JAMPRO ANTENNAS, INC.
6340 Sky Creek Drive, Sacramento, California 95828
P.O. Box 292880, Sacramento, California 95829-2880
(916) 383-1177 FAX (916) 383-1182

ANTENNA SPECIFICATIONS

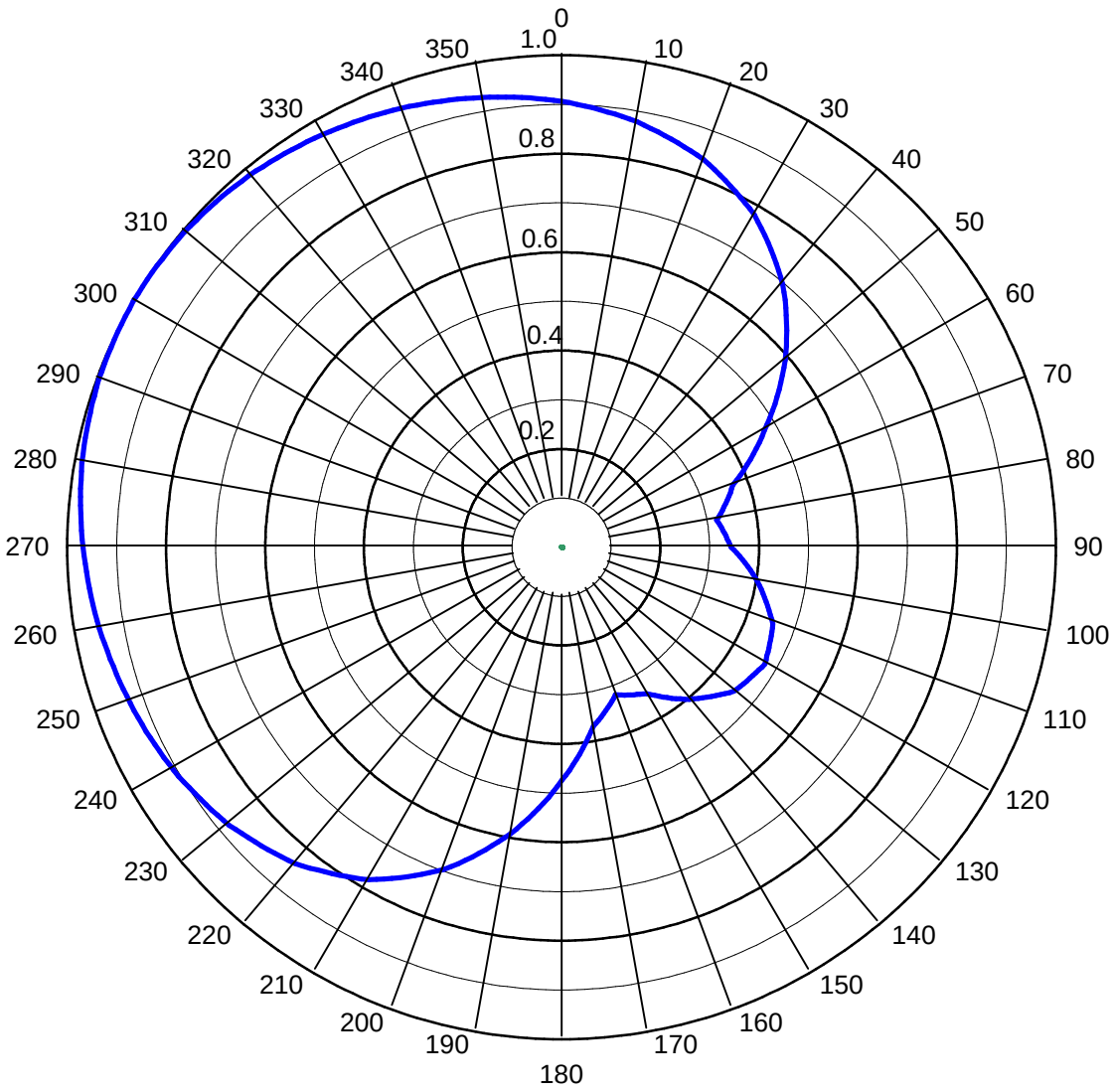
MODEL JSH-24/31-SHC SERIAL NO 13723

ELECTRICAL SPECIFICATIONS

CHANNEL:	31 (572-578 MHz)
POLARIZATION:	Horizontal
AZIMUTH PATTERN:	Cardioid
GAIN:	44.4 (x) /16.5 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:	685 lb (310 kg) no ice
WIND SHEAR:	1820 lb (825 kg) per RS-222F
PRESSURIZATION:	10 psi max, 3–5 psi operating
ANTI-ICING PROTECTION:	Radome



Values in Relative Field

AZIMUTH PATTERN INFORMATION

Customer: WGBC-DT

Channel: 31 (572-578 MHz)

Model: JSH-24/31 SHC

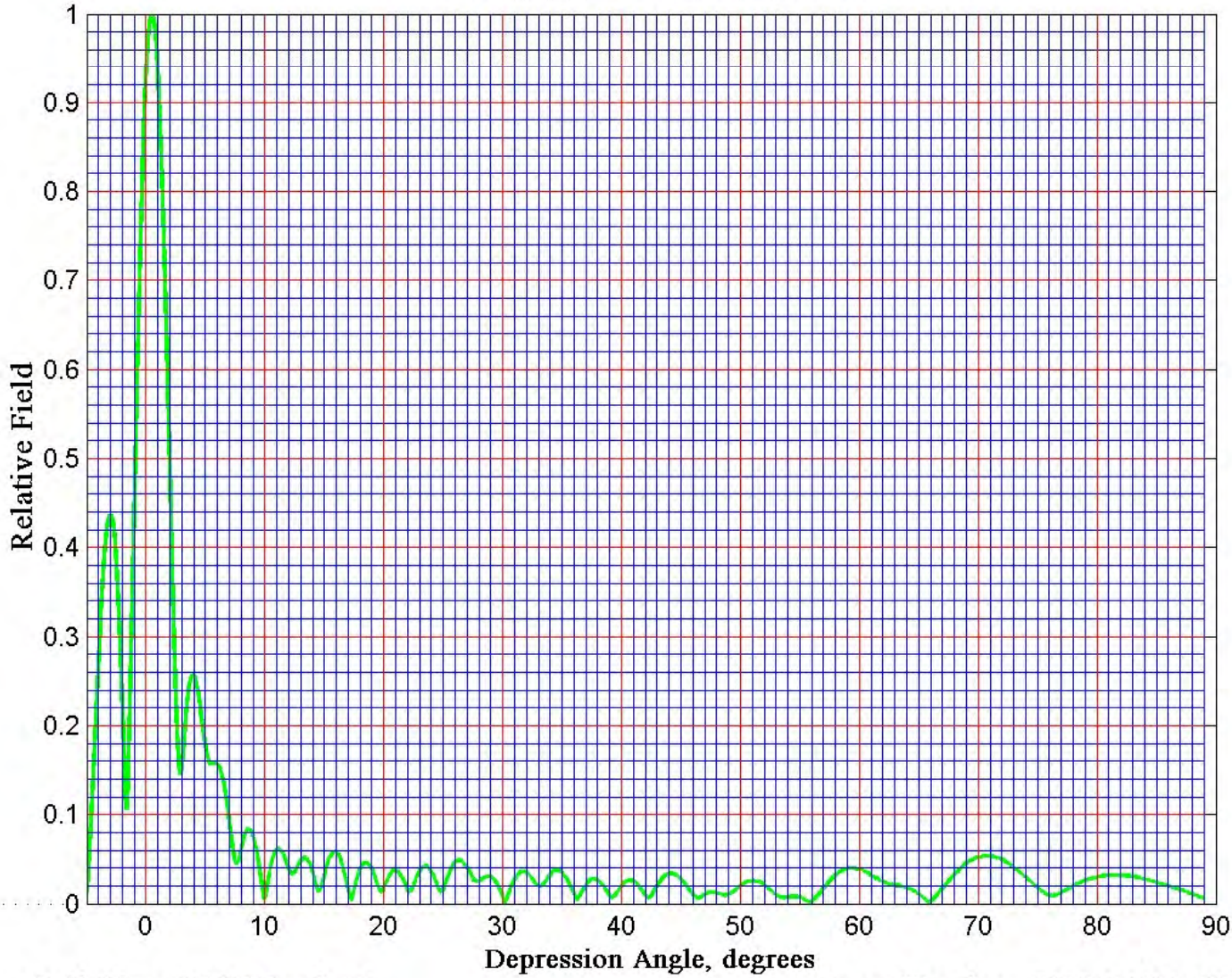
Pattern: Cardioid

Notes: UHF Slot Antenna

UHF SLOT ANTENNA
ANTENNA PATTERN TABULATION

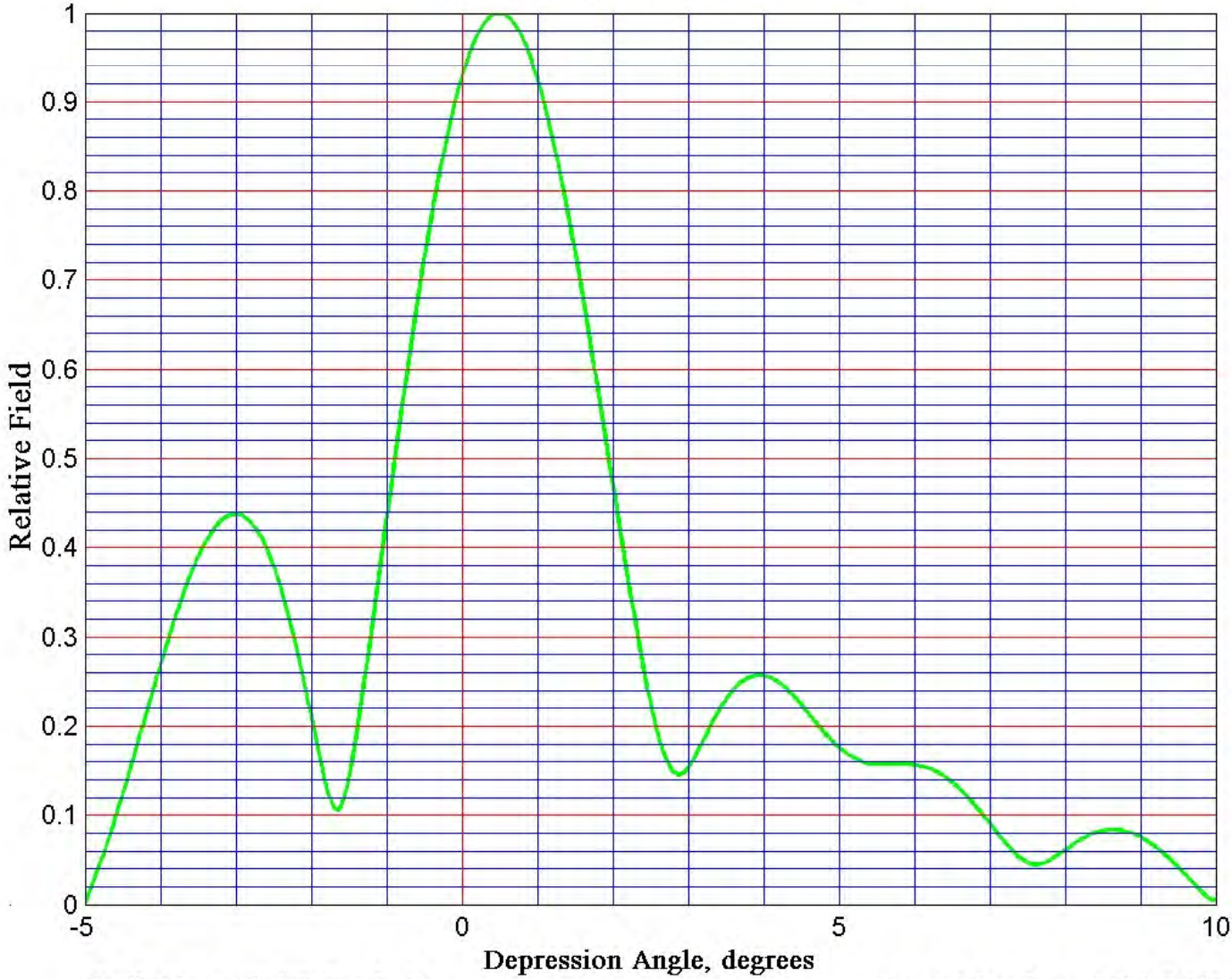
AZIMUTH	FIELD
0	0.906
10	0.878
20	0.839
30	0.780
40	0.697
50	0.591
60	0.474
70	0.369
80	0.319
90	0.343
100	0.403
110	0.455
120	0.475
130	0.455
140	0.403
150	0.343
160	0.319
170	0.369
180	0.474
190	0.591
200	0.697
210	0.780
220	0.839
230	0.878
240	0.906
250	0.928
260	0.949
270	0.968
280	0.985
290	0.996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

Elevation Plane Pattern



Call Sign: WGBC, ch.31 Type Number: JSH-24/31 SHC

Elevation Plane Pattern



Call Sign: WGBC, ch.31

Type Number: JSH-24/31 SHC

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Customer: WGBC-DT Date: 23 April, 2007
Frequency: 572-578 MHz Type Number: JSH-24/31-SHC

Elevation Pattern Tabulation

Elevation angle	Relative Field	Elevation angle	Relative Field	Elevation angle	Relative Field
5.00	0.002	-1.75	0.604	-8.50	0.082
4.75	0.058	-2.00	0.471	-8.75	0.083
4.50	0.124	-2.25	0.340	-9.00	0.075
4.25	0.196	-2.50	0.227	-9.25	0.061
4.00	0.268	-2.75	0.155	-9.50	0.042
3.75	0.335	-3.00	0.153	-9.75	0.020
3.50	0.389	-3.25	0.192	-10.00	0.006
3.25	0.425	-3.50	0.229		
3.00	0.438	-3.75	0.252		
2.75	0.423	-4.00	0.256		
2.50	0.379	-4.25	0.245		
2.25	0.307	-4.50	0.224		
2.00	0.212	-4.75	0.198		
1.75	0.119	-5.00	0.176		
1.50	0.142	-5.25	0.162		
1.25	0.275	-5.50	0.157		
1.00	0.429	-5.75	0.157		
0.75	0.582	-6.00	0.157		
0.50	0.722	-6.25	0.150		
0.25	0.839	-6.50	0.137		
0.00	0.928	-6.75	0.116		
-0.25	0.982	-7.00	0.091		
-0.50	1.000	-7.25	0.065		
-0.75	0.980	-7.50	0.047		
-1.00	0.926	-7.75	0.047		
-1.25	0.841	-8.00	0.061		
-1.50	0.731	-8.25	0.075		

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Customer: WGBC-DT Date: 23 April, 2007
Frequency: 572-578 MHz Type Number: JSH-24/31-SHC

Elevation Pattern Tabulation (cont'd)

Elevation angle	Relative Field	Elevation angle	Relative Field	Elevation angle	Relative Field
-11	0.061	-38	0.0263	-65	0.0107
-12	0.038	-39	0.0088	-66	0.0016
-13	0.048	-40	0.0197	-67	0.017
-14	0.035	-41	0.0251	-68	0.0323
-15	0.032	-42	0.0092	-69	0.0447
-16	0.058	-43	0.0201	-70	0.052
-17	0.016	-44	0.0334	-71	0.0533
-18	0.038	-45	0.0272	-72	0.0491
-19	0.037	-46	0.0098	-73	0.0406
-20	0.017	-47	0.01	-74	0.0294
-21	0.037	-48	0.0122	-75	0.0177
-22	0.015	-49	0.01	-76	0.0093
-23	0.036	-50	0.0196	-77	0.0121
-24	0.035	-51	0.0253	-78	0.0195
-25	0.016	-52	0.0205	-79	0.0256
-26	0.046	-53	0.01	-80	0.0297
-27	0.040	-54	0.0073	-81	0.0317
-28	0.025	-55	0.0071	-82	0.0318
-29	0.030	-56	0.0022	-83	0.0303
-30	0.007	-57	0.017	-84	0.0277
-31	0.027	-58	0.0314	-85	0.0241
-32	0.035	-59	0.0393	-86	0.0199
-33	0.019	-60	0.0386	-87	0.0152
-34	0.033	-61	0.0317	-88	0.0103
-35	0.035	-62	0.0243	-89	0.0052
-36	0.010	-63	0.0207	-90	0.000
-37	0.021	-64	0.0178		