25	-0.26	-1.48	-1.50	-1.64	-1.66	-1.53	-1.55	-1.68	-1.70	0.26	0.25	-0.69	-0.71	0.19	0.18	-0.76	<u>0.78</u>

Nodi	Comb.	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
146 246	44	<u>0.27</u>	0.24	-0.15	-0.18	0.20	0.17	-0.22	-0.25	0.75	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	45	0.27	<u>0.24</u>	-0.15	-0.18	0.20	0.17	-0.22	-0.25	0.75	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	46	0.27	0.24	<u>0.15</u>	-0.18	0.20	0.17	-0.22	-0.25	0.75	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	47	0.27	0.24	-0.15	<u>0.18</u>	0.20	0.17	-0.22	-0.25	0.75	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	48	0.27	0.24	-0.15	-0.18	<u>0.20</u>	0.17	-0.22	-0.25	0.75	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	49	0.27	0.24	-0.15	-0.18	0.20	<u>0.17</u>	-0.22	-0.25	0.75	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	50	0.27	0.24	-0.15	-0.18	0.20	0.17	<u>0.22</u>	-0.25	0.75	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	51	0.27	0.24	-0.15	-0.18	0.20	0.17	-0.22	<u>0.25</u>	0.75	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	52	0.27	0.24	-0.15	-0.18	0.20	0.17	-0.22	-0.25	<u>0.75</u>	0.73	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	53	0.27	0.24	-0.15	-0.18	0.20	0.17	-0.22	-0.25	0.75	<u>0.73</u>	0.74	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	54	0.27	0.24	-0.15	-0.18	0.20	0.17	-0.22	-0.25	0.75	0.73	<u>0.74</u>	0.72	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	55	0.27	0.24	-0.15	-0.18	0.20	0.17	-0.22	-0.25	0.75	0.73	0.74	<u>0.72</u>	0.67	0.65	0.66	0.64	0.25	0.22	-0.17	-0.20	0.18	0.15	-0.24	-0.27	-0.64	-0.66	-0.65	-0.67	-0.72	-0.74	-0.73	-0.75
146 246	56	0.27	0.24	-0.15	-0.18	0.																											

[illegible]

Spostamenti Max in direzione Uz [cm]

Nodi	Comb.	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
49	149	44	<u>0.07</u>	0.05	-0.03	-0.04	0.04	0.02	-	0.05	0.07	-	0.19	0.18	0.19	0.18	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
28	128	45	-	0.04	<u>0.05</u>	0.04	0.03	-	0.12	0.12	0.12	0.12	0.15	0.15	0.15	0.15	0.15	0.03	0.04	-	0.05	0.04	-	0.05	0.04	0.15	0.15	0.15	0.12	0.12	0.12	0.12	0.12
14	114	46	0.03	0.04	-	<u>0.07</u>	-0.06	0.05	0.06	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.18	0.19	0.04	0.05	-	0.06	0.07	-	0.04	0.03	0.19	0.18	0.18	0.15	0.15	0.15
14	114	47	0.03	0.04	-	0.05	0.06	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.18	0.19	0.04	0.05	-	0.06	0.05	-	0.06	0.07	-	0.04	0.03	0.19	0.18	0.15	0.15	0.15
26	126	48	-	0.04	-0.05	0.06	0.05	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.19	0.18	0.19	0.04	0.05	-	0.06	0.05	-	0.05	0.04	0.19	0.18	0.19	0.18	0.15	0.15	0.15
26	126	49	-	0.04	-0.05	0.06	0.05	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.19	0.18	0.19	0.04	0.05	-	0.06	0.05	-	0.05	0.04	0.19	0.18	0.19	0.18	0.15	0.15	0.15
49	149	50	0.07	0.05	-0.03	-0.04	0.04	0.02	-	<u>0.05</u>	0.07	-	0.19	0.18	0.19	0.18	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
49	149	51	0.07	0.05	-0.03	-0.04	0.04	0.02	-	0.05	<u>0.07</u>	-	0.19	0.18	0.19	0.18	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
49	149	52	0.07	0.05	-0.03	-0.04	0.04	0.02	-	0.05	0.07	-	<u>0.19</u>	0.18	0.19	0.18	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
49	149	53	0.07	0.05	-0.03	-0.04	0.04	0.02	-	0.05	0.07	-	0.19	<u>0.18</u>	0.19	0.18	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
49	149	54	0.07	0.05	-0.03	-0.04	0.04	0.02	-	0.05	0.07	-	0.19	0.18	<u>0.19</u>	0.18	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
49	149	55	0.07	0.05	-0.03	-0.04	0.04	0.02	-	0.05	0.07	-	0.19	0.18	0.19	<u>0.18</u>	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
26	126	56	-	0.04	-0.05	0.06	0.05	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.19	0.18	0.19	0.04	0.05	-	0.06	0.05	-	0.05	0.04	0.19	0.18	0.19	0.18	0.15	0.15	0.15
26	126	57	-	0.04	-0.05	0.06	0.05	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.19	0.18	0.19	0.04	0.05	-	0.06	0.05	-	0.05	0.04	0.19	0.18	0.19	0.18	0.15	0.15	0.15
14	114	58	0.03	0.04	-0.07	-0.06	0.05	0.06	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.18	0.19	0.04	0.05	-	0.06	0.05	-	0.06	0.07	-	0.04	0.03	0.19	0.18	0.15	0.15
14	114	59	0.03	0.04	-0.07	-0.06	0.05	0.06	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.18	0.19	0.04	0.05	-	0.06	0.05	-	0.06	0.07	-	0.04	0.03	0.19	0.18	0.15	0.15
49	149	60	0.07	0.05	-0.03	-0.04	0.04	0.02	-	0.05	0.07	-	0.19	0.18	0.19	0.18	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
49	149	61	0.07	0.05	-0.03	-0.04	0.04	0.02	-	0.05	0.07	-	0.19	0.18	0.19	0.18	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.12	0.13	0.18	0.19	0.18	0.19
26	126	62	-	0.04	-0.05	0.06	0.05	-	0.05	0.04	-	0.15	0.15	0.15	0.18	0.19	0.18	0.19	0.04	0.05	-	<u>0.06</u>	0.05	-	0.05	0.04	0.19	0.18	0.19	0.18	0.15	0.15	0.15

[illegible]

Spostamenti Massimi :

- Combinazione di Carico 44
- Fra i nodi 111 211
- In direzione [Uxyz]
- Spostamento 1.72

Non si sono rilevati spostamenti di interpiano superiori a 0.005000 H

Valutazione Effetti NON-Linearì Pd_f/N_h < 0.1

$$V_x P \delta = N \delta_x / h$$

$$V_y P \delta = N \delta_v / h$$

$$V_P \delta = N \delta / h \quad \delta = \sqrt{\delta_x^2 + \delta_y^2}$$

Fattore di struttura 3.50

Fattore di importanza γ_i 1.40

Solaio	Combinazione	Solaio	Altezza	P	Direzione x			Direzione y			Direzione $U=\sqrt{U_x^2+U_y^2}$					
					V	V Pδ	U	V	V Pδ	U	V	V Pδ	U			
		Sottostante	[m]	[kg]	[kg]	[kg]	[cm]	[kg]	[kg]	[cm]	[kg]	[kg]	[cm]	[cm]		
5	1	4	3.70	1310652.4	328853.2	8520.8	2.41	0.0259	140641.1	2454.1	0.69	0.0174	357665.1	8867.2	2.50	0.0248
	2	4	3.70	1310652.6	328317.8	7585.3	2.14	0.0231	144376.5	986.3	0.28	0.0068	358660.2	7649.1	2.16	0.0213
	3	4	3.70	1310652.8	328318.4	8326.9	2.35	0.0254	-141590.4	2241.6	-0.63	0.0158	357548.4	8623.4	2.43	0.0241
	4	4	3.70	1310652.8	327783.0	7826.5	2.21	0.0239	-137855.1	1407.0	-0.40	0.0102	355592.0	7952.0	2.24	0.0224
	5	4	3.70	1310653.0	329031.1	7996.9	2.26	0.0243	152056.9	1541.9	0.44	0.0101	362467.6	8144.2	2.30	0.0225
	6	4	3.70	1310652.4	328495.6	8113.2	2.29	0.0247	155792.3	1766.2	0.50	0.0113	363566.5	8303.2	2.34	0.0228
	7	4	3.70	1310652.6	328496.3	7803.0	2.20	0.0238	-130174.7	1461.6	-0.41	0.0112	353348.6	7938.7	2.24	0.0225
	8	4	3.70	1310652.6	327960.8	8354.5	2.36	0.0255	-126439.3	2319.1	-0.65	0.0183	351489.9	8670.4	2.45	0.0247
	9	4	3.70	1310652.8	100279.3	4403.9	1.24	0.0439	464578.1	6642.4	1.88	0.0143	475277.6	7969.6	2.25	0.0168
	10	4	3.70	1310652.5	100332.6	4246.7	1.20	0.0423	468002.9	6368.7	1.80	0.0136	478637.0	7654.7	2.16	0.0160
	11	4	3.70	1310652.9	-96764.9	4664.7	-1.32	0.0482	460317.7	6644.9	1.88	0.0144	470378.4	8118.7	2.29	0.0173
	12	4	3.70	1310652.8	-96711.6	4506.3	-1.27	0.0466	463742.4	6371.3	1.80	0.0137	473719.5	7803.8	2.20	0.0165
	13	4	3.70	1310652.6	98494.4	3334.4	0.94	0.0339	477029.5	5045.8	1.42	0.0106	487091.7	6048.0	1.71	0.0124
	14	4	3.70	1310652.3	98547.7	3492.8	0.99	0.0354	480454.2	5279.8	1.49	0.0110	490456.8	6330.5	1.79	0.0129
	15	4	3.70	1310652.8	-98549.8	3620.3	-1.02	0.0367	472768.9	5063.5	1.43	0.0107	482931.2	6224.6	1.76	0.0129
	16	4	3.70	1310652.4	-98496.5	3777.4	-1.07	0.0384	476193.6	5297.5	1.50	0.0111	486273.5	6506.3	1.84	0.0134
	17	4	3.70	1310652.4	-327960.8	8722.2	-2.46	0.0266	126439.3	2462.5	0.70	0.0195	351489.9	9063.2	2.56	0.0258
	18	4	3.70	1310652.9	-328496.3	7822.8	-2.21	0.0238	130174.7	1045.3	0.30	0.0080	353348.6	7892.4	2.23	0.0223

19	4	3.70	1310652.8	-328495.6	8480.9	-2.39	0.0258	-155792.3	2182.6	-0.62	0.0140	363566.5	8757.3	2.47	0.0241
20	4	3.70	1310652.8	-329031.1	8016.7	-2.26	0.0244	-152056.9	1398.5	-0.39	0.0092	362467.6	8137.8	2.30	0.0225
21	4	3.70	1310652.8	-327782.9	8194.3	-2.31	0.0250	137855.1	1550.4	0.44	0.0112	355592.0	8339.7	2.35	0.0235
22	4	3.70	1310652.4	-328318.4	8346.7	-2.36	0.0254	141590.4	1825.3	0.52	0.0129	357548.4	8544.0	2.41	0.0239
23	4	3.70	1310652.6	-328317.8	7953.0	-2.25	0.0242	-144376.5	1402.6	-0.40	0.0097	358660.2	8075.8	2.28	0.0225
24	4	3.70	1310652.4	-328853.3	8540.6	-2.41	0.0260	-140641.1	2310.7	-0.65	0.0164	357665.2	8847.6	2.50	0.0247
25	4	3.70	1310652.4	98496.5	3757.6	1.06	0.0382	-476193.7	5713.8	-1.61	0.0120	486273.6	6838.7	1.93	0.0141
26	4	3.70	1310652.4	98549.8	3600.5	1.02	0.0365	-472768.9	5479.8	-1.55	0.0116	482931.2	6556.8	1.85	0.0136
27	4	3.70	1310652.5	-98547.7	3860.5	-1.09	0.0392	-480454.2	5696.1	-1.61	0.0119	490456.8	6881.1	1.94	0.0140
28	4	3.70	1310652.4	-98494.4	3702.1	-1.05	0.0376	-477029.4	5462.1	-1.54	0.0115	487091.6	6598.5	1.86	0.0135
29	4	3.70	1310652.6	96711.6	4138.6	1.17	0.0428	-463742.4	6227.9	-1.76	0.0134	473719.4	7477.6	2.11	0.0158
30	4	3.70	1310652.9	96764.9	4296.9	1.21	0.0444	-460317.6	6501.5	-1.84	0.0141	470378.3	7793.1	2.20	0.0166
31	4	3.70	1310652.8	-100332.6	4266.5	-1.20	0.0425	-468002.9	6225.3	-1.76	0.0133	478637.0	7547.0	2.13	0.0158
32	4	3.70	1310652.8	-100279.3	4423.7	-1.25	0.0441	-464578.2	6499.0	-1.83	0.0140	475277.6	7861.6	2.22	0.0165
1	3	3.70	3472033.0	561104.8	31240.6	3.33	0.0557	260107.0	6232.5	0.66	0.0240	618461.2	31856.2	3.39	0.0515
2	3	3.70	3498216.3	561825.2	29091.4	3.08	0.0518	263191.4	2605.0	0.28	0.0099	620417.0	29207.8	3.09	0.0471
3	3	3.70	3497088.3	561115.1	30861.6	3.27	0.0550	-246526.4	5912.3	-0.63	0.0240	612882.8	31422.8	3.32	0.0513
4	3	3.70	3523271.0	561835.3	29913.1	3.14	0.0532	-243441.9	3872.7	-0.41	0.0159	612309.5	30162.8	3.17	0.0493
5	3	3.70	3482387.5	561102.9	29956.6	3.18	0.0534	238632.8	4016.9	0.43	0.0168	609739.3	30224.7	3.21	0.0496
6	3	3.70	3508571.5	561822.9	30573.2	3.22	0.0544	241717.3	4839.2	0.51	0.0200	611614.5	30953.8	3.26	0.0506
7	3	3.70	3507442.0	561112.9	29565.8	3.12	0.0527	-268000.5	3704.0	-0.39	0.0138	621829.5	29796.9	3.14	0.0479
8	3	3.70	3533624.5	561833.2	31406.7	3.29	0.0559	-264916.1	6151.1	-0.64	0.0232	621157.8	32003.4	3.35	0.0515
9	3	3.70	3410221.5	167223.6	13953.8	1.51	0.0834	841747.9	16908.0	1.83	0.0201	858197.7	21922.3	2.38	0.0255
10	3	3.70	3413327.5	167223.0	13561.5	1.47	0.0811	835305.7	16266.4	1.76	0.0195	851879.8	21178.1	2.30	0.0249
11	3	3.70	3405369.5	-169657.8	14689.5	-1.60	0.0866	843190.7	16915.8	1.84	0.0201	860089.7	22403.7	2.43	0.0260
12	3	3.70	3408476.5	-169658.4	14296.1	-1.55	0.0843	836748.3	16275.2	1.77	0.0195	853775.0	21662.4	2.35	0.0254
13	3	3.70	3497497.0	169624.5	11513.6	1.22	0.0679	852029.5	13380.4	1.42	0.0157	868750.1	17652.1	1.87	0.0203
14	3	3.70	3500603.3	169623.9	11941.5	1.26	0.0704	845587.3	14058.7	1.49	0.0166	862432.6	18445.8	1.95	0.0214
15	3	3.70	3492645.0	-167256.9	12237.6	-1.30	0.0732	853472.3	13415.0	1.42	0.0157	869706.8	18158.2	1.92	0.0209
16	3	3.70	3495751.5	-167257.5	12663.2	-1.34	0.0757	847030.0	14092.4	1.49	0.0166	863385.7	18946.1	2.01	0.0219
17	3	3.70	3455862.5	-561833.3	31828.3	-3.41	0.0567	264916.1	6311.2	0.68	0.0238	621157.9	32448.0	3.47	0.0522
18	3	3.70	3482044.8	-561113.1	29723.8	-3.16	0.0530	268000.5	2769.8	0.29	0.0103	621829.7	29852.6	3.17	0.0480
19	3	3.70	3480916.5	-561823.0	31453.0	-3.34	0.0560	-241717.3	5708.1	-0.61	0.0236	611614.5	31966.8	3.40	0.0523
20	3	3.70	3507098.0	-561102.9	30543.9	-3.22	0.0544	-238632.8	3745.5	-0.40	0.0157	609739.3	30772.7	3.25	0.0505
21	3	3.70	3466216.5	-561835.4	30544.9	-3.26	0.0544	243441.9	4106.3	0.44	0.0169	612309.5	30819.7	3.29	0.0503
22	3	3.70	3492399.3	-561115.1	31193.4	-3.30	0.0556	246526.4	4994.2	0.53	0.0203	612882.8	31590.7	3.35	0.0515

23	3	3.70	3491270.3	-561825.1	30157.8	-3.20	0.0537	-263191.5	3509.6	-0.37	0.0133	620417.0	30361.3	3.22	0.0489
24	3	3.70	3517453.8	-561104.9	32025.2	-3.37	0.0571	-260107.0	6013.3	-0.63	0.0231	618461.3	32584.8	3.43	0.0527
25	3	3.70	3493735.0	167257.6	12282.5	1.30	0.0734	-847030.0	14994.8	-1.59	0.0177	863385.7	19383.1	2.05	0.0225
26	3	3.70	3496841.8	167257.0	11878.6	1.26	0.0710	-853472.3	14342.4	-1.52	0.0168	869706.7	18622.7	1.97	0.0214
27	3	3.70	3488883.3	-169623.9	13025.0	-1.38	0.0768	-845587.3	14920.8	-1.58	0.0176	862432.6	19806.1	2.10	0.0230
28	3	3.70	3491989.8	-169624.5	12619.9	-1.34	0.0744	-852029.6	14269.3	-1.51	0.0167	868750.2	19049.2	2.02	0.0219
29	3	3.70	3581011.5	169658.5	13866.7	1.43	0.0817	-836748.4	16792.8	-1.74	0.0201	853775.1	21778.1	2.25	0.0255
30	3	3.70	3584117.3	169657.8	14306.4	1.48	0.0843	-843190.7	17497.2	-1.81	0.0208	860089.7	22601.5	2.33	0.0263
31	3	3.70	3576159.0	-167223.0	14590.6	-1.51	0.0873	-835305.7	16736.6	-1.73	0.0200	851879.8	22203.6	2.30	0.0261
32	3	3.70	3579265.3	-167223.6	15028.0	-1.55	0.0899	-841747.9	17440.0	-1.80	0.0207	858197.7	23021.6	2.38	0.0268
3	2	3.70	5637945.5	802089.8	28043.9	1.84	0.0350	338923.9	13038.5	0.86	0.0385	870756.8	30926.7	2.03	0.0355
3	1	3.70	5637945.5	802089.8	33895.7	2.22	0.0423	338923.9	17093.6	1.12	0.0504	870756.8	37961.9	2.49	0.0436
2	2	3.70	5645064.5	802014.6	21317.5	1.40	0.0266	346733.4	3978.2	0.26	0.0115	873757.1	21685.5	1.42	0.0248
2	1	3.70	5645064.5	802014.6	28055.9	1.84	0.0350	346733.4	6130.0	0.40	0.0177	873757.1	28717.8	1.88	0.0329
3	2	3.70	5636815.0	800786.8	23488.6	1.54	0.0293	-344450.4	7681.4	-0.50	0.0223	871725.6	24712.8	1.62	0.0283
3	1	3.70	5636815.0	800786.8	31875.7	2.09	0.0398	-344450.4	275.4	0.02	0.0008	871725.6	31876.9	2.09	0.0366
4	2	3.70	5643936.0	800711.8	25879.8	1.70	0.0323	-336640.8	10197.7	-0.67	0.0303	868600.2	27816.5	1.82	0.0320
4	1	3.70	5643936.0	800711.8	30047.8	1.97	0.0375	-336640.8	10707.2	-0.70	0.0318	868600.2	31898.5	2.09	0.0367
5	2	3.70	5645999.0	801801.0	26203.0	1.72	0.0327	332851.9	10295.8	0.67	0.0309	868144.7	28153.2	1.84	0.0324
5	1	3.70	5645999.0	801801.0	30690.8	2.01	0.0383	332851.9	11081.2	0.73	0.0333	868144.7	32630.0	2.14	0.0376
6	2	3.70	5653119.5	801725.9	23242.4	1.52	0.0290	340661.3	6824.1	0.45	0.0200	871099.7	24223.5	1.59	0.0278
6	1	3.70	5653119.5	801725.9	31365.8	2.05	0.0391	340661.3	94.3	0.01	0.0003	871099.7	31365.9	2.05	0.0360
7	2	3.70	5644870.0	800498.0	21641.7	1.42	0.0270	-350522.5	4856.3	-0.32	0.0139	873878.2	22179.8	1.45	0.0254
7	1	3.70	5644870.0	800498.0	28668.6	1.88	0.0358	-350522.5	5759.8	-0.38	0.0164	873878.2	29241.4	1.92	0.0335
8	2	3.70	5651989.0	800423.0	27810.8	1.82	0.0347	-342713.0	12976.5	-0.85	0.0379	870706.1	30689.3	2.01	0.0352
8	1	3.70	5651989.0	800423.0	33359.8	2.18	0.0417	-342713.0	16765.7	-1.10	0.0489	870706.1	37335.8	2.44	0.0429
9	2	3.70	5633385.0	242717.0	26110.1	1.71	0.1076	1126283.8	39158.8	2.57	0.0348	1152140.0	47065.4	3.09	0.0409
9	1	3.70	5633385.0	242717.0	23723.1	1.56	0.0977	1126283.8	47338.1	3.11	0.0420	1152140.0	52949.8	3.48	0.0460
10	2	3.70	5635801.5	242630.4	25558.1	1.68	0.1053	1124462.3	38348.7	2.52	0.0341	1150341.2	46085.1	3.03	0.0401
10	1	3.70	5635801.5	242630.4	22759.0	1.49	0.0938	1124462.3	45550.6	2.99	0.0405	1150341.2	50919.9	3.34	0.0443
11	2	3.70	5633050.0	-238036.8	27178.9	-1.79	0.1142	1127420.5	39174.2	2.57	0.0347	1152275.4	47679.3	3.13	0.0414
11	1	3.70	5633050.0	-238036.8	24793.6	-1.63	0.1042	1127420.5	47311.0	3.11	0.0420	1152275.4	53414.0	3.51	0.0464
12	2	3.70	5635464.5	-238123.4	26624.0	-1.75	0.1118	1125598.8	38364.2	2.52	0.0341	1150510.9	46697.4	3.07	0.0406
12	1	3.70	5635464.5	-238123.4	23826.4	-1.56	0.1001	1125598.8	45523.7	2.99	0.0404	1150510.9	51381.9	3.37	0.0447
13	2	3.70	5657116.5	242466.6	10132.0	0.66	0.0418	1152315.6	18646.1	1.22	0.0162	1177548.9	21221.1	1.39	0.0180
13	1	3.70	5657116.5	242466.6	15586.6	1.02	0.0643	1152315.6	10842.1	0.71	0.0094	1177548.9	18986.7	1.24	0.0161

14	2	3.70	5659533.5	242380.0	10705.3	0.70	0.0442	1150494.0	19507.1	1.28	0.0170	1175748.5	22251.5	1.45	0.0189
14	1	3.70	5659533.5	242380.0	16575.3	1.08	0.0684	1150494.0	9031.4	0.59	0.0079	1175748.5	18876.1	1.23	0.0161
15	2	3.70	5656781.0	-238287.3	11111.8	-0.73	0.0466	1153452.5	18661.8	1.22	0.0162	1177808.8	21719.4	1.42	0.0184
15	1	3.70	5656781.0	-238287.3	16610.8	-1.09	0.0697	1153452.5	10817.2	0.71	0.0094	1177808.8	19822.5	1.30	0.0168
16	2	3.70	5659198.0	-238373.9	11682.1	-0.76	0.0490	1151630.8	19522.7	1.28	0.0170	1176042.3	22751.0	1.49	0.0193
16	1	3.70	5659198.0	-238373.9	17596.2	-1.15	0.0738	1151630.8	9006.5	0.59	0.0078	1176042.3	19767.2	1.29	0.0168
17	2	3.70	5636828.0	-800422.9	29068.4	-1.91	0.0363	342712.9	13095.1	0.86	0.0382	870706.0	31881.9	2.09	0.0366
17	1	3.70	5636828.0	-800422.9	34921.9	-2.29	0.0436	342712.9	17009.4	1.12	0.0496	870706.0	38844.0	2.55	0.0446
18	2	3.70	5643947.0	-800498.0	22314.3	-1.46	0.0279	350522.5	4033.2	0.26	0.0115	873878.2	22675.8	1.49	0.0259
18	1	3.70	5643947.0	-800498.0	29164.3	-1.91	0.0364	350522.5	6047.9	0.40	0.0173	873878.2	29784.8	1.95	0.0341
19	2	3.70	5635699.0	-801725.9	24502.7	-1.61	0.0306	-340661.4	7624.1	-0.50	0.0224	871099.6	25661.4	1.68	0.0295
19	1	3.70	5635699.0	-801725.9	32920.3	-2.16	0.0411	-340661.4	194.6	0.01	0.0006	871099.6	32920.9	2.16	0.0378
20	2	3.70	5642817.0	-801801.0	26864.3	-1.76	0.0335	-332851.8	10136.4	-0.66	0.0305	868144.7	28713.0	1.88	0.0331
20	1	3.70	5642817.0	-801801.0	31173.8	-2.04	0.0389	-332851.8	10785.9	-0.71	0.0324	868144.7	32987.0	2.16	0.0380
21	2	3.70	5644881.0	-800711.7	27218.2	-1.78	0.0340	336640.9	10353.1	0.68	0.0308	868600.2	29120.7	1.91	0.0335
21	1	3.70	5644881.0	-800711.7	31706.7	-2.08	0.0396	336640.9	10998.1	0.72	0.0327	868600.2	33560.0	2.20	0.0386
22	2	3.70	5652001.0	-800786.8	24229.0	-1.59	0.0303	344450.4	6878.7	0.45	0.0200	871725.6	25186.5	1.65	0.0289
22	1	3.70	5652001.0	-800786.8	32462.7	-2.13	0.0405	344450.4	13.3	0.00	0.0000	871725.6	32462.7	2.13	0.0372
23	2	3.70	5643751.0	-802014.6	22646.4	-1.48	0.0282	-346733.4	4799.5	-0.31	0.0138	873757.1	23149.4	1.52	0.0265
23	1	3.70	5643751.0	-802014.6	29702.9	-1.95	0.0370	-346733.4	5839.5	-0.38	0.0168	873757.1	30271.5	1.98	0.0346
24	2	3.70	5650871.0	-802089.8	28785.1	-1.88	0.0359	-338923.9	12914.6	-0.85	0.0381	870756.9	31549.5	2.07	0.0362
24	1	3.70	5650871.0	-802089.8	34474.5	-2.26	0.0430	-338923.9	16843.3	-1.10	0.0497	870756.9	38369.1	2.51	0.0441
25	2	3.70	5629618.5	238373.8	10946.6	0.72	0.0459	-1151630.6	20240.8	-1.33	0.0176	1176042.2	23011.3	1.51	0.0196
25	1	3.70	5629618.5	238373.8	17005.1	1.12	0.0713	-1151630.6	8671.1	-0.57	0.0075	1176042.2	19088.2	1.25	0.0162
26	2	3.70	5632035.5	238287.2	10388.4	0.68	0.0436	-1153452.3	19400.6	-1.27	0.0168	1177808.5	22006.9	1.45	0.0187
26	1	3.70	5632035.5	238287.2	16038.8	1.05	0.0673	-1153452.3	10481.4	-0.69	0.0091	1177808.5	19159.9	1.26	0.0163
27	2	3.70	5629282.5	-242380.0	11978.5	-0.79	0.0494	-1150493.9	20222.9	-1.33	0.0176	1175748.4	23504.3	1.54	0.0200
27	1	3.70	5629282.5	-242380.0	18136.0	-1.19	0.0748	-1150493.9	8694.8	-0.57	0.0076	1175748.4	20112.5	1.32	0.0171
28	2	3.70	5631699.5	-242466.6	11417.4	-0.75	0.0471	-1152315.6	19382.8	-1.27	0.0168	1177548.9	22495.5	1.48	0.0191
28	1	3.70	5631699.5	-242466.6	17166.6	-1.13	0.0708	-1152315.6	10504.9	-0.69	0.0091	1177548.9	20125.7	1.32	0.0171
29	2	3.70	5653350.0	238123.4	25372.4	1.66	0.1066	-1125598.9	38332.0	-2.51	0.0341	1150511.0	45968.5	3.01	0.0400
29	1	3.70	5653350.0	238123.4	22245.6	1.46	0.0934	-1125598.9	45378.6	-2.97	0.0403	1150511.0	50537.9	3.31	0.0439
30	2	3.70	5655766.0	238036.8	25951.8	1.70	0.1090	-1127420.5	39178.2	-2.56	0.0348	1152275.4	46993.9	3.07	0.0408
30	1	3.70	5655766.0	238036.8	23236.5	1.52	0.0976	-1127420.5	47212.1	-3.09	0.0419	1152275.4	52620.5	3.44	0.0457
31	2	3.70	5653014.5	-242630.4	26313.3	-1.72	0.1085	-1124462.3	38311.9	-2.51	0.0341	1150341.2	46477.9	3.04	0.0404
31	1	3.70	5653014.5	-242630.4	23329.8	-1.53	0.0962	-1124462.3	45400.2	-2.97	0.0404	1150341.2	51043.6	3.34	0.0444

32	2	3.70	5655431.5	-242717.0	26889.8	-1.76	0.1108	-1126283.9	39158.1	-2.56	0.0348	1152140.1	47501.8	3.11	0.0412
32	1	3.70	5655431.5	-242717.0	24317.4	-1.59	0.1002	-1126283.9	47233.6	-3.09	0.0419	1152140.1	53125.8	3.48	0.0461
2	1	4.50	7123092.0	861437.7	7239.9	0.46	0.0084	332906.7	4252.1	0.27	0.0128	923526.8	8396.2	0.53	0.0091
2	1	4.50	7123947.0	861770.9	6992.0	0.44	0.0081	370078.4	4198.6	0.27	0.0113	937873.7	8155.7	0.52	0.0087
3	1	4.50	7111601.5	860947.6	8700.3	0.55	0.0101	-370489.7	6666.2	-0.42	0.0180	937279.8	10960.5	0.69	0.0117
4	1	4.50	7112455.0	861280.8	8946.3	0.57	0.0104	-333318.0	6720.9	-0.43	0.0202	923528.8	11189.6	0.71	0.0121
5	1	4.50	7134005.0	862428.4	8678.1	0.55	0.0101	308743.1	5935.5	0.37	0.0192	916026.8	10513.8	0.66	0.0115
6	1	4.50	7134859.0	862761.8	8429.9	0.53	0.0098	345914.8	5882.2	0.37	0.0170	929524.0	10279.2	0.65	0.0111
7	1	4.50	7122512.5	861937.9	7290.1	0.46	0.0085	-394653.2	5002.3	-0.32	0.0127	947991.6	8841.3	0.56	0.0093
8	1	4.50	7123365.0	862271.4	7536.4	0.48	0.0087	-357481.6	5056.8	-0.32	0.0141	933437.3	9075.7	0.57	0.0097
9	1	4.50	7240411.0	253043.3	6583.2	0.41	0.0260	1110225.4	17954.0	1.12	0.0162	1138697.2	19122.9	1.19	0.0168
10	1	4.50	7243685.5	253340.5	7020.9	0.44	0.0277	1102976.0	18472.9	1.15	0.0167	1131696.7	19762.1	1.23	0.0175
11	1	4.50	7327059.0	-268891.5	6698.0	-0.41	0.0249	1117522.8	18178.9	1.12	0.0163	1149417.1	19373.6	1.19	0.0169
12	1	4.50	7330331.0	-268594.4	7140.5	-0.44	0.0266	1110273.6	18704.0	1.15	0.0168	1142300.5	20020.6	1.23	0.0175
13	1	4.50	7243258.0	254154.8	5742.4	0.36	0.0226	1234131.0	17778.1	1.10	0.0144	1260029.4	18682.5	1.16	0.0148
14	1	4.50	7246529.5	254452.1	6179.9	0.38	0.0243	1226881.9	18297.2	1.14	0.0149	1252990.4	19312.6	1.20	0.0154
15	1	4.50	7329902.0	-267780.1	5858.8	-0.36	0.0219	1241428.4	18000.9	1.11	0.0145	1269980.6	18930.3	1.16	0.0149
16	1	4.50	7333177.0	-267482.9	6301.1	-0.39	0.0236	1234179.3	18526.0	1.14	0.0150	1262832.3	19568.3	1.20	0.0155
17	1	4.50	7411912.0	-878345.3	7651.9	-0.46	0.0087	357231.3	4458.5	0.27	0.0125	948211.3	8856.1	0.54	0.0093
18	1	4.50	7412767.0	-878011.9	7397.4	-0.45	0.0084	394403.0	4402.8	0.27	0.0112	962527.2	8608.5	0.52	0.0089
19	1	4.50	7400420.0	-878835.6	9088.4	-0.55	0.0103	-346165.1	6903.0	-0.42	0.0199	944554.0	11412.7	0.69	0.0121
20	1	4.50	7401274.0	-878502.2	9347.9	-0.57	0.0106	-308993.4	6959.9	-0.42	0.0225	931258.8	11654.4	0.71	0.0125
21	1	4.50	7422825.0	-877354.6	9146.7	-0.55	0.0104	333067.7	6209.8	0.38	0.0186	938448.3	11055.5	0.67	0.0118
22	1	4.50	7423680.0	-877021.3	8892.0	-0.54	0.0101	370239.3	6154.3	0.37	0.0166	951968.3	10814.0	0.66	0.0114
23	1	4.50	7411332.0	-877845.5	7619.2	-0.46	0.0087	-370328.7	5171.1	-0.31	0.0140	952762.3	9208.3	0.56	0.0097
24	1	4.50	7412186.5	-877511.7	7879.0	-0.48	0.0090	-333157.0	5227.9	-0.32	0.0157	938626.8	9455.7	0.57	0.0101
25	1	4.50	7202102.0	251409.3	6372.8	0.40	0.0253	-1234429.4	18975.4	-1.19	0.0154	1259770.8	20016.9	1.25	0.0159
26	1	4.50	7205376.5	251706.4	5943.7	0.37	0.0236	-1241678.5	18475.9	-1.15	0.0149	1266933.9	19408.4	1.21	0.0153
27	1	4.50	7288748.5	-270525.6	6555.4	-0.40	0.0242	-1227132.1	19193.6	-1.18	0.0156	1256597.5	20282.2	1.25	0.0161
28	1	4.50	7292021.5	-270228.5	6120.7	-0.38	0.0227	-1234381.1	18688.0	-1.15	0.0151	1263613.9	19664.8	1.21	0.0156
29	1	4.50	7204948.5	252520.7	7202.8	0.45	0.0285	-1110523.9	19164.8	-1.20	0.0173	1138872.2	20473.6	1.28	0.0180
30	1	4.50	7208223.0	252817.9	6773.8	0.42	0.0268	-1117773.0	18665.2	-1.17	0.0167	1146007.6	19856.4	1.24	0.0173
31	1	4.50	7291594.0	-269414.2	7406.9	-0.46	0.0275	-1103226.4	19385.3	-1.20	0.0176	1135646.3	20752.1	1.28	0.0183
32	1	4.50	7294868.0	-269117.0	6972.5	-0.43	0.0259	-1110475.5	18879.6	-1.16	0.0170	1142619.7	20125.9	1.24	0.0176
1	0	5.00	9365339.0	-420253.0	27360.3	1.46	0.0651	316342.3	1345.9	0.07	0.0043	526008.6	27393.4	1.46	0.0521
2	0	5.00	9363624.0	-420421.3	27865.2	1.49	0.0663	372349.2	2796.7	0.15	0.0075	561603.0	28005.2	1.50	0.0499

3	5.00	9356352.0	-420887.6	28431.7	1.52	0.0676	-402626.3	4443.7	-0.24	0.0110	582455.5	28776.8	1.54	0.0494
4	5.00	9354636.0	-421055.9	27920.8	1.49	0.0663	-346619.5	2993.2	-0.16	0.0086	545374.3	28080.7	1.50	0.0515
5	5.00	9375940.0	-420271.9	27928.8	1.49	0.0665	338222.7	2582.3	0.14	0.0076	539465.6	28047.9	1.50	0.0520
6	5.00	9374223.0	-420439.8	28434.1	1.52	0.0676	394229.6	4034.5	0.22	0.0102	576356.3	28718.9	1.53	0.0498
7	5.00	9366951.0	-420906.7	27919.3	1.49	0.0663	-380745.9	3215.0	-0.17	0.0084	567564.9	28103.8	1.50	0.0495
8	5.00	9365237.0	-421074.8	27407.9	1.46	0.0651	-324739.1	1763.1	-0.09	0.0054	531751.3	27464.6	1.47	0.0516
9	5.00	9377222.0	-119155.0	10063.5	0.54	0.0845	1100318.3	6857.1	0.37	0.0062	1106751.2	12177.6	0.65	0.0110
10	5.00	9380402.0	-119160.6	10228.2	0.55	0.0858	1106882.4	7230.1	0.39	0.0065	1113278.0	12525.6	0.67	0.0113
11	5.00	9373526.0	138132.3	9367.1	-0.50	0.0678	1102771.8	6858.3	0.37	0.0062	1111389.2	11609.4	0.62	0.0104
12	5.00	9376708.0	138126.7	9533.8	-0.51	0.0690	1109336.0	7231.2	0.39	0.0065	1117902.2	11965.9	0.64	0.0107
13	5.00	9371505.0	-119715.0	11758.5	0.63	0.0982	1287007.9	11693.9	0.62	0.0091	1292563.7	16583.4	0.88	0.0128
14	5.00	9374685.0	-119720.4	11923.7	0.64	0.0996	1293572.0	12068.2	0.64	0.0093	1299100.3	16965.2	0.90	0.0131
15	5.00	9367809.0	137572.5	11049.4	-0.59	0.0803	1289461.1	11693.2	0.62	0.0091	1296779.2	16087.9	0.86	0.0124
16	5.00	9370988.0	137566.9	11216.6	-0.60	0.0815	1296025.3	12067.4	0.64	0.0093	1303305.8	16475.3	0.88	0.0126
17	5.00	9353020.0	437371.0	26789.0	-1.43	0.0613	324520.5	1357.2	0.07	0.0042	544616.3	26823.4	1.43	0.0493
18	5.00	9351304.0	437202.9	27289.6	-1.46	0.0624	380527.3	2806.2	0.15	0.0074	579609.7	27433.5	1.47	0.0473
19	5.00	9344033.0	436736.4	28012.6	-1.50	0.0641	-394448.2	4424.7	-0.24	0.0112	588496.4	28359.9	1.52	0.0482
20	5.00	9342316.0	436568.4	27498.7	-1.47	0.0630	-338441.3	2976.1	-0.16	0.0088	552389.8	27659.3	1.48	0.0501
21	5.00	9363619.0	437352.5	27363.8	-1.46	0.0626	346400.9	2592.0	0.14	0.0075	557916.5	27486.3	1.47	0.0493
22	5.00	9361904.0	437184.0	27864.9	-1.49	0.0637	402407.8	4042.4	0.22	0.0100	594190.1	28156.6	1.50	0.0474
23	5.00	9354632.0	436717.5	27508.2	-1.47	0.0630	-372567.8	3197.6	-0.17	0.0086	574046.1	27693.4	1.48	0.0482
24	5.00	9352917.0	436549.6	26993.8	-1.44	0.0618	-316560.9	1747.6	-0.09	0.0055	539246.1	27050.3	1.45	0.0502
25	5.00	9347266.0	-121270.6	11771.0	0.63	0.0971	-1296243.8	12440.2	-0.67	0.0096	1301904.1	17126.4	0.92	0.0132
26	5.00	9350446.0	-121276.1	11611.9	0.62	0.0957	-1289680.0	12075.0	-0.65	0.0094	1295369.6	16752.4	0.90	0.0129
27	5.00	9343569.0	136016.7	11554.2	-0.62	0.0849	-1293790.4	12431.3	-0.67	0.0096	1300920.5	16971.7	0.91	0.0130
28	5.00	9346749.0	136011.1	11397.4	-0.61	0.0838	-1287226.3	12066.2	-0.65	0.0094	1294391.9	16598.0	0.89	0.0128
29	5.00	9341550.0	-121830.4	10080.5	0.54	0.0827	-1109554.5	7607.1	-0.41	0.0069	1116223.0	12628.7	0.68	0.0113
30	5.00	9344730.0	-121836.0	9920.9	0.53	0.0814	-1102990.3	7240.5	-0.39	0.0066	1109698.8	12282.1	0.66	0.0111
31	5.00	9337852.0	135456.9	9852.1	-0.53	0.0727	-1107101.0	7600.2	-0.41	0.0069	1115357.0	12442.9	0.67	0.0112
32	5.00	9341033.0	135451.4	9694.8	-0.52	0.0716	-1100536.8	7233.7	-0.39	0.0066	1108840.9	12096.1	0.65	0.0109

Massimo direzione $\sqrt{x^2+y^2}$

Solai 4 - 3

Combinazione 24

P 3517453.8

V 618461.3

☐ U 3.43

h 3.70

$Pd/Vh=0.0527$

APE PREFABBRICATI
IL PROGETTISTA DEL C.A.
Dott. Ing. MAURO FERRARI

