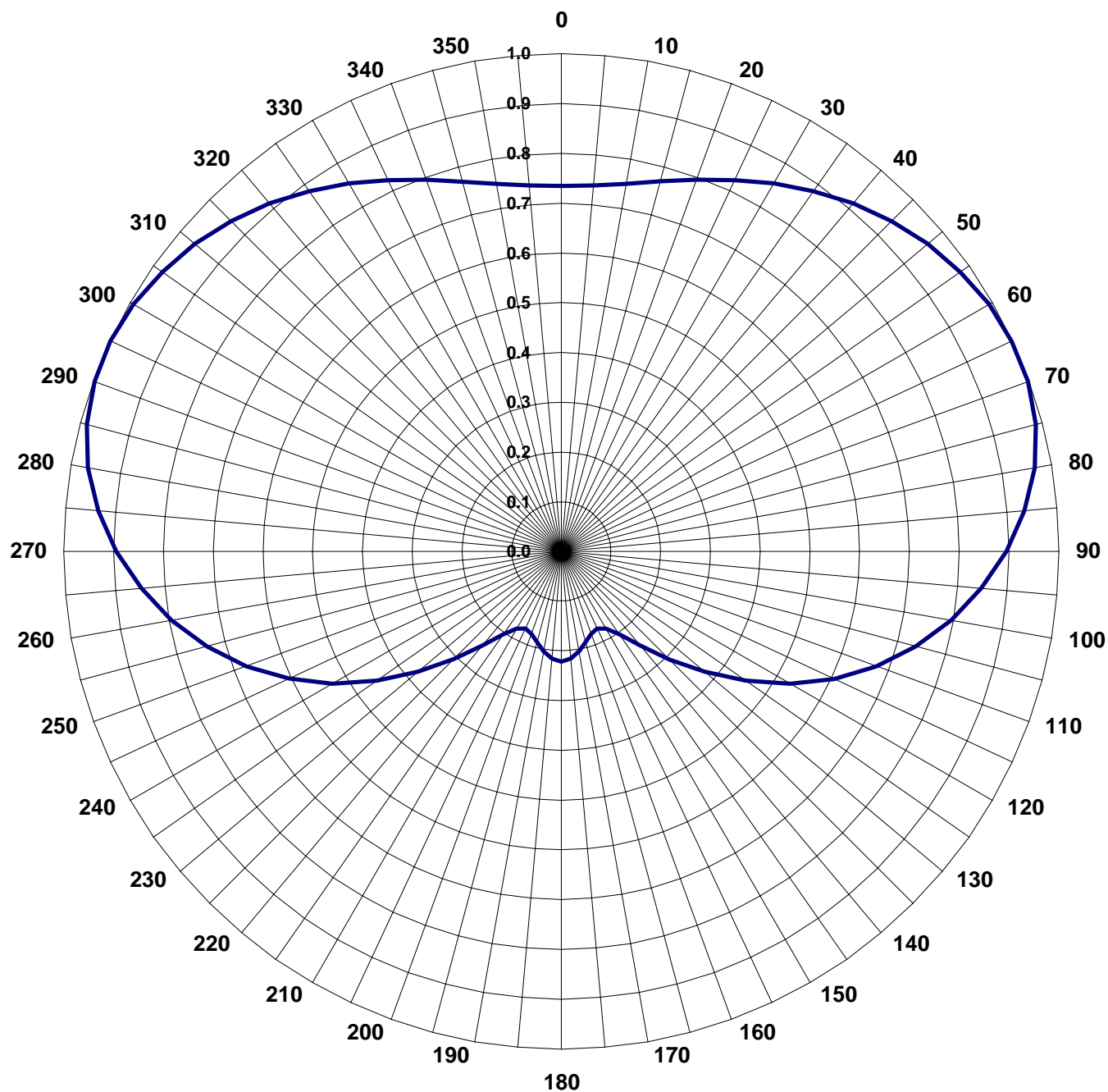


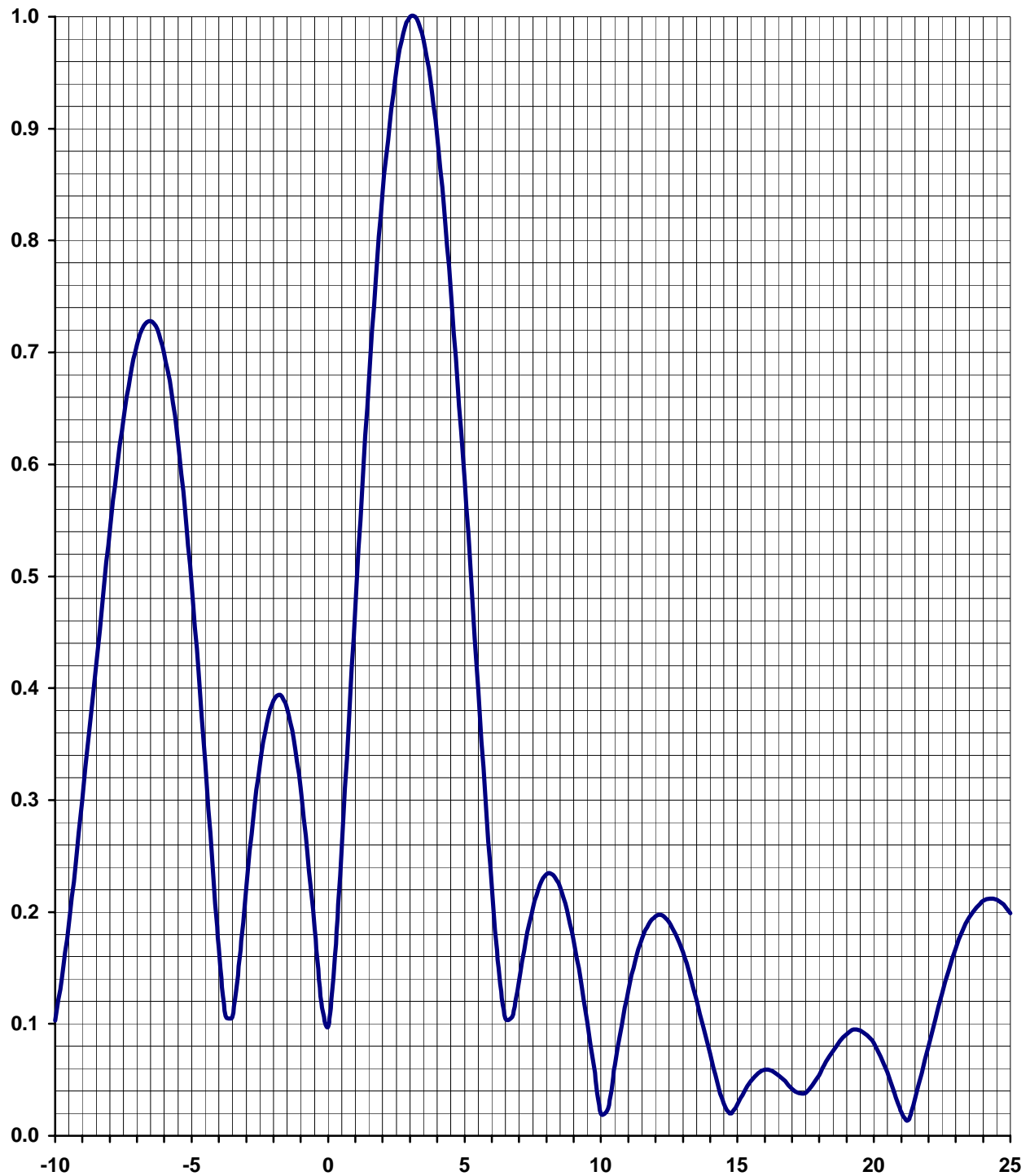
AZIMUTH PATTERN**TYPE:****ALP-PR****Frequency:****43 (DTV)****Numeric****dB****Location:****Puerto Rico****Directivity:****1.92****2.83****Polarization:****Horizontal****Peak(s) at:**

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



TABULATED DATA FOR AZIMUTH PATTERN**TYPE: ALP-PR**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.734	-2.69	92	0.876	-1.15	184	0.218	-13.23	276	0.941	-0.53
2	0.735	-2.67	94	0.857	-1.34	186	0.214	-13.39	278	0.954	-0.41
4	0.737	-2.65	96	0.837	-1.55	188	0.210	-13.56	280	0.966	-0.30
6	0.740	-2.62	98	0.816	-1.77	190	0.204	-13.81	282	0.975	-0.22
8	0.745	-2.56	100	0.795	-1.99	192	0.199	-14.02	284	0.984	-0.14
10	0.750	-2.50	102	0.772	-2.25	194	0.192	-14.33	286	0.990	-0.09
12	0.757	-2.42	104	0.749	-2.51	196	0.186	-14.61	288	0.995	-0.04
14	0.765	-2.33	106	0.725	-2.79	198	0.181	-14.85	290	0.998	-0.02
16	0.774	-2.23	108	0.700	-3.10	200	0.176	-15.09	292	1.000	0.00
18	0.784	-2.11	110	0.674	-3.43	202	0.172	-15.29	294	1.000	0.00
20	0.794	-2.00	112	0.647	-3.78	204	0.171	-15.34	296	0.999	-0.01
22	0.805	-1.88	114	0.619	-4.17	206	0.171	-15.34	298	0.996	-0.03
24	0.817	-1.76	116	0.590	-4.58	208	0.173	-15.24	300	0.993	-0.06
26	0.829	-1.63	118	0.561	-5.02	210	0.179	-14.94	302	0.988	-0.10
28	0.841	-1.50	120	0.531	-5.50	212	0.187	-14.56	304	0.982	-0.16
30	0.853	-1.38	122	0.500	-6.02	214	0.197	-14.11	306	0.976	-0.21
32	0.865	-1.26	124	0.469	-6.58	216	0.211	-13.51	308	0.969	-0.27
34	0.877	-1.14	126	0.438	-7.17	218	0.228	-12.84	310	0.961	-0.35
36	0.889	-1.02	128	0.407	-7.81	220	0.247	-12.15	312	0.952	-0.43
38	0.901	-0.91	130	0.377	-8.47	222	0.269	-11.40	314	0.943	-0.51
40	0.912	-0.80	132	0.347	-9.19	224	0.293	-10.66	316	0.933	-0.60
42	0.923	-0.70	134	0.320	-9.90	226	0.320	-9.90	318	0.923	-0.70
44	0.933	-0.60	136	0.293	-10.66	228	0.347	-9.19	320	0.912	-0.80
46	0.943	-0.51	138	0.269	-11.40	230	0.377	-8.47	322	0.901	-0.91
48	0.952	-0.43	140	0.247	-12.15	232	0.407	-7.81	324	0.889	-1.02
50	0.961	-0.35	142	0.228	-12.84	234	0.438	-7.17	326	0.877	-1.14
52	0.969	-0.27	144	0.211	-13.51	236	0.469	-6.58	328	0.865	-1.26
54	0.976	-0.21	146	0.197	-14.11	238	0.500	-6.02	330	0.853	-1.38
56	0.982	-0.16	148	0.187	-14.56	240	0.531	-5.50	332	0.841	-1.50
58	0.988	-0.10	150	0.179	-14.94	242	0.561	-5.02	334	0.829	-1.63
60	0.993	-0.06	152	0.173	-15.24	244	0.590	-4.58	336	0.817	-1.76
62	0.996	-0.03	154	0.171	-15.34	246	0.619	-4.17	338	0.805	-1.88
64	0.999	-0.01	156	0.171	-15.34	248	0.647	-3.78	340	0.794	-2.00
66	1.000	0.00	158	0.172	-15.29	250	0.674	-3.43	342	0.784	-2.11
68	1.000	0.00	160	0.176	-15.09	252	0.700	-3.10	344	0.774	-2.23
70	0.998	-0.02	162	0.181	-14.85	254	0.725	-2.79	346	0.765	-2.33
72	0.995	-0.04	164	0.186	-14.61	256	0.749	-2.51	348	0.757	-2.42
74	0.990	-0.09	166	0.192	-14.33	258	0.772	-2.25	350	0.750	-2.50
76	0.984	-0.14	168	0.199	-14.02	260	0.795	-1.99	352	0.745	-2.56
78	0.975	-0.22	170	0.204	-13.81	262	0.816	-1.77	354	0.740	-2.62
80	0.966	-0.30	172	0.210	-13.56	264	0.837	-1.55	356	0.737	-2.65
82	0.954	-0.41	174	0.214	-13.39	266	0.857	-1.34	358	0.735	-2.67
84	0.941	-0.53	176	0.218	-13.23	268	0.876	-1.15	360	0.260	-11.70
86	0.927	-0.66	178	0.220	-13.15	270	0.894	-0.97			
88	0.911	-0.81	180	0.221	-13.11	272	0.911	-0.81			
90	0.894	-0.97	182	0.220	-13.15	274	0.927	-0.66			

ELEVATION PATTERN**TYPE:****ALP12L12****Frequency:****43 (DTV)****Directivity:****Numeric****dBd****Location:****Puerto Rico****Main Lobe:****12.64****11.02****Beam Tilt:****3.00****Horizontal:****3.06****4.86****Polarization:****Horizontal**

TABULATED DATA FOR ELEVATION PATTERN

ALP12L12			-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
-10.000	0.103	-19.74	2.00	0.841	-1.50	18.00	0.054	-25.35	42.00	0.055	-25.19	66.00	0.144	-16.83
-9.750	0.141	-17.02	2.25	0.904	-0.88	18.50	0.076	-22.38	42.50	0.062	-24.15	66.50	0.165	-15.65
-9.500	0.188	-14.52	2.50	0.953	-0.42	19.00	0.091	-20.82	43.00	0.063	-24.01	67.00	0.185	-14.66
-9.250	0.241	-12.36	2.75	0.985	-0.13	19.50	0.094	-20.54	43.50	0.059	-24.58	67.50	0.203	-13.85
-9.000	0.300	-10.46	3.00	1.000	0.00	20.00	0.083	-21.62	44.00	0.050	-26.02	68.00	0.218	-13.23
-8.750	0.360	-8.87	3.25	0.998	-0.02	20.50	0.057	-24.88	44.50	0.039	-28.18	68.50	0.231	-12.73
-8.500	0.422	-7.49	3.50	0.979	-0.18	21.00	0.021	-33.56	45.00	0.026	-31.70	69.00	0.241	-12.36
-8.250	0.483	-6.32	3.75	0.944	-0.50	21.50	0.033	-29.63	45.50	0.014	-37.08	69.50	0.249	-12.08
-8.000	0.541	-5.34	4.00	0.894	-0.97	22.00	0.080	-21.94	46.00	0.007	-43.10	70.00	0.254	-11.90
-7.750	0.594	-4.52	4.25	0.831	-1.61	22.50	0.127	-17.92	46.50	0.010	-40.00	70.50	0.256	-11.84
-7.500	0.640	-3.88	4.50	0.757	-2.42	23.00	0.167	-15.55	47.00	0.016	-35.92	71.00	0.256	-11.84
-7.250	0.678	-3.38	4.75	0.674	-3.43	23.50	0.195	-14.20	47.50	0.019	-34.42	71.50	0.254	-11.90
-7.000	0.707	-3.01	5.00	0.585	-4.66	24.00	0.210	-13.56	48.00	0.021	-33.56	72.00	0.250	-12.04
-6.750	0.724	-2.81	5.25	0.492	-6.16	24.50	0.211	-13.51	48.50	0.026	-31.70	72.50	0.244	-12.25
-6.500	0.728	-2.76	5.50	0.398	-8.00	25.00	0.199	-14.02	49.00	0.034	-29.37	73.00	0.236	-12.54
-6.250	0.721	-2.84	5.75	0.307	-10.26	25.50	0.178	-14.99	49.50	0.045	-26.94	73.50	0.228	-12.84
-6.000	0.699	-3.11	6.00	0.222	-13.07	26.00	0.149	-16.54	50.00	0.058	-24.73	74.00	0.218	-13.23
-5.750	0.665	-3.54	6.25	0.150	-16.48	26.50	0.119	-18.49	50.50	0.071	-22.97	74.50	0.207	-13.68
-5.500	0.619	-4.17	6.50	0.105	-19.58	27.00	0.090	-20.92	51.00	0.084	-21.51	75.00	0.196	-14.15
-5.250	0.561	-5.02	6.75	0.106	-19.49	27.50	0.066	-23.61	51.50	0.094	-20.54	75.50	0.185	-14.66
-5.000	0.492	-6.16	7.00	0.138	-17.20	28.00	0.047	-26.56	52.00	0.100	-20.00	76.00	0.173	-15.24
-4.750	0.416	-7.62	7.25	0.174	-15.19	28.50	0.034	-29.37	52.50	0.103	-19.74	76.50	0.161	-15.86
-4.500	0.334	-9.53	7.50	0.204	-13.81	29.00	0.024	-32.40	53.00	0.101	-19.91	77.00	0.149	-16.54
-4.250	0.249	-12.08	7.75	0.224	-13.00	29.50	0.015	-36.48	53.50	0.095	-20.45	77.50	0.138	-17.20
-4.000	0.168	-15.49	8.00	0.234	-12.62	30.00	0.014	-37.08	54.00	0.084	-21.51	78.00	0.127	-17.92
-3.750	0.107	-19.41	8.25	0.233	-12.65	30.50	0.023	-32.77	54.50	0.070	-23.10	78.50	0.116	-18.71
-3.500	0.106	-19.49	8.50	0.222	-13.07	31.00	0.034	-29.37	55.00	0.053	-25.51	79.00	0.105	-19.58
-3.250	0.159	-15.97	8.75	0.202	-13.89	31.50	0.041	-27.74	55.50	0.033	-29.63	79.50	0.095	-20.45
-3.000	0.223	-13.03	9.00	0.174	-15.19	32.00	0.043	-27.33	56.00	0.015	-36.48	80.00	0.086	-21.31
-2.750	0.283	-10.96	9.25	0.141	-17.02	32.50	0.042	-27.54	56.50	0.016	-35.92	80.50	0.077	-22.27
-2.500	0.332	-9.58	9.50	0.102	-19.83	33.00	0.040	-27.96	57.00	0.034	-29.37	81.00	0.069	-23.22
-2.250	0.368	-8.68	9.75	0.062	-24.15	33.50	0.045	-26.94	57.50	0.053	-25.51	81.50	0.062	-24.15
-2.000	0.389	-8.20	10.00	0.020	-33.98	34.00	0.062	-24.15	58.00	0.069	-23.22	82.00	0.055	-25.19
-1.750	0.394	-8.09	10.50	0.063	-24.01	34.50	0.085	-21.41	58.50	0.083	-21.62	82.50	0.049	-26.20
-1.500	0.382	-8.36	11.00	0.130	-17.72	35.00	0.111	-19.09	59.00	0.092	-20.72	83.00	0.043	-27.33
-1.250	0.354	-9.02	11.50	0.176	-15.09	35.50	0.134	-17.46	59.50	0.098	-20.18	83.50	0.037	-28.64
-1.000	0.311	-10.14	12.00	0.196	-14.15	36.00	0.153	-16.31	60.00	0.099	-20.09	84.00	0.033	-29.63
-0.750	0.253	-11.94	12.50	0.191	-14.38	36.50	0.165	-15.65	60.50	0.096	-20.35	84.50	0.028	-31.06
-0.500	0.185	-14.66	13.00	0.164	-15.70	37.00	0.168	-15.49	61.00	0.088	-21.11	85.00	0.024	-32.40
-0.250	0.119	-18.49	13.50	0.121	-18.34	37.50	0.163	-15.76	61.50	0.078	-22.16	85.50	0.024	-32.40
0.000	0.098	-20.18	14.00	0.073	-22.73	38.00	0.149	-16.54	62.00	0.064	-23.88	86.00	0.024	-32.40
0.250	0.161	-15.86	14.50	0.029	-30.75	38.50	0.129	-17.79	62.50	0.050	-26.02	86.50	0.024	-32.40
0.500	0.258	-11.77	15.00	0.028	-31.06	39.00	0.103	-19.74	63.00	0.040	-27.96	87.00	0.024	-32.40
0.750	0.364	-8.78	15.50	0.049	-26.20	39.50	0.074	-22.62	63.50	0.040	-27.96	87.50	0.024	-32.40
1.000	0.472	-6.52	16.00	0.059	-24.58	40.00	0.046	-26.74	64.00	0.054	-25.35	88.00	0.024	-32.40
1.250	0.576	-4.79	16.50	0.054	-25.35	40.50	0.026	-31.70	64.50	0.075	-22.50	88.50	0.024	-32.40
1.500	0.674	-3.43	17.00	0.042	-27.54	41.00	0.028	-31.06	65.00	0.097	-20.26	89.00	0.024	-32.40
1.75	0.763	-2.35	17.50	0.038	-28.40	41.50	0.042	-27.54	65.50	0.121	-18.34	89.50	0.024	-32.40
												90.00	0.024	-32.40