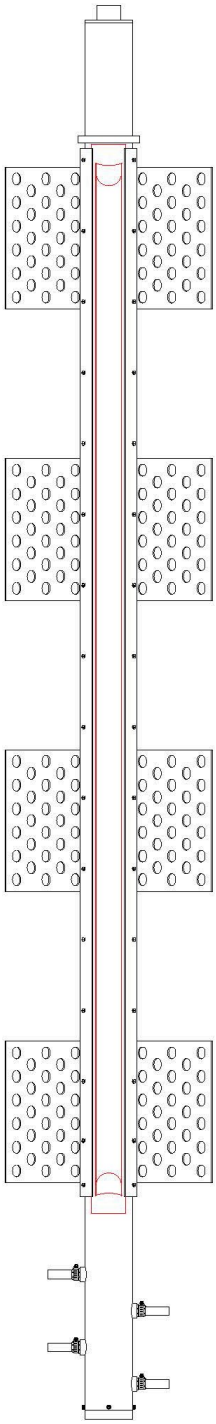
SYSTEMS WITH RELIABILITY, LP.

Broadcast Antenna Systems & Transmission Systems

Eclipse Digital Series Specifications



SYSTEMS WITH RELIABILITY, LP.

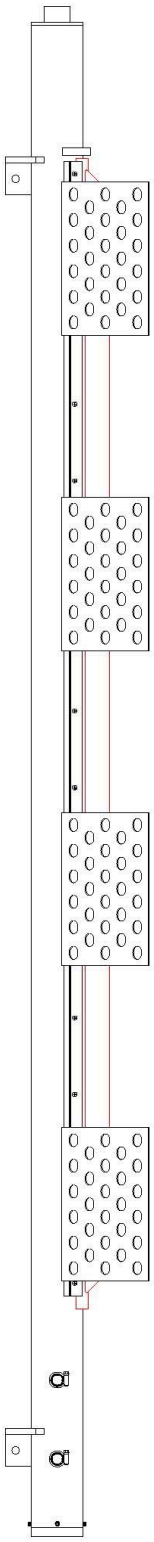
619 Industrial Park Rd. Ebensburg, PA 15931 • Phone: 814-472-5436 • Fax: 814-472-5552 • Web: www.swr-rf.com

ECLIPSE D SERIES

DTV SIDE MOUNT UHF ANTENNAS

Product Specifications:

Frequency Range	UHF Channels 14-69
Polarization	Circular, Horizontal, Elliptical
Power Rating	10 kW
System Input LPTV	1 5/8” EIA Standard
Gain	Referenced to half-wave dipole
VSWR	1.1:1 > across one channel



Features:

- **AVAILABLE IN 10 STANDARD HORIZONTAL PATTERNS**
  Custom patterns are also available.
- **ANTENNA DESIGNS ON FILE WITH FCC**
  Antenna designs on file with the Federal Communications Commission to facilitate the application process.
- **BEAM TILT AND NULL FILL STANDARD**
  All models come standard with beam tilt and 10% minimum null fill.
- **RUGGED CONSTRUCTION**
  Each antenna is constructed of durable, lightweight aluminum which provides excellent corrosion resistance and optimal mechanical properties
- **PRESSURIZATION IS NOT REQUIRED**
- **GROUNDED**
  Internal components are firmly grounded for lightning protection..
- **INPUT FINE MATCHER INCLUDED**
- **STANDARD MOUNTING BRACKETS**
  Fits 1” to 4” tower leg or pipe. Supplied with antenna.
- **WARRANTY**
  2-year limited warranty on defects and workmanship to the original purchaser.

Notes:

1) SWR, LP maintains a continuous program of product improvement and therefore reserves the right to change specifications without notice.

Eclipse Digital Series
Electrical and Mechanical Specifications

8 Bay Mechanical Specifications			
Channel	Height (ft)	Weight (lbs)	Windload (lbs)
14 - 27	18.3 - 15.9	75 - 65	285 - 247
28 - 41	15.7 - 13.9	65 - 57	244 - 216
42 - 55	13.8 - 12.4	57 - 51	214 - 192
56 - 69	12.3 - 11.2	51 - 46	191 - 174

8 Bay Electrical Specifications		
Model	Power Gain	dB Gain
SWED(L)(M)8OI	14.743	11.686
SWED(L)(M)8EC	14.028	11.47
SWED(L)(M)8MC	16.149	12.081
SWED(L)(M)8NC	30.056	14.779
SWED(L)(M)8WC	13.450	11.287
SWED(L)(M)8ML	23.003	13.618
SWED(L)(M)8WL	20.934	13.209
SWED(L)(M)8SL	42.249	16.258
SWED(L)(M)8BF	24.038	13.809
SWED(L)(M)8PN	20.201	13.054

12 Bay Mechanical Specifications			
Channel	Height (ft)	Weight (lbs)	Windload (lbs)
14 - 27	26.6 - 23.0	100 - 94	417 - 360
28 - 41	22.7 - 20.1	93 - 82	356 - 313
42 - 55	19.9 - 17.8	82 - 73	311 - 278
56 - 69	17.7 - 16.1	73 - 66	276 - 250

12 Bay Electrical Specifications		
Model	Power Gain	dB Gain
SWED(L)(M)12OI	22.479	13.518
SWED(L)(M)12EC	21.514	13.327
SWED(L)(M)12MC	24.767	13.939
SWED(L)(M)12NC	46.095	16.637
SWED(L)(M)12WC	20.628	13.145
SWED(L)(M)12ML	35.279	15.475
SWED(L)(M)12WL	32.105	15.066
SWED(L)(M)12SL	64.793	18.115
SWED(L)(M)12BF	36.866	15.666
SWED(L)(M)12PN	30.981	14.911

(L) Low Power (M) Medium Power

Please consult factory for custom configurations.

Eclipse Digital Series
Electrical and Mechanical Specifications

16 Bay Mechanical Specifications			
Channel	Height (ft)	Weight (lbs)	Windload (lbs)
14 - 27	34.9 - 30.1	143 - 123	554 - 477
28 - 41	29.7 - 26.2	122 - 107	472 - 415
42 - 55	26.0 - 23.3	107 - 95	411 - 368
56 - 69	23.1 - 20.9	95 - 86	365 - 330

16 Bay Electrical Specifications		
Model	Power Gain	dB Gain
SWED(L)(M)16OI	30.590	14.859
SWED(L)(M)16EC	29.105	14.64
SWED(L)(M)16MC	33.506	15.251
SWED(L)(M)16NC	62.361	17.949
SWED(L)(M)16WC	27.907	14.757
SWED(L)(M)16ML	47.728	16.788
SWED(L)(M)16WL	43.434	16.378
SWED(L)(M)16SL	87.656	19.428
SWED(L)(M)16BF	49.875	16.979
SWED(L)(M)16PN	41.914	16.224

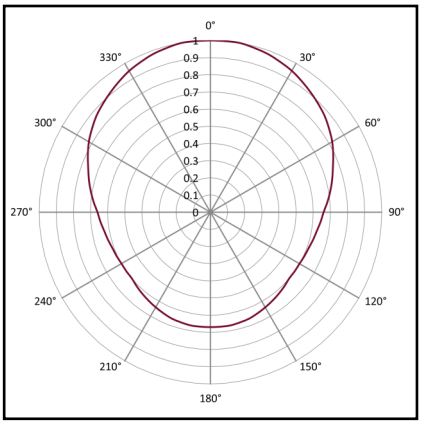
24 Bay Mechanical Specifications			
Channel	Height (ft)	Weight (lbs)	Windload (lbs)
14 - 27	51.4 - 44.2	210 - 181	554 - 477
28 - 41	43.7 - 38.5	179 - 158	472 - 415
42 - 55	38.1 - 34.1	156 - 140	411 - 368
56 - 69	33.8 - 30.6	139 - 126	365 - 330

24 Bay Electrical Specifications		
Model	Power Gain	dB Gain
SWED(L)(M)24OI	46.671	16.69
SWED(L)(M)24EC	44.406	16.474
SWED(L)(M)24MC	21.120	17.086
SWED(L)(M)24NC	95.143	19.784
SWED(L)(M)24WC	42.577	16.292
SWED(L)(M)24ML	72.818	18.622
SWED(L)(M)24WL	66.267	18.213
SWED(L)(M)24SL	133.736	21.262
SWED(L)(M)24BF	76.093	18.813
SWED(L)(M)24PN	63.947	18.058

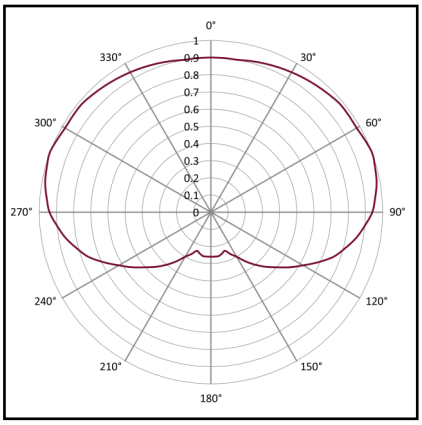
(L) Low Power (M) Medium Power

Please consult factory for custom configurations.

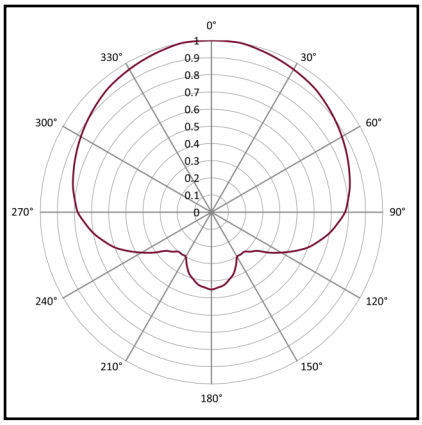
Typical Azimuth Patterns



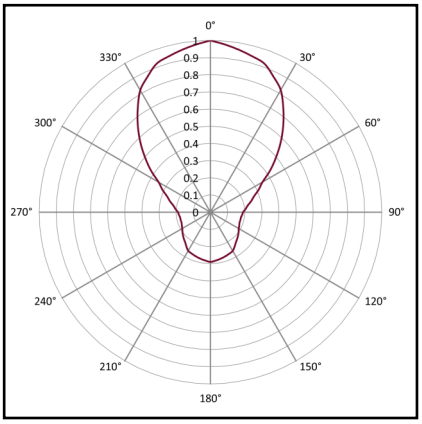
OI (Omni) - Directivity 1.71/ 2.3 dB



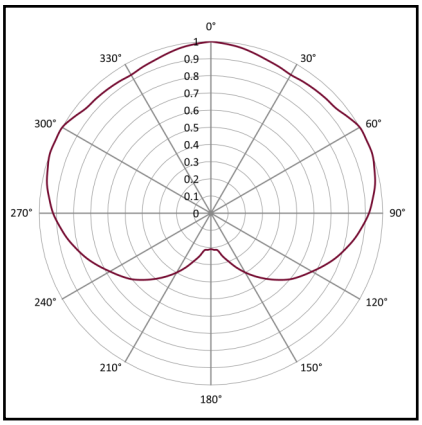
EC (Extended Cardoid) - Directivity 1.64 / 2.1 dB



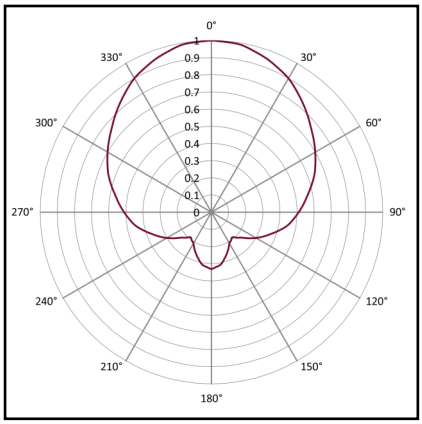
MC (Medium Cardoid) - Directivity 1.86 / 2.7 dB



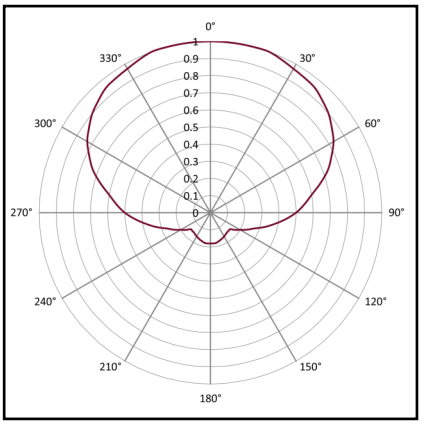
NC (Narrow Cardoid) - Directivity 4.14 / 6.2 dB



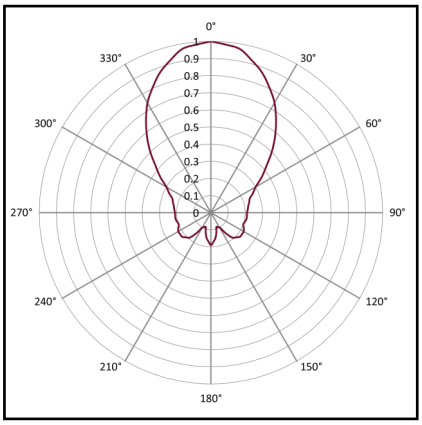
WC (Wide Cardoid) - Directivity 1.57 / 1.9 dB



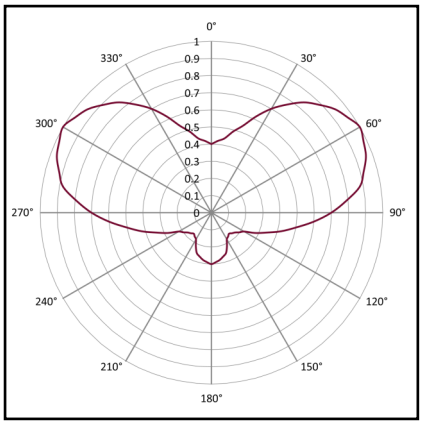
ML (Medium Lobe) - Directivity 2. 68/ 4.3 dB



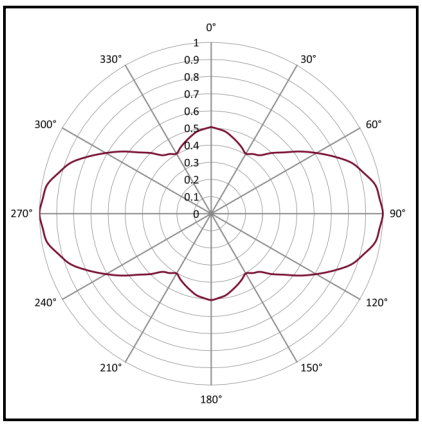
WL (Wide Lobe) - Directivity 2.44 / 3.9 dB



SL (Single Lobe) - Directivity 4.79 / 6.8 dB



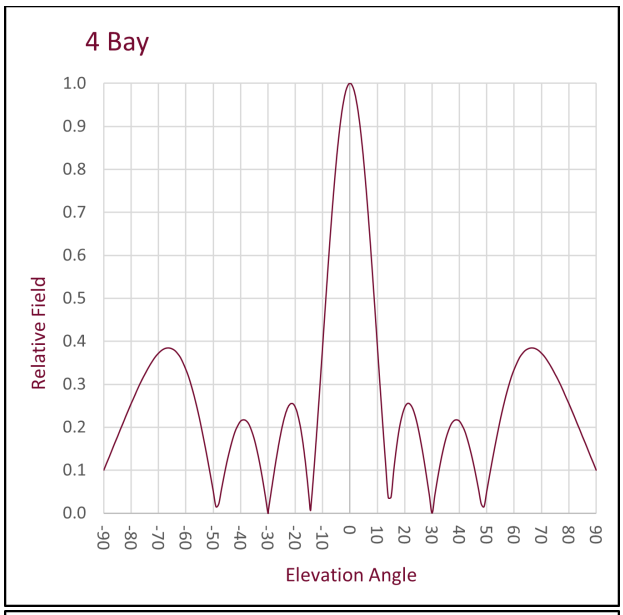
BF (Butterfly) - Directivity 2.77 / 4.4 dB

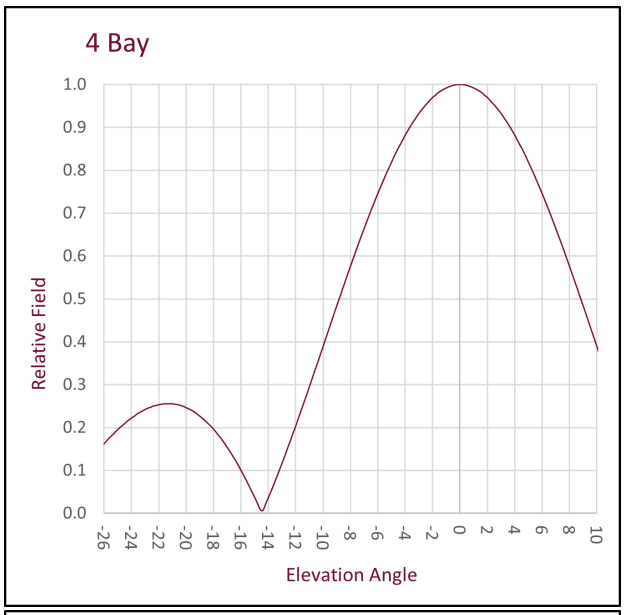


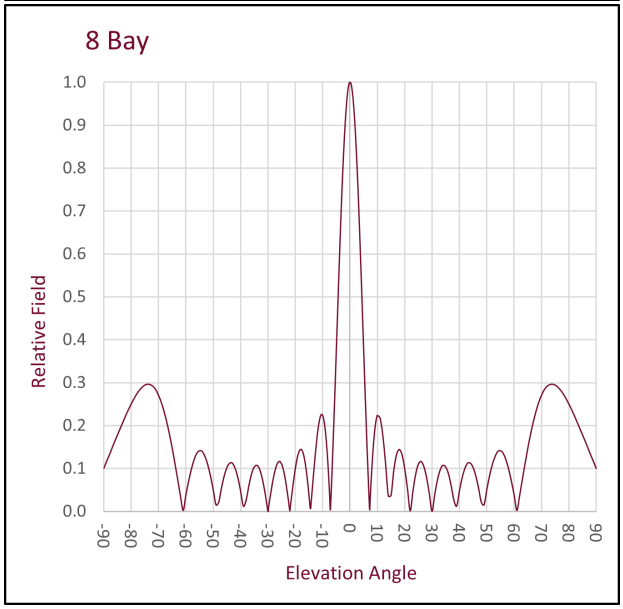
PN (Peanut) - Directivity 2.30 / 3.6 dB

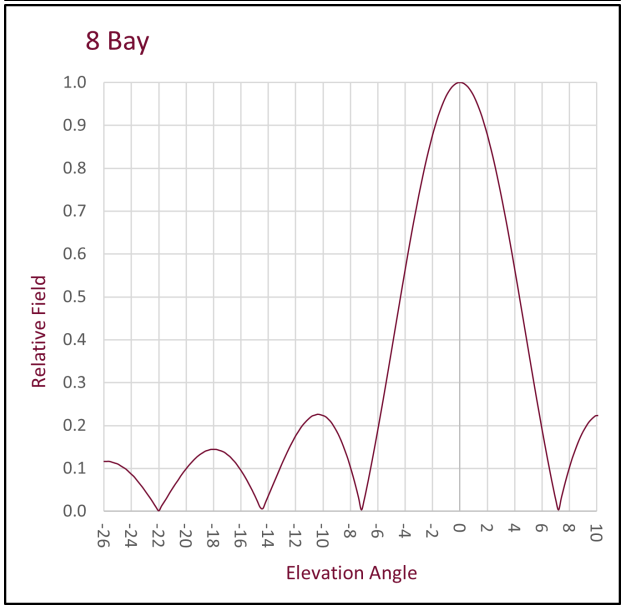
Please consult factory for custom configurations.

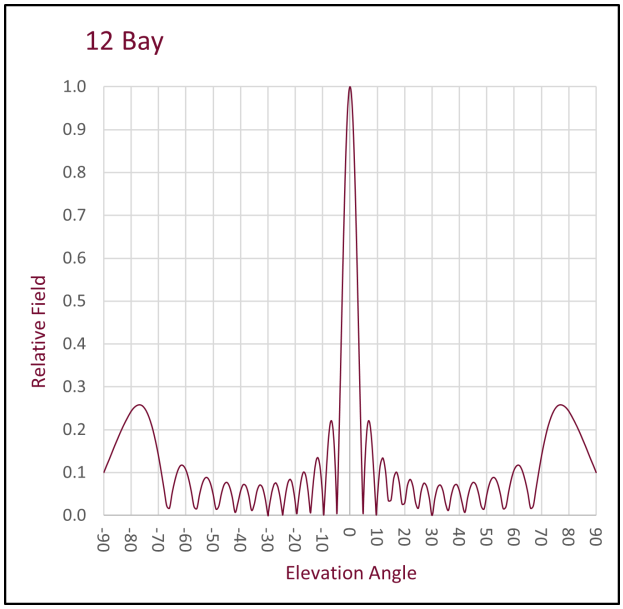
Typical Eclipse D Series Elevation Patterns

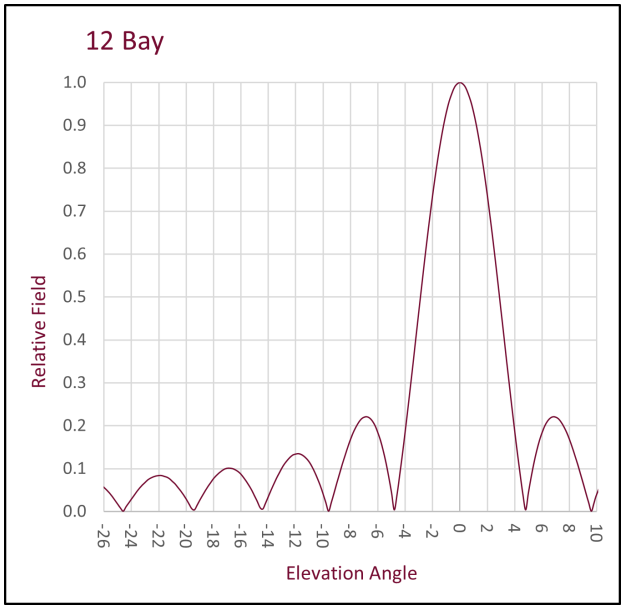












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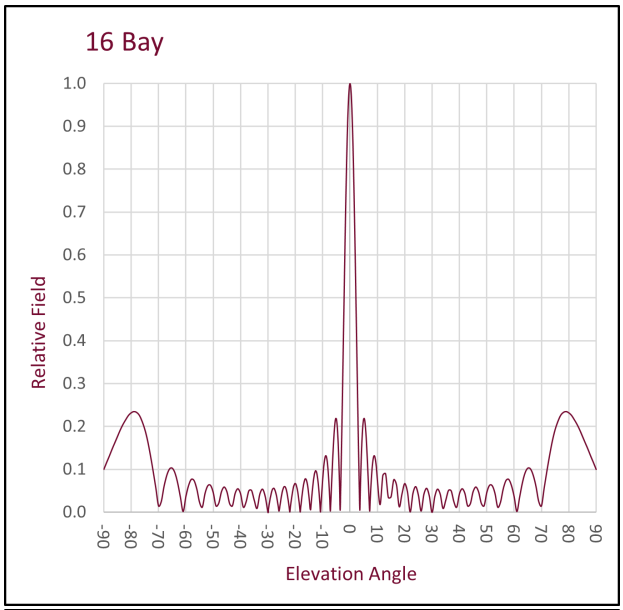
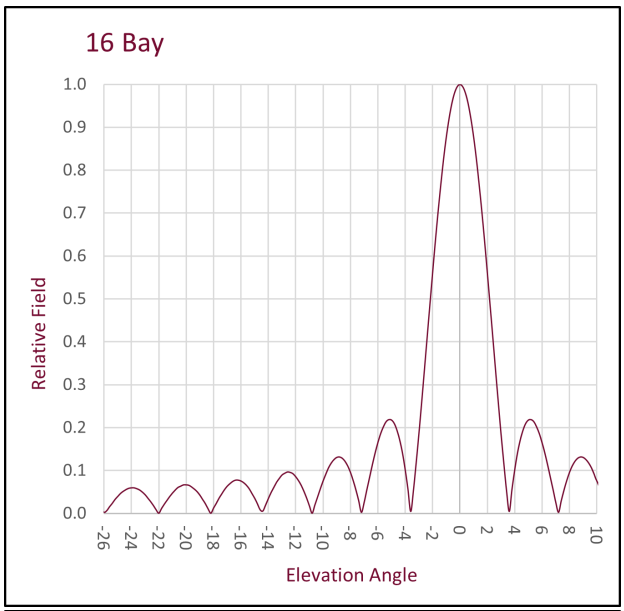
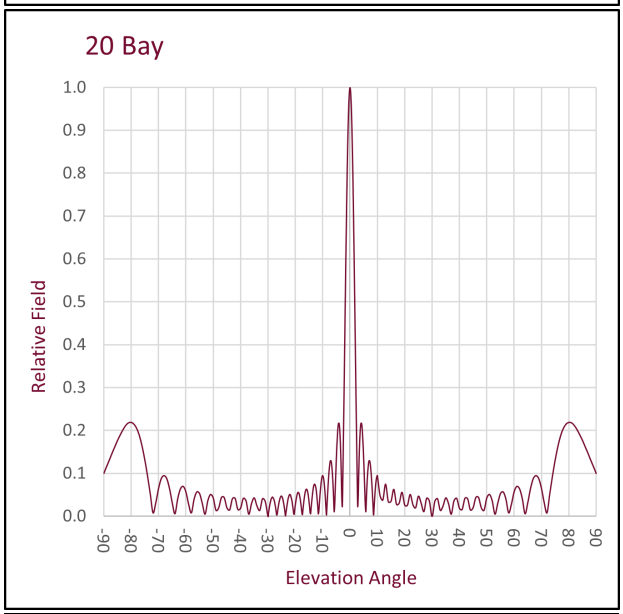
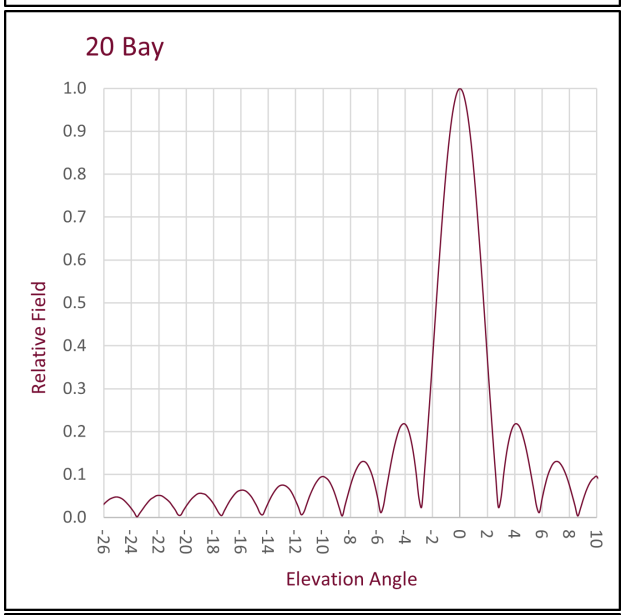
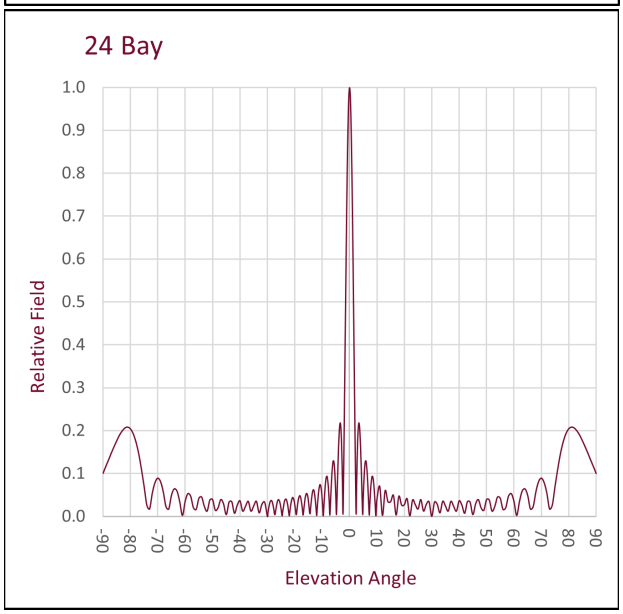
Typical Eclipse D Series Elevation Patterns

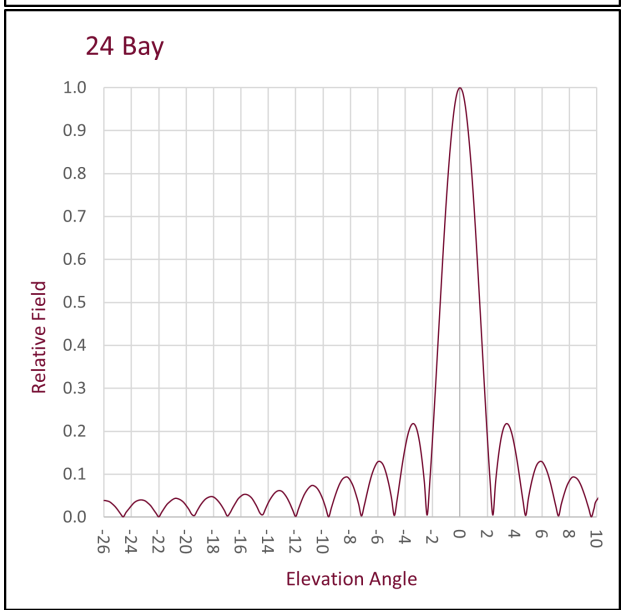












Please consult factory for custom configurations.

Limited Warranty and Limitation of Liability

Unless otherwise specified in writing, the Seller warrants its product to be free of defects in materials and workmanship for three years from the date of shipment, and to conform to the specifications included in the Owner's Manual provided with the product. Broadcast antenna systems purchased with Site Specific Engineering and installed in accordance with the Owner's Manual instructions will also meet the terms of the customer's specifications, station license, and/or construction permit in effect at the time of delivery.

In the event of any failure within the first six months, replacement parts will be couriered to at the expense of SWR, LP. The Seller agrees to service, adjust, and/or replace (at their option) any defective equipment parts returned to its Ebensburg, Pennsylvania plant, freight pre-paid, within three years from the date of original shipment from its plant.

This warranty is subject to the following conditions: 1.) Notice of any defect must be received by the Seller in writing within 30 days of initial discovery. 2.) Notice of any defect must fall within the warranty period. 3.) Seller's inspection of the returned equipment must substantiate (to Seller's satisfaction) the claimed defect. 4.) Seller is not liable for warranty work if notice of defect is given after the warranty period, even if the buyer deems the defect to have occurred during the warranty period.

Systems With Reliability, LP