

FULL SYSTEM PATH STUDY
LightSquared Site #5 Plus Ant Rad Ctr HT_AMSL

Transmitter coordinates, N. Lat. 180202.4 W. Lng. 662826.4
Receiver coordinates, N. Lat. 182040.1 W. Lng. 664510.1
Transmitter Antenna Height= 189 Mtrs AMSL
Receiver Antenna Height= 422 Mtrs AMSL

Path Length =45.29 km
Azimuth =319.57 degrees
Frequency = 1673 MHz

Obstruction loss =-77.74 dB
Free Space loss =-130.06 dB
Transmission line loss = dB
Receiving line loss = dB
Connector loss = 0 dB
Other losses = 0 dB

Total losses = -207.79 dB

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

Total gains = 0 dB

Expected receiver signal =-207.79 dB
Desired receiver signal (sensitivity) = 223872.11 microVolts, dBm
Available fade margin =-207.8 dB

Minimum fade margin Recommended = 15.85 dB

