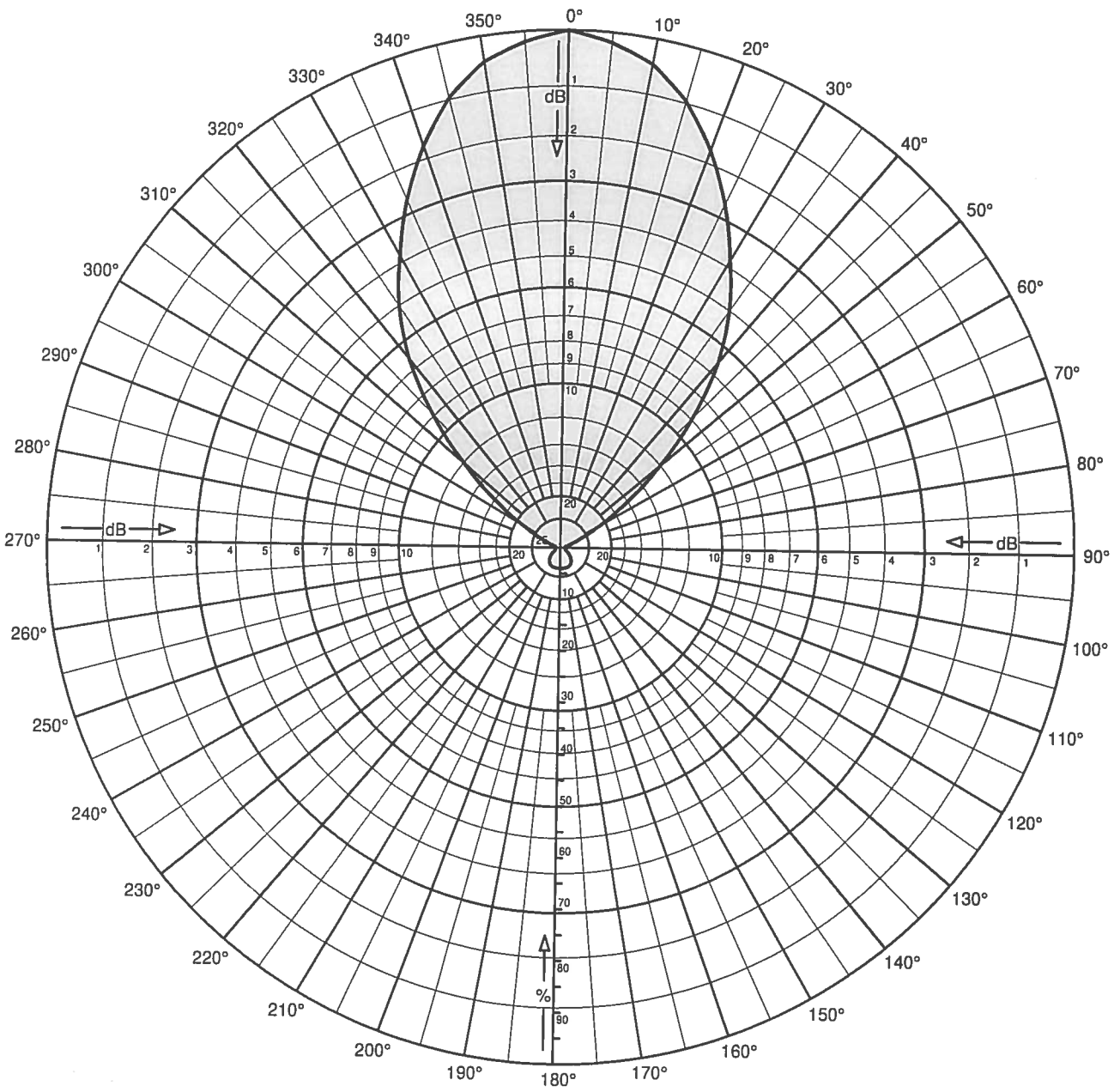


Two CL-FM Log-periodic Antennnas
Oriented at 0 degrees
Gain: 9.5 dBd (x 8.9)
Frequency: 92.9 MHz
Horizontal Polarization
Vertical stacked 1.0 wavelength
Horizontal plane Pattern

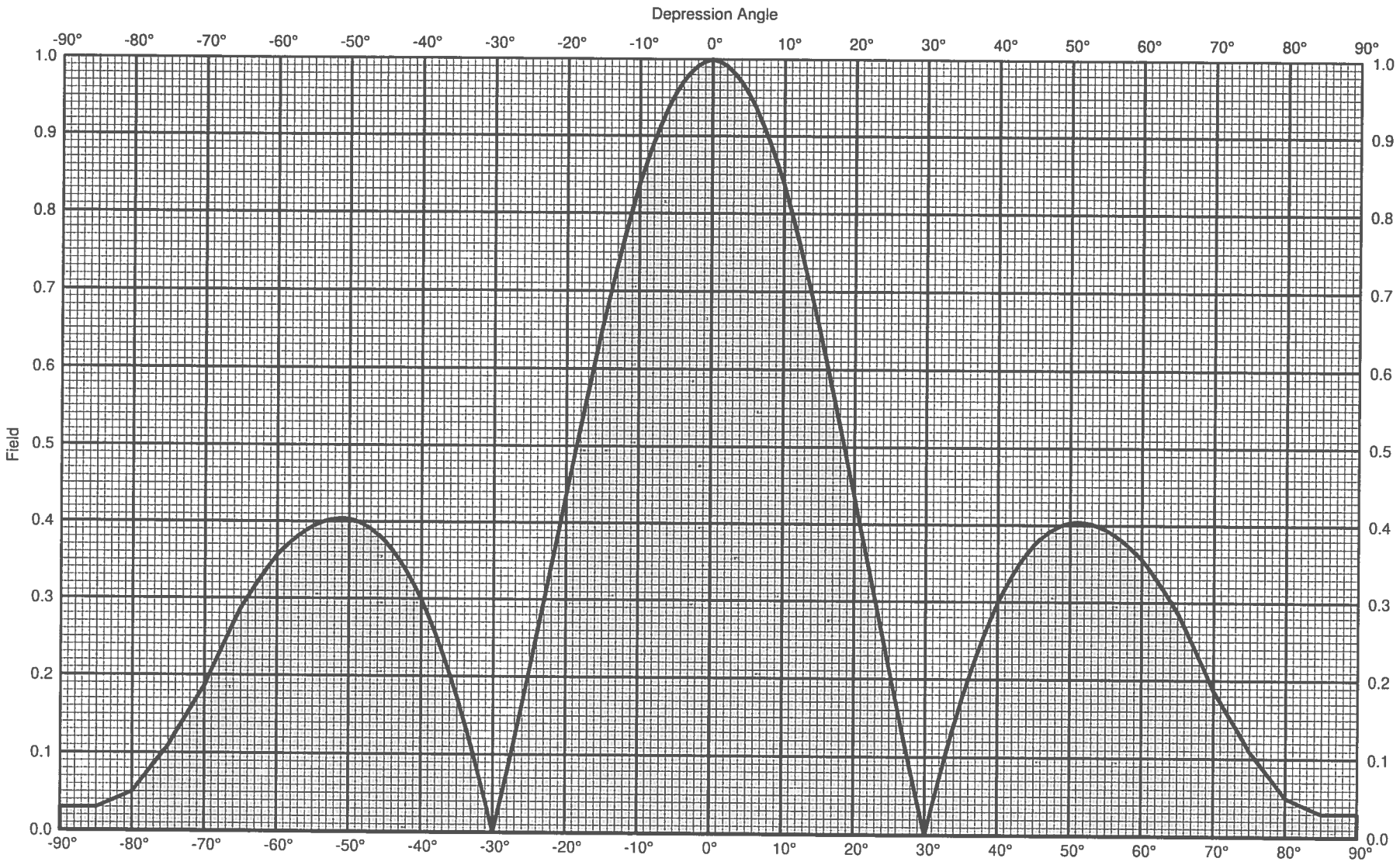
KATHREIN
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Horizontal Polarization
Vertical stacked 1.0 wavelength
Horizontal plane Pattern

Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	9.50	8.91
5	0.980	-0.18	9.32	8.56
10	0.950	-0.45	9.05	8.04
15	0.895	-0.96	8.54	7.14
20	0.820	-1.72	7.78	5.99
25	0.735	-2.67	6.83	4.81
30	0.645	-3.81	5.69	3.71
35	0.562	-5.00	4.50	2.82
40	0.470	-6.56	2.94	1.97
45	0.360	-8.87	0.63	1.16
50	0.250	-12.04	-2.54	0.56
55	0.155	-16.19	-6.69	0.21
60	0.085	-21.41	-11.91	0.06
65	0.045	-26.94	-17.44	0.02
70	0.020	-33.98	-24.48	0.00
75	0.010	-40.00	-30.50	0.00
80	0.010	-40.00	-30.50	0.00
85	0.010	-40.00	-30.50	0.00
90	0.010	-40.00	-30.50	0.00
95	0.010	-40.00	-30.50	0.00
100	0.010	-40.00	-30.50	0.00
105	0.010	-40.00	-30.50	0.00
110	0.010	-40.00	-30.50	0.00
115	0.012	-38.06	-28.56	0.00
120	0.015	-36.48	-26.98	0.00
125	0.020	-33.98	-24.48	0.00
130	0.025	-32.04	-22.54	0.01
135	0.029	-30.75	-21.25	0.01
140	0.034	-29.50	-20.00	0.01
145	0.036	-28.87	-19.37	0.01
150	0.038	-28.29	-18.79	0.01
155	0.039	-28.07	-18.57	0.01
160	0.040	-27.96	-18.46	0.01
165	0.040	-27.96	-18.46	0.01
170	0.040	-27.96	-18.46	0.01
175	0.040	-27.96	-18.46	0.01
180	0.040	-27.96	-18.46	0.01
185	0.040	-27.96	-18.46	0.01
190	0.040	-27.96	-18.46	0.01
195	0.040	-27.96	-18.46	0.01
200	0.040	-27.96	-18.46	0.01
205	0.039	-28.07	-18.57	0.01
210	0.038	-28.29	-18.79	0.01
215	0.036	-28.87	-19.37	0.01
220	0.034	-29.50	-20.00	0.01
225	0.029	-30.75	-21.25	0.01
230	0.025	-32.04	-22.54	0.01
235	0.020	-33.98	-24.48	0.00
240	0.015	-36.48	-26.98	0.00
245	0.012	-38.06	-28.56	0.00
250	0.010	-40.00	-30.50	0.00
255	0.010	-40.00	-30.50	0.00
260	0.010	-40.00	-30.50	0.00
265	0.010	-40.00	-30.50	0.00
270	0.010	-40.00	-30.50	0.00
275	0.010	-40.00	-30.50	0.00
280	0.010	-40.00	-30.50	0.00
285	0.010	-40.00	-30.50	0.00
290	0.020	-33.98	-24.48	0.00
295	0.045	-26.94	-17.44	0.02
300	0.085	-21.41	-11.91	0.06
305	0.155	-16.19	-6.69	0.21
310	0.250	-12.04	-2.54	0.56
315	0.360	-8.87	0.63	1.16
320	0.470	-6.56	2.94	1.97
325	0.562	-5.00	4.50	2.82
330	0.645	-3.81	5.69	3.71
335	0.735	-2.67	6.83	4.81
340	0.820	-1.72	7.78	5.99
345	0.895	-0.96	8.54	7.14
350	0.950	-0.45	9.05	8.04
355	0.980	-0.18	9.32	8.56



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Oriented at 0 degrees

Gain: 9.5 dBd (x 8.9)

Frequency: 92.9 MHz

Horizontal Polarization

Vertical stacked 1.0 wavelength

Vertical plane Pattern

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Angle	Field	Rel.dB	dBd	PwrMult
-90	0.030	-30.46	-20.96	0.01
-89	0.030	-30.46	-20.96	0.01
-88	0.030	-30.46	-20.96	0.01
-87	0.030	-30.46	-20.96	0.01
-86	0.030	-30.46	-20.96	0.01
-85	0.030	-30.46	-20.96	0.01
-84	0.034	-29.37	-19.87	0.01
-83	0.038	-28.41	-18.91	0.01
-82	0.042	-27.54	-18.04	0.02
-81	0.046	-26.75	-17.25	0.02
-80	0.050	-26.03	-16.53	0.02
-79	0.062	-24.17	-14.67	0.03
-78	0.074	-22.64	-13.14	0.05
-77	0.086	-21.34	-11.84	0.07
-76	0.098	-20.21	-10.71	0.08
-75	0.109	-19.22	-9.72	0.11
-74	0.125	-18.06	-8.56	0.14
-73	0.141	-17.04	-7.54	0.18
-72	0.156	-16.13	-6.63	0.22
-71	0.171	-15.32	-5.82	0.26
-70	0.187	-14.58	-5.08	0.31
-69	0.207	-13.66	-4.16	0.38
-68	0.228	-12.85	-3.35	0.46
-67	0.248	-12.11	-2.61	0.55
-66	0.268	-11.44	-1.94	0.64
-65	0.287	-10.84	-1.34	0.73
-64	0.302	-10.40	-0.90	0.81
-63	0.316	-9.99	-0.49	0.89
-62	0.330	-9.62	-0.12	0.97
-61	0.344	-9.28	0.22	1.05
-60	0.356	-8.97	0.53	1.13
-59	0.365	-8.75	0.75	1.19
-58	0.374	-8.54	0.96	1.25
-57	0.382	-8.37	1.13	1.30
-56	0.388	-8.22	1.28	1.34
-55	0.394	-8.09	1.41	1.38
-54	0.398	-8.00	1.50	1.41
-53	0.402	-7.92	1.58	1.44
-52	0.403	-7.89	1.61	1.45
-51	0.404	-7.87	1.63	1.46
-50	0.403	-7.89	1.61	1.45
-49	0.401	-7.94	1.56	1.43
-48	0.396	-8.04	1.46	1.40
-47	0.391	-8.16	1.34	1.36
-46	0.383	-8.33	1.17	1.31
-45	0.374	-8.54	0.96	1.25
-44	0.363	-8.81	0.69	1.17
-43	0.350	-9.12	0.38	1.09
-42	0.335	-9.50	-0.00	1.00
-41	0.318	-9.95	-0.45	0.90
-40	0.299	-10.48	-0.98	0.80
-39	0.278	-11.12	-1.62	0.69
-38	0.254	-11.89	-2.39	0.58
-37	0.229	-12.79	-3.29	0.47
-36	0.202	-13.89	-4.39	0.36
-35	0.173	-15.24	-5.74	0.27
-34	0.142	-16.96	-7.46	0.18
-33	0.109	-19.25	-9.75	0.11
-32	0.074	-22.57	-13.07	0.05
-31	0.038	-28.40	-18.90	0.01
-30	0.010	-40.00	-30.50	0.00
-29	0.040	-28.06	-18.56	0.01
-28	0.080	-21.89	-12.39	0.06
-27	0.123	-18.23	-8.73	0.13
-26	0.166	-15.61	-6.11	0.24
-25	0.210	-13.55	-4.05	0.39
-24	0.255	-11.88	-2.38	0.58
-23	0.300	-10.47	-0.97	0.80
-22	0.345	-9.24	0.26	1.06
-21	0.391	-8.16	1.34	1.36
-20	0.436	-7.20	2.30	1.70
-19	0.481	-6.35	3.15	2.06
-18	0.526	-5.59	3.91	2.46
-17	0.569	-4.89	4.61	2.89
-16	0.613	-4.26	5.24	3.34
-15	0.655	-3.68	5.82	3.82
-14	0.694	-3.17	6.33	4.30
-13	0.733	-2.70	6.80	4.79
-12	0.770	-2.28	7.22	5.28
-11	0.805	-1.89	7.61	5.77
-10	0.838	-1.54	7.96	6.26
-9	0.866	-1.25	8.25	6.69
-8	0.893	-0.98	8.52	7.10
-7	0.916	-0.76	8.74	7.49
-6	0.938	-0.56	8.94	7.84
-5	0.956	-0.39	9.11	8.15
-4	0.971	-0.25	9.25	8.41
-3	0.983	-0.15	9.35	8.60
-2	0.992	-0.07	9.43	8.76
-1	0.997	-0.03	9.47	8.86
0	1.000	0.00	9.50	8.91

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Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	9.50	8.91
1	0.997	-0.03	9.47	8.86
2	0.992	-0.07	9.43	8.76
3	0.983	-0.15	9.35	8.60
4	0.971	-0.25	9.25	8.41
5	0.956	-0.39	9.11	8.15
6	0.938	-0.56	8.94	7.84
7	0.916	-0.76	8.74	7.49
8	0.893	-0.98	8.52	7.10
9	0.866	-1.25	8.25	6.69
10	0.838	-1.54	7.96	6.26
11	0.805	-1.89	7.61	5.77
12	0.770	-2.28	7.22	5.28
13	0.733	-2.70	6.80	4.79
14	0.694	-3.17	6.33	4.30
15	0.655	-3.68	5.82	3.82
16	0.613	-4.26	5.24	3.35
17	0.569	-4.89	4.61	2.89
18	0.526	-5.59	3.91	2.46
19	0.481	-6.35	3.15	2.06
20	0.436	-7.20	2.30	1.70
21	0.391	-8.16	1.34	1.36
22	0.345	-9.24	0.26	1.06
23	0.300	-10.47	-0.97	0.80
24	0.255	-11.88	-2.38	0.58
25	0.210	-13.55	-4.05	0.39
26	0.166	-15.61	-6.11	0.24
27	0.123	-18.23	-8.73	0.13
28	0.080	-21.89	-12.39	0.06
29	0.040	-28.05	-18.55	0.01
30	0.010	-40.00	-30.50	0.00
31	0.038	-28.40	-18.90	0.01
32	0.074	-22.58	-13.08	0.05
33	0.109	-19.25	-9.75	0.11
34	0.142	-16.96	-7.46	0.18
35	0.173	-15.24	-5.74	0.27
36	0.202	-13.89	-4.39	0.36
37	0.229	-12.79	-3.29	0.47
38	0.254	-11.89	-2.39	0.58
39	0.278	-11.12	-1.62	0.69
40	0.299	-10.48	-0.98	0.80
41	0.318	-9.95	-0.45	0.90
42	0.335	-9.50	-0.00	1.00
43	0.350	-9.12	0.38	1.09
44	0.363	-8.81	0.69	1.17
45	0.374	-8.54	0.96	1.25
46	0.383	-8.33	1.17	1.31
47	0.391	-8.16	1.34	1.36
48	0.396	-8.04	1.46	1.40
49	0.401	-7.94	1.56	1.43
50	0.403	-7.89	1.61	1.45
51	0.404	-7.87	1.63	1.46
52	0.403	-7.89	1.61	1.45
53	0.402	-7.92	1.58	1.44
54	0.398	-8.00	1.50	1.41
55	0.394	-8.09	1.41	1.38
56	0.388	-8.22	1.28	1.34
57	0.382	-8.37	1.13	1.30
58	0.374	-8.54	0.96	1.25
59	0.365	-8.75	0.75	1.19
60	0.356	-8.97	0.53	1.13
61	0.344	-9.28	0.22	1.05
62	0.330	-9.62	-0.12	0.97
63	0.316	-9.99	-0.49	0.89
64	0.302	-10.40	-0.90	0.81
65	0.287	-10.84	-1.34	0.73
66	0.268	-11.44	-1.94	0.64
67	0.248	-12.11	-2.61	0.55
68	0.228	-12.85	-3.35	0.46
69	0.207	-13.66	-4.16	0.38
70	0.187	-14.58	-5.08	0.31
71	0.171	-15.32	-5.82	0.26
72	0.156	-16.13	-6.63	0.22
73	0.141	-17.04	-7.54	0.18
74	0.125	-18.06	-8.56	0.14
75	0.109	-19.22	-9.72	0.11
76	0.098	-20.21	-10.71	0.08
77	0.086	-21.34	-11.84	0.07
78	0.074	-22.64	-13.14	0.05
79	0.062	-24.17	-14.67	0.03
80	0.050	-26.03	-16.53	0.02
81	0.046	-26.75	-17.25	0.02
82	0.042	-27.54	-18.04	0.02
83	0.038	-28.41	-18.91	0.01
84	0.034	-29.37	-19.87	0.01
85	0.030	-30.46	-20.96	0.01
86	0.030	-30.46	-20.96	0.01
87	0.030	-30.46	-20.96	0.01
88	0.030	-30.46	-20.96	0.01
89	0.030	-30.46	-20.96	0.01
90	0.030	-30.46	-20.96	0.01