

ID	DELTA	Punto Observado	< H	ANGULO			DIST/m	PROYEC
				G	M	S		COS
1	PLACA IGAC 10993							
2	PLACA IGAC 10993	DELTA 1	148,0182244	148	1	5,608	55,160	-46,78733
3	DELTA 1	DELTA 2	102,1340942	102	8	2,739	72,705	-15,282624
4	DELTA 2	DELTA 3	20,67442508	20	40	27,930	64,320	60,177577
5	DELTA 2	DELTA 4	104,4847332	104	29	5,039	46,908	-11,732735
6	DELTA 4	DELTA 5	21,72418973	21	43	27,083	52,149	48,444842
7	DELTA 4	DELTA 6	80,38747915	80	23	14,925	42,805	7,147739
8	DELTA 6	DELTA 7	110,4179263	110	25	4,535	43,813	-15,284959
9	DELTA 6	DELTA 8	23,59280678	23	35	34,104	83,679	76,684546
10	DELTA 6	DELTA 9	-154,5279471	-155	28	19,391	91,972	-83,032043
11	DELTA 7	DELTA 7-1	26,29479174	26	17	41,250	71,767	64,340806
12	DELTA 9	DELTA 10	120,7064421	120	42	23,192	86,718	-44,281614
13	DELTA 10	DELTA 11	-156,66596	-157	20	2,544	63,065	-57,906725
14	DELTA 11	DELTA 11-1	-153,9254792	-154	4	28,275	48,890	-43,913741
15	DELTA 11	DELTA 12	60,10004412	60	6	0,159	105,557	52,618673
16	DELTA 12	DELTA 13	86,94711715	86	56	49,622	56,852	3,027803
17	DELTA 13	DELTA 14	67,98871698	67	59	19,381	19,187	7,191031
18	DELTA 13	DELTA 15	111,8936731	111	53	37,223	87,289	-32,548878
19	DELTA 14	DELTA 16	78,86650346	78	51	59,412	52,969	10,228076
20	DELTA 16	DELTA 17	67,94297527	67	56	34,711	55,407	20,806901
21	DELTA 17	DELTA 18	-57,08328369	-58	55	0,179	93,327	50,715695
22	PLACA	DELTA 19	-2,838791606	-3	9	40,350	91,704	91,59103
23	PLACA	DELTA 20	-104,9158435	-105	5	2,964	89,693	-23,086995
24	PLACA	DELTA 21	-51,37622917	-52	37	25,575	93,982	58,663676
25	DELTA 20	DELTA 22	-80,86982408	-81	7	48,633	42,933	6,812556
26	DELTA 22	DELTA 23	14,40668614	14	24	24,070	42,593	41,253811
27	DELTA 23	DELTA 24	14,16216296	14	9	43,787	41,766	40,49686
28	DELTA 24	DELTA 25	-77,38067417	-78	37	9,573	25,986	5,67713
29	DELTA 25	DELTA 26	-81,15818653	-82	50	30,528	17,236	2,649327
30	DELTA 26	DELTA 27	-169,4899557	-170	30	36,160	85,070	-83,643048
31	DELTA 27	DELTA 28	-80,33359689	-81	39	59,051	69,875	11,732736
32	DELTA 28	DELTA 29	7,90160712	7	54	5,786	107,371	106,351567
33	DELTA 28	DELTA 30	-75,79030868	-76	12	34,889	90,968	22,330044
34	DELTA 29	DELTA 31	6,620763686	6	37	14,749	42,674	42,389237
35	DELTA 29	DELTA 32	-83,65980509	-84	20	24,702	23,991	2,649328
36	DELTA 32	DELTA 33	-83,07491846	-84	55	30,294	94,170	11,35426
37	DELTA 33	DELTA 34	8,630800975	8	37	50,884	42,875	42,389237
38	DELTA 30	DELTA 36	-162,1775074	-163	49	20,973	150,071	-142,868866
39	DELTA 36	DELTA 37	-149,348769	-150	39	4,432	299,298	-257,482363
40	DELTA 37	DELTA 38	-56,99750492	-57	0	8,982	94,379	51,406161
41	DELTA 38	DELTA 39	-66,6883265	-67	18	42,025	83,890	33,197904
42	DELTA 39	DELTA 40	-74,84165749	-75	9	30,033	196,426	51,362972
43	DELTA 40	DELTA 41	17,73926948	17	44	21,370	124,397	118,481952
44	DELTA 40	PLACA IGAC 10983	-7,511571944	-8	29	18,341	88,126	87,369613
45	DELTA 41	DELTA 42	106,5873387	106	35	14,419	37,121	-10,597309
46	DELTA 41	DELTA 43	11,25770716	11	15	27,746	81,425	79,858295
47	DELTA 43	DELTA 44	-43,53120219	-44	28	7,672	52,204	37,847533
48	DELTA 44	DELTA 45	-159,4698013	-160	31	48,715	98,207	-91,969505
49	DELTA 45	DELTA 46	-159,2173379	-160	46	57,584	67,199	-62,826905
50	DELTA 45	DELTA 47	-16,69924648	-17	18	2,713	102,736	98,403586
51	DELTA 47	DELTA 48	21,80141046	21	48	5,078	87,641	81,372196
52	DELTA 48	DELTA 49	118,6639576	118	39	50,247	32,350	-15,517489
53	DELTA 48	DELTA 50	-147,2331956	-148	46	0,496	123,776	-104,080716

54 DELTA 50	DELTA 51	-162,8544558	-163	8	43,959	37,231	-35,576681
55 DELTA 50	DELTA 52	-45,92405057	-46	4	33,418	33,190	23,086995
56 DELTA 52	DELTA 53	-33,53604182	-34	27	50,249	39,049	32,548879
57 DELTA 52	DELTA 54	-154,029989	-155	58	12,040	114,087	-102,566814
58 DELTA 54	DELTA 55	-34,37928536	-35	37	14,573	186,498	153,920108
59 DELTA 55	DELTA 56	-34,58532361	-35	24	52,835	96,635	79,557556
60 DELTA 56	DELTA 57	-34,59486439	-35	24	18,488	288,429	237,430858
61 DELTA 57	DELTA 58	21,82780267	21	49	40,090	112,586	104,514156
62 DELTA 57	DELTA 59	-34,53301764	-35	28	1,136	120,266	99,075325
63 DELTA 58	DELTA 60	31,60749951	31	36	26,998	95,858	81,63853
64 DELTA 60	DELTA 61	24,1696132	24	10	10,608	201,582	183,910975
65 DELTA 61	DELTA 62	-17,67104944	-18	19	44,222	106,396	101,375319
66 DELTA 62	DELTA 63	-61,09764493	-62	54	8,478	98,378	47,547715
67 DELTA 63	DELTA 64	-32,01779371	-33	58	55,943	182,550	154,781186
68 DELTA 64	DELTA 65	30,41266108	30	24	45,580	111,635	96,274117
69 DELTA 65	DELTA 66	-52,15781004	-53	50	31,884	57,991	35,576681
70 DELTA 65	DELTA 67	34,80958885	34	48	34,520	155,805	127,924661
71 DELTA 67	DELTA 68	34,7667581	34	46	0,329	134,071	110,136321
72 DELTA 67	DELTA 69	-51,80131593	-52	11	55,263	146,888	90,834079
73 DELTA 69	DELTA 70	-144,5715989	-145	25	42,244	69,207	-56,392824
74 DELTA 69	DELTA 71	24,02481765	24	1	29,344	141,301	129,060088
75 DELTA 71	DELTA 72	59,30027653	59	18	0,996	70,426	35,955156
76 DELTA 72	DELTA 73	105,7320034	105	43	55,212	83,753	-22,708519
77 DELTA 72	DELTA 74	48,83624992	48	50	10,500	92,001	60,556053
78 DELTA 74	DELTA 75	24,331245	24	19	52,482	47,767	43,524663
79 DELTA 75	DELTA 76	10,94821933	10	56	53,590	117,575	115,434976
80 DELTA 64	DELTA 76-1	-142,0157361	-143	59	3,350	190,454	-150,112104
81 DELTA 76-1	DELTA 77	-5,442766824	-6	33	26,039	451,300	449,265549
82 DELTA 77	DELTA 78	-109,093492	-110	54	23,429	75,692	-24,759585
83 DELTA 77	DELTA 79	15,80770099	15	48	27,724	147,632	142,048338
84 DELTA 79	DELTA 80	-19,28586482	-20	42	50,887	48,187	45,482588
85 DELTA 79	DELTA 81	8,025505534	8	1	31,820	112,611	111,508146
86 DELTA 81	DELTA 82	14,65296282	14	39	10,666	103,316	99,955359
87 DELTA 81	DELTA 83	35,67665239	35	40	35,949	111,827	90,839515
88 DELTA 82	DELTA 84	15,53852681	15	32	18,697	195,121	187,989437
89 DELTA 83	DELTA 85	92,39179926	92	23	30,477	154,174	-6,43408
90 DELTA 83	DELTA 86	18,22248005	18	13	20,928	193,651	183,939011
91 DELTA 85	DELTA 87	13,1340193	13	8	2,469	69,956	68,125559
92 DELTA 86	DELTA 88	101,5048152	101	30	17,335	130,934	-26,114798
93 DELTA 86	DELTA 89	15,43964834	15	26	22,734	123,683	119,219729
94 DELTA 89	DELTA 90	62,58319052	62	34	59,486	113,112	52,083413
95 DELTA 89	DELTA 91	37,51396495	37	30	50,274	53,013	42,0502
96 DELTA 91	DELTA 92	30,99695294	30	59	49,031	93,116	79,818856
97 DELTA 92	DELTA 93	9,912750104	9	54	45,900	158,295	155,931836
98 DELTA 93	DELTA 94	12,73429622	12	44	3,466	68,679	66,990134
99 DELTA 94	DELTA 95	-79,90647908	-80	5	36,675	73,425	12,868161
100 DELTA 94	DELTA 96	8,904820225	8	54	17,353	83,131	82,129146
101 DELTA 96	DELTA 97	-85,58012944	-86	25	11,534	78,578	6,055605
102 DELTA 96	DELTA 98	104,9314167	104	55	53,100	82,257	-21,194618
103 DELTA 96	DELTA 99	1,38591664	1	23	9,300	93,889	93,861882
104 DELTA 98	DELTA 100	135,8231581	135	49	23,369	186,284	-133,601791
105 DELTA 98	DELTA 101	101,1624534	101	9	44,832	115,346	-22,330044
106 DELTA 101	DELTA 102	21,37062125	21	22	14,236	84,129	78,344393
107 DELTA 102	DELTA 103	25,69699864	25	41	49,195	55,862	50,337219

108 DELTA 99	DELTA 104	14,24345957	14	14	36,454	101,525	98,403586
109 DELTA 104	DELTA 105	12,3150233	12	18	54,084	55,009	53,743497

CCION	NORTE	ESTE	COTA
SEN	924453,953	1068479,141	240,529
29,21528	924407,1661	1068508,356	242,624
71,08068	924391,8835	1068579,437	243,510
22,70852	924452,061	1068602,145	242,181
45,41704	924380,1507	1068624,854	243,786
19,30224	924428,5956	1068644,156	243,122
42,20388	924387,2985	1068667,058	245,500
41,06069	924372,0135	1068708,118	244,948
33,49119	924463,983	1068700,549	243,067
-39,55455	924304,2664	1068627,503	250,578
31,79193	924436,3543	1068739,91	243,455
74,55964	924259,9848	1068702,063	254,428
-24,97937	924202,0781	1068677,083	259,090
-21,48891	924158,1644	1068655,594	263,573
91,50684	924210,783	1068747,101	258,459
56,7713	924213,8108	1068803,873	254,978
17,78834	924221,0019	1068821,661	254,429
80,99372	924181,262	1068884,866	255,638
51,97209	924231,2299	1068873,633	251,407
51,35168	924252,0368	1068924,985	246,723
-78,3444	924302,7525	1068846,64	247,054
-4,54171	924545,5445	1068474,599	235,675
-86,67085	924430,8664	1068392,47	241,451
-73,42422	924512,6171	1068405,716	238,301
-42,38924	924437,679	1068350,081	240,984
10,59731	924478,9328	1068360,678	241,049
10,21883	924519,4297	1068370,897	238,535
-25,35784	924525,1068	1068345,539	238,710
-17,03139	924527,7561	1068328,508	238,943
-15,51749	924444,1131	1068312,99	240,459
-68,88251	924455,8458	1068244,108	239,818
14,76054	924562,1974	1068258,868	238,785
-88,18475	924478,1758	1068155,923	240,926
4,92017	924604,5866	1068263,788	236,259
-23,84394	924564,8467	1068239,944	236,493
-93,48341	924576,201	1068165,385	236,493
6,43408	924618,5902	1068171,819	235,675
-45,93205	924335,307	1068109,991	261,538
-152,58556	924077,8246	1067957,405	252,550
-79,151	924129,2308	1067878,254	252,650
-77,04146	924162,4287	1067801,213	261,395
-189,59184	924213,7917	1067611,621	257,974
37,90191	924332,2736	1067649,523	258,902
-11,52038	924301,1613	1067600,1	259,666
35,57668	924321,6763	1067685,099	259,118
15,89597	924412,1319	1067665,419	257,497
-35,95516	924449,9794	1067629,464	255,576
-34,44125	924358,0099	1067595,022	257,796
-23,84395	924295,183	1067571,178	257,348
-29,52108	924393,5866	1067541,657	256,861
32,54888	924474,9588	1067574,206	255,533
28,38565	924459,4413	1067602,592	256,313
-66,99013	924370,8781	1067507,216	256,536

-10,97578	924335,3014	1067496,24	256,690
-23,84395	924393,9651	1067483,372	256,482
-21,57309	924426,514	1067461,799	256,049
-49,95874	924291,3983	1067433,413	256,914
-105,30958	924445,3184	1067328,104	256,807
-54,85301	924524,8759	1067273,251	255,942
-163,76117	924762,3068	1067109,49	250,092
41,86152	924866,8209	1067151,351	248,487
-68,17668	924861,3821	1067041,313	248,322
50,23909	924948,4595	1067201,59	228,021
82,53566	925132,3705	1067284,126	219,854
-32,29656	925233,7458	1067251,829	219,523
-86,12417	925281,2935	1067165,705	219,398
-96,78487	925436,0747	1067068,92	219,098
56,51229	925532,3488	1067125,433	216,451
-45,79551	925567,9255	1067079,637	213,003
88,94171	925660,2735	1067214,374	216,677
76,45201	925770,4098	1067290,826	216,112
-115,43498	925751,1075	1067098,939	212,139
-40,11838	925694,7147	1067058,821	212,673
57,52825	925880,1676	1067156,468	208,319
60,55605	925916,1228	1067217,024	209,453
80,61525	925893,4143	1067297,639	210,217
69,26099	925976,6788	1067286,285	209,538
19,68072	926020,2035	1067305,965	209,330
22,33004	926135,6385	1067328,295	205,516
-117,21405	925285,9626	1066951,706	206,873
-42,80646	925735,2281	1066908,9	230,618
-71,52769	925710,4685	1066837,372	232,493
40,21625	925877,2765	1066949,116	229,403
-15,91518	925922,759	1066933,201	229,345
15,72207	925988,7846	1066964,838	228,959
26,13511	926088,74	1066990,973	227,685
65,2187	926079,6241	1067030,057	223,804
52,27024	926276,7294	1067043,243	223,348
154,03946	926073,19	1067184,096	210,563
60,55605	926263,5631	1067090,613	222,125
15,89596	926141,3156	1067199,992	209,108
128,30314	926237,4483	1067218,916	204,623
32,92736	926382,7829	1067123,54	220,298
100,40698	926434,8663	1067223,947	200,739
32,28254	926424,8331	1067155,823	220,242
47,95423	926504,6519	1067203,777	204,005
27,25022	926660,5838	1067231,027	204,737
15,13902	926727,5739	1067246,166	205,383
-72,28879	926740,442	1067173,877	206,958
12,86816	926809,703	1067259,034	204,991
-78,3444	926815,7586	1067180,69	207,892
79,47982	926788,5084	1067338,514	205,879
2,27085	926903,5649	1067261,305	204,785
129,81704	926769,9631	1067391,122	211,031
113,16412	926881,2349	1067374,469	204,002
30,6565	926959,5793	1067405,126	203,551
24,22242	927009,9165	1067429,348	201,293

24,97937	927001,9685	1067286,285	204,318
11,73274	927055,712	1067298,017	200,817