

**Micronet Communications, Inc.**

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

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M1824813 5.93 GHz  
Licensee: EDUCATIONAL MEDIA FOUNDATION

Page 1

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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:

EMF, CA

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:

09/26/2018 Original PCN (Expedited response requested by 10/10/2018)  
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:

ALAMEDA, COUNTY OF  
AMERICAN TOWER, LLC  
AT&T MOBILITY SPECTRUM LLC  
AT&T MOBILITY WIRELESS OPERATIONS HOLDINGS INC.  
CALIFORNIA RESOURCES CORPORATION  
CALIFORNIA RURAL SERVICE AREA #1, INC.  
CALIFORNIA, STATE OF  
CBS BROADCASTING INC.  
CBS COMMUNICATIONS SERVICES INC.  
CELLCO PARTNERSHIP  
CITIZENS TELECOMMUNICATIONS COMPANY OF CALIFORNIA INC.  
CITY & COUNTY OF SAN FRANCISCO SFPUC ITS-SCADA  
COMSEARCH INC  
CONTRA COSTA, COUNTY OF  
COUNTY OF NAPA  
COUNTY OF SAN JOAQUIN  
CRYSTAL SMR INC.  
DIGITALPATH, INC.  
EAST BAY MUNICIPAL UTILITY DISTRICT  
FIELD, DAVID J  
GTE MOBILNET OF CALIFORNIA LIMITED PARTNERSHIP  
ION MEDIA SACRAMENTO LICENSE, INC.  
KGO TELEVISION, INC.  
KVIE, INC.  
LA RUE, JOHN K  
M.U.T. LICENSING, LLC  
MARIN, COUNTY OF  
MICRONET COMMUNICATIONS INC  
MODESTO IRRIGATION DISTRICT

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Page 2

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NEW CINGULAR WIRELESS PCS, LLC  
NEXTEL WEST CORP.  
NORTHSTAR SAN FRANCISCO LICENSE LLC  
OLYMPIC WIRELESS  
PACIFIC BELL TELEPHONE COMPANY D/B/A AT&T CALIFORNIA  
PACIFIC GAS AND ELECTRIC COMPANY  
PLACER COUNTY WATER AGENCY  
PLACER, COUNTY OF  
RADIO DYNAMICS  
SACRAMENTO MUNICIPAL UTILITY DISTRICT  
SACRAMENTO, COUNTY OF  
SAN FRANCISCO, CITY AND COUNTY OF  
SOLANO, COUNTY OF  
SONOMA, COUNTY OF  
UNION PACIFIC RAILROAD COMPANY  
VOLCANO TELEPHONE COMPANY  
WIRELESS APPLICATIONS CORP  
YOLO EMERGENCY COMMUNICATIONS AGENCY  
YOLO, COUNTY OF  
YUBA COUNTY WATER AGENCY

Respectfully Submitted,



Jeremy Lewis  
Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc.  
 720 F Avenue, Suite 100  
 Plano, Texas 75074  
 972-422-7200

File: M1824813

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

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|                                  |                              |  |        |
|----------------------------------|------------------------------|--|--------|
| Company:                         | EDUCATIONAL MEDIA FOUNDATION |  |        |
| Site Name, State:                | EMF, CA                      |  |        |
| Call Sign:                       |                              |  |        |
| Latitude                         | (NAD83)                      | 38 48  | 56.7 N |
| Longitude                        | (NAD83)                      | 121 16   | 41.4 W |
| Elevation AMSL                   | (ft/m)                       | 202.10   | 61.60  |
| Receive Frequency Range          | (MHz)                        | 3700-4200  |        |
| Transmit Frequency Range         | (MHz)                        | 5925-5930.2/6019.5-6024.15/6044.15-6108.1/6137.75-6211.89/6301.19-6425 |        |
| Range of Satellite Orbital Long. | (deg W)                      | 58.00  | 139.00 |
| Range of Azimuths from North     | (deg)                        | 107.51   | 207.01 |
| Antenna Centerline               | (ft/m)                       | 10.01  | 3.05   |
| Antenna Elevation Angles         | (deg)                        | 12.02  | 41.42  |

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| 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    | 2M67G7W | 100KG7W |

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| Coordination Parameters |  | Receive | Transmit |
|-------------------------|--|---------|----------|
|-------------------------|--|---------|----------|

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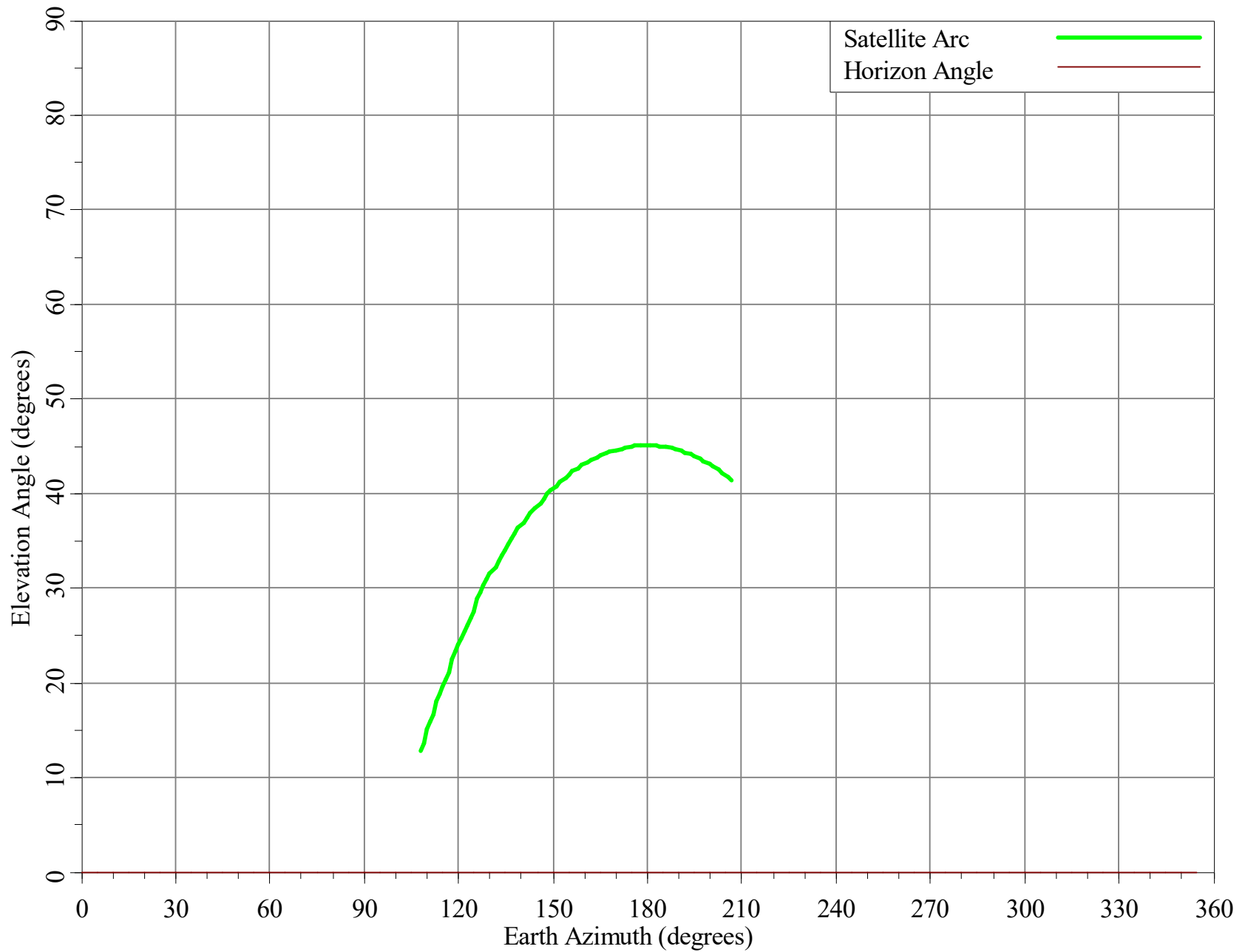
|                                   |       |         |         |
|-----------------------------------|-------|---------|---------|
| Max Greater Circle Distances      | (km)  | 468.24  | 171.99  |
| Max Rain Scatter Distances        | (km)  | 378.29  | 100.00  |
| Max Interference Power Long Term  | (dbW) | -158.60 | -154.80 |
| Max Interference Power Short Term | (dbW) | -149.90 | -130.80 |
| Rain Zone / Radio Zone            |       | 3       | A       |



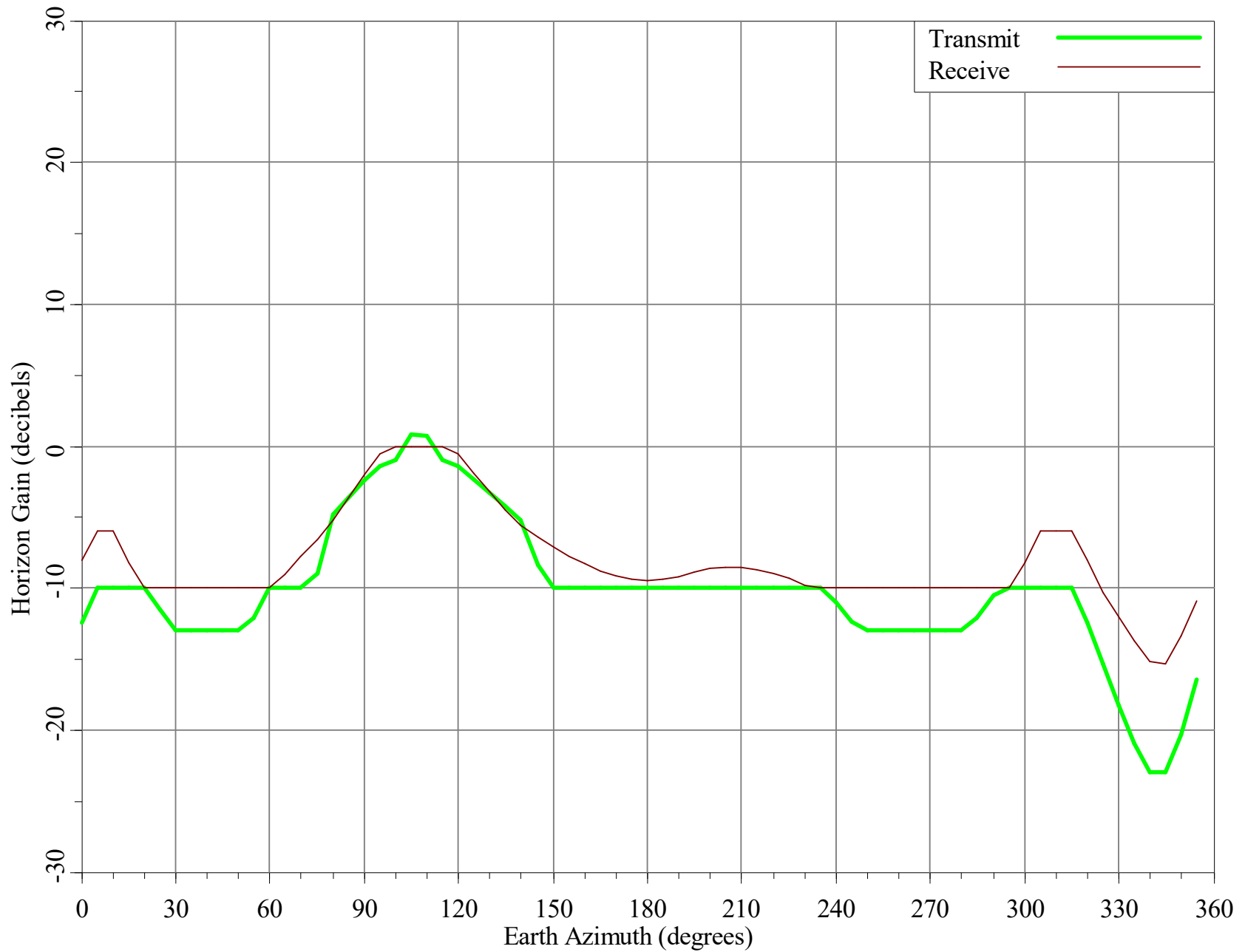


# Horizon Angle & Satellite Arc for EMF, CA

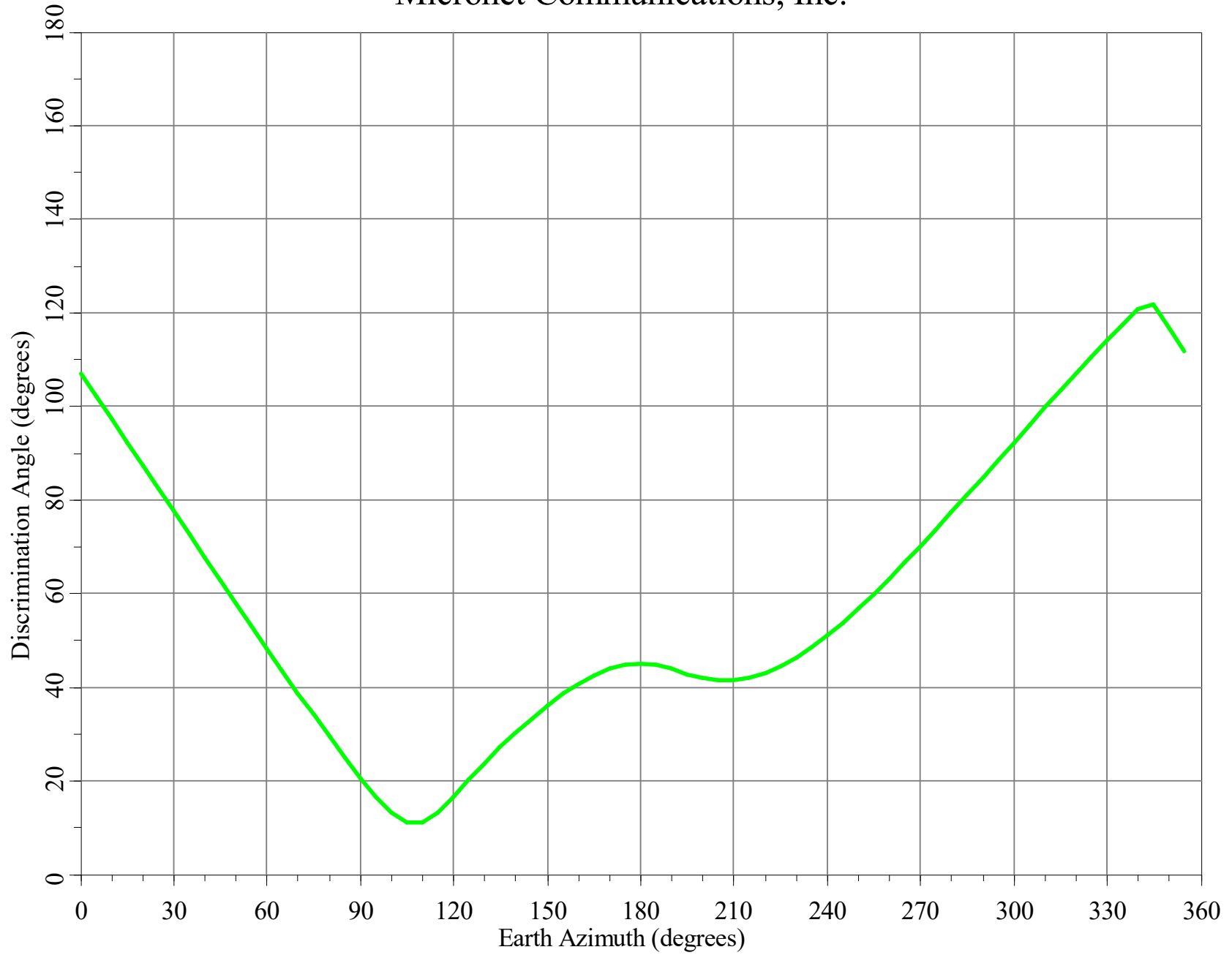
## Micronet Communications, Inc.



# Horizon Gain for EMF, CA Micronet Communications, Inc.

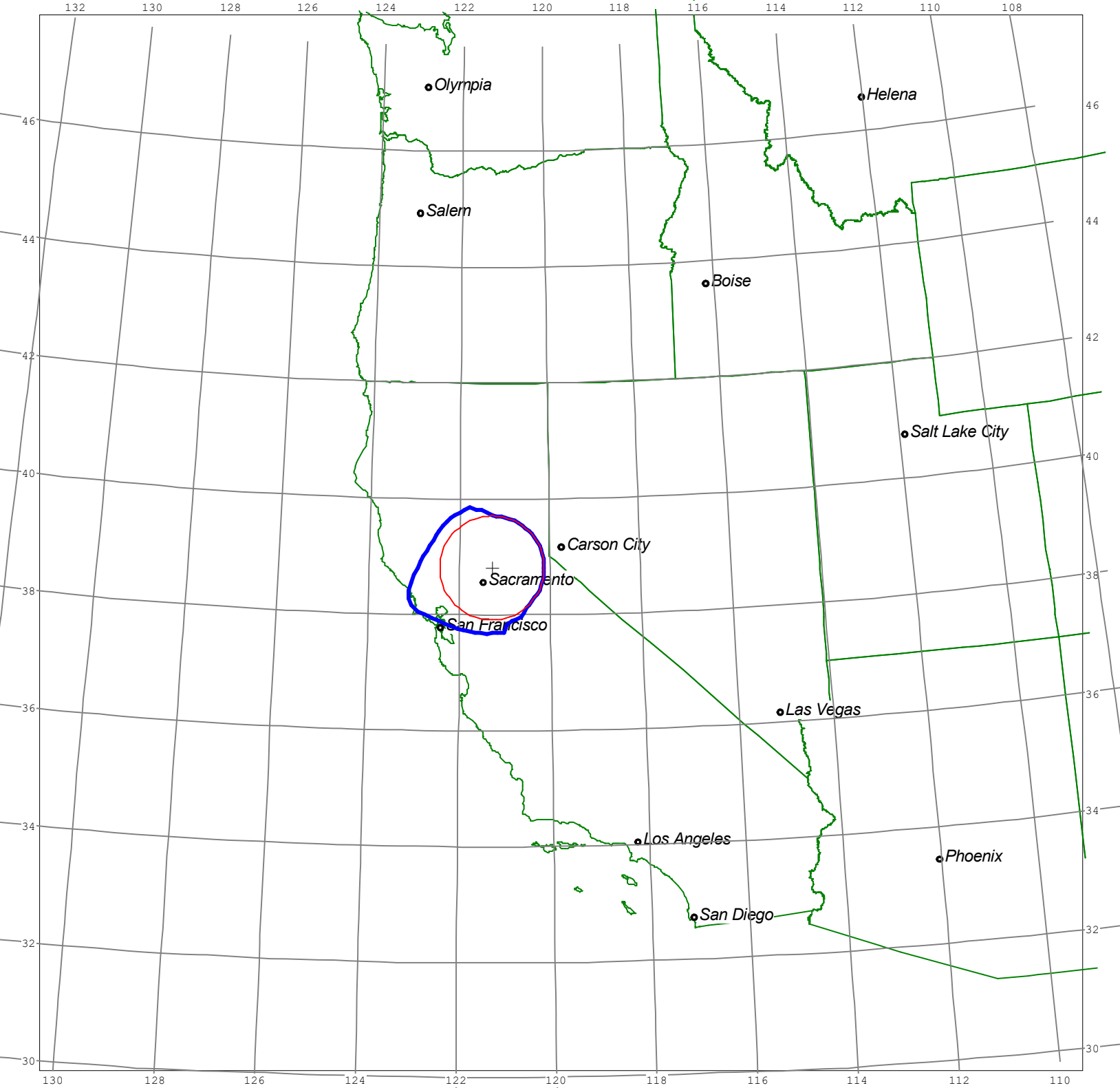
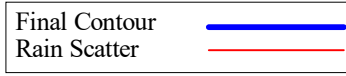


Minimum Discrimination Angles for EMF, CA  
Micronet Communications, Inc.





# Final Contour & Rain Scatter for EMF, CA - Transmit



SCALE - 1:10000000 1 inch = 157.8 miles

# Final Contour & Rain Scatter

## for EMF, CA - Receive

SCALE - 1:10000000 1 inch = 157.8 miles

