

FULL SYSTEM PATH STUDY
LightSquared Site #1 Plus Ant Rad Ctr HT_AMSL

Transmitter coordinates, N. Lat. 182129.2 W. Lng. 660507.2
Receiver coordinates, N. Lat. 182040.1 W. Lng. 664510.1
Transmitter Antenna Height= 112 Mtrs AMSL
Receiver Antenna Height= 422 Mtrs AMSL

Path Length =70.56 km
Azimuth =268.87 degrees
Frequency = 1673 MHz

Obstruction loss =-57.8 dB
Free Space loss =-133.91 dB
Transmission line loss = dB
Receiving line loss = dB
Connector loss = 0 dB
Other losses = 0 dB

Total losses = -191.71 dB

Transmitter output power = 0 Watts, 0 dBm
Other gains = 0 dB

Total gains = 0 dB

Expected receiver signal =-191.71 dB
Desired receiver signal (sensitivity) = 223872.11 microVolts, dBm
Available fade margin =-191.71 dB

Minimum fade margin Recommended = 24.7 dB

