

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E1	E	1,520	8.146.113,6750	666.420,5900	897,444	232°16'30"

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Ré	E0		359°59'59"	87°02'41"	2,000	17,0700	17,0500		
Irradiado	1	CAL	353°06'08"	87°53'25"	2,600	46,4900	46,4500		
Irradiado	2	CAL	353°07'24"	87°37'28"	2,600	46,4700	46,4300		
Irradiado	3	CAL	357°33'01"	88°24'37"	2,000	45,9000	45,8900		
Irradiado	4	CAL	357°34'06"	88°58'09"	2,000	45,9400	45,9300		
Irradiado	5	CAL	356°49'53"	88°50'10"	2,000	41,3800	41,3700		
Irradiado	6	CAL	356°46'57"	88°12'58"	2,000	41,4600	41,4400		
Irradiado	7	CAL	355°57'34"	89°01'00"	2,000	37,2900	37,2900		
Irradiado	8	CAL	355°49'35"	88°56'32"	2,000	37,3500	37,3400		
Irradiado	9	CAL	354°32'33"	88°48'23"	2,000	31,9500	31,9500		
Irradiado	10	CAL	352°57'33"	88°36'00"	2,000	27,4100	27,4000		
Irradiado	11	CAL	351°07'06"	88°17'58"	2,000	23,6500	23,6400		
Irradiado	12	CAL	348°36'16"	87°20'57"	2,000	19,8200	19,8000		
Irradiado	13	CAL	348°25'49"	86°04'33"	2,000	19,8200	19,7800		
Irradiado	14	CAL	344°48'48"	86°41'40"	2,000	15,9600	15,9400		
Irradiado	15	CAL	344°35'11"	85°18'08"	2,000	15,9900	15,9300		
Irradiado	16	CAL	337°25'49"	85°56'29"	2,000	11,8100	11,7800		
Irradiado	17	CAL	337°17'20"	83°34'57"	2,000	11,8600	11,7800		
Irradiado	18	CAL	326°58'08"	84°42'35"	2,000	8,8200	8,7800		
Irradiado	19	CAL	326°54'03"	81°28'26"	2,000	8,9200	8,8200		
Irradiado	20	CAL	326°54'03"	81°30'15"	2,000	8,9200	8,8200		
Irradiado	21	CAL	319°17'09"	84°27'52"	2,000	9,9400	9,8900		
Irradiado	22	CAL	319°34'25"	82°18'16"	2,000	9,9900	9,9000		
Irradiado	23	CAL	310°41'32"	85°28'52"	2,000	11,8700	11,8400		
Irradiado	24	CAL	310°55'44"	84°32'55"	2,000	11,9300	11,8700		
Irradiado	25	CAL	300°01'09"	86°19'19"	2,000	16,1400	16,1100		
Irradiado	26	CAL	300°11'25"	85°51'27"	2,000	16,1800	16,1400		
Irradiado	27	CAL	296°01'25"	86°46'03"	2,000	18,9400	18,9100		
Irradiado	28	CAL	296°06'10"	86°21'54"	2,000	18,9700	18,9300		
Irradiado	29	CAL	290°45'40"	87°33'14"	2,000	24,6700	24,6400		
Irradiado	30	CAL	290°50'29"	87°13'47"	2,000	24,6700	24,6500		
Irradiado	31	CAL	288°57'50"	87°45'19"	2,000	27,4800	27,4600		
Irradiado	32	CAL	288°59'20"	86°53'31"	2,000	27,5500	27,5100		
Irradiado	33	CAL	291°00'18"	87°27'07"	2,000	27,7900	27,7600		
Irradiado	34	CAL	290°57'29"	86°56'15"	2,000	27,8100	27,7700		
Irradiado	35	CAL	284°17'16"	87°43'51"	2,000	26,9800	26,9600		
Irradiado	36	CAL	284°16'01"	86°50'02"	2,000	27,0300	26,9900		
Irradiado	37	CAL	288°18'14"	87°49'34"	2,000	32,9600	32,9400		
Irradiado	38	CAL	288°15'55"	87°23'50"	2,000	32,6600	32,6300		
Irradiado	39	CAL	280°03'17"	87°36'41"	2,000	26,6800	26,6600		
Irradiado	40	EDF	280°06'48"	86°49'03"	2,000	26,7000	26,6600		
Irradiado	41	ACES	289°22'19"	87°41'35"	2,000	30,6800	30,6500		
Irradiado	42	ACES	289°19'28"	87°12'21"	2,000	30,7000	30,6600		
Irradiado	43	ACES	289°57'29"	87°37'16"	2,000	29,7600	29,7400		
Irradiado	44	ACES	289°57'29"	87°07'14"	2,000	29,7400	29,7000		
Irradiado	45	ACES	287°17'44"	87°13'13"	2,000	30,4200	30,3900		
Irradiado	46	ACES	287°44'57"	87°05'27"	2,000	29,4700	29,4300		
Irradiado	47	SOL	280°08'41"	86°54'56"	2,000	27,7000	27,6600		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E1	E	1,520	8.146.113,6750	666.420,5900	897,444	232°16'30"

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Irradiado	48	SOL	280°08'10"	87°07'52"	2,000	29,7600	29,7200		
Irradiado	49	SOL	286°31'21"	87°16'41"	2,000	31,6800	31,6500		
Irradiado	50	SOL	288°57'10"	87°50'15"	2,000	33,0800	33,0600		
Irradiado	51	SOL	291°31'04"	87°19'10"	2,000	29,1900	29,1600		
Irradiado	52	POT	291°18'53"	87°21'24"	2,000	29,5000	29,4700		
Irradiado	53	POT	291°37'02"	87°16'45"	2,000	28,7700	28,7400		
Irradiado	54	POT	286°27'18"	87°13'35"	2,000	31,1500	31,1200		
Irradiado	55	POT	289°30'54"	87°49'57"	2,000	33,1600	33,1400		
Irradiado	56	POT	288°19'07"	87°49'54"	2,000	32,9600	32,9400		
Irradiado	57	POT	280°08'41"	86°50'22"	2,000	27,0900	27,0500		
Irradiado	58	CAL	273°30'50"	88°13'04"	2,000	40,1400	40,1200		
Irradiado	59	CAL	273°31'55"	87°58'12"	2,000	40,1300	40,1100		
Irradiado	60	CAL	272°04'02"	88°07'51"	2,000	41,7500	41,7300		
Irradiado	61	MR	272°02'44"	88°07'51"	2,000	41,7500	41,7300		
Irradiado	62	EDF	274°27'53"	87°54'56"	2,000	39,4300	39,4000		
Irradiado	63	PT AG	272°14'42"	88°07'10"	2,000	40,5700	40,5400		
Irradiado	64	CAL	273°07'55"	88°05'52"	2,000	29,4600	29,4400		
Irradiado	65	CAL	273°12'20"	87°42'46"	2,000	29,4900	29,4700		
Irradiado	66	EDF	274°41'03"	87°51'49"	2,000	26,5400	26,5200		
Irradiado	67	EDF	286°25'44"	87°12'48"	2,000	30,8700	30,8300		
Irradiado	68	EDF	289°31'36"	87°51'11"	2,000	33,1700	33,1500		
Irradiado	69	EDF	290°31'37"	87°42'48"	2,000	31,4700	31,4500		
Irradiado	70	EDF	291°05'28"	87°34'47"	2,000	29,7100	29,6800		
Irradiado	71	PIA	291°46'00"	87°21'16"	2,000	26,7900	26,7600		
Irradiado	72	PIA	292°32'37"	87°13'42"	2,000	25,6600	25,6300		
Irradiado	73	PIA	292°49'52"	87°20'15"	2,000	26,9500	26,9200		
Irradiado	74	ESC	306°52'17"	85°52'04"	2,000	15,9500	15,9100		
Irradiado	75	ESC	306°59'35"	85°06'00"	2,000	16,0200	15,9600		
Irradiado	76	ESC	304°25'15"	85°45'14"	2,000	15,5500	15,5000		
Irradiado	77	ESC	304°21'52"	84°59'09"	2,000	15,5900	15,5300		
Irradiado	78	ESC	303°56'39"	85°03'19"	2,000	15,8100	15,7500		
Irradiado	79	ESC	306°23'32"	85°10'14"	2,000	16,2200	16,1600		
Irradiado	80	ESC	306°21'39"	84°28'36"	2,000	16,2700	16,2000		
Irradiado	81	ESC	303°54'31"	84°20'37"	2,000	15,8700	15,7900		
Irradiado	82	ESC	303°24'59"	84°24'00"	2,000	16,0800	16,0000		
Irradiado	83	ESC	305°51'25"	84°31'38"	2,000	16,4700	16,4000		
Irradiado	84	ESC	305°44'20"	83°51'58"	2,000	16,5100	16,4200		
Irradiado	85	ESC	303°18'41"	83°42'50"	2,000	16,1500	16,0600		
Irradiado	86	ESC	302°52'00"	83°48'41"	2,000	16,3400	16,2500		
Irradiado	87	ESC	305°14'35"	83°56'37"	2,000	16,7400	16,6500		
Irradiado	88	POT	305°18'22"	83°24'02"	2,000	16,8700	16,7600		
Irradiado	89	POT	303°56'32"	83°37'22"	2,000	17,5200	17,4100		
Irradiado	90	ESC	302°49'37"	83°16'09"	2,000	16,4100	16,2900		
Irradiado	91	ESC	302°32'17"	86°13'03"	2,000	18,2300	18,1900		
Irradiado	92	ESC	300°12'28"	86°09'48"	2,000	17,8500	17,8100		
Irradiado	93	ESC	300°17'43"	85°30'18"	2,000	17,8400	17,7800		
Irradiado	94	ESC	302°33'48"	85°35'45"	2,000	18,2200	18,1600		
Irradiado	95	ESC	302°57'25"	85°31'39"	2,000	17,9900	17,9400		

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E1	E	1,520	8.146.113,6750	666.420,5900	897,444	232°16'30"

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Irradiado	96	ESC	300°37'48"	85°25'49"	2,000	17,6100	17,5600		
Irradiado	97	ESC	300°38'50"	84°51'34"	2,000	17,6000	17,5300		
Irradiado	98	ESC	302°58'17"	84°57'06"	2,000	17,9600	17,8900		
Irradiado	99	ESC	300°57'49"	84°48'00"	2,000	17,3800	17,3000		
Irradiado	100	ESC	303°14'36"	84°54'09"	2,000	17,8100	17,7400		
Irradiado	101	ESC	301°03'06"	84°15'48"	2,000	17,3700	17,2800		
Irradiado	102	ESC	303°14'17"	84°21'24"	2,000	17,7800	17,6900		
Irradiado	103	ESC	301°25'28"	84°07'59"	2,000	17,1400	17,0500		
Irradiado	104	ESC	303°40'01"	84°15'01"	2,000	17,5400	17,4500		
Irradiado	105	ESC	301°32'46"	83°31'40"	2,000	17,1300	17,0200		
Irradiado	106	ESC	303°40'22"	83°40'07"	2,000	17,5500	17,4400		
Irradiado	107	CXQ	289°21'39"	87°17'57"	2,000	20,1400	20,1200		
Irradiado	108	CXQ	290°42'55"	87°10'38"	2,000	21,1600	21,1400		
Irradiado	109	CXQ	287°18'27"	87°34'59"	2,000	21,2100	21,1900		
Irradiado	110	CXQ	289°25'01"	87°29'00"	2,000	24,6000	24,5800		
Irradiado	111	CXQ	286°12'36"	87°33'18"	2,000	24,7600	24,7400		
Irradiado	112	CXQ	287°35'25"	87°40'30"	2,000	25,7400	25,7200		
Irradiado	113	TED	272°05'24"	87°34'23"	2,000	20,0800	20,0600		
Irradiado	114	TED	293°22'49"	86°52'23"	2,000	21,7000	21,6700		
Irradiado	115	TED	282°34'45"	87°09'21"	2,000	20,4200	20,4000		
Irradiado	116	TED	298°01'49"	86°12'00"	2,000	17,9400	17,9000		
Irradiado	117	TED	271°10'46"	87°33'00"	2,000	15,9400	15,9300		
Irradiado	118	TED	304°45'42"	85°30'24"	2,000	14,4600	14,4200		
Irradiado	119	TED	271°39'07"	86°44'03"	2,000	12,0100	11,9900		
Irradiado	120	TED	290°15'20"	86°30'18"	2,000	12,5500	12,5300		
Irradiado	121	PROJT	273°17'34"	87°53'18"	2,000	26,4700	26,4500		
Irradiado	122	PROJT	273°29'23"	88°14'30"	2,000	39,7100	39,6900		
Irradiado	123	PROJT	281°19'56"	87°40'36"	2,000	26,3600	26,3400		
Irradiado	124	PROJT	280°54'46"	87°08'43"	2,000	29,9800	29,9400		
Irradiado	125	PROJT	288°21'41"	87°12'29"	2,000	30,7500	30,7100		
Irradiado	126	PROJT	289°23'09"	87°04'45"	2,000	29,2900	29,2500		
Irradiado	127	PROJTG	288°15'51"	87°15'57"	2,000	31,4500	31,4100		
Irradiado	128	PROJTG	327°38'13"	81°58'18"	2,000	9,5000	9,4000		
Irradiado	129	PROJTG	356°59'27"	88°23'15"	2,000	45,2300	45,2200		
Irradiado	130	PROJTG	282°12'49"	87°36'01"	2,000	25,3900	25,3700		
Irradiado	131	PROJTG	283°58'46"	87°42'43"	2,000	26,4900	26,4700		
Irradiado	132	PROJTG	280°27'48"	87°34'45"	2,000	26,1000	26,0700		
Irradiado	133	CXR	292°38'07"	87°15'39"	2,000	25,3900	25,3600		
Irradiado	134	CXR	294°31'18"	87°10'45"	2,000	24,7600	24,7300		
Irradiado	135	CXR	295°09'17"	86°48'47"	2,000	21,6900	21,6500		
Irradiado	136	CXR	297°48'42"	86°44'13"	2,000	21,2800	21,2500		
Irradiado	137	CXR	311°00'36"	85°00'03"	2,000	13,0200	12,9700		
Irradiado	138	CXQ	315°59'28"	85°04'16"	2,000	12,9000	12,8500		
Irradiado	139	CXQ	323°05'29"	82°40'41"	2,000	10,3600	10,2700		
Irradiado	140	CXQ	329°18'45"	82°57'12"	2,000	10,4700	10,3900		
Irradiado	141	MR	270°13'43"	86°53'54"	2,000	11,6600	11,6400		
Irradiado	142	EDF	325°13'51"	83°01'09"	2,000	11,1900	11,1000		
Irradiado	143	EDF	328°45'37"	82°45'04"	2,000	10,6600	10,5800		

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E1	E	1,520	8.146.113,6750	666.420,5900	897,444	232°16'30"

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Irradiado	144	EDF	330°48'01"	83°02'29"	2,000	11,1700	11,0900		
Irradiado	145	EDF	330°10'25"	83°04'35"	2,000	11,2600	11,1800		
Irradiado	146	EDF	328°24'28"	83°27'45"	2,000	11,9500	11,8700		
Irradiado	147	POT	326°20'47"	83°09'55"	2,000	11,4100	11,3200		
Irradiado	148	SOL	327°22'53"	83°19'24"	2,000	11,6900	11,6100		
Irradiado	149	EDF	337°54'17"	84°34'05"	2,000	14,1900	14,1200		
Irradiado	150	EDF	341°12'16"	85°11'33"	2,000	15,7700	15,7100		
Irradiado	151	EDF	342°04'20"	85°22'29"	2,000	16,3400	16,2800		
Irradiado	152	POT	339°09'03"	85°21'42"	2,000	16,4500	16,4000		
Irradiado	153	POT	338°03'21"	85°08'52"	2,000	15,8300	15,7700		
Irradiado	154	SOL	338°30'57"	85°14'26"	2,000	16,1100	16,0500		
Irradiado	155	EDF	339°32'38"	85°23'40"	2,000	16,7000	16,6400		
Irradiado	156	ARQ	343°59'44"	86°07'37"	2,000	20,2200	20,1700		
Irradiado	157	ARQ	354°33'19"	88°10'29"	2,000	41,7000	41,6800		
Irradiado	158	CXQ	351°48'29"	88°14'48"	2,000	23,4900	23,4800		
Irradiado	159	CXQ	0°59'36"	89°04'10"	2,000	29,2600	29,2500		
Irradiado	160	CXQ	359°59'41"	88°41'55"	2,000	22,9800	22,9700		
Irradiado	161	CXQ	354°25'01"	88°43'55"	2,000	29,6900	29,6900		
Irradiado	162	CXQ	0°26'23"	89°02'41"	2,000	25,4100	25,4100		
Irradiado	163	CXQ	0°40'42"	88°50'28"	2,000	27,0100	27,0000		
Irradiado	164	PN	273°59'12"	87°51'09"	2,000	35,9700	35,9400		
Irradiado	165	PN	272°25'59"	88°00'47"	2,000	32,0000	31,9900		
Irradiado	166	PN	273°00'28"	88°00'44"	2,000	28,2500	28,2300		
Irradiado	167	PN	273°00'58"	87°50'23"	2,000	24,6400	24,6200		
Irradiado	168	PN	273°57'10"	87°47'05"	2,000	21,1200	21,1100		
Irradiado	169	PN	272°30'16"	87°38'38"	2,000	17,6800	17,6700		
Irradiado	170	PN	274°17'20"	87°17'52"	2,000	13,8500	13,8400		
Irradiado	171	PN	288°53'47"	87°03'05"	2,000	14,5400	14,5300		
Irradiado	172	PN	286°08'00"	87°29'40"	2,000	18,3700	18,3500		
Irradiado	173	PN	283°46'32"	87°42'37"	2,000	22,2500	22,2400		
Irradiado	174	PN	283°53'44"	87°40'05"	2,000	26,0800	26,0600		
Irradiado	175	PN	284°36'59"	87°00'11"	2,000	28,5400	28,5000		
Irradiado	176	PN	288°18'31"	87°44'57"	2,000	26,6300	26,6100		
Irradiado	177	PN	294°19'53"	87°00'49"	2,000	23,0500	23,0200		
Irradiado	178	PN	292°18'28"	86°53'44"	2,000	19,3200	19,2900		
Irradiado	179	PN	298°31'41"	86°24'21"	2,000	19,3500	19,3100		
Irradiado	180	PN	294°18'33"	86°40'37"	2,000	17,0800	17,0500		
Irradiado	181	PN	308°31'52"	85°31'49"	2,000	14,0900	14,0400		
Irradiado	182	PN	297°18'25"	86°22'15"	2,000	14,9800	14,9500		
Irradiado	183	PN	319°08'23"	83°46'03"	2,000	11,4500	11,3800		
Irradiado	184	PN	335°29'59"	83°51'00"	2,000	12,4900	12,4200		
Irradiado	185	CXQ	339°18'04"	84°39'17"	2,000	14,2000	14,1400		
Irradiado	186	CXQ	337°47'57"	85°02'46"	2,000	15,2500	15,1900		
Irradiado	187	CXQ	344°11'54"	85°47'12"	2,000	18,1800	18,1300		
Irradiado	188	PN	347°51'13"	87°18'43"	2,000	21,9500	21,9200		
Irradiado	189	PN	349°52'04"	88°28'13"	2,000	25,8500	25,8500		
Irradiado	190	PN	352°02'18"	88°41'03"	2,000	29,7300	29,7300		
Irradiado	191	PN	353°41'33"	88°50'16"	2,000	33,6400	33,6400		

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E1	E	1,520	8.146.113,6750	666.420,5900	897,444	232°16'30"

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Irradiado	192	PN	354°43'27"	88°56'42"	2,000	37,4400	37,4400		
Irradiado	193	PN	355°35'52"	88°14'13"	2,000	41,5300	41,5100		
Irradiado	194	PN	356°22'45"	88°23'17"	2,000	46,0100	45,9900		
Auxiliar	E2	A	0°00'06"	87°03'53"	2,000	17,0800	17,0600		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E2	E	1,530				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Ré	E1		359°59'57"	89°34'58"	2,000	17,0500	17,0500		
Irradiado	200	BEB	79°45'22"	80°35'09"	2,000	5,9500	5,8700		
Irradiado	201	BEB	80°53'28"	82°46'25"	2,000	8,1100	8,0500		
Irradiado	202	BEB	75°49'11"	80°47'58"	2,000	6,0800	6,0000		
Irradiado	203	CXQ	93°59'28"	82°40'17"	2,000	7,8500	7,7900		
Irradiado	204	CXQ	89°34'00"	83°13'20"	2,000	8,5200	8,4600		
Irradiado	205	ARQ	107°57'41"	81°18'46"	2,000	8,0900	8,0000		
Irradiado	206	COL	105°16'22"	82°47'02"	2,000	8,0000	7,9300		
Irradiado	207	COL	108°17'53"	82°54'06"	2,000	8,1000	8,0400		
Irradiado	208	ESC	106°56'43"	82°09'48"	2,000	7,2900	7,2300		
Irradiado	209	ESC	109°16'25"	82°12'56"	2,000	7,3700	7,3000		
Irradiado	210	ESC	106°51'23"	80°31'51"	2,000	7,3400	7,2400		
Irradiado	211	COL	109°13'19"	80°36'40"	2,000	7,4300	7,3300		
Irradiado	212	COL	105°19'41"	81°16'52"	2,000	8,0200	7,9300		
Irradiado	213	COL	105°25'58"	82°47'09"	2,000	7,9900	7,9300		
Irradiado	214	COL	144°40'04"	83°37'29"	2,000	12,3000	12,2200		
Irradiado	215	COL	143°23'14"	83°26'49"	2,000	12,0000	11,9200		
Irradiado	216	COL	141°43'19"	85°17'21"	2,000	12,2500	12,2100		
Irradiado	217	COL	158°51'51"	85°44'51"	2,000	18,3200	18,2700		
Irradiado	218	COL	166°09'50"	87°11'23"	2,000	25,2900	25,2600		
Irradiado	219	COL	94°43'13"	80°35'27"	2,000	6,0300	5,9500		
Irradiado	220	CXQ	91°50'36"	86°33'04"	2,000	17,0100	16,9800		
Irradiado	221	CXQ	94°06'28"	86°25'53"	2,000	16,3600	16,3300		
Irradiado	222	CXQ	92°38'28"	87°43'30"	2,000	25,7300	25,7100		
Irradiado	223	CXQ	94°05'24"	87°42'09"	2,000	25,0800	25,0600		
Irradiado	224	GRD	94°07'28"	87°38'17"	2,000	24,8800	24,8600		
Irradiado	225	GRD	94°21'57"	83°17'02"	2,000	8,5900	8,5400		
Auxiliar	E3	A	182°06'41"	89°32'15"	2,000	25,2700	25,2700		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E3	E	1,550				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Ré	E2		359°59'58"	88°12'46"	2,000	25,2800	25,2700		
Irradiado	229	ESC	81°10'13"	78°35'36"	2,000	6,3700	6,2400		
Irradiado	230	ESC	85°00'57"	79°25'03"	2,000	7,0400	6,9200		
Irradiado	231	ESC	84°00'04"	78°27'22"	2,000	6,3200	6,2000		
Irradiado	232	ESC	84°48'11"	77°45'51"	2,000	7,0900	6,9300		
Irradiado	233	ESC	81°10'10"	76°36'43"	2,000	6,4400	6,2700		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E3	E	1,550				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Irradiado	234	ESC	83°50'08"	76°32'45"	2,000	6,3900	6,2100		
Irradiado	235	LIX	87°01'43"	80°08'19"	2,000	7,5200	7,4100		
Irradiado	236	LIX	103°17'45"	80°23'30"	2,000	7,6700	7,5600		
Irradiado	237	GRD	103°10'46"	80°46'09"	2,000	7,9200	7,8200		
Irradiado	238	GRD	109°34'47"	81°03'39"	2,000	8,1100	8,0100		
Irradiado	239	GRD	115°27'22"	81°30'13"	2,000	8,3900	8,3000		
Irradiado	240	CXQ	100°38'25"	83°16'24"	2,600	15,7800	15,6800		
Irradiado	241	CXQ	98°01'10"	83°25'37"	2,600	16,3500	16,2500		
Irradiado	242	CXQ	95°53'15"	85°46'09"	2,600	25,0700	25,0000		
Irradiado	243	CXQ	97°32'16"	83°22'42"	3,600	24,5600	24,4000		
Irradiado	244	GRD	90°27'02"	83°08'50"	3,600	24,1400	23,9600		
Auxiliar	E4	A	175°29'38"	89°39'30"	2,000	39,1100	39,1100		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E4	E	1,500				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Ré	E3		359°59'59"	88°54'06"	2,000	39,1200	39,1100		
Irradiado	300	EDF	262°31'45"	90°11'03"	2,000	40,6000	40,6000		
Irradiado	301	EDF	269°39'36"	90°08'25"	2,000	39,7300	39,7300		
Irradiado	302	EDF	271°49'29"	90°13'00"	2,000	57,9600	57,9600		
Irradiado	303	CAL	261°28'49"	90°21'58"	2,000	40,1600	40,1600		
Irradiado	304	CAL	270°24'28"	90°16'50"	2,000	39,0800	39,0800		
Irradiado	305	CAL	271°27'07"	90°12'28"	2,000	46,9800	46,9800		
Irradiado	306	CAL	270°46'15"	90°07'36"	2,000	47,0000	47,0000		
Irradiado	307	CAL	272°49'33"	90°16'29"	2,000	58,4900	58,4900		
Irradiado	308	CXQ	271°34'05"	90°03'12"	2,000	52,9000	52,9000		
Irradiado	309	CXQ	272°10'57"	90°01'30"	2,000	52,2400	52,2400		
Irradiado	310	CXQ	271°43'01"	89°57'07"	2,000	49,2100	49,2100		
Irradiado	311	CXQ	272°27'58"	89°57'07"	2,000	48,4100	48,4100		
Irradiado	312	CXQ	270°41'43"	90°08'33"	2,000	45,1000	45,1000		
Irradiado	313	CXQ	271°23'26"	90°12'30"	2,000	44,4200	44,4200		
Irradiado	314	CAL	68°42'25"	86°30'43"	2,600	29,2500	29,1900		
Irradiado	315	EDF	66°56'30"	86°20'42"	2,600	29,5400	29,4800		
Irradiado	316	EDF	67°10'01"	86°21'00"	2,600	29,5100	29,4500		
Irradiado	317	CAL	32°25'08"	83°03'52"	2,600	15,2600	15,1500		
Irradiado	318	EDF	60°10'58"	85°35'12"	2,600	24,4700	24,4000		
Irradiado	319	EDF	59°56'18"	85°35'30"	2,600	24,5000	24,4300		
Irradiado	320	EDF	49°49'09"	84°34'13"	2,600	19,9800	19,8900		
Irradiado	321	EDF	49°28'42"	84°35'03"	2,600	20,0300	19,9400		
Irradiado	322	EDF	34°18'22"	83°21'04"	2,600	16,4700	16,3600		
Irradiado	323	EDF	35°10'19"	83°25'36"	2,600	16,6300	16,5200		
Irradiado	324	CAL	23°01'47"	85°31'05"	2,600	23,2200	23,1500		
Irradiado	325	CAL	18°34'27"	86°42'02"	2,600	31,3900	31,3400		
Irradiado	326	EDF	20°41'06"	86°29'59"	2,600	30,8500	30,7900		
Irradiado	327	PN	65°41'38"	86°08'19"	2,600	25,8200	25,7600		
Irradiado	328	PN	64°07'52"	85°58'59"	2,600	26,4000	26,3400		
Irradiado	329	PN	61°23'24"	85°38'16"	2,600	23,1900	23,1200		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E4	E	1,500				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Irradiado	330	PN	58°03'25"	85°16'21"	2,600	22,8100	22,7300		
Irradiado	331	PN	55°34'14"	84°55'08"	2,600	20,2300	20,1500		
Irradiado	332	PN	53°32'37"	84°49'56"	2,600	20,8300	20,7400		
Irradiado	333	PN	48°41'19"	84°12'22"	2,600	17,7900	17,7000		
Irradiado	334	PN	47°11'29"	84°10'06"	2,600	18,6700	18,5800		
Irradiado	335	PN	39°21'37"	83°24'15"	2,600	15,6300	15,5300		
Irradiado	336	PN	37°34'43"	83°24'43"	2,600	16,5900	16,4800		
Irradiado	337	PN	27°06'52"	84°07'02"	2,600	17,5600	17,4600		
Irradiado	338	PN	29°45'09"	83°58'02"	2,600	18,1100	18,0100		
Irradiado	339	PN	26°43'28"	84°41'56"	2,600	20,5300	20,4400		
Irradiado	340	PN	24°15'22"	84°53'54"	2,600	20,1800	20,1000		
Irradiado	341	PN	23°49'18"	85°27'10"	2,600	23,5400	23,4600		
Irradiado	342	PN	21°31'42"	86°00'30"	2,600	27,2000	27,1300		
Irradiado	343	PN	19°39'50"	86°10'18"	2,600	26,8700	26,8100		
Irradiado	344	PN	20°02'27"	86°30'44"	2,600	30,9400	30,8900		
Irradiado	345	PN	17°55'42"	86°41'12"	2,600	30,6700	30,6200		
Auxiliar	E5	A	78°29'34"	88°39'54"	2,000	56,9600	56,9400		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E5	E	1,525				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Ré	E4		359°59'58"	90°21'13"	2,000	56,9500	56,9500		
Irradiado	400	MR	7°35'20"	87°08'07"	3,000	28,6200	28,5900		
Irradiado	401	EDF	10°01'00"	86°18'31"	3,000	22,4000	22,3500		
Irradiado	402	EDF	46°01'06"	86°42'36"	3,000	25,2200	25,1800		
Irradiado	403	MR	51°55'57"	86°06'19"	3,000	21,3000	21,2500		
Irradiado	404	TOCO	45°18'52"	85°53'29"	3,000	20,1100	20,0600		
Irradiado	405	TOCO	50°24'32"	86°05'15"	3,000	21,2300	21,1800		
Irradiado	406	TOCO	47°46'47"	85°59'30"	3,000	20,5900	20,5400		
Irradiado	407	BCO	50°02'42"	86°11'04"	3,000	21,7000	21,6500		
Irradiado	408	BCO	46°42'47"	86°36'02"	3,000	24,3300	24,2900		
Irradiado	409	PORT	27°11'23"	88°52'25"	2,000	22,4900	22,4800		
Irradiado	410	PORT	22°05'45"	88°52'25"	2,000	22,2400	22,2300		
Irradiado	411	SOL	24°34'36"	88°52'25"	2,000	22,3600	22,3600		
Irradiado	412	PORT	28°30'32"	88°33'25"	2,000	17,4600	17,4500		
Irradiado	413	PORT	20°07'26"	88°43'07"	2,000	17,1800	17,1800		
Irradiado	414	PORT	52°44'12"	88°27'43"	2,000	21,2200	21,2100		
Irradiado	415	PORT	57°14'03"	88°34'35"	2,000	22,5900	22,5800		
Irradiado	416	MR	94°53'26"	86°18'44"	2,000	11,8200	11,7900		
Irradiado	417	MOU	81°45'36"	87°27'25"	2,000	13,4400	13,4300		
Irradiado	418	MOU	86°50'30"	87°48'51"	2,000	16,7900	16,7800		
Irradiado	419	MOU	90°22'03"	87°59'19"	2,000	20,2300	20,2200		
Auxiliar	E6	A	59°55'53"	88°57'02"	2,000	29,4100	29,4100		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E6	E	1,535				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Ré	E5		359°59'59"	89°09'16"	2,000	29,4000	29,4000		
Irradiado	500	GRD	134°44'42"	89°14'45"	2,000	29,9500	29,9500		
Irradiado	501	GRD	129°31'10"	87°22'39"	2,000	12,0000	11,9900		
Irradiado	502	GRD	128°06'21"	87°35'47"	2,000	11,3600	11,3500		
Irradiado	503	ESC	152°00'45"	86°50'12"	2,000	11,4600	11,4400		
Irradiado	504	ESC	150°32'46"	86°50'12"	2,000	11,3900	11,3700		
Irradiado	505	ESC	152°01'40"	85°41'18"	2,000	11,4900	11,4600		
Irradiado	506	ESC	150°32'59"	85°41'35"	2,000	11,4300	11,3900		
Irradiado	507	ESC	149°32'53"	86°56'40"	2,000	12,1100	12,0900		
Irradiado	508	ESC	149°38'35"	85°56'27"	2,000	12,1200	12,0900		
Irradiado	509	COL	149°28'51"	86°56'55"	2,000	12,1100	12,0900		
Irradiado	510	COL	151°28'34"	85°57'14"	2,000	12,2300	12,1900		
Irradiado	511	COL	177°52'07"	86°16'22"	2,000	15,4400	15,4100		
Irradiado	512	COL	193°43'57"	87°11'48"	2,000	21,0400	21,0200		
Irradiado	513	COL	202°38'43"	88°14'11"	2,000	27,5500	27,5400		
Irradiado	514	ARQ	206°48'44"	88°36'31"	2,000	26,7000	26,7000		
Irradiado	515	ESC	204°06'08"	87°21'07"	2,600	27,3100	27,2800		
Irradiado	516	ESC	204°20'36"	87°22'27"	2,600	27,5800	27,5500		
Irradiado	517	ESC	204°02'35"	86°53'53"	2,600	27,3300	27,2900		
Irradiado	518	ESC	204°16'53"	86°56'48"	2,600	27,6000	27,5600		
Irradiado	519	ESC	203°05'46"	87°25'02"	2,600	27,8800	27,8500		
Irradiado	520	ESC	203°05'54"	86°59'16"	2,600	27,8800	27,8500		
Irradiado	521	ARQ	154°01'42"	83°21'58"	2,600	10,1900	10,1200		
Irradiado	522	PROJT	130°39'41"	82°57'22"	2,600	8,6100	8,5400		
Irradiado	523	CAL	153°41'55"	82°38'02"	2,600	8,5300	8,4600		
Irradiado	524	CAL	134°04'39"	82°52'12"	2,600	8,7600	8,6900		
Irradiado	525	CAL	129°26'19"	84°28'50"	2,600	11,4200	11,3700		
Irradiado	526	PN	145°37'02"	86°41'14"	2,600	21,4200	21,3800		
Irradiado	527	PN	171°21'40"	86°13'35"	3,000	24,9700	24,9200		
Irradiado	528	PN	185°01'56"	86°58'27"	3,000	31,2200	31,1800		
Irradiado	529	CXQ	211°18'30"	88°45'32"	2,000	24,8200	24,8100		
Irradiado	530	CXQ	210°15'58"	88°46'20"	2,000	25,5400	25,5300		
Irradiado	531	PORT	211°46'57"	88°24'11"	2,000	29,8600	29,8500		
Irradiado	532	PORT	213°34'48"	88°24'14"	2,000	29,6000	29,5900		
Irradiado	533	PORT	212°39'34"	88°19'05"	2,000	29,7300	29,7200		
Irradiado	534	PORT	208°46'33"	88°49'55"	2,000	31,5000	31,4900		
Irradiado	535	PORT	208°20'10"	88°48'19"	2,000	30,8000	30,7900		
Irradiado	536	PORT	208°33'02"	88°49'34"	2,000	31,1600	31,1600		
Irradiado	537	EDF	208°10'21"	88°45'45"	2,000	30,5600	30,5500		
Irradiado	538	EDF	211°24'22"	88°34'01"	2,000	29,9500	29,9400		
Irradiado	539	EDF	229°14'38"	88°42'13"	2,000	28,6800	28,6700		
Irradiado	540	PROJT	230°02'27"	88°41'11"	2,000	27,9700	27,9600		
Irradiado	541	PROJT	207°46'39"	88°44'12"	2,000	30,1800	30,1700		
Irradiado	542	PN	211°12'42"	88°58'11"	2,000	32,7400	32,7400		
Irradiado	543	PN	214°07'36"	88°40'11"	2,000	28,5200	28,5100		
Irradiado	544	PN	210°13'15"	88°46'30"	2,000	30,0600	30,0500		
Irradiado	545	PN	212°07'28"	88°40'42"	2,000	28,7500	28,7400		
Irradiado	546	PN	203°23'44"	88°40'36"	2,000	21,0600	21,0600		



Estação	Descrição	HI	Norte	Este	Cota	Azimute
E6	E	1,535				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Irradiado	547	PN	183°38'05"	87°48'03"	2,000	12,8100	12,8000		
Auxiliar	E7	A	252°41'38"	88°55'41"	2,000	48,7900	48,7800		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E7	E	1,540				

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Ré	E6		0°00'00"	89°56'35"	2,000	48,7800	48,7800		
Irradiado	900	PORT	55°13'38"	88°56'24"	2,000	19,9900	19,9800		
Irradiado	901	PORT	58°09'17"	88°56'40"	2,000	19,8000	19,7900		
Irradiado	902	PORT	56°37'35"	88°56'40"	2,000	19,9200	19,9100		
Irradiado	903	CAL	54°23'58"	89°14'06"	2,000	19,3500	19,3500		
Irradiado	904	CAL	59°08'37"	89°10'26"	2,000	19,1000	19,1000		
Auxiliar	E1	A	64°55'25"	90°37'40"	2,000	59,1000	59,1290		

Estação	Descrição	HI	Norte	Este	Cota	Azimute
E1	E	1,483	8.146.113,6750	666.420,5900	897,444	232°16'30"

Tipo	Nome	Descrição	AHD	AVD	HS	DI	DH	EC	DHxC
Ré	E7		359°59'59"	88°24'51"	2,000	59,1000	59,1290		
Auxiliar	E0	A	86°21'20"	86°59'01"	2,000	17,0700	17,0400		