

INSTRUCTION MANUAL

PMB Broadcasting, LLC
102.5, 105.5, 106.5 MHz
Columbus, GA
Antenna Model: PSIFMLB-2C-75WS
W288CV, W293BV

Uncrating

When uncrating the antenna system, open each crate carefully so that the crates may be used to return any merchandise that may have been damaged in shipping. Separate all parts and confirm that all items on the packing list have been received. If any parts are missing, notify PSI or its agent prior to assembling the antenna. If any parts are damaged through shipment or are missing, promptly notify the shipping carrier and PSI.

General Notes

1. Review antenna elevation and plan the installation. The antenna brackets have been designed for 5.0" diameter tower leg only. Be aware of possible mounting conflicts such as other antennas, guy wires, tower leg flanges, conduits, etc. and plan accordingly.
2. All bays are to be aligned to the same azimuth angle.
3. Use only the supplied hardware.
4. Exercise care when connecting the 7-16 DIN connectors.
5. Check a bracket on the tower leg for proper fit.
6. Install one bay at a time.
7. Keep all transmission lines free from dirt and moisture. All Teflon insulators must be clean and dry.
8. The antenna does not require pressurization.
9. The antenna has been tuned at the factory and should not require field adjustment.
10. The antenna system should be tested before the erector leaves the premises to insure that the complete antenna system is functioning properly.

Installation Procedure

Step One

Starting with bay one carefully hoist the element and secure the bracket to the appropriate tower leg as shown in drawing 1549-001 using the supplied hardware described in drawing 1549-003. Position the antenna as shown in the direction of the principal community.

Step Two

Follow the same procedure with the remaining antenna bays. The elements are to be spaced as described in drawing 1549-001.

Step Three

Next attach the power divider to the tower leg using the supplied bracket as described in drawing 1549-004. Position the power divider near the center of radiation. Connect the 1/2" coaxial cables to each bay and power divider. Use caution when attaching the connectors to not split the connector fingers. Secure the cable to the tower leg with the supplied tie wraps. Do not crush the cable when tightening the tie wraps.

Step Four

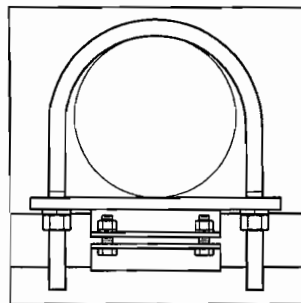
Check all bolted connections for tightness. Connect the main transmission line (not supplied) to the antenna input located at the base of the power divider. The antenna has a 7/8" E.I.A. input flange.

Drawing Index

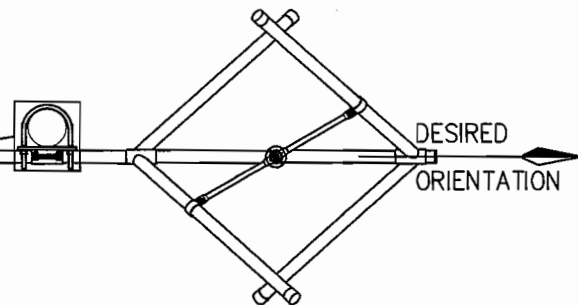
<u>Drawing</u>	<u>Title</u>
1549-001	Antenna Elevation, Specifications, and Orientation
1549-003	Saddle Bracket, Leg Mounted
1549-004	1-5/8" Support Bracket, Leg Mounted
24-00035	7/8 x 7-16 DIN Power Divider, 2-Way
31-00123	Coaxial Cable, 1/2", 50 Ohm, 7-16 DIN Connectors

Antenna Specifications

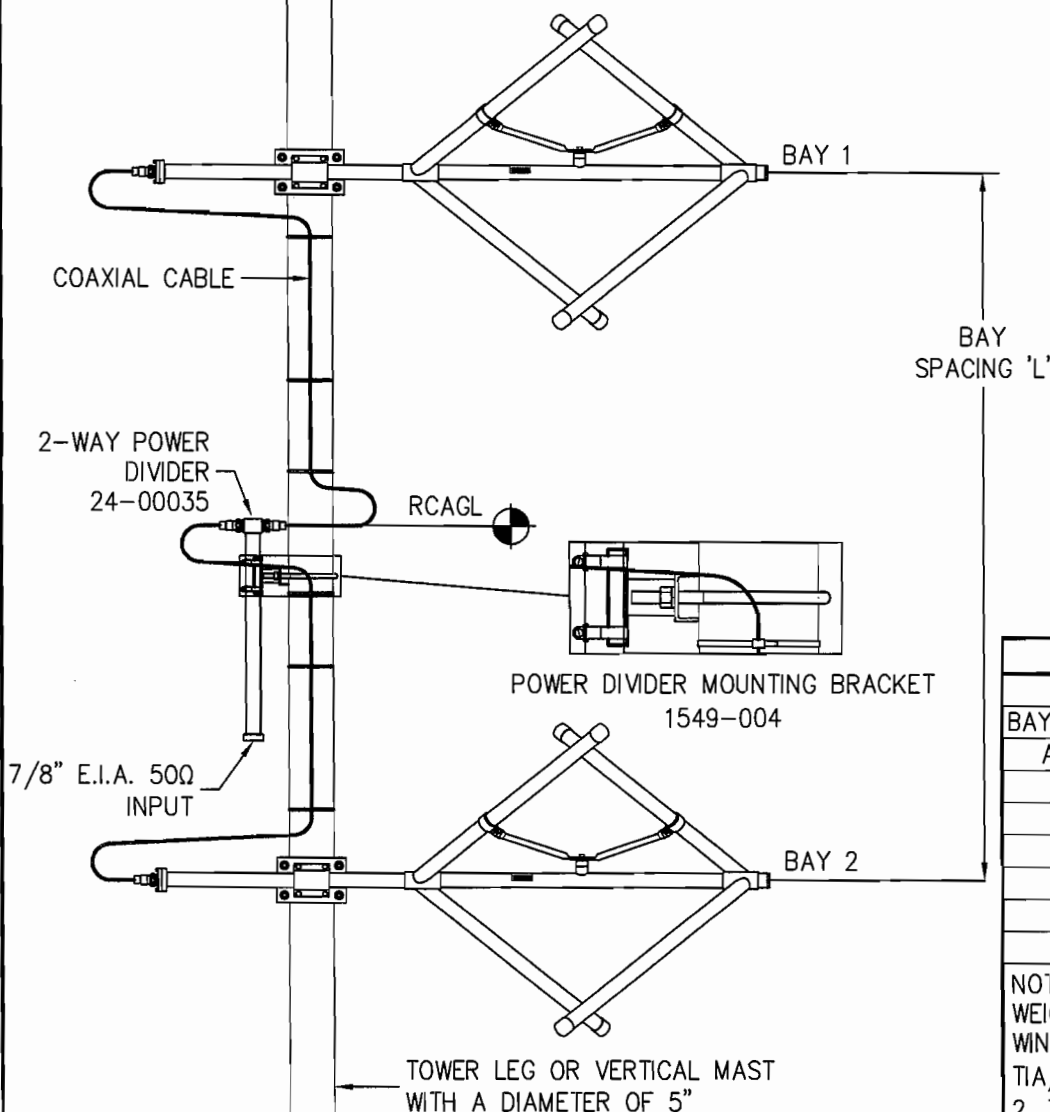
Model:	PSIFMLB-2C-75WS
Description:	2-Bay Low Power FM Broadcast Antenna
Frequency:	102.5, 105.5, 106.5 MHz
Polarization:	Circular
Bay Spacing:	$3/4 \lambda$
Gain:	.94 (-.27 dB)
Input:	7/8" E.I.A.
Power Rating:	1.5 kW
Length:	9.4 ft
Aperture:	7.06 ft
Weight:	48 lbs
Wind Area:	5.7 sq. ft



SADDLE BRACKET
1549-003



PLAN VIEW



SPECIFICATIONS	
SPACING:	0.75λ
BAY SPACING ('L'):	84.7 IN
APERTURE ('A'):	7.06 FT
RCAGL:	215 m
WEIGHT:	48 LB
WINDAREA:	5.7 FT ²
POWER RATING:	(1.5 kW)
GAIN:	0.94 (-0.27 dB)
POLARIZATION:	CIRCULAR
NOTE: 1. WEIGHT AND WINDAREA ARE ESTIMATED. WIND AREA IN ACCORDANCE WITH TIA/EIA-222-F $\Sigma(\text{CaAc})$	
2. TIEWRAP COAX CABLE AT $\pm 16''$ O.C.	

PROPAGATION SYSTEMS, INC.

Ebensburg, Pennsylvania USA 814-472-5540

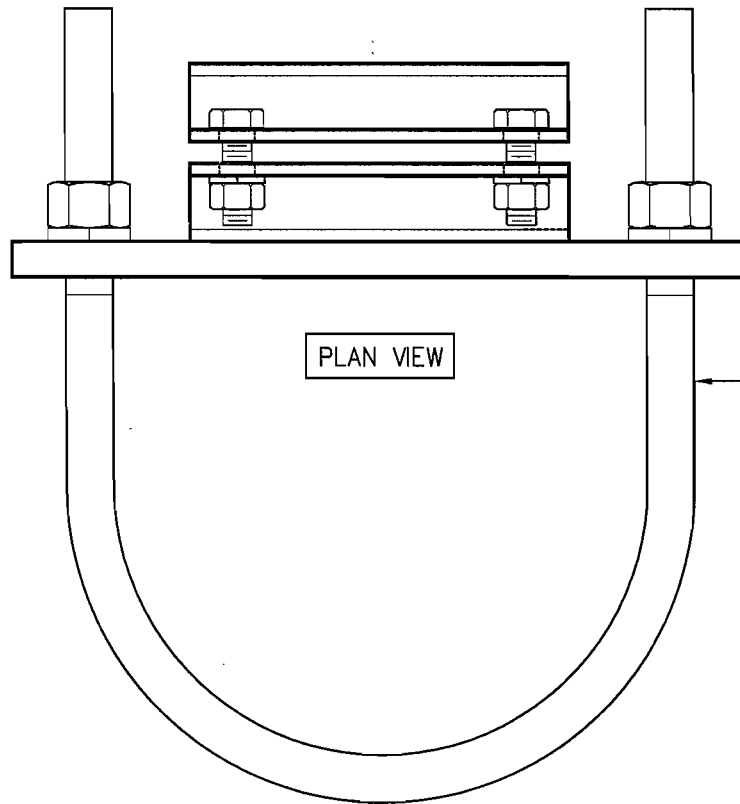
ANTENNA ELEVATION AND SPECIFICATIONS AND ORIENTATION

MODEL:	PSIFMLB-2C-75WS	DRAWN BY:	B.K.SCHILLING	DATE:	2/26/16
CHANNEL/ FREQUENCY:	102.5, 105.5, & 106.5 MHz	APPROVED BY:		DATE:	
SCALE:		DRAWING NO.:	1549-001	REV.	

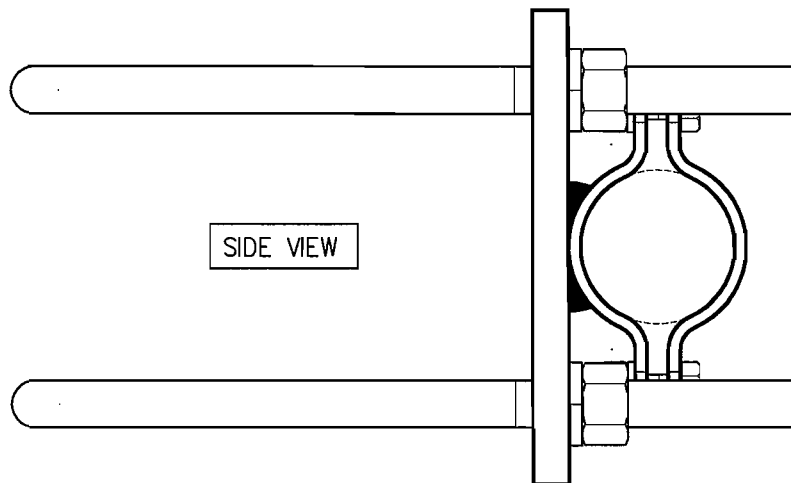
This drawing is loaned subject to the express understanding and agreement that the drawing and information therein contained are, and shall remain the property of PSI, and will not be otherwise utilized or disposed of, directly or indirectly, and will not be used in whole or in part or assist in making or finish any information for the making of drawings, prints or other reproductions hereof, or for the design or making of any item, parts, object, apparatus or parts thereof, except upon the written permissions of PSI first obtained. The acceptance of this drawing will be construed as an acceptance of the forgoing agreement.

SIZE

A



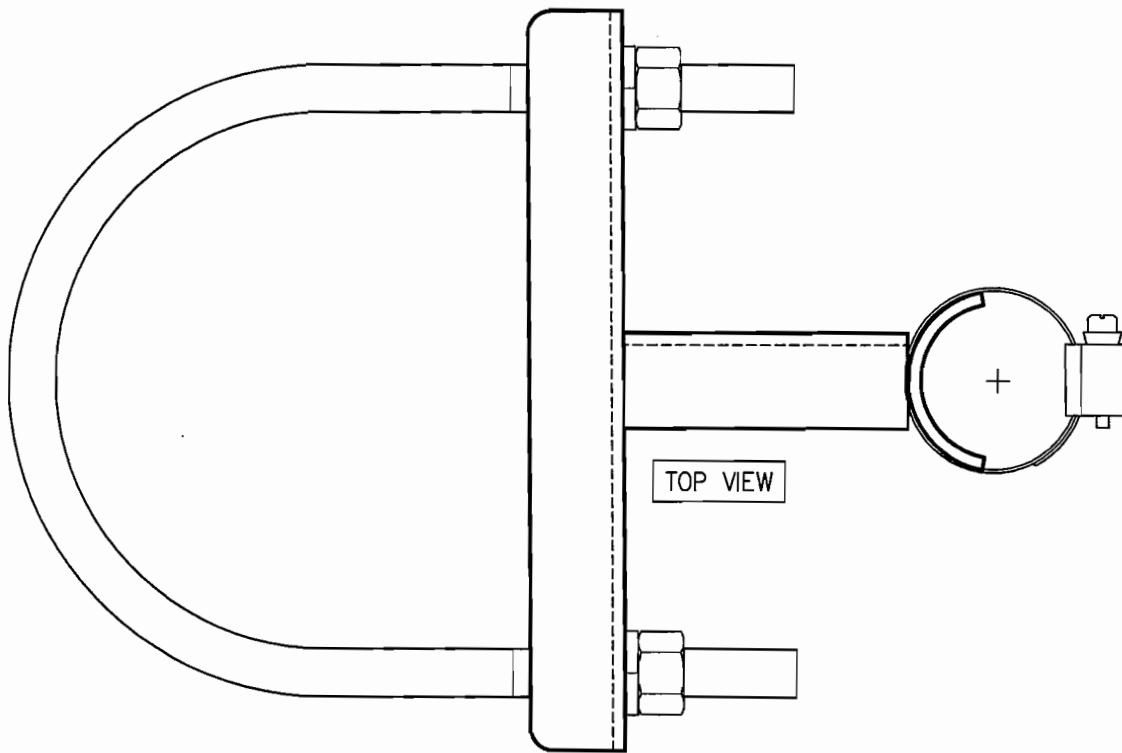
(2X) UB-137 5" STANDARD
(1/2-13 X 5-5/8 I.D.)



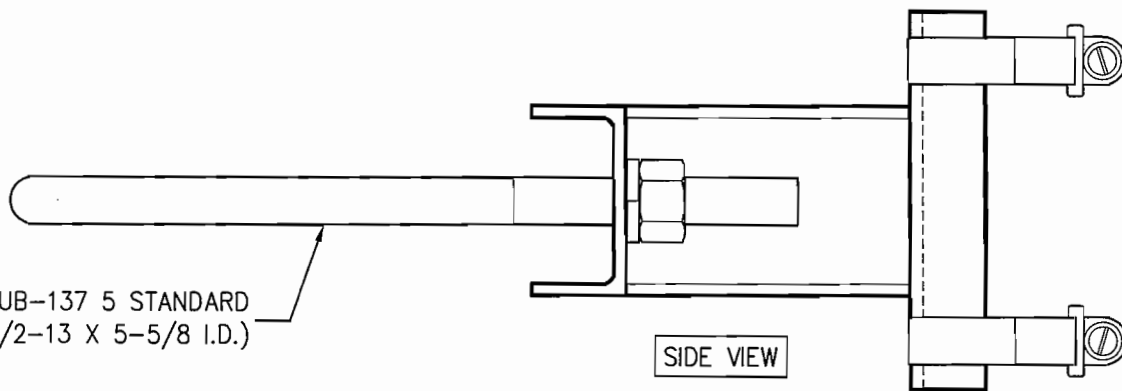
REV.	MADE BY CHECKED BY	DATE	CHANGE

This drawing is loaned subject to the express understanding and agreement that the drawing and information therein contained are, and shall remain the property of PSI, and will not be otherwise utilized or disposed of, directly or indirectly, and will not be used in whole or in part or assist in making or finish any information for the making of drawings, prints or other reproductions hereof, or for the design or making of any item, parts, object, apparatus or parts thereof, except upon the written permissions of PSI first obtained. The acceptance of this drawing will be construed as an acceptance of the forgoing agreement.

PROPAGATION SYSTEMS, INC.			
Ebensburg, Pennsylvania USA 814-472-5540			
SADDLE BRACKET, LEG MOUNTED			
MODEL: PSIFMLB-2C-75WS	DRAWN BY: B.K.SCHILLING	DATE: 2/22/16	
CHANNEL/ FREQUENCY: 102.5, 105.5, & 106.5 MHz	APPROVED BY:	DATE:	
SCALE: 1:2	DRAWING NO.: 1549-003	REV.	

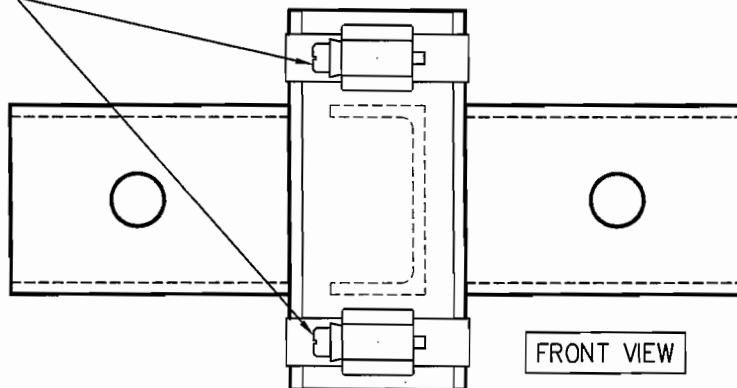


TOP VIEW



SIDE VIEW

2X #28 HOSE CLAMPS, SS



FRONT VIEW

PROPAGATION SYSTEMS, INC.

Ebensburg, Pennsylvania USA 814-472-5540

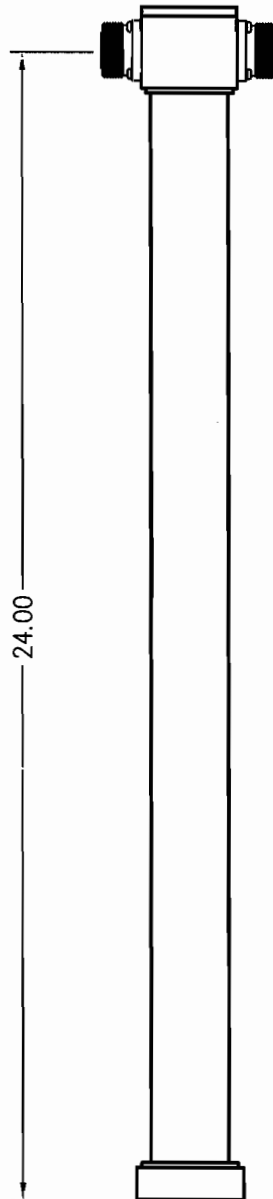
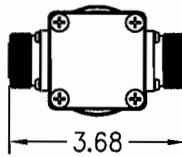
1-5/8 SUPPORT BRACKET, LEG MOUNTED

REV.	MADE BY CHECKED BY	DATE	CHANGE

This drawing is loaned subject to the express understanding and agreement that the drawing and information therein contained are, and shall remain the property of PSI, and will not be otherwise utilized or disposed of, directly or indirectly, and will not be used in whole or in part or assist in making or finish any information for the making of drawings, prints or other reproductions hereof, or for the design or making of any item, parts, object, apparatus or parts thereof, except upon the written permissions of PSI first obtained. The acceptance of this drawing will be construed as an acceptance of the forgoing agreement.

MODEL: PSIFMLB-2C-75WS	DRAWN BY: B.K.SCHILLING	DATE: 2/22/16
CHANNEL/ FREQUENCY: 102.5, 105.5, & 106.5 MHz	APPROVED BY:	DATE:
SCALE: 1:2	DRAWING NO.: 1549-004	REV.

A



SPECIFICATIONS	
WEIGHT:	5.7 Lb [2.6 Kg]
WIND AREA:	0.47 Ft ²
TIA-222-F	(NO ICE)

REV.	MADE BY CHECKED BY	DATE	CHANGE
<p>This drawing is loaned subject to the express understanding and agreement that the drawing and information therein contained are, and shall remain the property of PSI, and will not be otherwise utilized or disposed of, directly or indirectly, and will not be used in whole or in part or assist in making or finish any information for the making of drawings, prints or other reproductions hereof, or for the design or making of any item, parts, object, apparatus or parts thereof, except upon the written permissions of PSI first obtained. The acceptance of this drawing will be construed as an acceptance of the forgoing agreement.</p>			

PROPAGATION SYSTEMS, INC.

Ebensburg, Pennsylvania USA 814-472-5540

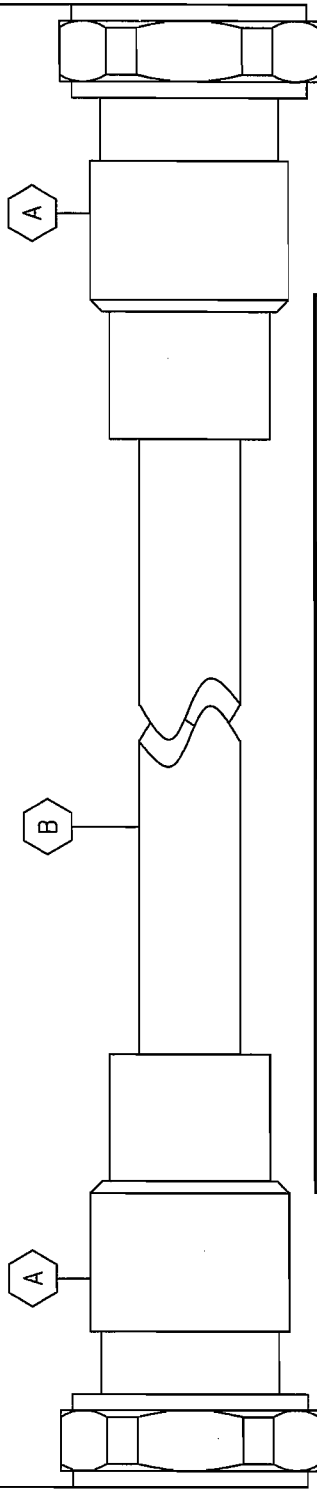
7/8" X 7-16 DIN POWER DIVIDER, 2-WAY

MODEL:	DRAWN BY: B.K.SCHILLING	DATE: 2/5/16
CHANNEL/ FREQUENCY:	APPROVED BY:	DATE:
SCALE: 3" = 1'-0"	DRAWING NO.: 24-00035	REV.

A

Spacing				.8λ to λ Spacing				.5λ to .75λ Spacing			
# of Bays	2-Bay	3-Bay	4-Bay	6-Bay	2-Bay	3-Bay	4-Bay	6-Bay	2-Bay	3-Bay	4-Bay
Bay # (qty)	(2)	1 & 3 (2)	1 & 4 (2)	2 & 3 (2)	1 & 6 (2)	2 & 5 (2)	3 & 4 (2)	1 & 8 (2)	2 & 3 (2)	1 & 6 (2)	2 & 5 (2)
Frequency Range	L'	L'	L'	L'	L'	L'	L'	L'	L'	L'	L'
88.1-89.9	95	162	44.9	228	111.2	361	243.8	127.1	79	128	195.7
90.1-91.9	94	159	44.6	224	109.4	353	239.1	125	78	126	192.1
92.1-93.9	93	156	44.2	219	107.7	346	234.6	122.9	77	124	188.7
94.1-95.9	91	153	43.9	215	106	340	230.3	120.9	76	122	185.3
96.1-97.9	90	151	43.6	212	104.4	333	226.1	119	75	120	182.1
98.1-99.9	89	148	43.3	208	102.9	327	222.1	117.2	74	118	178.9
100.1-101.9	88	146	43	204	101.5	321	218.3	115.5	73	117	175.8
102.1-103.9	86	144	42.8	201	100	315	214.6	113.8	72	115	172.8
104.1-105.9	85	141	42.5	198	98.7	310	211.1	112.2	71	113	169.9
106.1-107.9	84	139	42.2	195	87.4	305	207.7	110.6	70	112	167.1

FINISHED LENGTH



BILL OF MATERIAL

ITEM	PART NO.	DWG NO.	QTY.	U/M	DESCRIPTION
A	140-411		2	EA.	7/16 DIN MALE CONN, 1/2 FOAM CABLE
B	130-222		1	EA.	1/2" FOAM COXIAL CABLE (CHART)
C	140-297		2	EA.	1.1 DIA HEAT SHRINK, 3 IN

NOTES:

- CONNECTORS ADD 4-3/4" TO THE OVERALL OUTLENGTH OF COAXIAL CABLE
- REFER TO CONNECTOR INSTALLATION INSTRUCTIONS FOR ASSEMBLY DETAILS

MATERIAL:

SEE BILL OF MATERIAL

CHANGE

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TOLERANCES UNLESS OTHERWISE NOTED
 FRACTIONS X/8 ±1/16"
 DECIMALS XX ±.01"
 DECIMALS XXX ±.005"
 ANGLES ±.5°

SIZE
A

PROPAGATION SYSTEMS, INC.

Ebensburg, Pennsylvania USA

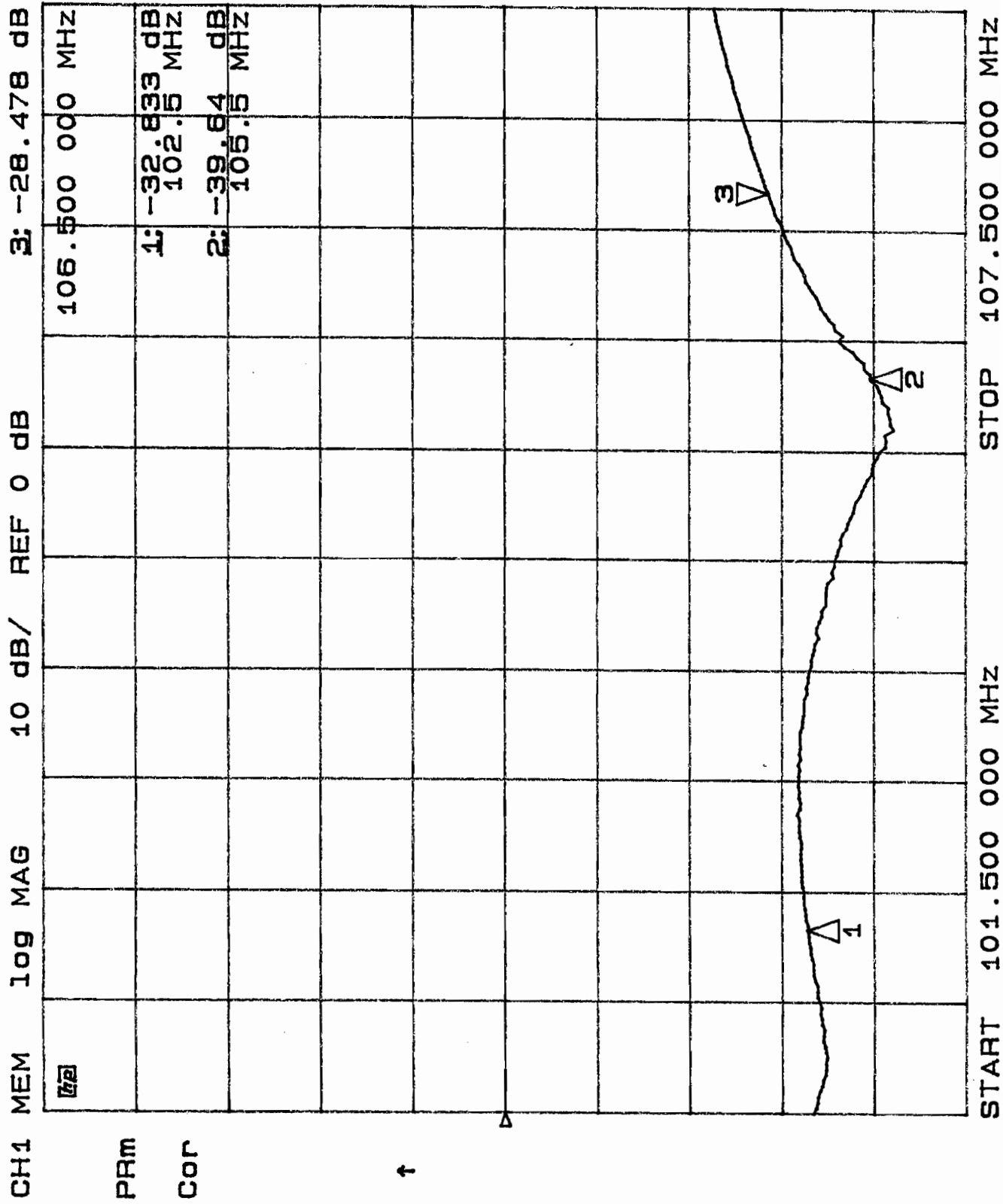
COAXIAL CABLE, 1/2", 50Ω, 7-16 DIN CONNECTORS

MODEL:	DRAWN BY:	DATE:
CHANNEL/FREQUENCY:	B.K.SCHILLING	6/12/14
APPROVED BY:		
SCALE:	PART NO.:	SHEET:
1:1	400-044	31-00123
		REV.

3.1.16

Job 1549

Page 2





Propagation Systems, Inc.

Quality Broadcast Antenna Systems

719 Pensacola Rd.
Ebensburg, PA 15931
United States of America

Phone: 814-472-5540

Fax: 814-472-5676

Packing List

Job Number: 1549

Ready Date: 3/10/16

Sold To

PMB Broadcasting, LLC
1820 Wynnton Road
Columbus, GA 31906
United States of America

Ship To

PMB Broadcasting, LLC c/o WLTZ-TV
6140 Buena Vista Road
Attn: Frank McLemore
Columbus, GA 31907
United States of America

Purchase Order	Ship Via
	Best Method

Quantity Description

PSIFMLB-2C-75WS

2-Bay Low Power Broadband FM Antenna for 102.5, 105.5 & 106.5 MHz
Circular polarization, 7/8" EIA input, 1.5 kW power rating, 3/4 wave spacing, gain 0.94 (-0.27 dB).
Includes interbay cables using 1/2" foam coax with 7-16 DIN connectors with a 7/8" to 7-16 DIN power divider.

SEE ADDITIONAL COSTS

Additional Items

SPEC MOUNT

SECOND PAYMENT

			Piece	Shipped Quantity:
5	UB137-5 STANDARD ASSEMBLY	(1/2-13 X 5-5/8" ID) WITH NUT AND LOCK	1	5
10	CABLE TIE 15" HEAVY DUTY		1	10
2	#28 HSS28 HOSE CLAMPS		1	2
2	FMLB- C BAY	CUSTOM MOUNTS FOR 5" LEG INSTALLED	1	2
1	POWER DIVIDER SUPPORT BRACKET	DESIGNED FOR 5" TOWER LEG	1	1
2	LCF12-50J- 7/16C- 71"		1	2
1	7/8 - 7/16 2-WAY POWER DIVIDER		1	1

Piece #1

Type: Pallet - Box - Crate - Steel Pipe - Tube - Reel

Dimensions 40" X 48" X 75"

Weight 137 LBS



STRAIGHT BILL OF LADING

ISO-9001 & 14001

DRIVER PLEASE NOTE

IF SINGLE SHIPMENT
CHECK BOX BELOW



SHIPPER
PLEASE NOTE

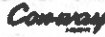
FREIGHT CHARGES ARE PREPAID UNLESS MARKED COLLECT

☐ COLLECT

ORIGINAL - NOT NEGOTIABLE

Driver's signature acknowledges receipt of freight only. Received shipment is subject to terms of a written contract. If any, otherwise subject to the terms, conditions and limitations of liability set forth in tariff CNWY 199. (see www.Mycn-way.com)

580-089215



DATE	P.O. NO.	SHIPPER NO.
3/15/16		1549
CUSTOMER'S SPECIAL REFERENCE NUMBER		
1549		

SHIPPER (FROM)		CONSIGNEE (TO)	
PROPAGATION SYSTEMS, INC.		PMB BROADCASTING, LLC	
STREET		C/O WLTZ-TV ATTN: FRANK MCLEMORE	
719 PENSACOLA ROAD		STREET	
CITY, STATE/PROVINCE, ZIP/POSTAL CODE		6140 BUENA VISTA ROAD	
(TELEPHONE)		CITY, STATE/PROVINCE, ZIP/POSTAL CODE	
EBENSBURG, PA 15931		(TELEPHONE)	
814-472-5540		COLUMBUS, GA 31907	
706-587-8964		BILL TO	
PROPAGATION SYSTEMS, INC.		CUSTOMS BROKER	
STREET		STREET	
PO BOX 113		CITY, STATE/PROVINCE, ZIP/POSTAL CODE	
CITY, STATE/PROVINCE, ZIP/POSTAL CODE		(TELEPHONE)	
(TELEPHONE)		EBENSBURG, PA 15931	
814-472-5540		ACCOUNT CODE	
<input type="checkbox"/> Con-way GUARANTEED			

NUMBER SHIPPING UNITS	HM	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS (SUBJECT TO INSPECTION AND CORRECTION)	NMFC NO.	CLASS OR DENSITY OF ARTICLES	WEIGHT (Subject to Correction) <input type="checkbox"/> lb <input type="checkbox"/> kg
1		SKID, BROADCAST ANTENNA & PARTS	60535-2	300	137
		PLEASE HANDLE CAREFULLY			
		VERY FRAGILE <i>Shel</i>			

COD AMOUNT: \$ _____ COD ☐ Prepaid
☐ U.S. ☐ Canadian Fee: ☐ Collect

NOTE: Consignee's company check made payable to the Shipper will be accepted by Con-way and forwarded to shipper unless otherwise directed to do so by the shipper.

REMIT COD TO
ADDRESS
CITY STATE/PROVINCE ZIP/POSTAL CODE

Notice: Unless the Shipper completes the requirements as provided below, Carrier's liability shall be limited as stated herein and in Tariff CNWY 199, which may be obtained by request. Carrier shall in no event be liable for loss of profit, income, interest, attorney fees, or any special, incidental or consequential damages. Where the rate or NMFC classification is dependent on value, shippers are required to state specifically in writing the declared value of the property. For this purpose the declared value of the property is hereby specifically stated by the Shipper to be not exceeding \$ _____. Also, paragraph number 2 on the reverse side of this Bill of Lading sets forth released value terms and conditions.

Carrier liability with shipment originating within the United States: Unless the Shipper declares excess value on the Bill of Lading below, requests excess liability coverage and pays an additional charge, Carrier's maximum liability is \$25.00 per pound per individual lost or damaged piece within the shipment, subject to \$150,000.00 maximum total liability per shipment, and provided further that Carrier's liability on articles other than new articles, including but not limited to used, remanufactured or refurbished articles, shall not exceed ten cents (\$0.10) per pound per individual lost or damaged piece within the shipment. And, provided further, that Carrier's liability on household goods and personal effects shall not exceed ten cents (\$0.10) per pound per individual lost or damaged piece within the shipment. For this purpose the declared value of the property is hereby specifically stated by the Shipper to be \$ _____, and Shipper agrees to pay an additional charge for excess liability coverage. Total declared value may not exceed \$850,000.00 per shipment.

Carrier liability with shipment originating within Canada: Unless the Shipper agrees to a Special Agreement, declares the value in the box below and agrees to pay the excess liability charge by initialing where indicated, Carrier's maximum liability is CAN\$2.00 per pound (CAN\$4.41 per kilogram) per individual lost or damaged piece within the shipment, subject to a maximum total liability per shipment of CAN\$20,000.00, and provided further that Carrier's liability on articles other than new articles, including but not limited to used, remanufactured or refurbished articles, shall not exceed ten cents (\$0.10) (CAN) per pound per individual lost or damaged piece within the shipment. And, provided further, that Carrier's liability on household goods and personal effects shall not exceed ten cents (\$0.10) (CAN) per pound per individual lost or damaged piece within the shipment.

SPECIAL AGREEMENT: Declared Value: CAN \$ _____ per pound. (Declared value may not exceed CAN \$100,000.00 per shipment.)
Shipper agrees to pay excess liability charge: _____ (Shipper's Initials)

Shipper Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are properly classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable governmental laws and regulations as well as Carrier's tariffs and NMFC classifications.

Shipment Received: The shipment is received subject to Tariff CNWY-199, Carrier's pricing schedules, terms, conditions and rules maintained at Carrier's general offices in effect on the date of issue of this Bill of Lading, as well as the National Motor Freight Classifications (NMFC), the Hazardous Materials Transportation Regulations (Title 49 - CFR, Subtitle B, Chapter 1, Sub Chapter A-C), and the Household Goods Mileage Guide (HHGB 105 Series), for shipments originating in the United States; and the Canadian Motor Vehicle Transport Act, the Transportation of Dangerous Goods Act, and the regulations in force in the provincial jurisdiction at the time and place of the shipment for shipments originating in Canada. The property described on this Bill of Lading is in apparent good order, but only to the extent that it is unconcealed and visible without further inspection and except as noted or marked. The property is consigned and destined as indicated above. The word Carrier is defined throughout this contract as meaning any person or corporation in possession of the property under this contract. Carrier agrees to carry the property to its destination, if on its route, otherwise to deliver to another Carrier on the route to said destination. In the event no markings are indicated on the Bill of Lading stating that the shipment is to be billed as PPD or COL, all shipments will be billed as PPD. It is mutually agreed as to each Carrier of all or any of said property, over all or any portion of said route to the destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all of this Bill of Lading's terms and conditions in effect on the date of shipment, including, but not limited to, the "Terms and Conditions" listed on the back side of this Bill of Lading.

SHIPPER	CARRIER	DATE	NUMBER OF UNITS RECEIVED
PROPAGATION SYSTEMS, INC.	<input checked="" type="checkbox"/> CON-WAY FREIGHT INC. <input type="checkbox"/> CON-WAY FREIGHT-CANADA INC.		
AUTHORIZED SIGNATURE	AUTHORIZED SIGNATURE		
<i>Trisha Ross</i> 3-15-16	<i>John L</i>	3/15/16	1



Propagation Systems, Inc.

Quality Broadcast Antenna Systems

SHIPMENT CONFIRMATION

Customer Name:	PMB Broadcasting, LLC
Contact Name:	Joseph Brannan
Reference:	102.5 MHz & W288CV & W293BV
Fax Number/Email:	jbrannan@pmbradio.com
Job Number:	1549
Model #:	PSIFMLB-2C-75WS
Date of Shipment:	3/15/2016
Expected Delivery Date:	3/17/2016
Number of Pieces:	1
Trucking Company:	Con-Way Freight / XPOLogistics
Tracking Number:	580-089215
Delivering Terminal:	Newnan, Georgia
Terminal Phone Number:	(770) 252-2728

****IF YOUR SHIPMENT APPEARS TO BE DAMAGED, DO NOT ACCEPT THE SHIPMENT WITHOUT OPENING THE BOXES AND INSPECTING THE CONTENTS. ANY DAMAGE OR SHORTAGE MUST BE CLEARLY MARKED ON THE DELIVERY RECEIPT.**

IF THE DELIVERY SITE IS UNMANNED, IT IS THE CUSTOMER'S RESPONSIBILITY TO CONTACT THE LOCAL TERMINAL TO ARRANGE THE DELIVERY.

Please contact PSI immediately if you encounter any problems.

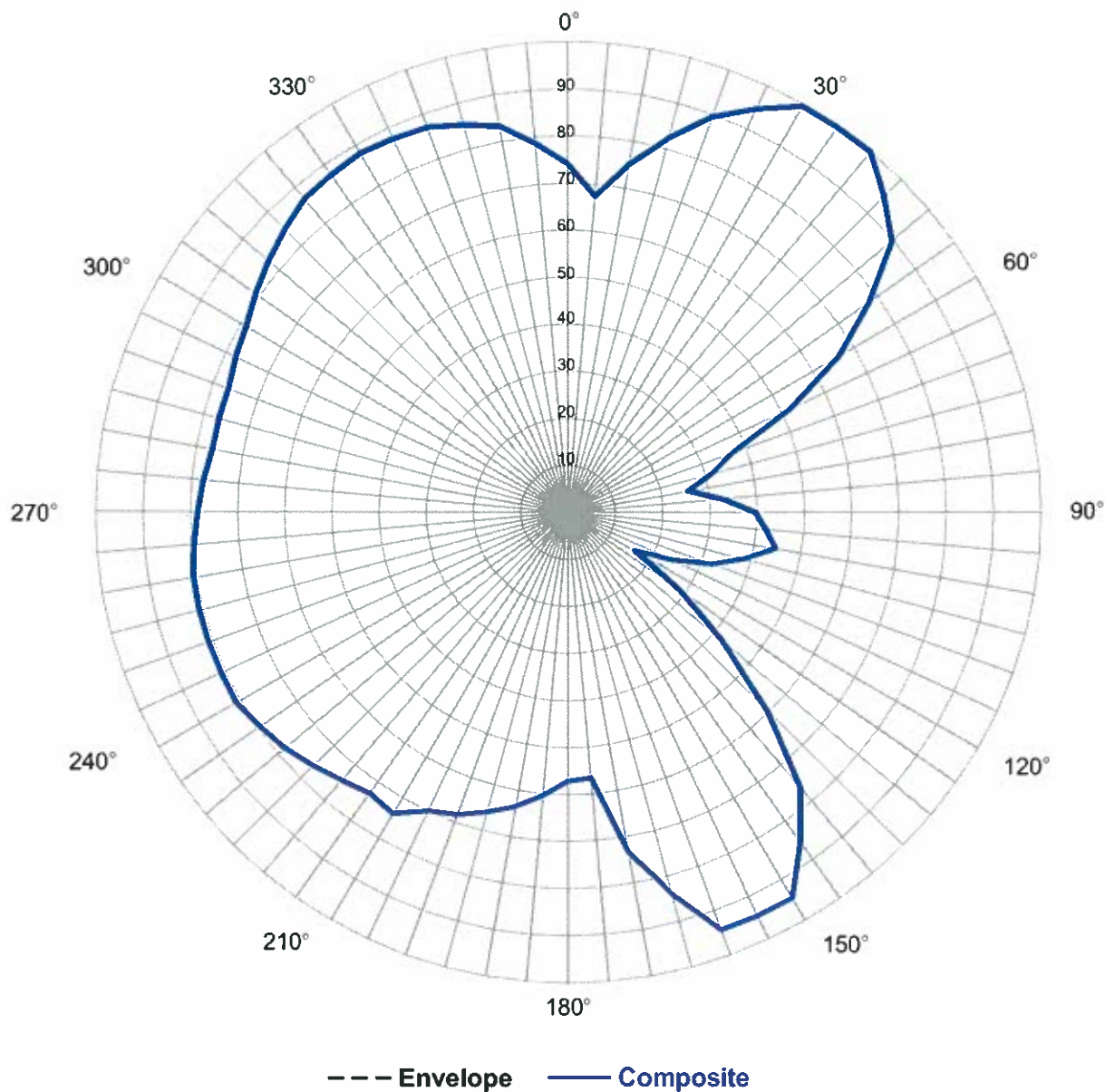
Phone: 814-472-5540

Fax: 814-472-5676

Thank-you for your order.



**Relative Field
Azimuth Plane Pattern**



Pattern Type:	Composite	Tower:	G7
Antenna Model:	PSIFMLB-2C-75WS	Orientation:	30,150,270 degrees
Polarization:	Circular	Mounting:	Direct leg mount
Gain:	.94 (-.27 dB)	Reference:	W273CW
Position:	270 degrees	Date:	6/8/2016

Composite Pattern Tabulation

Antenna:

PSIFMLB-2C-75WS

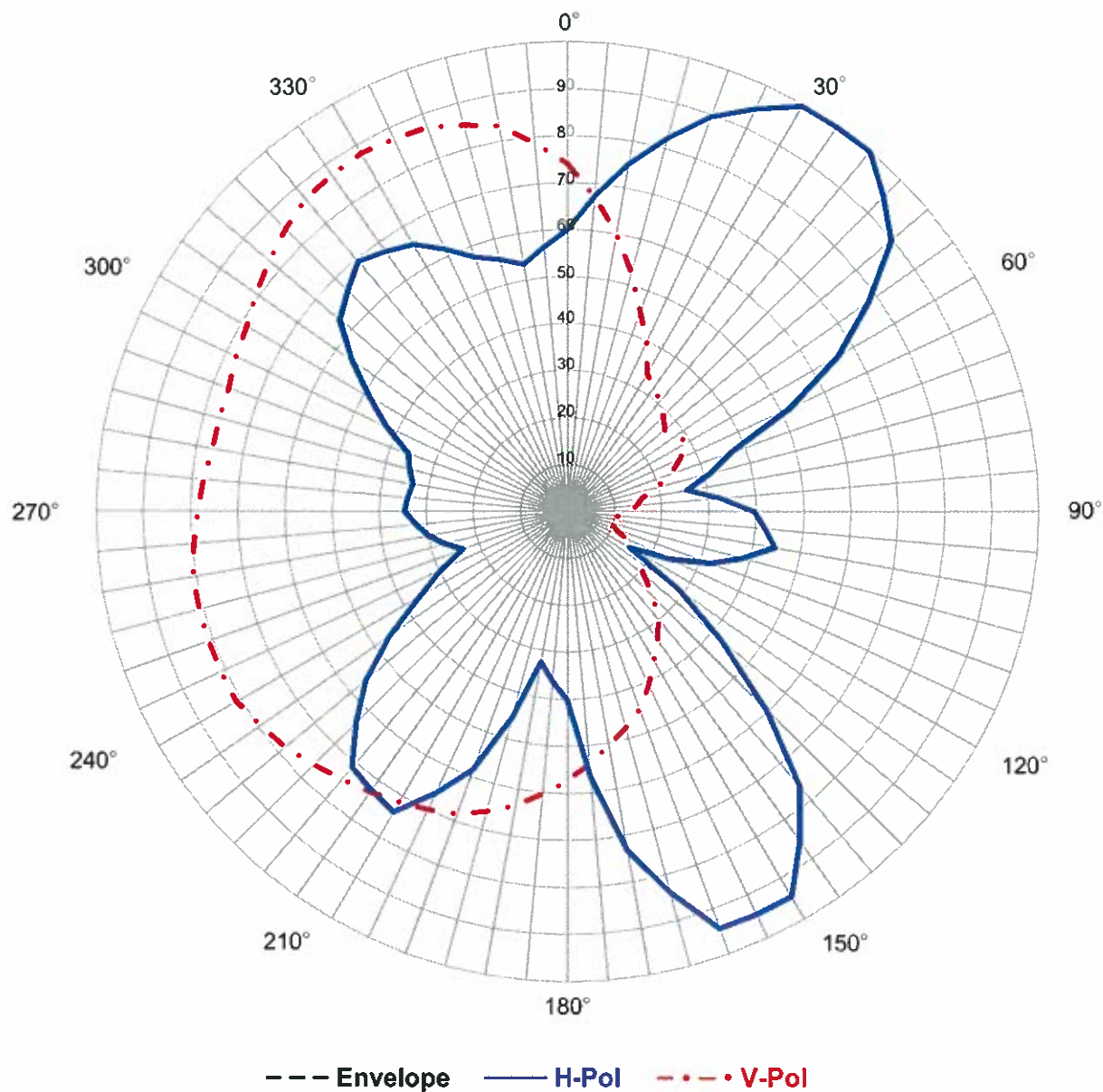
Station: W273CW

Frequency: 102.5 MHz

Angle	Relative Field	Gain	Gain (dB)	Angle	Relative Field	Gain	Gain (dB)
0	0.742	0.676	-1.70	180	0.572	0.403	-3.95
5	0.674	0.559	-2.53	185	0.603	0.448	-3.49
10	0.750	0.692	-1.60	190	0.635	0.496	-3.05
15	0.822	0.832	-0.80	195	0.659	0.535	-2.72
20	0.895	0.985	-0.06	200	0.684	0.576	-2.40
25	0.945	1.100	0.41	205	0.700	0.602	-2.20
30	0.996	1.220	0.86	210	0.739	0.672	-1.72
35	0.998	1.225	0.88	215	0.730	0.655	-1.84
40	1.000	1.230	0.90	220	0.744	0.681	-1.67
45	0.949	1.107	0.44	225	0.762	0.715	-1.46
50	0.898	0.991	-0.04	230	0.781	0.749	-1.25
55	0.780	0.749	-1.26	235	0.796	0.779	-1.09
60	0.663	0.540	-2.67	240	0.811	0.808	-0.92
65	0.518	0.329	-4.82	245	0.811	0.808	-0.92
70	0.372	0.170	-7.68	250	0.811	0.808	-0.92
75	0.315	0.122	-9.14	255	0.809	0.804	-0.94
80	0.257	0.081	-10.89	260	0.807	0.801	-0.97
85	0.327	0.131	-8.82	265	0.796	0.780	-1.08
90	0.396	0.193	-7.15	270	0.786	0.759	-1.20
95	0.421	0.218	-6.62	275	0.776	0.741	-1.30
100	0.445	0.244	-6.13	280	0.766	0.722	-1.42
105	0.384	0.181	-7.42	285	0.766	0.722	-1.41
110	0.322	0.127	-8.95	290	0.766	0.722	-1.41
115	0.237	0.069	-11.59	295	0.777	0.743	-1.29
120	0.164	0.033	-14.80	300	0.788	0.764	-1.17
125	0.289	0.102	-9.90	305	0.809	0.804	-0.95
130	0.424	0.221	-6.55	310	0.829	0.846	-0.73
135	0.594	0.434	-3.62	315	0.849	0.886	-0.52
140	0.764	0.718	-1.44	320	0.869	0.928	-0.33
145	0.855	0.900	-0.46	325	0.874	0.940	-0.27
150	0.947	1.102	0.42	330	0.880	0.953	-0.21
155	0.945	1.099	0.41	335	0.876	0.943	-0.26
160	0.944	1.096	0.40	340	0.871	0.933	-0.30
165	0.838	0.864	-0.63	345	0.852	0.892	-0.49
170	0.733	0.660	-1.80	350	0.833	0.853	-0.69
175	0.567	0.395	-4.03	355	0.787	0.762	-1.18



Relative Field Azimuth Plane Pattern



Pattern Type:	Relative Field	Tower:	G7
Antenna Model:	PSIFMLB-2C-75W	Orientation:	30,150,270 degrees
Polarization:	Circular	Mounting:	Direct leg mount
Gain:	.94 (-.27 dB)	Reference:	W273CW
Position:	270 degrees	Date:	6/8/2016

Measured Relative Field Tabulation

Antenna:

PSIFMLB-2C-75WS

Station: W273CW

Frequency: 102.5 MHz

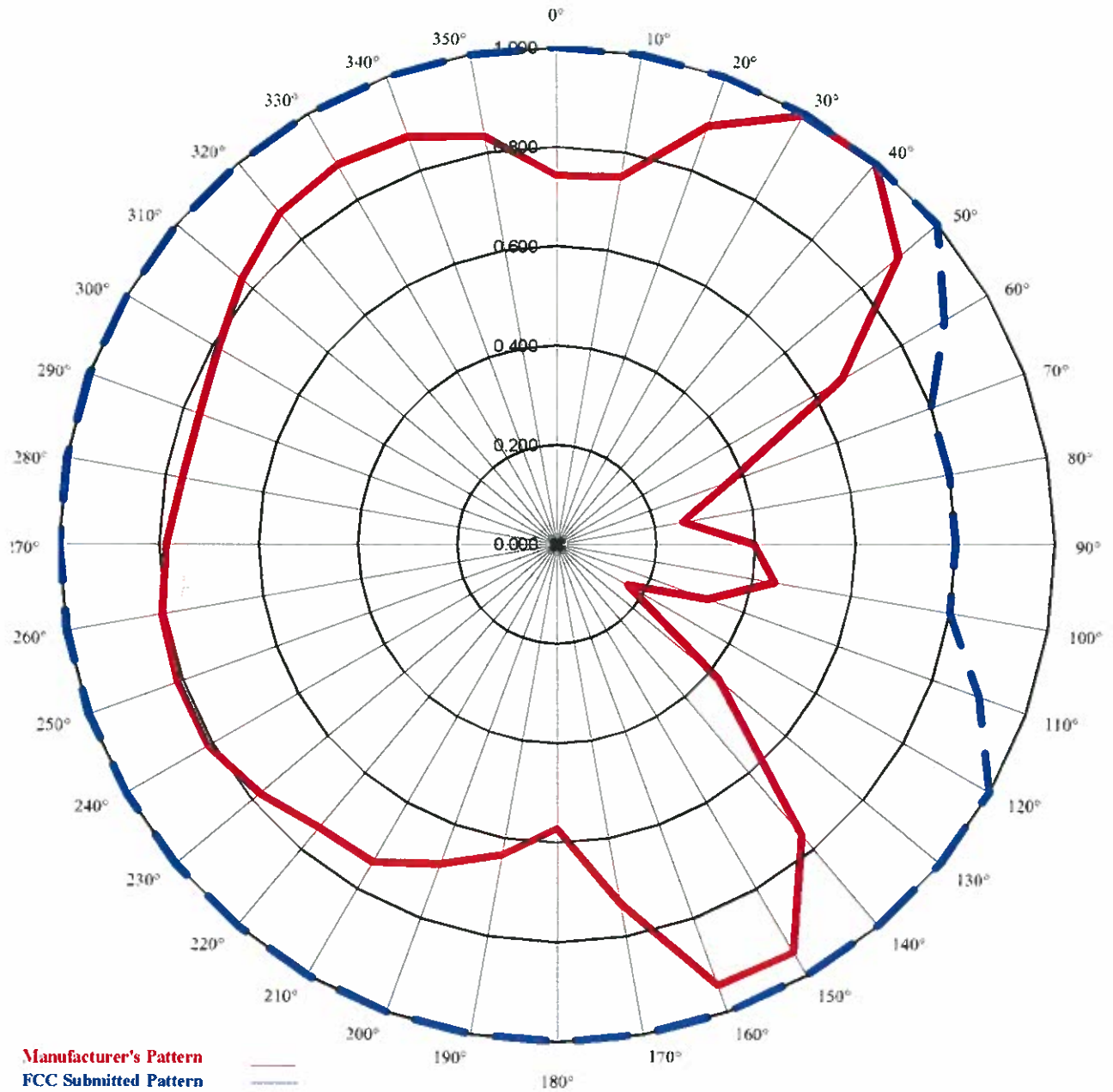
Horizontal Polarization

Angle	Relative Field	Power Gain	Gain (dB)
0	0.599	0.441	-3.55
10	0.750	0.692	-1.60
20	0.895	0.985	-0.06
30	0.996	1.220	0.86
40	1.000	1.230	0.90
50	0.898	0.992	-0.04
60	0.663	0.541	-2.67
70	0.372	0.170	-7.69
80	0.257	0.081	-10.90
90	0.396	0.193	-7.15
100	0.445	0.244	-6.13
110	0.322	0.128	-8.94
120	0.153	0.029	-15.41
130	0.424	0.221	-6.55
140	0.764	0.718	-1.44
150	0.947	1.103	0.43
160	0.944	1.096	0.40
170	0.733	0.661	-1.80
180	0.401	0.198	-7.04
190	0.326	0.131	-8.84
200	0.585	0.421	-3.76
210	0.739	0.672	-1.73
220	0.711	0.622	-2.06
230	0.558	0.383	-4.17
240	0.362	0.161	-7.93
250	0.236	0.069	-11.64
260	0.300	0.111	-9.56
270	0.346	0.147	-8.32
280	0.334	0.137	-8.63
290	0.360	0.159	-7.97
300	0.487	0.292	-5.35
310	0.632	0.491	-3.09
320	0.693	0.591	-2.29
330	0.655	0.528	-2.78
340	0.576	0.408	-3.89
350	0.534	0.351	-4.55

Vertical Polarization

Angle	Relative Field	Power Gain	Gain (dB)
0	0.742	0.677	-1.69
10	0.601	0.444	-3.52
20	0.452	0.251	-6.00
30	0.338	0.141	-8.52
40	0.306	0.115	-9.39
50	0.269	0.089	-10.51
60	0.294	0.106	-9.73
70	0.234	0.067	-11.72
80	0.160	0.031	-15.02
90	0.136	0.023	-16.43
100	0.086	0.009	-20.41
110	0.108	0.014	-18.43
120	0.164	0.033	-14.80
130	0.212	0.055	-12.57
140	0.299	0.110	-9.59
150	0.367	0.166	-7.81
160	0.448	0.247	-6.08
170	0.506	0.315	-5.02
180	0.572	0.402	-3.95
190	0.635	0.496	-3.05
200	0.684	0.575	-2.40
210	0.715	0.629	-2.01
220	0.744	0.681	-1.67
230	0.781	0.750	-1.25
240	0.811	0.809	-0.92
250	0.811	0.809	-0.92
260	0.807	0.801	-0.96
270	0.786	0.760	-1.19
280	0.766	0.722	-1.42
290	0.766	0.722	-1.42
300	0.788	0.764	-1.17
310	0.829	0.845	-0.73
320	0.869	0.929	-0.32
330	0.880	0.953	-0.21
340	0.871	0.933	-0.30
350	0.833	0.853	-0.69

Measured Composite Pattern in Relative Field



Call Sign: W273CW
W288CV / W293BV

Channel: 273D
288D / 293D

Max ERP: 0.250 kW (V)
0.250 kW (H)

Antenna Make: Propagation Systems Inc. **Model:** FMLB-2C-75WS

Licensee: PMB Broadcasting Inc.

MEASURED PATTERN (from manufacturer)								SUBMITTED PATTERN (to FCC)							
Enter		Measured	Calculated			Measured	Relative	Enter		Submitted	Calculated			Submitted	Relative
Max ERP		Relative	dB		Equiv	Relative	Field	Max ERP		Relative	dB		Equiv	Relative	Field
(kW)	° True	Field	Change	Suppression	Power	Field ²	RMS	(kW)	° True	Field	Change	Suppression	Power	Field ²	RMS
0.250	0°	0.742	-1.00	-2.59	0.138	0.55	0.743	0.250	0°	1.000	0.00	0.00	0.250	1.00	0.974
	10°	0.750	0.09	-2.50	0.141	0.56			10°	1.000	0.00	0.00	0.250	1.00	
	20°	0.895	1.54	-0.96	0.200	0.80			20°	1.000	0.00	0.00	0.250	1.00	
	30°	0.996	0.93	-0.03	0.248	0.99			30°	1.000	0.00	0.00	0.250	1.00	
	40°	1.000	0.03	0.00	0.250	1.00			40°	1.000	0.00	0.00	0.250	1.00	
	50°	0.898	-0.93	-0.93	0.202	0.81			50°	1.000	0.00	0.00	0.250	1.00	
	60°	0.663	-2.64	-3.57	0.110	0.44			60°	0.900	-0.92	-0.92	0.203	0.81	
	70°	0.372	-5.02	-8.59	0.035	0.14			70°	0.800	-1.02	-1.94	0.160	0.64	
	80°	0.257	-3.21	-11.80	0.017	0.07			80°	0.800	0.00	-1.94	0.160	0.64	
	90°	0.396	3.76	-8.05	0.039	0.16			90°	0.800	0.00	-1.94	0.160	0.64	
	100°	0.445	1.01	-7.03	0.050	0.20			100°	0.800	0.00	-1.94	0.160	0.64	
	110°	0.322	-2.81	-9.84	0.026	0.10			110°	0.900	1.02	-0.92	0.203	0.81	
	120°	0.164	-5.86	-15.70	0.007	0.03			120°	1.000	0.92	0.00	0.250	1.00	
	130°	0.424	8.25	-7.45	0.045	0.18			130°	1.000	0.00	0.00	0.250	1.00	
	140°	0.764	5.11	-2.34	0.146	0.58			140°	1.000	0.00	0.00	0.250	1.00	
	150°	0.947	1.87	-0.47	0.224	0.90			150°	1.000	0.00	0.00	0.250	1.00	
	160°	0.944	-0.03	-0.50	0.223	0.89			160°	1.000	0.00	0.00	0.250	1.00	
	170°	0.733	-2.20	-2.70	0.134	0.54			170°	1.000	0.00	0.00	0.250	1.00	
	180°	0.572	-2.15	-4.85	0.082	0.33			180°	1.000	0.00	0.00	0.250	1.00	
	190°	0.635	0.91	-3.94	0.101	0.40			190°	1.000	0.00	0.00	0.250	1.00	
	200°	0.684	0.65	-3.30	0.117	0.47			200°	1.000	0.00	0.00	0.250	1.00	
	210°	0.739	0.67	-2.63	0.137	0.55			210°	1.000	0.00	0.00	0.250	1.00	
	220°	0.744	0.06	-2.57	0.138	0.55			220°	1.000	0.00	0.00	0.250	1.00	
	230°	0.781	0.42	-2.15	0.152	0.61			230°	1.000	0.00	0.00	0.250	1.00	
	240°	0.811	0.33	-1.82	0.164	0.66			240°	1.000	0.00	0.00	0.250	1.00	
	250°	0.811	0.00	-1.82	0.164	0.66			250°	1.000	0.00	0.00	0.250	1.00	
	260°	0.807	-0.04	-1.86	0.163	0.65			260°	1.000	0.00	0.00	0.250	1.00	
	270°	0.786	-0.23	-2.09	0.154	0.62			270°	1.000	0.00	0.00	0.250	1.00	
	280°	0.766	-0.22	-2.32	0.147	0.59			280°	1.000	0.00	0.00	0.250	1.00	
	290°	0.766	0.00	-2.32	0.147	0.59			290°	1.000	0.00	0.00	0.250	1.00	
	300°	0.788	0.25	-2.07	0.155	0.62			300°	1.000	0.00	0.00	0.250	1.00	
	310°	0.829	0.44	-1.63	0.172	0.69			310°	1.000	0.00	0.00	0.250	1.00	
	320°	0.869	0.41	-1.22	0.189	0.76			320°	1.000	0.00	0.00	0.250	1.00	
	330°	0.880	0.11	-1.11	0.194	0.77			330°	1.000	0.00	0.00	0.250	1.00	
	340°	0.871	-0.09	-1.20	0.190	0.76			340°	1.000	0.00	0.00	0.250	1.00	
	350°	0.833	-0.39	-1.59	0.173	0.69			350°	1.000	0.00	0.00	0.250	1.00	

Percentage of
Allocated Pattern:
76.28%