

|                | E         | E         | E         | E               | E               | E               | H         | H         | H         | H               | H               | H               |
|----------------|-----------|-----------|-----------|-----------------|-----------------|-----------------|-----------|-----------|-----------|-----------------|-----------------|-----------------|
| Angle, degrees | Z-X plane | Z-Y plane | X-Y plane | Z-X plane norm. | Z-Y plane norm. | X-Y plane norm. | Z-X plane | Z-Y plane | X-Y plane | Z-X plane norm. | Z-Y plane norm. | X-Y plane norm. |
| 0              | -83       | -78       | -76       | -30             | -28             | -13             | -74       | -80       | -69       | -24             | -29             | -9              |
| 10             | -77       | -74       | -75       | -24             | -24             | -12             | -76       | -79       | -68       | -26             | -28             | -10             |
| 20             | -71       | -75       | -77       | -18             | -25             | -14             | -72       | -74       | -70       | -22             | -23             | -12             |
| 30             | -69       | -74       | -77       | -16             | -24             | -14             | -68       | -70       | -72       | -18             | -19             | -14             |
| 40             | -68       | -71       | -80       | -15             | -21             | -17             | -66       | -67       | -77       | -16             | -16             | -19             |
| 50             | -67       | -74       | -80       | -14             | -24             | -17             | -64       | -65       | -76       | -14             | -14             | -18             |
| 60             | -68       | -78       | -82       | -15             | -28             | -19             | -62       | -64       | -70       | -12             | -13             | -12             |
| 70             | -68       | -81       | -85       | -15             | -31             | -22             | -61       | -62       | -68       | -11             | -11             | -10             |
| 80             | -67       | -77       | -84       | -14             | -27             | -21             | -61       | -61       | -65       | -11             | -10             | -7              |
| 90             | -64       | -72       | -81       | -11             | -22             | -18             | -60       | -59       | -64       | -10             | -8              | -6              |
| 100            | -63       | -67       | -83       | -10             | -17             | -20             | -59       | -58       | -63       | -9              | -7              | -5              |
| 110            | -61       | -64       | -83       | -8              | -14             | -20             | -59       | -57       | -62       | -9              | -6              | -4              |
| 120            | -60       | -61       | -83       | -7              | -11             | -20             | -58       | -57       | -62       | -8              | -6              | -4              |
| 130            | -58       | -59       | -84       | -5              | -9              | -21             | -56       | -56       | -62       | -6              | -5              | -4              |
| 140            | -58       | -56       | -83       | -5              | -6              | -20             | -56       | -56       | -63       | -6              | -5              | -5              |
| 150            | -57       | -56       | -80       | -4              | -6              | -17             | -56       | -55       | -63       | -6              | -4              | -5              |
| 160            | -58       | -55       | -77       | -5              | -5              | -14             | -55       | -56       | -64       | -5              | -5              | -6              |
| 170            | -58       | -54       | -73       | -5              | -4              | -10             | -54       | -56       | -65       | -4              | -5              | -7              |
| 180            | -58       | -54       | -71       | -5              | -4              | -8              | -54       | -56       | -67       | -4              | -5              | -9              |
| 190            | -58       | -54       | -70       | -5              | -4              | -7              | -55       | -56       | -69       | -5              | -5              | -11             |
| 200            | -59       | -55       | -68       | -6              | -5              | -5              | -55       | -56       | -70       | -5              | -5              | -12             |
| 210            | -61       | -55       | -67       | -8              | -5              | -4              | -56       | -57       | -70       | -6              | -6              | -12             |
| 220            | -63       | -56       | -67       | -10             | -6              | -4              | -58       | -58       | -71       | -8              | -7              | -13             |
| 230            | -65       | -58       | -67       | -12             | -8              | -4              | -60       | -60       | -69       | -10             | -9              | -11             |
| 240            | -66       | -60       | -67       | -13             | -10             | -4              | -62       | -62       | -67       | -12             | -11             | -9              |
| 250            | -68       | -63       | -69       | -15             | -13             | -6              | -65       | -64       | -66       | -15             | -13             | -8              |
| 260            | -69       | -67       | -70       | -16             | -17             | -7              | -69       | -66       | -66       | -19             | -15             | -8              |
| 270            | -68       | -70       | -71       | -15             | -20             | -8              | -70       | -69       | -65       | -20             | -18             | -7              |
| 280            | -67       | -77       | -73       | -14             | -27             | -10             | -72       | -73       | -65       | -22             | -22             | -7              |
| 290            | -66       | -83       | -75       | -13             | -33             | -12             | -71       | -80       | -65       | -21             | -29             | -7              |
| 300            | -66       | -82       | -77       | -13             | -32             | -14             | -70       | -81       | -65       | -20             | -30             | -7              |
| 310            | -67       | -80       | -77       | -14             | -30             | -14             | -69       | -80       | -65       | -19             | -29             | -7              |
| 320            | -67       | -79       | -77       | -14             | -29             | -14             | -69       | -78       | -66       | -19             | -27             | -8              |
| 330            | -69       | -80       | -77       | -16             | -30             | -14             | -68       | -76       | -66       | -18             | -25             | -8              |
| 340            | -70       | -82       | -76       | -17             | -32             | -13             | -68       | -77       | -66       | -18             | -26             | -8              |
| 350            | -74       | -85       | -76       | -21             | -35             | -13             | -69       | -77       | -67       | -19             | -22             | -9              |

Antenna gain dBi









