

Note: A Common Point is used by making a heavy load entry without tension but with code 1.  
 This forces the heavy loading to control the spread between initial and final.  
 The extra heavy load is an information point only.

**Loadings Table**  
**Main Menu Elev Temp Edit**

Deg F	In	Psf	% or Lb	Code
Temp	Ice	Wind	Tension	
0	1.5	4		
0	.5	4	10000	1
0	.5	4		1
32	.5			
-20				
0				
30				
60				2
90				
120				
167				
212				

ALUMINUM COMPANY OF AMERICA SAG AND TENSION DATA

Sample Problem  
 Heavy Loading with Extra Heavy Common Point

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 NOT 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.	1.50	.00	.00	5.961	41.11	18287.	41.11	18287.
0.	.50	4.00	.30	2.509	31.53	10000.	31.53	10000.*+
32.	.50	.00	.00	2.094	32.06	8209.	31.49	8358.
-20.	.00	.00	.00	1.094	25.96	5287.	24.72	5549.
0.	.00	.00	.00	1.094	27.20	5047.	25.84	5311.
30.	.00	.00	.00	1.094	29.02	4734.	27.48	4996.
60.	.00	.00	.00	1.094	30.76	4468.	29.09	4721.
90.	.00	.00	.00	1.094	32.44	4239.	30.67	4482.
120.	.00	.00	.00	1.094	34.07	4039.	32.20	4271.
167.	.00	.00	.00	1.094	35.81	3845.	34.51	3988.
212.	.00	.00	.00	1.094	37.06	3717.	36.64	3759.

\* Design Condition  
 + Common Point