

Note: To obtain separate steel and aluminum tensions, (separate AL & STL), refer to **Options** (Main Menu).

ALUMINUM COMPANY OF AMERICA SAG AND TENSION DATA

Sample Problem w/Separate Tensions
Starting Point 26' Sag at 212 Deg F Final

Conductor DRAKE 795.0 Kcmil 26/ 7 Stranding ACSR
Area= .7264 Sq. In Dia= 1.108 In Wt= 1.094 Lb/F RTS= 31500 Lb
Data from Chart No. 1-537
English Units

Span= 1000.0 Feet NESC Heavy Load Zone
Creep IS a Factor

Design Points				Final		Initial		
Temp	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
F	In	Psf	Lb/F	Lb/F	Ft	Lb	Ft	Lb
0.	.50	4.00	.30	2.509	23.93	13148. 6898.A 6250.S	23.87	13179. 6856.A 6323.S
32.	.50	.00	.00	2.094	24.13	10883. 5114.A 5769.S	23.21	11310. 5716.A 5594.S
-20.	.00	.00	.00	1.094	16.05	8532. 4191.A 4341.S	14.57	9394. 5214.A 4181.S
0.	.00	.00	.00	1.094	17.39	7875.* 3556.A 4319.S	15.55	8807. 4760.A 4046.S
30.	.00	.00	.00	1.094	19.44	7048. 2705.A 4343.S	17.12	8002. 4106.A 3896.S
60.	.00	.00	.00	1.094	21.49	6381. 1955.A 4425.S	18.78	7297. 3491.A 3806.S
90.	.00	.00	.00	1.094	23.49	5839. 1285.A 4554.S	20.50	6687. 2915.A 3772.S
120.	.00	.00	.00	1.094	25.43	5395. 677.A 4718.S	22.24	6166. 2377.A 3789.S
167.	.00	.00	.00	1.094	28.03	4900. 0.A 4900.S	24.95	5500. 1603.A 3897.S
212.	.00	.00	.00	1.094	29.37	4677. 0.A 4677.S	27.48	4997. 924.A 4072.S

* Design Condition