

Micronet Communications, Inc.

720 F Avenue, Suite 100
Plano, Texas 75074
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M1824812
Licensee: Southern Uplink, Inc.

5.93 GHz

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Pursuant to Parts 25.203 and 101.103(d) of the FCC Rules and Regulations, a frequency coordination study was conducted by Micronet Communications, Inc. for the following proposed earth station:

Southern, AL

The results of the study indicate that no unacceptable interference will result with existing, proposed or prior coordinated radio facilities.

Coordination was performed with existing, proposed and prior coordinated carriers within coordination range on the following dates:

09/10/2018 Original PCN (Expedited response requested by 09/24/2018)
There were no unresolved interference objections.

The attached coordination data was forwarded on the latest date to the following parties within coordination range or their authorized coordination agents:

ALABAMA POWER COMPANY
ALLTEL COMMUNICATIONS, LLC
BLAB NETWORK INC.
CITY OF PHENIX CITY
COMSEARCH INC
DIVERSE POWER INC
HARRIS CORPORATION
MICRONET COMMUNICATIONS INC
MONTGOMERY, COUNTY OF
NEW CINGULAR WIRELESS PCS, LLC
PINE BELT TELEPHONE CO INC
PNE BELT CELLULAR, INC.
POWERSOUTH ENERGY COOPERATIVE
RADIO DYNAMICS
SOUTHERN COMPANY SERVICES, INC.
SOUTHERN LIGHT, LLC
T-MOBILE LICENSE LLC
TROY UNIVERSITY
VERIZON WIRELESS (VAW) LLC
VERIZON WIRELESS OF THE EAST LP

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Respectfully Submitted,

A handwritten signature in black ink that reads "Jeremy B. Lewis". The signature is written in a cursive style with a large initial 'J' and a distinct 'B'.

Jeremy Lewis
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.
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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

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Company:	Southern Uplink, Inc.		
Site Name, State:	Southern, AL		
Call Sign:			
Latitude	(NAD83)	31 40	29.0 N
Longitude	(NAD83)	86 11	44.9 W
Elevation AMSL	(ft/m)	349.41	106.50
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-6425	
Range of Satellite Orbital Long.	(deg W)	58.00	139.00
Range of Azimuths from North	(deg)	134.41	248.27
Antenna Centerline	(ft/m)	10.01	3.05
Antenna Elevation Angles	(deg)	42.17	22.98

Equipment Parameters	Receive	Transmit
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Antenna Gain, Main Beam	(dbI)	43.80	46.60
15 DB Half Beamwidth	(deg)	2.10	1.37

Antennas Receive: ASC SIGNAL CORPORATION ES45T-HW-1 (4.5M)
 Transmit: ASC SIGNAL CORPORATION ES45T-HW-1 (4.5M)

Max Transmitter Power	(dbW/4KHz)	-15.23	
Max EIRP Main Beam	(dbW/4KHz)	31.37	
Modulation / Emission Designator	DIGITAL	12M8G7W	400KG7W

Coordination Parameters	Receive	Transmit
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Max Greater Circle Distances	(km)	401.13	146.38
Max Rain Scatter Distances	(km)	564.59	100.00
Max Interference Power Long Term	(dbW)	-158.60	-154.80
Max Interference Power Short Term	(dbW)	-149.90	-130.80
Rain Zone / Radio Zone		1	A

MICRONET COMMUNICATIONS, INC.
 10-01-2018

File: M1824812

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Horizon Angle   Horizon Gain   Final Contour   -   6.17 GHz TRANSMIT
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Company: Southern Uplink Inc.

Site Name, State: Southern, AL

Call Sign:

Latitude (NAD83) 31 40 29.0 N Longitude (NAD83) 86 11 44.9 W

North Azimuth (deg)	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)	North Azimuth (deg)	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)
0	0.34	-14.70	110.6	180	0.15	-11.98	123.9
5	0.26	-18.41	113.7	185	0.13	-11.83	123.9
10	0.34	-18.54	110.6	190	0.16	-11.31	123.9
15	0.28	-15.80	113.0	195	0.28	-10.45	112.7
20	0.20	-13.00	115.5	200	0.26	-10.00	114.2
25	0.18	-10.11	123.9	205	0.35	-10.00	112.0
30	0.12	-10.00	123.9	210	0.45	-10.00	109.3
35	0.18	-10.00	123.9	215	0.27	-10.00	115.9
40	0.14	-10.00	123.9	220	0.41	-10.00	111.0
45	0.17	-10.00	123.9	225	0.44	-6.92	110.0
50	0.14	-10.10	123.9	230	0.39	-4.66	111.3
55	0.12	-11.68	123.9	235	0.48	-3.91	107.6
60	0.18	-13.00	123.9	240	0.60	-3.34	102.6
65	0.11	-13.00	124.8	245	0.64	-3.01	100.0
70	0.37	-13.00	112.5	250	0.67	-2.96	100.0
75	0.11	-13.00	130.6	255	0.87	-3.15	100.0
80	0.15	-13.00	133.8	260	0.56	-3.70	102.8
85	0.07	-13.00	136.9	265	0.55	-4.38	103.2
90	0.09	-13.00	140.1	270	0.47	-5.85	106.0
95	0.10	-12.99	142.9	275	0.67	-9.22	100.0
100	0.03	-11.64	145.5	280	0.46	-10.00	106.4
105	0.07	-10.36	146.4	285	0.42	-10.00	108.0
110	0.13	-10.00	146.1	290	0.42	-10.00	108.0
115	0.10	-10.00	144.6	295	0.27	-10.87	113.1
120	0.11	-10.00	142.0	300	0.30	-13.00	112.2
125	0.16	-10.00	139.0	305	0.31	-13.00	111.9
130	0.13	-10.00	135.9	310	0.31	-13.00	111.7
135	0.11	-10.00	132.7	315	0.20	-13.00	123.9
140	0.12	-10.00	129.9	320	0.14	-13.00	123.9
145	0.11	-10.00	127.6	325	0.18	-13.00	123.9
150	0.12	-10.00	125.6	330	0.10	-11.56	123.9
155	0.09	-10.00	123.9	335	0.14	-10.00	123.9
160	0.09	-10.00	123.9	340	0.26	-10.00	113.6
165	0.08	-10.54	123.9	345	0.25	-10.00	113.9
170	0.14	-11.32	123.9	350	0.25	-10.00	113.8
175	0.15	-11.81	123.9	355	0.27	-11.02	113.3

MICRONET COMMUNICATIONS, INC.
10-01-2018

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Horizon Angle    Horizon Gain    Final Contour    -    3.95 GHz RECEIVE
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Company: Southern Uplink Inc.

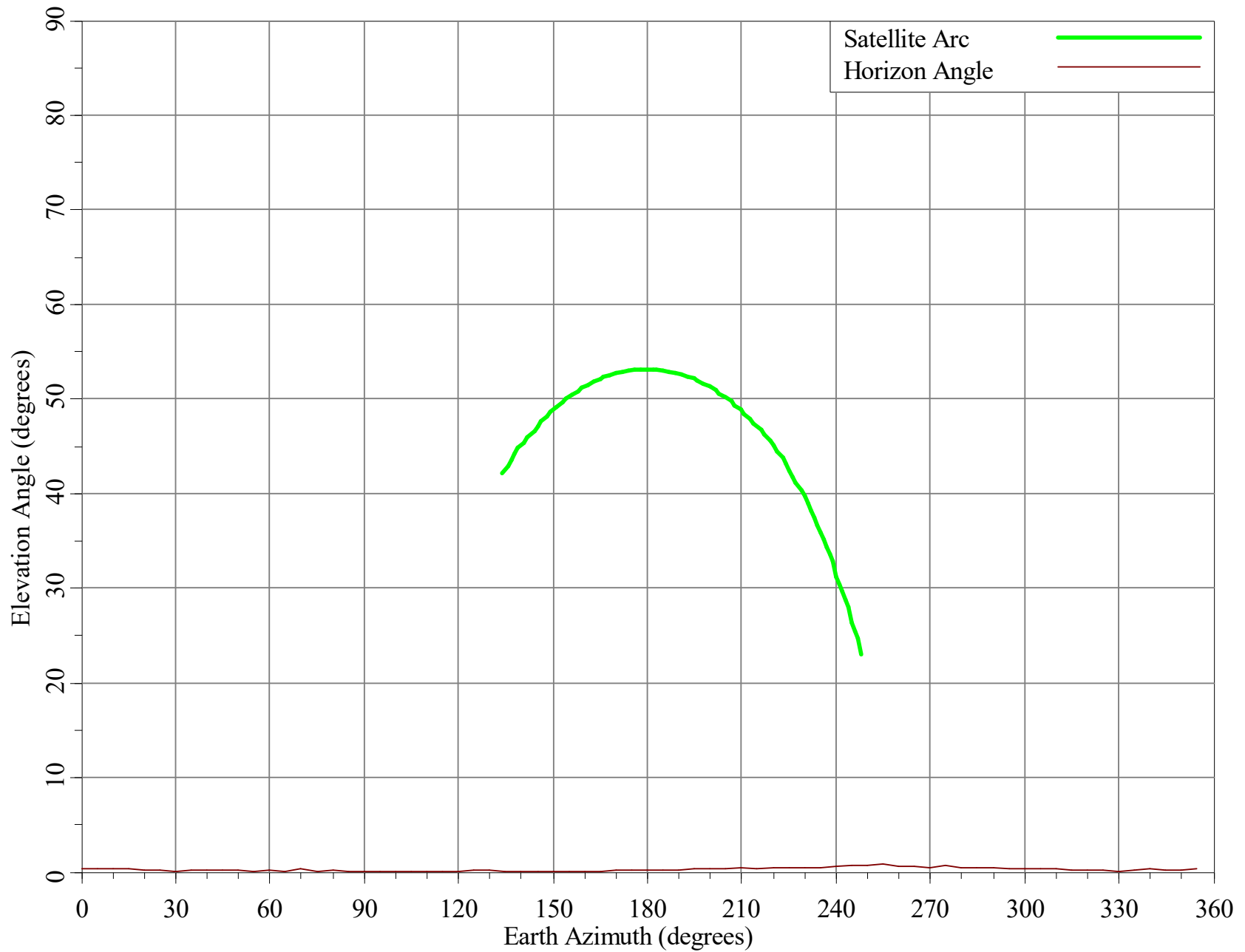
Site Name, State: Southern, AL

Call Sign:

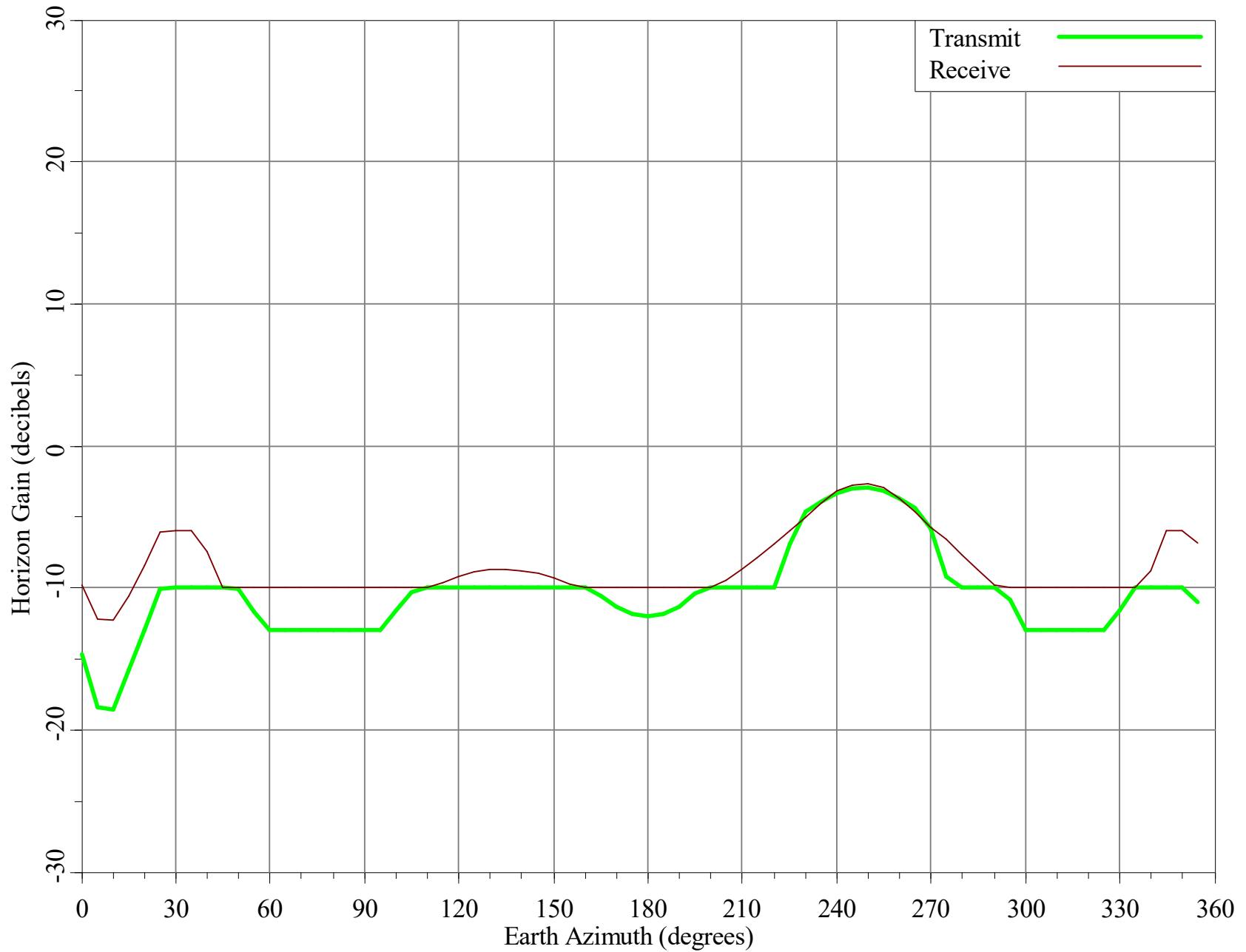
Latitude (NAD83) 31 40 29.0 N Longitude (NAD83) 86 11 44.9 W

North Azimuth (deg)	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)	North Azimuth (deg)	Horizon Angle (deg)	Horizon Gain (db)	Final Contour (km)
0	0.34	-9.86	309.3	180	0.15	-10.00	334.5
5	0.26	-12.18	315.7	185	0.13	-10.00	334.5
10	0.34	-12.25	309.3	190	0.16	-10.00	334.5
15	0.28	-10.57	314.3	195	0.28	-10.00	313.6
20	0.20	-8.46	319.6	200	0.26	-10.00	318.2
25	0.18	-6.09	334.5	205	0.35	-9.51	314.7
30	0.12	-6.00	334.5	210	0.45	-8.71	310.2
35	0.18	-6.00	334.5	215	0.27	-7.90	324.5
40	0.14	-7.46	334.5	220	0.41	-6.96	314.6
45	0.17	-10.00	334.5	225	0.44	-6.01	312.3
50	0.14	-10.00	334.5	230	0.39	-5.03	314.5
55	0.12	-10.00	334.5	235	0.48	-4.01	305.9
60	0.18	-10.00	334.5	240	0.60	-3.22	294.3
65	0.11	-10.00	336.9	245	0.64	-2.77	287.4
70	0.37	-10.00	317.5	250	0.67	-2.70	284.9
75	0.11	-10.00	352.9	255	0.87	-2.95	270.5
80	0.15	-10.00	362.8	260	0.56	-3.72	293.0
85	0.07	-10.00	372.1	265	0.55	-4.65	293.7
90	0.09	-10.00	381.9	270	0.47	-5.73	299.6
95	0.10	-10.00	390.6	275	0.67	-6.62	284.7
100	0.03	-10.00	398.4	280	0.46	-7.66	300.4
105	0.07	-10.00	401.1	285	0.42	-8.73	303.8
110	0.13	-10.00	400.4	290	0.42	-9.83	303.9
115	0.10	-9.62	395.6	295	0.27	-10.00	314.6
120	0.11	-9.21	387.8	300	0.30	-10.00	312.7
125	0.16	-8.90	378.6	305	0.31	-10.00	312.0
130	0.13	-8.74	369.0	310	0.31	-10.00	311.6
135	0.11	-8.69	359.5	315	0.20	-10.00	334.5
140	0.12	-8.77	350.8	320	0.14	-10.00	334.5
145	0.11	-8.98	344.2	325	0.18	-10.00	334.5
150	0.12	-9.29	338.9	330	0.10	-10.00	334.5
155	0.09	-9.73	334.6	335	0.14	-10.00	334.5
160	0.09	-10.00	334.5	340	0.26	-8.81	315.6
165	0.08	-10.00	334.5	345	0.25	-6.00	316.3
170	0.14	-10.00	334.5	350	0.25	-6.00	315.9
175	0.15	-10.00	334.5	355	0.27	-6.84	314.9

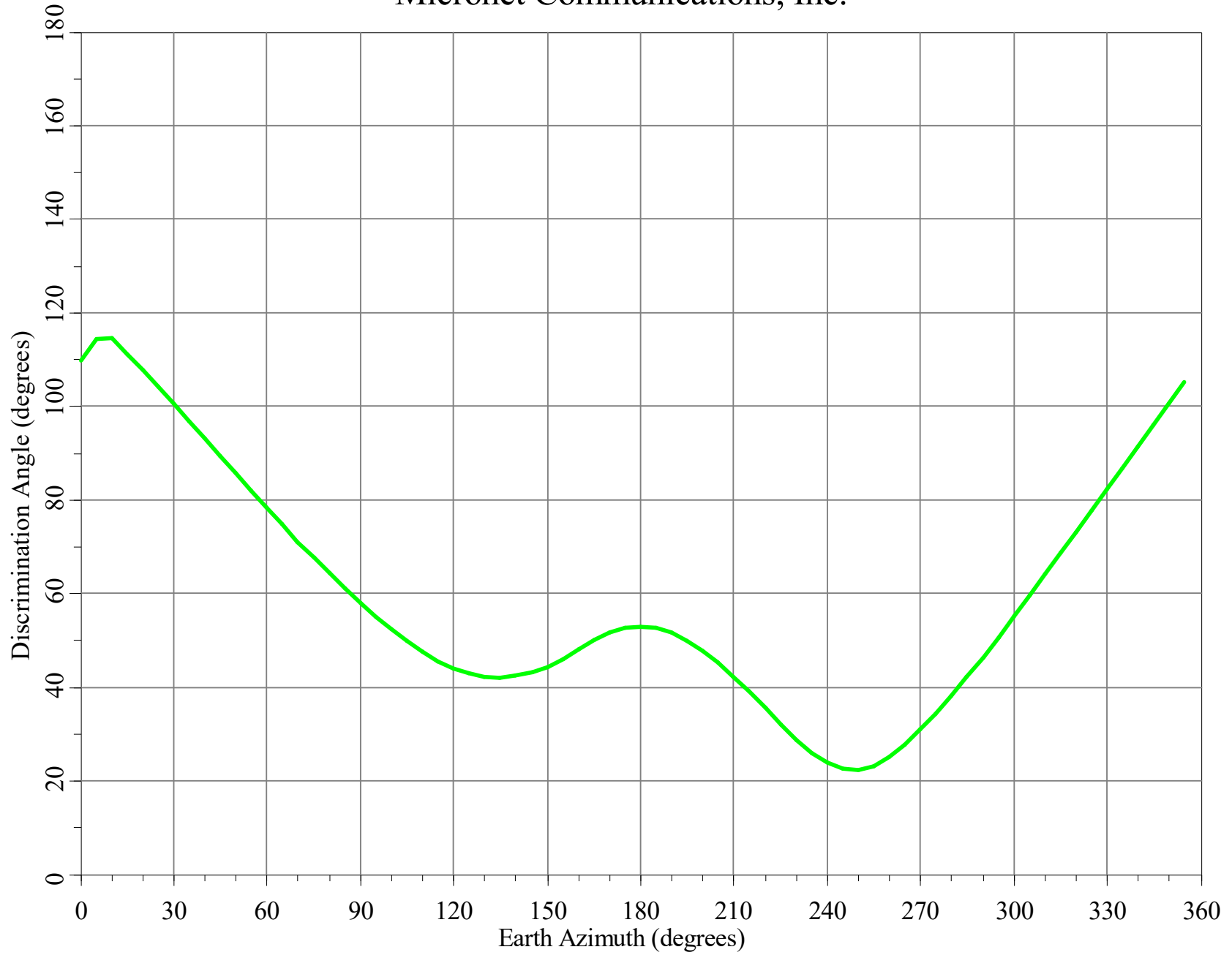
Horizon Angle & Satellite Arc for Southern, AL Micronet Communications, Inc.



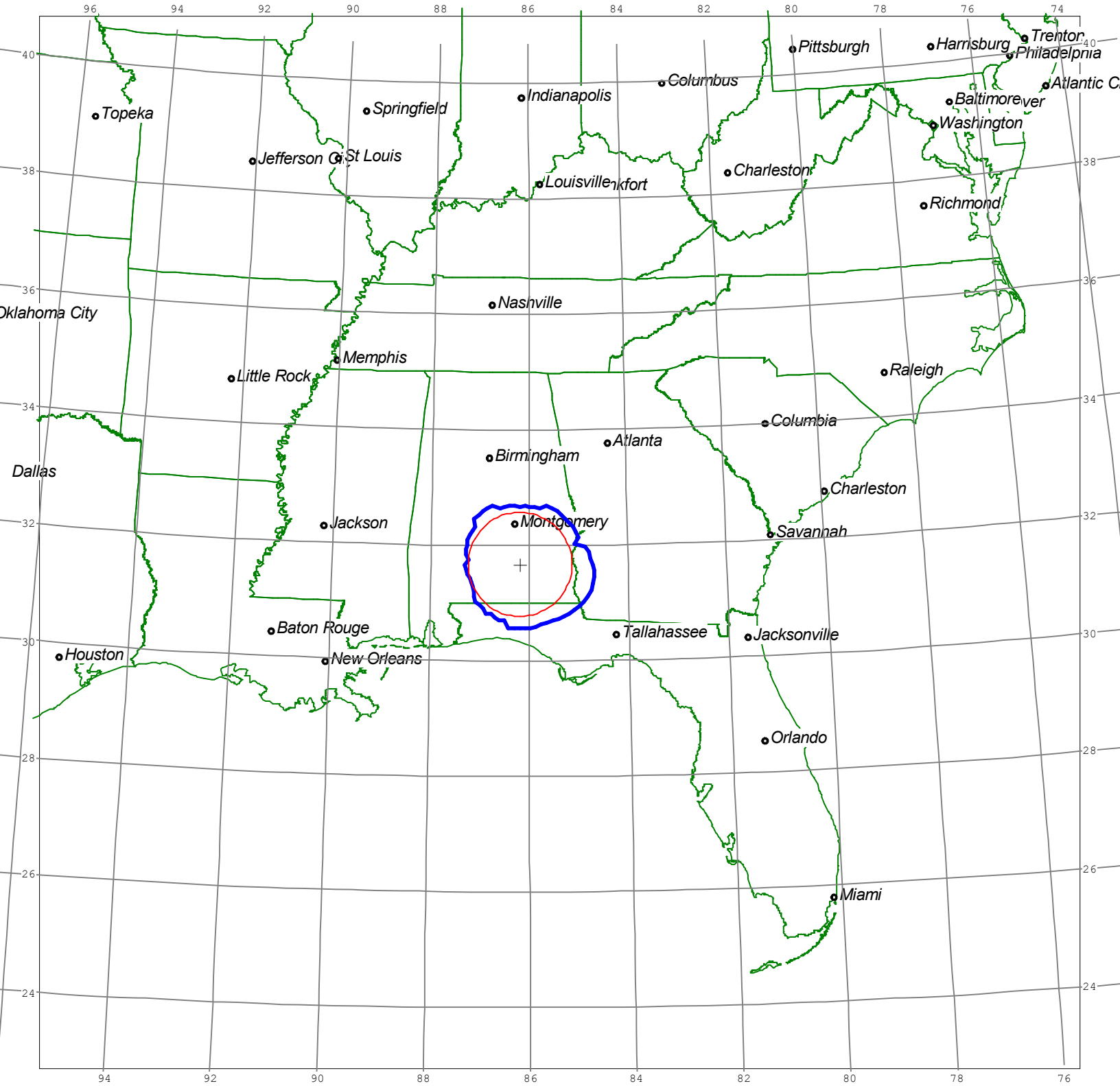
Horizon Gain for Southern, AL Micronet Communications, Inc.



Minimum Discrimination Angles for Southern, AL
Micronet Communications, Inc.



Final Contour & Rain Scatter for Southern, AL - Transmit



Final Contour & Rain Scatter for Southern, AL - Receive

SCALE - 1:10000000 1 inch = 157.8 miles

