Austria

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Amstetten 14e9, 48n1	Az	145.4	162.3	174.2	182.5	205.9	233.2
	El	28.8	33.3	34.6	34.7	31.5	20.1
	Sk	-22.2	-4.7	3.2	1.7	17.0	32.4
Bad Ischl 13e6, 47n7	Az	143.9	160.7	172.5	180.9	204.5	232.2
	El	28.7	33.4	34.9	35.2	32.3	21.0
	Sk	-23.4	-5.9	1.9	0.6	16.2	32.1
Bludenz 9e8, 47n2	Az	139.4	155.6	167.3	175.7	199.9	228.7
	El	27.4	32.9	35.0	35.7	33.9	23.5
	Sk	-26.3	-9.3	-1.6	-3.0	13.3	30.7
Braunau 13e1, 48n3	Az	143.4	160.1	171.8	180.1	203.6	231.4
	El	28.0	32.7	34.3	34.6	31.9	21.0
	Sk	-23.3	-6.1	1.6	0.1	15.5	31.3
Dornbirn 9e8, 47n4	Az	139.4	155.6	167.3	175.6	199.7	228.5
	El	27.2	32.6	34.7	35.4	33.6	23.4
	Sk	-26.1	-9.2	-1.5	-2.9	13.2	30.5
Ebensee 13e8, 47n8	Az	144.1	160.8	172.7	181.0	204.6	232.3
	El	28.7	33.3	34.8	35.1	32.1	20.9
	Sk	-23.2	-5.7	2.1	0.7	16.3	32.1
Eisenstadt 16e5, 47n5	Az	147.1	164.3	176.3	184.7	208.1	235.0
	El	30.1	34.2	35.4	35.3	31.6	19.5
	Sk	-21.5	-3.5	4.5	3.2	18.6	33.6
Fohnsdorf 14e7, 47n2	Az	144.8	161.8	173.8	182.3	206.0	233.4
	El	29.6	34.2	35.6	35.7	32.5	20.8
	Sk	-23.0	-5.2	2.8	1.6	17.3	33.1
Fürstenfeld 16e1, 47n1	Az	146.4	163.6	175.7	184.2	207.7	234.8
	El	30.3	34.6	35.8	35.8	32.1	20.1
	Sk	-22.1	-17.7	-9.5	2.9	18.5	33.8
Gmunden 13e8, 47n9	Az	144.2	160.9	172.7	181.1	204.6	232.3
	El	28.6	33.2	34.7	35.0	32.0	20.8
	Sk	-23.1	-5.7	2.1	0.7	16.2	32.0
Innsbruck 11e4, 47n3	Az	141.2	157.7	169.5	177.8	201.9	230.2
	El	28.1	33.2	35.1	35.6	33.3	22.6
	Sk	-25.2	-7.9	-0.1	-1.5	14.6	31.4
Judenburg 14e6, 47n2	Az	144.8	161.8	173.8	182.2	205.9	233.4
	El	29.6	34.2	35.6	35.7	32.5	20.8
	Sk	-23.1	-5.3	2.8	1.5	17.3	33.0
Kapfenberg 15e3, 47n4	Az	145.7	162.7	174.7	183.1	206.7	233.9
	El	29.6	34.1	35.4	35.5	32.0	20.3
	Sk	-22.5	-4.6	3.4	2.1	17.7	33.2
Kirchschlag 16e3, 47n5	Az	146.9	164.1	176.1	184.5	207.9	234.8
	El	30.0	34.2	35.4	35.3	31.6	19.6
	Sk	-21.7	-3.7	4.4	3.0	18.4	33.5
Kitzbühel 12e4, 47n5	Az	142.4	159.0	170.8	179.2	203.0	231.1
	El	28.4	33.3	35.1	35.5	32.9	21.9
	Sk	-24.4	-7.0	0.8	-0.6	15.3	31.7

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Landeck 10e6, 47n2	Az	140.2	156.6	168.3	176.7	200.8	229.4
	El	27.8	33.1	35.2	35.8	33.7	23.1
	Sk	-25.8	-8.6	0.9	-2.2	14.0	30.8
Lienz 12e8, 46n8	Az	142.5	159.3	171.2	179.7	203.7	231.7
	El	29.1	34.1	35.8	36.2	33.4	22.1
	Sk	-24.6	-7.0	1.0	-0.2	16.0	32.5
Linz 14e3, 48n3	Az	144.9	161.7	173.5	181.7	205.1	232.6
	El	28.4	32.9	34.3	34.5	31.5	20.3
	Sk	-22.5	-5.1	2.7	1.2	16.4	31.9
Loeben 15.e1, 47n4	Az	145.4	162.4	174.4	182.8	206.4	233.7
	El	29.6	34.1	35.4	35.5	32.2	20.4
	Sk	-22.6	-4.8	3.2	1.9	17.5	33.1
Ried 13e5, 48n2	Az	143.9	160.6	172.4	180.7	204.2	231.8
	El	28.2	32.8	34.4	34.6	31.8	20.8
	Sk	-23.1	-5.8	1.9	0.5	15.8	31.6
Rottenmann 14e4, 47n5	Az	144.6	161.5	173.5	181.9	205.5	233.0
	El	29.2	33.8	35.2	35.4	32.2	20.8
	Sk	-23.0	-5.3	2.6	1.3	16.9	32.7
Salzburg 13e1, 47n8	Az	143.3	159.9	171.7	180.1	203.7	231.6
	El	28.4	33.2	34.8	35.1	32.4	21.3
	Sk	-23.7	-6.3	1.5	0.1	15.7	31.8
Scheibbs 15e2, 48n0	Az	145.7	162.7	174.6	182.9	206.3	233.5
	El	29.1	33.4	34.7	34.8	31.5	20.0
	Sk	-22.1	-5.6	2.5	2.0	17.3	32.6
Spittal 13e5, 46n8	Az	143.3	160.2	172.2	180.7	204.7	232.5
	El	29.4	34.3	35.9	36.2	33.2	21.7
	Sk	-24.1	-6.4	1.7	0.5	16.6	32.9
Stockerau 16e3, 48n3	Az	147.2	164.2	176.1	184.4	207.6	234.5
	El	29.3	33.4	34.5	34.5	30.9	19.2
	Sk	-21.1	-3.4	4.4	2.9	17.9	32.8
Tauern 12e7, 47n3	Az	142.6	159.3	171.1	179.5	203.4	231.5
	El	28.7	33.6	35.3	35.7	33.0	21.9
	Sk	-24.3	-6.9	1.0	-0.3	15.7	32.0
Villach 13e9, 46n6	Az	143.6	160.6	172.7	181.2	205.2	232.9
	El	29.7	34.6	36.1	36.4	33.3	21.6
	Sk	-24.0	-6.2	2.0	0.9	17.0	33.3
Voitsberg 15e2, 47n1	Az	145.3	162.4	174.5	182.9	206.6	233.9
	El	29.9	34.4	35.8	35.9	32.4	20.6
	Sk	-22.7	-4.8	3.3	2.0	17.8	33.4
Wien 16e4, 48n2	Az	147.2	164.3	176.2	184.5	207.7	234.6
	El	29.4	33.5	34.6	34.6	30.9	19.2
	Sk	-21.1	-3.4	4.5	3.0	18.1	32.9

Belgium

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Antwerpen 4e4, 51n2	Az	135.4	450.5	161.3	169.0	192.0	221.3
	El	21.7	27.3	29.7	30.8	30.7	23.1
	Sk	-26.1	-11.0	-4.6	-6.9	7.5	24.4
Arlon 5e8, 49n7	Az	136.2	151.6	162.7	170.6	194.0	223.4
	El	23.5	29.1	31.6	32.6	32.1	23.7
	Sk	-26.6	-10.9	-4.1	-6.1	9.0	26.4
Bastogne 5e7, 50n0	Az	136.2	151.6	162.6	170.5	193.9	223.2
	El	23.2	28.8	31.3	32.3	331.8	23.5
	Sk	-26.4	-10.8	-4.1	-6.1	8.9	26.1
Bergen 4e0, 50n5	Az	134.6	149.7	160.6	168.4	191.6	221.1
	El	22.0	27.8	30.4	31.6	31.6	23.9
	Sk	-26.9	-11.7	-5.2	-7.4	7.4	24.8
Brügge 3e2, 51n2	Az	134.1	149.2	159.8	167.5	190.5	220.0
	El	21.1	26.9	29.5	30.7	90.9	23.6
	Sk	-26.7	-11.8	-5.5	-7.8	6.5	23.8
Brüssel (Bruxelles) 4e4, 50n8	Az	135.1	150.4	161.2	169.0	192.0	221.4
	El	22.0	27.7	30.2	31.3	31.1	23.5
	Sk	-26.5	-11.2	-4.8	-7.0	7.6	24.7
Charleroi 4e5, 50n4	Az	135.1	150.3	161.1	169.0	192.2	221.7
	El	22.3	28.0	30.6	31.7	31.5	23.8
	Sk	-26.7	-11.4	-4.9	-7.0	7.8	25.1
Eupen 6e0, 50n6	Az	136.8	152.2	163.1	171.0	194.1	223.2
	El	22.9	28.4	30.7	31.7	31.1	22.9
	Sk	-25.8	-10.2	-3.6	-5.7	8.9	25.8
Gent 3e7, 51n0	Az	134.6	149.6	160.4	168.1	191.1	220.6
	El	21.5	27.2	29.8	30.9	31.0	23.6
	Sk	-26.7	-11.6	-5.2	-7.5	7.0	24.2

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Hasselt 5e3, 50n9	Az	136.2	151.4	162.3	170.1	193.2	222.4
	El	22.3	27.8	30.3	31.3	30.9	23.0
	Sk	-25.9	-10.6	-1.1	-6.2	8.3	25.2
Kortrijk 3e3, 50n8	Az	134.0	149.1	159.8	167.5	190.6	220.3
	El	21.4	27.2	29.9	31.1	31.3	23.9
	Sk	-27.0	-12.0	-5.6	-7.8	6.7	24.1
Leuven 4e7, 50n9	Az	135.5	150.7	161.6	169.4	192.4	221.7
	El	22.1	27.6	30.1	31.2	31.0	23.3
	Sk	-26.2	-11.0	-4.5	-6.7	7.8	24.8
Lüttich 5e6, 50n6	Az	136.3	151.7	162.6	17.04	193.6	222.8
	El	22.7	28.2	30.6	31.6	31.1	23.1
	Sk	-26.0	-10.5	-3.9	-6.0	8.6	25.6
Malmedy 6e0, 50n4	Az	136.7	152.1	163.1	170.9	194.2	223.3
	El	23.1	28.5	30.9	31.9	31.3	23.1
	Sk	-25.9	-10.4	-3.7	-5.8	9.0	25.9
Mecheln 4e5, 51n0	Az	135.4	150.5	161.3	169.1	192.1	221.5
	El	21.9	27.5	29.9	31.0	90.9	23.2
	Sk	-26.2	-11.0	-4.6	-6.8	7.6	24.6
Namur 4e9, 50n5	Az	135.5	150.8	161.7	169.5	192.7	22.1
	El	22.5	28.1	30.6	31.7	31.4	23.5
	Sk	3.8	-11.1	-4.5	-6.6	8.1	25.3
Eende 2e9, 51n2	Az	133.8	148.8	159.5	167.1	190.1	219.7
	El	21.0	26.7	29.4	30.6	30.9	23.8
	Sk	-26.9	-12.0	-5.7	-8.0	6.3	23.6

France

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Amiens 2e3, 49n9	Az	132.6	147.6	158.3	166.1	189.5	219.5
	El	21.6	27.7	30.6	31.9	32.4	25.1
	Sk	-28.3	-13.2	-6.8	-8.9	6.1	24.2
Angers 0w6, 47n5	Az	128.7	143.3	154.0	161.9	186.0	217.4
	El	21.8	28.7	32.2	33.8	35.3	28.4
	Sk	-31.8	-16.8	-10.2	-12.1	4.0	24.2
Angouleme 0e2, 45n7	Az	128.6	143.3	154.3	162.3	187.2	219.1
	El	23.4	30.6	34.2	35.9	37.2	29.6
	Sk	-33.1	-17.7	-10.7	-12.3	5.1	26.2
Arras 2e8, 50n3	Az	133.3	148.3	159.0	166.8	190.1	219.9
	El	21.6	27.6	30.4	31.6	31.9	24.6
	Sk	-27.7	-12.6	-6.2	-8.4	6.4	24.2
Bayonne 1e5, 43n3	Az	128.8	143.7	155.1	163.5	189.4	221.8
	El	25.8	33.3	37.0	38.7	39.6	30.9
	Sk	-34.6	-18.5	-10.9	-12.0	6.9	29.0
Belfort 6e8, 47n6	Az	136.4	152.1	163.5	171.7	195.8	225.4
	El	25.6	31.5	34.0	35.0	34.1	24.8
	Sk	-27.7	-11.4	-4.1	-5.6	10.6	28.7
Bordeaux 0w6, 44n8	Az	127.5	142.1	153.0	161.1	186.3	218.7
	El	23.5	31.0	34.8	36.6	38.2	30.7
	Sk	-34.2	-18.8	-11.8	-13.3	4.4	26.3
Boulogne 1w6, 50n7	Az	132.3	147.1	157.7	165.4	184.4	214.9
	El	20.8	26.8	29.6	31.0	31.8	26.1
	Sk	-27.9	-13.1	-6.9	-9.2	2.8	21.3
Brest 4w5, 48n4	Az	125.3	139.3	149.6	157.1	180.6	212.5
	El	19.0	26.2	30.0	31.9	34.4	29.3
	Sk	-32.8	-18.6	-12.7	-15.0	0.4	20.9
Caen 0w4, 49n2	Az	129.7	144.3	154.8	162.6	186.1	216.9
	El	20.8	27.3	30.6	32.2	33.4	26.9
	Sk	-30.2	-15.5	-9.1	-11.3	4.0	23.1
Calais 1e9, 51n0	Az	132.7	147.6	158.2	165.9	188.9	218.7
	El	20.7	26.6	29.5	30.7	31.3	24.4
	Sk	-27.6	-12.8	-6.5	-8.9	5.6	23.2
Chalons-sur-Marne 4w3, 49n0	Az	134.3	149.6	160.6	168.6	192.3	222.2
	El	23.3	29.3	32.1	33.2	33.1	25.0
	Sk	-28.0	-12.4	-5.6	-7.5	8.0	26.1
Charleville-Mezieres 4e7, 49n7	Az	135.0	150.3	161.2	169.1	192.6	222.2
	El	22.9	28.7	31.4	32.5	32.2	24.2
	Sk	-27.2	-11.7	-5.0	-7.0	8.1	25.8
Clermont-Ferrand 3e1, 45n8	Az	131.6	146.8	158.0	166.3	191.2	222.3
	El	25.0	31.8	35.0	36.4	36.7	28.1
	Sk	-31.5	-15.5	-8.1	-9.5	7.8	28.0
Colmar 7e3, 48n1	Az	137.1	152.9	164.2	172.4	196.4	225.7
	El	25.5	31.2	33.7	34.5	33.5	24.2
	Sk	-27.1	-10.7	-3.5	-5.1	10.8	28.5

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Mulhouse 7e3, 47n7	Az	136.9	152.7	164.1	172.4	196.5	225.9
	El	25.8	31.6	34.1	35.0	33.9	24.5
	Sk	-27.4	-11.0	-3.6	-5.1	11.0	28.9
Nancy 6e2, 48n7	Az	136.2	151.7	162.9	171.0	194.8	224.3
	El	24.5	30.2	32.8	33.7	33.1	24.3
	Sk	-27.2	-11.2	-4.2	-5.9	9.7	27.4
Nantes 1w6, 47n2	Az	127.6	142.1	152.7	160.5	184.6	216.4
	El	21.4	28.5	32.1	33.9	35.6	29.1
	Sk	-32.5	-17.7	-11.2	-13.1	3.1	23.8
Nizza 7w3, 43n7	Az	135.0	151.0	163.0	171.7	197.5	227.8
	El	28.9	35.4	38.3	39.3	38.1	27.4
	Sk	-30.8	-13.5	-5.2	-6.0	12.6	32.4
Orleans 1e9, 47n9	Az	131.4	146.3	157.2	165.1	189.2	220.0
	El	22.8	29.4	32.5	33.9	34.6	27.0
	Sk	-30.2	-14.8	-8.1	-9.9	6.2	25.5
Paris 2e3, 48n9	Az	132.2	147.2	158.1	166.0	189.7	220.0
	El	22.4	28.7	31.7	33.1	33.5	26.0
	Sk	-29.2	-13.9	-7.2	-9.2	6.3	25.0
Quimper 4w2, 48n0	Az	125.5	139.6	149.9	157.4	181.1	213.1
	El	19.4	26.7	30.5	32.4	34.9	29.5
	Sk	-33.0	-18.7	-12.6	-14.9	0.7	21.4
Reims 4e0, 49n3	Az	134.1	149.3	160.3	168.2	191.8	221.7
	El	23.0	29.0	31.7	32.9	32.9	24.9
	Sk	-27.9	-12.4	-5.7	-7.7	7.7	25.7
Rennes 1w7, 48n1	Az	127.9	142.3	152.9	160.6	184.5	215.9
	El	20.8	27.7	31.2	32.9	34.7	28.4
	Sk	-31.8	-17.1	-10.7	-12.8	3.0	23.0
Rouen 1e1, 49n5	Az	131.2	146.0	156.7	164.5	188.0	218.4
	El	21.3	27.7	30.7	32.2	33.0	26.0
	Sk	-29.3	-14.3	-7.9	-10.0	5.2	23.8
St.-Etienne 4e4, 45n4	Az	132.8	148.2	159.6	168.0	193.1	223.8
	El	26.0	32.6	35.7	37.0	36.9	27.7
	Sk	-31.0	-14.7	-7.1	-8.4	9.2	29.1
St.-Nazaire 2w2, 47n3	Az	127.1	141.4	151.9	159.7	183.8	215.7
	El	21.0	28.2	31.8	33.7	35.6	29.3
	Sk	-32.8	-18.1	-11.6	-13.6	2.6	23.3
St.-Quentin 3e3, 49n8	Az	133.6	148.7	159.5	167.3	190.8	220.6
	El	22.2	28.1	30.9	32.1	32.3	24.8
	Sk	-27.8	-12.6	-6.0	-8.1	7.0	24.9
Straßburg 7e8, 48n6	Az	137.8	153.6	164.9	173.0	196.8	225.9
	El	25.3	30.9	33.2	34.0	32.9	23.6
	Sk	-26.4	-10.1	-2.9	-4.6	11.1	28.4

Germany

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Aachen 6e1, 50n8	Az	136.9	152.3	163.3	171.1	194.2	223.2
	El	22.8	28.2	30.5	31.5	30.9	22.7
	Sk	-25.6	-10.1	-3.5	-5.6	8.9	25.7
Aalen 10e1, 48n8	Az	140.4	156.5	168.0	176.2	199.7	228.2
	El	26.2	31.3	33.3	33.9	32.1	22.2
	Sk	-24.8	-8.2	-0.9	-2.5	12.9	29.4
Aschaffenburg 9e2, 50n0	Az	139.9	155.7	167.0	175.0	198.2	226.8
	El	24.8	29.9	31.9	32.6	31.2	21.9
	Sk	-24.4	-8.3	-1.3	-3.2	11.7	27.9
Augsburg 10e9, 48n4	Az	141.1	157.4	169.0	177.2	200.9	229.2
	El	26.9	32.0	33.9	34.4	32.4	22.1
	Sk	-24.6	-7.8	-0.3	-1.9	13.7	30.2
Bad Hersfeld 9e7, 50n9	Az	140.8	156.7	167.8	175.8	198.7	227.0
	El	24.3	29.2	31.1	31.7	30.1	20.9
	Sk	-23.5	-7.5	-0.6	-2.7	11.7	27.4
Bad Homburg 8e6, 50n2	Az	139.4	155.2	166.3	174.3	197.5	226.1
	El	24.4	29.5	31.6	32.3	31.0	21.9
	Sk	-24.6	-8.6	-1.7	-3.7	11.1	27.5
Bad Neuenahr 7e1, 50n6	Az	137.9	153.5	164.5	172.4	195.5	224.4
	El	23.5	28.8	31.0	31.8	31.0	22.4
	Sk	-25.2	-9.5	-2.8	-4.8	9.8	26.4
Baden-Baden 8e2, 48n8	Az	138.4	154.2	165.6	173.7	197.4	226.3
	El	25.4	30.8	33.1	33.9	32.6	23.2
	Sk	-26.0	-9.7	-2.5	-4.2	11.3	28.4
Bamberg 10e9, 49n9	Az	141.7	157.8	169.2	177.2	200.4	228.5
	El	25.6	30.5	32.3	32.8	30.8	21.0
	Sk	-23.5	-7.1	0.8	-1.8	13.0	28.9
Bergen 13e4, 54n4	Az	146.2	162.0	172.9	180.5	202.3	229.3
	El	22.7	26.5	27.7	27.9	25.7	16.7
	Sk	-18.9	-3.4	2.9	0.3	12.7	26.2
Berlin 13e4, 52n5	Az	145.5	161.6	172.7	180.5	202.8	230.0
	El	24.4	28.4	29.7	30.0	27.6	18.0
	Sk	-20.2	-4.1	2.6	0.3	13.6	27.8
Bingen 9e3, 48n1	Az	139.2	155.3	166.8	175.0	198.9	227.7
	El	26.4	31.8	33.9	34.6	33.0	23.1
	Sk	-25.9	-9.2	-1.8	-3.3	12.5	29.6
Bonn 7e1, 50n7	Az	138.0	153.5	164.5	172.4	195.5	224.3
	El	23.3	28.6	30.8	31.6	30.8	22.3
	Sk	-25.1	-9.4	-2.7	-4.8	9.7	26.3
Bremen 8e8, 53n1	Az	140.7	156.2	167.1	174.8	197.1	225.2
	El	22.1	26.8	28.6	29.2	28.0	19.7
	Sk	-22.4	-7.0	-0.7	-3.2	10.2	25.2
Chemnitz 12e9, 50n8	Az	144.3	160.6	171.9	179.9	202.6	230.2
	El	25.7	30.0	31.5	31.8	29.4	19.4
	Sk	-21.6	-5.2	-1.9	-0.1	14.1	29.0

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Frankfurt am Main 8e7, 50n1	Az	139.4	155.2	166.4	174.4	197.6	226.2
	El	24.5	29.6	31.7	32.4	31.1	22.0
	Sk	-24.7	-8.6	-1.7	-3.6	11.2	27.6
Freising 11e8, 48n4	Az	142.1	158.5	170.1	178.3	201.9	230.0
	El	27.3	32.2	34.0	34.4	32.1	21.6
	Sk	-24.1	-7.1	0.5	-1.1	14.4	30.6
Göttingen 9e9, 51n5	Az	141.3	157.1	168.2	176.1	198.8	226.9
	El	23.9	28.6	30.4	31.0	29.4	20.4
	Sk	-22.9	-7.0	-0.3	-2.5	11.6	27.0
Hamburg 10e0, 53n6	Az	142.2	157.8	168.7	176.3	198.5	226.2
	El	22.2	26.6	28.3	28.8	27.3	18.8
	Sk	-21.3	-6.0	0.3	-2.2	10.8	25.4
Heide 9e1, 54n2	Az	141.4	156.9	167.6	175.2	197.2	225.1
	El	21.3	25.7	27.5	28.0	26.8	18.8
	Sk	-21.4	-6.3	-0.2	-2.8	10.0	24.5
Heidelberg 8e7, 49n4	Az	139.1	155.0	166.3	174.3	197.8	226.5
	El	25.1	30.3	32.5	33.2	31.9	22.5
	Sk	-25.2	-9.0	-1.9	-3.7	11.5	28.2
Hof 11e9, 50n3	Az	143.0	159.2	170.6	178.6	201.6	229.4
	El	25.7	30.3	31.9	32.3	30.2	20.2
	Sk	-22.6	-6.1	1.0	-0.9	13.6	29.0
Köln 7e0, 51n0	Az	137.9	153.4	164.4	172.2	195.2	224.1
	El	23.1	28.3	30.5	31.4	30.6	22.2
	Sk	-24.9	-9.3	-2.7	-4.8	9.6	26.0
Lübeck 10e7, 53n9	Az	143.0	158.7	169.5	177.1	199.2	226.8
	El	22.2	26.4	28.0	28.5	26.8	18.3
	Sk	-20.8	-5.4	0.9	-1.7	11.2	25.4
München 11e6, 48n1	Az	141.7	158.1	169.8	178.1	201.8	230.0
	El	27.4	32.4	34.2	34.7	32.4	21.9
	Sk	-24.4	-7.38	0.23	-1.3	14.4	30.8
Münster 8e9, 49n9	Az	139.5	155.4	166.6	174.6	197.9	226.5
	El	24.7	29.9	31.9	32.6	31.3	22.0
	Sk	-24.7	-8.6	-1.6	-3.5	11.4	27.9
Nienburg 11e8, 51n8	Az	143.5	159.4	170.6	178.4	201.0	228.6
	El	24.4	28.7	30.3	30.7	28.7	19.2
	Sk	-21.6	-5.5	1.2	-0.9	12.8	27.7
Offenburg 8e0, 48n5	Az	137.9	153.8	165.1	173.3	197.1	226.2
	El	25.5	31.0	33.3	34.2	33.0	23.6
	Sk	-26.3	-10.0	-2.8	-4.4	11.3	28.6
Passau 13e5, 48n6	Az	144.1	160.7	172.4	180.6	204.0	231.7
	El	27.9	32.5	34.0	34.3	31.5	20.6
	Sk	-22.8	-5.6	2.0	0.4	15.6	31.3

Great Britain

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Aberdeen 2w1, 57n1	Az	130.9	145.2	155.1	162.2	183.5	212.2
	El	14.6	19.8	22.4	23.7	25.0	20.6
	Sk	-24.2	-11.1	-6.2	-9.6	1.9	16.8
Belfast 5w9, 54n6	Az	126.3	140.2	150.1	157.2	178.9	208.7
	El	14.4	20.5	23.7	25.4	27.7	24.0
	Sk	-27.8	-14.7	-9.8	-13.0	-0.6	16.2
Birmingham 1w8, 52n5	Az	129.6	143.9	154.1	161.5	184.0	214.0
	El	17.8	23.9	26.9	28.4	29.9	24.6
	Sk	-28.0	-14.1	-8.4	-11.1	2.5	19.9
Bradford 1w8, 53n8	Az	130.1	144.5	154.6	161.9	184.0	213.7
	El	16.9	22.8	25.7	27.1	28.5	23.4
	Sk	-26.9	-13.1	-7.7	-10.6	2.3	19.1
Bristol 2w6, 51n5	Az	128.4	142.7	152.9	160.4	183.1	213.6
	El	18.1	24.5	27.7	29.3	31.1	25.8
	Sk	-29.2	-15.2	-9.5	-12.1	1.9	20.1
Cardiff 3w16, 51n48	Az	127.9	142.1	152.3	159.7	182.4	212.9
	El	17.8	24.3	27.5	29.2	31.1	25.9
	Sk	-29.4	-15.5	-9.9	-12.5	1.5	19.8
Chichester 0w778, 50n83	Az	130.0	144.5	154.9	162.4	185.4	215.8
	El	19.4	25.8	28.9	30.4	31.6	25.6
	Sk	-29.0	-13.6	-7.4	-11.0	3.4	21.7
Coventry 1w5, 52n42	Az	129.9	144.3	154.5	161.9	184.4	214.4
	El	18.0	21.1	27.0	28.6	30.0	24.5
	Sk	-27.9	-13.9	-8.2	-10.9	2.7	20.2
Dover 1w3, 51n1	Az	132.1	146.9	157.5	165.1	188.1	218.0
	El	20.3	26.3	29.1	30.5	31.2	24.6
	Sk	-27.8	-13.1	-6.9	-9.3	5.1	22.7
Edinburgh 3w2, 56n0	Az	129.4	143.6	153.6	160.7	182.2	211.4
	El	14.8	20.4	23.2	24.6	26.2	21.9
	Sk	-25.6	-12.4	-7.4	-10.7	1.2	16.9
Glasgow 4w2, 55n9	Az	128.4	142.5	152.4	159.5	180.9	210.2
	El	14.4	20.1	23.0	24.5	26.4	22.3
	Sk	-26.0	-13.0	-8.1	-11.3	0.5	16.4
Greenwich 0e0, 51n48	Az	131.0	145.6	156.0	156.0	186.4	216.4
	El	19.4	25.5	28.4	28.4	30.9	24.7
	Sk	-28.0	-13.6	-7.7	-14.7	4.0	21.7
Swansea 4w0, 51n6	Az	127.1	141.2	151.3	158.7	181.3	211.9
	El	17.3	23.8	27.1	28.8	31.0	26.1
	Sk	-29.7	-11.0	-4.8	-13.1	0.8	19.2
Wolverhampton 2w2, 52n6	Az	129.2	143.6	153.7	161.1	183.5	213.6
	El	17.5	23.6	26.7	28.2	29.8	24.6
	Sk	-28.1	-11.5	-5.6	-11.3	2.1	19.6
York 1w08, 53n95	Az	130.9	145.3	155.4	162.8	184.8	214.4
	El	17.2	22.9	25.7	27.1	28.3	23.0
	Sk	-26.4	-12.6	-7.16	-10.0	2.9	19.4

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Iverness 4w2, 57n5	Az	129.0	143.0	152.8	159.8	180.9	209.8
	El	13.4	18.8	21.5	22.9	24.6	20.8
	Sk	-24.7	-7.5	-2.4	-10.7	0.5	15.5
Kingston upon hull 0w33, 53n75	Az	131.5	146.0	156.3	163.6	185.8	215.2
	El	17.6	23.4	26.1	27.4	28.5	22.9
	Sk	-26.3	-12.3	-6.8	-9.6	3.4	20.0
Leeds 1w6, 53n8	Az	130.3	-12.96	-7.54	162.1	184.2	213.8
	El	17.0	22.8	25.7	27.1	28.5	23.3
	Sk	-26.8	-13.0	-7.5	-10.5	2.5	19.2
Liverpool 2w9, 53n4	Az	128.8	143.1	153.2	160.4	182.6	212.5
	El	16.6	22.7	25.7	27.3	29.0	24.1
	Sk	-27.7	-14.1	-8.7	-11.5	1.6	18.7
Leicester 1w08, 52n63	Az	130.4	144.8	155.1	162.5	184.9	214.8
	El	18.1	24.1	27.0	28.4	29.7	24.2
	Sk	-27.6	-13.5	-7.8	-10.5	3.0	20.3
London 0w2, 51n5	Az	130.8	145.4	155.8	163.4	186.2	216.2
	El	19.3	25.4	28.3	29.8	30.9	24.8
	Sk	-28.1	-13.6	-7.7	-10.3	3.8	21.6
Manchester 2w3, 53n5	Az	129.5	143.8	154.0	161.3	183.4	213.2
	El	16.9	22.9	25.8	27.3	28.9	23.8
	Sk	-10.4	-13.6	-8.2	-11.1	2.0	19.0
Newcastle upon Tyne 1w6, 55n0	Az	130.7	145.0	155.1	162.4	184.1	213.4
	El	16.2	21.8	24.5	25.9	27.2	22.3
	Sk	-25.8	-10.4	-5.0	-10.0	2.4	18.4
Norwich 1e3, 52n6	Az	132.7	147.4	157.9	165.4	187.9	217.4
	El	19.2	24.9	27.6	28.9	29.6	23.3
	Sk	-26.5	-12.1	-6.2	-8.8	4.8	21.7
Nottingham 1w3, 52n9	Az	130.2	144.6	154.9	162.3	184.6	214.5
	El	17.8	23.7	26.6	28.1	29.5	24.0
	Sk	-27.4	-11.9	-6.1	-10.6	2.8	20.0
Playmouth 4w2, 50n4	Az	126.5	140.5	150.7	158.1	181.0	212.1
	El	17.9	24.7	28.2	30.0	32.3	27.3
	Sk	-30.8	-16.9	-11.1	-13.8	0.7	19.8
Portsmout 1w1, 50n8	Az	129.6	144.1	154.5	162.0	185.0	215.5
	El	19.3	25.6	28.7	30.3	31.7	25.8
	Sk	-29.1	-13.4	-7.2	-11.2	3.2	21.5
Sheffield 1w5, 53n4	Az	130.2	144.6	154.8	162.1	184.4	214.1
	El	17.3	23.2	26.1	27.6	28.9	23.7
	Sk	-27.1	-13.2	-7.7	-10.5	2.6	19.5
Southampeton 1w38, 50n9	Az	129.4	143.8	154.2	161.7	184.7	215.1
	El	19.1	25.5	28.6	30.1	31.6	25.8
	Sk	-29.2	-14.9	-8.9	-11.4	2.9	21.3

Italy

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Ancona 13e5, 43n6	Az	141.8	159.2	171.8	180.7	205.9	234.0
	El	32.2	37.6	39.4	39.8	36.4	23.7
	Sk	-21.6	-7.9	1.1	0.5	18.4	35.9
Arezzo 11e8, 43n5	Az	139.8	156.9	169.4	178.3	203.7	232.5
	El	31.5	37.2	39.3	39.9	37.1	24.9
	Sk	-27.9	-9.6	-0.7	-1.2	16.9	35.1
Asciano 11e5, 43n2	Az	139.3	156.4	168.9	177.9	203.4	232.3
	El	31.5	37.4	39.5	40.1	37.4	25.2
	Sk	-28.4	-10.0	-1.1	-1.6	16.8	35.2
Ascoli Piceno 13e6, 42n9	Az	141.5	159.0	171.7	180.8	206.3	234.4
	El	32.9	38.4	40.2	40.6	37.1	24.2
	Sk	-27.1	-8.2	1.0	0.6	18.9	36.6
Ascoli Satriano 15e5, 41n2	Az	142.9	161.2	174.4	183.8	209.6	237.1
	El	35.3	40.7	42.3	42.3	38.0	23.9
	Sk	-27.0	-7.1	2.8	2.9	21.8	39.2
Bari 16e9, 41n1	Az	144.5	163.1	176.5	185.9	211.4	238.4
	El	36.0	41.1	42.4	42.3	37.5	23.0
	Sk	-25.9	-5.7	4.3	4.4	23.2	39.9
Barletta 16e3, 41n3	Az	143.9	162.3	175.6	185.0	210.5	237.7
	El	35.5	40.7	42.2	42.1	37.5	23.3
	Sk	-26.3	-6.2	3.7	3.7	22.5	39.5
Bergamo 9e7, 45n7	Az	138.5	154.9	166.8	175.3	200.1	229.2
	El	28.5	34.3	36.6	37.3	35.4	24.6
	Sk	-27.5	-10.2	-2.2	-3.2	13.9	31.9
Bologna 11e3, 44n5	Az	139.8	156.6	168.8	177.6	202.7	231.4
	El	30.4	36.0	38.1	38.7	36.2	24.5
	Sk	-27.5	-9.5	-0.9	-1.7	15.9	33.9
Bolzano 11e3, 46n5	Az	140.7	157.3	169.2	177.7	202.0	230.5
	El	28.7	34.0	36.0	36.5	34.2	23.1
	Sk	-25.9	-8.4	-0.4	-1.6	14.9	32.1
Brescia 10e3, 45n5	Az	139.1	155.6	167.6	176.2	201.0	229.9
	El	29.0	34.7	36.9	37.6	35.5	24.4
	Sk	-27.3	-9.8	-1.6	-2.6	14.5	32.4
Cagliari 9e1, 39n3	Az	134.4	151.3	164.3	173.9	201.7	232.1
	El	33.3	40.4	43.4	44.4	42.3	29.4
	Sk	-33.6	-14.8	-5.1	-4.7	16.6	37.6
Carpi 10e9, 44n8	Az	139.4	156.1	168.3	177.0	202.0	230.8
	El	29.9	35.6	37.8	38.4	36.0	24.6
	Sk	-27.5	-8.8	1.2	1.4	15.4	33.4
Carrara 10e1, 44n1	Az	138.2	154.9	167.1	175.9	201.2	230.5
	El	30.1	36.1	38.4	39.1	37.0	25.5
	Sk	-28.6	-10.8	-2.3	-3.0	15.1	33.6
Catania 15e1, 37n5	Az	140.2	159.0	173.2	183.4	211.0	238.7
	El	38.2	44.4	46.3	46.5	41.7	26.3
	Sk	-30.	-9.5	1.6	2.7	24.1	42.7

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
La Spezia 9e8, 44n1	Az	137.9	154.5	166.7	175.5	200.8	230.1
	El	29.9	35.9	38.3	39.0	37.0	25.6
	Sk	-28.8	-11	-2.5	-3.3	14.8	33.5
Lecce 18e2, 40n3	Az	145.7	164.7	178.4	188.0	213.5	239.9
	El	37.3	42.2	43.4	43.1	37.6	22.5
	Sk	-25.5	-4.6	-5.8	6.1	24.9	41.3
Livorno 10e3, 43n5	Az	138.1	154.9	167.2	176.1	201.7	230.9
	El	30.6	36.7	39.1	39.8	37.5	25.8
	Sk	-29.0	-11.0	-2.3	-2.8	15.5	34.3
Milano 9e2, 45n5	Az	137.9	154.2	166.1	174.7	199.5	228.8
	El	28.5	34.4	36.8	37.5	35.8	25.1
	Sk	-28.0	-10.8	-2.7	-2.8	13.6	31.8
Napoli 14e3, 40n8	Az	141.2	159.2	172.5	181.9	208.1	236.1
	El	34.9	40.7	42.6	42.8	38.8	24.9
	Sk	-28.3	-8.6	1.3	1.5	21.0	39.0
Padova 11e6, 45n3	Az	140.5	157.2	169.4	178.0	202.8	231.3
	El	29.8	35.3	37.3	37.8	35.3	23.8
	Sk	-26.6	-8.8	-0.5	-1.4	15.8	33.3
Palermo 13e4, 38n1	Az	138.5	156.8	170.6	180.6	208.3	236.8
	El	36.7	43.2	45.4	45.8	41.8	27.1
	Sk	-31.4	-11.1	-0.4	0.5	21.9	41.2
Parma 10e3, 44n8	Az	138.8	155.4	167.5	176.2	201.3	230.3
	El	29.6	35.4	37.7	38.3	36.1	24.8
	Sk	-27.9	-10.2	-1.8	-2.7	14.9	33.1
Pavia 9e2, 45n2	Az	137.7	154.1	166.0	174.6	199.6	229.0
	El	28.7	34.7	37.1	37.9	36.1	25.3
	Sk	-28.3	-11.0	-2.8	-3.8	13.7	32.1
Pesaro 12e9, 43n9	Az	141.2	158.5	170.9	179.8	204.9	233.2
	El	31.6	37.1	39.0	39.4	36.3	23.9
	Sk	-26.8	-8.3	0.5	-0.1	17.7	35.3
Pescara 14e2, 42n5	Az	142.0	159.8	172.6	181.8	207.3	235.2
	El	33.5	39.0	40.7	41.0	37.2	24.0
	Sk	-27.0	-7.8	1.6	1.3	19.7	37.3
Piacenza 9e6, 45n0	Az	138.1	154.5	166.5	175.2	200.2	229.5
	El	29.1	35.0	37.3	38.1	36.2	25.2
	Sk	-28.2	-10.7	-2.5	-3.4	14.2	32.5
Pisa 10e4, 43n7	Az	138.3	155.1	167.3	176.2	201.7	230.9
	El	30.5	36.5	38.8	39.5	37.3	25.6
	Sk	-28.7	-10.7	-2.1	-2.7	15.5	34.2
Roma 12e5, 41n9	Az	139.7	157.2	170.0	179.3	205.3	233.9
	El	33.1	39.1	41.2	41.6	38.4	25.5
	Sk	-28.8	-9.8	-0.4	-0.6	18.5	37.0

Luxembourg

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 / Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Differdange 5e9, 49n5	Az	136.2	151.7	162.7	170.7	194.2	223.6
	El	23.7	29.3	31.8	32.8	32.3	23.8
	Sk	-26.7	-11.0	-4.1	-6.0	9.2	26.6
Dudelange 6e1, 49n5	Az	136.4	151.9	163.0	170.9	194.5	223.8
	El	23.8	29.5	31.9	32.9	32.3	23.7
	Sk	-26.6	-10.9	4.0	-5.9	9.3	26.7
Esch 6e0, 49n5	Az	136.3	151.8	162.9	170.8	194.3	223.7
	El	23.7	29.4	31.8	32.8	32.2	23.7
	Sk	-26.7	-10.9	-4.0	-5.9	9.3	26.7
Ettelbruck 6e1, 49n8	Az	136.5	152.0	163.1	171.0	194.4	223.7
	El	23.6	29.2	31.6	32.5	31.9	23.5
	Sk	-26.4	-10.7	-3.9	-5.8	9.2	26.5

		Türk sat	Astra 2 / Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Luxembourg 6e2, 49n6	Az	136.5	152.0	163.1	171.0	194.5	223.8
	El	23.7	29.3	31.8	32.7	32.1	23.6
	Sk	-26.5	-10.8	-3.9	-5.8	9.4	26.7
Petange 5e9, 49n6	Az	136.2	151.7	162.7	170.7	194.2	223.6
	El	23.7	29.3	31.8	32.8	32.2	23.8
	Sk	-26.6	-10.9	-4.1	-6.0	9.1	26.5
Remich 6e4, 49n6	Az	136.7	152.3	163.4	171.3	197.8	224.1
	El	23.9	29.5	31.9	32.8	32.2	23.5
	Sk	-26.4	-10.6	-3.7	-5.6	9.6	26.8

Netherlands

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Alkmar 4e7, 52n7	Az	136.2	151.3	162.0	169.6	192.1	221.0
	El	20.7	26.0	28.3	29.3	29.1	21.8
	Sk	-24.8	-9.9	-3.8	-6.3	7.3	23.5
Almelo 6e7, 52n3	Az	138.2	153.5	164.3	172.1	194.7	223.3
	El	21.9	26.9	29.1	29.9	29.2	21.3
	Sk	-24.1	-8.8	-2.5	-4.9	8.9	24.8
Amsterdam 4e9, 52n4	Az	136.3	151.5	162.2	169.8	192.4	221.4
	El	21.1	26.3	28.7	29.7	29.4	22.0
	Sk	-24.9	-10.0	-3.8	-6.2	7.5	23.8
Apeldoorn 6e0, 52n2	Az	137.4	152.6	163.4	171.1	193.8	222.5
	El	21.6	26.8	29.0	29.9	29.4	21.7
	Sk	-24.5	-9.4	-3.1	-5.4	8.4	24.5
Arnhem 5e9, 52n0	Az	137.2	152.5	163.3	171.0	193.7	222.6
	El	21.8	27.0	29.2	30.2	29.7	21.9
	Sk	-24.7	-9.5	-3.2	-5.5	8.4	24.6
Breda 4e7, 51n6	Az	135.8	151.0	161.7	169.5	192.3	221.5
	El	21.5	27.0	29.4	30.4	30.3	22.7
	Sk	-25.7	-10.5	-4.2	-6.5	7.6	24.3
Den Haag 4e3, 52n1	Az	135.6	150.7	161.4	169.0	191.7	220.8
	El	21.0	26.4	28.9	29.8	29.8	22.5
	Sk	-25.5	-10.5	-4.3	-6.7	7.2	23.7
Eindhoven 5e5, 51n4	Az	136.6	151.9	162.7	170.4	193.3	22.4
	El	22.0	27.4	29.7	30.7	30.3	22.5
	Sk	-24.6	-10.1	-3.7	-5.9	8.0	24.1
Emmen 6e9, 52n8	Az	138.6	153.9	164.7	172.4	194.8	223.3
	El	21.6	26.5	28.6	29.4	28.7	20.8
	Sk	-23.6	-8.4	-2.2	-4.6	8.9	24.5
Enschede 6e9, 52n2	Az	138.4	153.8	164.6	172.3	195.0	223.5
	El	22.0	27.1	29.2	30.0	29.3	21.2
	Sk	-24.0	-8.7	-2.4	-4.7	9.1	25.0
Groningen 6e6, 53n2	Az	138.4	153.7	164.4	172.0	194.4	22.8
	El	21.1	26.1	28.1	28.9	28.3	20.6
	Sk	-23.4	-8.4	-2.3	-4.8	8.6	24.0

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Harlem 4e6, 52n4	Az	136.0	151.2	161.8	169.5	192.1	221.1
	El	20.9	26.2	28.6	29.6	29.4	22.1
	Sk	-25.1	-10.1	-4.0	-6.4	7.3	23.6
Hoogeveen 6e5, 52n7	Az	138.1	153.4	164.2	171.8	194.3	222.9
	El	21.5	26.5	28.6	29.5	28.8	21.1
	Sk	-23.9	-8.7	-2.5	-4.9	8.6	24.4
Leeuwarden 5e8, 53n2	Az	137.6	152.8	163.4	171.0	193.4	222.0
	El	20.8	25.8	28.0	28.9	28.4	21.0
	Sk	-23.8	-8.9	-2.8	-5.4	8.0	23.6
Maastricht 5e7, 50n8	Az	136.5	151.9	162.8	170.6	193.7	222.8
	El	22.6	28.1	30.4	31.4	31.0	22.9
	Sk	-25.8	-10.3	-3.8	-5.9	5.4	25.5
Nijmegen 5e9, 51n8	Az	137.1	152.4	163.2	171.0	193.7	222.6
	El	21.9-	27.1	29.4	30.3	29.8	22.0
	Sk	24.9	-9.6	-3.3	-5.6	8.5	24.8
Roermond 6e0, 51n2	Az	137.0	152.4	163.3	171.0	194.0	223.0
	El	22.4	27.8	30.1	31.0	30.5	22.4
	Sk	-25.3	-9.9	-3.4	-5.6	8.7	25.3
Rotterdam 4e5, 51n9	Az	135.7	150.8	161.5	169.2	192.0	221.1
	El	21.2	26.6	29.0	30.1	30.0	22.5
	Sk	-25.5	-10.5	-4.3	-6.6	7.4	24.0
Tilburg 5e1, 51n6	Az	136.2	151.4	162.2	169.9	192.8	221.9
	El	21.7	27.1	29.5	30.5	30.2	22.6
	Sk	-25.5	-10.3	4.0	-6.2	7.9	24.5
Utrecht 5e1, 52n1	Az	136.4	151.6	162.4	170.0	192.7	221.7
	El	21.3	26.7	29.0	30.0	29.7	22.1
	Sk	-25.1	-10.0	-3.8	-6.1	7.8	24.1
Venlo 6e2, 51n3	Az	137.3	152.6	163.5	171.3	194.2	223.2
	El	22.4	27.8	30.0	30.9	30.3	22.3
	Sk	-25.1	-9.7	-3.2	-5.4	8.8	25.3
Warden 5e8, 53n1	Az	137.5	152.7	163.4	171.0	193.4	222.0
	El	20.9	25.9	28.1	29.0	28.5	21.0
	Sk	-23.9	-9.0	-2.9	-5.4	8.0	23.7

Spain

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Albacete 1w8, 39n0	Az	123.2	137.4	148.6	157.2	185.0	220.4
	El	26.3	35.2	39.8	42.3	44.7	36.3
	Sk	-40.5	-24.7	-16.9	-17.5	3.9	30.3
Algeciras 5w5, 36n2	Az	118.4	-37.2	142.1	150.5	179.2	217.7
	El	25.2	35.1	40.6	43.7	48.1	40.7
	Sk	-45.2	-30.2	-22.7	-23.4	-0.7	29.5
Alicante 0w5, 38n4	Az	124.1	138.6	150.0	158.9	187.2	222.3
	El	27.6	36.5	41.0	43.4	45.3	36.0
	Sk	-40.4	-24.2	-16.1	-16.4	5.7	31.9
Almeria 2w5, 36n9	Az	121.4	135.4	146.5	155.3	184.2	221.0
	El	27.1	36.5	41.6	44.2	47.2	38.4
	Sk	-43.0	-27.2	-19.2	-19.6	3.3	31.6
Avila 4w7, 40n7	Az	121.5	135.2	145.8	153.9	180.4	215.9
	El	23.4	32.2	37.0	39.6	43.0	36.3
	Sk	-40.2	-25.3	-18.3	-19.5	0.4	26.4
Badajoz 7w0, 38n8	Az	118.6	131.7	141.9	149.9	176.8	214.1
	El	22.7	32.2	37.5	40.5	45.0	39.1
	Sk	-43.2	-28.6	-21.7	-23.0	-2.5	25.9
Barcelona 2e2, 41n4	Az	128.4	143.6	155.2	163.9	190.8	223.6
	El	27.5	35.3	39.1	40.9	41.6	32.1
	Sk	-36.0	-19.5	-11.4	-12.3	8.1	31.2
Bilbao 2w9, 43n3	Az	124.5	138.6	149.3	157.4	183.0	216.7
	El	23.1	31.1	35.4	37.6	40.1	33.2
	Sk	-36.8	-21.8	-14.8	-16.3	2.2	25.8
Burgos 3w7, 42n4	Az	123.3	137.3	147.9	156.0	182.0	216.3
	El	23.1	31.5	35.9	38.3	41.1	34.3
	Sk	-38.1	-23.1	-16.1	-17.5	1.4	25.9
Cadiz 6w3, 36n5	Az	117.9	130.8	141.2	149.5	177.8	216.4
	El	24.4	34.3	39.8	43.0	47.6	40.9
	Sk	-45.3	-30.5	-23.2	-24.1	-1.8	28.5
Cartagena 1w0, 37n6	Az	123.2	137.6	149.0	157.8	186.6	222.3
	El	27.7	36.8	41.5	44.0	46.2	36.9
	Sk	-41.5	-25.3	-17.1	-17.4	5.2	32.2
Cordoba 4w8, 37n8	Az	119.9	133.3	144.0	152.3	180.3	217.5
	El	24.8	34.3	39.5	42.3	46.2	38.9
	Sk	-43.2	-28.1	-20.7	-21.5	0.3	28.8
Gijon 5w7, 43n5	Az	122.1	135.7	146.0	153.8	179.0	213.2
	El	21.1	29.4	33.9	36.4	39.8	34.2
	Sk	-37.9	-23.4	-16.9	-18.7	-0.7	-0.7
Granada 3w6, 37n2	Az	120.6	134.3	145.2	153.8	182.3	219.4
	El	26.1	35.6	40.7	43.5	46.9	38.8
	Sk	-43.3	-27.8	-20.1	-20.6	1.8	30.4
Hospitalet de Llobregat 2e1, 41n4	Az	128.3	143.4	155.0	163.7	190.7	223.5
	El	27.5	35.3	39.1	40.9	41.7	32.1
	Sk	-36.0	-19.6	-11.5	-12.1	8.0	31.1

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
La Coruna 8w4, 43n3	Az	119.6	132.7	142.7	150.3	175.0	210.0
	El	19.5	28.1	32.9	35.6	39.9	35.5
	Sk	-39.3	-25.3	-19.2	-21.2	-3.6	21.3
Las Palmas 15w4, 28n1	Az	106.8	116.3	124.3	131.0	158.7	208.9
	El	20.2	32.3	39.9	44.7	55.2	53.5
	Sk	-57.6	-45.3	-39.8	-41.8	-18.7	25.3
Madrid 3w7, 40n4	Az	122.3	136.2	146.9	155.1	182.0	217.3
	El	24.2	33.0	37.7	40.2	43.3	36.0
	Sk	-40.1	-24.8	-17.6	-18.6	1.5	27.5
Malaga 4w4, 36n7	Az	119.6	133.1	143.8	152.3	181.0	218.7
	El	25.7	35.4	40.7	43.6	47.4	39.6
	Sk	-44.2	-28.9	-21.2	-21.9	0.8	30.1
Palma de Mallorca 2e7, 39n6	Az	127.9	143.1	155.0	164.0	191.9	225.2
	El	29.0	37.1	41.1	43.0	43.5	33.2
	Sk	-37.4	-20.6	-12.0	-12.3	9.2	33.2
Salamanca 5w7, 41n0	Az	120.9	134.3	144.8	152.8	179.0	214.6
	El	22.6	31.4	36.3	38.9	42.7	36.5
	Sk	-40.4	-25.7	-18.8	-20.2	-0.8	25.3
San Sebastian 2w0, 43n3	Az	125.4	139.7	150.5	158.7	184.4	217.8
	El	23.6	31.6	35.7	37.8	40.0	32.7
	Sk	-36.4	-21.1	-14.0	-15.3	3.2	26.5
Santa Cruz de la Palma 17w8, 28n7	Az	105.6	114.9	122.5	128.9	154.7	204.3
	El	18.0	30.1	37.6	42.5	53.7	53.9
	Sk	-57.7	-45.7	-36.1	-43.1	-22.0	21.1
Santa Cruz de Tenerife 16w3, 28n5	Az	106.4	115.9	123.8	130.4	157.3	207.2
	El	19.4	31.5	39.0	43.8	54.5	53.5
	Sk	-57.5	-45.3	-39.9	-42.0	-19.8	23.6
Santander 3w9, 43n5	Az	123.7	137.7	148.3	156.2	181.7	215.5
	El	22.3	30.5	34.8	37.1	39.9	33.4
	Sk	-37.1	-22.3	-15.5	-17.0	1.2	24.9
Sevilla 6w0, 37n4	Az	118.7	131.8	142.2	150.4	178.4	216.3
	El	24.2	33.9	39.3	42.3	46.7	39.9
	Sk	-44.2	-29.3	-22.1	-23.1	-1.3	28.0
Valencia 0w7, 39n3	Az	124.5	139.0	150.3	159.5	186.8	221.6
	El	26.9	35.6	40.0	42.3	44.3	35.3
	Sk	-39.6	-23.2	-15.1	-15.7	5.2	30.9
Valladolid 4w7, 41n6	Az	122.0	135.7	146.3	154.3	180.4	215.4
	El	22.8	31.5	36.1	38.6	41.9	35.5
	Sk	-39.3	-24.5	-17.5	-18.9	0.3	25.7
Vigo 8w7, 42n2	Az	118.8	131.8	141.8	149.4	174.5	210.2
	El	19.8	28.7	33.7	36.5	41.1	36.7
	Sk	-40.5	-26.5	-20.3	-22.4	-4.1	21.8

Switzerland

Az = Azimuth El = Elevation Sk = Skew

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Basel 7e6, 47n6	Az	137.1	153.0	164.5	172.7	196.9	226.2
	El	26.0	31.8	34.2	35.1	34.0	24.4
	Sk	-27.3	-10.8	-3.4	-4.9	11.3	29.1
Bern 7e4, 47n0	Az	136.7	152.6	164.1	172.4	196.8	226.3
	El	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-27.9	-11.3	-3.8	-5.2	11.3	29.5
Biel 8e2, 46n5	Az	137.3	153.4	165.0	173.4	198.0	227.4
	El	27.2	33.1	35.5	36.4	35.0	24.9
	Sk	-27.8	-11.0	-3.3	-4.5	12.2	30.4
Genf 6e2, 46n2	Az	135.0	150.7	162.2	170.6	195.3	225.3
	El	26.3	32.6	35.3	36.4	35.7	26.2
	Sk	-29.3	-12.8	-5.2	-6.5	10.6	29.5
Köniz 7e4, 46n9	Az	136.7	152.5	164.1	172.4	196.8	226.3
	El	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-28.0	-11.4	-3.8	-5.2	11.4	29.6
Lausanne 6e7, 46n5	Az	135.7	151.4	162.9	171.3	195.9	225.7
	El	26.4	32.5	35.1	36.1	35.3	25.7
	Sk	-28.7	-12.2	-4.6	-6.0	10.9	29.6

		Türk sat	Astra 2 Eutel sat 28A	Astra 1	Hot bird	Eutel sat5 West A	Hispa sat
		42.0E	28.2E	19.2E	13.0E	5.0W	30.0W
Locarno 8e8, 46n2	Az	137.8	154.0	165.7	174.2	198.8	228.1
	El	27.7	33.6	35.9	36.7	35.2	24.8
	Sk	-27.7	-10.7	-2.8	-4.0	12.9	31.0
Luzern 7e9, 47n0	Az	137.2	153.2	164.7	173.1	197.4	226.8
	El	26.6	32.4	34.8	35.7	34.5	24.6
	Sk	-27.6	-10.9	-3.4	-4.7	11.8	29.8
Sankt Gallen 9e4, 47n4	Az	139.0	155.2	166.8	175.1	199.2	228.1
	El	27.0	32.5	34.7	35.4	33.7	23.6
	Sk	-26.4	-9.5	-1.9	-3.3	12.9	30.3
Thun 7e6, 46n8	Az	136.8	152.8	164.3	172.7	197.1	226.6
	El	26.7	32.6	35.0	36.0	34.8	25.0
	Sk	-28.0	-11.3	-3.7	-5.1	11.6	29.8
Winterthur 8e8, 47n5	Az	138.4	154.4	166.0	174.2	198.4	227.4
	El	26.6	32.2	34.5	35.3	33.8	23.9
	Sk	-26.7	-9.9	-2.4	-3.8	12.3	29.9
Zürich 8e6, 47n4	Az	138.1	154.1	165.7	174.0	198.1	227.3
	El	26.6	32.3	34.6	35.4	34.0	24.0
	Sk	29.8	-10.1	-2.6	-4.0	12.2	29.8

Denmark

Az = Azimuth El = Elevation Sk = Skew

		Astra 2 / Eutel sat 28A	Astra 3	Astra 1	Eutelsat 16A	Hotbird	Eutelsat 10A	Eutelsat 7A	Astra 4A SES 5	Thor 3/5 / Intelsat 10-02	Eutel sat 5 West A	Hispasat
		28.2E	23.5 E	19.2E	16.0E	13.0W	10.0W	7.0E	5.0E	1.0W	5.0W	30.0 W
Alborg 9e9, 57n1	Az	158.5	163.9	169.0	172.8	176.3	179.9	183.5	187.0	193.0	197.6	224.9
	El	23.1	23.9	24.6	24.9	25.0	25.1	25.0	24.8	24.4	23.8	16.3
	Sk	-4.5	-1.7	1.0	-3.9	-2.0	-0.1	1.9	3.8	7.0	9.4	22.5
Arhus 10e2, 56n2	Az	158.7	164.1	169.2	173.0	176.7	180.3	183.9	187.5	193.4	198.1	225.5
	El	24.1	24.9	25.5	25.8	26.0	26.0	26.0	25.7	25.3	24.6	16.9
	Sk	-4.7	-1.8	1.0	-3.9	-1.9	0.1	2.1	4.1	7.4	10.0	23.4
Esbjerg 8e5, 55n5	Az	156.5	162.0	167.0	170.9	174.5	178.1	181.8	185.5	191.4	196.2	224.0
	El	24.3	25.3	26.0	26.4	26.7	26.8	26.8	26.6	26.2	25.6	18.1
	Sk	-6.1	-3.1	-0.3	-5.1	-3.1	-1.0	1.0	3.1	6.5	9.1	23.2
Helsingor 12e6, 56n1	Az	161.4	166.9	172.1	175.9	179.6	183.2	186.8	190.3	196.3	201.0	228.0
	El	24.7	25.4	25.9	26.1	26.2	26.1	26.0	25.6	25.0	24.2	15.9
	Sk	-3.2	-0.2	2.6	-2.3	-0.3	1.8	3.8	5.7	9.0	11.5	24.5
Horsens 10e1, 57n1	Az	158.8	164.2	169.2	173.0	176.6	180.1	183.7	187.3	193.2	197.8	225.1
	El	23.1	24.0	24.5	24.8	25.0	25.0	25.0	24.8	24.3	23.7	16.2
	Sk	-4.4	-1.5	1.2	-3.8	-1.9	0.1	2.0	3.9	7.1	9.6	22.6
Kobenhavn (Kopenhagen) 12e6, 55n7	Az	161.3	166.9	172.0	175.8	179.5	183.1	186.7	190.4	196.3	201.0	228.0
	El	25.0	25.8	26.3	26.5	26.6	26.5	26.4	26.1	25.4	24.6	16.2
	Sk	-3.4	-0.4	2.5	-2.3	-0.3	1.8	3.8	5.8	9.1	11.7	24.8
Kolding 9e5, 55n5	Az	157.7	163.2	168.3	172.1	175.8	179.4	183.0	186.7	192.7	197.4	225.0
	El	24.6	25.5	26.2	26.5	26.7	26.8	26.7	26.5	26.1	25.4	17.7
	Sk	-5.4	-2.4	0.4	-4.5	-2.4	-0.3	1.7	3.8	7.1	9.8	23.6
Odense 10e4, 55n4	Az	158.7	164.2	169.4	173.2	176.9	180.5	184.1	187.8	193.8	198.5	226.0
	El	24.9	25.8	26.4	26.7	26.8	26.9	26.8	26.6	26.0	25.3	17.3
	Sk	-4.9	-1.9	1.0	-3.9	-1.8	0.3	2.3	4.4	7.8	10.4	24.1
Randers 10e1, 56n5	Az	158.5	164.1	169.1	172.9	176.5	180.1	183.7	187.3	193.2	197.9	225.2
	El	23.7	24.6	25.2	25.5	25.7	25.7	25.7	25.4	25.0	24.3	16.7
	Sk	-4.7	-1.7	1.0	-3.9	-1.9	0.1	2.1	4.0	7.3	9.8	23.1
Roskilde 12e, 55n7	Az	160.8	166.3	171.4	175.3	178.9	182.6	186.2	189.8	195.8	200.5	227.6
	El	25.0	25.7	26.3	26.5	26.6	26.6	26.4	26.1	25.5	24.8	16.4
	Sk	-3.7	-0.7	2.2	-2.7	-0.6	1.4	3.5	5.5	8.8	11.3	24.6
Vejle 9e6, 55n7	Az	157.8	163.3	168.4	172.2	175.8	179.5	183.1	186.8	192.7	197.4	225.0
	El	24.3	25.3	25.9	26.3	26.4	26.5	26.5	26.3	25.8	25.2	17.5
	Sk	-5.3	-2.3	0.5	-4.4	-2.3	-0.3	1.8	3.8	7.2	9.8	23.5

Finland

Az = Azimuth El = Elevation Sk = Skew

		Astra 2 Eutel sat 28A	Astra 3	Astra 1	Eutelsat 16A	Hotbird	Eutelsat 10A	Eutelsat 7A	Astra 4A SES 5	Thor 3/5 Intelsat 10-02	Eutel sat 5 West A	Hispasat
		28.2E	23.5 E	19.2E	16.0E	13.0W	10.0W	7.0E	5.0E	1.0W	5.0W	30.0 W
Espoo 24e7, 60n2	Az	176.0	181.4	186.3	190.0	193.4	196.8	200.2	203.5	209.0	213.3	238.4
	El	21.7	21.7	21.6	21.3	21.1	20.6	20.1	19.5	18.4	17.3	8.1
	Sk	5.0	7.7	10.2	5.0	6.6	8.3	9.9	11.4	14.0	15.8	25.1
Helsinki 25e0, 60n1	Az	176.3	181.7	186.7	190.4	193.8	197.2	200.5	203.9	209.4	213.7	238.7
	El	21.8	21.8	21.6	21.4	21.0	20.6	20.1	19.5	18.3	17.3	8.0
	Sk	5.1	7.9	10.3	5.1	6.8	8.5	10.1	11.6	14.2	16.0	25.2
Jyväskylä 25e8, 62n3	Az	177.3	182.6	187.5	191.1	194.4	197.8	201.1	204.3	209.7	214.0	239.0
	El	19.5	19.5	19.3	19.1	18.8	18.4	17.9	17.3	16.2	15.2	6.5
	Sk	5.8	8.2	10.5	5.1	6.6	8.1	9.6	11.0	13.3	15.1	23.5
Kotka 26e9, 60n4	Az	178.5	183.9	188.9	192.5	195.9	199.3	202.6	205.9	211.3	215.6	240.5
	El	21.5	21.5	21.2	20.9	20.5	20.0	19.5	18.8	17.6	16.4	7.0
	Sk	6.3	8.9	11.4	6.1	7.8	9.4	10.9	12.5	14.9	16.7	25.5
Kuopio 27e7, 62n9	Az	179.4	184.7	189.5	193.1	196.4	199.7	203.0	206.3	211.6	215.8	240.6
	El	18.9	18.8	18.6	18.3	17.9	17.4	16.9	16.3	15.2	14.1	5.5
	Sk	6.7	9.2	11.3	5.9	7.4	8.8	10.3	11.6	13.8	15.5	23.4
Lahti 25e7, 61n0	Az	177.1	182.5	187.4	191.0	194.4	197.8	201.1	203.7	209.9	214.1	239.1
	El	20.9	20.9	20.7	20.4	20.1	19.7	19.1	14.7	17.4	16.3	7.3
	Sk	5.6	8.2	10.6	5.3	7.0	8.5	10.1	9.8	14.0	15.8	24.6
Oulu 25e4, 65n0	Az	176.9	182.1	186.9	190.4	193.7	196.9	200.2	203.4	208.7	213.0	238.0
	El	16.7	16.7	16.5	16.3	16.0	15.7	15.3	14.8	13.8	12.9	5.2
	Sk	5.7	7.9	9.9	4.4	5.7	7.1	8.4	9.7	11.7	13.3	21.0
Pori 21e8, 61n5	Az	172.7	178.1	183.0	186.5	189.9	193.3	196.7	200.1	205.5	209.8	235.3
	El	20.2	20.3	20.3	20.2	20.0	19.7	19.3	18.8	17.9	16.9	8.6
	Sk	3.5	6.1	8.4	3.1	4.8	6.3	7.9	9.4	11.9	13.8	23.1
Tampere 23e8, 61n5	Az	174.9	180.3	185.2	188.8	192.2	195.6	198.9	202.3	207.7	212.0	237.2
	El	20.2	20.4	20.2	20.0	19.8	19.4	18.9	18.4	17.4	16.4	7.8
	Sk	4.6	7.2	9.5	4.2	5.8	7.4	8.9	10.4	12.8	14.7	23.7
Turku 22e3, 60n5	Az	173.2	178.6	183.5	187.2	190.6	194.0	197.4	200.8	206.3	210.6	236.0
	El	21.3	21.4	21.4	21.3	21.0	20.7	20.3	19.7	18.7	17.7	9.0
	Sk	3.6	6.3	8.7	3.6	5.2	6.9	8.5	10.1	12.6	14.6	24.1
Vantaa 25e0, 60n3	Az	176.3	181.7	186.6	190.3	193.7	197.1	200.5	203.8	209.3	213.6	238.6
	El	21.6	21.6	21.5	21.2	20.9	20.5	19.9	19.4	18.2	17.1	7.9
	Sk	5.2	7.9	10.3	5.1	6.8	8.4	10.0	11.6	14.0	15.9	25.0

Norway

Az = Azimuth El = Elevation Sk = Skew

		Astra 2 / Eutel sat 28A	Astra 3	Astra 1	Eutelsat 16A	Hotbird	Eutelsat 10A	Eutelsat 7A	Astra 4A SES 5	Thor 3/5 / Intelsat 10-02	Eutel sat 5 West A	Hispasat
		28.2E	23.5 E	19.2E	16.0E	13.0W	10.0W	7.0E	5.0E	1.0W	5.0W	30.0 W
Bergen 5e3, 60n4	Az	154.1	159.3	164.1	167.8	171.2	174.6	178.1	181.5	187.3	191.8	219.2
	El	18.9	19.8	20.5	20.9	21.2	21.4	21.5	21.5	21.3	21.0	15.4
	Sk	-5.5	-3.1	-0.8	-6.0	-4.4	-2.7	-1.0	0.7	3.6	5.8	18.2
Drammen 10e3, 59n8	Az	159.4	164.8	169.7	173.4	176.8	180.3	183.8	187.3	193.0	197.5	224.4
	El	20.5	21.2	21.8	22.0	22.2	22.2	22.2	21.9	21.5	21.0	14.2
	Sk	-3.2	-0.6	1.8	-3.3	-1.6	0.2	1.9	3.7	6.5	8.7	20.6
Kristiansand 8e0, 58n1	Az	156.6	161.9	166.9	170.6	174.1	177.7	181.2	184.7	190.6	195.2	222.6
	El	21.6	22.6	23.2	23.6	23.8	23.9	23.9	23.9	23.5	23.0	16.2
	Sk	-5.1	-2.4	0.1	-5.0	-3.1	-1.2	0.6	2.5	5.6	8.0	21.0
Oslo 10e8, 59n9	Az	160.0	165.4	170.3	173.9	177.4	180.9	184.3	187.9	193.5	198.1	224.9
	El	20.4	21.2	21.7	21.9	22.0	22.0	22.0	21.8	21.3	20.7	13.9
	Sk	-2.9	-0.3	2.1	-3.0	-1.3	0.5	2.2	3.9	6.8	9.0	20.8
Stavanger 5e8, 59n0	Az	154.3	159.6	164.4	168.1	171.6	175.0	178.5	182.1	187.9	192.5	220.0
	El	20.3	21.3	22.0	22.5	22.8	22.9	23.0	23.0	22.8	22.4	16.4
	Sk	-5.9	-3.4	-1.0	-6.1	-4.3	-2.5	-0.7	1.1	4.1	6.4	19.4
Trondheim 10e4, 63n6	Az	160.3	165.4	170.2	173.7	177.1	180.4	183.8	187.1	192.7	197.1	223.5
	El	16.7	17.4	17.8	18.0	18.1	18.1	18.1	18.0	17.6	17.1	11.3
	Sk	-1.7	0.6	2.6	-2.8	-1.3	0.2	1.7	3.2	5.6	7.5	17.8

Sweden

Az = Azimuth El = Elevation Sk = Skew

		Astra 2 Eutel sat 28A	Astra 3	Astra 1	Eutelsat 16A	Hotbird	Eutelsat 10A	Eutelsat 7A	Astra 4A SES 5	Thor 3/5 Intelsat 10-02	Eutel sat 5 West A	Hispasat
		28.2E	23.5 E	19.2E	16.0E	13.0W	10.0W	7.0E	5.0E	1.0W	5.0W	30.0 W
Malmö 13e0, 55n6	Az	161.8	167.3	172.5	176.4	180.0	183.6	190.9	187.3	196.8	201.5	228.5
	El	25.2	25.9	26.4	26.6	26.7	26.6	26.1	26.4	25.4	24.6	16.1
	Sk	-3.2	-0.1	2.8	-2.1	0.0	2.1	6.1	4.1	9.4	12.0	25.0
Norrköping 16e2, 58n6	Az	166.0	171.5	176.4	180.2	183.7	187.2	194.2	190.7	199.9	204.4	230.7
	El	22.6	23.1	23.4	23.5	23.4	23.2	22.6	23.0	21.8	21.0	12.7
	Sk	-0.3	2.6	5.1	0.1	2.0	3.8	7.4	5.6	10.2	12.5	23.8
Stockholm 18e1, 59n3	Az	168.3	173.7	178.7	182.4	185.9	189.4	194.1	192.8	201.9	206.4	232.3
	El	22.1	22.5	22.7	22.6	22.5	22.3	21.9	22.0	20.7	19.8	11.4
	Sk	1.0	3.8	6.3	1.3	3.0	4.8	7.2	6.5	11.0	13.1	23.8
Sundsval 17e2, 62n4	Az	167.6	172.9	177.7	181.4	184.7	188.1	194.8	191.5	200.4	204.7	230.6
	El	18.8	19.2	19.4	19.4	19.3	19.2	18.6	18.9	17.8	17.1	9.8
	Sk	1.3	3.7	6.0	0.6	2.2	3.8	6.8	5.3	9.3	11.2	21.0
Umea 21e2, 63n8	Az	172.2	177.4	182.2	185.8	189.1	192.4	199.0	195.7	204.5	208.7	234.2
	El	17.7	17.9	17.9	17.8	17.6	17.4	16.6	17.0	15.8	14.9	7.4
	Sk	3.6	5.9	8.0	2.6	4.0	5.5	8.3	6.9	10.5	12.3	21.0
Uppsala 17e6, 59n9	Az	167.8	173.2	178.2	181.9	185.4	188.8	195.6	192.2	201.3	205.7	231.7
	El	21.4	21.9	22.0	22.0	21.9	21.7	21.1	21.4	20.2	19.4	11.2
	Sk	0.9	3.6	6.1	0.9	2.7	4.4	7.8	6.1	10.5	12.6	23.2
Vasteras 16e5, 59n6	Az	166.5	171.9	176.9	180.6	184.1	187.6	194.4	191.0	200.1	204.6	230.7
	El	21.6	22.1	22.3	22.4	22.3	22.1	21.5	21.9	20.7	19.9	11.9
	Sk	0.2	2.9	5.4	0.3	2.1	3.8	7.2	5.5	10.0	12.1	23.1
Visby (Gotland) 18e3, 57n6	Az	168.3	173.9	178.9	182.7	186.3	189.8	196.8	193.3	202.5	207.0	233.0
	El	23.9	24.3	24.5	24.5	24.3	24.1	23.3	23.8	22.4	21.4	12.4
	Sk	0.8	3.7	6.4	1.5	3.4	5.2	8.9	7.1	11.9	14.1	25.4
Västervik 16e6, 57n7	Az	166.4	171.9	176.9	180.7	184.3	187.8	194.8	191.3	200.6	205.1	231.4
	El	23.6	24.1	24.4	24.4	24.3	24.1	23.5	23.9	22.6	21.7	13.1
	Sk	-0.2	2.7	5.4	0.4	2.3	4.2	7.9	6.0	10.8	13.1	24.7
Växjö 14e6, 56n9	Az	163.9	169.4	174.5	178.3	181.9	185.5	192.6	189.0	198.4	203.0	229.7
	El	24.1	24.8	25.1	25.2	25.2	25.1	24.6	24.9	23.8	23.0	14.5
	Sk	-1.7	1.2	4.0	-0.9	1.0	3.0	6.8	4.9	9.9	12.3	24.6
Örebro 15e1, 59n3	Az	164.8	170.3	175.2	178.9	182.4	185.9	193.3	189.4	198.5	203.0	229.4
	El	21.8	22.3	22.6	22.7	22.7	22.5	25.1	22.3	21.3	20.5	12.7
	Sk	0.7	2.0	4.6	-0.5	1.3	3.0	7.3	4.8	9.4	11.5	22.8
Östersund 14e7, 63n6	Az	165.0	170.2	175.0	178.5	181.9	185.2	191.9	188.6	197.4	201.8	227.9
	El	17.3	17.8	18.1	18.1	18.1	18.0	17.6	17.9	17.0	16.4	9.9
	Sk	0.4	2.7	4.8	-0.7	0.8	2.3	5.3	3.8	7.7	9.5	19.3
Malmö 13e0, 55n6	Az	161.8	167.3	172.5	176.4	180.0	183.6	190.9	187.3	196.8	201.5	228.5
	El	25.2	25.9	26.4	26.6	26.7	26.6	26.1	26.4	25.4	24.6	16.1
	Sk	-3.2	-0.1	2.8	-2.1	0.0	2.1	6.1	4.1	9.4	12.0	25.0
Norrköping 16e2, 58n6	Az	166.0	171.5	176.4	180.2	183.7	187.2	194.2	190.7	199.9	204.4	230.7
	El	22.6	23.1	23.4	23.5	23.4	23.2	22.6	23.0	21.8	21.0	12.7
	Sk	-0.3	2.6	5.1	0.1	2.0	3.8	7.4	5.6	10.2	12.5	23.8
Stockholm 18e1, 59n3	Az	168.3	173.7	178.7	182.4	185.9	189.4	194.1	192.8	201.9	206.4	232.3
	El	22.1	22.5	22.7	22.6	22.5	22.3	21.9	22.0	20.7	19.8	11.4
	Sk	1.0	3.8	6.3	1.3	3.0	4.8	7.2	6.5	11.0	13.1	23.8
Sundsval 17e2, 62n4	Az	167.6	172.9	177.7	181.4	184.7	188.1	194.8	191.5	200.4	204.7	230.6
	El	18.8	19.2	19.4	19.4	19.3	19.2	18.6	18.9	17.8	17.1	9.8
	Sk	1.3	3.7	6.0	0.6	2.2	3.8	6.8	5.3	9.3	11.2	21.0
Umea 21e2, 63n8	Az	172.2	177.4	182.2	185.8	189.1	192.4	199.0	195.7	204.5	208.7	234.2
	El	17.7	17.9	17.9	17.8	17.6	17.4	16.6	17.0	15.8	14.9	7.4
	Sk	3.6	5.9	8.0	2.6	4.0	5.5	8.3	6.9	10.5	12.3	21.0
Uppsala 17e6, 59n9	Az	167.8	173.2	178.2	181.9	185.4	188.8	195.6	192.2	201.3	205.7	231.7
	El	21.4	21.9	22.0	22.0	21.9	21.7	21.1	21.4	20.2	19.4	11.2
	Sk	0.9	3.6	6.1	0.9	2.7	4.4	7.8	6.1	10.5	12.6	23.2
Vasteras 16e5, 59n6	Az	166.5	171.9	176.9	180.6	184.1	187.6	194.4	191.0	200.1	204.6	230.7
	El	21.6	22.1	22.3	22.4	22.3	22.1	21.5	21.9	20.7	19.9	11.9
	Sk	0.2	2.9	5.4	0.3	2.1	3.8	7.2	5.5	10.0	12.1	23.1
Visby (Gotland) 18e3, 57n6	Az	168.3	173.9	178.9	182.7	186.3	189.8	196.8	193.3	202.5	207.0	233.0
	El	23.9	24.3	24.5	24.5	24.3	24.1	23.3	23.8	22.4	21.4	12.4
	Sk	0.8	3.7	6.4	1.5	3.4	5.2	8.9	7.1	11.9	14.1	25.4
Västervik 16e6, 57n7	Az	166.4	171.9	176.9	180.7	184.3	187.8	194.8	191.3	200.6	205.1	231.4
	El	23.6	24.1	24.4	24.4	24.3	24.1	23.5	23.9	22.6	21.7	13.1
	Sk	-0.2	2.7	5.4	0.4	2.3	4.2	7.9	6.0	10.8	13.1	24.7
Växjö 14e6, 56n9	Az	163.9	169.4	174.5	178.3	181.9	185.5	192.6	189.0	198.4	203.0	229.7
	El	24.1	24.8	25.1	25.2	25.2	25.1	24.6	24.9	23.8	23.0	14.5
	Sk	-1.7	1.2	4.0	-0.9	1.0	3.0	6.8	4.9	9.9	12.3	24.6
Örebro 15e1, 59n3	Az	164.8	170.3	175.2	178.9	182.4	185.9	193.3	189.4	198.5	203.0	229.4
	El	21.8	22.3	22.6	22.7	22.7	22.5	25.1	22.3	21.3	20.5	12.7
	Sk	0.7	2.0	4.6	-0.5	1.3	3.0	7.3	4.8	9.4	11.5	22.8
Östersund 14e7, 63n6	Az	165.0	170.2	175.0	178.5	181.9	185.2	191.9	188.6	197.4	201.8	227.9
	El	17.3	17.8	18.1	18.1	18.1	18.0	17.6	17.9	17.0	16.4	9.9
	Sk	0.4	2.7	4.8	-0.7	0.8	2.3	5.3	3.8	7.7	9.5	19.3