

## FACILITY INFORMATION

Facility ID:	760246				
Channel:	30				
Geographic Coordinates (NAD83):	LAT	39-28-36.6 N			
	LONG	76-39-13.3 W			
Antenna Structure Registration:	SBG-HQ ROOFTOP				
Structure Address:	Hunt Valley,MD				
Overall Tower Height:	27.4 m				
Ground Elevation:	87.0 m				
Maximum Effective Radiated Power:	H-Pol	1	kW		
	V-Pol	1	kW		
Radiation Center:	AGL	24.0 m	78.7 ft		
	HAAT	-88.0 m	-288.6 ft		
	AMSL	111.0 m	364.1 ft		
Antenna Type:	TUX-01/01				
Antenna Polarization:	Circular				
Antenna Gain:	Power Gain	H-Pol	5.00	dBd	7.0 dBd
		V-Pol	5.00	dBd	7.0 dBd
Antenna Input Power:	0.20 kW				
Antenna Major Lobe Orientation:	80.0 ° TRUE				
Beam Tilt:	Elec	2.00 °			
	Mech	0.00 °			
Transmission Line:	7/8 Foam - 160.00 ft.				
Transmitter Power Output:	0.28 kW				
Emission Mask:	Simple				

## AZIMUTH PATTERN

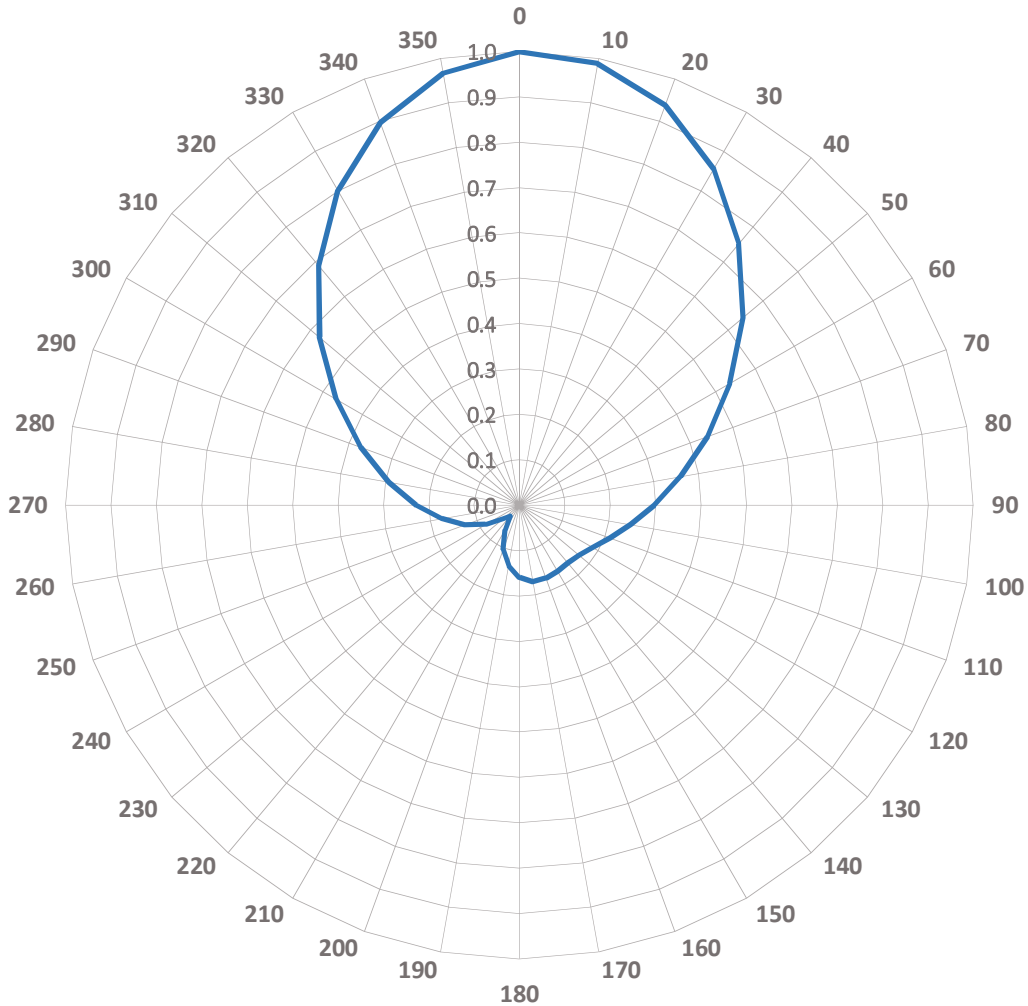
Facility ID : 760246

Azimuth Pattern: TUX-01/01

Azimuth Gain: 3.85 (5.85 dB)

Channel (Freq): 30 (566 - 572 MHz)

Polarization: Horizontal



Pre-rotation pattern shown.

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.999	-0.012	90	0.297	-10.548	180	0.160	-15.918	270	0.228	-12.830
10	0.988	-0.101	100	0.248	-12.097	190	0.137	-17.272	280	0.293	-10.651
20	0.938	-0.556	110	0.213	-13.453	200	0.103	-19.726	290	0.373	-8.573
30	0.855	-1.357	120	0.187	-14.549	210	0.064	-23.917	300	0.467	-6.612
40	0.753	-2.469	130	0.172	-15.289	220	0.032	-29.924	310	0.575	-4.814
50	0.642	-3.847	140	0.166	-15.582	230	0.047	-26.651	320	0.689	-3.236
60	0.536	-5.425	150	0.168	-15.499	240	0.085	-21.371	330	0.801	-1.931
70	0.440	-7.129	160	0.172	-15.305	250	0.128	-17.863	340	0.898	-0.939
80	0.360	-8.864	170	0.171	-15.345	260	0.174	-15.169	350	0.967	-0.293

Additional Points:

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB

## AZIMUTH PATTERN TABULATED DATA

Facility ID : 760246

Azimuth Pattern: TUX-01/01

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.999	-0.01	92	0.286	-10.87	184	0.152	-16.35	276	0.266	-11.51
2	1.000	0.00	94	0.276	-11.18	186	0.148	-16.62	278	0.279	-11.08
4	1.000	0.00	96	0.266	-11.50	188	0.143	-16.92	280	0.293	-10.65
6	0.998	-0.02	98	0.257	-11.80	190	0.137	-17.27	282	0.308	-10.23
8	0.994	-0.05	100	0.248	-12.10	192	0.131	-17.66	284	0.323	-9.81
10	0.988	-0.10	102	0.240	-12.38	194	0.125	-18.10	286	0.339	-9.39
12	0.981	-0.16	104	0.233	-12.66	196	0.118	-18.58	288	0.356	-8.98
14	0.973	-0.24	106	0.226	-12.94	198	0.111	-19.12	290	0.373	-8.57
16	0.963	-0.33	108	0.219	-13.20	200	0.103	-19.73	292	0.390	-8.17
18	0.951	-0.44	110	0.213	-13.45	202	0.096	-20.40	294	0.409	-7.77
20	0.938	-0.56	112	0.207	-13.69	204	0.088	-21.14	296	0.428	-7.38
22	0.924	-0.69	114	0.201	-13.93	206	0.080	-21.97	298	0.447	-6.99
24	0.908	-0.84	116	0.196	-14.15	208	0.072	-22.89	300	0.467	-6.61
26	0.892	-1.00	118	0.192	-14.35	210	0.064	-23.92	302	0.488	-6.24
28	0.874	-1.17	120	0.187	-14.55	212	0.056	-25.05	304	0.509	-5.87
30	0.855	-1.36	122	0.184	-14.73	214	0.049	-26.29	306	0.530	-5.51
32	0.836	-1.55	124	0.180	-14.89	216	0.042	-27.60	308	0.552	-5.16
34	0.816	-1.77	126	0.177	-15.04	218	0.036	-28.87	310	0.575	-4.81
36	0.795	-1.99	128	0.174	-15.17	220	0.032	-29.92	312	0.597	-4.48
38	0.774	-2.22	130	0.172	-15.29	222	0.030	-30.40	314	0.620	-4.15
40	0.753	-2.47	132	0.170	-15.39	224	0.031	-30.09	316	0.643	-3.84
42	0.731	-2.73	134	0.169	-15.46	226	0.035	-29.17	318	0.666	-3.53
44	0.709	-2.99	136	0.168	-15.52	228	0.040	-27.94	320	0.689	-3.24
46	0.687	-3.27	138	0.167	-15.56	230	0.047	-26.65	322	0.712	-2.95
48	0.664	-3.55	140	0.166	-15.58	232	0.054	-25.40	324	0.735	-2.68
50	0.642	-3.85	142	0.166	-15.59	234	0.061	-24.25	326	0.757	-2.42
52	0.620	-4.15	144	0.166	-15.58	236	0.069	-23.21	328	0.779	-2.17
54	0.599	-4.46	146	0.167	-15.57	238	0.077	-22.25	330	0.801	-1.93
56	0.577	-4.77	148	0.167	-15.54	240	0.085	-21.37	332	0.822	-1.71
58	0.556	-5.10	150	0.168	-15.50	242	0.094	-20.57	334	0.842	-1.49
60	0.536	-5.42	152	0.169	-15.46	244	0.102	-19.82	336	0.861	-1.30
62	0.515	-5.76	154	0.170	-15.42	246	0.111	-19.12	338	0.880	-1.11
64	0.496	-6.10	156	0.170	-15.37	248	0.119	-18.47	340	0.898	-0.94
66	0.477	-6.44	158	0.171	-15.33	250	0.128	-17.86	342	0.914	-0.78
68	0.458	-6.78	160	0.172	-15.30	252	0.137	-17.28	344	0.929	-0.64
70	0.440	-7.13	162	0.172	-15.28	254	0.146	-16.72	346	0.943	-0.51
72	0.423	-7.48	164	0.172	-15.27	256	0.155	-16.19	348	0.956	-0.39
74	0.406	-7.82	166	0.172	-15.28	258	0.165	-15.67	350	0.967	-0.29
76	0.390	-8.17	168	0.172	-15.30	260	0.174	-15.17	352	0.976	-0.21
78	0.375	-8.52	170	0.171	-15.35	262	0.184	-14.68	354	0.984	-0.14
80	0.360	-8.86	172	0.170	-15.41	264	0.195	-14.21	356	0.991	-0.08
82	0.346	-9.21	174	0.168	-15.50	266	0.206	-13.74	358	0.996	-0.04
84	0.333	-9.55	176	0.166	-15.61	268	0.217	-13.28			
86	0.320	-9.89	178	0.163	-15.75	270	0.228	-12.83			
88	0.308	-10.22	180	0.160	-15.92	272	0.240	-12.38			
90	0.297	-10.55	182	0.156	-16.12	274	0.253	-11.94			

## AZIMUTH PATTERN

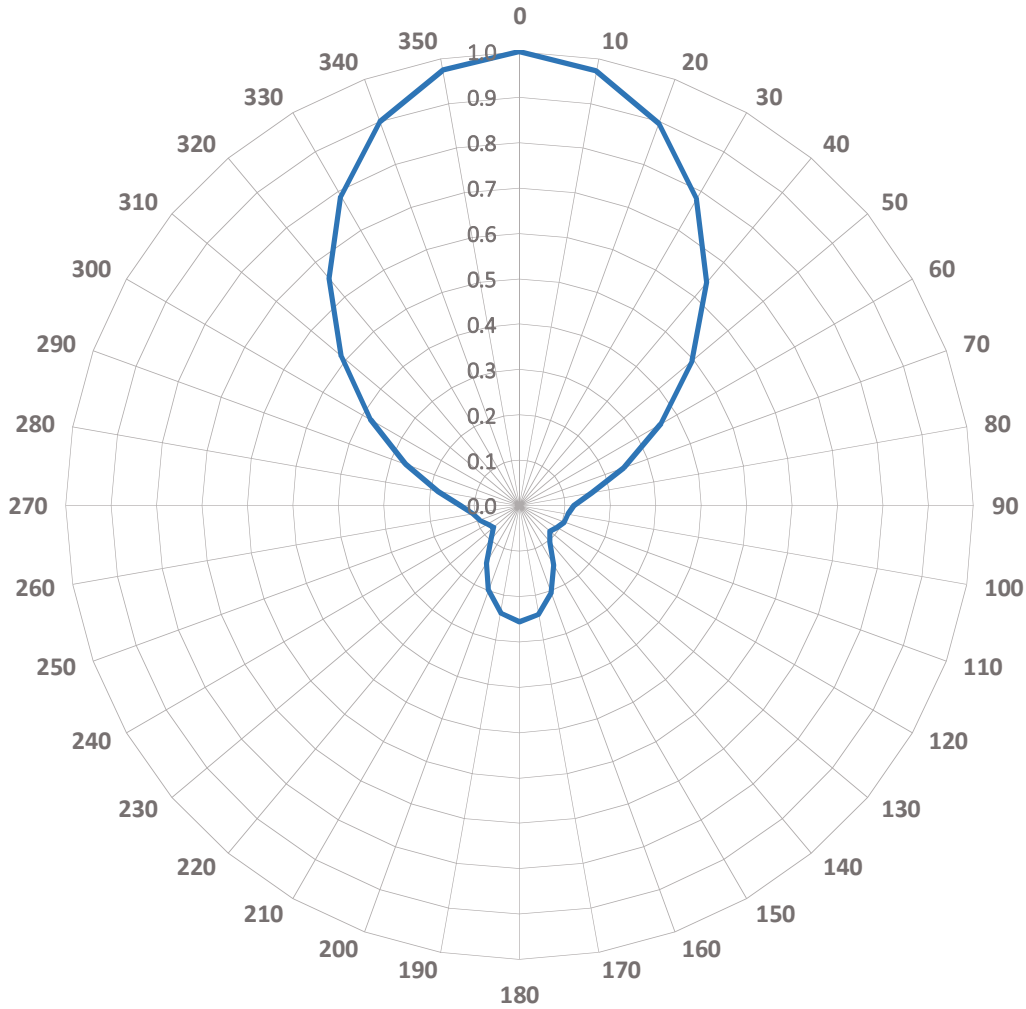
Facility ID : 760246

Azimuth Pattern: TUX-01/01

Azimuth Gain: 4.51 (6.54 dB)

Channel (Freq): 30 (566 - 572 MHz)

Polarization: Vertical



ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.000	90	0.119	-18.489	180	0.256	-11.835	270	0.130	-17.721
10	0.973	-0.238	100	0.108	-19.332	190	0.240	-12.396	280	0.182	-14.799
20	0.896	-0.954	110	0.105	-19.576	200	0.199	-14.023	290	0.267	-11.470
30	0.780	-2.158	120	0.095	-20.446	210	0.146	-16.713	300	0.380	-8.404
40	0.642	-3.849	130	0.087	-21.210	220	0.097	-20.265	310	0.512	-5.815
50	0.496	-6.090	140	0.105	-19.576	230	0.074	-22.615	320	0.653	-3.702
60	0.360	-8.874	150	0.152	-16.363	240	0.081	-21.830	330	0.787	-2.081
70	0.244	-12.252	160	0.204	-13.807	250	0.093	-20.630	340	0.900	-0.915
80	0.161	-15.863	170	0.243	-12.288	260	0.105	-19.576	350	0.974	-0.229

Additional Points:

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB

Date: 8-Nov-21

**SINCLAIR**  
BROADCAST GROUP

## AZIMUTH PATTERN TABULATED DATA

Facility ID : 760246

Azimuth Pattern: TUX-01/01

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	1.000	0.00	92	0.115	-18.79	184	0.253	-11.94	276	0.157	-16.08
2	0.999	-0.01	94	0.112	-19.02	186	0.250	-12.04	278	0.169	-15.44
4	0.995	-0.04	96	0.110	-19.17	188	0.246	-12.18	280	0.182	-14.80
6	0.990	-0.09	98	0.109	-19.25	190	0.240	-12.40	282	0.197	-14.11
8	0.982	-0.16	100	0.108	-19.33	192	0.234	-12.62	284	0.212	-13.47
10	0.973	-0.24	102	0.108	-19.33	194	0.226	-12.92	286	0.230	-12.77
12	0.961	-0.35	104	0.107	-19.41	196	0.218	-13.23	288	0.248	-12.11
14	0.947	-0.47	106	0.107	-19.41	198	0.209	-13.60	290	0.267	-11.47
16	0.932	-0.61	108	0.106	-19.49	200	0.199	-14.02	292	0.288	-10.81
18	0.915	-0.77	110	0.105	-19.58	202	0.189	-14.47	294	0.309	-10.20
20	0.896	-0.95	112	0.104	-19.66	204	0.178	-14.99	296	0.332	-9.58
22	0.875	-1.16	114	0.102	-19.83	206	0.168	-15.49	298	0.355	-9.00
24	0.853	-1.38	116	0.100	-20.00	208	0.157	-16.08	300	0.380	-8.40
26	0.830	-1.62	118	0.098	-20.18	210	0.146	-16.71	302	0.405	-7.85
28	0.806	-1.87	120	0.095	-20.45	212	0.135	-17.39	304	0.431	-7.31
30	0.780	-2.16	122	0.093	-20.63	214	0.124	-18.13	306	0.457	-6.80
32	0.754	-2.45	124	0.090	-20.92	216	0.114	-18.86	308	0.485	-6.29
34	0.727	-2.77	126	0.088	-21.11	218	0.105	-19.58	310	0.512	-5.81
36	0.699	-3.11	128	0.087	-21.21	220	0.097	-20.26	312	0.540	-5.35
38	0.670	-3.48	130	0.087	-21.21	222	0.089	-21.01	314	0.568	-4.91
40	0.642	-3.85	132	0.088	-21.11	224	0.083	-21.62	316	0.596	-4.50
42	0.613	-4.25	134	0.090	-20.92	226	0.079	-22.05	318	0.624	-4.10
44	0.583	-4.69	136	0.093	-20.63	228	0.076	-22.38	320	0.653	-3.70
46	0.554	-5.13	138	0.098	-20.18	230	0.074	-22.62	322	0.681	-3.34
48	0.525	-5.60	140	0.105	-19.58	232	0.074	-22.62	324	0.708	-3.00
50	0.496	-6.09	142	0.113	-18.94	234	0.074	-22.62	326	0.735	-2.67
52	0.468	-6.60	144	0.121	-18.34	236	0.076	-22.38	328	0.762	-2.36
54	0.440	-7.13	146	0.131	-17.65	238	0.078	-22.16	330	0.787	-2.08
56	0.412	-7.70	148	0.141	-17.02	240	0.081	-21.83	332	0.812	-1.81
58	0.386	-8.27	150	0.152	-16.36	242	0.083	-21.62	334	0.836	-1.56
60	0.360	-8.87	152	0.162	-15.81	244	0.086	-21.31	336	0.858	-1.33
62	0.335	-9.50	154	0.173	-15.24	246	0.088	-21.11	338	0.880	-1.11
64	0.310	-10.17	156	0.184	-14.70	248	0.091	-20.82	340	0.900	-0.92
66	0.287	-10.84	158	0.194	-14.24	250	0.093	-20.63	342	0.918	-0.74
68	0.265	-11.54	160	0.204	-13.81	252	0.095	-20.45	344	0.935	-0.58
70	0.244	-12.25	162	0.214	-13.39	254	0.097	-20.26	346	0.950	-0.45
72	0.225	-12.96	164	0.222	-13.07	256	0.100	-20.00	348	0.963	-0.33
74	0.207	-13.68	166	0.230	-12.77	258	0.102	-19.83	350	0.974	-0.23
76	0.190	-14.42	168	0.237	-12.51	260	0.105	-19.58	352	0.984	-0.14
78	0.175	-15.14	170	0.243	-12.29	262	0.108	-19.33	354	0.991	-0.08
80	0.161	-15.86	172	0.248	-12.11	264	0.112	-19.02	356	0.996	-0.03
82	0.149	-16.54	174	0.252	-11.97	266	0.117	-18.64	358	0.999	-0.01
84	0.139	-17.14	176	0.254	-11.90	268	0.123	-18.20	360	1.000	0.00
86	0.131	-17.65	178	0.256	-11.84	270	0.130	-17.72			
88	0.124	-18.13	180	0.256	-11.84	272	0.137	-17.27			
90	0.119	-18.49	182	0.255	-11.87	274	0.147	-16.65			

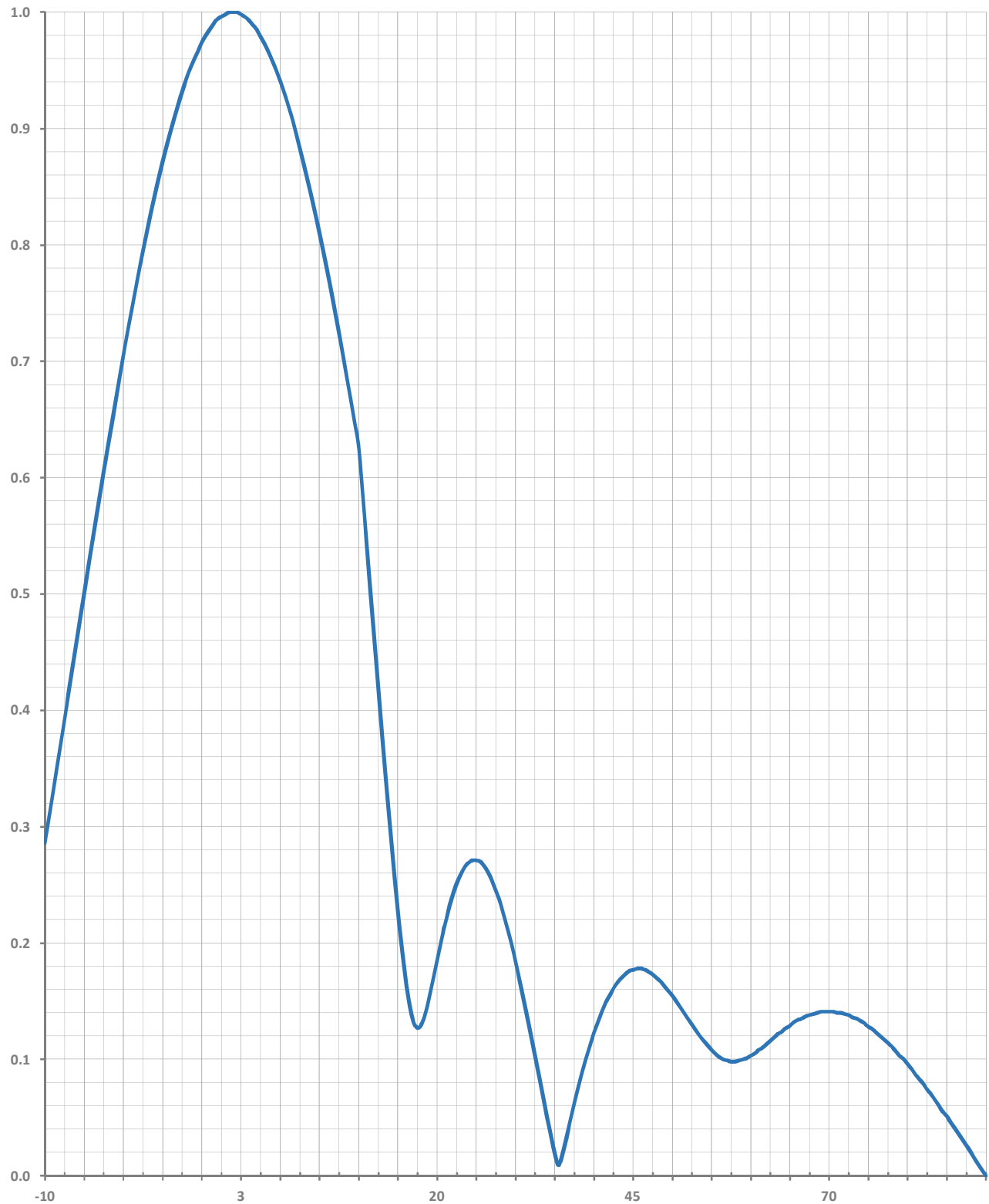
Date: 8-Nov-21

**SINCLAIR**  
BROADCAST GROUP

## ELEVATION PATTERN

Facility ID : 760246  
TYPE : 04U04200  
Directivity: Numeric dBd  
Main Lobe: 2.41 3.81  
Horizontal: 2.41 3.81

Frequency: 566 MHz (Digital)  
Location: Hunt Valley,MD  
Beam Tilt (°): 0.00  
Polarization: H/V



## ELEVATION PATTERN TABULATED DATA

Facility ID : 760246

TYPE: 04U04200

-10 to 10 degrees in 0.25 increments

10 to 90 degrees in 0.50 increments

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-10.00	0.29	-10.87	3.00	0.99	-0.06	22.00	0.24	-12.36	48.00	0.17	-15.39	74.00	0.13	-17.52
-9.75	0.31	-10.26	3.25	0.99	-0.10	22.50	0.25	-12.01	48.50	0.17	-15.55	74.50	0.13	-17.65
-9.50	0.33	-9.68	3.50	0.99	-0.13	23.00	0.26	-11.73	49.00	0.16	-15.76	75.00	0.13	-17.86
-9.25	0.35	-9.12	3.75	0.98	-0.18	23.50	0.27	-11.54	49.50	0.16	-15.97	75.50	0.13	-17.99
-9.00	0.37	-8.61	4.00	0.97	-0.24	24.00	0.27	-11.40	50.00	0.16	-16.19	76.00	0.12	-18.20
-8.75	0.39	-8.13	4.25	0.97	-0.30	24.50	0.27	-11.34	50.50	0.15	-16.48	76.50	0.12	-18.42
-8.50	0.41	-7.66	4.50	0.96	-0.37	25.00	0.27	-11.34	51.00	0.15	-16.77	77.00	0.12	-18.64
-8.25	0.44	-7.21	4.75	0.95	-0.45	25.50	0.27	-11.37	51.50	0.14	-17.08	77.50	0.11	-18.86
-8.00	0.46	-6.80	5.00	0.94	-0.53	26.00	0.27	-11.50	52.00	0.14	-17.39	78.00	0.11	-19.09
-7.75	0.48	-6.39	5.25	0.93	-0.62	26.50	0.26	-11.67	52.50	0.13	-17.72	78.50	0.11	-19.41
-7.50	0.50	-6.02	5.50	0.92	-0.72	27.00	0.25	-11.90	53.00	0.13	-18.06	79.00	0.10	-19.74
-7.25	0.52	-5.65	5.75	0.91	-0.83	27.50	0.25	-12.22	53.50	0.12	-18.42	79.50	0.10	-20.00
-7.00	0.54	-5.30	6.00	0.90	-0.95	28.00	0.24	-12.54	54.00	0.12	-18.71	80.00	0.10	-20.35
-6.75	0.56	-4.97	6.25	0.88	-1.08	28.50	0.22	-13.00	54.50	0.11	-19.02	80.50	0.09	-20.72
-6.50	0.59	-4.66	6.50	0.87	-1.21	29.00	0.21	-13.47	55.00	0.11	-19.33	81.00	0.09	-21.21
-6.25	0.61	-4.35	6.75	0.86	-1.35	29.50	0.20	-14.02	55.50	0.11	-19.58	81.50	0.08	-21.62
-6.00	0.63	-4.07	7.00	0.84	-1.50	30.00	0.18	-14.70	56.00	0.10	-19.83	82.00	0.08	-22.05
-5.75	0.65	-3.80	7.25	0.83	-1.66	30.50	0.17	-15.44	56.50	0.10	-20.00	82.50	0.07	-22.62
-5.50	0.67	-3.53	7.50	0.81	-1.83	31.00	0.15	-16.31	57.00	0.10	-20.09	83.00	0.07	-23.10
-5.25	0.69	-3.27	7.75	0.79	-2.00	31.50	0.14	-17.27	57.50	0.10	-20.18	83.50	0.07	-23.74
-5.00	0.71	-3.04	8.00	0.78	-2.19	32.00	0.12	-18.42	58.00	0.10	-20.18	84.00	0.06	-24.44
-4.75	0.72	-2.81	8.25	0.76	-2.38	32.50	0.10	-19.74	58.50	0.10	-20.09	84.50	0.06	-25.19
-4.50	0.74	-2.59	8.50	0.74	-2.59	33.00	0.09	-21.31	59.00	0.10	-20.00	85.00	0.05	-25.85
-4.25	0.76	-2.38	8.75	0.72	-2.81	33.50	0.07	-23.22	59.50	0.10	-19.91	85.50	0.05	-26.74
-4.00	0.78	-2.18	9.00	0.71	-3.04	34.00	0.05	-25.85	60.00	0.10	-19.74	86.00	0.04	-27.74
-3.75	0.80	-1.99	9.25	0.69	-3.27	34.50	0.04	-29.12	60.50	0.11	-19.58	86.50	0.04	-28.87
-3.50	0.81	-1.82	9.50	0.67	-3.52	35.00	0.02	-34.42	61.00	0.11	-19.33	87.00	0.03	-30.17
-3.25	0.83	-1.65	9.75	0.65	-3.78	35.50	0.01	-40.92	61.50	0.11	-19.17	87.50	0.03	-31.70
-3.00	0.84	-1.49	10.00	0.63	-4.05	36.00	0.02	-34.42	62.00	0.11	-18.94	88.00	0.02	-33.56
-2.75	0.86	-1.34	10.50	0.59	-4.63	36.50	0.03	-29.63	62.50	0.12	-18.71	88.50	0.02	-36.48
-2.50	0.87	-1.20	11.00	0.55	-5.26	37.00	0.05	-26.38	63.00	0.12	-18.49	89.00	0.01	-40.00
-2.25	0.89	-1.06	11.50	0.50	-5.95	37.50	0.06	-24.15	63.50	0.12	-18.27	89.50	0.01	-46.02
-2.00	0.90	-0.94	12.00	0.46	-6.71	38.00	0.08	-22.38	64.00	0.12	-18.13	90.00	0.00	---
-1.75	0.91	-0.83	12.50	0.42	-7.51	38.50	0.09	-21.01	64.50	0.13	-17.92			
-1.50	0.92	-0.71	13.00	0.38	-8.43	39.00	0.10	-19.91	65.00	0.13	-17.79			
-1.25	0.93	-0.61	13.50	0.34	-9.40	39.50	0.11	-19.02	65.50	0.13	-17.59			
-1.00	0.94	-0.52	14.00	0.30	-10.46	40.00	0.12	-18.20	66.00	0.13	-17.46			
-0.75	0.95	-0.44	14.50	0.26	-11.60	40.50	0.13	-17.59	66.50	0.14	-17.39			
-0.50	0.96	-0.36	15.00	0.23	-12.88	41.00	0.14	-17.02	67.00	0.14	-17.27			
-0.25	0.97	-0.30	15.50	0.20	-14.15	41.50	0.15	-16.54	67.50	0.14	-17.20			
0.00	0.97	-0.23	16.00	0.17	-15.49	42.00	0.16	-16.19	68.00	0.14	-17.14			
0.25	0.98	-0.18	16.50	0.15	-16.71	42.50	0.16	-15.86	68.50	0.14	-17.08			
0.50	0.99	-0.13	17.00	0.13	-17.59	43.00	0.17	-15.60	69.00	0.14	-17.02			
0.75	0.99	-0.09	17.50	0.13	-17.92	43.50	0.17	-15.39	69.50	0.14	-17.02			
1.00	0.99	-0.05	18.00	0.13	-17.72	44.00	0.17	-15.24	70.00	0.14	-17.02			
1.25	1.00	-0.03	18.50	0.14	-17.14	44.50	0.18	-15.09	70.50	0.14	-17.02			
1.50	1.00	-0.02	19.00	0.15	-16.31	45.00	0.18	-15.04	71.00	0.14	-17.08			
1.75	1.00	0.00	19.50	0.17	-15.44	45.50	0.18	-14.99	71.50	0.14	-17.08			
2.00	1.00	0.00	20.00	0.19	-14.66	46.00	0.18	-14.99	72.00	0.14	-17.14			
2.25	1.00	0.00	20.50	0.20	-13.94	46.50	0.18	-15.04	72.50	0.14	-17.20			
2.50	1.00	-0.02	21.00	0.22	-13.31	47.00	0.18	-15.14	73.00	0.14	-17.33			
2.75	1.00	-0.03	21.50	0.23	-12.80	47.50	0.17	-15.24	73.50	0.14	-17.39			