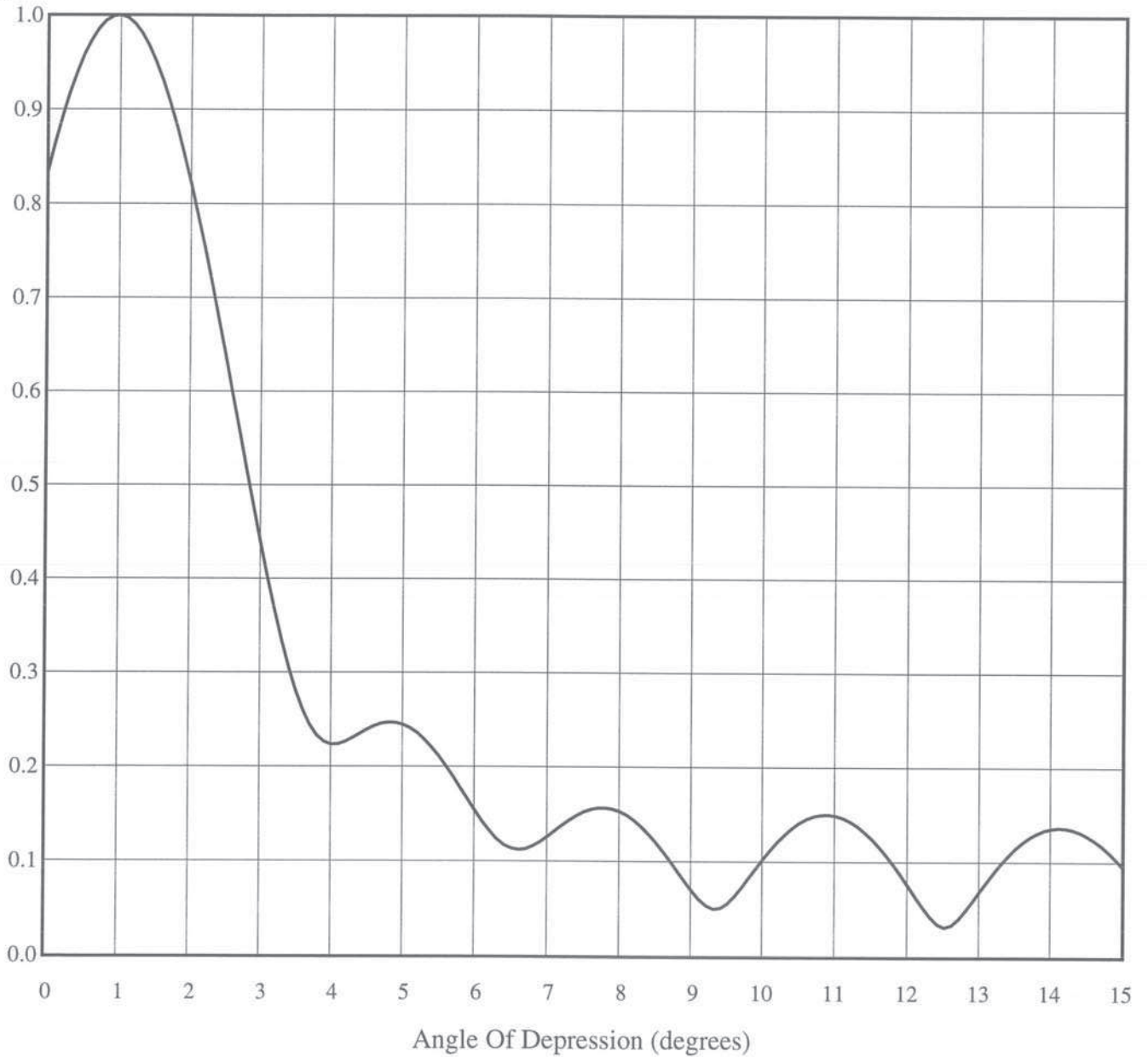


Directional Antenna Azimuth Pattern
 Willis NE Tower Broadband Antenna
 WLS-TV, Chicago, Illinois
 Ch. 22, 908 kW ERP (H), 475 m HAAT
 September, 2019

Vertical Radiation Pattern

E / E_{max}



Date : 05/05/99

Station : Sears Tower

Frequency (MHz) : 653.00

Directivity (dB) : 12.64

Beam Tilt (deg) : 1.0

Vertical Spacing (m) : 1.150

Level	Power	Phase
1	1.0	136.7
2	1.0	84.1
3	1.0	58.9
4	1.0	42.1
5	1.0	21.1
6	1.0	17.9
7	1.0	0.0
8	1.0	33.7