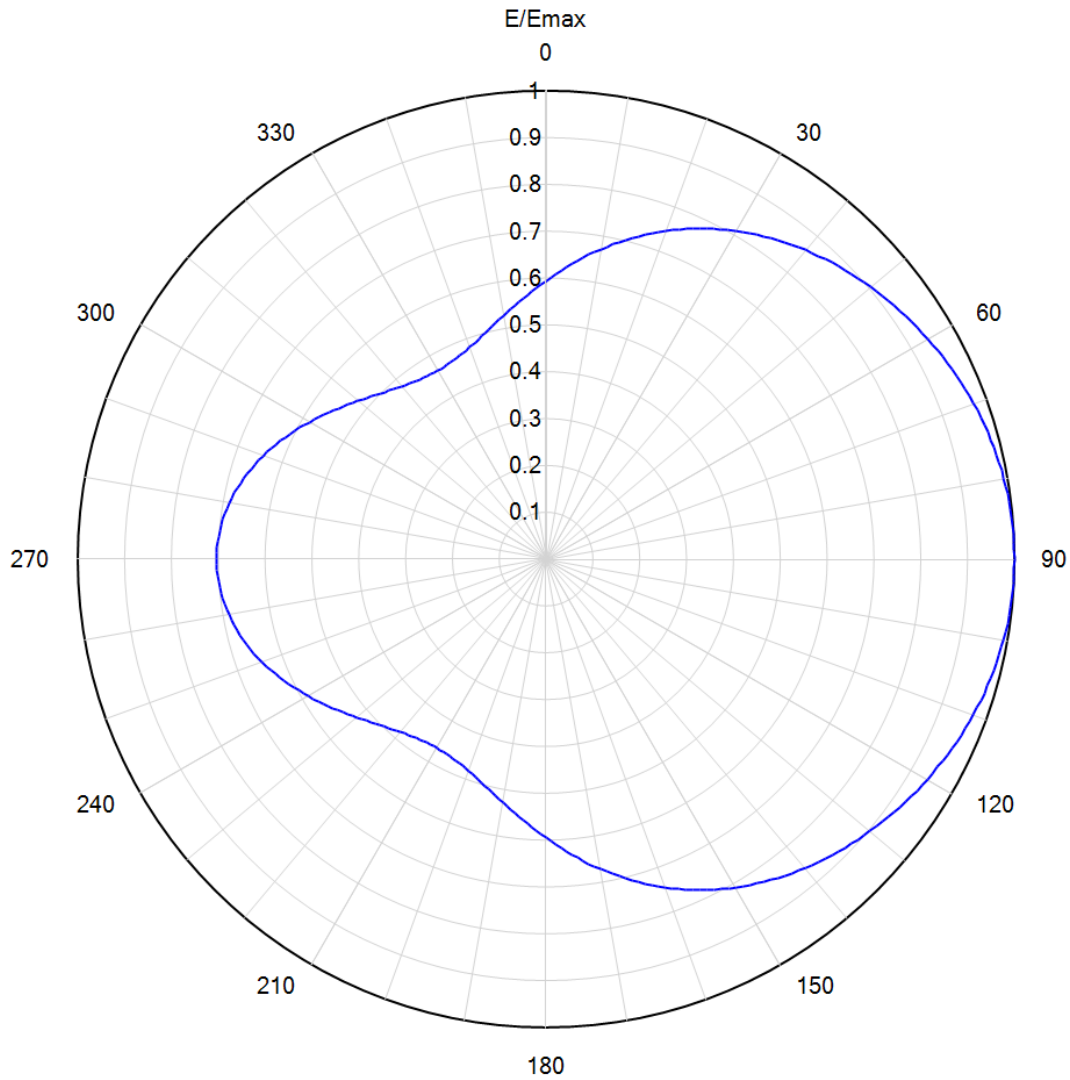




## Azimuth Pattern



Model: SAA21-WQHS-E400-ET6R-36

Location: Cleveland

Customer: Univision

Date: April 18, 2017

Rotation Angle: 90 degrees

Note: Pattern Tolerance +/-5% of Emax

Polarisation: Horizontal

Frequency: 605.00 MHz

Directivity: 1.9 (2.73 dB)

Elevation Angle: 1.00 degrees

Horizontal Unit Pattern:

File =



Model: **SAA21-WQHS-E400-ET6R-36**  
Location: **Cleveland**  
Customer: **Univision**  
Date: **April 18, 2017**

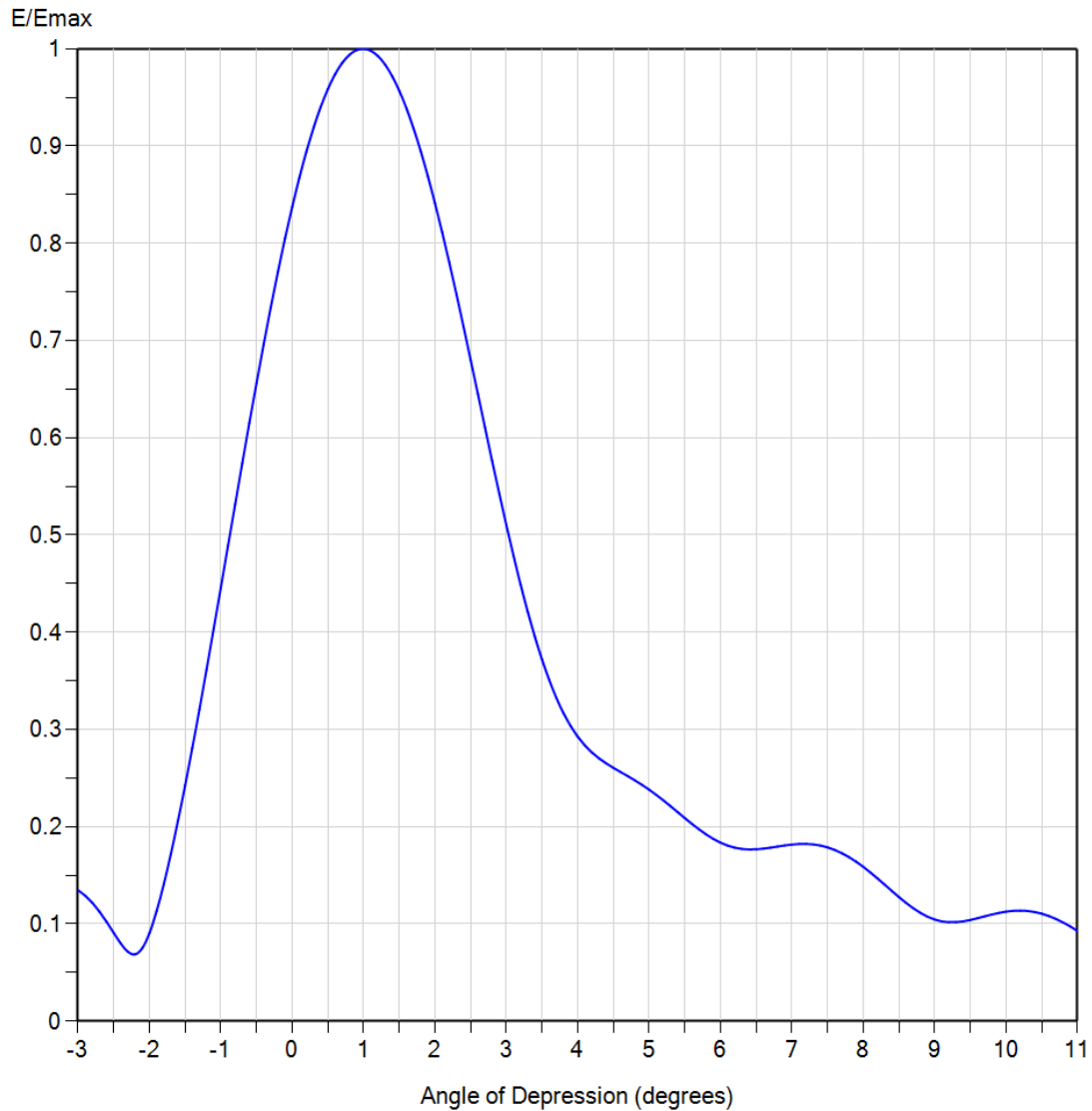
Polarization: **Horizontal**  
Frequency (MHz): **605.00**  
Directivity: **1.9 (2.73 dB)**  
Elevation Angle: **1.00 degrees**  
Rotation Angle: **90 degrees**

### TABULATED AZIMUTH PATTERN

Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field
0	0.595	45	0.883	90	1.000	135	0.883	180	0.596	225	0.502	270	0.703	315	0.500
1	0.602	46	0.888	91	1.000	136	0.879	181	0.589	226	0.506	271	0.703	316	0.496
2	0.610	47	0.892	92	1.000	137	0.874	182	0.581	227	0.511	272	0.703	317	0.492
3	0.617	48	0.896	93	0.999	138	0.870	183	0.574	228	0.516	273	0.702	318	0.488
4	0.625	49	0.900	94	0.999	139	0.866	184	0.567	229	0.521	274	0.701	319	0.484
5	0.633	50	0.904	95	0.998	140	0.861	185	0.560	230	0.527	275	0.699	320	0.481
6	0.641	51	0.908	96	0.997	141	0.856	186	0.553	231	0.532	276	0.697	321	0.478
7	0.648	52	0.912	97	0.996	142	0.851	187	0.547	232	0.538	277	0.695	322	0.475
8	0.656	53	0.916	98	0.995	143	0.847	188	0.540	233	0.543	278	0.693	323	0.473
9	0.664	54	0.919	99	0.994	144	0.842	189	0.534	234	0.549	279	0.690	324	0.470
10	0.672	55	0.923	100	0.992	145	0.836	190	0.528	235	0.555	280	0.687	325	0.469
11	0.679	56	0.927	101	0.991	146	0.831	191	0.522	236	0.561	281	0.684	326	0.467
12	0.687	57	0.930	102	0.989	147	0.826	192	0.517	237	0.567	282	0.680	327	0.466
13	0.695	58	0.934	103	0.987	148	0.821	193	0.512	238	0.573	283	0.677	328	0.465
14	0.702	59	0.937	104	0.985	149	0.815	194	0.506	239	0.579	284	0.673	329	0.464
15	0.710	60	0.941	105	0.983	150	0.809	195	0.502	240	0.586	285	0.668	330	0.464
16	0.717	61	0.944	106	0.981	151	0.804	196	0.497	241	0.592	286	0.664	331	0.464
17	0.724	62	0.947	107	0.978	152	0.798	197	0.493	242	0.598	287	0.659	332	0.465
18	0.731	63	0.951	108	0.976	153	0.792	198	0.489	243	0.604	288	0.654	333	0.465
19	0.739	64	0.954	109	0.974	154	0.785	199	0.485	244	0.610	289	0.649	334	0.466
20	0.746	65	0.957	110	0.971	155	0.779	200	0.482	245	0.616	290	0.644	335	0.468
21	0.752	66	0.960	111	0.968	156	0.773	201	0.479	246	0.622	291	0.638	336	0.470
22	0.759	67	0.963	112	0.965	157	0.766	202	0.476	247	0.628	292	0.633	337	0.472
23	0.766	68	0.966	113	0.962	158	0.760	203	0.474	248	0.634	293	0.627	338	0.474
24	0.772	69	0.969	114	0.960	159	0.753	204	0.472	249	0.639	294	0.621	339	0.477
25	0.779	70	0.971	115	0.956	160	0.746	205	0.470	250	0.645	295	0.615	340	0.480
26	0.785	71	0.974	116	0.953	161	0.739	206	0.468	251	0.650	296	0.609	341	0.483
27	0.791	72	0.976	117	0.950	162	0.732	207	0.467	252	0.655	297	0.603	342	0.487
28	0.797	73	0.979	118	0.947	163	0.725	208	0.467	253	0.660	298	0.597	343	0.491
29	0.803	74	0.981	119	0.944	164	0.718	209	0.466	254	0.665	299	0.590	344	0.495
30	0.809	75	0.983	120	0.940	165	0.710	210	0.466	255	0.669	300	0.584	345	0.500
31	0.815	76	0.985	121	0.937	166	0.703	211	0.466	256	0.673	301	0.578	346	0.505
32	0.820	77	0.987	122	0.933	167	0.695	212	0.467	257	0.677	302	0.572	347	0.510
33	0.826	78	0.989	123	0.930	168	0.688	213	0.468	258	0.681	303	0.566	348	0.515
34	0.831	79	0.991	124	0.926	169	0.680	214	0.469	259	0.685	304	0.560	349	0.521
35	0.836	80	0.992	125	0.923	170	0.673	215	0.470	260	0.688	305	0.554	350	0.527
36	0.842	81	0.994	126	0.919	171	0.665	216	0.472	261	0.691	306	0.548	351	0.533
37	0.847	82	0.995	127	0.915	172	0.657	217	0.474	262	0.693	307	0.542	352	0.539
38	0.851	83	0.996	128	0.911	173	0.649	218	0.477	263	0.696	308	0.536	353	0.545
39	0.856	84	0.997	129	0.907	174	0.642	219	0.480	264	0.698	309	0.530	354	0.552
40	0.861	85	0.998	130	0.904	175	0.634	220	0.483	265	0.699	310	0.525	355	0.559
41	0.866	86	0.999	131	0.900	176	0.626	221	0.486	266	0.701	311	0.519	356	0.566
42	0.870	87	0.999	132	0.896	177	0.619	222	0.490	267	0.702	312	0.514	357	0.573
43	0.875	88	1.000	133	0.892	178	0.611	223	0.493	268	0.703	313	0.509	358	0.580
44	0.879	89	1.000	134	0.887	179	0.603	224	0.498	269	0.703	314	0.505	359	0.587



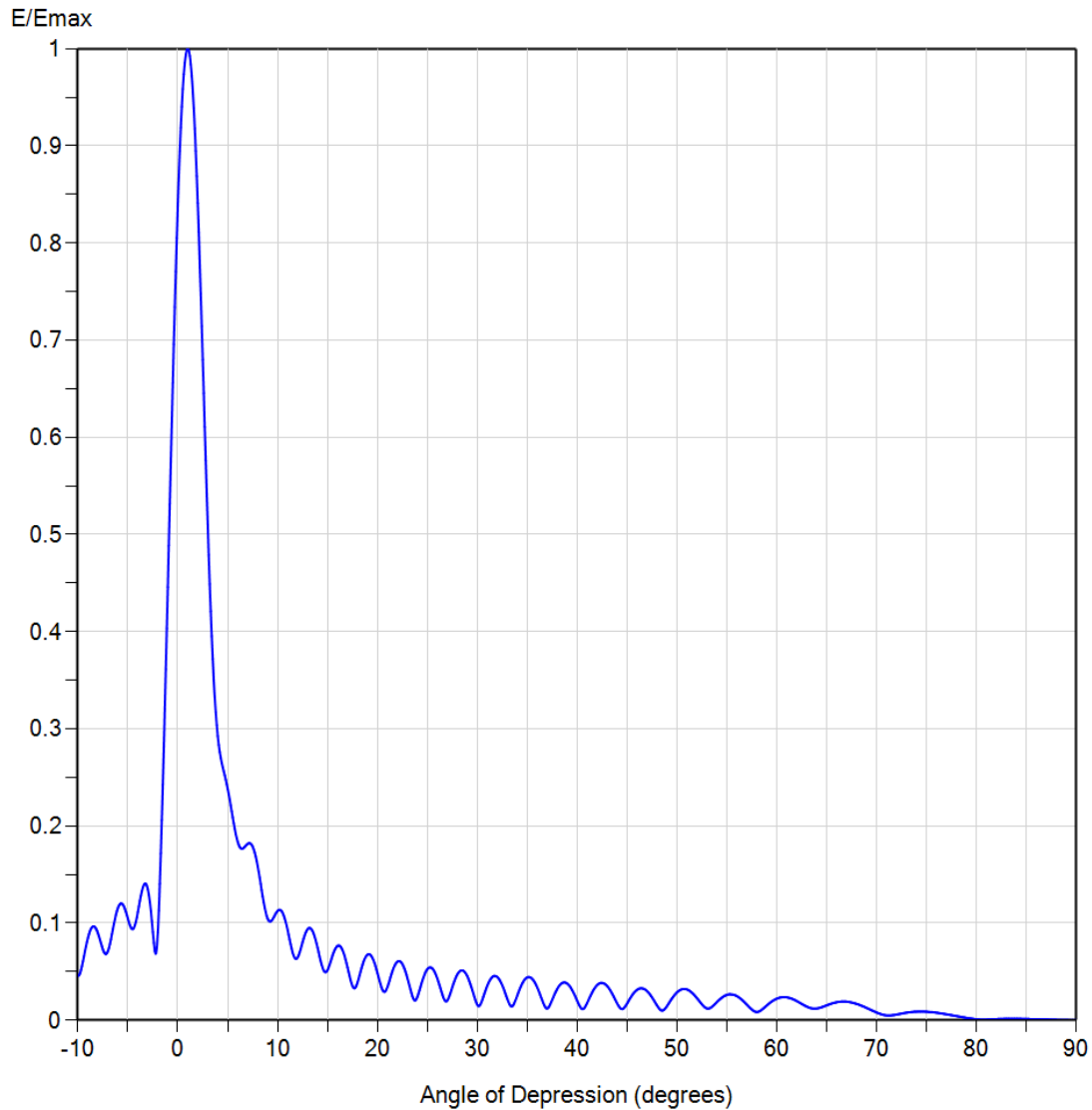
## Elevation Pattern



Model:	SAA21-WQHS-E400-ET6R-36	Frequency:	605.00 MHz
Polarisation:	<u>Horizontal</u>	Directivity (Main Lobe):	20.8 (13.19 dBd)
Location:	Cleveland	Directivity (Horizontal):	14.6 (11.65 dBd)
Customer:	Univision	Beam Tilt:	1.00 degrees
Date:	April 18, 2017	Azimuth Angle:	90 degrees



## Elevation Pattern



Model:	SAA21-WQHS-E400-ET6R-36	Frequency:	605.00 MHz
Polarisation:	<u>Horizontal</u>	Directivity (Main Lobe):	20.8 (13.19 dBd)
Location:	Cleveland	Directivity (Horizontal):	14.6 (11.65 dBd)
Customer:	Univision	Beam Tilt:	1.00 degrees
Date:	April 18, 2017	Azimuth Angle:	90 degrees



Model: **SAA21-WQHS-E400-ET6R-36**  
Location: **Cleveland**  
Customer: **Univision**  
Date: **April 18, 2017**

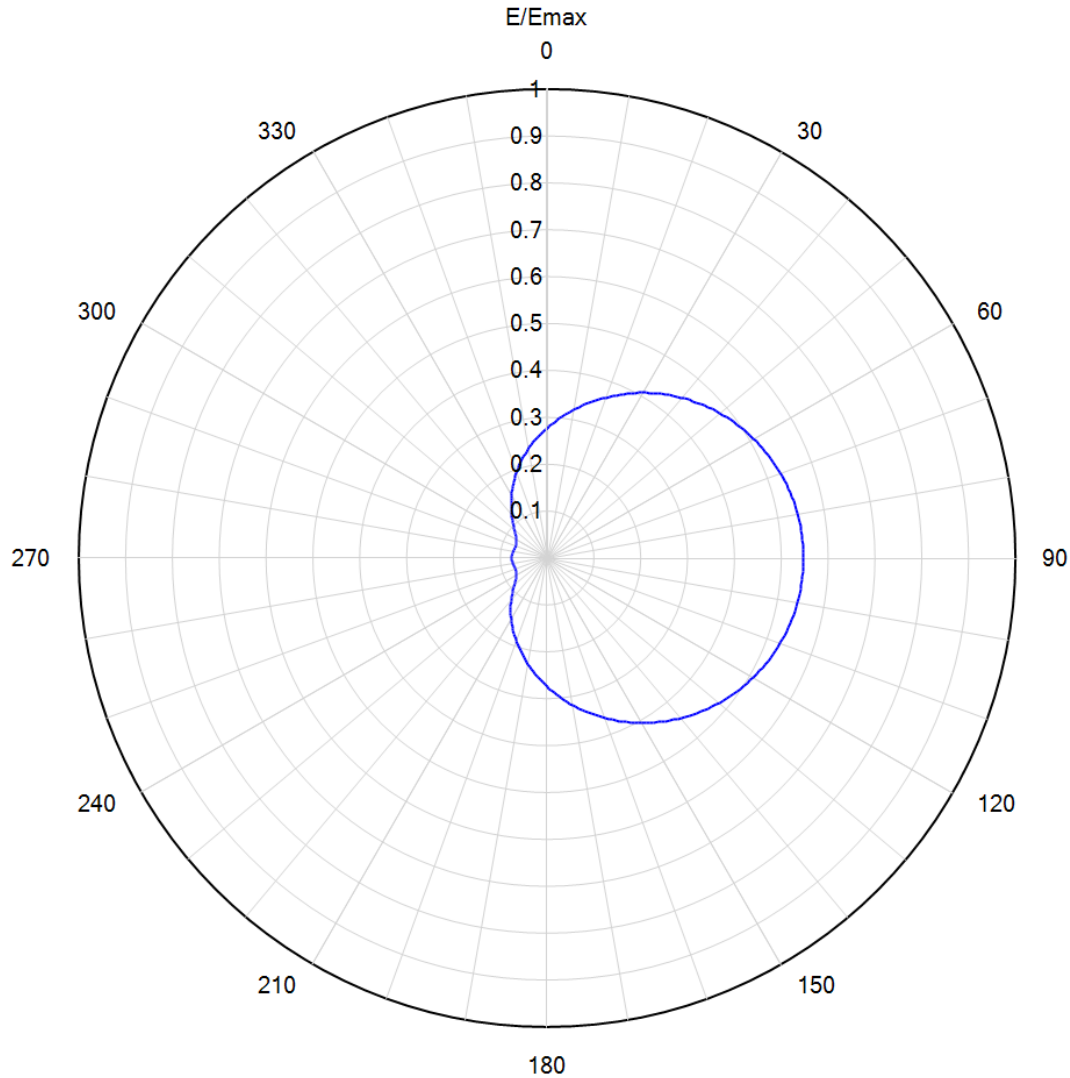
Polarization: **Horizontal**  
Frequency (MHz): **605.00**  
Directivity (Main Lobe): **20.8 (13.19 dB)**  
Directivity (At Horizon): **14.6 (11.65 dB)**  
Beam Tilt: **1.00 degrees**

**TABULATED ELEVATION PATTERN**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.046	2.4	0.714	10.6	0.108	30.5	0.021	51.0	0.032	71.5	0.005
-9.5	0.060	2.6	0.645	10.8	0.101	31.0	0.036	51.5	0.028	72.0	0.006
-9.0	0.085	2.8	0.576	11.0	0.093	31.5	0.044	52.0	0.023	72.5	0.007
-8.5	0.097	3.0	0.510	11.5	0.070	32.0	0.044	52.5	0.016	73.0	0.008
-8.0	0.090	3.2	0.449	12.0	0.065	32.5	0.036	53.0	0.012	73.5	0.008
-7.5	0.073	3.4	0.395	12.5	0.080	33.0	0.022	53.5	0.014	74.0	0.009
-7.0	0.071	3.6	0.351	13.0	0.094	33.5	0.014	54.0	0.019	74.5	0.009
-6.5	0.094	3.8	0.317	13.5	0.092	34.0	0.025	54.5	0.023	75.0	0.009
-6.0	0.115	4.0	0.293	14.0	0.075	34.5	0.038	55.0	0.026	75.5	0.008
-5.5	0.119	4.2	0.276	14.5	0.054	35.0	0.044	55.5	0.027	76.0	0.008
-5.0	0.105	4.4	0.265	15.0	0.052	35.5	0.043	56.0	0.025	76.5	0.007
-4.5	0.094	4.6	0.256	15.5	0.067	36.0	0.034	56.5	0.021	77.0	0.006
-4.0	0.111	4.8	0.248	16.0	0.077	36.5	0.020	57.0	0.016	77.5	0.005
-3.5	0.137	5.0	0.238	16.5	0.072	37.0	0.012	57.5	0.011	78.0	0.004
-3.0	0.135	5.2	0.227	17.0	0.054	37.5	0.021	58.0	0.008	78.5	0.003
-2.8	0.122	5.4	0.215	17.5	0.035	38.0	0.032	58.5	0.011	79.0	0.002
-2.6	0.102	5.6	0.203	18.0	0.039	38.5	0.038	59.0	0.015	79.5	0.002
-2.4	0.080	5.8	0.192	18.5	0.057	39.0	0.038	59.5	0.019	80.0	0.001
-2.2	0.069	6.0	0.184	19.0	0.067	39.5	0.031	60.0	0.022	80.5	0.000
-2.0	0.090	6.2	0.178	19.5	0.064	40.0	0.020	60.5	0.024	81.0	0.000
-1.8	0.141	6.4	0.177	20.0	0.048	40.5	0.011	61.0	0.023	81.5	0.001
-1.6	0.206	6.6	0.177	20.5	0.031	41.0	0.018	61.5	0.022	82.0	0.001
-1.4	0.281	6.8	0.180	21.0	0.034	41.5	0.029	62.0	0.020	82.5	0.001
-1.2	0.362	7.0	0.182	21.5	0.051	42.0	0.036	62.5	0.017	83.0	0.001
-1.0	0.446	7.2	0.182	22.0	0.060	42.5	0.038	63.0	0.014	83.5	0.002
-0.8	0.531	7.4	0.181	22.5	0.058	43.0	0.035	63.5	0.012	84.0	0.002
-0.6	0.615	7.6	0.176	23.0	0.043	43.5	0.027	64.0	0.012	84.5	0.001
-0.4	0.696	7.8	0.169	23.5	0.025	44.0	0.017	64.5	0.013	85.0	0.001
-0.2	0.771	8.0	0.159	24.0	0.024	44.5	0.011	65.0	0.015	85.5	0.001
0.0	0.837	8.2	0.147	24.5	0.041	45.0	0.017	65.5	0.017	86.0	0.001
0.2	0.895	8.4	0.134	25.0	0.053	45.5	0.026	66.0	0.019	86.5	0.001
0.4	0.940	8.6	0.122	25.5	0.053	46.0	0.031	66.5	0.019	87.0	0.001
0.6	0.974	8.8	0.111	26.0	0.043	46.5	0.033	67.0	0.019	87.5	0.000
0.8	0.994	9.0	0.104	26.5	0.026	47.0	0.030	67.5	0.018	88.0	0.000
1.0	1.000	9.2	0.102	27.0	0.020	47.5	0.023	68.0	0.017	88.5	0.000
1.2	0.993	9.4	0.103	27.5	0.034	48.0	0.015	68.5	0.015	89.0	0.000
1.4	0.972	9.6	0.106	28.0	0.047	48.5	0.010	69.0	0.013	89.5	0.000
1.6	0.939	9.8	0.110	28.5	0.051	49.0	0.015	69.5	0.010	90.0	0.000
1.8	0.895	10.0	0.113	29.0	0.045	49.5	0.023	70.0	0.008		
2.0	0.841	10.2	0.114	29.5	0.031	50.0	0.029	70.5	0.006		
2.2	0.780	10.4	0.112	30.0	0.016	50.5	0.032	71.0	0.005		



## Azimuth Pattern



Model: SAA21-S180-E300-ET6R-36

Location: Cleveland

Customer: Univision

Date: April 18, 2017

Rotation Angle: 90 degrees

Note: Pattern Tolerance +/-5% of Emax

Polarisation: Vertical

Frequency: 605.00 MHz

Directivity: 2.6 (4.22 dB)

Elevation Angle: 0.75 degrees

Horizontal Unit Pattern:

File =



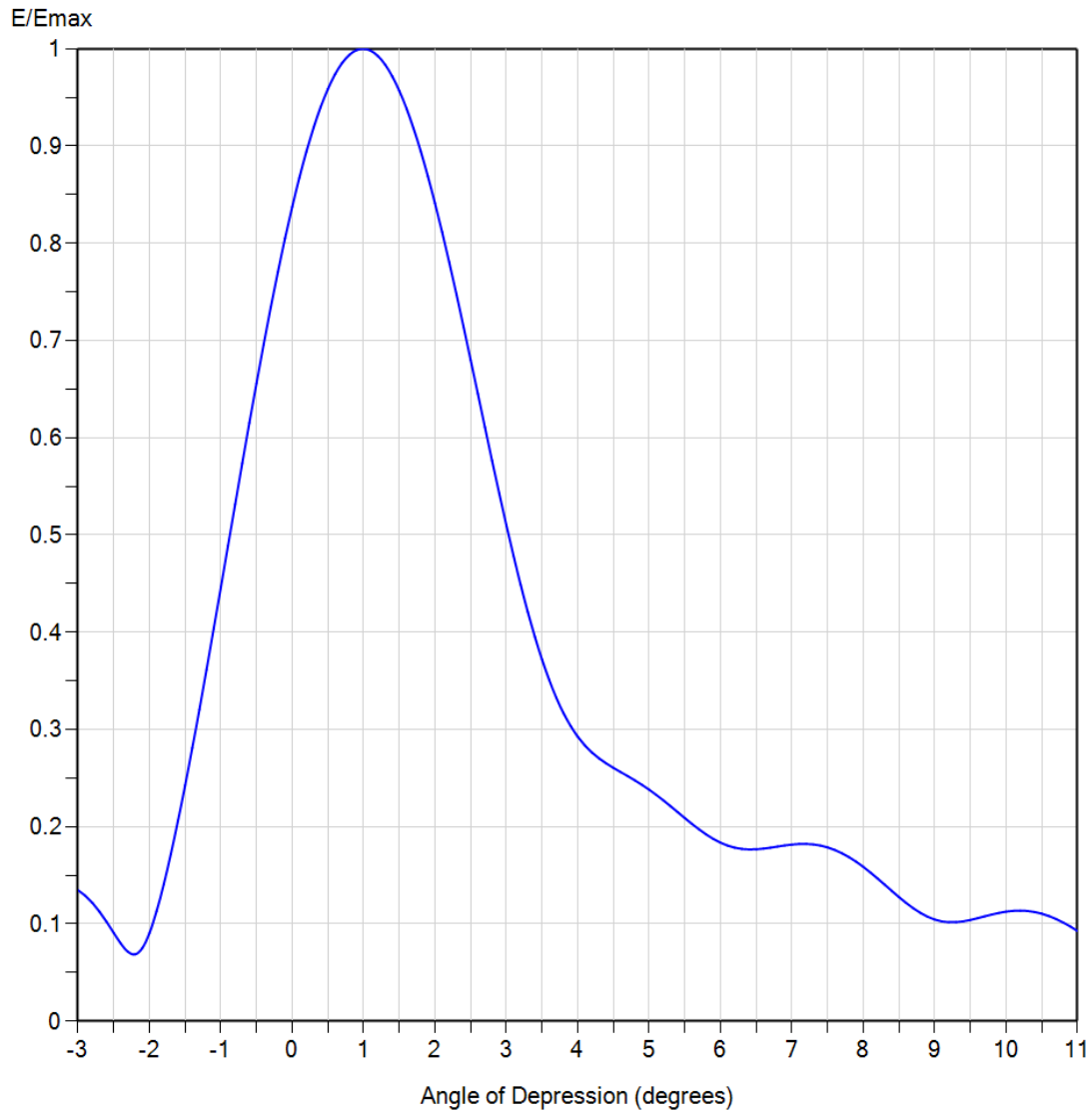
Model: **SAA21-WQHS-E400-ET6R-36** Polarization: **Vertical**  
Location: **Cleveland** Frequency (MHz): **605.00**  
Customer: **Univision** Directivity: **2.6 (4.22 dB)**  
Date: **April 18, 2017** Elevation Angle: **0.75 degrees**  
Rotation Angle: **90 degrees**

### TABULATED AZIMUTH PATTERN

Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field	Angl	Field
0	0.277	45	0.464	90	0.548	135	0.464	180	0.274	225	0.104	270	0.075	315	0.102
1	0.281	46	0.467	91	0.548	136	0.460	181	0.270	226	0.101	271	0.075	316	0.105
2	0.286	47	0.471	92	0.548	137	0.457	182	0.265	227	0.099	272	0.075	317	0.108
3	0.290	48	0.474	93	0.547	138	0.453	183	0.261	228	0.096	273	0.075	318	0.111
4	0.294	49	0.477	94	0.547	139	0.449	184	0.257	229	0.094	274	0.075	319	0.114
5	0.299	50	0.481	95	0.547	140	0.446	185	0.252	230	0.091	275	0.075	320	0.117
6	0.303	51	0.484	96	0.546	141	0.442	186	0.248	231	0.089	276	0.075	321	0.120
7	0.307	52	0.487	97	0.545	142	0.438	187	0.244	232	0.087	277	0.074	322	0.124
8	0.311	53	0.490	98	0.545	143	0.434	188	0.239	233	0.085	278	0.074	323	0.127
9	0.316	54	0.493	99	0.544	144	0.430	189	0.235	234	0.083	279	0.074	324	0.130
10	0.320	55	0.496	100	0.543	145	0.427	190	0.231	235	0.082	280	0.074	325	0.134
11	0.324	56	0.499	101	0.542	146	0.423	191	0.227	236	0.080	281	0.073	326	0.137
12	0.329	57	0.501	102	0.541	147	0.419	192	0.222	237	0.079	282	0.073	327	0.141
13	0.333	58	0.504	103	0.540	148	0.415	193	0.218	238	0.077	283	0.073	328	0.145
14	0.337	59	0.507	104	0.539	149	0.410	194	0.214	239	0.076	284	0.072	329	0.148
15	0.342	60	0.509	105	0.538	150	0.406	195	0.210	240	0.075	285	0.072	330	0.152
16	0.346	61	0.512	106	0.536	151	0.402	196	0.206	241	0.074	286	0.072	331	0.156
17	0.350	62	0.514	107	0.535	152	0.398	197	0.202	242	0.074	287	0.072	332	0.160
18	0.355	63	0.516	108	0.533	153	0.394	198	0.198	243	0.073	288	0.071	333	0.164
19	0.359	64	0.519	109	0.532	154	0.390	199	0.194	244	0.072	289	0.071	334	0.168
20	0.363	65	0.521	110	0.530	155	0.385	200	0.190	245	0.072	290	0.071	335	0.172
21	0.368	66	0.523	111	0.528	156	0.381	201	0.186	246	0.072	291	0.071	336	0.176
22	0.372	67	0.525	112	0.526	157	0.377	202	0.182	247	0.072	292	0.071	337	0.180
23	0.377	68	0.527	113	0.524	158	0.372	203	0.179	248	0.071	293	0.071	338	0.184
24	0.381	69	0.529	114	0.522	159	0.368	204	0.175	249	0.071	294	0.071	339	0.188
25	0.385	70	0.530	115	0.520	160	0.364	205	0.171	250	0.071	295	0.072	340	0.192
26	0.389	71	0.532	116	0.518	161	0.359	206	0.167	251	0.072	296	0.072	341	0.196
27	0.394	72	0.534	117	0.516	162	0.355	207	0.164	252	0.072	297	0.072	342	0.201
28	0.398	73	0.535	118	0.514	163	0.351	208	0.160	253	0.072	298	0.073	343	0.205
29	0.402	74	0.537	119	0.511	164	0.346	209	0.156	254	0.072	299	0.074	344	0.209
30	0.406	75	0.538	120	0.509	165	0.342	210	0.153	255	0.072	300	0.075	345	0.213
31	0.410	76	0.539	121	0.506	166	0.337	211	0.149	256	0.073	301	0.076	346	0.218
32	0.415	77	0.540	122	0.504	167	0.333	212	0.146	257	0.073	302	0.077	347	0.222
33	0.419	78	0.541	123	0.501	168	0.328	213	0.142	258	0.073	303	0.078	348	0.226
34	0.423	79	0.542	124	0.498	169	0.324	214	0.139	259	0.074	304	0.079	349	0.230
35	0.427	80	0.543	125	0.495	170	0.319	215	0.135	260	0.074	305	0.081	350	0.235
36	0.431	81	0.544	126	0.492	171	0.315	216	0.132	261	0.074	306	0.082	351	0.239
37	0.435	82	0.545	127	0.489	172	0.310	217	0.128	262	0.074	307	0.084	352	0.243
38	0.438	83	0.546	128	0.486	173	0.306	218	0.125	263	0.075	308	0.086	353	0.247
39	0.442	84	0.546	129	0.483	174	0.301	219	0.122	264	0.075	309	0.088	354	0.252
40	0.446	85	0.547	130	0.480	175	0.297	220	0.119	265	0.075	310	0.090	355	0.256
41	0.450	86	0.547	131	0.477	176	0.292	221	0.116	266	0.075	311	0.092	356	0.260
42	0.453	87	0.547	132	0.474	177	0.288	222	0.113	267	0.075	312	0.095	357	0.264
43	0.457	88	0.548	133	0.470	178	0.283	223	0.110	268	0.075	313	0.097	358	0.269
44	0.461	89	0.548	134	0.467	179	0.279	224	0.107	269	0.075	314	0.100	359	0.273



## Elevation Pattern

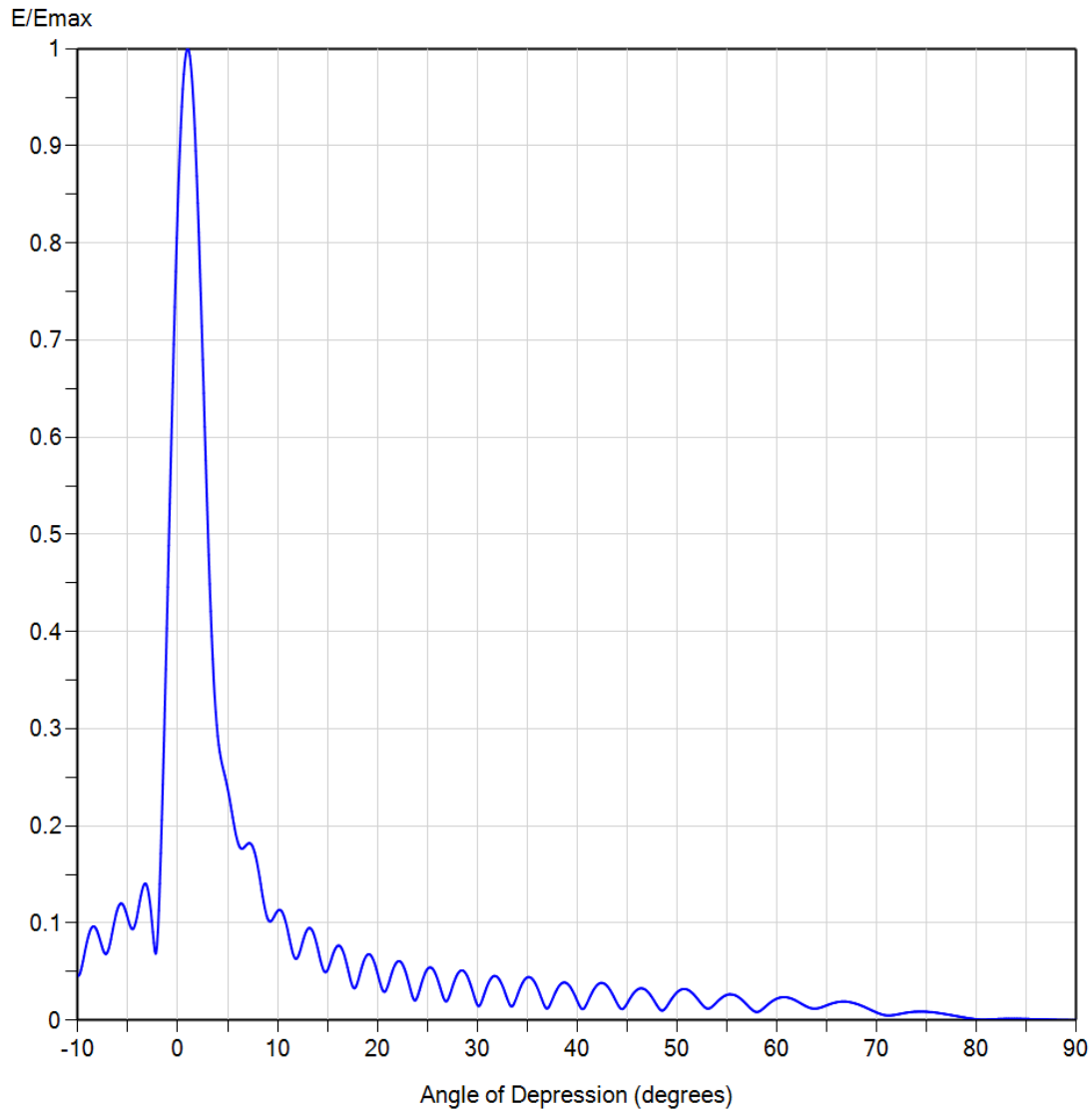


Model:	SAA21-WQHS-E400-ET6R-36	Frequency:	605.00 MHz
Polarisation:	<u>Vertical</u>	Directivity (Main Lobe):	20.8 (13.19 dBd)
Location:	Cleveland	Directivity (Horizontal):	14.6 (11.65 dBd)
Customer:	Univision	Beam Tilt:	1.00 degrees
Date:	April 18, 2017	Azimuth Angle:	90 degrees





## Elevation Pattern



Model:	SAA21-WQHS-E400-ET6R-36	Frequency:	605.00 MHz
Polarisation:	<u>Vertical</u>	Directivity (Main Lobe):	20.8 (13.19 dBd)
Location:	Cleveland	Directivity (Horizontal):	14.6 (11.65 dBd)
Customer:	Univision	Beam Tilt:	1.00 degrees
Date:	April 18, 2017	Azimuth Angle:	90 degrees



Model: **SAA21-WQHS-E400-ET6R-36**  
Location: **Cleveland**  
Customer: **Univision**  
Date: **April 18, 2017**

Polarization: **Vertical**  
Frequency (MHz): **605.00**  
Directivity (Main Lobe): **20.8 (13.19 dB)**  
Directivity (At Horizon): **14.6 (11.65 dB)**  
Beam Tilt: **1.00 degrees**

**TABULATED ELEVATION PATTERN**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.046	2.4	0.714	10.6	0.108	30.5	0.021	51.0	0.032	71.5	0.005
-9.5	0.060	2.6	0.645	10.8	0.101	31.0	0.036	51.5	0.028	72.0	0.006
-9.0	0.085	2.8	0.576	11.0	0.093	31.5	0.044	52.0	0.023	72.5	0.007
-8.5	0.097	3.0	0.510	11.5	0.070	32.0	0.044	52.5	0.016	73.0	0.008
-8.0	0.090	3.2	0.449	12.0	0.065	32.5	0.036	53.0	0.012	73.5	0.008
-7.5	0.073	3.4	0.395	12.5	0.080	33.0	0.022	53.5	0.014	74.0	0.009
-7.0	0.071	3.6	0.351	13.0	0.094	33.5	0.014	54.0	0.019	74.5	0.009
-6.5	0.094	3.8	0.317	13.5	0.092	34.0	0.025	54.5	0.023	75.0	0.009
-6.0	0.115	4.0	0.293	14.0	0.075	34.5	0.038	55.0	0.026	75.5	0.008
-5.5	0.119	4.2	0.276	14.5	0.054	35.0	0.044	55.5	0.027	76.0	0.008
-5.0	0.105	4.4	0.265	15.0	0.052	35.5	0.043	56.0	0.025	76.5	0.007
-4.5	0.094	4.6	0.256	15.5	0.067	36.0	0.034	56.5	0.021	77.0	0.006
-4.0	0.111	4.8	0.248	16.0	0.077	36.5	0.020	57.0	0.016	77.5	0.005
-3.5	0.137	5.0	0.238	16.5	0.072	37.0	0.012	57.5	0.011	78.0	0.004
-3.0	0.135	5.2	0.227	17.0	0.054	37.5	0.021	58.0	0.008	78.5	0.003
-2.8	0.122	5.4	0.215	17.5	0.035	38.0	0.032	58.5	0.011	79.0	0.002
-2.6	0.102	5.6	0.203	18.0	0.039	38.5	0.038	59.0	0.015	79.5	0.002
-2.4	0.080	5.8	0.192	18.5	0.057	39.0	0.038	59.5	0.019	80.0	0.001
-2.2	0.069	6.0	0.184	19.0	0.067	39.5	0.031	60.0	0.022	80.5	0.000
-2.0	0.090	6.2	0.178	19.5	0.064	40.0	0.020	60.5	0.024	81.0	0.000
-1.8	0.141	6.4	0.177	20.0	0.048	40.5	0.011	61.0	0.023	81.5	0.001
-1.6	0.206	6.6	0.177	20.5	0.031	41.0	0.018	61.5	0.022	82.0	0.001
-1.4	0.281	6.8	0.180	21.0	0.034	41.5	0.029	62.0	0.020	82.5	0.001
-1.2	0.362	7.0	0.182	21.5	0.051	42.0	0.036	62.5	0.017	83.0	0.001
-1.0	0.446	7.2	0.182	22.0	0.060	42.5	0.038	63.0	0.014	83.5	0.002
-0.8	0.531	7.4	0.181	22.5	0.058	43.0	0.035	63.5	0.012	84.0	0.002
-0.6	0.615	7.6	0.176	23.0	0.043	43.5	0.027	64.0	0.012	84.5	0.001
-0.4	0.696	7.8	0.169	23.5	0.025	44.0	0.017	64.5	0.013	85.0	0.001
-0.2	0.771	8.0	0.159	24.0	0.024	44.5	0.011	65.0	0.015	85.5	0.001
0.0	0.837	8.2	0.147	24.5	0.041	45.0	0.017	65.5	0.017	86.0	0.001
0.2	0.895	8.4	0.134	25.0	0.053	45.5	0.026	66.0	0.019	86.5	0.001
0.4	0.940	8.6	0.122	25.5	0.053	46.0	0.031	66.5	0.019	87.0	0.001
0.6	0.974	8.8	0.111	26.0	0.043	46.5	0.033	67.0	0.019	87.5	0.000
0.8	0.994	9.0	0.104	26.5	0.026	47.0	0.030	67.5	0.018	88.0	0.000
1.0	1.000	9.2	0.102	27.0	0.020	47.5	0.023	68.0	0.017	88.5	0.000
1.2	0.993	9.4	0.103	27.5	0.034	48.0	0.015	68.5	0.015	89.0	0.000
1.4	0.972	9.6	0.106	28.0	0.047	48.5	0.010	69.0	0.013	89.5	0.000
1.6	0.939	9.8	0.110	28.5	0.051	49.0	0.015	69.5	0.010	90.0	0.000
1.8	0.895	10.0	0.113	29.0	0.045	49.5	0.023	70.0	0.008		
2.0	0.841	10.2	0.114	29.5	0.031	50.0	0.029	70.5	0.006		
2.2	0.780	10.4	0.112	30.0	0.016	50.5	0.032	71.0	0.005		