

# Install Keys and Beam Maps

The Exede network consists of multiple “spot beams” that each cover a specific geographic region. Each spot beam has a specific set of RF parameters that prevent interference with the neighboring spot beams. The modem must use the correct RF configuration in order to connect to its closest spot beam.

The RF configurations are set by entering in a specific installation key when pointing the dish. To determine the correct installation key for your location, use the network beam maps in this document. There are two different network maps, the first map with the orange shaded regions, are spot beams for the ViaSa-1 coverage area. The highest terminal speeds will be achieved under these beams. The other map is for the Augmentation Beam coverage area. While these beams provide high speed service, if you have a choice in regions where the ViaSat-1 and Augmentation beams overlap, one will want to select the beam key for the ViaSat-1 beam.

The beam maps are overlaid with iso-elevation lines. These lines are the approximate starting elevation, that the installer needs to use, for initial pointing of the reflector.

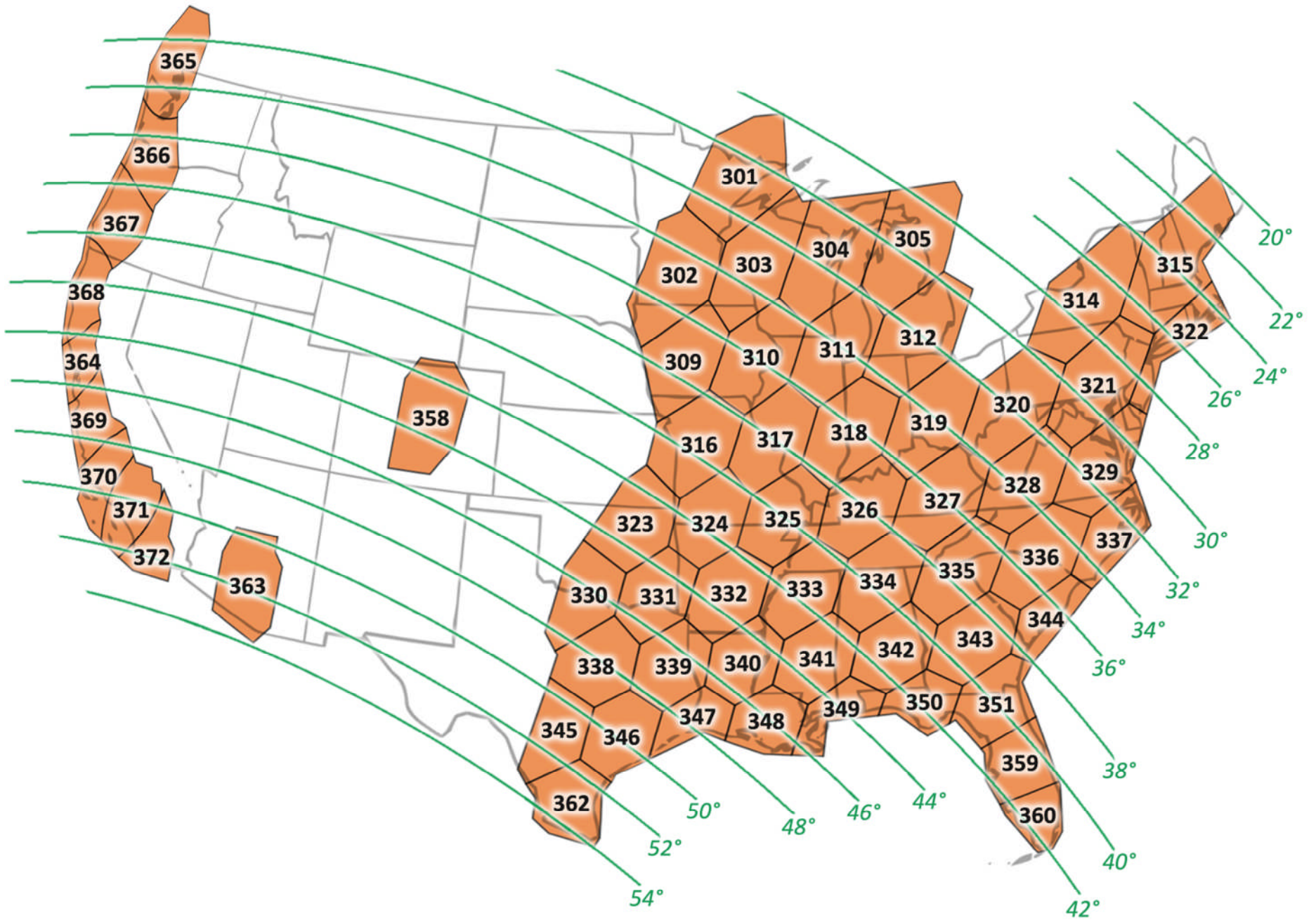
Step-1, Look at the appropriate beam map and determine which beam covers the area where the terminal will be installed.

Step-2, Look up the install key based on beam number from the beam key list. Make note of this installation key for entry into the modem later.

Step-3, Note the terminal location and estimate the starting elevation as determined by the iso-elevation lines on the map.

Example: Assume an installation in the town of Phoenix Az, Looking at the ViaSat-1 beam map, we see that Phoenix is under beam 363 and at an iso-elevation line around 51-degrees. Looking up beam-363 on the install key list shows an install key of JBGm-TQF2-9PMH-3LGW. This install key will be used in step 5 of the pointing job aid located at <http://www.viasat.com/exede-enterprise-installer-documents>

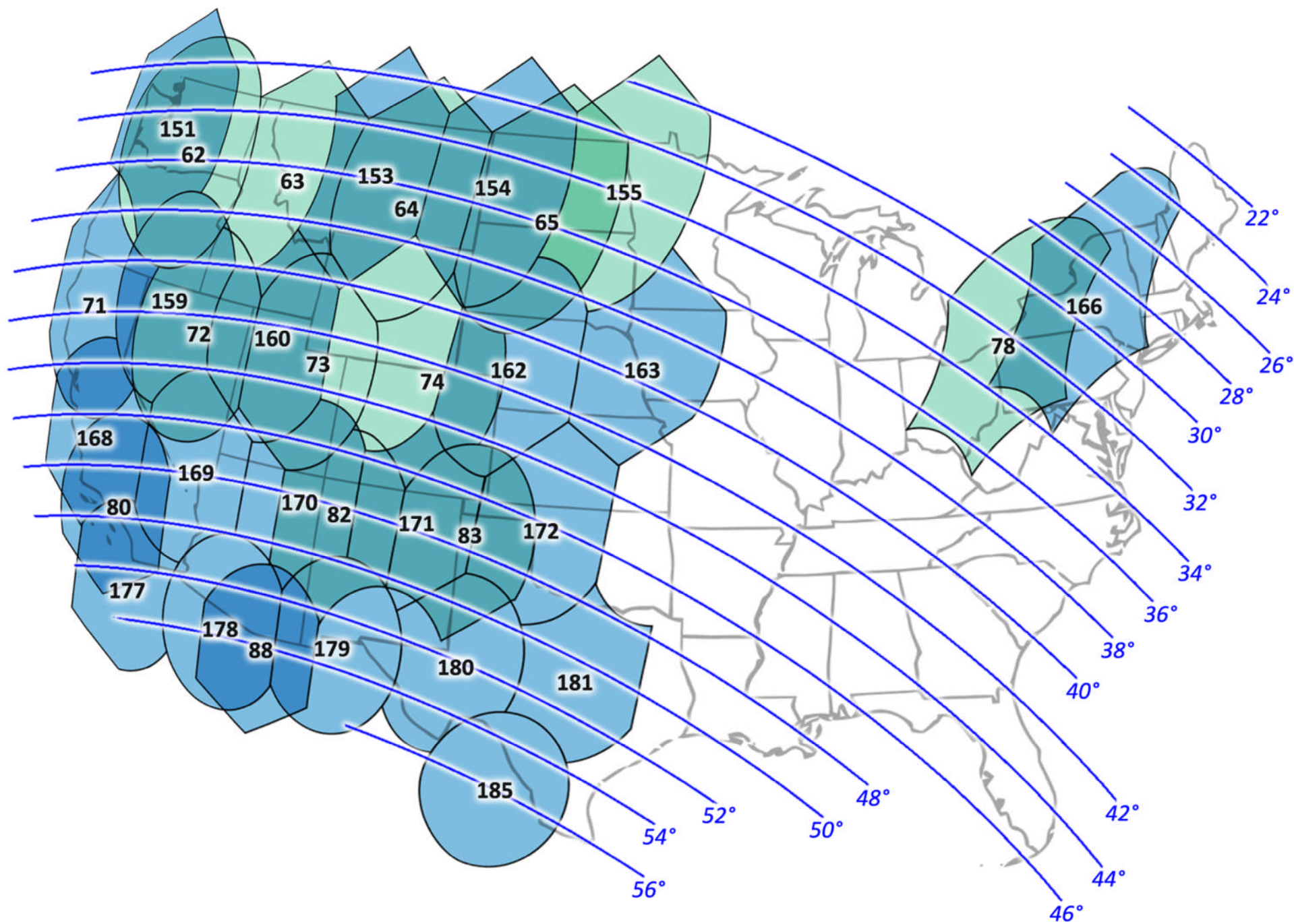
# Beam Maps



Beam #	Beam Key	City, State (Position in Beam)	Course Elevation	Beam #	Beam Key	City, State (Position in Beam)	Course Elevation
301	KNQ4-VS9P-4CH8-4QM9	Ely, MN (Top)	30.5	316	WGRL-KB92-XQMP-T28W	Kirksville, MO (Top)	38
		Duluth, MN (Center)	31.7			Kansas City, MO (Middle)	40
		Hinckley, MN (Bottom)	32.7			Fort Scott, KS (Bottom)	41.2
302	NWXF-P5PR-5DJF-KRC5	Saint Cloud, MN (Top)	33.6	317	4WM9-WCDV-C6DF-WTQ4	Lincoln, IL (Top)	36.5
		Mankato, MN (Center)	34.9			St. Louis, MO (Middle)	38.3
		Sioux City, IA (Bottom)	37.4			Rolla, MO (Bottom)	39.7
303	M37L-DDT7-LRVP-CGTQ	Mercer, WI (Top)	31.4	318	DVMT-9JP8-55JX-WLCN	Kokomo, IN (Top)	34.6
		Eau Claire, WI (Middle)	33.3			Bloomington, IN (Middle)	35.9
		Mason City, IA (Bottom)	35.5			Mt. Vernon, IL (Bottom)	37.9
304	RGTN-CNC4-7FKM-V5XT	Marquette, MI (Top)	30	319	9S73-72JM-3WV6-S58C	Mansfield, OH (Top)	32.3
		Green Bay, WI (Middle)	32			Dayton, OH (Middle)	34.1
		Madison, WI (Bottom)	34			Louisville, KY (Bottom)	36.2
305	5XPC-PPGX-B3MG-XXH3	Drummond Island, MI (Top)	28.7	320	N3V5-842J-DRV7-GLBG	Altoona, PA (Top)	30
		Cheboygan, MI (Middle)	29.4			Wheeling, WV (Middle)	31.8
		Grand Rapids, MI (Bottom)	32.2			Summit, KY (Bottom)	34.2
309	GK68-43VK-9236-DXSD	Iowa Falls, IA (Top)	36.2	321	4QDR-PXGF-KJ9V-RNHL	Scranton, PA (Top)	27.7
		Des Moines, IA (Middle)	37.2			Harrisburg, PA (Middle)	29.2
		Maryville, MO (Bottom)	38.9			Broadway, VA (Bottom)	31.6
310	QV5K-FS87-FQTN-7K8Q	Dodgeville, WI (Top)	34.4	322	WFQD-Q8GQ-49RG-C6G7	Providence, RI (Top)	24.7
		Davenport, IA (Middle)	35.9			New York, NY (Middle)	27.1
		Kahoka, MO (Bottom)	37.4			Lower Township, NJ (Bottom)	28.8
311	4RLG-DJQS-76HD-3TD6	Grand Haven, MI (Top)	32.4	323	79X9-NBVV-L7TD-XS95	Parsons, KS (Top)	41.9
		Chicago, IL (Middle)	34.2			Tulsa, OK (Middle)	43.4
		Peoria, IL (Bottom)	36.2			Oklahoma City, OK (Bottom)	44.8
312	7V4C-LQFW-9F2G-NNG2	Bad Axe, MI (Top)	30.2	324	D9F6-VBBJ-F6S7-V7MG	Lebanon, MO (Top)	40.4
		Ann Arbor, MI (Middle)	31.8			Harrison, AR (Middle)	42
		Marion, IN (Bottom)	34.2			Fort Smith, AR (Bottom)	43.4
314	SD84-VJXN-W267-L4C9	Burlington, NY (Top)	26.5	325	Q29Q-Q95D-FWWT-LC6K	Marion, IL (Top)	38.4
		Rochester, NY (Middle)	27.7			Poplar Bluff, MO (Middle)	40.1
		Kersey, PA (Bottom)	29.5			Newport, AR (Bottom)	41.6
315	FHCX-L2TC-3GDT-CJ5N	Bangor, ME (Top)	21.2	326	SFTD-SP6R-PD9G-7278	Radcliff, KY (Top)	36.6
		Manchester, NH (Middle)	24			Nashville, TN (Middle)	38.5
		Poughkeepsie, NY (Bottom)	26.4			Humboldt, TN (Bottom)	40

Beam #	Beam Key	City, State (Position in Beam)	Course Elevation	Beam #	Beam Key	City, State (Position in Beam)	Course Elevation
327	DJDH-T2N5-9L4M-CP2S	Grayson, KY (Top)	34.5	338	8DQB-28RW-JVM9-73Q2	Dallas, TX (Top)	47
		Corbin, KY (Middle)	36.2			Waco, TX (Middle)	48.4
		Cookeville, TN (Bottom)	37.7			Round Rock, TX (Bottom)	49.7
328	G66N-33F3-7NPN-55DX	Harrisonburg, VA (Top)	31.8	339	MNMP-8985-SCSK-FVWV	Shreveport, LA (Top)	45.7
		Blacksburg, VA (Middle)	33.7			Jacksonville, TX (Middle)	47
		Johnson City, TN (Bottom)	35.6			Livingston, TX (Bottom)	48
329	KNC9-R5TT-D48D-K294	Milford, DE (Top)	29.2	340	32PS-J4NG-SXQQ-9G9J	Rolling Fork, MS (Top)	43.7
		Richmond, VA (Middle)	31.5			Natchez, MS (Middle)	45.2
		Rocky Mt, NC (Bottom)	32.8			Oakdale, LA (Bottom)	46.6
330	WDW6-XSLJ-D7B7-NPWG	Norman, OK(Top)	45	341	X4B7-DF4K-KV94-X77D	Macon, MS (Top)	42.1
		Wichita Falls, TX (Middle)	46.7			Jackson, MS (Middle)	43.8
		Breckenridge, TX (Bottom)	48.1			McComb, MS (Bottom)	44.8
331	B6RQ-SRFD-CFMT-DTGK	Pocola, OK (Top)	43.6	342	3LSK-ST78-NMVH-7T5R	LaGrange, GA (Top)	39.8
		Hugo, OK (Middle)	45.2			Montgomery, AL (Middle)	41.2
		McKinney, TX (Bottom)	46.6			Brewton, AL (Bottom)	42.7
332	53GB-999W-BFX9-6482	Searcy, AR (Top)	42.1	343	RCQF-5RWR-T5QB-4XP5	Augusta, GA (Top)	37.4
		Pine Bluff, AR(Middle)	43.2			Warner Robins, GA (Middle)	39.2
		Texarkana, TX (Bottom)	45			Albany, GA (Bottom)	40.3
333	JCCP-HBP4-KBCL-DWV	Jackson, TN (Top)	40.2	344	8QRC-QXDX-JB39-F6D3	Myrtle Beach, SC (Top)	35.1
		Oxford, MS (Middle)	41.6			Charleston, SC (Middle)	36.4
		Greenville, MS (Bottom)	43.4			Ludowici, GA (Bottom)	38.5
334	WSX3-CTDN-27J3-T9N8	Dunlap, TN (Top)	38.3	345	HH9G-7B9S-RLFb-TG36	Austin, TX (Top)	49.9
		Decatur, AL (Middle)	39.9			San Antonio, TX (Middle)	51.1
		Tuscaloosa, AL (Bottom)	41.4			Encinal, TX (Bottom)	52.9
335	LN7X-DK6C-PM7T-MKKM	Burnsville, NC (Top)	35.9	346	L58T-LLXG-R29Q-3XKJ	College Station, TX (Top)	48.8
		Gainesville, GA (Middle)	38.1			El Campo, TX (Middle)	50.1
		Newnan, GA (Bottom)	39.4			Beeville, TX (Bottom)	51.7
336	QQ6S-TSCG-RLTQ-SSWH	Durham, NC (Top)	33.5	347	J8S7-GWDK-HDX3-QPHD	DeRidder, LA (Top)	46.9
		Charlotte, NC (Middle)	35.4			Beaumont, TX (Middle)	48.1
		Aiken, SC (Bottom)	37.2			Freeport, TX (Bottom)	49.9
337	VSF8-C5GL-PHL4-6KJF	Elizabeth City, NC (Top)	27.3	348	8D4Q-KS9D-4MWS-BD7K	Kentwood, LA (Top)	45.1
		Greenville, NC (Middle)	32.7			Baton Rouge, LA (Middle)	45.9
		Wilmington, NC (Bottom)	34			Morgan City, LA (Bottom)	46.6

Beam #	Beam Key	City, State (Position in Beam)	Course Elevation	Beam #	Beam Key	City, State (Position in Beam)	Course Elevation
349	KHC6-35DJ-8XC3-M4RG	Atmore, AL (Top)	43.1	367	HQHC-BGTW-6D9H-PNT2	Eugene, OR (Top)	38.6
		Gulfport, MS (Middle)	44.7			Grants Pass, OR(Middle)	40.3
		Buras, LA (Bottom)	45.8			Montague, CA (Bottom)	41.2
350	F9MH-GDF5-CJHL-SJMR	Blakely, GA (Top)	41	368	WN8T-KXWG-VS6X-CFLJ	Crescent City, CA (Top)	40.9
		Tallahassee, FL (Middle)	41.2			Red Bluff, CA (Middle)	42.9
		Panama City, FL (Bottom)	42.4			Cloverdale, CA (Bottom)	44.3
351	2W7F-D8SQ-WF8B-CLV7	Jessup, GA (Top)	38.7	369	WDR7-WPFK-2DD6-JQGD	Salinas, CA (Top)	46.9
		Jacksonville, FL (Middle)	39.4			Paso Robles, CA (Middle)	48.2
		Ocala, FL (Bottom)	40.5			Santa Maria, CA (Bottom)	49
358	LD5R-RWVD-LNBS-36SK	Cheyenne, WY (Top)	41.3	370	C8SC-2DDX-GGQG-FLD3	Porterville, CA (Top)	47.9
		Denver, CO (Middle)	42.8			Bakersfield, CA (Middle)	48.7
		Pueblo, CO (Bottom)	44.3			Oxnard, CA (Bottom)	50
359	6JDT-SVX8-C6FQ-N5PN	Daytona Beach, FL (Top)	39.6	371	C8SC-2DDX-GGQG-FLD3	Barstow, CA (Top)	49.4
		Lakeland, FL (Middle)	41.1			San Bernardino, CA (Middle)	50.3
		Port Charlotte, FL (Bottom)	41.9			San Clemente, CA (Bottom)	51
360	TPFR-JVFF-S62S-45CL	Jupiter, FL (Top)	40.3	372	C8SC-2DDX-GGQG-FLD3	Yucca Valley, CA (Top)	50.3
		Miami, FL (Middle)	41.1			Temecula, CA (Middle)	51
		Key West, FL (Bottom)	43.1			Imperial Beach, CA (Bottom)	52
362	3JVT-S7B9-CT4Q-NF2P	Sinton, TX (Top)	51.9	62	48HR-TH7H-CKSR-CBFL	Spokane, WA (Top)	34.9
		Kingsville, TX (Middle)	52.6			Kennewick, WA (Middle)	36.2
		Harlingen, TX (Bottom)	53.8			Baker City, OR (Bottom)	38
363	JBGM-TQF2-9PMH-3LGW	Payson, AZ (Top)	50	63	2JGW-SC69-JTGV-XWGM	Great Falls, MT (Top)	35.4
		Phoenix, AZ (Middle)	51			Missoula, MT (Middle)	36
		Tucson, AZ (Bottom)	52.2			Howe, ID (Bottom)	39.5
364	4S5W-QCKB-XHKV-NXVL	Williams, CA (Top)	44.1	64	9MFP-DJ53-3P4M-89CV	Havre, MT (Top)	34.3
		San Francisco, CA (Middle)	45.5			Billings, MT (Middle)	37.2
		Monterey, CA (Bottom)	46.9			Casper, WY (Bottom)	40.3
365	SFPF-3QXR-7PCF-V6P5	Bellingham, WA (Top)	33.6	65	BFSB-2LRT-M6R9-TBR2	Williston, ND (Top)	34.2
		Seattle, WA (Middle)	34.8			Bismarck, ND (Middle)	35.2
		Olympia, WA (Bottom)	35.4			Rapid City, SD (Bottom)	38.6
366	3HPF-4RXR-6NCF-88P5	Castle Rock, WA (Top)	36.2	72	4M76-V7SK-5SK7-S6SG	Boise, ID (Top)	39.4
		Portland, OR (Middle)	37.1			Elko, NV (Middle)	42.6
		Corvallis, OR (Bottom)	38			Goldfield, NV (Bottom)	45.8



<b>Beam Id</b>	<b>Install Key</b>	<b>Beam Id</b>	<b>Install Key</b>
62	48HR-TH7H-CKSR-CBFL	160	6K9J-6JW7-38PK-4JNS
63	2JGW-SC69-JTGV-XWGM	162	PPT9-6GLX-F3WB-SXJ4
64	9MFP-DJ53-3P4M-89CV	163	852J-M6N7-4T6L-2B8S
65	BFSB-2LRT-M6R9-TBR2	166	3G3D-WQNR-6K7H-J5D7
71	V7RT-LS7C-5V3X-ND5P	167	F52F-634T-BB6G-2M58
72	4M76-V7SK-5SK7-S6SG	168	SWKS-NVJD-SCRQ-P5DJ
73	5RP8-DPGW-LKQC-V644	169	H66D-GNRR-836H-2897
74	BJH9-L2TW-TF2C-FTS4	170	4H9V-GV9C-NMQW-4MDP
78	HH3M-GV24-W7SP-223W	171	TXQB-F8QT-PWS9-NSQ2
80	NJCF-MDQR-4V2G-65H8	172	V59N-D644-4KFN-X2BX
81	VG38-8LDJ-TDR5-6BXD	176	PG52-GRNP-HQB5-8GJB
82	4CTL-NTV3-MRNP-P35W	177	RW4P-FNR2-W7NM-G8RT
83	S7C7-NLMH-HQS6-J22D	178	797P-74B3-TX8M-L3HV
85	4BJW-JJ79-977V-HK9M	179	BNXF-XKPQ-9SCF-6WB5
88	W84P-XLB2-HKKM-6VPT	180	9PGS-2WRD-VF3R-WWRH
151	3BSD-XXGS-HNDG-QD68	181	KQKK-V5C6-KDJJ-4VNO
153	54M5-LS9K-6KF8-9SSF	184	6R9B-25DW-XMKB-DDX4
154	VBDD-J8GS-5H2H-DK47	185	BT5C-V4PT-TNH9-QRH2
155	CB4D-P2QR-BV9H-JPD7	186	8LFH-JR47-J7LL-GDTR
159	HM3G-GGDQ-7QJF-6BF5		