




Antenna Pointing Information :

English  *ASTRA 23.5 E*
Beam Tilt Angle 7.5°
Horizontal Polarization (Downlink)



English

How to use the pointing information?

- Select the city the closest to your position;
- Identify the pointing data applicable for your position in the table on the next pages;
- Install your antenna according to the city closest to you and use the applicable scale as indicated in the Point&Play® Manual.

Azimuth

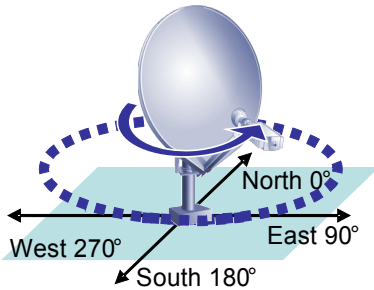
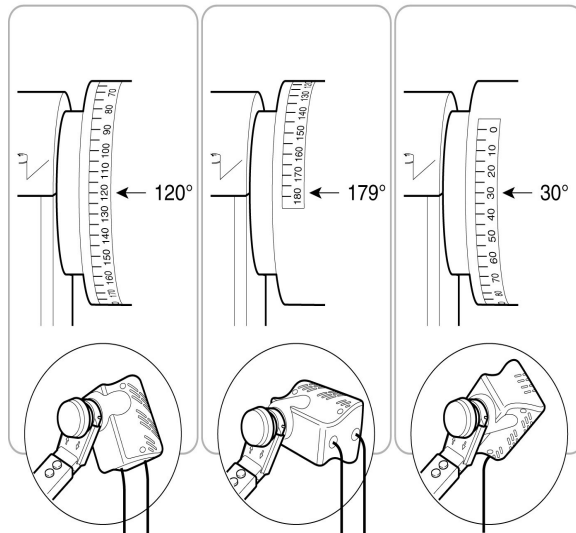
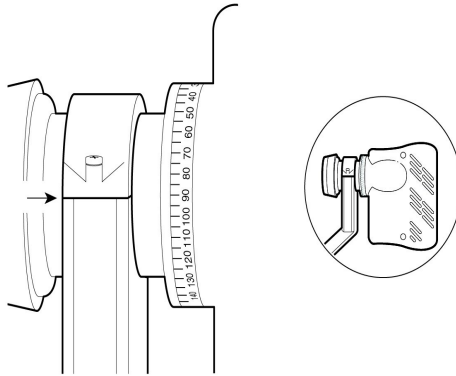


Table Legend – page 4

Avg. Azimuth in degrees (°): Average horizontal direction of the antenna in degrees:

Feed Scale in degrees (°) - column 1: Position of the iLNB as explained in the Point&Play® Manual.

Elevation in degrees (°) - column 2: Vertical position of the antenna as explained in the Point&Play® Manual.



	1	2		1	2		1	2		1	2
City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Albania			Austria			Belarus			Bouillon	7	30
Avg. Azimuth (°):		175	Avg. Azimuth (°):		167	Avg. Azimuth (°):		186	Brugge	8	29
Berat	176	43	Bad Ischl	1	34	Babruysk	168	29	Brussel Bruxelles	7	29
Durrës	177	42	Bregenz	5	34	Baranovichi	168	29	Charleroi	8	29
Elbasan	176	42	Dornbirn	5	34	Brest	172	30	Gent	8	29
Fier	177	43	Eisenstadt	179	35	Homyel	169	27	Hasselt	7	29
Koncka	176	43	Graz	180	35	Hrodna	170	30	Kortrijk	8	29
Korce	176	43	Horn	179	34	Lida	171	28	Liège	7	30
Kukes	176	41	Innsbruck	3	34	Mahilyow	168	28	Mechelen	7	29
Lezhë	177	42	Klagenfurt	1	36	Mazyr	168	30	Mons	7	29
Moscopole	176	43	Krems an der Donau	179	34	Minsk	169	28	Namur	7	30
Peshkopi	176	42	Leoben	0	35	Mogilev	166	28	Oostende	8	28
Sarande	177	44	Lienz	2	35	Orsha	168	27			
Shengjin	177	42	Linz	1	34	Petrikov	169	30			
Shkodër	177	41	Saalfelden am Steinernen Meer	2	33	Pinsk	171	30	Bosnia and Herzegovina		
Tirana	177	42	Salzburg	2	34	Polatsk	169	27	Avg. Azimuth (°):		172
Vlore	177	43	St. Pölten	179	34	Ruzhany	171	30	Banja Luka	179	38
			Sankt Anton am Arlberg	5	34	Starobin	169	30	Bihac	0	38
Andorra			Schladming	1	35	Vitebsk	168	27	Bosanska Krupa	180	38
Avg. Azimuth (°):		149	Uttendorf	4	33	Belgium			Bosanski Brod	178	38
Andorra Le Vella	15	36	Vienna	179	34	Avg. Azimuth (°):		156	Brcko	177	38
						Antwerpen	7	29	Bugojno	179	39
						Bastogne	7	30	Gorazde	177	39

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City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Mostar	178	40	Vidin	173	39	Decin	0	31	Herning	2	25
Prijedor	177	38	Varvara	168	41	Hradec Kralove	179	32	Horsens	1	24
Sarajevo	178	39				Jicin	179	32	Odense	1	26
Tuzla	177	39	Croatia			Jihlava	179	33	Randers	1	25
Zenica	179	38	Avg. Azimuth (°):		170	Karlovy Vary	1	32	Ronne	179	27
Bulgaria			Covici	1	38	Liberec	179	31	Roskilde	0	26
Avg. Azimuth (°):		185	Daruvar	179	37	Olomouc	178	33	Skagen	1	23
Blagoevgrad	173	41	Dubrovnik	178	40	Ostrava	177	33	Skive	2	25
Burgas	168	41	Karlovac	0	37	Pilsen	1	32			
Dimitrovgrad	170	41	Omislalj	1	37	Praha	0	32	Estonia		
Dobrich	168	40	Osijek	177	37	Prerov	178	33	Avg. Azimuth (°):		182
Kurdzhali	170	42	Ploce	1	38	Svitavy	178	33	Haapsalu	172	23
Kyustendil	173	41	Pula	2	37	Tabor	179	32	Karla	175	57
Lom	173	39	Rijeka	180	37	Usti Nad Labem	0	31	Kohtla-Jarve	170	22
Montana	173	40	Sibenik	180	38	Zabreh	178	32	Narva	170	22
Nesebar	168	41	Sisak	179	37	Zlin	178	33	Paide	171	23
Pleven	171	40	Split	180	39				Paldiski	172	23
Popovo	169	40	Vinkovci	177	38	Denmark			Parnu	172	24
Plovdiv	171	41	Zadar	1	38	Avg. Azimuth (°):		165	Rakvere	171	23
Razlog	173	42	Zagreb	180	37	Abenra	2	26	Tallinn	172	23
Rousse	170	39	Czech Republic			Aalborg	1	24	Tartu	171	24
Shumen	169	40	Avg. Azimuth (°):		170	Aarhus	1	25	Torva	171	24
Sliven	176	41	Breclav	178	34	Kobenhavn	180	26	Valga	171	24
Sofia	173	41	Brno	178	33	Esbjerg	3	25	Viljandi	171	24
Stara Zagora	170	41	Ceske Budejovice	0	33	Fredericia	2	25	Vohma	172	23
Troyan	118	88				Guldborg	180	27	Voru	170	24
Varna	168	40				Helsingor	180	25	Faroe Islands		

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City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Avg. Azimuth (°):		147	Lokka	171	14	Auxerre	10	32	Montpellier	12	36
Torshavn	8	16	Mikkeli	171	20	Avignon	11	36	Nancy	7	32
			Muonio	172	14	Belfort	7	33	Nantes	14	30
Finland			Oulu	172	17	Beziers	13	36	Nice	9	37
Avg. Azimuth (°):		183	Parkano	173	20	Biarritz	17	34	Nimes	11	36
Alajarvi	170	17	Pelko-senniemi	171	14	Bordeaux	11	30	Nogent-le-Rotrou	11	30
Enontekio	172	13	Pori	173	20	Bressuire	13	31	Orleans	11	31
Espoo	172	22	Pulju	172	13	Brest	15	28	Orthez	16	34
Heinola	171	21	Rovaniemi	171	15	Caen	12	29	Paris	10	30
Helsinki	172	22	Sodankyla	171	14	Calais	9	32	Perpignan	13	36
Inari	171	13	Suvanto	173	14	Chaumont	11	29	Pontivy	14	29
Ivalo	171	13	Tampere	172	20	Clermont-Ferrand	11	34	Reims	9	30
Jamsa	172	20	Tormanen	170	14	Cognac	13	34	Rennes	13	30
Jyvaskyla	171	19	Turku	173	21	Dijon	12	34	Rouans	14	30
Kaamanen	171	12	Tuusula	172	21	Digne	10	36	Strasbourg	6	32
Karigasniemi	172	12	Vaasa	173	19	Fagnieres	8	31	Toulon	13	32
Karstula	172	19	Varkaus	170	20	Flers	9	29	Toulouse	14	35
Kelloselka	170	15	Vuolijoki	171	17	Grenoble	9	35	Tours	9	34
Kemi	172	16				Le Havre	12	28	Valenciennes	8	29
Kemijarvi	171	15				Le Mans	12	30	Vannes	9	31
Kittila	172	14				Lille	8	29	Verdun	14	36
Kokkola	170	18	France			Limoges	13	33	Versailles	8	32
Kolari	172	14	Avg. Azimuth (°):		152	Lourdes	16	35			
Kotka	173	20	Aix-en-Provence	11	37	Lyon	10	34	Germany		
Kouvola	173	21	Ajaccio	8	39	Marseille	11	37	Avg. Azimuth (°):		163
Kuhmo	170	17	Amiens	9	29	Metz	7	31	Alsfeld	4	30
Kuopio	170	19	Angers	13	31	Millau	12	35	Baden-Baden	6	32
Kuusamo	170	16	Aurillac	12	34	Montélimar	11	35	Berlin	0	29
Lahti	171	17									

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City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	
Bonn	5	30	(am Rhein)			Anafi	169	48	Kea	171	46	
Bremen	3	28		Andros	171	46	Kefalonia	176	46			
Dortmund	5	29		Antikythira	173	48	Kilkis	173	43			
Dresden	0	31		Magdeburg	2	29	Arta	176	45	Kithnos	171	47
Duisburg	5	29		Mainz	5	31	Astipalaia	169	47	Komotini	170	42
Dusseldorf	6	29		Mannheim	5	31	Athens	172	46	Kos	167	47
Erfurt	2	30		Munchen	3	34	Chalkida	172	45	Kozani	175	43
Essen	5	29		Neubrandenburg	180	28	Chios	169	45	Kythira	173	48
Frankfurt (Am Main)	5	31		Nordhausen	2	30	Corfu	177	44	Lamia	174	45
Frankfurt (Oder)	179	30		Nurnberg	2	34	Corinth	173	46	Larissa	174	44
Gera	2	31	Rostock	1	27	Crete	171	49	Lefkas	176	45	
Hamburg	2	28	Schwerin	0	30	Delphi	174	45	Leros	168	47	
Hannover	3	29	Siegen	5	30	Drama	172	42	Lesbos	169	45	
Hannover	3	29	Stuttgart	5	33	Edessa	174	43	Limnos	169	45	
Heidelberg	5	32	Ulm	5	30	Florina	175	43	Livadia	168	47	
Heilbronn	5	32	Wiesbaden	5	31	Folegandros	171	47	Milos	171	47	
Ingolstadt	3	33	Wurzburg	5	31	Grevena	175	44	Monemvassia	173	47	
Kassel	3	30				Ioannina	176	44	Mykonos	170	47	
Kiel	2	27	Greece			Ithaka	176	45	Nafplio	173	46	
Koblenz	5	30	Avg. Azimuth (°):		181	Kalamata	174	47	Naxos	170	47	
Koln	6	30	Aegina	173	46	Kalymnos	168	47	Nisos Ikaria	169	46	
Langenberg	5	29	Agios Efstratios	168	47	Karitsa	176	44	Parga	176	44	
Leipzig	1	30	Alexandroupolis	170	43	Karpathos	167	49	Paros	170	47	
Leverkusen	5	30	Alonissos	172	45	Karpenision	175	45	Patmos	169	47	
Lubeck	2	27	Amorgos	169	47	Kastoria	175	43	Patras	174	44	
Ludwigshafen	5	31				Katerini	174	43	Paximadhi	171	46	
						Kavala	171	43	Pilion	172	45	
						Kea	171	46	Pirgos	174	43	

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City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Polygyros	173	43	Avg. Azimuth (°):		174	Keflavik	10	9	Sligo	13	22
Preveza	176	45	Budapest	177	35	Raufarhofn	8	9	Tralee	16	23
Rhodos	166	48	Debrecen	174	35	Reykjavik	12	9	Tullamore	14	23
Salamis	173	46	Dunaujvaros	177	36	Seydisfjordur	8	11	Waterford	14	24
Samos	168	46	Eger	178	36	Siglufjordur	9	9	Wexford	14	24
Samothraki	170	43	Gyor	178	35	Stykkisholmus	11	8	Wicklow	13	24
Santorini	170	48	Keckskemet	178	35	Svalbardh	8	10			
Serifos	171	47	Miskolc	175	35	Vestmannaeyjar	12	10	Italy		
Serres	172	43	Nyiregyhaza	174	35	Vik	9	11	Avg. Azimuth (°):		166
Sifnos	171	47	Pecs	178	37				Agrigento	5	45
Sikinos	170	47	Szeged	176	37				Ancona	3	39
Simia	173	45	Szekszard	177	36	Ireland			Aosta	8	35
Skiathos	173	45	Szombathely	179	35	Avg. Azimuth (°):		142	Bari	0	42
Skopelos	169	45	Veszprem	178	36	Carrick	14	23	Bologna	5	37
Sparta	174	47	Zalaegerszeg	179	36	Castlebar	14	22	Brindisi	179	43
Spetsai	173	47				Cork	15	24	Cagliari	9	42
Syros	171	47	Iceland			Dublin	13	23	Caltagirone	4	46
Thasos	171	43	Avg. Azimuth (°):		135	Dundalk	12	23	Campobasso	2	41
Tilos	168	47	Akureyri	9	9	Galway	14	22	Catanzaro	1	44
Tinos	170	46	Djupivogur	9	11	Kilkenny	14	23	Cosenza	1	44
Trikala	175	44	Drangsnæs	10	8	Killarney	14	24	Firenze	5	38
Tripolis	174	47	Grimsey	10	8	Lifford	15	23	Genova	7	37
Veria	174	47	Hofn	11	8	Limerick	13	24	L'Aquila	3	40
Volos	173	44	Holmavik	10	8	Longford	14	23	Leonforte	4	45
Xanthi	171	42	Husavik	8	9	Monaghan	13	22	Lipari	3	45
Ydra	173	47	Isafjordur	11	8	Mullingar	13	21	Milano	4	39
Zakynthos	176	46				Navan	13	23	Milazzo	3	45
Hungary						Shannon	12	21	Napoli	3	42

	1	2		1	2		1	2		1	2
City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Palermo	5	45	Liechtenstein			Troisvierges	7	30	Veles	174	42
Parma	5	37	Avg. Azimuth (°):		161				Vinica	174	42
Perugia	4	39	Vaduz	5	34	Macedonia					
Potenza	1	42				Avg. Azimuth (°):		177	Moldava		
Roma	5	40	Lithuania			Bitola	175	43	Avg. Azimuth (°):		187
Trento	4	36	Avg. Azimuth (°):		181	Debar	176	42	Beltsy	169	35
Torino	8	36	Alytus	172	28	Delcevo	173	42	Chisinau	168	36
Trieste	2	37	Birzai	172	26	Gevgelija	174	42	Kirsovo	168	37
Venezia	3	37	Dukstas	171	27	Gostivar	175	42			
Latvia			Juozapine	171	28	Kavadarci	174	42	Monaco		
Avg. Azimuth (°):		182	Kaunas	172	27	Kicevo	175	42	Avg. Azimuth (°):		157
Aluksne	170	25	Kelme	173	27	Kocani	174	42	Monaco	9	37
Broceni	173	25	Klaipeda	174	26	Kriva Palanka	174	41			
Dagda	170	26	Mazeikiai	173	26	Kumanovo	174	41	Norway		
Daugavpils	170	26	Marijampole	173	28	Negotino	175	42	Avg. Azimuth (°):		169
Gulbene	171	24	Panevezys	172	26	Ohrid	176	42	Alesund	1	18
Jekabpils	171	26	Siauliai	173	26	Prilep	175	42	Bergen	3	20
Jelgava	172	25	Svencioneljai	171	27	Probištíp {Probistip}	174	41	Bodo	176	14
Liepaja	174	26	Taurage	173	27	Radoviš {Radovis}	174	42	Floro	2	19
Madona	171	25	Ukmerge	172	27	Resen (Resno)	175	42	Hammerfest	172	11
Preili	170	26	Utena	171	27				Harstad	175	13
Rezekne	170	25	Vilnius	171	28	Skopje	175	42	Kristiansund	0	18
Riga	172	25				Stip	174	42	Lillehammer	180	20
Mazsalaca	172	24	Luxembourg			Struga	176	42	Mo I Rana	177	15
Valmiera	171	25	Avg. Azimuth (°):		158	Strumica	173	42	Molde	1	18
Ventspils	174	25	Betzdorf	7	31	Sveti Nikole	174	42	Narvik	175	13
			Dudelage	7	31	Tetovo	175	41	Nordkapp	172	10
			Luxemburg	7	31				Oslo	180	21

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City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Stavanger	3	21	Zamosc	175	30	Portalegre	25	34	Brasov	170	37
Tromso	174	12				Porto	26	34	Bucuresti	170	39
Trondheim	179	18	Portugal			Queluz	26	34	Buzau	168	38
Vardo	170	11	Avg. Azimuth (°):		135	Rio de Mouro	27	34	Calarasi	172	37
			Algueirao	26	34	Rio Tinto	24	32	Cluj-Napoca	172	36
Poland			Amadora	26	34	Sao Domingos de Rana	27	34	Constanta	167	39
Avg. Azimuth (°):		174	Amora	27	34	Sabugal	23	34	Craiova	172	39
Bialystok	173	29	Aveiro	24	33	Santarem	25	33	Deva	173	37
Bydgoszcz	177	29	Beja	26	35	Setubal	26	34	Drobeta-Turnu Severin	173	39
Czestochowa	176	32	Braga	23	32	Sines	27	35	Focşani	169	37
Elblag	175	28	Braganca	22	33	Soure	25	33	Galati	173	38
Gdansk	176	28	Caldas da Rainha	26	33	Viana do Castelo	23	32	Giurgiu	170	39
Gizycko	174	28	Castelo Branco	24	34	Vila Nova de Gaia	23	32	Lasi	171	37
Gorzow Wielkopolski	179	29	Coimbra	25	33	Viseu	24	33	Miercurea-Ciuc	170	37
Katowice	176	32	Corroios	27	34				Oradea	174	36
Kielce	175	32	Evora	26	33	Romania			Piatra Neamt	170	36
Koszalin	178	28	Faro	27	36	Avg. Azimuth (°):		182	Piteşti	171	38
Krakow	176	31	Funchal	26	34	Alexandria	171	39	Ploiesti	170	38
Lodz	178	30	Guarda	23	34	Arad	175	37	Ramnicu Valcea	172	38
Lublin	173	31	Lagos	28	35	Bacau	169	36	Reşiţa	174	38
Olsztyn	175	29	Lisboa	26	34	Baia Mare	172	35	Satu Mare	171	37
Pila	175	31	Loures	26	34	Bistrita	172	36	Sfântu Gheorghe	166	38
Poznan	178	30	Macedo de Cavaleiros	22	33	Botosani	170	35			
Radom	174	31	Nazare	26	33	Braila	168	38	Sibiu	172	37
Szczecin	179	28	Odivelas	26	34						
Ustka	177	27									
Warsaw	174	30									
Wroclaw	178	31									

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City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Slatina	171	38	Subotica	175	39	Zvolen	176	34			
Slobozia	170	38	Uzice	176	39				Spain		
Suceava	170	35	Zrenjanin	176	38	Slovenia			Avg. Azimuth (°):		138
Targociste	171	38				Avg. Azimuth (°):		168	Albacete	20	38
Targu Jiu	173	38	Slovakia			Brezice	0	37	Alicante	20	39
Târgu Mureş	171	36	Avg. Azimuth (°):		174	Celje	0	36	Anadon	18	36
Timisoara	175	37	Banska Bystrica	176	34	Crnomelj	1	37	Aragon	18	36
Tulcea	167	38	Bratislava	178	34	Domzale	1	36	Arrecife	40	37
Vaslui	169	36	Humenne	174	34	Jesenice	1	36	Asturias	20	32
Zalău	173	36	Komaró	178	34	Kamnik	1	36	Avila	21	35
Serbia						Koper	2	37	Barcelona	15	37
Avg. Azimuth (°):		176	Kosice	175	34	Kranj	1	36	Bilbao	18	33
Beograd	176	38	Lucenec	176	34	Krsko	0	37	Burgos	19	34
Bor	174	39	Levice	177	34	Ljubljana	1	36	Cadiz	26	37
Jabukovac	174	39	Martin	176	34	Maribor	180	36	Cantabria	19	33
Kragujevac	175	39	Michalovce	174	34	Murska Sobota	179	36	Castello de la Plana	18	38
Nis	176	40	Nitra	177	34	Nova Gorica	2	36	Ceuta	26	39
Novi Pazar	176	40	Nove Zamky	177	35	Novo Mesto	1	37	Cordoba	24	37
Novi Sad	176	38	Povazska Bystrica	177	33	Piran	2	37	Galicia	22	31
Pancevo	175	38	Poprad	175	33	Ptuj	180	36	Granada	24	38
Pirot	173	40	Presov	174	34	Sentjur	0	36	Ibiza	18	39
Popovac	175	39	Prievidza	177	34	Skofja Loka	1	36			
Pristina	175	41	Spisska Nova Ves	175	34	Slovenska Bistrica	180	36	Islas Baleares	16	40
Prizren	176	41	Trencin	177	34	Trebnje	1	37	La Coruna	42	36
Praniani	176	39	Trnava	178	34	Velenje	0	36	Las Palmas	42	36
Raska	176	40	Zilina	177	33	Zalec	0	36	Madrid	21	36
Smederevo	175	38							Malaga	25	38

	1	2		1	2		1	2		1	2
City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Marbella	25	38				Orebro	177	22	Biel	7	34
Merida	24	35	Sweden			Ostersund	177	18	Brig	7	35
Ourense	22	32	Avg. Azimuth (°):		172	Pitea	173	16	Chur	5	34
Oviedo	20	32	Boden	173	16	Skelleftea	174	17	Frauenfeld	5	34
Pamplona	17	34	Eksjo	178	24				Fribourg	7	34
Puerto del Rosario	41	37	Eskilstuna	177	22	Skovde	178	23	Geneva	9	34
Ronda	25	38	Falun	177	21	Sodertalje	176	23	Interlaken	7	34
Salamanca	22	34	Gallivare	174	14	Solleftea	176	18	Lausanne	8	34
San Sebastian	17	34	Gavle	176	21	Stockholm	178	19	Locarno	6	35
San Sebastian de la Gomera	43	35	Gavlen	175	18	Stromstad	180	22	Lucerne	6	34
Santander	18	33	Goteborg	180	24	Sundsvall	176	19	Lugano	6	35
Santa Cruz de La Palma	43	34	Halmstad	179	25	Taby	176	22	Montreux	8	34
Santa Cruz de Tenerife	42	35	Harnosand	175	19	Trollhattan	179	23	Olten	6	33
Santiago de Compostela	22	31	Helsingborg	180	25	Tumba	176	23	Porrentruy	7	33
Sevilla	25	37	Hudiksvall	176	20	Ulricehamn	179	24	Schaffhausen	6	33
Tarragona	16	37	Jonkoping	178	24	Umea	174	18	Sion	7	34
Toledo	21	36	Kalmar	177	25	Upplands Vasby	176	22	St. Gallen	5	34
Valencia	19	38	Karesuando	173	13	Uppsala	176	22	St. Moritz	5	35
Valladolid	21	34	Karlstad	178	22	Vasteras	175	18	Thun	7	34
Valverde	26	36	Kiruna	174	14	Vaxjo	178	25	Uri	6	34
Vigo	23	31	Kramfors	175	19	Visby	176	24	Vaud	8	34
Zaragoza	17	36	Kristianstrad	179	26				Winterthur	6	34
			Linkoping	177	23				Zurich	6	34
			Lulea	173	16	Switzerland					
			Lund	176	22	Avg. Azimuth (°):		159			
			Malmo	177	24	The Netherlands					
			Mora	177	21	Andermatt	6	34	Avg. Azimuth (°): 158		
			Murjek	174	15	Basel	7	33	Amsterdam	6	28
			Norrkoping	177	23	Bern	7	34			

	1	2		1	2		1	2		1	2
City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)	City Island	Feed Scale (°)	Elevation (°)
Enschede	5	28	Glasgow	10	22	Peterborough	9	21	Ivano-Frankivsk	171	34
Groningen	5	27	Hull	9	25	Portsmouth	10	24	Kharkov	162	31
Maastricht	6	29	Inverness	9	20	Saint Andrews	9	22	Kherson	164	36
s-Hertogenbosch	6	28	Ipswich	9	27	Southampton	11	27	Kyiv	167	32
Zwolle	5	28	Kirkwall	8	19	Stornoway	10	19	Kirovohrad	165	34
			Liverpool	11	24	Sunderland	10	23	loehansk	159	32
			London	10	27	Swansea	13	26	Loetsk	171	32
United Kingdom			Manchester	10	24	Thurso	8	19	Lviv	172	33
Avg. Azimuth (°):	148		Middlesbrough	9	24	York	9	24	Odessa	166	36
Aberdeen	8	21	Newcastle	12	25				Poltava	160	31
Ayr	10	22	Norwich	9	26				Rivne	167	36
Birmingham	11	26	Northampton	10	26	Ukraine			Simferopol	162	37
Blackpool	11	24	Nottingham	10	25	Avg. Azimuth (°):	191		Soemy	163	31
Brighton	11	28	Oldham	10	24	Dnjepropetrovsk	162	33	Ternopil	171	33
Bristol	12	26	Oxford	11	26	Donetsk	160	33	Tjernihiv	166	31
Cardiff	12	26	Perth	9	21				Vinnysja	168	33
Dumfries	10	23							Zjytomyr	168	32
Dundee	9	22									
Edinburgh	9	22									
Fort William	10	21									