



## ANTENNA SPECIFICATIONS



<b>CALL SIGN:</b>	WVUE-DT
<b>CITY OF LICENSE:</b>	New Orleans
<b>STATE:</b>	LA
<b>ANTENNA TYPE:</b>	EP Bcast Slot
<b>ANTENNA MODEL:</b>	ATC-BCE326CX-29

### ELECTRICAL CHARACTERISTICS

<b>Channel(s):</b>	<b>29</b>	
<b>Frequency Range(s) (MHz):</b>	560-566	
<b>Azimuth Pattern:</b>	<b>Directivity</b>	<b>dB</b>
Hpol	1.76	2.46
Vpol	2.20	3.42
<b>Elevation Pattern:</b>		
Peak of Beam:	26.40	14.22
Horizontal:	17.29	12.38
<b>V/H Ratio:</b>	0.20	
<b>Peak Power Gain:</b>	46.46	16.67
Hpol	38.72	15.88
Vpol	7.74	8.89
<b>Gain at Horizontal</b>	30.43	14.8
Hpol	25.36	14.04
Vpol	5.07	7.05
<b>Electrical Beam Tilt:</b>	0.75 Degrees	
<b>Polarization:</b>	Elliptical - 20% V-Pol	
<b>Power Handling (Max. Input, kW):</b>	50 kW	
<b>Input Type:</b>	6-1/8" 75 ohm EIA	
<b>VSWR (Maximum):</b>	1.08	

### MECHANICAL CHARACTERISTICS

<b>Mount Type:</b>	Top Mount	
<b>Length of Antenna:</b>	51 ft.	
<b>Center of Radiation:</b>	25.5 ft.	
<b>Radome Diameter:</b>	18" Radome	
<b>Color:</b>	White	
<b>Climbing Device:</b>	Ladder	
<b>Weight:</b>	9,350 lbs.	Note 1,2
<b>Effective Windload Area:</b>	67 sq ft	Note 1,2

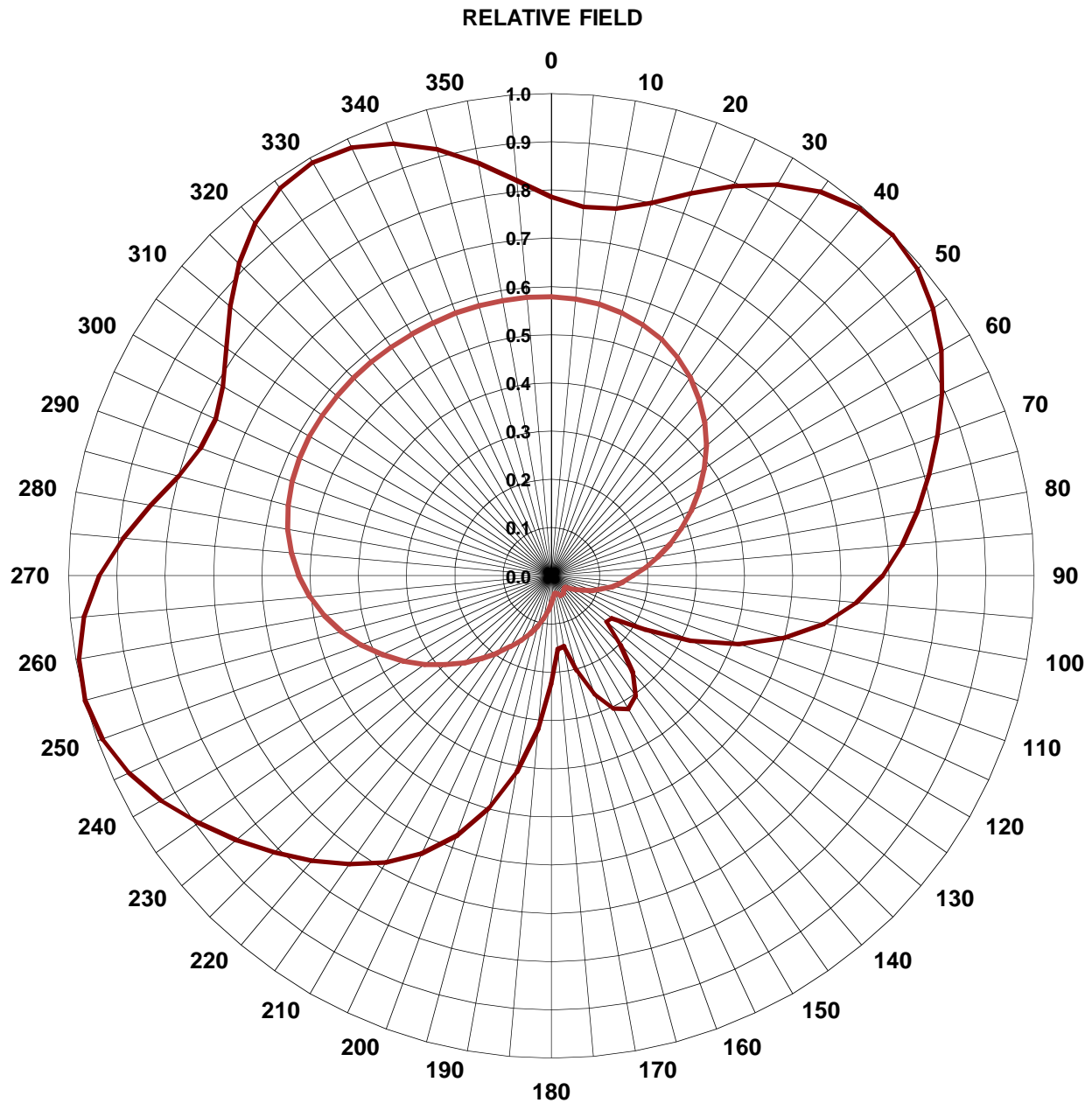
#### NOTES:

- 1 Weights, dimensions, and windload data are approximate and site dependent. Localized conditions may require design reevaluation to higher wind speed values than TIA/EIA specifications.
- 2 Loads are typical for antennas designed to 105 MPH basic wind speed per EIA-222F.

## AZIMUTH PATTERN



TYPE:	ATC-BCE326CX-29	
	Numeric	dB
Directivity:	1.76	2.46
Polarization:	Elliptical	
Channel:	29	
Location:	New Orleans	

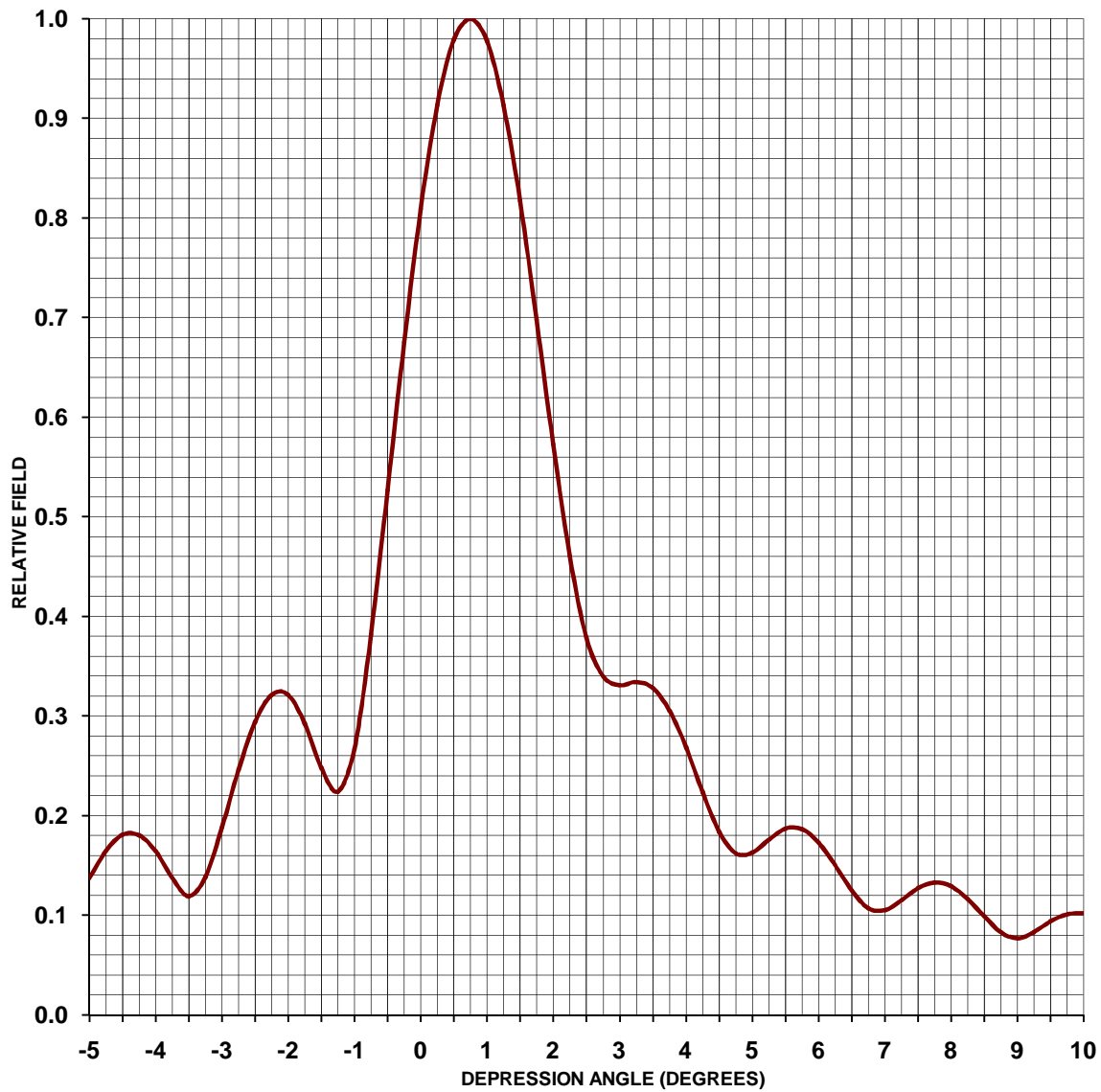


## ELEVATION PATTERN



TYPE: ATC-BCE326CX-29

Directivity:	Numeric	dBd
Main Lobe:	26.40	14.2
Horizontal:	17.29	12.4
Beam Tilt:	0.75	
Polarization:	Elliptical	
Channel:	29	
Location:	New Orleans	



# ELEVATION PATTERN TABULATION

ATC-BCE326CX-29

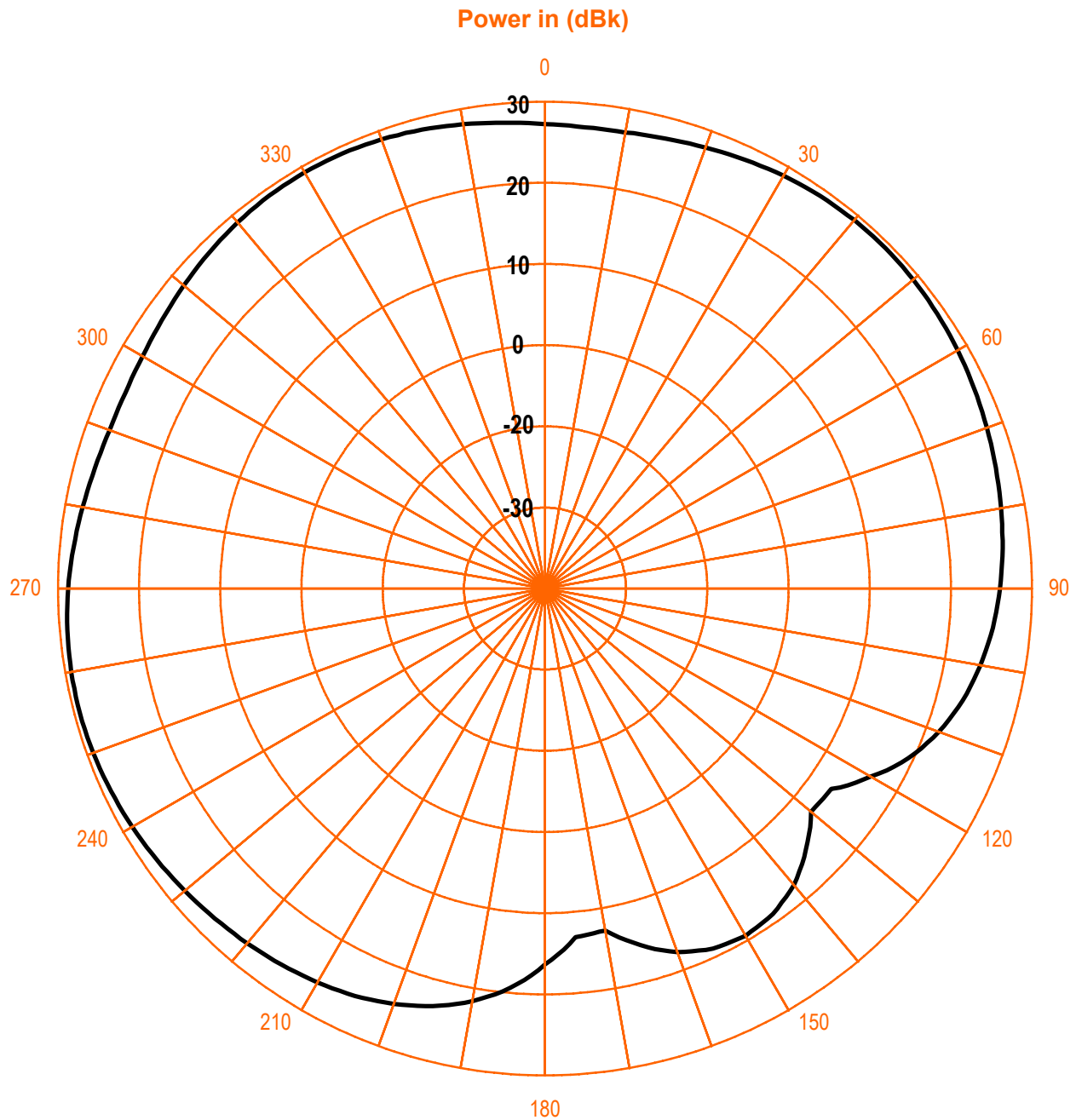
-5 to 10 in 0.25 increments

10 to 90 in 0.50 increments



ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-5.00	0.137	-17.27	6.75	0.107	-19.41	27.00	0.039	-28.18	50.50	0.021	-33.56	74.00	0.038	-28.40
-4.75	0.165	-15.65	7.00	0.105	-19.58	27.50	0.043	-27.33	51.00	0.030	-30.46	74.50	0.045	-26.94
-4.50	0.181	-14.85	7.25	0.115	-18.79	28.00	0.036	-28.87	51.50	0.039	-28.18	75.00	0.051	-25.85
-4.25	0.180	-14.89	7.50	0.127	-17.92	28.50	0.027	-31.37	52.00	0.042	-27.54	75.50	0.055	-25.19
-4.00	0.164	-15.70	7.75	0.133	-17.52	29.00	0.030	-30.46	52.50	0.039	-28.18	76.00	0.057	-24.88
-3.75	0.137	-17.27	8.00	0.129	-17.79	29.50	0.039	-28.18	53.00	0.030	-30.46	76.50	0.058	-24.73
-3.50	0.119	-18.49	8.25	0.116	-18.71	30.00	0.041	-27.74	53.50	0.021	-33.56	77.00	0.058	-24.73
-3.25	0.138	-17.20	8.50	0.099	-20.09	30.50	0.032	-29.90	54.00	0.022	-33.15	77.50	0.056	-25.04
-3.00	0.188	-14.52	8.75	0.083	-21.62	31.00	0.025	-32.04	54.50	0.032	-29.90	78.00	0.053	-25.51
-2.75	0.246	-12.18	9.00	0.077	-22.27	31.50	0.031	-30.17	55.00	0.040	-27.96	78.50	0.049	-26.20
-2.50	0.294	-10.63	9.25	0.083	-21.62	32.00	0.039	-28.18	55.50	0.044	-27.13	79.00	0.045	-26.94
-2.25	0.321	-9.87	9.50	0.094	-20.54	32.50	0.039	-28.18	56.00	0.041	-27.74	79.50	0.040	-27.96
-2.00	0.321	-9.87	9.75	0.101	-19.91	33.00	0.030	-30.46	56.50	0.034	-29.37	80.00	0.035	-29.12
-1.75	0.292	-10.69	10.00	0.102	-19.83	33.50	0.024	-32.40	57.00	0.025	-32.04	80.50	0.031	-30.17
-1.50	0.248	-12.11	10.50	0.084	-21.51	34.00	0.031	-30.17	57.50	0.021	-33.56	81.00	0.026	-31.70
-1.25	0.224	-13.00	11.00	0.063	-24.01	34.50	0.038	-28.40	58.00	0.028	-31.06	81.50	0.022	-33.15
-1.00	0.267	-11.47	11.50	0.072	-22.85	35.00	0.038	-28.40	58.50	0.037	-28.64	82.00	0.019	-34.42
-0.75	0.382	-8.36	12.00	0.084	-21.51	35.50	0.029	-30.75	59.00	0.044	-27.13	82.50	0.016	-35.92
-0.50	0.527	-5.56	12.50	0.074	-22.62	36.00	0.023	-32.77	59.50	0.046	-26.74	83.00	0.014	-37.08
-0.25	0.675	-3.41	13.00	0.055	-25.19	36.50	0.029	-30.75	60.00	0.043	-27.33	83.50	0.013	-37.72
0.00	0.809	-1.84	13.50	0.058	-24.73	37.00	0.038	-28.40	60.50	0.036	-28.87	84.00	0.013	-37.72
0.25	0.913	-0.79	14.00	0.071	-22.97	37.50	0.038	-28.40	61.00	0.027	-31.37	84.50	0.013	-37.72
0.50	0.979	-0.18	14.50	0.067	-23.48	38.00	0.031	-30.17	61.50	0.021	-33.56	85.00	0.013	-37.72
0.75	1.000	0.00	15.00	0.051	-25.85	38.50	0.022	-33.15	62.00	0.025	-32.04	85.50	0.012	-38.42
1.00	0.978	-0.19	15.50	0.047	-26.56	39.00	0.026	-31.70	62.50	0.034	-29.37	86.00	0.012	-38.42
1.25	0.913	-0.79	16.00	0.060	-24.44	39.50	0.036	-28.87	63.00	0.043	-27.33	86.50	0.011	-39.17
1.50	0.817	-1.76	16.50	0.062	-24.15	40.00	0.039	-28.18	63.50	0.048	-26.38	87.00	0.010	-40.00
1.75	0.698	-3.12	17.00	0.049	-26.20	40.50	0.034	-29.37	64.00	0.050	-26.02	87.50	0.009	-40.92
2.00	0.573	-4.84	17.50	0.041	-27.74	41.00	0.024	-32.40	64.50	0.047	-26.56	88.00	0.008	-41.94
2.25	0.461	-6.73	18.00	0.050	-26.02	41.50	0.022	-33.15	65.00	0.040	-27.96	88.50	0.006	-44.44
2.50	0.379	-8.43	18.50	0.056	-25.04	42.00	0.031	-30.17	65.50	0.032	-29.90	89.00	0.004	-47.96
2.75	0.340	-9.37	19.00	0.049	-26.20	42.50	0.039	-28.18	66.00	0.024	-32.40	89.50	0.002	-53.98
3.00	0.331	-9.60	19.50	0.037	-28.64	43.00	0.038	-28.40	66.50	0.022	-33.15	90.00	0.001	-60.00
3.25	0.334	-9.53	20.00	0.041	-27.74	43.50	0.030	-30.46	67.00	0.027	-31.37			
3.50	0.328	-9.68	20.50	0.050	-26.02	44.00	0.021	-33.56	67.50	0.036	-28.87			
3.75	0.305	-10.31	21.00	0.048	-26.38	44.50	0.024	-32.40	68.00	0.045	-26.94			
4.00	0.268	-11.44	21.50	0.037	-28.64	45.00	0.034	-29.37	68.50	0.051	-25.85			
4.25	0.223	-13.03	22.00	0.035	-29.12	45.50	0.040	-27.96	69.00	0.054	-25.35			
4.50	0.183	-14.75	22.50	0.044	-27.13	46.00	0.038	-28.40	69.50	0.054	-25.35			
4.75	0.162	-15.81	23.00	0.047	-26.56	46.50	0.029	-30.75	70.00	0.051	-25.85			
5.00	0.163	-15.76	23.50	0.039	-28.18	47.00	0.021	-33.56	70.50	0.045	-26.94			
5.25	0.176	-15.09	24.00	0.031	-30.17	47.50	0.024	-32.40	71.00	0.038	-28.40			
5.50	0.187	-14.56	24.50	0.037	-28.64	48.00	0.034	-29.37	71.50	0.030	-30.46			
5.75	0.186	-14.61	25.00	0.044	-27.13	48.50	0.040	-27.96	72.00	0.023	-32.77			
6.00	0.173	-15.24	25.50	0.042	-27.54	49.00	0.040	-27.96	72.50	0.020	-33.98			
6.25	0.150	-16.48	26.00	0.032	-29.90	49.50	0.032	-29.90	73.00	0.024	-32.40			
6.50	0.125	-18.06	26.50	0.030	-30.46	50.00	0.023	-32.77	73.50	0.031	-30.17			

**WVUE-DT NEW ORLAENS, LA  
HORIZONTAL PLANE PLOT**



Antenna: ATC ATC-BCE326CX-29  
Rotation: 330°  
Location: ASRN 1022410  
Channel: 29  
Modulation: Digital  
Max. ERP(kW): 850 (29.29 dBk)  
HAAT(m): 290



**LOHNES AND CULVER**  
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