

FULL SYSTEM PATH STUDY
LightSquared Site #4 Plus Ant Rad Ctr HT_AMSL

Transmitter coordinates, N. Lat. 181129.8 W. Lng. 655920.4
Receiver coordinates, N. Lat. 182040.1 W. Lng. 664510.1
Transmitter Antenna Height= 398 Mtrs AMSL
Receiver Antenna Height= 422 Mtrs AMSL

Path Length =82.52 km
Azimuth =282.02 degrees
Frequency = 1673 MHz

Obstruction loss =-70.37 dB
Free Space loss =-135.27 dB
Transmission line loss = dB
Receiving line loss = dB
Connector loss = 0 dB
Other losses = 0 dB

Total losses = -205.64 dB

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

Total gains = 0 dB

Expected receiver signal =-205.64 dB
Desired receiver signal (sensitivity) = 223872.11 microVolts, dBm
Available fade margin =-205.64 dB

Minimum fade margin Recommended = 28.88 dB

