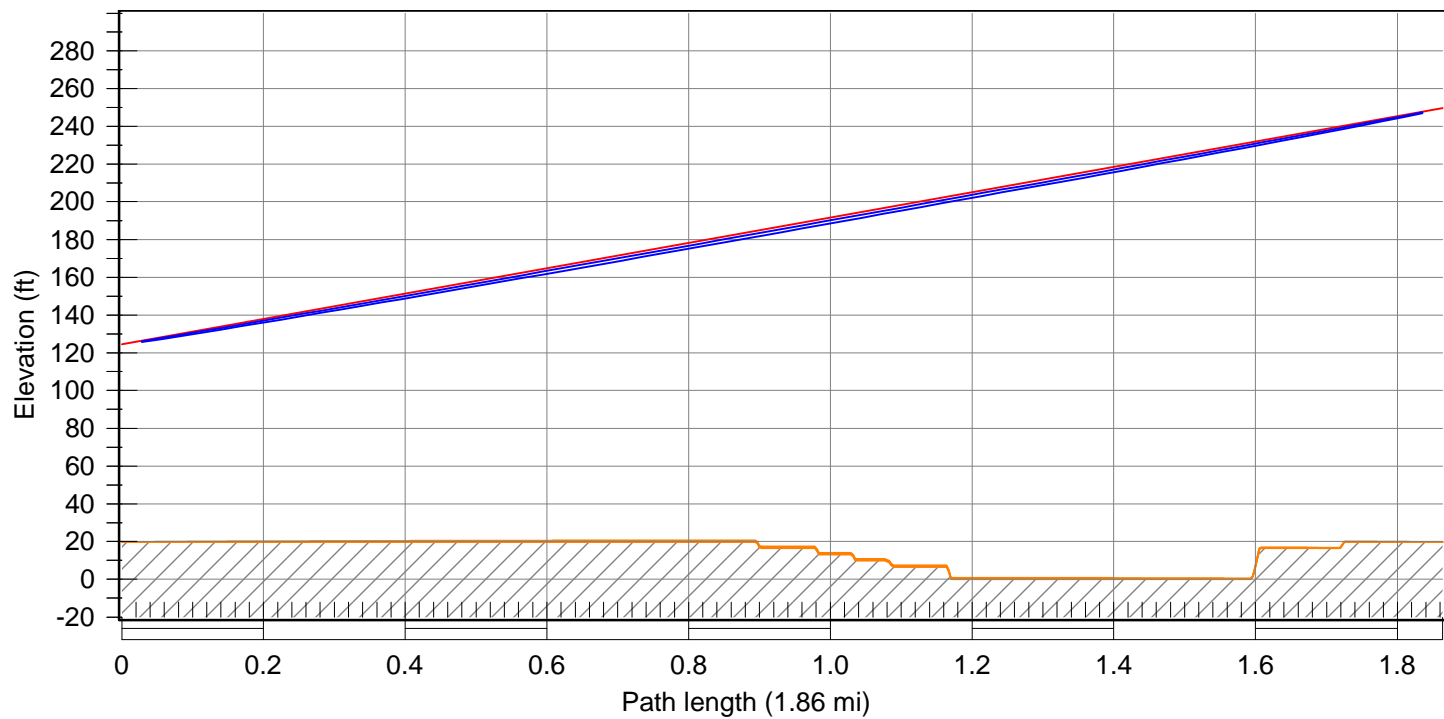


Transmission summary (Transit Camden-200 Chestnut_GX.pl5)

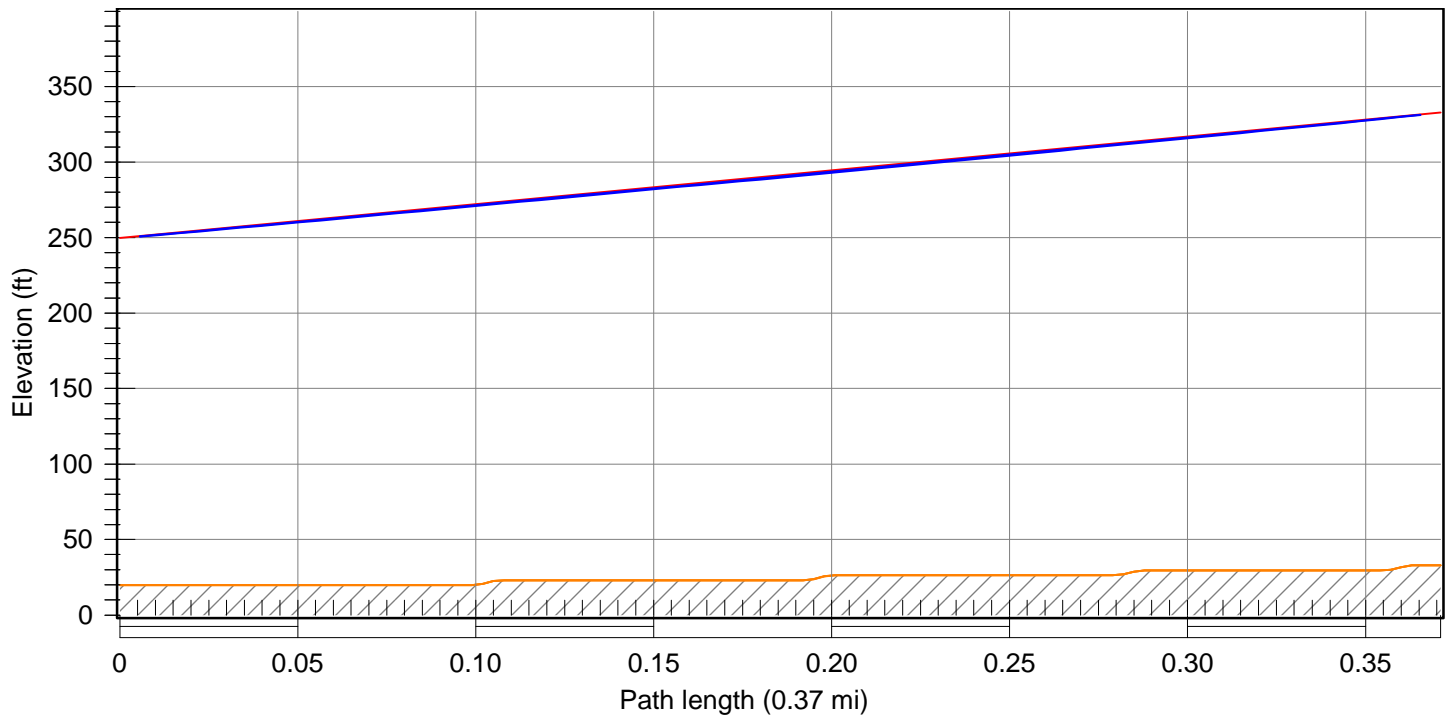


F = 81000.00 MHz K = 1.33, 0.67 %F1 = 60.0, 30.0

	Transit Camden	200 Chestnut
Latitude	39 56 21.98 N	39 56 52.62 N
Longitude	075 06 39.89 W	075 08 39.77 W
True azimuth (°)	288.38	108.36
Vertical angle (°)	0.72	-0.74
Elevation (ft)	19.69	19.69
Tower type	self supporting	
Antenna model	FJ71-86GHz-2 (TR)	FJ71-86GHz-2 (TR)
Antenna gain (dBi)	48.00	48.00
Antenna height (ft)	105.00	230.00
TX loss (dB)	0.00	0.00
RX loss (dB)	0.00	0.00
Frequency (MHz)	81000.00	
Path length (mi)	1.86	
Free space loss (dB)	140.18	
Radio model	GX4000_R3.0	GX4000_R3.0
TX power (dBm)	10.00	10.00
EIRP (dBm)	58.00	58.00
Maximum receive signal (dBm)	-25.00	-25.00
Receive signal (dBm)	-36.39	-36.39
Thermal fade margin (dB)	17.61	17.61
Effective fade margin (dB)	17.61	17.61
Annual 2 way multipath availability (%)	99.99611	
Annual 2 way multipath unavailability (sec)	1226.23	
Annual rain availability (%)	99.74076	
Annual rain + multipath availability (%)	99.73687	

Multipath fading method - Vigants - Barnett
Rain fading method - Crane

Transmission summary (200 Chestnut-Federal Court house.pl5)

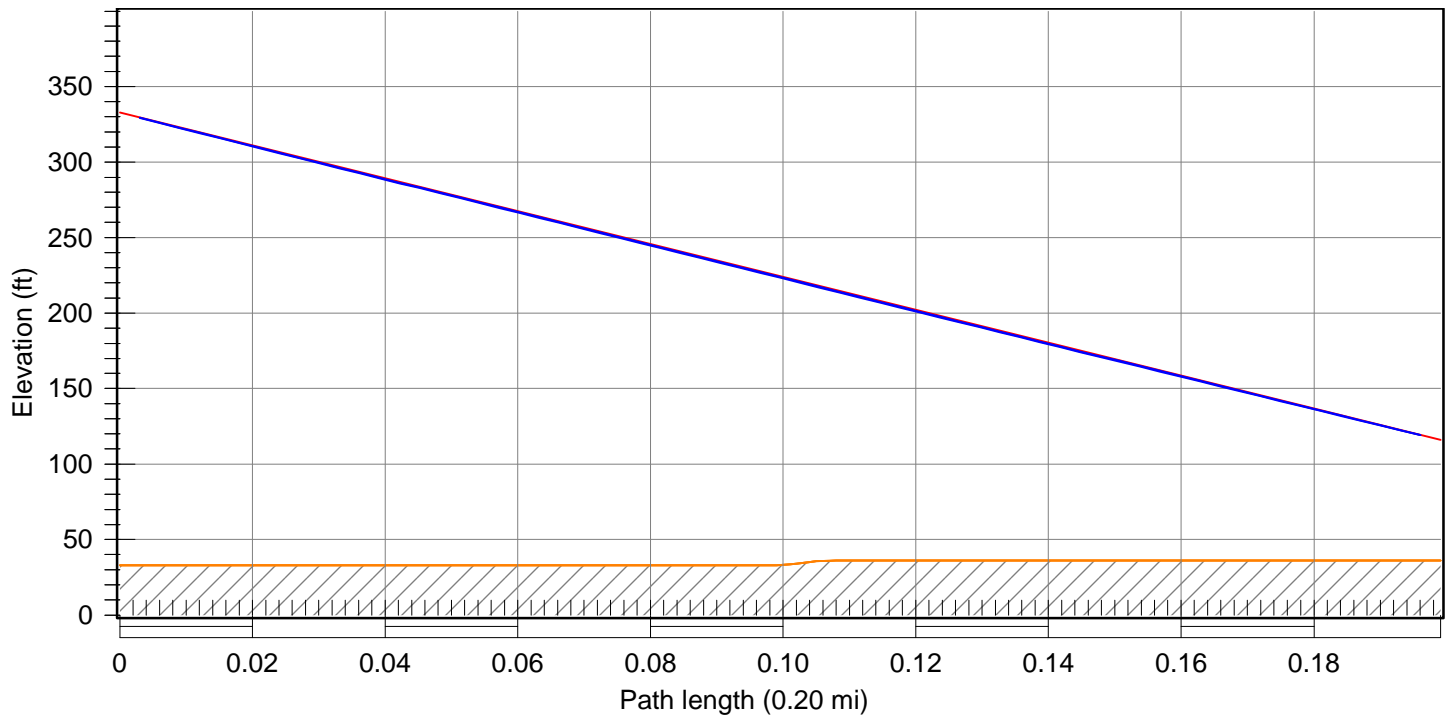


F = 81000.00 MHz K = 1.33, 0.67 %F1 = 60.0, 30.0

	200 Chestnut	Federal Court house
Latitude	39 56 52.62 N	39 57 05.10 N
Longitude	075 08 39.77 W	075 09 04.28 W
True azimuth (°)	303.48	123.47
Vertical angle (°)	2.43	-2.43
Elevation (ft)	19.69	32.81
Tower height (ft)		303.00
Antenna model	FJ71-86GHz-1 (TR)	FJ71-86GHz-1 (TR)
Antenna gain (dBi)	43.00	43.00
Antenna height (ft)	230.00	300.00
TX loss (dB)	0.00	0.00
RX loss (dB)	0.00	0.00
Frequency (MHz)	81000.00	
Path length (mi)	0.37	
Free space loss (dB)	126.17	
Radio model	GX4000_R3.0	GX4000_R3.0
TX power (dBm)	10.00	10.00
EIRP (dBm)	53.00	53.00
Maximum receive signal (dBm)	-25.00	-25.00
Receive signal (dBm)	-31.41	-31.41
Thermal fade margin (dB)	22.59	22.59
Effective fade margin (dB)	22.59	22.59
Annual 2 way multipath availability (%)	99.99999	
Annual 2 way multipath unavailability (sec)	3.08	
Annual rain availability (%)	99.99938	
Annual rain + multipath availability (%)	99.99937	

Multipath fading method - Vigants - Barnett
Rain fading method - Crane

Transmission summary (Federal Court house-9th and Filbert.pl5)

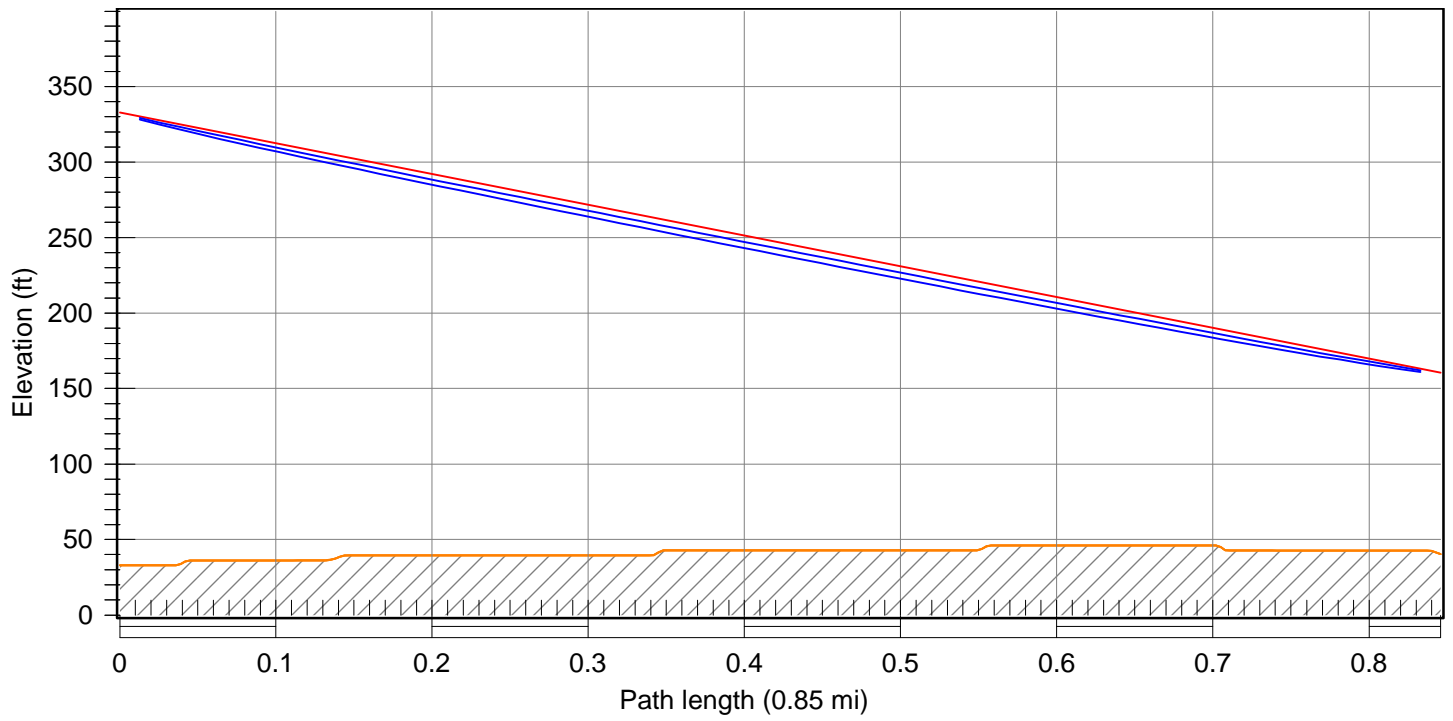


F = 81000.00 MHz K = 1.33, 0.67 %F1 = 60.0, 30.0

	Federal Court house	9th and Filbert
Latitude	39 57 05.10 N	39 57 09.54 N
Longitude	075 09 04.28 W	075 09 11.48 W
True azimuth (°)	308.72	128.72
Vertical angle (°)	-11.65	11.65
Elevation (ft)	32.81	36.09
Tower height (ft)	303.00	
Antenna model	FJ71-86GHz-1 (TR)	FJ71-86GHz-1 (TR)
Antenna gain (dBi)	43.00	43.00
Antenna height (ft)	300.00	80.00
TX loss (dB)	0.00	0.00
RX loss (dB)	0.00	0.00
Frequency (MHz)	81000.00	
Path length (mi)	0.20	
Free space loss (dB)	120.93	
Radio model	GX4000_R3.0	GX4000_R3.0
TX power (dBm)	10.00	10.00
EIRP (dBm)	53.00	53.00
Maximum receive signal (dBm)	-25.00	-25.00
Receive signal (dBm)	-26.06	-26.06
Thermal fade margin (dB)	27.94	27.94
Effective fade margin (dB)	27.94	27.94
Annual 2 way multipath availability (%)	100.00000	
Annual 2 way multipath unavailability (sec)	0.15	
Annual rain availability (%)	100.00000	
Annual rain + multipath availability (%)	100.00000	

Multipath fading method - Vigants - Barnett
Rain fading method - Crane

Transmission summary (Federal Court house-1540 Spring.pl5)



F = 5800.00 MHz K = 1.33, 0.67 %F1 = 60.0, 30.0

	Federal Court house	1540 Spring
Latitude	39 57 05.10 N	39 57 26.68 N
Longitude	075 09 04.28 W	075 09 54.29 W
True azimuth (°)	299.29	119.28
Vertical angle (°)	-2.22	2.21
Elevation (ft)	32.81	40.35
Tower height (ft)	303.00	
Antenna model	FJ71-86GHz-1 (TR)	FJ71-86GHz-1 (TR)
Antenna gain (dBi)	43.00	43.00
Antenna height (ft)	300.00	120.00
TX loss (dB)	0.00	0.00
RX loss (dB)	0.00	0.00
Frequency (MHz)	5800.00	
Path length (mi)	0.85	
Free space loss (dB)	110.42	
Radio model	GX4000_R3.0	GX4000_R3.0
TX power (dBm)	10.00	10.00
EIRP (dBm)	53.00	53.00
Maximum receive signal (dBm)	-25.00	-25.00
Receive signal (dBm)	-15.43	-15.43
Thermal fade margin (dB)	38.57	38.57
Effective fade margin (dB)	38.57	38.57
Annual 2 way multipath availability (%)	100.00000	
Annual 2 way multipath unavailability (sec)	0.07	
Annual rain availability (%)	100.00000	
Annual rain + multipath availability (%)	100.00000	

Multipath fading method - Vigants - Barnett
Rain fading method - Crane