

ELECTRONICS RESEARCH, INC.  
7777 GARDNER ROAD  
CHANDLER, IN. 47610

FIGURE 1

-----THEORETICAL-----  
VERTICAL PLANE RELATIVE FIELD

MARCH 7, 2005

12 ERI TYPE SHP, SHPX, LP, OR LPX ELEMENTS  
-.5 DEGREE(S) ELECTRICAL BEAM TILT  
0 PERCENT FIRST NULL FILL  
0 PERCENT SECOND NULL FILL

ELEMENT SPACING:  
1.0 WAVELENGTH

HORIZONTAL POLARIZATION POWER GAIN IS 9.794 IN THE HORIZONTAL PLANE(10.148 IN THE MAX.)  
VERTICAL POLARIZATION POWER GAIN IS 3.265 IN THE HORIZONTAL PLANE( 3.383 IN THE MAX.)

