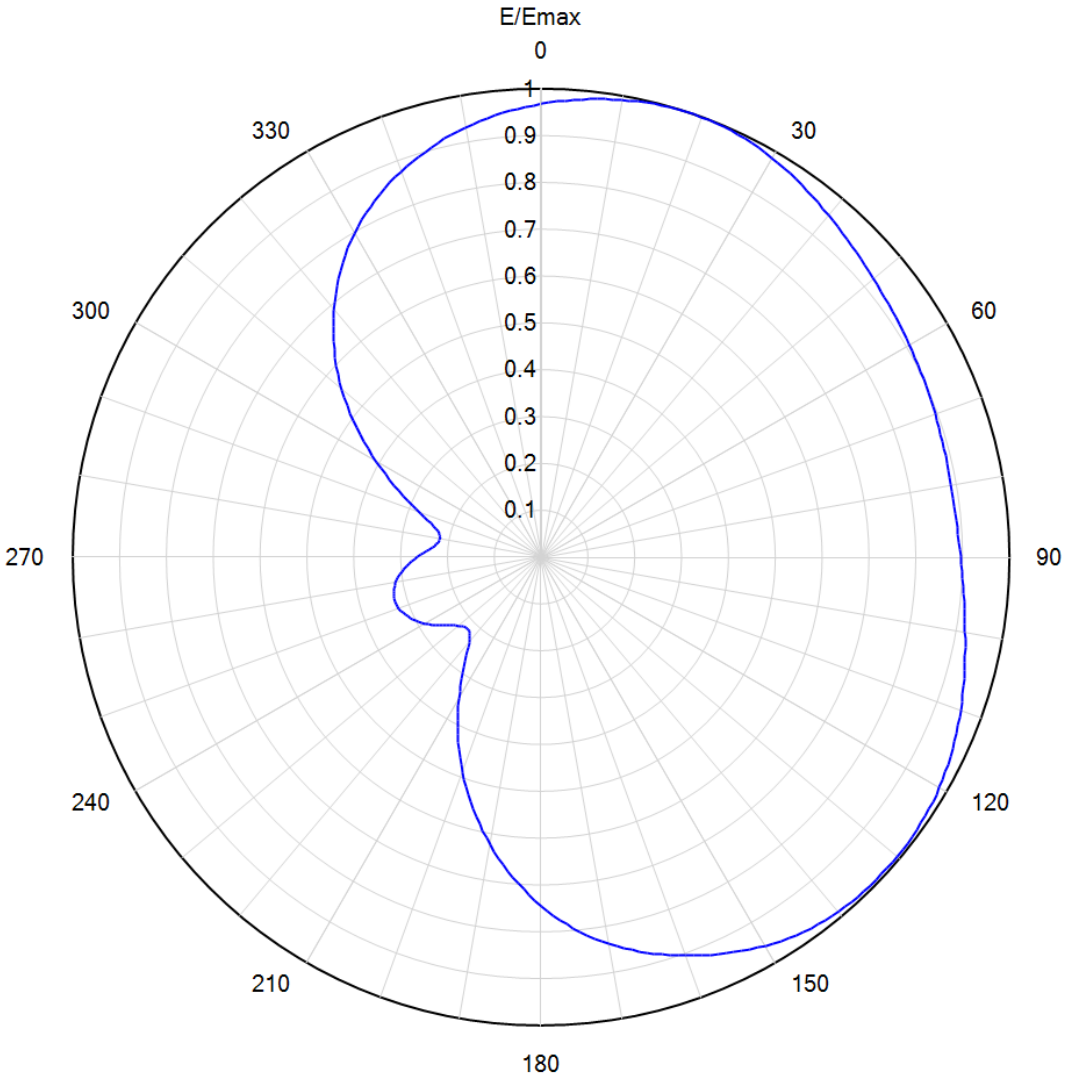
Azimuth Pattern



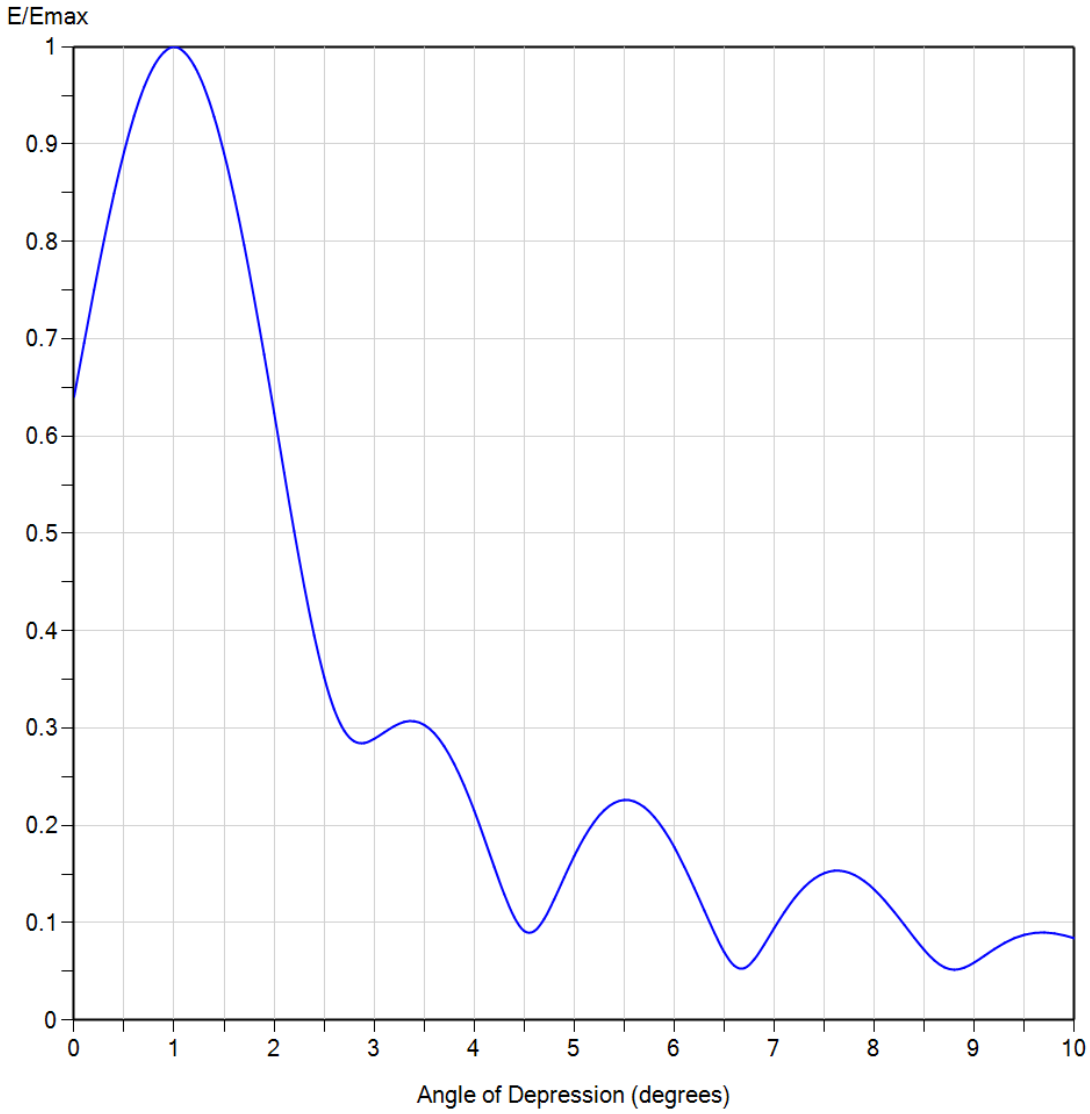
Model:	SBB-E-24C170	Polarisation:	Horizontal
Location:	Mt Morrison, CO	Frequency:	581.00 MHz
Customer:	Univision	Directivity:	1.7 (2.32 dB)
Date:	August 28, 2017	Elevation Angle:	1.00 degrees
Rotation Angle:	73 degrees	Horizontal Unit Pattern:	
Note: Pattern Tolerance +/-5% of Emax		File = SBB-C170-578.pat	

Model:	**SBB-E-24C170**	Polarization:	**Horizontal**
Location:	**Mt Morrison, CO**	Frequency (MHz):	**581.00**
Customer:	**Univision**	Directivity:	**1.7 (2.32 dB)**
Date:	**August 28, 2017**	Elevation Angle:	**1.00 degrees**
		Rotation Angle:	**73 degrees**

TABULATED AZIMUTH PATTERN

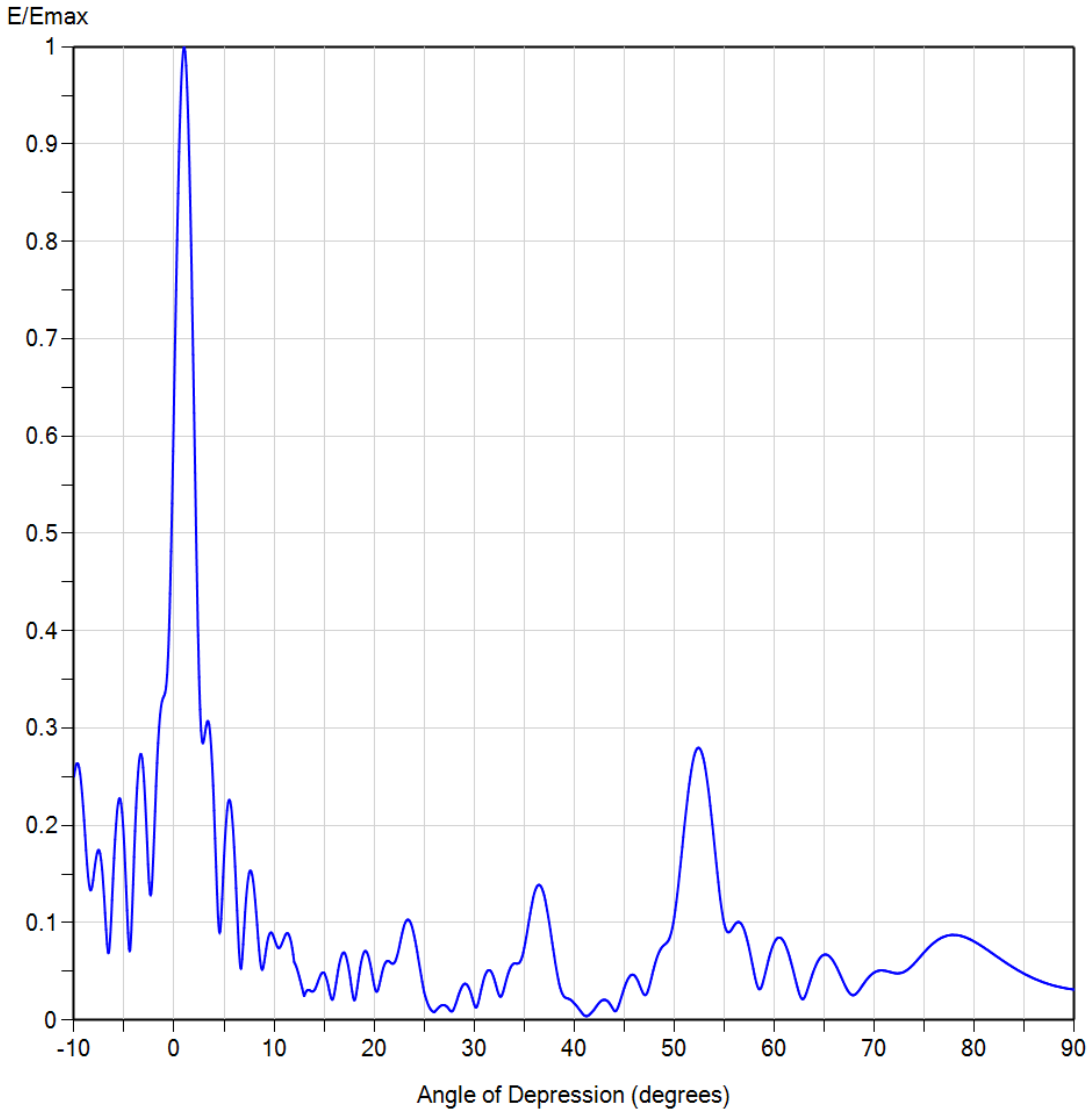
Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field
0	0.968	45	0.939	90	0.896	135	0.993	180	0.745	225	0.220	270	0.264	315	0.625
1	0.970	46	0.936	91	0.897	136	0.993	181	0.734	226	0.220	271	0.257	316	0.638
2	0.973	47	0.933	92	0.899	137	0.992	182	0.723	227	0.221	272	0.251	317	0.651
3	0.976	48	0.930	93	0.901	138	0.991	183	0.711	228	0.222	273	0.245	318	0.664
4	0.978	49	0.928	94	0.903	139	0.990	184	0.699	229	0.225	274	0.239	319	0.676
5	0.980	50	0.926	95	0.906	140	0.988	185	0.687	230	0.229	275	0.234	320	0.688
6	0.983	51	0.923	96	0.908	141	0.987	186	0.675	231	0.233	276	0.229	321	0.700
7	0.985	52	0.921	97	0.911	142	0.985	187	0.662	232	0.238	277	0.225	322	0.712
8	0.987	53	0.919	98	0.914	143	0.982	188	0.650	233	0.244	278	0.222	323	0.724
9	0.989	54	0.917	99	0.917	144	0.980	189	0.637	234	0.249	279	0.220	324	0.735
10	0.991	55	0.916	100	0.920	145	0.977	190	0.624	235	0.255	280	0.219	325	0.746
11	0.993	56	0.914	101	0.923	146	0.974	191	0.611	236	0.261	281	0.220	326	0.757
12	0.994	57	0.912	102	0.926	147	0.970	192	0.598	237	0.267	282	0.221	327	0.768
13	0.996	58	0.911	103	0.929	148	0.967	193	0.585	238	0.273	283	0.223	328	0.778
14	0.997	59	0.909	104	0.933	149	0.963	194	0.571	239	0.279	284	0.227	329	0.788
15	0.998	60	0.908	105	0.936	150	0.958	195	0.558	240	0.285	285	0.232	330	0.797
16	0.999	61	0.906	106	0.940	151	0.954	196	0.544	241	0.290	286	0.238	331	0.807
17	0.999	62	0.905	107	0.943	152	0.949	197	0.531	242	0.295	287	0.246	332	0.815
18	1.000	63	0.904	108	0.947	153	0.944	198	0.517	243	0.300	288	0.254	333	0.824
19	1.000	64	0.902	109	0.950	154	0.939	199	0.503	244	0.305	289	0.263	334	0.832
20	1.000	65	0.901	110	0.954	155	0.934	200	0.489	245	0.308	290	0.274	335	0.840
21	1.000	66	0.900	111	0.957	156	0.928	201	0.475	246	0.312	291	0.284	336	0.847
22	0.999	67	0.899	112	0.960	157	0.923	202	0.461	247	0.315	292	0.296	337	0.855
23	0.998	68	0.898	113	0.964	158	0.917	203	0.447	248	0.318	293	0.308	338	0.862
24	0.997	69	0.897	114	0.967	159	0.912	204	0.433	249	0.320	294	0.321	339	0.868
25	0.995	70	0.895	115	0.970	160	0.906	205	0.419	250	0.322	295	0.334	340	0.875
26	0.994	71	0.894	116	0.972	161	0.900	206	0.405	251	0.324	296	0.348	341	0.882
27	0.992	72	0.893	117	0.975	162	0.894	207	0.391	252	0.325	297	0.362	342	0.888
28	0.989	73	0.892	118	0.978	163	0.888	208	0.377	253	0.325	298	0.376	343	0.894
29	0.987	74	0.891	119	0.980	164	0.881	209	0.363	254	0.325	299	0.391	344	0.900
30	0.984	75	0.891	120	0.982	165	0.875	210	0.350	255	0.325	300	0.405	345	0.906
31	0.982	76	0.890	121	0.984	166	0.868	211	0.336	256	0.324	301	0.420	346	0.911
32	0.979	77	0.889	122	0.986	167	0.861	212	0.323	257	0.323	302	0.435	347	0.916
33	0.976	78	0.889	123	0.988	168	0.854	213	0.310	258	0.321	303	0.450	348	0.922
34	0.973	79	0.889	124	0.989	169	0.846	214	0.298	259	0.318	304	0.465	349	0.927
35	0.970	80	0.888	125	0.990	170	0.839	215	0.286	260	0.315	305	0.480	350	0.931
36	0.967	81	0.888	126	0.991	171	0.831	216	0.275	261	0.312	306	0.495	351	0.936
37	0.963	82	0.889	127	0.992	172	0.823	217	0.265	262	0.308	307	0.510	352	0.940
38	0.960	83	0.889	128	0.993	173	0.814	218	0.255	263	0.304	308	0.525	353	0.944
39	0.957	84	0.890	129	0.993	174	0.805	219	0.247	264	0.299	309	0.540	354	0.948
40	0.954	85	0.890	130	0.994	175	0.796	220	0.239	265	0.294	310	0.555	355	0.952
41	0.951	86	0.891	131	0.994	176	0.786	221	0.233	266	0.289	311	0.569	356	0.955
42	0.947	87	0.892	132	0.994	177	0.776	222	0.228	267	0.283	312	0.583	357	0.958
43	0.944	88	0.893	133	0.994	178	0.766	223	0.224	268	0.277	313	0.597	358	0.962
44	0.941	89	0.894	134	0.994	179	0.756	224	0.221	269	0.270	314	0.611	359	0.965

Elevation Pattern



Model:	SBB-E-24C170	Frequency:	581.00 MHz
Polarisation:	Horizontal	Directivity (Main Lobe):	22.7 (13.57 dBd)
Location:	Mt Morrison, CO	Directivity (At Horizon):	9.3 (9.70 dBd)
Customer:	Univision	Beam Tilt:	1.00 degrees
Date:	August 28, 2017	Azimuth Angle:	379 degrees

Elevation Pattern



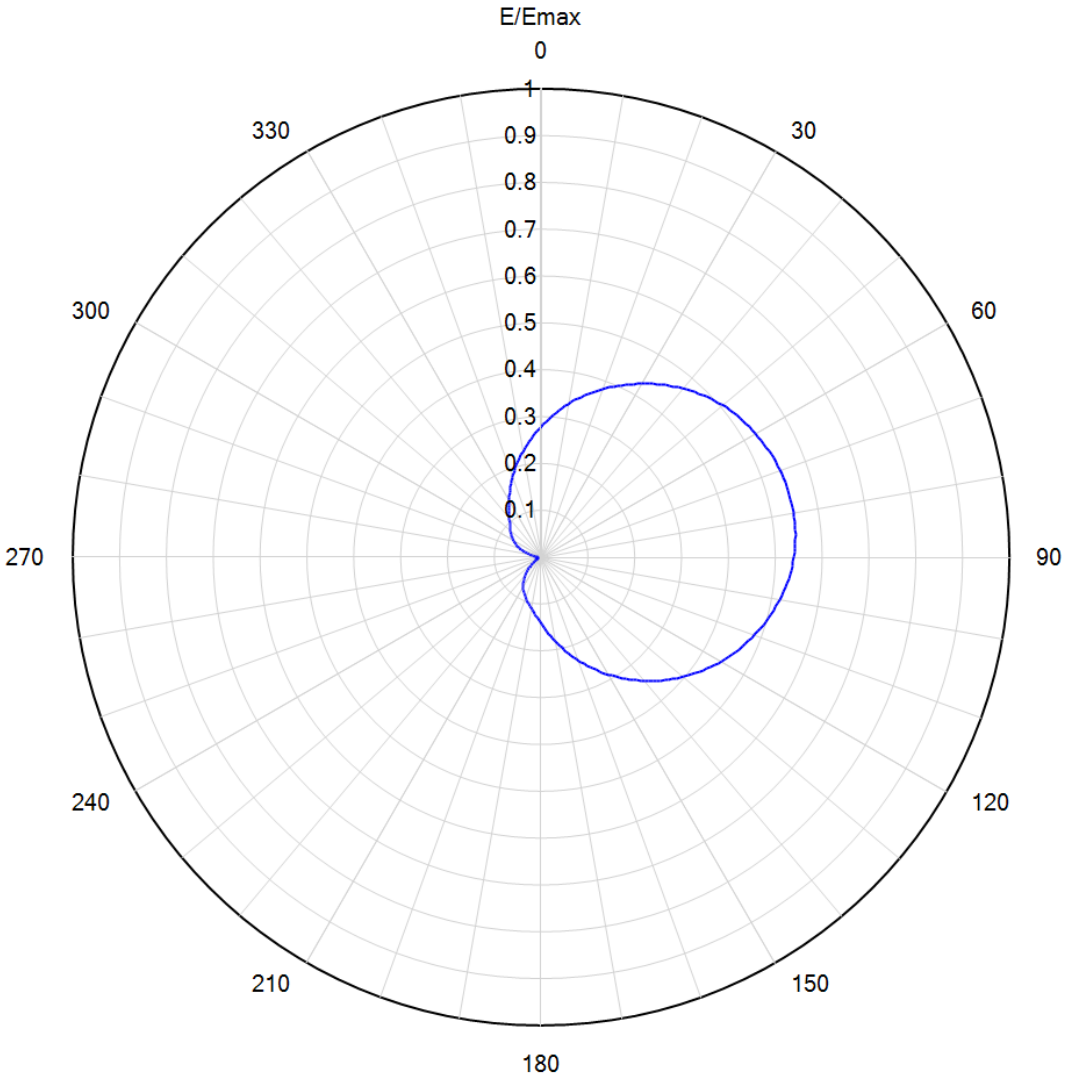
Model:	SBB-E-24C170	Frequency:	581.00 MHz
Polarisation:	Horizontal	Directivity (Main Lobe):	22.7 (13.57 dBd)
Location:	Mt Morrison, CO	Directivity (At Horizon):	9.3 (9.70 dBd)
Customer:	Univision	Beam Tilt:	1.00 degrees
Date:	August 28, 2017	Azimuth Angle:	379 degrees

Model:	**SBB-E-24C170**	Polarization:	**Horizontal**
Location:	**Mt Morrison, CO**	Frequency (MHz):	**581.00**
Customer:	**Univision**	Directivity (Main Lobe):	**22.7 (13.57 dB)**
Date:	**August 28, 2017**	Directivity (At Horizon):	**9.3 (9.70 dB)**
		Beam Tilt:	**1.00 degrees**

TABULATED ELEVATION PATTERN

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.250	2.4	0.395	10.6	0.075	30.5	0.022	51.0	0.198	71.5	0.050
-9.5	0.259	2.6	0.319	10.8	0.079	31.0	0.043	51.5	0.242	72.0	0.048
-9.0	0.205	2.8	0.286	11.0	0.084	31.5	0.051	52.0	0.272	72.5	0.048
-8.5	0.139	3.0	0.289	11.5	0.087	32.0	0.042	52.5	0.279	73.0	0.050
-8.0	0.152	3.2	0.302	12.0	0.060	32.5	0.025	53.0	0.264	73.5	0.053
-7.5	0.174	3.4	0.307	12.5	0.045	33.0	0.033	53.5	0.229	74.0	0.058
-7.0	0.127	3.6	0.295	13.0	0.025	33.5	0.051	54.0	0.181	74.5	0.064
-6.5	0.071	3.8	0.263	13.5	0.031	34.0	0.058	54.5	0.133	75.0	0.070
-6.0	0.167	4.0	0.215	14.0	0.030	34.5	0.059	55.0	0.099	75.5	0.075
-5.5	0.227	4.2	0.157	14.5	0.043	35.0	0.074	55.5	0.090	76.0	0.080
-5.0	0.182	4.4	0.106	15.0	0.048	35.5	0.104	56.0	0.097	76.5	0.083
-4.5	0.073	4.6	0.091	15.5	0.031	36.0	0.130	56.5	0.101	77.0	0.086
-4.0	0.168	4.8	0.124	16.0	0.026	36.5	0.139	57.0	0.092	77.5	0.087
-3.5	0.266	5.0	0.169	16.5	0.057	37.0	0.128	57.5	0.073	78.0	0.087
-3.0	0.246	5.2	0.204	17.0	0.069	37.5	0.100	58.0	0.047	78.5	0.087
-2.8	0.206	5.4	0.223	17.5	0.050	38.0	0.066	58.5	0.032	79.0	0.085
-2.6	0.160	5.6	0.225	18.0	0.020	38.5	0.037	59.0	0.044	79.5	0.083
-2.4	0.130	5.8	0.209	18.5	0.047	39.0	0.024	59.5	0.065	80.0	0.081
-2.2	0.142	6.0	0.178	19.0	0.070	39.5	0.022	60.0	0.080	80.5	0.078
-2.0	0.188	6.2	0.136	19.5	0.062	40.0	0.017	60.5	0.085	81.0	0.074
-1.8	0.240	6.4	0.090	20.0	0.036	40.5	0.011	61.0	0.080	81.5	0.071
-1.6	0.284	6.6	0.056	20.5	0.035	41.0	0.005	61.5	0.066	82.0	0.067
-1.4	0.314	6.8	0.062	21.0	0.056	41.5	0.005	62.0	0.046	82.5	0.063
-1.2	0.328	7.0	0.095	21.5	0.060	42.0	0.011	62.5	0.027	83.0	0.060
-1.0	0.333	7.2	0.125	22.0	0.059	42.5	0.018	63.0	0.023	83.5	0.057
-0.8	0.343	7.4	0.145	22.5	0.075	43.0	0.021	63.5	0.037	84.0	0.053
-0.6	0.374	7.6	0.153	23.0	0.097	43.5	0.018	64.0	0.052	84.5	0.050
-0.4	0.000	7.8	0.149	23.5	0.102	44.0	0.010	64.5	0.063	85.0	0.047
-0.2	0.000	8.0	0.134	24.0	0.087	44.5	0.017	65.0	0.067	85.5	0.045
0.0	0.640	8.2	0.111	24.5	0.058	45.0	0.033	65.5	0.066	86.0	0.043
0.2	0.750	8.4	0.084	25.0	0.029	45.5	0.044	66.0	0.059	86.5	0.040
0.4	0.850	8.6	0.061	25.5	0.013	46.0	0.046	66.5	0.048	87.0	0.038
0.6	0.000	8.8	0.052	26.0	0.008	46.5	0.037	67.0	0.037	87.5	0.037
0.8	0.981	9.0	0.059	26.5	0.013	47.0	0.026	67.5	0.028	88.0	0.035
1.0	1.000	9.2	0.073	27.0	0.015	47.5	0.035	68.0	0.026	88.5	0.034
1.2	0.981	9.4	0.084	27.5	0.011	48.0	0.055	68.5	0.031	89.0	0.033
1.4	0.928	9.6	0.090	28.0	0.012	48.5	0.070	69.0	0.038	89.5	0.032
1.6	0.846	9.8	0.089	28.5	0.028	49.0	0.077	69.5	0.045	90.0	0.000
1.8	0.742	10.0	0.084	29.0	0.037	49.5	0.084	70.0	0.049		
2.0	0.624	10.2	0.078	29.5	0.032	50.0	0.106	70.5	0.051		
2.2	0.502	10.4	0.074	30.0	0.016	50.5	0.148	71.0	0.051		

Azimuth Pattern



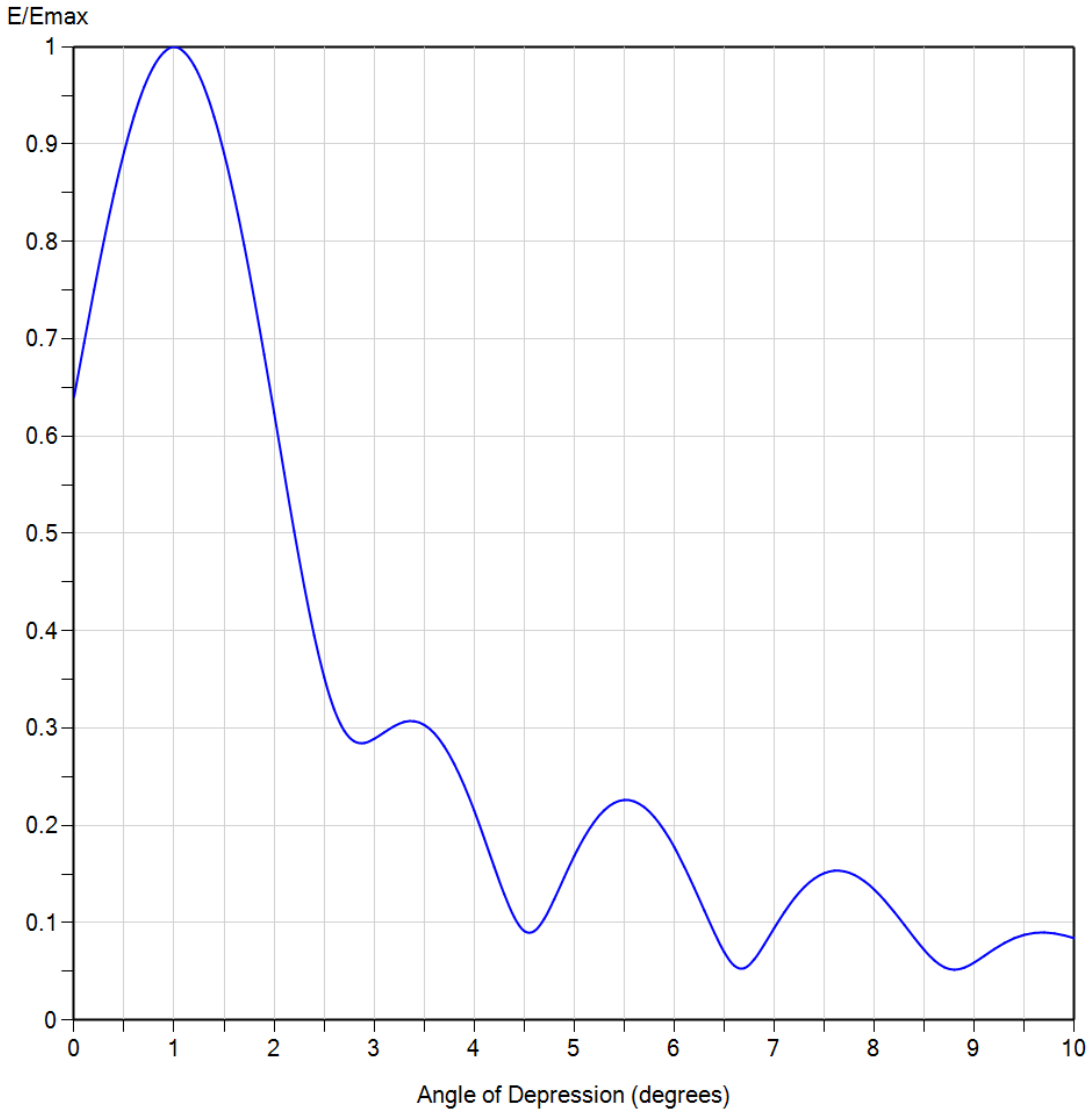
Model:	SBB-E-24C170	Polarisation:	Vertical
Location:	Mt Morrison, CO	Frequency:	581.00 MHz
Customer:	Univision	Directivity:	3.1 (4.91 dB)
Date:	August 28, 2017	Elevation Angle:	1.00 degrees
Rotation Angle:	73 degrees	Horizontal Unit Pattern:	
Note: Pattern Tolerance +/-5% of Emax		File = SBB-C170-585.pat	

Model:	**SBB-E-24C170**	Polarization:	**Vertical**
Location:	**Mt Morrison, CO**	Frequency (MHz):	**581.00**
Customer:	**Univision**	Directivity:	**3.1 (4.91 dB)**
Date:	**August 28, 2017**	Elevation Angle:	**1.00 degrees**
		Rotation Angle:	**73 degrees**

TABULATED AZIMUTH PATTERN

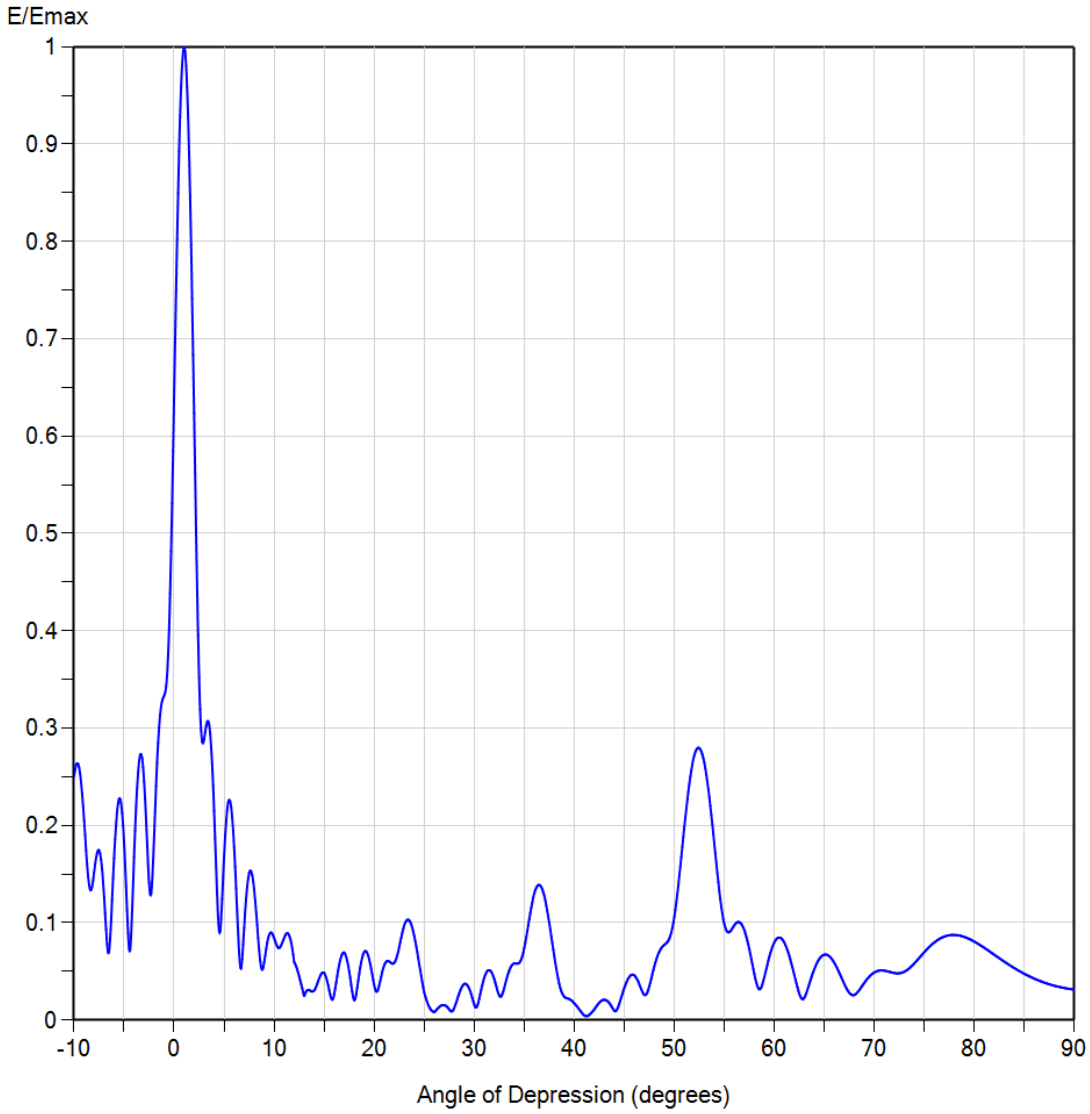
Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field
0	0.509	45	0.892	90	0.986	135	0.679	180	0.260	225	0.076	270	0.011	315	0.172
1	0.518	46	0.898	91	0.983	136	0.670	181	0.254	226	0.071	271	0.013	316	0.175
2	0.528	47	0.904	92	0.980	137	0.660	182	0.247	227	0.066	272	0.015	317	0.179
3	0.538	48	0.910	93	0.976	138	0.650	183	0.242	228	0.062	273	0.018	318	0.183
4	0.548	49	0.916	94	0.973	139	0.640	184	0.236	229	0.057	274	0.020	319	0.187
5	0.558	50	0.922	95	0.969	140	0.630	185	0.231	230	0.053	275	0.023	320	0.191
6	0.567	51	0.927	96	0.965	141	0.620	186	0.226	231	0.048	276	0.026	321	0.196
7	0.577	52	0.932	97	0.960	142	0.610	187	0.221	232	0.044	277	0.029	322	0.200
8	0.587	53	0.937	98	0.956	143	0.600	188	0.216	233	0.040	278	0.032	323	0.205
9	0.596	54	0.941	99	0.951	144	0.590	189	0.212	234	0.035	279	0.036	324	0.211
10	0.606	55	0.946	100	0.946	145	0.580	190	0.207	235	0.031	280	0.039	325	0.216
11	0.615	56	0.950	101	0.941	146	0.570	191	0.203	236	0.028	281	0.043	326	0.222
12	0.625	57	0.954	102	0.935	147	0.560	192	0.200	237	0.024	282	0.047	327	0.228
13	0.634	58	0.958	103	0.930	148	0.550	193	0.196	238	0.021	283	0.051	328	0.235
14	0.643	59	0.962	104	0.924	149	0.540	194	0.192	239	0.017	284	0.055	329	0.241
15	0.652	60	0.965	105	0.918	150	0.530	195	0.189	240	0.015	285	0.059	330	0.248
16	0.661	61	0.968	106	0.912	151	0.520	196	0.185	241	0.013	286	0.063	331	0.256
17	0.670	62	0.972	107	0.906	152	0.510	197	0.182	242	0.012	287	0.067	332	0.263
18	0.679	63	0.975	108	0.899	153	0.500	198	0.179	243	0.011	288	0.072	333	0.271
19	0.687	64	0.977	109	0.893	154	0.490	199	0.175	244	0.012	289	0.076	334	0.278
20	0.696	65	0.980	110	0.886	155	0.480	200	0.172	245	0.012	290	0.080	335	0.286
21	0.705	66	0.983	111	0.879	156	0.470	201	0.169	246	0.013	291	0.085	336	0.294
22	0.713	67	0.985	112	0.873	157	0.460	202	0.166	247	0.015	292	0.089	337	0.303
23	0.722	68	0.987	113	0.865	158	0.450	203	0.162	248	0.016	293	0.093	338	0.311
24	0.730	69	0.989	114	0.858	159	0.440	204	0.159	249	0.017	294	0.098	339	0.319
25	0.738	70	0.991	115	0.851	160	0.430	205	0.156	250	0.018	295	0.102	340	0.328
26	0.747	71	0.993	116	0.843	161	0.421	206	0.152	251	0.019	296	0.106	341	0.336
27	0.755	72	0.995	117	0.836	162	0.411	207	0.149	252	0.019	297	0.110	342	0.345
28	0.763	73	0.996	118	0.828	163	0.401	208	0.145	253	0.020	298	0.114	343	0.353
29	0.771	74	0.997	119	0.820	164	0.392	209	0.142	254	0.020	299	0.118	344	0.362
30	0.780	75	0.998	120	0.812	165	0.382	210	0.138	255	0.020	300	0.122	345	0.371
31	0.788	76	0.999	121	0.804	166	0.373	211	0.135	256	0.019	301	0.126	346	0.380
32	0.796	77	1.000	122	0.796	167	0.364	212	0.131	257	0.019	302	0.129	347	0.388
33	0.804	78	1.000	123	0.788	168	0.354	213	0.127	258	0.018	303	0.133	348	0.397
34	0.812	79	1.000	124	0.779	169	0.346	214	0.123	259	0.017	304	0.136	349	0.406
35	0.820	80	1.000	125	0.771	170	0.337	215	0.119	260	0.016	305	0.140	350	0.415
36	0.828	81	1.000	126	0.762	171	0.328	216	0.115	261	0.015	306	0.143	351	0.424
37	0.835	82	0.999	127	0.753	172	0.320	217	0.111	262	0.014	307	0.146	352	0.433
38	0.843	83	0.998	128	0.744	173	0.311	218	0.107	263	0.013	308	0.149	353	0.442
39	0.850	84	0.997	129	0.735	174	0.303	219	0.102	264	0.012	309	0.152	354	0.452
40	0.858	85	0.996	130	0.726	175	0.295	220	0.098	265	0.011	310	0.156	355	0.461
41	0.865	86	0.994	131	0.717	176	0.288	221	0.094	266	0.010	311	0.159	356	0.470
42	0.872	87	0.993	132	0.708	177	0.280	222	0.089	267	0.009	312	0.162	357	0.480
43	0.879	88	0.990	133	0.698	178	0.273	223	0.085	268	0.009	313	0.165	358	0.489
44	0.886	89	0.988	134	0.689	179	0.266	224	0.080	269	0.010	314	0.168	359	0.499

Elevation Pattern



Model:	SBB-E-24C170	Frequency:	581.00 MHz
Polarisation:	Vertical	Directivity (Main Lobe):	22.7 (13.57 dBd)
Location:	Mt Morrison, CO	Directivity (At Horizon):	9.3 (9.70 dBd)
Customer:	Univision	Beam Tilt:	1.00 degrees
Date:	August 28, 2017	Azimuth Angle:	79 degrees

Elevation Pattern



Model:	SBB-E-24C170	Frequency:	581.00 MHz
Polarisation:	Vertical	Directivity (Main Lobe):	22.7 (13.57 dBd)
Location:	Mt Morrison, CO	Directivity (At Horizon):	9.3 (9.70 dBd)
Customer:	Univision	Beam Tilt:	1.00 degrees
Date:	August 28, 2017	Azimuth Angle:	79 degrees

Model:	**SBB-E-24C170**	Polarization:	**Vertical**
Location:	**Mt Morrison, CO**	Frequency (MHz):	**581.00**
Customer:	**Univision**	Directivity (Main Lobe):	**22.7 (13.57 dB)**
Date:	**August 28, 2017**	Directivity (At Horizon):	**9.3 (9.70 dB)**
		Beam Tilt:	**1.00 degrees**

TABULATED ELEVATION PATTERN

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.250	2.4	0.395	10.6	0.075	30.5	0.022	51.0	0.198	71.5	0.050
-9.5	0.259	2.6	0.319	10.8	0.079	31.0	0.043	51.5	0.242	72.0	0.048
-9.0	0.205	2.8	0.286	11.0	0.084	31.5	0.051	52.0	0.272	72.5	0.048
-8.5	0.139	3.0	0.289	11.5	0.087	32.0	0.042	52.5	0.279	73.0	0.050
-8.0	0.152	3.2	0.302	12.0	0.060	32.5	0.025	53.0	0.264	73.5	0.053
-7.5	0.174	3.4	0.307	12.5	0.045	33.0	0.033	53.5	0.229	74.0	0.058
-7.0	0.127	3.6	0.295	13.0	0.025	33.5	0.051	54.0	0.181	74.5	0.064
-6.5	0.071	3.8	0.263	13.5	0.031	34.0	0.058	54.5	0.133	75.0	0.070
-6.0	0.167	4.0	0.215	14.0	0.030	34.5	0.059	55.0	0.099	75.5	0.075
-5.5	0.227	4.2	0.157	14.5	0.043	35.0	0.074	55.5	0.090	76.0	0.080
-5.0	0.182	4.4	0.106	15.0	0.048	35.5	0.104	56.0	0.097	76.5	0.083
-4.5	0.073	4.6	0.091	15.5	0.031	36.0	0.130	56.5	0.101	77.0	0.086
-4.0	0.168	4.8	0.124	16.0	0.026	36.5	0.139	57.0	0.092	77.5	0.087
-3.5	0.266	5.0	0.169	16.5	0.057	37.0	0.128	57.5	0.073	78.0	0.087
-3.0	0.246	5.2	0.204	17.0	0.069	37.5	0.100	58.0	0.047	78.5	0.087
-2.8	0.206	5.4	0.223	17.5	0.050	38.0	0.066	58.5	0.032	79.0	0.085
-2.6	0.160	5.6	0.225	18.0	0.020	38.5	0.037	59.0	0.044	79.5	0.083
-2.4	0.130	5.8	0.209	18.5	0.047	39.0	0.024	59.5	0.065	80.0	0.081
-2.2	0.142	6.0	0.178	19.0	0.070	39.5	0.022	60.0	0.080	80.5	0.078
-2.0	0.188	6.2	0.136	19.5	0.062	40.0	0.017	60.5	0.085	81.0	0.074
-1.8	0.240	6.4	0.090	20.0	0.036	40.5	0.011	61.0	0.080	81.5	0.071
-1.6	0.284	6.6	0.056	20.5	0.035	41.0	0.005	61.5	0.066	82.0	0.067
-1.4	0.314	6.8	0.062	21.0	0.056	41.5	0.005	62.0	0.046	82.5	0.063
-1.2	0.328	7.0	0.095	21.5	0.060	42.0	0.011	62.5	0.027	83.0	0.060
-1.0	0.333	7.2	0.125	22.0	0.059	42.5	0.018	63.0	0.023	83.5	0.057
-0.8	0.343	7.4	0.145	22.5	0.075	43.0	0.021	63.5	0.037	84.0	0.053
-0.6	0.374	7.6	0.153	23.0	0.097	43.5	0.018	64.0	0.052	84.5	0.050
-0.4	0.000	7.8	0.149	23.5	0.102	44.0	0.010	64.5	0.063	85.0	0.047
-0.2	0.000	8.0	0.134	24.0	0.087	44.5	0.017	65.0	0.067	85.5	0.045
0.0	0.640	8.2	0.111	24.5	0.058	45.0	0.033	65.5	0.066	86.0	0.043
0.2	0.750	8.4	0.084	25.0	0.029	45.5	0.044	66.0	0.059	86.5	0.040
0.4	0.850	8.6	0.061	25.5	0.013	46.0	0.046	66.5	0.048	87.0	0.038
0.6	0.000	8.8	0.052	26.0	0.008	46.5	0.037	67.0	0.037	87.5	0.037
0.8	0.981	9.0	0.059	26.5	0.013	47.0	0.026	67.5	0.028	88.0	0.035
1.0	1.000	9.2	0.073	27.0	0.015	47.5	0.035	68.0	0.026	88.5	0.034
1.2	0.981	9.4	0.084	27.5	0.011	48.0	0.055	68.5	0.031	89.0	0.033
1.4	0.928	9.6	0.090	28.0	0.012	48.5	0.070	69.0	0.038	89.5	0.032
1.6	0.846	9.8	0.089	28.5	0.028	49.0	0.077	69.5	0.045	90.0	0.000
1.8	0.742	10.0	0.084	29.0	0.037	49.5	0.084	70.0	0.049		
2.0	0.624	10.2	0.078	29.5	0.032	50.0	0.106	70.5	0.051		
2.2	0.502	10.4	0.074	30.0	0.016	50.5	0.148	71.0	0.051		