

***PRELIMINARY SPECIFICATION FOR
TRASAR[®] HORIZONTALLY POLARIZED
COAXIAL SLOTTED ARRAY ANTENNA***

*Prepared for
WHRE-DT Channel 7 Virginia Beach, VA
February 13, 2008*

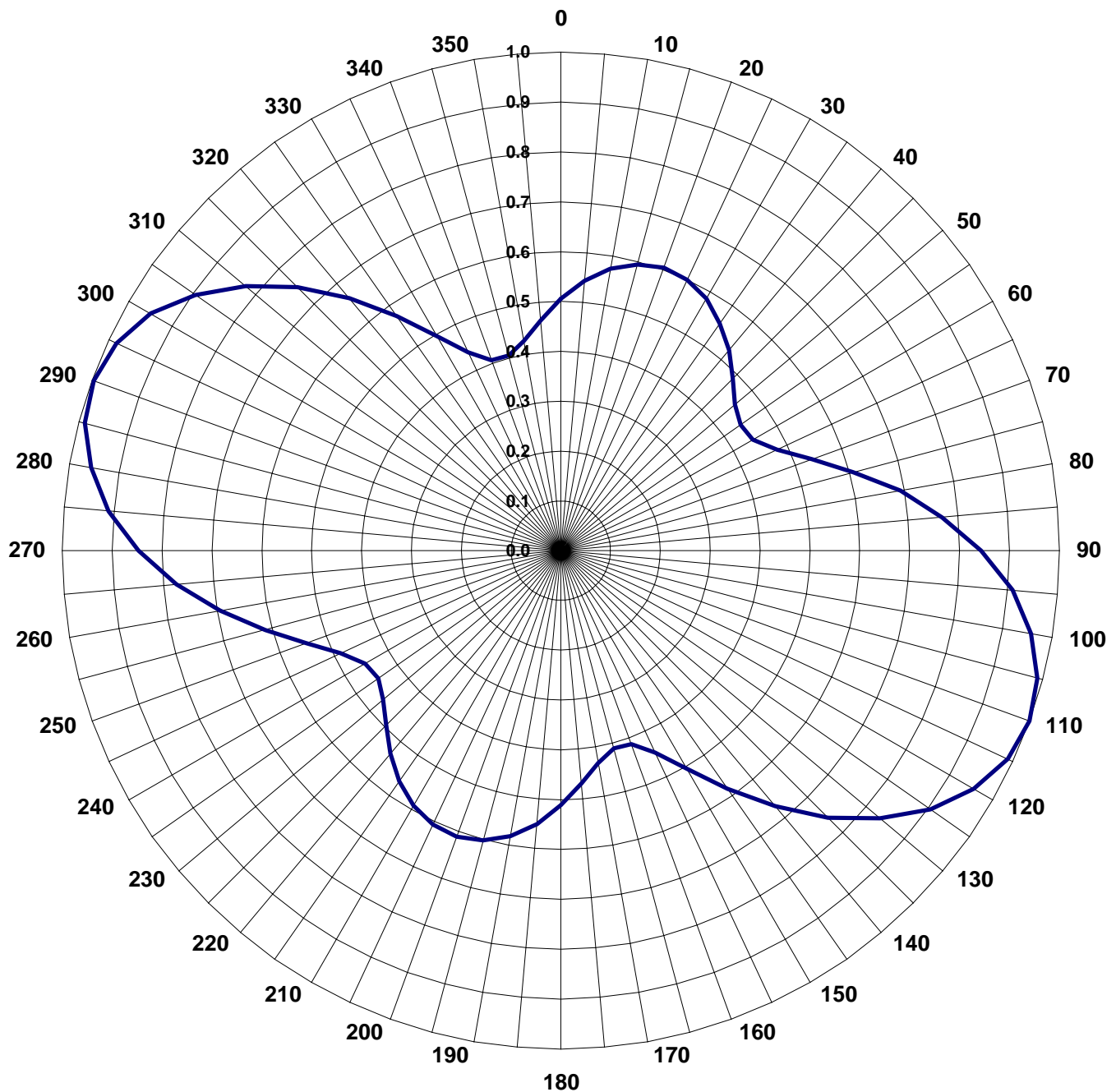
**ANTENNA TYPE:
ATW6V4-HSPX-7**

**SPECIFICATION NO :
KO110207-1776**



AZIMUTH PATTERN**TYPE:****CH7HAZ-PX****Frequency:****7 (DTV)****Numeric****dB****Location:****Virginia Beach, VA****Directivity:****2.23****3.49****Polarization:****Horizontal****Peak(s) at:**

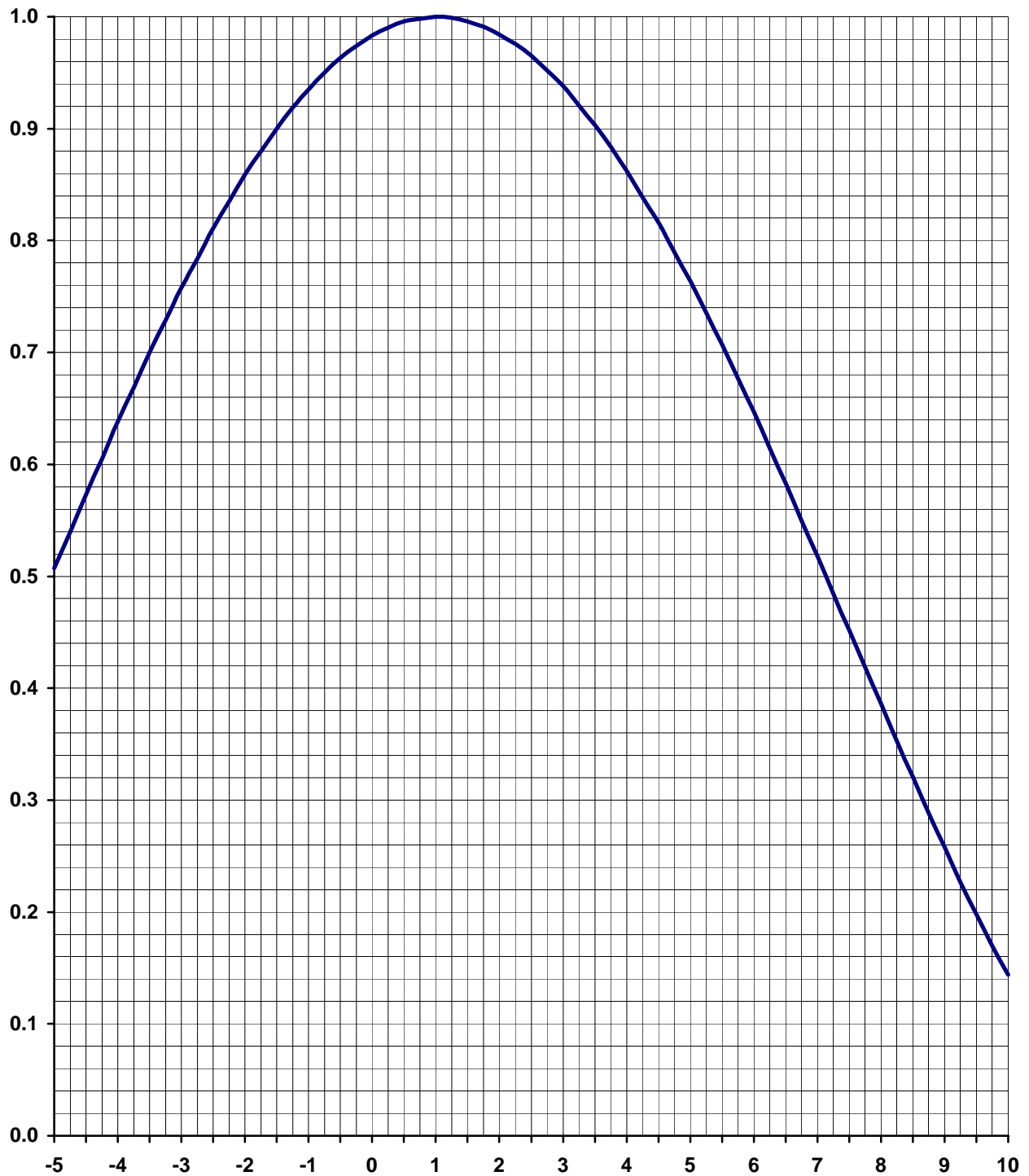
Note: Pattern shape and directivity may vary with
channel and mounting configuration.



TABULATED DATA FOR AZIMUTH PATTERN

TYPE: CH7HAZ-PX

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.505	-5.93	92	0.871	-1.20	184	0.544	-5.29	276	0.920	-0.72
2	0.520	-5.68	94	0.897	-0.94	186	0.557	-5.08	278	0.941	-0.53
4	0.536	-5.42	96	0.920	-0.72	188	0.570	-4.88	280	0.957	-0.38
6	0.551	-5.18	98	0.941	-0.53	190	0.581	-4.72	282	0.973	-0.24
8	0.563	-4.99	100	0.958	-0.37	192	0.591	-4.57	284	0.984	-0.14
10	0.574	-4.82	102	0.973	-0.24	194	0.598	-4.47	286	0.992	-0.07
12	0.584	-4.67	104	0.985	-0.13	196	0.604	-4.38	288	0.996	-0.03
14	0.591	-4.57	106	0.993	-0.06	198	0.609	-4.31	290	0.997	-0.03
16	0.597	-4.48	108	0.999	-0.01	200	0.611	-4.28	292	0.994	-0.05
18	0.602	-4.41	110	1.000	0.00	202	0.611	-4.28	294	0.987	-0.11
20	0.604	-4.38	112	0.998	-0.02	204	0.609	-4.31	296	0.979	-0.18
22	0.604	-4.38	114	0.992	-0.07	206	0.604	-4.38	298	0.967	-0.29
24	0.601	-4.42	116	0.984	-0.14	208	0.599	-4.45	300	0.950	-0.45
26	0.597	-4.48	118	0.972	-0.25	210	0.591	-4.57	302	0.929	-0.64
28	0.591	-4.57	120	0.956	-0.39	212	0.582	-4.70	304	0.907	-0.85
30	0.583	-4.69	122	0.938	-0.56	214	0.570	-4.88	306	0.881	-1.10
32	0.575	-4.81	124	0.915	-0.77	216	0.559	-5.05	308	0.854	-1.37
34	0.564	-4.97	126	0.893	-0.98	218	0.545	-5.27	310	0.825	-1.67
36	0.552	-5.16	128	0.865	-1.26	220	0.532	-5.48	312	0.795	-1.99
38	0.538	-5.38	130	0.835	-1.57	222	0.518	-5.71	314	0.762	-2.36
40	0.525	-5.60	132	0.805	-1.88	224	0.502	-5.99	316	0.730	-2.73
42	0.511	-5.83	134	0.772	-2.25	226	0.488	-6.23	318	0.693	-3.19
44	0.496	-6.09	136	0.738	-2.64	228	0.476	-6.45	320	0.660	-3.61
46	0.481	-6.36	138	0.704	-3.05	230	0.465	-6.65	322	0.626	-4.07
48	0.468	-6.60	140	0.670	-3.48	232	0.456	-6.82	324	0.592	-4.55
50	0.456	-6.82	142	0.636	-3.93	234	0.450	-6.94	326	0.557	-5.08
52	0.446	-7.01	144	0.600	-4.44	236	0.447	-6.99	328	0.527	-5.56
54	0.441	-7.11	146	0.567	-4.93	238	0.448	-6.97	330	0.497	-6.07
56	0.438	-7.17	148	0.536	-5.42	240	0.454	-6.86	332	0.471	-6.54
58	0.440	-7.13	150	0.505	-5.93	242	0.464	-6.67	334	0.448	-6.97
60	0.445	-7.03	152	0.480	-6.38	244	0.479	-6.39	336	0.430	-7.33
62	0.455	-6.84	154	0.456	-6.82	246	0.496	-6.09	338	0.416	-7.62
64	0.470	-6.56	156	0.438	-7.17	248	0.517	-5.73	340	0.406	-7.83
66	0.489	-6.21	158	0.423	-7.47	250	0.543	-5.30	342	0.402	-7.92
68	0.512	-5.81	160	0.414	-7.66	252	0.568	-4.91	344	0.403	-7.89
70	0.536	-5.42	162	0.409	-7.77	254	0.600	-4.44	346	0.407	-7.81
72	0.566	-4.94	164	0.409	-7.77	256	0.632	-3.99	348	0.415	-7.64
74	0.594	-4.52	166	0.412	-7.70	258	0.663	-3.57	350	0.427	-7.39
76	0.626	-4.07	168	0.421	-7.51	260	0.694	-3.17	352	0.441	-7.11
78	0.657	-3.65	170	0.433	-7.27	262	0.730	-2.73	354	0.457	-6.80
80	0.692	-3.20	172	0.447	-6.99	264	0.758	-2.41	356	0.472	-6.52
82	0.725	-2.79	174	0.461	-6.73	266	0.789	-2.06	358	0.489	-6.21
84	0.755	-2.44	176	0.478	-6.41	268	0.820	-1.72	360	0.505	-5.93
86	0.784	-2.11	178	0.495	-6.11	270	0.847	-1.44			
88	0.816	-1.77	180	0.511	-5.83	272	0.873	-1.18			
90	0.843	-1.48	182	0.529	-5.53	274	0.898	-0.93			

ELEVATION PATTERN**TYPE:****ATW6V4H****Frequency:****7 (DTV)****Directivity:****Numeric****dBd****Location:****Virginia Beach, VA****Main Lobe:****6.00****7.78****Beam Tilt:****1.00****Horizontal:****5.80****7.63****Polarization:****Horizontal**

TABULATED DATA FOR ELEVATION PATTERN

ATW6V4H

-5 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
-5.000	0.507	-5.90	6.75	0.550	-5.19	27.00	0.134	-17.46	50.50	0.121	-18.34	74.00	0.132	-17.59
-4.750	0.540	-5.35	7.00	0.518	-5.71	27.50	0.130	-17.72	51.00	0.127	-17.92	74.50	0.132	-17.59
-4.500	0.573	-4.84	7.25	0.485	-6.29	28.00	0.123	-18.20	51.50	0.131	-17.65	75.00	0.132	-17.59
-4.250	0.605	-4.36	7.50	0.452	-6.90	28.50	0.113	-18.94	52.00	0.134	-17.46	75.50	0.131	-17.65
-4.000	0.638	-3.90	7.75	0.419	-7.56	29.00	0.102	-19.83	52.50	0.136	-17.33	76.00	0.130	-17.72
-3.750	0.669	-3.49	8.00	0.386	-8.27	29.50	0.089	-21.01	53.00	0.137	-17.27	76.50	0.128	-17.86
-3.500	0.700	-3.10	8.25	0.353	-9.04	30.00	0.074	-22.62	53.50	0.137	-17.27	77.00	0.126	-17.99
-3.250	0.729	-2.75	8.50	0.321	-9.87	30.50	0.059	-24.58	54.00	0.136	-17.33	77.50	0.124	-18.13
-3.000	0.758	-2.41	8.75	0.289	-10.78	31.00	0.042	-27.54	54.50	0.134	-17.46	78.00	0.121	-18.34
-2.750	0.784	-2.11	9.00	0.258	-11.77	31.50	0.025	-32.04	55.00	0.130	-17.72	78.50	0.119	-18.49
-2.500	0.811	-1.82	9.25	0.227	-12.88	32.00	0.009	-40.92	55.50	0.126	-17.99	79.00	0.115	-18.79
-2.250	0.835	-1.57	9.50	0.198	-14.07	32.50	0.011	-39.17	56.00	0.121	-18.34	79.50	0.112	-19.02
-2.000	0.859	-1.32	9.75	0.170	-15.39	33.00	0.027	-31.37	56.50	0.116	-18.71	80.00	0.108	-19.33
-1.750	0.880	-1.11	10.00	0.144	-16.83	33.50	0.044	-27.13	57.00	0.109	-19.25	80.50	0.105	-19.58
-1.500	0.900	-0.92	10.50	0.099	-20.09	34.00	0.059	-24.58	57.50	0.102	-19.83	81.00	0.101	-19.91
-1.250	0.919	-0.73	11.00	0.074	-22.62	34.50	0.073	-22.73	58.00	0.095	-20.45	81.50	0.096	-20.35
-1.000	0.935	-0.58	11.50	0.078	-22.16	35.00	0.086	-21.31	58.50	0.087	-21.21	82.00	0.092	-20.72
-0.750	0.950	-0.45	12.00	0.103	-19.74	35.50	0.097	-20.26	59.00	0.080	-21.94	82.50	0.087	-21.21
-0.500	0.963	-0.33	12.50	0.132	-17.59	36.00	0.107	-19.41	59.50	0.072	-22.85	83.00	0.083	-21.62
-0.250	0.974	-0.23	13.00	0.159	-15.97	36.50	0.115	-18.79	60.00	0.064	-23.88	83.50	0.078	-22.16
0.000	0.983	-0.15	13.50	0.182	-14.80	37.00	0.121	-18.34	60.50	0.057	-24.88	84.00	0.073	-22.73
0.250	0.990	-0.09	14.00	0.200	-13.98	37.50	0.125	-18.06	61.00	0.050	-26.02	84.50	0.067	-23.48
0.500	0.996	-0.03	14.50	0.213	-13.43	38.00	0.127	-17.92	61.50	0.045	-26.94	85.00	0.062	-24.15
0.750	0.998	-0.02	15.00	0.221	-13.11	38.50	0.128	-17.86	62.00	0.041	-27.74	85.50	0.057	-24.88
1.000	1.000	0.00	15.50	0.223	-13.03	39.00	0.126	-17.99	62.50	0.040	-27.96	86.00	0.051	-25.85
1.250	0.999	-0.01	16.00	0.221	-13.11	39.50	0.123	-18.20	63.00	0.041	-27.74	86.50	0.046	-26.74
1.500	0.996	-0.03	16.50	0.214	-13.39	40.00	0.118	-18.56	63.50	0.044	-27.13	87.00	0.040	-27.96
1.750	0.991	-0.08	17.00	0.203	-13.85	40.50	0.111	-19.09	64.00	0.049	-26.20	87.50	0.035	-29.12
2.000	0.984	-0.14	17.50	0.188	-14.52	41.00	0.103	-19.74	64.50	0.055	-25.19	88.00	0.029	-30.75
2.250	0.976	-0.21	18.00	0.170	-15.39	41.50	0.094	-20.54	65.00	0.061	-24.29	88.50	0.023	-32.77
2.500	0.965	-0.31	18.50	0.150	-16.48	42.00	0.083	-21.62	65.50	0.067	-23.48	89.00	0.017	-35.39
2.750	0.952	-0.43	19.00	0.128	-17.86	42.50	0.072	-22.85	66.00	0.074	-22.62	89.50	0.012	-38.42
3.000	0.938	-0.56	19.50	0.104	-19.66	43.00	0.060	-24.44	66.50	0.081	-21.83	90.00	0.006	-44.44
3.250	0.921	-0.71	20.00	0.080	-21.94	43.50	0.047	-26.56	67.00	0.087	-21.21			
3.500	0.903	-0.89	20.50	0.057	-24.88	44.00	0.035	-29.12	67.50	0.093	-20.63			
3.750	0.884	-1.07	21.00	0.037	-28.64	44.50	0.023	-32.77	68.00	0.098	-20.18			
4.000	0.862	-1.29	21.50	0.027	-31.37	45.00	0.016	-35.92	68.50	0.104	-19.66			
4.250	0.839	-1.52	22.00	0.036	-28.87	45.50	0.019	-34.42	69.00	0.109	-19.25			
4.500	0.816	-1.77	22.50	0.053	-25.51	46.00	0.029	-30.75	69.50	0.113	-18.94			
4.750	0.790	-2.05	23.00	0.071	-22.97	46.50	0.042	-27.54	70.00	0.117	-18.64			
5.000	0.764	-2.34	23.50	0.088	-21.11	47.00	0.054	-25.35	70.50	0.121	-18.34			
5.250	0.736	-2.66	24.00	0.103	-19.74	47.50	0.066	-23.61	71.00	0.124	-18.13			
5.500	0.707	-3.01	24.50	0.115	-18.79	48.00	0.077	-22.27	71.50	0.126	-17.99			
5.750	0.677	-3.39	25.00	0.125	-18.06	48.50	0.088	-21.11	72.00	0.128	-17.86			
6.000	0.647	-3.78	25.50	0.131	-17.65	49.00	0.098	-20.18	72.50	0.130	-17.72			
6.250	0.615	-4.22	26.00	0.135	-17.39	49.50	0.107	-19.41	73.00	0.131	-17.65			
6.500	0.583	-4.69	26.50	0.136	-17.33	50.00	0.114	-18.86	73.50	0.132	-17.59			