



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-24/16-SHC** **SERIAL NO** **#13131**

ELECTRICAL SPECIFICATIONS

CHANNEL: 16 (482-488 MHz)

POLARIZATION: Horizontal

AZIMUTH PATTERN: Cardioid

GAIN: 44 (x) /16.4 dBd

BEAM TILT: 0.5°

NULL FILL: 17%

INPUT POWER: 35 kW

INPUT IMPEDANCE: 75 ohms, Nominal

MAXIMUM VSWR: 1.05:1 over channel

ELECTRICAL DE-ICER: none

INPUT CONNECTION: 6-1/8" EIA

MECHANICAL/ENVIRONMENTAL SPECIFICATIONS

WEIGHT: 1045 lb (475 kg) no ice, 1620 lb (735 kg) ½" ice

WIND SHEAR: 1795 lb (815 kg) no ice, 2805 lb (1270 kg) ½" ice
per RS-222F

PRESSURIZATION: 10 psi max, 3-5 psi operating

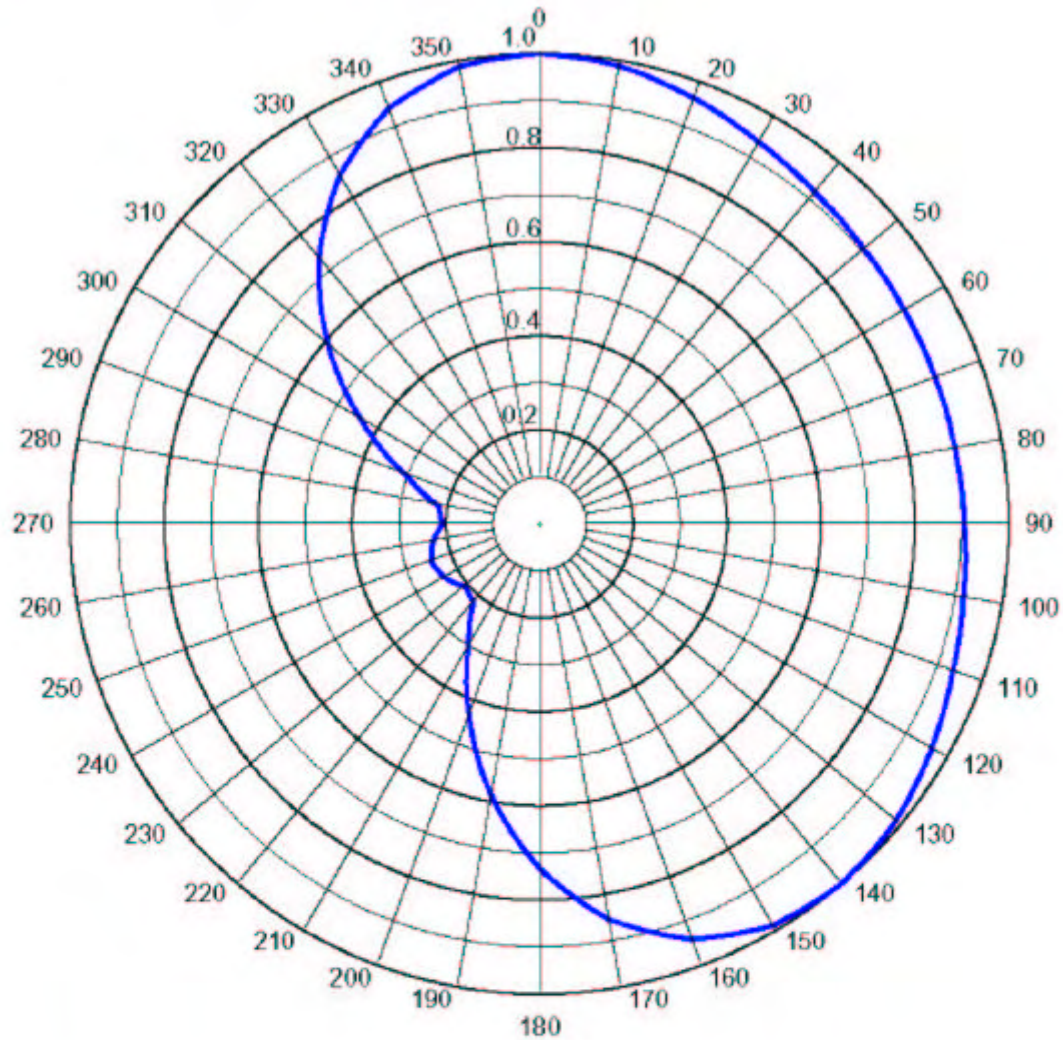
ANTI-ICING PROTECTION: Radome



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AZIMUTH PATTERN



AZIMUTH PATTERN INFORMATION

SITE: WLOV-DT

Customer: MSM

Channel: 16 (482-488 MHz)

Model: JSH-24/16 SHC

Pattern: Cardioid

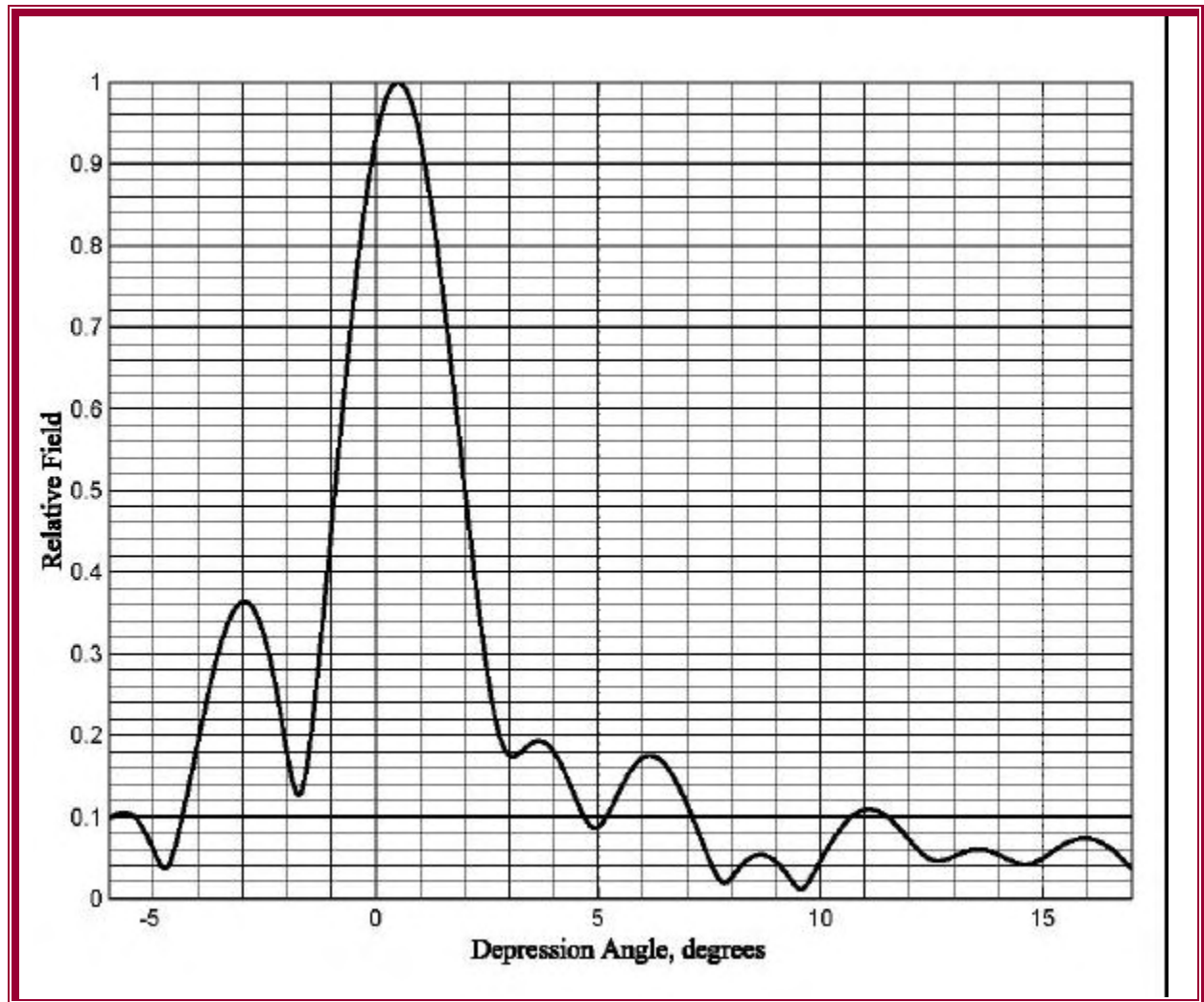
Notes: UHF Slot Antenna, Side-mounted



		<i>PROPOSED</i>	<i>JSH-24</i>	<i>PATTERN</i>
		<u>ERP =</u>	<u>1000.00</u>	KW
<u>AZIMUTH</u>	<u>FIELD</u>	<u>dB</u>	<u>ERP</u>	<u>dBK</u>
0	1.000	0.000	1000.00	30.00
10	0.988	-0.105	976.14	29.90
20	0.963	-0.327	927.37	29.67
30	0.936	-0.574	876.10	29.43
40	0.917	-0.753	840.89	29.25
50	0.905	-0.867	819.03	29.13
60	0.900	-0.915	810.00	29.08
70	0.899	-0.925	808.20	29.08
80	0.900	-0.915	810.00	29.08
90	0.905	-0.867	819.03	29.13
100	0.917	-0.753	840.89	29.25
110	0.936	-0.574	876.10	29.43
120	0.963	-0.327	927.37	29.67
130	0.988	-0.105	976.14	29.90
140	1.000	0.000	1000.00	30.00
150	0.987	-0.114	974.17	29.89
160	0.940	-0.537	883.60	29.46
170	0.854	-1.371	729.32	28.63
180	0.733	-2.698	537.29	27.30
190	0.588	-4.612	345.74	25.39
200	0.437	-7.190	190.97	22.81
210	0.302	-10.400	91.20	19.60
220	0.218	-13.231	47.52	16.77
230	0.207	-13.681	42.85	16.32
240	0.232	-12.690	53.82	17.31
250	0.245	-12.217	60.03	17.78
260	0.232	-12.690	53.82	17.31
270	0.207	-13.681	42.85	16.32
280	0.218	-13.231	47.52	16.77
290	0.302	-10.400	91.20	19.60
300	0.437	-7.190	190.97	22.81
310	0.588	-4.612	345.74	25.39
320	0.733	-2.698	537.29	27.30
330	0.854	-1.371	729.32	28.63
340	0.940	-0.537	883.60	29.46
350	0.987	-0.114	974.17	29.89



ELEVATION PLOT





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Customer: WLOV-DT

Date: 21 March, 2007

Frequency: 482-488 MHz

Type Number: JSH-24/16-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>
10.00	0.036	3.25	0.346	-3.50	0.190
9.75	0.018	3.00	0.363	-3.75	0.192
9.50	0.009	2.75	0.355	-4.00	0.180
9.25	0.035	2.50	0.320	-4.25	0.155
9.00	0.064	2.25	0.259	-4.50	0.123
8.75	0.093	2.00	0.182	-4.75	0.095
8.50	0.117	1.75	0.127	-5.00	0.087
8.25	0.134	1.50	0.180	-5.25	0.106
8.00	0.143	1.25	0.306	-5.50	0.134
7.75	0.142	1.00	0.452	-5.75	0.158
7.50	0.133	0.75	0.597	-6.00	0.172
7.25	0.116	0.50	0.730	-6.25	0.175
7.00	0.095	0.25	0.843	-6.50	0.165
6.75	0.078	0.00	0.929	-6.75	0.144
6.50	0.074	-0.25	0.982	-7.00	0.116
6.25	0.083	-0.50	1.000	-7.25	0.082
6.00	0.097	-0.75	0.983	-7.50	0.049
5.75	0.105	-1.00	0.932	-7.75	0.022
5.50	0.103	-1.25	0.851	-8.00	0.025
5.25	0.087	-1.50	0.748	-8.25	0.042
5.00	0.060	-1.75	0.630	-8.50	0.052
4.75	0.036	-2.00	0.505	-8.75	0.053
4.50	0.066	-2.25	0.385	-9.00	0.045
4.25	0.126	-2.50	0.281	-9.25	0.030
4.00	0.191	-2.75	0.207	-9.50	0.012
3.75	0.255	-3.00	0.176	-9.75	0.021
3.50	0.308	-3.25	0.179	-10.00	0.045



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-11	0.108	-38	0.043	-65	0.034
-12	0.072	-39	0.017	-66	0.018
-13	0.051	-40	0.015	-67	0.017
-14	0.054	-41	0.019	-68	0.044
-15	0.049	-42	0.004	-69	0.070
-16	0.074	-43	0.036	-70	0.088
-17	0.037	-44	0.050	-71	0.094
-18	0.019	-45	0.038	-72	0.089
-19	0.021	-46	0.020	-73	0.075
-20	0.032	-47	0.022	-74	0.055
-21	0.066	-48	0.014	-75	0.035
-22	0.046	-49	0.013	-76	0.025
-23	0.028	-50	0.041	-77	0.035
-24	0.031	-51	0.052	-78	0.050
-25	0.026	-52	0.041	-79	0.064
-26	0.051	-53	0.016	-80	0.073
-27	0.038	-54	0.017	-81	0.077
-28	0.003	-55	0.024	-82	0.077
-29	0.023	-56	0.012	-83	0.074
-30	0.004	-57	0.015	-84	0.067
-31	0.039	-58	0.042	-85	0.059
-32	0.052	-59	0.060	-86	0.049
-33	0.032	-60	0.060	-87	0.037
-34	0.021	-61	0.046	-88	0.025
-35	0.020	-62	0.030	-89	0.013
-36	0.013	-63	0.031	-90	0.000
-37	0.041	-64	0.038		