

FULL SYSTEM PATH STUDY
LightSquared Site #3 Plus Ant Rad Ctr HT_AMSL

Transmitter coordinates, N. Lat. 181920.6 W. Lng. 670853.5
Receiver coordinates, N. Lat. 182040.1 W. Lng. 664510.1
Transmitter Antenna Height= 316.9 Mtrs AMSL
Receiver Antenna Height= 422 Mtrs AMSL

Path Length =41.87 km
Azimuth =86.57 degrees
Frequency = 1673 MHz

Obstruction loss = 0 dB
Free Space loss =-129.38 dB
Transmission line loss = dB
Receiving line loss = dB
Connector loss = 0 dB
Other losses = 0 dB

Total losses = -129.38 dB

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

Total gains = 0 dB

Expected receiver signal =-129.38 dB
Desired receiver signal (sensitivity) = 223872.11 microVolts, dBm
Available fade margin =-129.38 dB

Minimum fade margin Recommended = 14.65 dB

