

2400L H-V 2400L H-H 2400L H-V

Newport/87  
CW freq:  
2/20/2003  
rotator  
position in

Max gain: 1.336

| degrees | dB      | dB      | dB     |
|---------|---------|---------|--------|
| 0.02    | -18.755 | -7.678  | -1.118 |
| 1.702   | -18.916 | -7.868  | -0.869 |
| 3.769   | -19.2   | -8.062  | -0.591 |
| 5.853   | -19.412 | -8.199  | -0.334 |
| 7.914   | -19.402 | -8.302  | -0.128 |
| 10.013  | -19.406 | -8.398  | 0.087  |
| 12.059  | -19.521 | -8.472  | 0.286  |
| 14.138  | -19.467 | -8.525  | 0.481  |
| 16.202  | -19.28  | -8.52   | 0.641  |
| 18.315  | -19.117 | -8.514  | 0.796  |
| 20.401  | -19.11  | -8.5    | 0.919  |
| 22.502  | -18.972 | -8.424  | 1.018  |
| 24.573  | -18.839 | -8.379  | 1.104  |
| 26.641  | -18.678 | -8.298  | 1.184  |
| 28.725  | -18.669 | -8.199  | 1.235  |
| 30.788  | -18.551 | -8.074  | 1.283  |
| 32.836  | -18.614 | -7.998  | 1.305  |
| 34.913  | -18.529 | -7.887  | 1.336  |
| 36.975  | -18.596 | -7.788  | 1.306  |
| 39.039  | -18.513 | -7.64   | 1.297  |
| 41.138  | -18.265 | -7.58   | 1.244  |
| 43.201  | -18.158 | -7.514  | 1.157  |
| 45.277  | -18.032 | -7.463  | 1.094  |
| 47.342  | -17.73  | -7.402  | 0.99   |
| 49.425  | -17.349 | -7.385  | 0.882  |
| 51.487  | -16.94  | -7.419  | 0.755  |
| 53.557  | -16.404 | -7.484  | 0.596  |
| 55.63   | -15.926 | -7.582  | 0.391  |
| 57.684  | -15.39  | -7.683  | 0.239  |
| 59.751  | -14.716 | -7.835  | 0.025  |
| 61.812  | -14.145 | -8.025  | -0.224 |
| 63.905  | -13.523 | -8.345  | -0.502 |
| 65.98   | -12.975 | -8.671  | -0.794 |
| 68.046  | -12.409 | -9.051  | -1.1   |
| 70.137  | -12.017 | -9.409  | -1.376 |
| 72.242  | -11.426 | -9.872  | -1.749 |
| 74.31   | -11.025 | -10.348 | -2.143 |
| 76.398  | -10.643 | -10.876 | -2.597 |
| 78.488  | -10.329 | -11.32  | -3.063 |
| 80.551  | -10.079 | -11.665 | -3.619 |
| 82.614  | -9.94   | -11.8   | -4.178 |
| 84.678  | -9.807  | -11.764 | -4.68  |
| 86.745  | -9.821  | -11.511 | -5.376 |
| 88.851  | -9.885  | -11.004 | -6.129 |
| 90.905  | -10.078 | -10.367 | -7.001 |

|         |         |        |         |
|---------|---------|--------|---------|
| 92.969  | -10.391 | -9.683 | -7.904  |
| 95.028  | -10.713 | -9.089 | -8.946  |
| 97.09   | -11.185 | -8.336 | -10.189 |
| 99.152  | -11.818 | -7.669 | -11.274 |
| 101.218 | -12.688 | -6.999 | -12.756 |
| 103.313 | -13.718 | -6.425 | -14.535 |
| 105.393 | -15.039 | -5.952 | -16.51  |
| 107.485 | -16.695 | -5.592 | -18.412 |
| 109.552 | -18.341 | -5.223 | -19.505 |
| 111.618 | -20.781 | -4.921 | -19.088 |
| 113.685 | -23.354 | -4.674 | -17.472 |
| 115.764 | -24.43  | -4.5   | -15.589 |
| 117.826 | -22.442 | -4.394 | -13.722 |
| 119.895 | -20.373 | -4.346 | -12.142 |
| 121.96  | -18.032 | -4.3   | -10.788 |
| 124.051 | -16.097 | -4.337 | -9.804  |
| 126.13  | -14.585 | -4.406 | -8.726  |
| 128.22  | -13.341 | -4.454 | -7.804  |
| 130.314 | -12.359 | -4.527 | -6.953  |
| 132.393 | -11.62  | -4.618 | -6.208  |
| 134.476 | -11.138 | -4.696 | -5.524  |
| 136.54  | -10.662 | -4.718 | -5.024  |
| 138.602 | -10.268 | -4.717 | -4.456  |
| 140.668 | -10.019 | -4.679 | -3.948  |
| 142.764 | -9.881  | -4.574 | -3.474  |
| 144.835 | -9.84   | -4.42  | -3.097  |
| 146.905 | -9.87   | -4.218 | -2.685  |
| 148.989 | -9.981  | -4.014 | -2.289  |
| 151.09  | -10.272 | -3.813 | -2.013  |
| 153.163 | -10.563 | -3.563 | -1.725  |
| 155.252 | -11     | -3.317 | -1.43   |
| 157.328 | -11.474 | -3.065 | -1.2    |
| 159.414 | -12.131 | -2.822 | -0.98   |
| 161.477 | -12.727 | -2.605 | -0.755  |
| 163.561 | -13.622 | -2.456 | -0.622  |
| 165.638 | -14.787 | -2.27  | -0.466  |
| 167.706 | -16.138 | -2.129 | -0.298  |
| 169.808 | -17.676 | -1.983 | -0.183  |
| 171.903 | -19.856 | -1.892 | -0.085  |
| 174.043 | -22.815 | -1.83  | 0.043   |
| 176.161 | -27.466 | -1.769 | 0.124   |
| 178.239 | -36.798 | -1.747 | 0.17    |
| 180.302 | -37.24  | -1.738 | 0.196   |
| 182.402 | -27.643 | -1.789 | 0.247   |
| 184.465 | -23.055 | -1.847 | 0.237   |
| 186.536 | -19.913 | -1.932 | 0.259   |
| 188.627 | -17.838 | -2.064 | 0.25    |
| 190.696 | -16.063 | -2.17  | 0.194   |
| 192.769 | -14.948 | -2.355 | 0.175   |
| 194.852 | -13.776 | -2.606 | 0.141   |
| 196.924 | -12.774 | -2.873 | 0.079   |

|         |         |         |         |
|---------|---------|---------|---------|
| 198.996 | -11.919 | -3.195  | -0.018  |
| 201.077 | -11.241 | -3.6    | -0.118  |
| 203.141 | -10.575 | -3.929  | -0.252  |
| 205.213 | -10.087 | -4.442  | -0.358  |
| 207.311 | -9.65   | -5.021  | -0.497  |
| 209.378 | -9.195  | -5.704  | -0.672  |
| 211.473 | -8.876  | -6.522  | -0.824  |
| 213.565 | -8.609  | -7.458  | -0.989  |
| 215.633 | -8.425  | -8.593  | -1.179  |
| 217.701 | -8.228  | -9.998  | -1.396  |
| 219.789 | -8.117  | -11.359 | -1.538  |
| 221.861 | -8.048  | -13.472 | -1.762  |
| 223.928 | -8.064  | -16.109 | -2.015  |
| 226.014 | -8.085  | -19.465 | -2.255  |
| 228.076 | -8.204  | -21.816 | -2.514  |
| 230.151 | -8.354  | -19.638 | -2.777  |
| 232.241 | -8.557  | -16.814 | -3.039  |
| 234.361 | -8.793  | -13.879 | -3.318  |
| 236.439 | -9.081  | -11.594 | -3.642  |
| 238.502 | -9.405  | -9.758  | -3.921  |
| 240.571 | -9.821  | -8.306  | -4.252  |
| 242.647 | -10.239 | -7.151  | -4.578  |
| 244.727 | -10.66  | -6.373  | -4.917  |
| 246.807 | -11.116 | -5.562  | -5.22   |
| 248.891 | -11.459 | -4.884  | -5.596  |
| 251.009 | -11.855 | -4.369  | -5.982  |
| 253.171 | -12.181 | -3.967  | -6.351  |
| 255.234 | -12.476 | -3.661  | -6.777  |
| 257.44  | -12.611 | -3.445  | -7.188  |
| 259.506 | -12.798 | -3.381  | -7.562  |
| 261.569 | -12.787 | -3.389  | -7.939  |
| 263.67  | -12.818 | -3.468  | -8.394  |
| 265.801 | -12.818 | -3.713  | -8.862  |
| 267.865 | -12.728 | -4.027  | -9.326  |
| 269.928 | -12.824 | -4.491  | -9.823  |
| 272.001 | -12.882 | -5.067  | -10.432 |
| 274.071 | -12.884 | -5.606  | -10.835 |
| 276.153 | -13.451 | -6.428  | -11.433 |
| 278.223 | -13.609 | -7.363  | -12.159 |
| 280.289 | -13.974 | -8.439  | -12.846 |
| 282.359 | -14.315 | -9.551  | -13.691 |
| 284.44  | -14.827 | -10.63  | -14.316 |
| 286.502 | -15.465 | -11.318 | -15.103 |
| 288.579 | -16.296 | -11.583 | -15.985 |
| 290.666 | -17.166 | -11.325 | -16.98  |
| 292.729 | -18.254 | -10.508 | -17.84  |
| 294.829 | -19.25  | -9.463  | -18.774 |
| 296.89  | -20.765 | -8.403  | -19.532 |
| 298.953 | -22.77  | -7.453  | -19.869 |
| 301.023 | -25.68  | -6.752  | -20.004 |
| 303.115 | -28.906 | -5.983  | -19.499 |

|         |         |        |         |
|---------|---------|--------|---------|
| 305.178 | -32.844 | -5.344 | -18.776 |
| 307.287 | -32.41  | -4.805 | -17.757 |
| 309.378 | -29.383 | -4.364 | -16.62  |
| 311.459 | -25.519 | -4.011 | -15.501 |
| 313.732 | -23.127 | -3.795 | -14.313 |
| 315.827 | -21.347 | -3.584 | -13.298 |
| 317.927 | -20.196 | -3.452 | -12.503 |
| 320.032 | -19.159 | -3.386 | -11.546 |
| 322.097 | -18.243 | -3.367 | -10.629 |
| 324.174 | -17.491 | -3.412 | -9.785  |
| 326.253 | -17.021 | -3.518 | -9.007  |
| 328.327 | -16.485 | -3.592 | -8.264  |
| 330.399 | -16.217 | -3.785 | -7.578  |
| 332.487 | -16.024 | -3.977 | -7.026  |
| 334.559 | -15.916 | -4.202 | -6.406  |
| 336.754 | -15.873 | -4.464 | -5.801  |
| 338.833 | -15.861 | -4.735 | -5.255  |
| 340.915 | -15.929 | -4.981 | -4.692  |
| 342.982 | -16.081 | -5.285 | -4.196  |
| 345.078 | -16.251 | -5.604 | -3.719  |
| 347.141 | -16.529 | -5.913 | -3.324  |
| 349.203 | -16.739 | -6.232 | -2.9    |
| 351.267 | -17.047 | -6.523 | -2.502  |
| 353.344 | -17.451 | -6.832 | -2.119  |
| 355.466 | -17.803 | -7.105 | -1.742  |
| 357.531 | -18.193 | -7.305 | -1.417  |
| 359.589 | -18.43  | -7.551 | -1.154  |
| 360.003 | -18.455 | -7.642 | -1.121  |

753 position vs dB antenna gain data  
2.400000000000000E+09  
5:38 PM