

AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-71062-1**
 Date **7-Mar-18**
 Call Letters **KRSU**
 Channel **32**
 Frequency **581 MHz**
 Antenna Type **TLP-32C-BB-R C230**
 Gain **2.25 (3.52dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.592	36	0.222	72	0.325	108	0.325	144	0.222	180	0.592	216	0.864	252	0.986	288	0.986	324	0.864
1	0.583	37	0.214	73	0.331	109	0.318	145	0.230	181	0.602	217	0.869	253	0.988	289	0.984	325	0.859
2	0.573	38	0.207	74	0.336	110	0.312	146	0.239	182	0.611	218	0.875	254	0.989	290	0.983	326	0.853
3	0.563	39	0.201	75	0.342	111	0.306	147	0.248	183	0.621	219	0.880	255	0.990	291	0.981	327	0.847
4	0.553	40	0.194	76	0.347	112	0.299	148	0.257	184	0.630	220	0.885	256	0.992	292	0.979	328	0.842
5	0.543	41	0.190	77	0.351	113	0.292	149	0.267	185	0.639	221	0.890	257	0.993	293	0.977	329	0.836
6	0.533	42	0.185	78	0.356	114	0.285	150	0.277	186	0.648	222	0.894	258	0.994	294	0.975	330	0.830
7	0.523	43	0.182	79	0.360	115	0.278	151	0.287	187	0.657	223	0.899	259	0.995	295	0.973	331	0.823
8	0.512	44	0.179	80	0.364	116	0.270	152	0.297	188	0.666	224	0.904	260	0.996	296	0.971	332	0.817
9	0.502	45	0.178	81	0.367	117	0.263	153	0.308	189	0.675	225	0.908	261	0.997	297	0.968	333	0.811
10	0.491	46	0.177	82	0.371	118	0.256	154	0.318	190	0.683	226	0.912	262	0.997	298	0.966	334	0.804
11	0.481	47	0.177	83	0.373	119	0.248	155	0.329	191	0.692	227	0.916	263	0.998	299	0.963	335	0.797
12	0.470	48	0.178	84	0.376	120	0.241	156	0.340	192	0.700	228	0.920	264	0.998	300	0.961	336	0.791
13	0.459	49	0.180	85	0.378	121	0.234	157	0.351	193	0.708	229	0.924	265	0.999	301	0.958	337	0.784
14	0.449	50	0.183	86	0.380	122	0.227	158	0.361	194	0.716	230	0.928	266	0.999	302	0.955	338	0.777
15	0.438	51	0.187	87	0.381	123	0.220	159	0.372	195	0.724	231	0.932	267	1.000	303	0.952	339	0.770
16	0.427	52	0.191	88	0.382	124	0.213	160	0.383	196	0.732	232	0.936	268	1.000	304	0.949	340	0.762
17	0.416	53	0.196	89	0.382	125	0.207	161	0.394	197	0.740	233	0.939	269	1.000	305	0.946	341	0.755
18	0.405	54	0.201	90	0.383	126	0.201	162	0.405	198	0.748	234	0.942	270	1.000	306	0.942	342	0.748
19	0.394	55	0.207	91	0.382	127	0.196	163	0.416	199	0.755	235	0.946	271	1.000	307	0.939	343	0.740
20	0.383	56	0.213	92	0.382	128	0.191	164	0.427	200	0.762	236	0.949	272	1.000	308	0.936	344	0.732
21	0.372	57	0.220	93	0.381	129	0.187	165	0.438	201	0.770	237	0.952	273	1.000	309	0.932	345	0.724
22	0.361	58	0.227	94	0.380	130	0.183	166	0.449	202	0.777	238	0.955	274	0.999	310	0.928	346	0.716
23	0.351	59	0.234	95	0.378	131	0.180	167	0.459	203	0.784	239	0.958	275	0.999	311	0.924	347	0.708
24	0.340	60	0.241	96	0.376	132	0.178	168	0.470	204	0.791	240	0.961	276	0.998	312	0.920	348	0.700
25	0.329	61	0.248	97	0.373	133	0.177	169	0.481	205	0.797	241	0.963	277	0.998	313	0.916	349	0.692
26	0.318	62	0.256	98	0.371	134	0.177	170	0.491	206	0.804	242	0.966	278	0.997	314	0.912	350	0.683
27	0.308	63	0.263	99	0.367	135	0.178	171	0.502	207	0.811	243	0.968	279	0.997	315	0.908	351	0.675
28	0.297	64	0.270	100	0.364	136	0.179	172	0.512	208	0.817	244	0.971	280	0.996	316	0.904	352	0.666
29	0.287	65	0.278	101	0.360	137	0.182	173	0.523	209	0.823	245	0.973	281	0.995	317	0.899	353	0.657
30	0.277	66	0.285	102	0.356	138	0.185	174	0.533	210	0.830	246	0.975	282	0.994	318	0.894	354	0.648
31	0.267	67	0.292	103	0.351	139	0.190	175	0.543	211	0.836	247	0.977	283	0.993	319	0.890	355	0.639
32	0.257	68	0.299	104	0.347	140	0.194	176	0.553	212	0.842	248	0.979	284	0.992	320	0.885	356	0.630
33	0.248	69	0.306	105	0.342	141	0.201	177	0.563	213	0.847	249	0.981	285	0.990	321	0.880	357	0.621
34	0.239	70	0.312	106	0.336	142	0.207	178	0.573	214	0.853	250	0.983	286	0.989	322	0.875	358	0.611
35	0.230	71	0.318	107	0.331	143	0.214	179	0.583	215	0.859	251	0.984	287	0.988	323	0.869	359	0.602

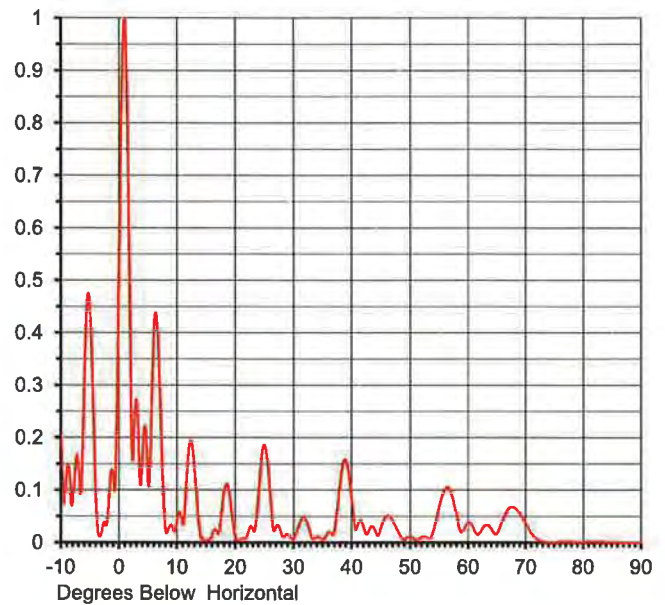
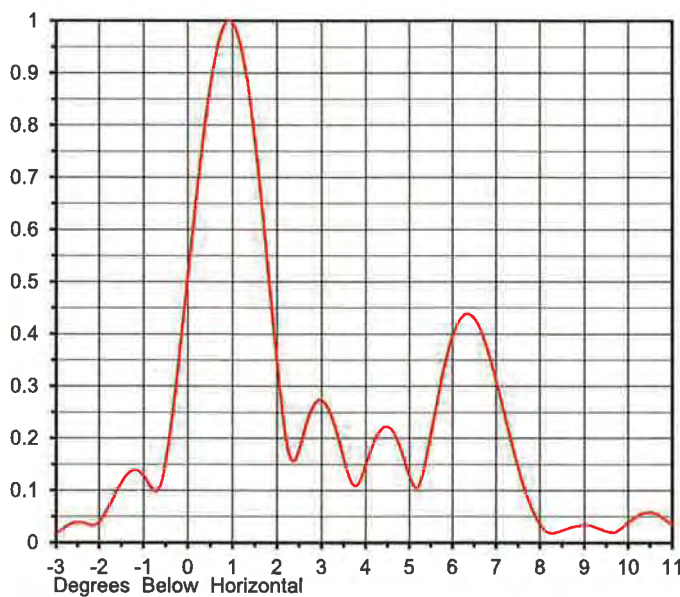
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ELEVATION PATTERN

Proposal No. **C-71062-1**
 Date **7-Mar-18**
 Call Letters **KRSU**
 Channel **32**
 Frequency **581 MHz**
 Antenna Type **TLP-32C-BB-R C230**

RMS Directivity at Main Lobe **25.2 (14.02 dB)**
 RMS Directivity at Horizontal **8.9 (9.49 dB)**
Calculated

Beam Tilt **0.85 deg**
 Pattern Number **32L252085**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.201	10.0	0.045	30.0	0.009	50.0	0.011	70.0	0.036
-9.0	0.139	11.0	0.035	31.0	0.038	51.0	0.005	71.0	0.019
-8.0	0.074	12.0	0.181	32.0	0.045	52.0	0.011	72.0	0.007
-7.0	0.141	13.0	0.133	33.0	0.013	53.0	0.010	73.0	0.002
-6.0	0.329	14.0	0.011	34.0	0.011	54.0	0.022	74.0	0.001
-5.0	0.426	15.0	0.004	35.0	0.006	55.0	0.066	75.0	0.001
-4.0	0.077	16.0	0.017	36.0	0.020	56.0	0.102	76.0	0.002
-3.0	0.023	17.0	0.017	37.0	0.023	57.0	0.097	77.0	0.002
-2.0	0.052	18.0	0.098	38.0	0.115	58.0	0.053	78.0	0.002
-1.0	0.116	19.0	0.086	39.0	0.157	59.0	0.021	79.0	0.001
0.0	0.594	20.0	0.010	40.0	0.078	60.0	0.038	80.0	0.001
1.0	0.978	21.0	0.008	41.0	0.033	61.0	0.027	81.0	0.002
2.0	0.271	22.0	0.015	42.0	0.032	62.0	0.019	82.0	0.002
3.0	0.265	23.0	0.026	43.0	0.025	63.0	0.034	83.0	0.002
4.0	0.173	24.0	0.108	44.0	0.024	64.0	0.028	84.0	0.001
5.0	0.110	25.0	0.186	45.0	0.028	65.0	0.018	85.0	0.001
6.0	0.416	26.0	0.081	46.0	0.051	66.0	0.044	86.0	0.001
7.0	0.278	27.0	0.032	47.0	0.042	67.0	0.065	87.0	0.000
8.0	0.025	28.0	0.013	48.0	0.021	68.0	0.067	88.0	0.000
9.0	0.034	29.0	0.016	49.0	0.006	69.0	0.055	89.0	0.000
						90.0	0.000		

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