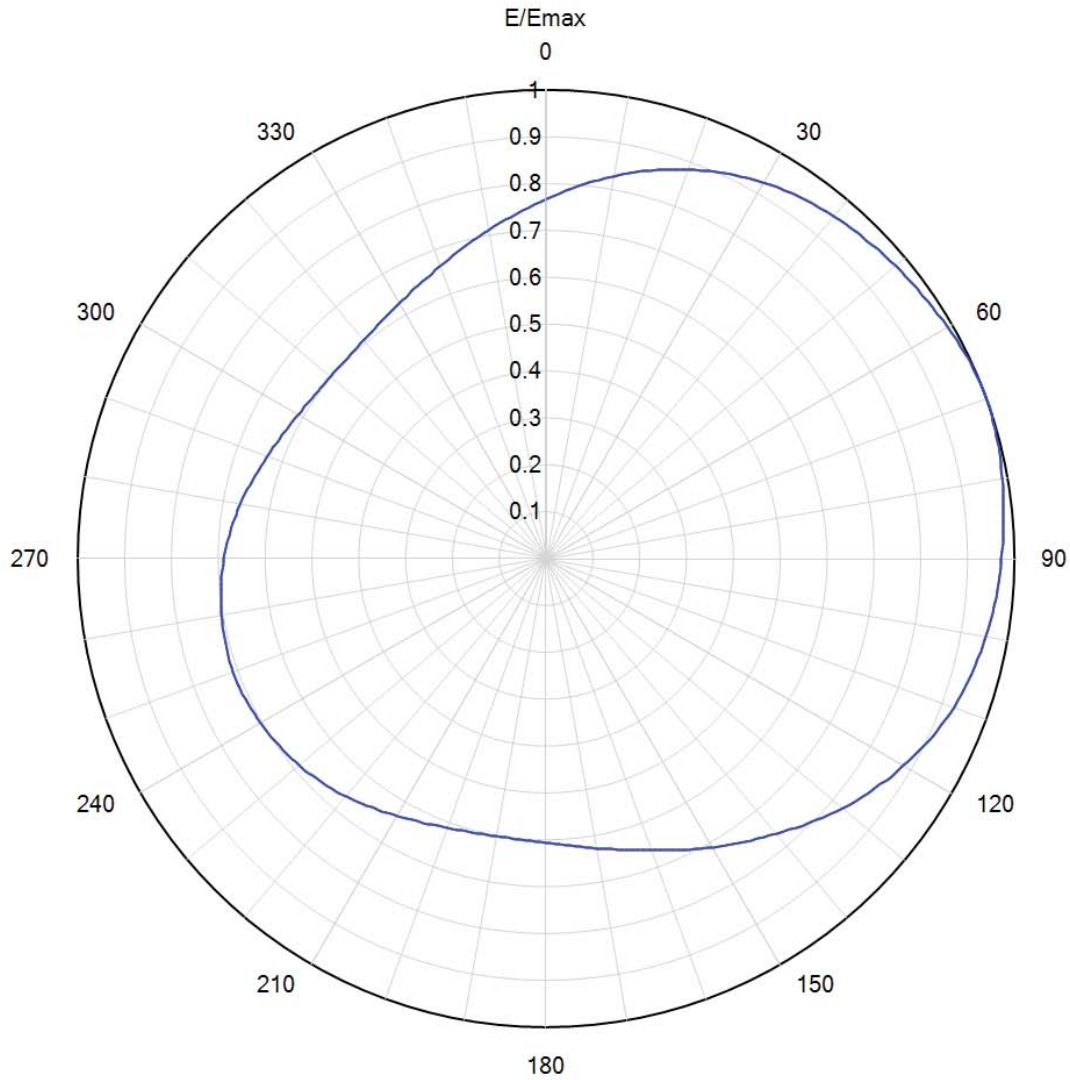




Azimuth Pattern



Model: RD24OM488548L3S
Location: Columbia, MO.
Customer: News-Press & Gazette
Date: February 5, 2019
Rotation Angle: 70 degrees

Polarization: Horizontal
Frequency: 491.00 MHz
Directivity: 1.7 (2.24 dB)
Elevation Angle: 0.75 degrees
Horizontal Unit Pattern:
File = RD_perfect_RFS(OM)_548.pat

Note: Pattern Tolerance +/-5% of Emax



Model: **RD24OM488548L3S**
Location: **Columbia, MO.**
Customer: **News-Press & Gazette**
Date: **February 5, 2019**

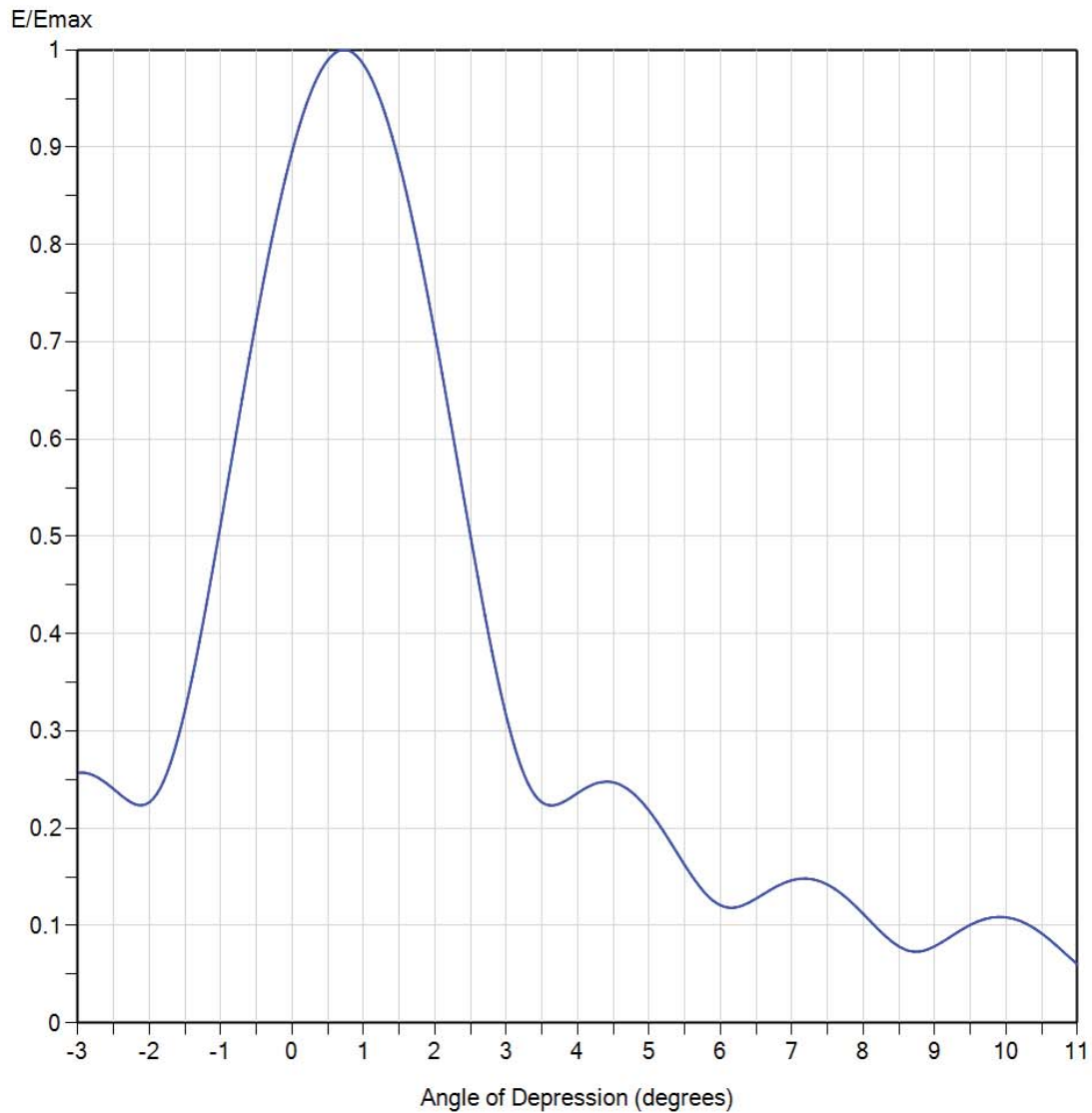
Polarization: **Horizontal**
Frequency (MHz): **491.00**
Directivity: **1.7 (2.24 dB)**
Elevation Angle: **0.75 degrees**
Rotation Angle: **70 degrees**

TABULATED AZIMUTH PATTERN

Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field
0	0.766	45	0.964	90	0.972	135	0.797	180	0.606	225	0.676	270	0.688	315	0.602
1	0.772	46	0.966	91	0.971	136	0.791	181	0.605	226	0.679	271	0.686	316	0.603
2	0.778	47	0.967	92	0.969	137	0.785	182	0.604	227	0.681	272	0.683	317	0.603
3	0.785	48	0.969	93	0.967	138	0.778	183	0.603	228	0.683	273	0.681	318	0.604
4	0.791	49	0.971	94	0.966	139	0.772	184	0.603	229	0.686	274	0.679	319	0.605
5	0.797	50	0.972	95	0.964	140	0.766	185	0.602	230	0.688	275	0.676	320	0.606
6	0.803	51	0.974	96	0.962	141	0.760	186	0.602	231	0.689	276	0.674	321	0.608
7	0.809	52	0.976	97	0.960	142	0.754	187	0.602	232	0.691	277	0.671	322	0.609
8	0.816	53	0.978	98	0.958	143	0.749	188	0.602	233	0.693	278	0.669	323	0.611
9	0.822	54	0.979	99	0.956	144	0.743	189	0.602	234	0.695	279	0.666	324	0.613
10	0.828	55	0.981	100	0.954	145	0.738	190	0.602	235	0.696	280	0.663	325	0.615
11	0.834	56	0.983	101	0.952	146	0.732	191	0.602	236	0.698	281	0.661	326	0.617
12	0.840	57	0.984	102	0.950	147	0.727	192	0.603	237	0.699	282	0.658	327	0.620
13	0.845	58	0.986	103	0.947	148	0.722	193	0.603	238	0.700	283	0.655	328	0.623
14	0.851	59	0.988	104	0.945	149	0.717	194	0.604	239	0.702	284	0.652	329	0.625
15	0.856	60	0.989	105	0.942	150	0.712	195	0.605	240	0.703	285	0.649	330	0.628
16	0.862	61	0.991	106	0.939	151	0.707	196	0.606	241	0.704	286	0.646	331	0.631
17	0.867	62	0.992	107	0.936	152	0.702	197	0.607	242	0.705	287	0.643	332	0.634
18	0.872	63	0.994	108	0.933	153	0.697	198	0.609	243	0.707	288	0.640	333	0.637
19	0.877	64	0.995	109	0.930	154	0.692	199	0.610	244	0.708	289	0.637	334	0.640
20	0.882	65	0.997	110	0.927	155	0.687	200	0.612	245	0.709	290	0.635	335	0.644
21	0.887	66	0.998	111	0.923	156	0.682	201	0.614	246	0.709	291	0.632	336	0.647
22	0.892	67	0.999	112	0.919	157	0.677	202	0.616	247	0.710	292	0.629	337	0.651
23	0.897	68	0.999	113	0.915	158	0.672	203	0.618	248	0.710	293	0.627	338	0.655
24	0.902	69	1.000	114	0.911	159	0.668	204	0.620	249	0.711	294	0.625	339	0.659
25	0.906	70	1.000	115	0.906	160	0.663	205	0.622	250	0.711	295	0.622	340	0.663
26	0.911	71	1.000	116	0.902	161	0.659	206	0.625	251	0.711	296	0.620	341	0.668
27	0.915	72	0.999	117	0.897	162	0.655	207	0.627	252	0.710	297	0.618	342	0.672
28	0.919	73	0.999	118	0.892	163	0.651	208	0.629	253	0.710	298	0.616	343	0.677
29	0.923	74	0.998	119	0.887	164	0.647	209	0.632	254	0.709	299	0.614	344	0.682
30	0.927	75	0.997	120	0.882	165	0.644	210	0.635	255	0.709	300	0.612	345	0.687
31	0.930	76	0.995	121	0.877	166	0.640	211	0.637	256	0.708	301	0.610	346	0.692
32	0.933	77	0.994	122	0.872	167	0.637	212	0.640	257	0.707	302	0.609	347	0.697
33	0.936	78	0.992	123	0.867	168	0.634	213	0.643	258	0.706	303	0.607	348	0.702
34	0.939	79	0.991	124	0.862	169	0.631	214	0.646	259	0.704	304	0.606	349	0.707
35	0.942	80	0.989	125	0.856	170	0.628	215	0.649	260	0.703	305	0.605	350	0.712
36	0.945	81	0.988	126	0.851	171	0.625	216	0.652	261	0.702	306	0.604	351	0.717
37	0.947	82	0.986	127	0.845	172	0.623	217	0.655	262	0.701	307	0.603	352	0.722
38	0.950	83	0.984	128	0.840	173	0.620	218	0.658	263	0.700	308	0.603	353	0.727
39	0.952	84	0.983	129	0.834	174	0.617	219	0.661	264	0.698	309	0.602	354	0.732
40	0.954	85	0.981	130	0.828	175	0.615	220	0.663	265	0.697	310	0.602	355	0.738
41	0.956	86	0.979	131	0.822	176	0.613	221	0.666	266	0.695	311	0.602	356	0.743
42	0.958	87	0.978	132	0.816	177	0.611	222	0.669	267	0.693	312	0.602	357	0.749
43	0.960	88	0.976	133	0.809	178	0.609	223	0.671	268	0.692	313	0.602	358	0.754
44	0.962	89	0.974	134	0.803	179	0.608	224	0.674	269	0.690	314	0.602	359	0.760



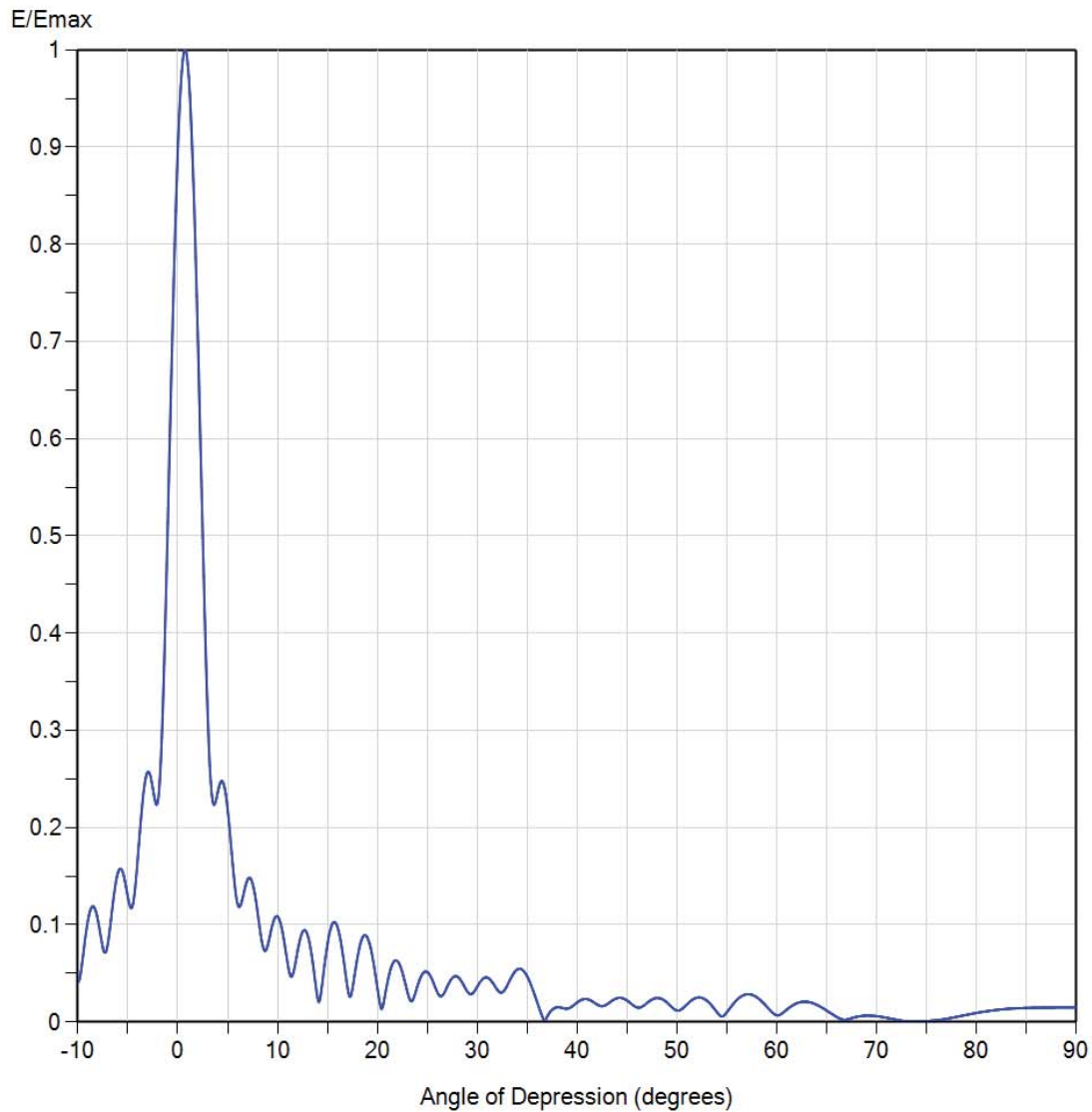
Elevation Pattern



Model:	RD24OM488548L3S	Frequency:	491.00 MHz
Polarization:	<u>Horizontal</u>	Directivity (Main Lobe):	21.8 (13.39 dBd)
Location:	Columbia, MO.	Directivity (At Horizon):	17.5 (12.44 dBd)
Customer:	News-Press & Gazette	Beam Tilt:	0.75 degrees
Date:	February 5, 2019	Azimuth Angle:	70 degrees



Elevation Pattern



Model:	RD24OM488548L3S	Frequency:	491.00 MHz
Polarization:	<u>Horizontal</u>	Directivity (Main Lobe):	21.8 (13.39 dBd)
Location:	Columbia, MO.	Directivity (At Horizon):	17.5 (12.44 dBd)
Customer:	News-Press & Gazette	Beam Tilt:	0.75 degrees
Date:	February 5, 2019	Azimuth Angle:	70 degrees



Model: **RD240M488548L3S**
Location: **Columbia, MO.**
Customer: **News-Press & Gazette**
Date: **February 5, 2019**

Polarization: **Horizontal**
Frequency (MHz): **491.00**
Directivity (Main Lobe): **21.8 (13.39 dB)**
Directivity (At Horizon): **17.5 (12.44 dB)**
Beam Tilt: **0.75 degrees**

TABULATED ELEVATION PATTERN

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.041	2.4	0.541	10.6	0.086	30.5	0.044	51.0	0.018	71.5	0.003
-9.5	0.067	2.6	0.458	10.8	0.073	31.0	0.046	51.5	0.023	72.0	0.002
-9.0	0.105	2.8	0.381	11.0	0.060	31.5	0.041	52.0	0.025	72.5	0.001
-8.5	0.119	3.0	0.315	11.5	0.048	32.0	0.033	52.5	0.025	73.0	0.001
-8.0	0.105	3.2	0.264	12.0	0.073	32.5	0.030	53.0	0.022	73.5	0.000
-7.5	0.076	3.4	0.234	12.5	0.093	33.0	0.038	53.5	0.017	74.0	0.000
-7.0	0.081	3.6	0.224	13.0	0.089	33.5	0.048	54.0	0.010	74.5	0.001
-6.5	0.122	3.8	0.227	13.5	0.062	34.0	0.054	54.5	0.006	75.0	0.001
-6.0	0.153	4.0	0.236	14.0	0.024	34.5	0.054	55.0	0.010	75.5	0.001
-5.5	0.154	4.2	0.245	14.5	0.042	35.0	0.047	55.5	0.017	76.0	0.002
-5.0	0.128	4.4	0.248	15.0	0.081	35.5	0.035	56.0	0.023	76.5	0.002
-4.5	0.121	4.6	0.245	15.5	0.101	36.0	0.020	56.5	0.027	77.0	0.003
-4.0	0.170	4.8	0.234	16.0	0.098	36.5	0.006	57.0	0.028	77.5	0.004
-3.5	0.230	5.0	0.218	16.5	0.072	37.0	0.006	57.5	0.028	78.0	0.005
-3.0	0.257	5.2	0.197	17.0	0.035	37.5	0.013	58.0	0.025	78.5	0.006
-2.8	0.255	5.4	0.174	17.5	0.034	38.0	0.015	58.5	0.021	79.0	0.007
-2.6	0.246	5.6	0.151	18.0	0.067	38.5	0.014	59.0	0.016	79.5	0.008
-2.4	0.234	5.8	0.132	18.5	0.087	39.0	0.014	59.5	0.010	80.0	0.009
-2.2	0.225	6.0	0.121	19.0	0.087	39.5	0.016	60.0	0.007	80.5	0.010
-2.0	0.227	6.2	0.119	19.5	0.067	40.0	0.020	60.5	0.009	81.0	0.011
-1.8	0.249	6.4	0.124	20.0	0.035	40.5	0.023	61.0	0.013	81.5	0.012
-1.6	0.293	6.6	0.132	20.5	0.015	41.0	0.023	61.5	0.017	82.0	0.012
-1.4	0.355	6.8	0.141	21.0	0.041	41.5	0.021	62.0	0.019	82.5	0.013
-1.2	0.431	7.0	0.147	21.5	0.060	42.0	0.018	62.5	0.021	83.0	0.013
-1.0	0.513	7.2	0.148	22.0	0.063	42.5	0.016	63.0	0.021	83.5	0.014
-0.8	0.599	7.4	0.145	22.5	0.051	43.0	0.018	63.5	0.020	84.0	0.014
-0.6	0.683	7.6	0.138	23.0	0.031	43.5	0.022	64.0	0.018	84.5	0.014
-0.4	0.763	7.8	0.126	23.5	0.022	44.0	0.024	64.5	0.015	85.0	0.014
-0.2	0.835	8.0	0.112	24.0	0.037	44.5	0.025	65.0	0.012	85.5	0.015
0.0	0.896	8.2	0.097	24.5	0.049	45.0	0.022	65.5	0.008	86.0	0.015
0.2	0.944	8.4	0.084	25.0	0.051	45.5	0.018	66.0	0.005	86.5	0.015
0.4	0.978	8.6	0.075	25.5	0.043	46.0	0.015	66.5	0.003	87.0	0.015
0.6	0.997	8.8	0.073	26.0	0.030	46.5	0.016	67.0	0.003	87.5	0.015
0.8	0.999	9.0	0.079	26.5	0.027	47.0	0.020	67.5	0.004	88.0	0.015
1.0	0.985	9.2	0.087	27.0	0.037	47.5	0.023	68.0	0.005	88.5	0.015
1.2	0.955	9.4	0.097	27.5	0.045	48.0	0.025	68.5	0.006	89.0	0.015
1.4	0.911	9.6	0.104	28.0	0.047	48.5	0.023	69.0	0.007	89.5	0.015
1.6	0.853	9.8	0.108	28.5	0.040	49.0	0.020	69.5	0.006	90.0	0.000
1.8	0.785	10.0	0.109	29.0	0.031	49.5	0.015	70.0	0.006		
2.0	0.708	10.2	0.105	29.5	0.029	50.0	0.012	70.5	0.005		
2.2	0.626	10.4	0.097	30.0	0.036	50.5	0.013	71.0	0.004		