



6340 Sky Creek Drive, Sacramento, California 95828  
P.O. Box 292880, Sacramento, California 95829-2880

(916) 383-1177 FAX (916) 383-1182

## **ANTENNA SPECIFICATIONS**

**MODEL**      **JSH-24/26-SHC**                      **SERIAL NO**    **13721**

### **ELECTRICAL SPECIFICATIONS**

**CHANNEL:**      26 (542-548 MHz)

**POLARIZATION:**      Horizontal

**AZIMUTH PATTERN:**      Cardioid

**GAIN:**      44 (x) /16.4 dBd

**BEAM TILT:**      0.5°

**NULL FILL:**      15%

**INPUT POWER:**      30 kW

**INPUT IMPEDANCE:**      50 ohms, Nominal

**MAXIMUM VSWR:**      1.05:1 over channel

**ELECTRICAL DE-ICER:**      none

**INPUT CONNECTION:**      6-1/8" EIA

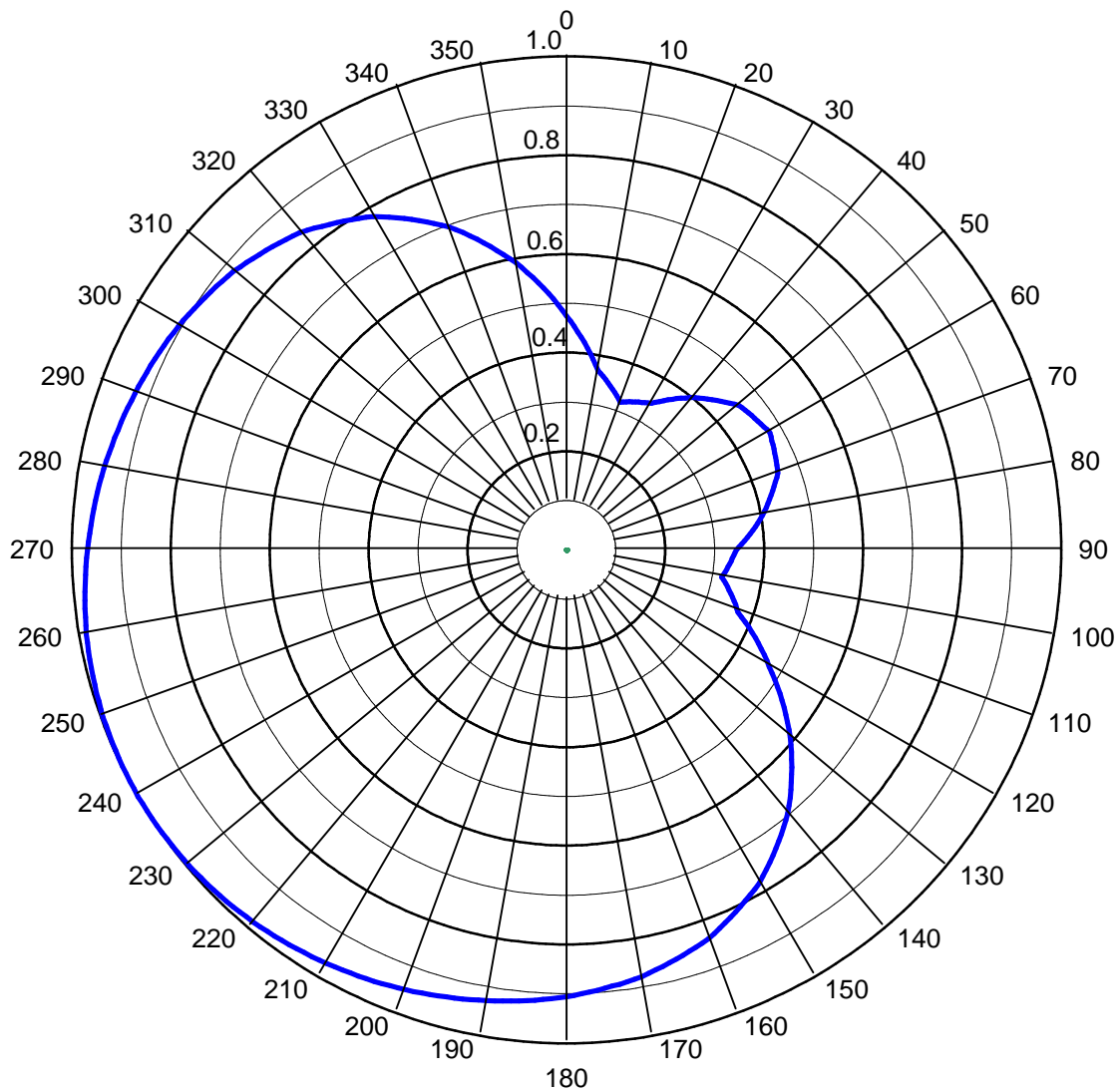
### **MECHANICAL/ENVIRONMENTAL SPECIFICATIONS**

**WEIGHT:**      705 lb (475 kg)

**WIND SHEAR:**      1795 lb (815 kg) per RS-222F

**PRESSURIZATION:**      10 psi max, 3–5 psi operating

**ANTI-ICING PROTECTION:**      Radome



Values in Relative Field

## AZIMUTH PATTERN INFORMATION

Customer: WMDN-DT

Channel: 26 (542-548 MHz)

Model: JSH-24/26 SHC

Pattern: Cardioid

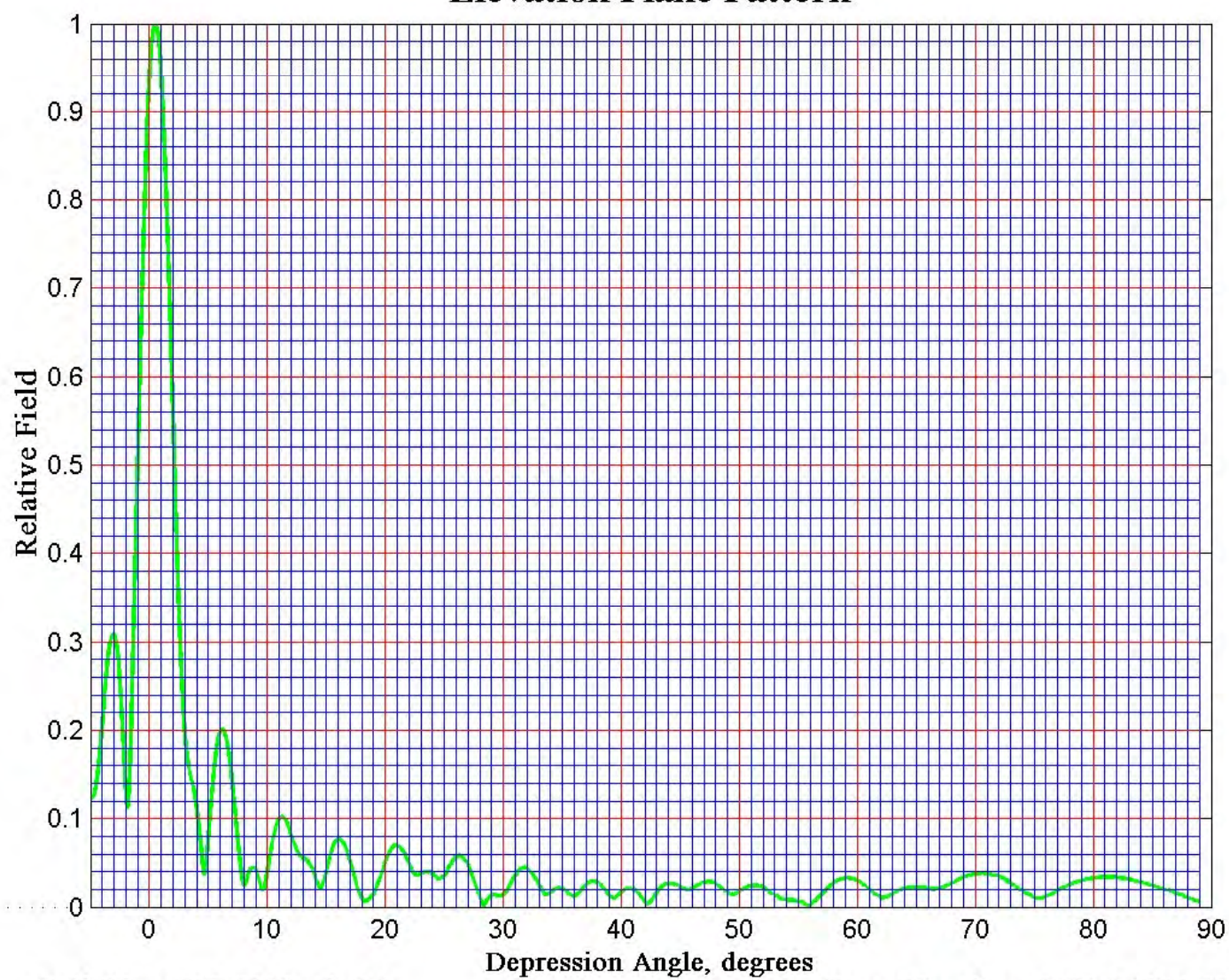
Notes: UHF Slot Antenna



## UHF SLOT ANTENNA ANTENNA PATTERN TABULATION

<u>AZIMUTH</u>	<u>FIELD</u>
0	0.474
10	0.369
20	0.319
30	0.343
40	0.403
50	0.455
60	0.475
70	0.455
80	0.403
90	0.343
100	0.319
110	0.369
120	0.474
130	0.591
140	0.697
150	0.780
160	0.839
170	0.878
180	0.906
190	0.928
200	0.949
210	0.968
220	0.985
230	0.996
240	1.000
250	0.996
260	0.985
270	0.968
280	0.949
290	0.928
300	0.906
310	0.878
320	0.839
330	0.780
340	0.697
350	0.591

## Elevation Plane Pattern

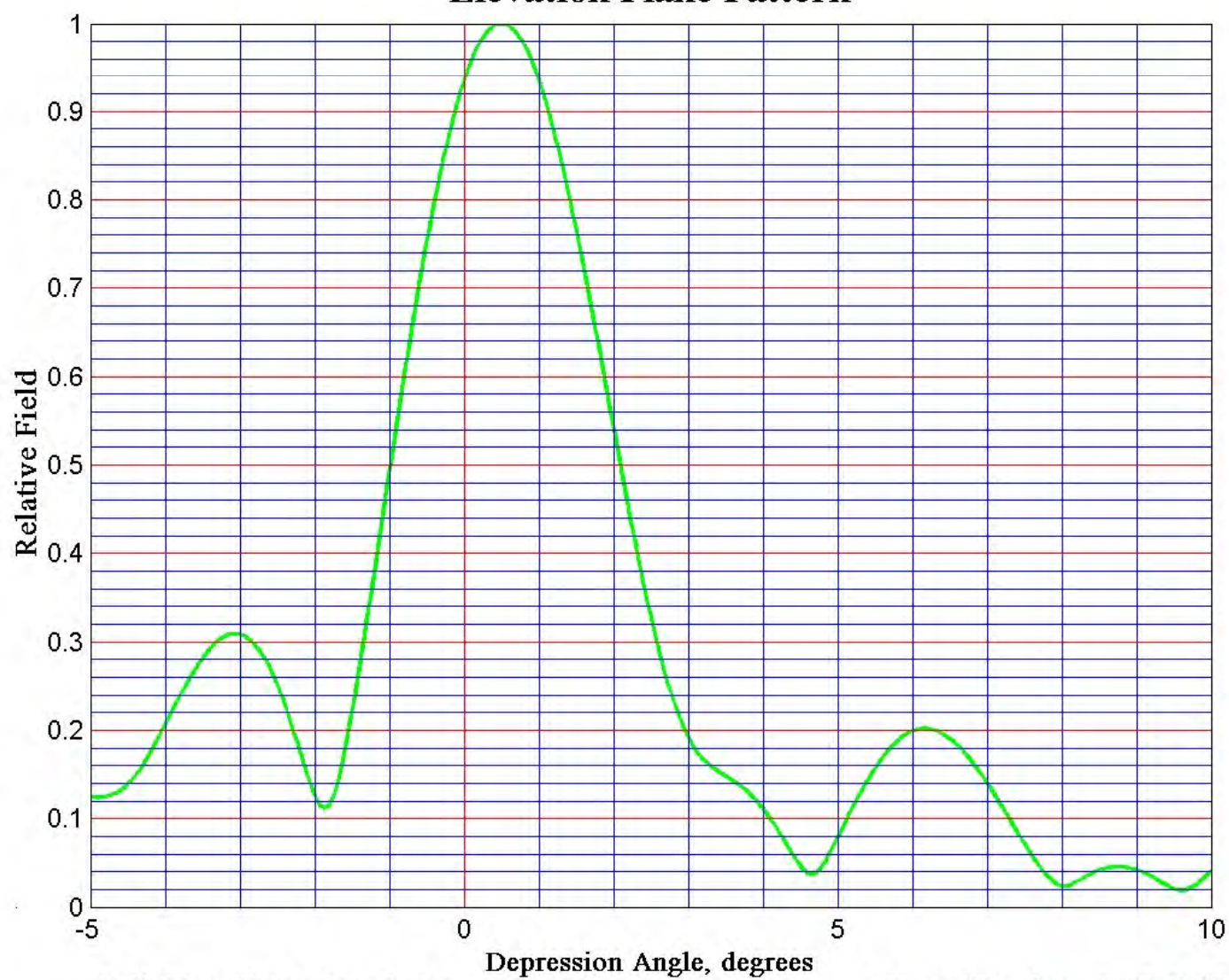


Call Sign: WMDN, ch.26

Type Number: JSH-24/26 SHC



## Elevation Plane Pattern



Call Sign: WMDN, ch.26

Type Number: JSH-24/26 SHC



6340 Sky Creek Drive, Sacramento, California 95828  
P.O. Box 292880, Sacramento, California 95829-2880

(916) 383-1177 FAX (916) 383-1182

Customer: WMDN-DT  
Frequency: 542 - 548 MHz

Date: 23 April, 2007  
Type Number: JSH-24/26-SHC

## Elevation Pattern Tabulation

<u>Elevation</u> <u>angle</u>	<u>Relative Field</u>	<u>Elevation</u> <u>angle</u>	<u>Relative Field</u>	<u>Elevation</u> <u>angle</u>	<u>Relative Field</u>
5.00	0.125	-1.75	0.657	-8.50	0.041
4.75	0.126	-2.00	0.542	-8.75	0.045
4.50	0.139	-2.25	0.430	-9.00	0.042
4.25	0.167	-2.50	0.328	-9.25	0.032
4.00	0.206	-2.75	0.247	-9.50	0.020
3.75	0.246	-3.00	0.192	-9.75	0.023
3.50	0.281	-3.25	0.163	-10.00	0.040
3.25	0.304	-3.50	0.148		
3.00	0.308	-3.75	0.133		
2.75	0.291	-4.00	0.111		
2.50	0.251	-4.25	0.080		
2.25	0.191	-4.50	0.047		
2.00	0.127	-4.75	0.041		
1.75	0.125	-5.00	0.077		
1.50	0.220	-5.25	0.120		
1.25	0.350	-5.50	0.156		
1.00	0.489	-5.75	0.184		
0.75	0.626	-6.00	0.199		
0.50	0.751	-6.25	0.201		
0.25	0.856	-6.50	0.191		
0.00	0.935	-6.75	0.170		
-0.25	0.984	-7.00	0.141		
-0.50	1.000	-7.25	0.107		
-0.75	0.983	-7.50	0.072		
-1.00	0.936	-7.75	0.041		
-1.25	0.862	-8.00	0.024		
-1.50	0.767	-8.25	0.031		



6340 Sky Creek Drive, Sacramento, California 95828  
P.O. Box 292880, Sacramento, California 95829-2880

(916) 383-1177 FAX (916) 383-1182

Customer: WMDN-DT

Date: 23 April, 2007

Frequency: 542 - 548 MHz

Type Number: JSH-24/26-SHC

## Elevation Pattern Tabulation (cont'd)

<u>Elevation</u> <u>angle</u>	<u>Relative Field</u>	<u>Elevation</u> <u>angle</u>	<u>Relative Field</u>	<u>Elevation</u> <u>angle</u>	<u>Relative Field</u>
-11	0.100	-38	0.0275	-65	0.0225
-12	0.082	-39	0.0128	-66	0.0208
-13	0.056	-40	0.0164	-67	0.0212
-14	0.035	-41	0.0199	-68	0.0264
-15	0.041	-42	0.0058	-69	0.0331
-16	0.077	-43	0.0162	-70	0.0375
-17	0.052	-44	0.0265	-71	0.0378
-18	0.009	-45	0.0223	-72	0.034
-19	0.015	-46	0.0206	-73	0.0269
-20	0.050	-47	0.0278	-74	0.0181
-21	0.070	-48	0.0262	-75	0.0109
-22	0.048	-49	0.0162	-76	0.0117
-23	0.037	-50	0.0172	-77	0.0183
-24	0.037	-51	0.0238	-78	0.0248
-25	0.036	-52	0.0216	-79	0.0298
-26	0.057	-53	0.0133	-80	0.0327
-27	0.047	-54	0.0083	-81	0.0338
-28	0.010	-55	0.0064	-82	0.0333
-29	0.013	-56	0.0018	-83	0.0313
-30	0.014	-57	0.0146	-84	0.0283
-31	0.035	-58	0.0268	-85	0.0245
-32	0.044	-59	0.0327	-86	0.0201
-33	0.025	-60	0.0299	-87	0.0154
-34	0.016	-61	0.0203	-88	0.0104
-35	0.021	-62	0.0111	-89	0.0052
-36	0.012	-63	0.0146	-90	0.000
-37	0.025	-64	0.0208		