Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	145		RAVEN - INITIAL	
Conductor Condition	*1/0 AWG ACSR - Raven Initial Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1346.	1273.	1198.	1121.	1043.	1003.	963.	923.	883.	842.	801.	760.	719.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
75	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
100	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4
120	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5
140	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6
160	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8
180	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-8	0-9	0-9	0-10	0-10
200	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-1
210	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2
220	0-8	0-9	0-9	0-10	0-11	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
230	0-9	0-10	0-10	0-11	1-0	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
240	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-3	1-4	1-5	1-6
250	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7
260	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9
270	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-11
280	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
290	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	1-11	2-1	2-2
300	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4
310	1-4	1-5	1-6	1-7	1-9	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6
320	1-5	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-6	2-7
330	1-6	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-9
340	1-7	1-8	1-9	1-11	2-1	2-2	2-3	2-4	2-5	2-6	2-8	2-10	2-11
350	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2

Ruling Span (Feet)	145		RAVEN - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG AAC - Raven Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1346.	1273.	1198.	1121.	1043.	1003.	963.	923.	883.	842.	801.	760.	719.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	1.59	1.64	1.69	1.74	1.81	1.84	1.88	1.92	1.97	2.01	2.06	2.12	2.18
50	.55	.56	.58	.60	.62	.64	.65	.66	.68	.69	.71	.73	.75
75	.82	.85	.87	.90	.94	.95	.97	.99	1.02	1.04	1.07	1.10	1.13
100	1.10	1.13	1.16	1.20	1.25	1.27	1.30	1.33	1.36	1.39	1.42	1.46	1.50
120	1.32	1.35	1.40	1.44	1.50	1.53	1.56	1.59	1.63	1.67	1.71	1.75	1.80
140	1.54	1.58	1.63	1.68	1.75	1.78	1.82	1.86	1.90	1.94	1.99	2.04	2.10
160	1.76	1.81	1.86	1.92	1.99	2.03	2.08	2.12	2.17	2.22	2.28	2.34	2.40
180	1.98	2.03	2.09	2.16	2.24	2.29	2.34	2.39	2.44	2.50	2.56	2.63	2.70
200	2.19	2.26	2.33	2.40	2.49	2.54	2.59	2.65	2.71	2.78	2.85	2.92	3.00
210	2.30	2.37	2.44	2.53	2.62	2.67	2.72	2.78	2.85	2.91	2.99	3.07	3.15
220	2.41	2.48	2.56	2.65	2.74	2.80	2.85	2.92	2.98	3.05	3.13	3.21	3.30
230	2.52	2.60	2.68	2.77	2.87	2.92	2.98	3.05	3.12	3.19	3.27	3.36	3.45
240	2.63	2.71	2.79	2.89	2.99	3.05	3.11	3.18	3.25	3.33	3.41	3.51	3.60
250	2.74	2.82	2.91	3.01	3.12	3.18	3.24	3.31	3.39	3.47	3.56	3.65	3.75
260	2.85	2.93	3.02	3.13	3.24	3.31	3.37	3.45	3.52	3.61	3.70	3.80	3.90
270	2.96	3.05	3.14	3.25	3.37	3.43	3.50	3.58	3.66	3.75	3.84	3.94	4.05
280	3.07	3.16	3.26	3.37	3.49	3.56	3.63	3.71	3.79	3.89	3.98	4.09	4.20
290	3.18	3.27	3.37	3.49	3.62	3.69	3.76	3.84	3.93	4.02	4.13	4.24	4.35
300	3.29	3.39	3.49	3.61	3.74	3.81	3.89	3.98	4.07	4.16	4.27	4.38	4.50
310	3.40	3.50	3.61	3.73	3.87	3.94	4.02	4.11	4.20	4.30	4.41	4.53	4.65
320	3.51	3.61	3.72	3.85	3.99	4.07	4.15	4.24	4.34	4.44	4.55	4.67	4.81
330	3.62	3.72	3.84	3.97	4.11	4.19	4.28	4.37	4.47	4.58	4.70	4.82	4.96
340	3.73	3.84	3.96	4.09	4.24	4.32	4.41	4.51	4.61	4.72	4.84	4.97	5.11
350	3.84	3.95	4.07	4.21	4.36	4.45	4.54	4.64	4.74	4.86	4.98	5.11	5.26

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	160		RAVEN - INITIAL	
Conductor Condition	1/0 AWG ACSR - Raven Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1321.	1247.	1172.	1095.	1017.	977.	937.	897.	857.	817.	776.	736.	696.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
75	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
100	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4
120	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
140	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7
160	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
180	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11
200	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
210	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2
220	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4
230	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5
240	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6	1-6
250	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8
260	1-0	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-7	1-8	1-10
270	1-1	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11
280	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10	2-0	2-1
290	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3
300	1-3	1-4	1-5	1-6	1-8	1-9	1-9	1-10	1-11	2-0	2-2	2-3	2-5
310	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-7
320	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-9
330	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-7	2-9	2-11
340	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-7	2-9	2-11	3-1
350	1-9	1-10	1-11	2-1	2-3	2-4	2-5	2-6	2-8	2-9	2-11	3-1	3-3

Ruling Span (Feet)	160		RAVEN - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG AAC - Raven Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1321.	1247.	1172.	1095.	1017.	977.	937.	897.	857.	817.	776.	736.	696.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	1.77	1.82	1.88	1.95	2.02	2.06	2.10	2.15	2.20	2.25	2.31	2.37	2.44
50	.55	.57	.59	.61	.63	.64	.66	.67	.69	.70	.72	.74	.76
75	.83	.86	.88	.91	.95	.97	.99	1.01	1.03	1.06	1.08	1.11	1.14
100	1.11	1.14	1.18	1.22	1.26	1.29	1.32	1.34	1.38	1.41	1.44	1.48	1.53
120	1.33	1.37	1.41	1.46	1.52	1.55	1.58	1.61	1.65	1.69	1.73	1.78	1.83
140	1.55	1.60	1.65	1.70	1.77	1.80	1.84	1.88	1.93	1.97	2.02	2.08	2.14
160	1.77	1.82	1.88	1.95	2.02	2.06	2.10	2.15	2.20	2.25	2.31	2.37	2.44
180	1.99	2.05	2.12	2.19	2.27	2.32	2.37	2.42	2.48	2.54	2.60	2.67	2.75
200	2.22	2.28	2.35	2.43	2.53	2.58	2.63	2.69	2.75	2.82	2.89	2.97	3.05
210	2.33	2.39	2.47	2.56	2.65	2.70	2.76	2.82	2.89	2.96	3.03	3.12	3.20
220	2.44	2.51	2.59	2.68	2.78	2.83	2.89	2.96	3.03	3.10	3.18	3.26	3.36
230	2.55	2.62	2.71	2.80	2.90	2.96	3.02	3.09	3.16	3.24	3.32	3.41	3.51
240	2.66	2.74	2.82	2.92	3.03	3.09	3.16	3.23	3.30	3.38	3.47	3.56	3.66
250	2.77	2.85	2.94	3.04	3.16	3.22	3.29	3.36	3.44	3.52	3.61	3.71	3.82
260	2.88	2.96	3.06	3.16	3.28	3.35	3.42	3.49	3.58	3.66	3.76	3.86	3.97
270	2.99	3.08	3.18	3.29	3.41	3.48	3.55	3.63	3.71	3.80	3.90	4.01	4.12
280	3.10	3.19	3.29	3.41	3.54	3.61	3.68	3.76	3.85	3.94	4.05	4.16	4.27
290	3.21	3.31	3.41	3.53	3.66	3.74	3.81	3.90	3.99	4.09	4.19	4.30	4.43
300	3.32	3.42	3.53	3.65	3.79	3.86	3.95	4.03	4.13	4.23	4.33	4.45	4.58
310	3.43	3.53	3.65	3.77	3.91	3.99	4.08	4.17	4.26	4.37	4.48	4.60	4.73
320	3.55	3.65	3.76	3.89	4.04	4.12	4.21	4.30	4.40	4.51	4.62	4.75	4.88
330	3.66	3.76	3.88	4.02	4.17	4.25	4.34	4.44	4.54	4.65	4.77	4.90	5.04
340	3.77	3.88	4.00	4.14	4.29	4.38	4.47	4.57	4.68	4.79	4.91	5.05	5.19
350	3.88	3.99	4.12	4.26	4.42	4.51	4.60	4.70	4.81	4.93	5.06	5.19	5.34

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	175		RAVEN - INITIAL	
Conductor Condition	*1/0 AWG ACSR - Raven Initial Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1292.	1218.	1143.	1066.	988.	949.	909.	870.	830.	790.	750.	711.	672.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
75	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
100	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4
120	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5
140	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7
160	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9
180	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11
200	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
210	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3
220	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4
230	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-5	1-6
240	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6	1-7
250	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
260	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10
270	1-1	1-2	1-2	1-3	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
280	1-2	1-2	1-3	1-4	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2
290	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4
300	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6
310	1-5	1-6	1-7	1-8	1-10	1-11	1-11	2-1	2-2	2-3	2-4	2-6	2-8
320	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-10
330	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5	2-6	2-8	2-10	3-0
340	1-8	1-9	1-10	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2
350	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-7	2-9	2-10	3-0	3-2	3-4

Ruling Span (Feet)	175		RAVEN - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG AAC - Raven Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1292.	1218.	1143.	1066.	988.	949.	909.	870.	830.	790.	750.	711.	672.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	1.96	2.02	2.08	2.16	2.24	2.29	2.34	2.39	2.45	2.51	2.57	2.64	2.72
50	.56	.58	.60	.62	.64	.65	.67	.68	.70	.72	.73	.75	.78
75	.84	.87	.89	.92	.96	.98	1.00	1.02	1.05	1.07	1.10	1.13	1.16
100	1.12	1.15	1.19	1.23	1.28	1.31	1.34	1.37	1.40	1.43	1.47	1.51	1.55
120	1.34	1.38	1.43	1.48	1.54	1.57	1.60	1.64	1.68	1.72	1.76	1.81	1.86
140	1.57	1.61	1.67	1.73	1.79	1.83	1.87	1.91	1.96	2.01	2.06	2.11	2.17
160	1.79	1.85	1.91	1.97	2.05	2.09	2.14	2.18	2.24	2.29	2.35	2.42	2.49
180	2.02	2.08	2.14	2.22	2.31	2.35	2.40	2.46	2.52	2.58	2.65	2.72	2.80
200	2.24	2.31	2.38	2.47	2.56	2.61	2.67	2.73	2.80	2.86	2.94	3.02	3.11
210	2.35	2.42	2.50	2.59	2.69	2.74	2.80	2.87	2.94	3.01	3.09	3.17	3.26
220	2.46	2.54	2.62	2.71	2.82	2.88	2.94	3.00	3.07	3.15	3.23	3.32	3.42
230	2.58	2.65	2.74	2.84	2.95	3.01	3.07	3.14	3.21	3.29	3.38	3.47	3.57
240	2.69	2.77	2.86	2.96	3.07	3.14	3.20	3.28	3.35	3.44	3.53	3.62	3.73
250	2.80	2.88	2.98	3.08	3.20	3.27	3.34	3.41	3.49	3.58	3.67	3.78	3.88
260	2.91	3.00	3.10	3.21	3.33	3.40	3.47	3.55	3.63	3.72	3.82	3.93	4.04
270	3.02	3.11	3.22	3.33	3.46	3.53	3.61	3.69	3.77	3.87	3.97	4.08	4.19
280	3.14	3.23	3.33	3.45	3.59	3.66	3.74	3.82	3.91	4.01	4.12	4.23	4.35
290	3.25	3.35	3.45	3.58	3.71	3.79	3.87	3.96	4.05	4.15	4.26	4.38	4.50
300	3.36	3.46	3.57	3.70	3.84	3.92	4.01	4.10	4.19	4.30	4.41	4.53	4.66
310	3.47	3.58	3.69	3.82	3.97	4.05	4.14	4.23	4.33	4.44	4.56	4.68	4.82
320	3.58	3.69	3.81	3.95	4.10	4.18	4.27	4.37	4.47	4.58	4.70	4.83	4.97
330	3.70	3.81	3.93	4.07	4.23	4.31	4.41	4.51	4.61	4.73	4.85	4.98	5.13
340	3.81	3.92	4.05	4.19	4.35	4.44	4.54	4.64	4.75	4.87	5.00	5.13	5.28
350	3.92	4.04	4.17	4.32	4.48	4.57	4.67	4.78	4.89	5.01	5.14	5.29	5.44

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	190		RAVEN - INITIAL	
Conductor	*1/0 AWG ACSR - Raven*												
Condition	*Initial Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1261.	1187.	1112.	1035.	958.	919.	879.	840.	801.	762.	723.	685.	647.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-7	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-1
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
75	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
100	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
120	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
140	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7
160	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9
180	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11
200	0-7	0-8	0-8	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2
210	0-8	0-9	0-9	0-10	0-11	0-11	0-11	1-0	1-0	1-1	1-2	1-3	1-3
220	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
230	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5	1-6
240	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8
250	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-10
260	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11
270	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10	2-0	2-1
280	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3
290	1-3	1-4	1-5	1-6	1-8	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-5
300	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7
310	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-7	2-9
320	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-3	2-4	2-6	2-7	2-9	2-11
330	1-7	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-1
340	1-8	1-10	1-11	2-1	2-3	2-4	2-5	2-6	2-8	2-10	2-11	3-1	3-3
350	1-10	1-11	2-0	2-2	2-4	2-6	2-7	2-8	2-10	2-11	3-1	3-3	3-6

Ruling Span (Feet)	190		RAVEN - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG AAC - Raven Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1261.	1187.	1112.	1035.	958.	919.	879.	840.	801.	762.	723.	685.	647.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.15	2.22	2.29	2.38	2.47	2.52	2.58	2.64	2.70	2.77	2.84	2.92	3.01
50	.57	.58	.60	.63	.65	.66	.68	.69	.71	.73	.75	.77	.79
75	.85	.88	.91	.94	.98	1.00	1.02	1.04	1.07	1.09	1.12	1.15	1.19
100	1.13	1.17	1.21	1.25	1.30	1.33	1.36	1.39	1.42	1.46	1.50	1.54	1.58
120	1.36	1.40	1.45	1.50	1.56	1.59	1.63	1.67	1.71	1.75	1.80	1.85	1.90
140	1.59	1.64	1.69	1.75	1.82	1.86	1.90	1.94	1.99	2.04	2.10	2.15	2.22
160	1.81	1.87	1.93	2.00	2.08	2.13	2.17	2.22	2.28	2.33	2.40	2.46	2.53
180	2.04	2.10	2.17	2.25	2.34	2.39	2.44	2.50	2.56	2.63	2.69	2.77	2.85
200	2.27	2.34	2.41	2.50	2.60	2.66	2.72	2.78	2.85	2.92	2.99	3.08	3.17
210	2.38	2.45	2.54	2.63	2.73	2.79	2.85	2.92	2.99	3.06	3.14	3.23	3.32
220	2.49	2.57	2.66	2.75	2.86	2.92	2.99	3.06	3.13	3.21	3.29	3.38	3.48
230	2.61	2.69	2.78	2.88	2.99	3.06	3.12	3.19	3.27	3.35	3.44	3.54	3.64
240	2.72	2.80	2.90	3.00	3.12	3.19	3.26	3.33	3.41	3.50	3.59	3.69	3.80
250	2.83	2.92	3.02	3.13	3.25	3.32	3.39	3.47	3.56	3.65	3.74	3.85	3.96
260	2.95	3.04	3.14	3.25	3.38	3.45	3.53	3.61	3.70	3.79	3.89	4.00	4.12
270	3.06	3.15	3.26	3.38	3.51	3.59	3.67	3.75	3.84	3.94	4.04	4.15	4.27
280	3.17	3.27	3.38	3.50	3.64	3.72	3.80	3.89	3.98	4.08	4.19	4.31	4.43
290	3.29	3.39	3.50	3.63	3.77	3.85	3.94	4.03	4.13	4.23	4.34	4.46	4.59
300	3.40	3.51	3.62	3.75	3.90	3.99	4.07	4.17	4.27	4.38	4.49	4.62	4.75
310	3.51	3.62	3.74	3.88	4.03	4.12	4.21	4.31	4.41	4.52	4.64	4.77	4.91
320	3.63	3.74	3.86	4.00	4.16	4.25	4.34	4.45	4.55	4.67	4.79	4.92	5.07
330	3.74	3.86	3.98	4.13	4.29	4.38	4.48	4.58	4.69	4.81	4.94	5.08	5.22
340	3.85	3.97	4.11	4.25	4.42	4.52	4.62	4.72	4.84	4.96	5.09	5.23	5.38
350	3.97	4.09	4.23	4.38	4.55	4.65	4.75	4.86	4.98	5.11	5.24	5.39	5.54

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	205		RAVEN - INITIAL	
Conductor	1/0 AWG ACSR - Raven												
Condition	Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1228.	1154.	1079.	1002.	925.	886.	848.	809.	771.	733.	695.	658.	622.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
75	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
100	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4
120	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
140	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7
160	0-5	0-5	0-6	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-9	0-9	0-9
180	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
200	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2
210	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4
220	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
230	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7
240	0-11	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
250	1-0	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10
260	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
270	1-1	1-2	1-3	1-4	1-6	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2
280	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4
290	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-6
300	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-5	2-6	2-8
310	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-8	2-10
320	1-7	1-8	1-9	1-11	2-1	2-2	2-3	2-4	2-5	2-7	2-9	2-10	3-0
330	1-8	1-9	1-10	2-0	2-2	2-3	2-4	2-6	2-7	2-9	2-11	3-0	3-3
340	1-9	1-10	2-0	2-2	2-4	2-5	2-6	2-8	2-9	2-11	3-1	3-3	3-5
350	1-10	2-0	2-1	2-3	2-5	2-7	2-8	2-9	2-11	3-1	3-3	3-5	3-7

Ruling Span (Feet)	205		RAVEN - INITIAL		Design Condition: 1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind Conductor Condition: 1/0 AWG AAC - Raven Initial Sag & Tension								
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1228.	1154.	1079.	1002.	925.	886.	848.	809.	771.	733.	695.	658.	622.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.36	2.43	2.51	2.61	2.71	2.77	2.83	2.90	2.97	3.05	3.13	3.22	3.31
50	.57	.59	.61	.64	.66	.68	.69	.71	.73	.74	.76	.78	.81
75	.86	.89	.92	.95	.99	1.01	1.04	1.06	1.09	1.12	1.15	1.18	1.21
100	1.15	1.19	1.23	1.27	1.32	1.35	1.38	1.42	1.45	1.49	1.53	1.57	1.61
120	1.38	1.42	1.47	1.53	1.59	1.62	1.66	1.70	1.74	1.78	1.83	1.88	1.94
140	1.61	1.66	1.72	1.78	1.85	1.89	1.94	1.98	2.03	2.08	2.14	2.20	2.26
160	1.84	1.90	1.96	2.03	2.12	2.16	2.21	2.26	2.32	2.38	2.44	2.51	2.58
180	2.07	2.13	2.21	2.29	2.38	2.43	2.49	2.55	2.61	2.68	2.75	2.82	2.91
200	2.30	2.37	2.45	2.54	2.65	2.70	2.77	2.83	2.90	2.97	3.05	3.14	3.23
210	2.41	2.49	2.57	2.67	2.78	2.84	2.90	2.97	3.05	3.12	3.21	3.30	3.39
220	2.53	2.61	2.70	2.80	2.91	2.98	3.04	3.11	3.19	3.27	3.36	3.45	3.55
230	2.64	2.73	2.82	2.93	3.04	3.11	3.18	3.26	3.34	3.42	3.51	3.61	3.71
240	2.76	2.84	2.94	3.05	3.18	3.25	3.32	3.40	3.48	3.57	3.67	3.77	3.87
250	2.87	2.96	3.07	3.18	3.31	3.38	3.46	3.54	3.63	3.72	3.82	3.92	4.04
260	2.99	3.08	3.19	3.31	3.44	3.52	3.60	3.68	3.77	3.87	3.97	4.08	4.20
270	3.10	3.20	3.31	3.43	3.57	3.65	3.73	3.82	3.92	4.02	4.12	4.24	4.36
280	3.22	3.32	3.43	3.56	3.71	3.79	3.87	3.96	4.06	4.16	4.28	4.39	4.52
290	3.33	3.44	3.56	3.69	3.84	3.92	4.01	4.10	4.21	4.31	4.43	4.55	4.68
300	3.45	3.56	3.68	3.82	3.97	4.06	4.15	4.25	4.35	4.46	4.58	4.71	4.84
310	3.56	3.67	3.80	3.94	4.10	4.19	4.29	4.39	4.50	4.61	4.73	4.87	5.00
320	3.68	3.79	3.92	4.07	4.24	4.33	4.43	4.53	4.64	4.76	4.89	5.02	5.17
330	3.79	3.91	4.05	4.20	4.37	4.46	4.56	4.67	4.79	4.91	5.04	5.18	5.33
340	3.91	4.03	4.17	4.32	4.50	4.60	4.70	4.81	4.93	5.06	5.19	5.34	5.49
350	4.02	4.15	4.29	4.45	4.63	4.73	4.84	4.95	5.08	5.21	5.35	5.49	5.65

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	220		RAVEN - FINAL	
Conductor Condition	1/0 AWG ACSR - Raven Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1192.	1118.	1043.	967.	891.	853.	815.	777.	740.	703.	667.	632.	597.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
75	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
100	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4
120	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6
140	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8
160	0-5	0-5	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10
180	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0
200	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-2	1-2	1-3
210	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-5
220	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
230	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8
240	0-11	1-0	1-1	1-1	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9
250	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
260	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-11	2-0	2-1
270	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3
280	1-3	1-4	1-5	1-6	1-8	1-8	1-9	1-10	2-0	2-1	2-2	2-3	2-5
290	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-3	2-4	2-5	2-7
300	1-5	1-6	1-7	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-6	2-7	2-9
310	1-6	1-7	1-9	1-10	2-0	2-1	2-2	2-3	2-5	2-6	2-8	2-10	2-11
320	1-7	1-8	1-10	2-0	2-2	2-3	2-4	2-5	2-7	2-8	2-10	3-0	3-2
330	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-2	3-4
340	1-10	1-11	2-1	2-2	2-5	2-6	2-7	2-9	2-10	3-0	3-2	3-4	3-7
350	1-11	2-0	2-2	2-4	2-6	2-8	2-9	2-11	3-1	3-2	3-4	3-7	3-9

Ruling Span (Feet)	220		RAVEN - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG AAC - Raven Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1192.	1118.	1043.	967.	891.	853.	815.	777.	740.	703.	667.	632.	597.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.57	2.65	2.74	2.85	2.97	3.03	3.10	3.18	3.26	3.34	3.43	3.52	3.62
50	.58	.60	.62	.65	.67	.69	.71	.72	.74	.76	.78	.80	.82
75	.87	.90	.94	.97	1.01	1.03	1.06	1.08	1.11	1.14	1.17	1.20	1.24
100	1.17	1.20	1.25	1.29	1.35	1.38	1.41	1.44	1.48	1.52	1.56	1.60	1.65
120	1.40	1.44	1.50	1.55	1.62	1.65	1.69	1.73	1.78	1.82	1.87	1.92	1.98
140	1.63	1.69	1.75	1.81	1.89	1.93	1.97	2.02	2.07	2.13	2.18	2.24	2.31
160	1.87	1.93	1.99	2.07	2.16	2.21	2.26	2.31	2.37	2.43	2.49	2.56	2.64
180	2.10	2.17	2.24	2.33	2.43	2.48	2.54	2.60	2.66	2.73	2.81	2.88	2.97
200	2.33	2.41	2.49	2.59	2.70	2.76	2.82	2.89	2.96	3.04	3.12	3.20	3.29
210	2.45	2.53	2.62	2.72	2.83	2.90	2.96	3.03	3.11	3.19	3.27	3.36	3.46
220	2.57	2.65	2.74	2.85	2.97	3.03	3.10	3.18	3.26	3.34	3.43	3.52	3.62
230	2.68	2.77	2.87	2.98	3.10	3.17	3.24	3.32	3.40	3.49	3.59	3.68	3.79
240	2.80	2.89	2.99	3.11	3.24	3.31	3.39	3.47	3.55	3.64	3.74	3.85	3.95
250	2.91	3.01	3.12	3.24	3.37	3.45	3.53	3.61	3.70	3.80	3.90	4.01	4.12
260	3.03	3.13	3.24	3.37	3.51	3.58	3.67	3.76	3.85	3.95	4.05	4.17	4.28
270	3.15	3.25	3.37	3.50	3.64	3.72	3.81	3.90	4.00	4.10	4.21	4.33	4.45
280	3.26	3.37	3.49	3.63	3.78	3.86	3.95	4.04	4.15	4.25	4.37	4.49	4.61
290	3.38	3.49	3.62	3.75	3.91	4.00	4.09	4.19	4.29	4.40	4.52	4.65	4.78
300	3.50	3.61	3.74	3.88	4.05	4.14	4.23	4.33	4.44	4.56	4.68	4.81	4.94
310	3.61	3.73	3.86	4.01	4.18	4.27	4.37	4.48	4.59	4.71	4.83	4.97	5.11
320	3.73	3.85	3.99	4.14	4.32	4.41	4.51	4.62	4.74	4.86	4.99	5.13	5.27
330	3.85	3.97	4.11	4.27	4.45	4.55	4.65	4.77	4.89	5.01	5.15	5.29	5.44
340	3.96	4.09	4.24	4.40	4.59	4.69	4.80	4.91	5.03	5.16	5.30	5.45	5.60
350	4.08	4.21	4.36	4.53	4.72	4.83	4.94	5.06	5.18	5.32	5.46	5.61	5.77

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	235		RAVEN - INITIAL	
Conductor Condition	*1/0 AWG ACSR - Raven Initial Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1154.	1080.	1006.	930.	855.	818.	781.	744.	708.	673.	639.	606.	573.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-11	1-0	1-0	1-1	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
75	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
100	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4
120	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6
140	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
160	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10
180	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	1-0	1-0	1-1
200	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4
210	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5
220	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7
230	0-10	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-9
240	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10
250	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0
260	1-1	1-2	1-3	1-4	1-6	1-6	1-7	1-8	1-9	1-10	2-0	2-1	2-2
270	1-2	1-3	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-3	2-4
280	1-3	1-4	1-5	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-5	2-6
290	1-4	1-5	1-7	1-8	1-10	1-11	2-0	2-1	2-2	2-4	2-5	2-7	2-8
300	1-5	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-4	2-6	2-7	2-9	2-11
310	1-7	1-8	1-9	1-11	2-1	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-1
320	1-8	1-9	1-11	2-0	2-3	2-4	2-5	2-6	2-8	2-10	2-11	3-1	3-3
330	1-9	1-10	2-0	2-2	2-4	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-6
340	1-10	2-0	2-2	2-4	2-6	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-8
350	2-0	2-1	2-3	2-5	2-8	2-9	2-11	3-0	3-2	3-4	3-6	3-9	3-11

Ruling Span (Feet)	235		RAVEN - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG AAC - Raven Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1154.	1080.	1006.	930.	855.	818.	781.	744.	708.	673.	639.	606.	573.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.78	2.88	2.98	3.10	3.24	3.31	3.39	3.47	3.56	3.65	3.74	3.85	3.95
50	.59	.61	.63	.66	.69	.70	.72	.74	.76	.78	.80	.82	.84
75	.89	.92	.95	.99	1.03	1.06	1.08	1.11	1.13	1.16	1.19	1.23	1.26
100	1.18	1.22	1.27	1.32	1.38	1.41	1.44	1.48	1.51	1.55	1.59	1.64	1.68
120	1.42	1.47	1.52	1.58	1.65	1.69	1.73	1.77	1.82	1.86	1.91	1.96	2.02
140	1.66	1.71	1.78	1.85	1.93	1.97	2.02	2.07	2.12	2.17	2.23	2.29	2.35
160	1.90	1.96	2.03	2.11	2.20	2.25	2.31	2.36	2.42	2.48	2.55	2.62	2.69
180	2.13	2.20	2.29	2.38	2.48	2.53	2.59	2.66	2.72	2.79	2.87	2.95	3.03
200	2.37	2.45	2.54	2.64	2.75	2.82	2.88	2.95	3.03	3.10	3.19	3.27	3.36
210	2.49	2.57	2.67	2.77	2.89	2.96	3.03	3.10	3.18	3.26	3.35	3.44	3.53
220	2.61	2.69	2.79	2.90	3.03	3.10	3.17	3.25	3.33	3.41	3.50	3.60	3.70
230	2.73	2.82	2.92	3.04	3.17	3.24	3.31	3.39	3.48	3.57	3.66	3.76	3.87
240	2.84	2.94	3.05	3.17	3.30	3.38	3.46	3.54	3.63	3.72	3.82	3.93	4.04
250	2.96	3.06	3.17	3.30	3.44	3.52	3.60	3.69	3.78	3.88	3.98	4.09	4.20
260	3.08	3.18	3.30	3.43	3.58	3.66	3.75	3.84	3.93	4.03	4.14	4.25	4.37
270	3.20	3.31	3.43	3.56	3.72	3.80	3.89	3.98	4.08	4.19	4.30	4.42	4.54
280	3.32	3.43	3.56	3.70	3.85	3.94	4.03	4.13	4.24	4.35	4.46	4.58	4.71
290	3.44	3.55	3.68	3.83	3.99	4.08	4.18	4.28	4.39	4.50	4.62	4.75	4.88
300	3.56	3.67	3.81	3.96	4.13	4.22	4.32	4.43	4.54	4.66	4.78	4.91	5.04
310	3.67	3.80	3.94	4.09	4.27	4.36	4.47	4.57	4.69	4.81	4.94	5.07	5.21
320	3.79	3.92	4.06	4.22	4.41	4.51	4.61	4.72	4.84	4.97	5.10	5.24	5.38
330	3.91	4.04	4.19	4.36	4.54	4.65	4.75	4.87	4.99	5.12	5.26	5.40	5.55
340	4.03	4.16	4.32	4.49	4.68	4.79	4.90	5.02	5.14	5.28	5.42	5.56	5.72
350	4.15	4.29	4.44	4.62	4.82	4.93	5.04	5.17	5.29	5.43	5.58	5.73	5.89

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	250		RAVEN - INITIAL	
Conductor Condition	*1/0 AWG ACSR - Raven Initial Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1114.	1041.	966.	892.	819.	783.	747.	712.	677.	644.	611.	580.	551.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
75	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
100	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-4
120	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6
140	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
160	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-10	0-10	0-11
180	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-10	0-11	0-11	1-0	1-1	1-1
200	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-3	1-3	1-4
210	0-9	0-10	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-6
220	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-3	1-4	1-5	1-6	1-7	1-8
230	0-11	1-0	1-0	1-1	1-3	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9
240	1-0	1-1	1-1	1-3	1-4	1-5	1-5	1-6	1-7	1-8	1-9	1-10	1-11
250	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
260	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3
270	1-3	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4	2-5
280	1-4	1-5	1-6	1-8	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-6	2-7
290	1-5	1-6	1-7	1-9	1-11	2-0	2-1	2-2	2-4	2-5	2-6	2-8	2-10
300	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-4	2-5	2-7	2-9	2-10	3-0
310	1-7	1-9	1-10	2-0	2-2	2-3	2-4	2-6	2-7	2-9	2-11	3-1	3-2
320	1-8	1-10	2-0	2-1	2-4	2-5	2-6	2-8	2-9	2-11	3-1	3-3	3-5
330	1-10	1-11	2-1	2-3	2-5	2-7	2-8	2-10	2-11	3-1	3-3	3-5	3-8
340	1-11	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6	3-8	3-10
350	2-0	2-2	2-4	2-6	2-9	2-11	3-0	3-2	3-4	3-6	3-8	3-10	4-1

Ruling Span (Feet)	250		RAVEN - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG AAC - Raven Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1114.	1041.	966.	892.	819.	783.	747.	712.	677.	644.	611.	580.	551.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.02	3.12	3.24	3.37	3.52	3.60	3.68	3.77	3.87	3.97	4.07	4.18	4.29
50	.80	.82	.85	.87	.70	.72	.74	.75	.77	.79	.81	.84	.86
75	.90	.94	.97	1.01	1.06	1.08	1.11	1.13	1.16	1.19	1.22	1.25	1.29
100	1.21	1.25	1.30	1.35	1.41	1.44	1.47	1.51	1.55	1.59	1.63	1.67	1.72
120	1.45	1.50	1.55	1.62	1.69	1.73	1.77	1.81	1.86	1.90	1.95	2.01	2.06
140	1.69	1.75	1.81	1.89	1.97	2.02	2.06	2.11	2.17	2.22	2.28	2.34	2.40
160	1.93	2.00	2.07	2.16	2.25	2.30	2.36	2.42	2.48	2.54	2.61	2.67	2.75
180	2.17	2.25	2.33	2.43	2.53	2.59	2.65	2.72	2.78	2.86	2.93	3.01	3.09
200	2.41	2.50	2.59	2.70	2.81	2.88	2.95	3.02	3.09	3.17	3.26	3.34	3.43
210	2.53	2.62	2.72	2.83	2.95	3.02	3.09	3.17	3.25	3.33	3.42	3.51	3.60
220	2.65	2.75	2.85	2.97	3.10	3.17	3.24	3.32	3.40	3.49	3.58	3.68	3.77
230	2.77	2.87	2.98	3.10	3.24	3.31	3.39	3.47	3.56	3.65	3.75	3.84	3.95
240	2.89	3.00	3.11	3.23	3.38	3.45	3.54	3.62	3.71	3.81	3.91	4.01	4.12
250	3.02	3.12	3.24	3.37	3.52	3.60	3.68	3.77	3.87	3.97	4.07	4.18	4.29
260	3.14	3.25	3.37	3.50	3.66	3.74	3.83	3.92	4.02	4.13	4.23	4.35	4.46
270	3.26	3.37	3.50	3.64	3.80	3.89	3.98	4.08	4.18	4.28	4.40	4.51	4.63
280	3.38	3.49	3.63	3.77	3.94	4.03	4.13	4.23	4.33	4.44	4.56	4.68	4.80
290	3.50	3.62	3.76	3.91	4.08	4.17	4.27	4.38	4.49	4.60	4.72	4.85	4.98
300	3.62	3.74	3.89	4.04	4.22	4.32	4.42	4.53	4.64	4.76	4.88	5.01	5.15
310	3.74	3.87	4.01	4.18	4.36	4.46	4.57	4.68	4.80	4.92	5.05	5.18	5.32
320	3.86	3.99	4.14	4.31	4.50	4.61	4.72	4.83	4.95	5.08	5.21	5.35	5.49
330	3.98	4.12	4.27	4.45	4.64	4.75	4.86	4.98	5.11	5.24	5.37	5.52	5.66
340	4.10	4.24	4.40	4.58	4.78	4.89	5.01	5.13	5.26	5.40	5.54	5.68	5.83
350	4.22	4.37	4.53	4.72	4.93	5.04	5.16	5.28	5.42	5.55	5.70	5.85	6.01

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	145		OXLIP - INITIAL	
Conductor Condition	4/0 AWG AAC - Oxlip Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1226.	1089.	951.	812.	679.	616.	558.	505.	458.	417.	382.	351.	326.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-6	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8
50	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6
100	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-10
120	0-4	0-4	0-5	0-6	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2
140	0-5	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6
160	0-7	0-8	0-9	0-10	1-0	1-1	1-2	1-4	1-5	1-7	1-9	1-10	2-0
180	0-8	0-9	0-11	1-0	1-3	1-4	1-6	1-8	1-10	2-0	2-2	2-4	2-6
200	0-10	0-11	1-1	1-3	1-6	1-8	1-10	2-0	2-3	2-5	2-8	2-10	3-1
210	0-11	1-1	1-2	1-5	1-8	1-10	2-0	2-3	2-5	2-8	2-11	3-2	3-5
220	1-0	1-2	1-4	1-6	1-10	2-0	2-2	2-5	2-8	2-11	3-2	3-6	3-9
230	1-1	1-3	1-5	1-8	2-0	2-2	2-5	2-8	2-11	3-2	3-6	3-9	4-1
240	1-3	1-4	1-7	1-10	2-2	2-4	2-7	2-10	3-2	3-6	3-10	4-1	4-5
250	1-4	1-6	1-8	1-11	2-4	2-7	2-10	3-1	3-5	3-9	4-1	4-6	4-10
260	1-5	1-7	1-10	2-1	2-6	2-9	3-1	3-4	3-9	4-1	4-5	4-10	5-2
270	1-6	1-8	1-11	2-3	2-9	3-0	3-3	3-8	4-0	4-5	4-9	5-2	5-7
280	1-8	1-10	2-1	2-5	2-11	3-2	3-6	3-11	4-4	4-9	5-2	5-7	6-0
290	1-9	2-0	2-3	2-7	3-1	3-5	3-9	4-2	4-7	5-1	5-6	6-0	6-6
300	1-10	2-1	2-5	2-10	3-4	3-8	4-1	4-6	4-11	5-5	5-11	6-5	6-11
310	2-0	2-3	2-7	3-0	3-7	3-11	4-4	4-9	5-3	5-9	6-4	6-10	7-4
320	2-1	2-5	2-9	3-2	3-9	4-2	4-7	5-1	5-7	6-2	6-9	7-3	7-10
330	2-3	2-6	2-11	3-4	4-0	4-5	4-11	5-5	5-11	6-6	7-2	7-9	8-4
340	2-5	2-8	3-1	3-7	4-3	4-8	5-2	5-9	6-4	6-11	7-7	8-3	8-10
350	2-6	2-10	3-3	3-9	4-6	5-0	5-6	6-1	6-8	7-4	8-0	8-8	9-5

Ruling Span (Feet)	145		OXLIP - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1226.	1089.	951.	812.	679.	616.	558.	505.	458.	417.	382.	351.	326.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	1.95	2.07	2.22	2.40	2.62	2.75	2.89	3.04	3.19	3.35	3.50	3.65	3.79
50	.67	.71	.76	.83	.90	.95	1.00	1.05	1.10	1.15	1.21	1.26	1.31
75	1.01	1.07	1.15	1.24	1.36	1.42	1.50	1.57	1.65	1.73	1.81	1.89	1.96
100	1.35	1.43	1.53	1.65	1.81	1.90	2.00	2.10	2.20	2.31	2.41	2.51	2.61
120	1.62	1.71	1.83	1.98	2.17	2.28	2.39	2.52	2.64	2.77	2.90	3.02	3.13
140	1.88	2.00	2.14	2.32	2.53	2.66	2.79	2.94	3.08	3.23	3.38	3.52	3.66
160	2.15	2.28	2.45	2.65	2.89	3.04	3.19	3.36	3.52	3.69	3.86	4.02	4.18
180	2.42	2.57	2.75	2.98	3.26	3.42	3.59	3.78	3.96	4.16	4.34	4.53	4.70
200	2.69	2.86	3.06	3.31	3.62	3.80	3.99	4.19	4.41	4.62	4.83	5.03	5.22
210	2.83	3.00	3.21	3.47	3.80	3.99	4.19	4.40	4.63	4.85	5.07	5.28	5.49
220	2.96	3.14	3.36	3.64	3.98	4.18	4.39	4.61	4.85	5.08	5.31	5.53	5.75
230	3.10	3.28	3.52	3.80	4.16	4.37	4.59	4.82	5.07	5.31	5.55	5.78	6.01
240	3.23	3.43	3.67	3.97	4.34	4.56	4.79	5.03	5.29	5.54	5.79	6.04	6.27
250	3.37	3.57	3.82	4.13	4.52	4.75	4.99	5.24	5.51	5.77	6.03	6.29	6.53
260	3.50	3.71	3.97	4.30	4.70	4.94	5.19	5.45	5.73	6.00	6.28	6.54	6.79
270	3.64	3.86	4.13	4.47	4.88	5.13	5.39	5.66	5.95	6.23	6.52	6.79	7.05
280	3.77	4.00	4.28	4.63	5.07	5.32	5.59	5.87	6.17	6.47	6.76	7.04	7.31
290	3.90	4.14	4.43	4.80	5.25	5.51	5.79	6.08	6.39	6.70	7.00	7.29	7.58
300	4.04	4.28	4.59	4.96	5.43	5.70	5.99	6.29	6.61	6.93	7.24	7.55	7.84
310	4.17	4.43	4.74	5.13	5.61	5.89	6.19	6.50	6.83	7.16	7.48	7.80	8.10
320	4.31	4.57	4.89	5.29	5.79	6.08	6.39	6.71	7.05	7.39	7.72	8.05	8.36
330	4.44	4.71	5.04	5.46	5.97	6.27	6.58	6.92	7.27	7.62	7.97	8.30	8.62
340	4.58	4.86	5.20	5.62	6.15	6.46	6.78	7.13	7.49	7.85	8.21	8.55	8.88
350	4.71	5.00	5.35	5.79	6.33	6.65	6.98	7.34	7.71	8.08	8.45	8.80	9.14

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	160		OXLIP - INITIAL	
Conductor Condition	4/0 AWG AAC - Oxlip Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1180.	1045.	908.	774.	649.	591.	539.	492.	450.	414.	383.	356.	333.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10	1-11
50	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6
100	0-3	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
120	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-1
140	0-5	0-6	0-7	0-8	0-10	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6
160	0-7	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-5	1-7	1-8	1-10	1-11
180	0-9	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-10	2-0	2-2	2-4	2-5
200	0-11	1-0	1-2	1-4	1-7	1-9	1-11	2-1	2-3	2-5	2-8	2-10	3-0
210	1-0	1-1	1-3	1-5	1-9	1-11	2-1	2-3	2-6	2-8	2-11	3-1	3-4
220	1-1	1-2	1-4	1-7	1-11	2-1	2-3	2-6	2-9	2-11	3-2	3-5	3-8
230	1-2	1-4	1-6	1-9	2-1	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0
240	1-3	1-5	1-7	1-11	2-3	2-6	2-8	2-11	3-3	3-6	3-9	4-1	4-4
250	1-4	1-6	1-9	2-1	2-5	2-8	2-11	3-2	3-6	3-9	4-1	4-5	4-8
260	1-6	1-8	1-11	2-3	2-8	2-11	3-2	3-5	3-9	4-1	4-5	4-9	5-1
270	1-7	1-9	2-0	2-5	2-10	3-1	3-5	3-9	4-1	4-5	4-9	5-2	5-6
280	1-8	1-11	2-2	2-7	3-1	3-4	3-8	4-0	4-4	4-9	5-2	5-6	5-11
290	1-10	2-0	2-4	2-9	3-3	3-7	3-11	4-3	4-8	5-1	5-6	5-11	6-4
300	1-11	2-2	2-6	2-11	3-6	3-10	4-2	4-7	5-0	5-5	5-11	6-4	6-9
310	2-1	2-4	2-8	3-2	3-9	4-1	4-6	4-11	5-4	5-10	6-3	6-9	7-3
320	2-2	2-6	2-10	3-4	4-0	4-4	4-9	5-3	5-8	6-2	6-8	7-2	7-8
330	2-4	2-8	3-0	3-6	4-3	4-7	5-1	5-7	6-1	6-7	7-1	7-8	8-2
340	2-6	2-9	3-2	3-9	4-6	4-11	5-4	5-11	6-5	7-0	7-7	8-1	8-8
350	2-7	2-11	3-5	4-0	4-9	5-2	5-8	6-3	6-10	7-5	8-0	8-7	9-2

Ruling Span (Feet)	160		OXLIP - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1180.	1045.	908.	774.	649.	591.	539.	492.	450.	414.	383.	356.	333.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.20	2.33	2.50	2.71	2.96	3.10	3.25	3.40	3.55	3.71	3.85	4.00	4.13
50	.69	.73	.78	.85	.93	.97	1.02	1.06	1.11	1.16	1.20	1.25	1.29
75	1.03	1.09	1.17	1.27	1.39	1.45	1.52	1.59	1.67	1.74	1.81	1.87	1.94
100	1.37	1.46	1.56	1.69	1.85	1.94	2.03	2.13	2.22	2.32	2.41	2.50	2.58
120	1.65	1.75	1.88	2.03	2.22	2.33	2.44	2.55	2.67	2.78	2.89	3.00	3.10
140	1.92	2.04	2.19	2.37	2.59	2.71	2.84	2.98	3.11	3.24	3.37	3.50	3.62
160	2.20	2.33	2.50	2.71	2.96	3.10	3.25	3.40	3.55	3.71	3.85	4.00	4.13
180	2.47	2.63	2.82	3.05	3.33	3.49	3.66	3.83	4.00	4.17	4.34	4.50	4.65
200	2.74	2.92	3.13	3.39	3.70	3.88	4.06	4.25	4.44	4.63	4.82	5.00	5.17
210	2.88	3.06	3.28	3.56	3.89	4.07	4.26	4.46	4.67	4.86	5.06	5.25	5.42
220	3.02	3.21	3.44	3.73	4.07	4.26	4.47	4.68	4.89	5.10	5.30	5.50	5.68
230	3.16	3.35	3.60	3.90	4.26	4.46	4.67	4.89	5.11	5.33	5.54	5.75	5.94
240	3.29	3.50	3.75	4.07	4.44	4.65	4.87	5.10	5.33	5.56	5.78	5.99	6.20
250	3.43	3.65	3.91	4.24	4.63	4.85	5.08	5.31	5.55	5.79	6.02	6.24	6.46
260	3.57	3.79	4.07	4.41	4.81	5.04	5.28	5.53	5.78	6.02	6.26	6.49	6.72
270	3.70	3.94	4.22	4.57	5.00	5.23	5.48	5.74	6.00	6.25	6.50	6.74	6.97
280	3.84	4.08	4.38	4.74	5.18	5.43	5.69	5.95	6.22	6.49	6.75	6.99	7.23
290	3.98	4.23	4.54	4.91	5.37	5.62	5.89	6.16	6.44	6.72	6.99	7.24	7.49
300	4.12	4.38	4.69	5.08	5.55	5.82	6.09	6.38	6.66	6.95	7.23	7.49	7.75
310	4.25	4.52	4.85	5.25	5.74	6.01	6.30	6.59	6.89	7.18	7.47	7.74	8.01
320	4.39	4.67	5.01	5.42	5.92	6.20	6.50	6.80	7.11	7.41	7.71	7.99	8.27
330	4.53	4.81	5.16	5.59	6.11	6.40	6.70	7.02	7.33	7.64	7.95	8.24	8.53
340	4.66	4.96	5.32	5.76	6.29	6.59	6.90	7.23	7.55	7.88	8.19	8.49	8.78
350	4.80	5.10	5.48	5.93	6.48	6.79	7.11	7.44	7.78	8.11	8.43	8.74	9.04

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	175		OXLIP - INITIAL	
Conductor Condition	4/0 AWG AAC - Oxlip Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1131.	997.	863.	736.	620.	568.	521.	480.	444.	412.	384.	360.	339.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-9	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-2	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-5
100	0-3	0-3	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
120	0-4	0-5	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1
140	0-6	0-6	0-7	0-8	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
160	0-7	0-8	0-9	0-11	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11
180	0-9	0-10	1-0	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-3	2-5
200	0-11	1-0	1-2	1-5	1-8	1-9	1-11	2-1	2-3	2-5	2-8	2-10	3-0
210	1-0	1-2	1-4	1-6	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-3
220	1-1	1-3	1-5	1-8	2-0	2-2	2-4	2-7	2-9	3-0	3-2	3-5	3-7
230	1-2	1-4	1-7	1-10	2-2	2-4	2-7	2-9	3-0	3-3	3-6	3-8	3-11
240	1-4	1-6	1-8	2-0	2-4	2-7	2-9	3-0	3-3	3-6	3-9	4-0	4-3
250	1-5	1-7	1-10	2-2	2-7	2-9	3-0	3-3	3-7	3-10	4-1	4-4	4-7
260	1-6	1-9	2-0	2-4	2-9	3-0	3-3	3-6	3-10	4-1	4-5	4-8	5-0
270	1-8	1-10	2-2	2-6	3-0	3-3	3-6	3-10	4-2	4-5	4-9	5-1	5-5
280	1-9	2-0	2-4	2-8	3-2	3-6	3-9	4-1	4-5	4-9	5-1	5-5	5-9
290	1-11	2-2	2-6	2-11	3-5	3-9	4-1	4-5	4-9	5-1	5-6	5-10	6-2
300	2-0	2-3	2-8	3-1	3-8	4-0	4-4	4-8	5-1	5-6	5-10	6-3	6-8
310	2-2	2-5	2-10	3-3	3-11	4-3	4-7	5-0	5-5	5-10	6-3	6-8	7-1
320	2-3	2-7	3-0	3-6	4-2	4-6	4-11	5-4	5-9	6-3	6-8	7-1	7-6
330	2-5	2-9	3-2	3-9	4-5	4-10	5-3	5-8	6-2	6-7	7-1	7-7	8-0
340	2-7	2-11	3-4	3-11	4-8	5-1	5-7	6-0	6-6	7-0	7-6	8-0	8-6
350	2-9	3-1	3-7	4-2	4-11	5-5	5-11	6-5	6-11	7-5	8-0	8-6	9-0

Ruling Span (Feet)	175		OXLIP - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1131.	997.	863.	736.	620.	568.	521.	480.	444.	412.	384.	360.	339.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.45	2.61	2.81	3.04	3.31	3.46	3.61	3.77	3.92	4.06	4.21	4.35	4.48
50	.70	.75	.80	.87	.95	.99	1.03	1.08	1.12	1.16	1.20	1.24	1.28
75	1.05	1.12	1.20	1.30	1.42	1.48	1.55	1.61	1.68	1.74	1.80	1.86	1.92
100	1.40	1.49	1.60	1.74	1.89	1.98	2.06	2.15	2.24	2.32	2.40	2.48	2.56
120	1.68	1.79	1.92	2.09	2.27	2.37	2.48	2.58	2.69	2.79	2.89	2.98	3.07
140	1.96	2.09	2.25	2.43	2.65	2.77	2.89	3.01	3.13	3.25	3.37	3.48	3.58
160	2.24	2.39	2.57	2.78	3.03	3.16	3.30	3.44	3.58	3.72	3.85	3.97	4.09
180	2.52	2.69	2.89	3.13	3.41	3.56	3.72	3.87	4.03	4.18	4.33	4.47	4.61
200	2.80	2.99	3.21	3.48	3.79	3.96	4.13	4.30	4.48	4.65	4.81	4.97	5.12
210	2.94	3.14	3.37	3.65	3.98	4.15	4.33	4.52	4.70	4.88	5.05	5.22	5.37
220	3.08	3.28	3.53	3.82	4.17	4.35	4.54	4.73	4.92	5.11	5.29	5.46	5.63
230	3.22	3.43	3.69	4.00	4.36	4.55	4.75	4.95	5.15	5.34	5.53	5.71	5.89
240	3.36	3.58	3.85	4.17	4.54	4.75	4.95	5.16	5.37	5.58	5.77	5.96	6.14
250	3.50	3.73	4.01	4.34	4.73	4.94	5.16	5.38	5.60	5.81	6.01	6.21	6.40
260	3.64	3.88	4.17	4.52	4.92	5.14	5.37	5.59	5.82	6.04	6.25	6.46	6.65
270	3.78	4.03	4.33	4.69	5.11	5.34	5.57	5.81	6.04	6.27	6.49	6.71	6.91
280	3.92	4.18	4.49	4.87	5.30	5.54	5.78	6.02	6.27	6.50	6.73	6.95	7.17
290	4.06	4.33	4.65	5.04	5.49	5.74	5.99	6.24	6.49	6.74	6.97	7.20	7.42
300	4.20	4.48	4.81	5.21	5.68	5.93	6.19	6.46	6.72	6.97	7.22	7.45	7.68
310	4.34	4.63	4.97	5.39	5.87	6.13	6.40	6.67	6.94	7.20	7.46	7.70	7.93
320	4.49	4.78	5.13	5.56	6.06	6.33	6.61	6.89	7.16	7.43	7.70	7.95	8.19
330	4.63	4.93	5.29	5.74	6.25	6.53	6.81	7.10	7.39	7.67	7.94	8.20	8.45
340	4.77	5.08	5.45	5.91	6.44	6.72	7.02	7.32	7.61	7.90	8.18	8.45	8.70
350	4.91	5.23	5.61	6.08	6.63	6.92	7.23	7.53	7.83	8.13	8.42	8.69	8.96

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	190		OXLIP - INITIAL	
Conductor Condition	4/0 AWG AAC - Oxlip Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1078.	946.	818.	698.	593.	547.	506.	470.	438.	410.	385.	364.	345.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-10	1-0	1-2	1-4	1-7	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-8
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
100	0-3	0-4	0-4	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
120	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
140	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5
160	0-8	0-9	0-10	0-11	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-9	1-11
180	0-9	0-11	1-0	1-2	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5
200	1-0	1-1	1-3	1-6	1-9	1-10	2-0	2-2	2-4	2-6	2-7	2-9	2-11
210	1-1	1-2	1-5	1-7	1-11	2-1	2-2	2-4	2-7	2-9	2-11	3-1	3-3
220	1-2	1-4	1-6	1-9	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-4	3-6
230	1-3	1-5	1-8	1-11	2-3	2-5	2-8	2-10	3-1	3-3	3-5	3-8	3-10
240	1-4	1-7	1-9	2-1	2-5	2-8	2-10	3-1	3-4	3-6	3-9	4-0	4-2
250	1-6	1-8	1-11	2-3	2-8	2-11	3-1	3-4	3-7	3-10	4-1	4-4	4-7
260	1-7	1-10	2-1	2-5	2-10	3-1	3-4	3-7	3-11	4-2	4-5	4-8	4-11
270	1-9	1-11	2-3	2-8	3-1	3-4	3-7	3-11	4-2	4-6	4-9	5-0	5-4
280	1-10	2-1	2-5	2-10	3-4	3-7	3-11	4-2	4-6	4-10	5-1	5-5	5-8
290	2-0	2-3	2-7	3-0	3-7	3-10	4-2	4-6	4-10	5-2	5-6	5-9	6-1
300	2-1	2-5	2-9	3-3	3-10	4-2	4-6	4-10	5-2	5-6	5-10	6-2	6-6
310	2-3	2-7	3-0	3-6	4-1	4-5	4-9	5-2	5-6	5-10	6-3	6-7	7-0
320	2-5	2-9	3-2	3-8	4-4	4-8	5-1	5-6	5-10	6-3	6-8	7-0	7-5
330	2-7	2-11	3-4	3-11	4-7	5-0	5-5	5-10	6-3	6-8	7-1	7-6	7-11
340	2-8	3-1	3-7	4-2	4-11	5-4	5-9	6-2	6-7	7-1	7-6	7-11	8-4
350	2-10	3-3	3-9	4-5	5-2	5-7	6-1	6-6	7-0	7-6	7-11	8-5	8-10

Ruling Span (Feet)	190		OXLIP - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1078.	946.	818.	698.	593.	547.	506.	470.	438.	410.	385.	364.	345.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.73	2.91	3.13	3.39	3.68	3.83	3.98	4.13	4.28	4.42	4.56	4.70	4.82
50	.72	.77	.82	.89	.97	1.01	1.05	1.09	1.13	1.18	1.20	1.24	1.27
75	1.08	1.15	1.24	1.34	1.45	1.51	1.57	1.63	1.69	1.75	1.80	1.85	1.90
100	1.44	1.53	1.65	1.78	1.94	2.02	2.10	2.17	2.25	2.33	2.40	2.47	2.54
120	1.72	1.84	1.98	2.14	2.32	2.42	2.51	2.61	2.70	2.79	2.88	2.97	3.05
140	2.01	2.15	2.31	2.50	2.71	2.82	2.93	3.04	3.15	3.26	3.36	3.46	3.55
160	2.30	2.45	2.64	2.85	3.10	3.22	3.35	3.48	3.60	3.73	3.84	3.95	4.06
180	2.58	2.76	2.97	3.21	3.48	3.63	3.77	3.91	4.06	4.19	4.32	4.45	4.57
200	2.87	3.06	3.30	3.57	3.87	4.03	4.19	4.35	4.51	4.66	4.80	4.94	5.08
210	3.01	3.22	3.46	3.75	4.07	4.23	4.40	4.57	4.73	4.89	5.04	5.19	5.33
220	3.16	3.37	3.63	3.92	4.26	4.43	4.61	4.78	4.96	5.12	5.28	5.44	5.58
230	3.30	3.52	3.79	4.10	4.45	4.64	4.82	5.00	5.18	5.36	5.52	5.68	5.84
240	3.44	3.68	3.96	4.28	4.65	4.84	5.03	5.22	5.41	5.59	5.76	5.93	6.09
250	3.59	3.83	4.12	4.46	4.84	5.04	5.24	5.44	5.63	5.82	6.00	6.18	6.35
260	3.73	3.98	4.29	4.64	5.03	5.24	5.45	5.66	5.86	6.05	6.24	6.43	6.60
270	3.88	4.14	4.45	4.82	5.23	5.44	5.66	5.87	6.08	6.29	6.48	6.67	6.85
280	4.02	4.29	4.61	4.99	5.42	5.64	5.87	6.09	6.31	6.52	6.72	6.92	7.11
290	4.16	4.44	4.78	5.17	5.61	5.84	6.08	6.31	6.53	6.75	6.97	7.17	7.36
300	4.31	4.60	4.94	5.35	5.81	6.05	6.29	6.53	6.76	6.99	7.21	7.42	7.62
310	4.45	4.75	5.11	5.53	6.00	6.25	6.50	6.74	6.98	7.22	7.45	7.66	7.87
320	4.59	4.90	5.27	5.71	6.20	6.45	6.71	6.96	7.21	7.45	7.69	7.91	8.12
330	4.74	5.06	5.44	5.89	6.39	6.65	6.92	7.18	7.44	7.69	7.93	8.16	8.38
340	4.88	5.21	5.60	6.07	6.58	6.85	7.13	7.40	7.66	7.92	8.17	8.40	8.63
350	5.02	5.36	5.77	6.24	6.78	7.05	7.33	7.61	7.89	8.15	8.41	8.65	8.89

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	205		OXLIP - INITIAL	
Conductor Condition	4/0 AWG AAC - Oxlip Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1023.	895.	773.	663.	569.	529.	493.	461.	433.	408.	386.	367.	350.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-1	1-2	1-5	1-7	1-11	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-0
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
100	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9
120	0-5	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1
140	0-6	0-7	0-8	0-9	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-4	1-5
160	0-8	0-9	0-10	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
180	0-10	0-11	1-1	1-3	1-5	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-4
200	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-2	2-4	2-6	2-7	2-9	2-11
210	1-1	1-3	1-6	1-8	2-0	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2
220	1-3	1-5	1-7	1-10	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
230	1-4	1-6	1-9	2-0	2-4	2-6	2-9	2-11	3-1	3-3	3-5	3-7	3-10
240	1-5	1-8	1-11	2-2	2-7	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2
250	1-7	1-9	2-1	2-5	2-9	3-0	3-2	3-5	3-8	3-10	4-1	4-3	4-6
260	1-8	1-11	2-3	2-7	3-0	3-3	3-5	3-8	3-11	4-2	4-5	4-7	4-10
270	1-10	2-1	2-5	2-9	3-3	3-6	3-9	4-0	4-3	4-6	4-9	5-0	5-3
280	1-11	2-3	2-7	3-0	3-6	3-9	4-0	4-3	4-7	4-10	5-1	5-4	5-7
290	2-1	2-5	2-9	3-2	3-9	4-0	4-3	4-7	4-10	5-2	5-5	5-9	6-0
300	2-3	2-6	2-11	3-5	4-0	4-3	4-7	4-11	5-3	5-6	5-10	6-2	6-5
310	2-5	2-9	3-2	3-8	4-3	4-7	4-11	5-3	5-7	5-11	6-3	6-7	6-10
320	2-6	2-11	3-4	3-11	4-6	4-10	5-2	5-7	5-11	6-3	6-8	7-0	7-4
330	2-8	3-1	3-6	4-1	4-10	5-2	5-6	5-11	6-4	6-8	7-1	7-5	7-9
340	2-10	3-3	3-9	4-4	5-1	5-6	5-10	6-3	6-8	7-1	7-6	7-10	8-3
350	3-0	3-5	4-0	4-8	5-5	5-10	6-3	6-8	7-1	7-6	7-11	8-4	8-9

Ruling Span (Feet)	205		OXLIP - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1023.	895.	773.	663.	569.	529.	493.	461.	433.	408.	386.	367.	350.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.02	3.23	3.48	3.75	4.05	4.20	4.35	4.50	4.64	4.78	4.92	5.05	5.17
50	.74	.79	.85	.92	.99	1.03	1.06	1.10	1.13	1.17	1.20	1.23	1.26
75	1.11	1.18	1.27	1.37	1.48	1.54	1.59	1.65	1.70	1.75	1.80	1.85	1.89
100	1.47	1.58	1.70	1.83	1.98	2.05	2.12	2.20	2.27	2.33	2.40	2.46	2.52
120	1.77	1.89	2.03	2.20	2.37	2.46	2.55	2.63	2.72	2.80	2.88	2.95	3.02
140	2.06	2.21	2.37	2.56	2.77	2.87	2.97	3.07	3.17	3.27	3.36	3.45	3.53
160	2.36	2.52	2.71	2.93	3.16	3.28	3.40	3.51	3.63	3.73	3.84	3.94	4.03
180	2.65	2.84	3.05	3.30	3.56	3.69	3.82	3.95	4.08	4.20	4.32	4.43	4.54
200	2.95	3.15	3.39	3.66	3.95	4.10	4.25	4.39	4.53	4.67	4.80	4.92	5.04
210	3.09	3.31	3.56	3.84	4.15	4.31	4.46	4.61	4.76	4.90	5.04	5.17	5.29
220	3.24	3.47	3.73	4.03	4.35	4.51	4.67	4.83	4.98	5.13	5.28	5.41	5.55
230	3.39	3.62	3.90	4.21	4.55	4.72	4.88	5.05	5.21	5.37	5.52	5.66	5.80
240	3.54	3.78	4.07	4.39	4.74	4.92	5.10	5.27	5.44	5.60	5.76	5.91	6.05
250	3.68	3.94	4.24	4.58	4.94	5.13	5.31	5.49	5.66	5.83	6.00	6.15	6.30
260	3.83	4.10	4.41	4.76	5.14	5.33	5.52	5.71	5.89	6.07	6.24	6.40	6.55
270	3.98	4.25	4.58	4.94	5.34	5.54	5.73	5.93	6.12	6.30	6.48	6.65	6.81
280	4.13	4.41	4.75	5.13	5.53	5.74	5.95	6.15	6.34	6.53	6.72	6.89	7.06
290	4.27	4.57	4.92	5.31	5.73	5.95	6.16	6.37	6.57	6.77	6.96	7.14	7.31
300	4.42	4.73	5.09	5.49	5.93	6.15	6.37	6.59	6.80	7.00	7.20	7.38	7.56
310	4.57	4.88	5.26	5.68	6.13	6.36	6.58	6.81	7.02	7.23	7.44	7.63	7.82
320	4.72	5.04	5.42	5.86	6.32	6.56	6.80	7.03	7.25	7.47	7.68	7.88	8.07
330	4.86	5.20	5.59	6.04	6.52	6.77	7.01	7.25	7.48	7.70	7.92	8.12	8.32
340	5.01	5.36	5.76	6.22	6.72	6.97	7.22	7.47	7.71	7.94	8.16	8.37	8.57
350	5.16	5.51	5.93	6.41	6.92	7.18	7.43	7.69	7.93	8.17	8.40	8.62	8.83

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	220		OXLIP - INITIAL	
Conductor Condition	4/0 AWG AAC - Oxlip Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	966.	844.	730.	631.	548.	512.	481.	453.	429.	407.	387.	370.	354.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-3	1-6	1-8	1-11	2-3	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-5
50	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-2	0-2	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
100	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-9	0-9
120	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-0	1-1
140	0-7	0-7	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-4	1-5
160	0-8	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
180	0-10	1-0	1-2	1-4	1-6	1-7	1-9	1-10	1-11	2-0	2-1	2-3	2-4
200	1-1	1-3	1-5	1-7	1-10	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10
210	1-2	1-4	1-7	1-9	2-1	2-2	2-4	2-6	2-7	2-9	2-10	3-0	3-2
220	1-3	1-6	1-8	1-11	2-3	2-5	2-6	2-8	2-10	3-0	3-2	3-4	3-5
230	1-5	1-7	1-10	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
240	1-6	1-9	2-0	2-4	2-8	2-10	3-0	3-2	3-5	3-7	3-9	3-11	4-1
250	1-8	1-11	2-2	2-6	2-11	3-1	3-3	3-6	3-8	3-10	4-1	4-3	4-5
260	1-9	2-0	2-4	2-8	3-1	3-4	3-6	3-9	4-0	4-2	4-5	4-7	4-9
270	1-11	2-2	2-6	2-11	3-4	3-7	3-10	4-0	4-3	4-6	4-9	4-11	5-2
280	2-1	2-4	2-9	3-2	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4	5-7
290	2-2	2-6	2-11	3-4	3-10	4-1	4-5	4-8	4-11	5-2	5-5	5-8	5-11
300	2-4	2-8	3-1	3-7	4-1	4-5	4-8	5-0	5-3	5-7	5-10	6-1	6-4
310	2-6	2-10	3-4	3-10	4-5	4-8	5-0	5-4	5-7	5-11	6-3	6-6	6-10
320	2-8	3-1	3-6	4-1	4-8	5-0	5-4	5-8	6-0	6-4	6-7	6-11	7-3
330	2-10	3-3	3-9	4-4	5-0	5-4	5-8	6-0	6-4	6-8	7-0	7-4	7-8
340	3-0	3-5	4-0	4-7	5-3	5-8	6-0	6-5	6-9	7-1	7-6	7-10	8-2
350	3-2	3-8	4-3	4-10	5-7	6-0	6-4	6-9	7-2	7-6	7-11	8-3	8-8

Ruling Span (Feet)	220		OXLIP - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	966.	844.	730.	631.	548.	512.	481.	453.	429.	407.	387.	370.	354.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.34	3.57	3.84	4.13	4.43	4.58	4.73	4.87	5.01	5.14	5.27	5.40	5.51
50	.76	.81	.87	.94	1.01	1.04	1.07	1.11	1.14	1.17	1.20	1.23	1.25
75	1.14	1.22	1.31	1.41	1.51	1.56	1.61	1.66	1.71	1.75	1.80	1.84	1.88
100	1.52	1.62	1.74	1.88	2.01	2.08	2.15	2.21	2.28	2.34	2.40	2.45	2.51
120	1.82	1.95	2.09	2.25	2.42	2.50	2.58	2.66	2.73	2.81	2.88	2.94	3.01
140	2.12	2.27	2.44	2.63	2.82	2.91	3.01	3.10	3.19	3.27	3.35	3.43	3.51
160	2.43	2.60	2.79	3.00	3.22	3.33	3.44	3.54	3.64	3.74	3.83	3.92	4.01
180	2.73	2.92	3.14	3.38	3.63	3.75	3.87	3.99	4.10	4.21	4.31	4.41	4.51
200	3.03	3.25	3.49	3.75	4.03	4.16	4.30	4.43	4.55	4.68	4.79	4.90	5.01
210	3.18	3.41	3.66	3.94	4.23	4.37	4.51	4.65	4.78	4.91	5.03	5.15	5.26
220	3.34	3.57	3.84	4.13	4.43	4.58	4.73	4.87	5.01	5.14	5.27	5.40	5.51
230	3.49	3.73	4.01	4.32	4.63	4.79	4.94	5.09	5.24	5.38	5.51	5.64	5.76
240	3.64	3.89	4.19	4.50	4.83	5.00	5.16	5.31	5.47	5.61	5.75	5.89	6.01
250	3.79	4.06	4.36	4.69	5.04	5.21	5.37	5.54	5.69	5.84	5.99	6.13	6.27
260	3.94	4.22	4.54	4.88	5.24	5.41	5.59	5.76	5.92	6.08	6.23	6.38	6.52
270	4.09	4.38	4.71	5.07	5.44	5.62	5.80	5.98	6.15	6.31	6.47	6.62	6.77
280	4.25	4.54	4.88	5.26	5.64	5.83	6.02	6.20	6.38	6.55	6.71	6.87	7.02
290	4.40	4.71	5.06	5.44	5.84	6.04	6.23	6.42	6.60	6.78	6.95	7.11	7.27
300	4.55	4.87	5.23	5.63	6.04	6.25	6.45	6.64	6.83	7.01	7.19	7.36	7.52
310	4.70	5.03	5.41	5.82	6.24	6.46	6.66	6.86	7.06	7.25	7.43	7.60	7.77
320	4.85	5.19	5.58	6.01	6.45	6.66	6.88	7.09	7.29	7.48	7.67	7.85	8.02
330	5.00	5.36	5.76	6.19	6.65	6.87	7.09	7.31	7.52	7.72	7.91	8.09	8.27
340	5.16	5.52	5.93	6.38	6.85	7.08	7.31	7.53	7.74	7.95	8.15	8.34	8.52
350	5.31	5.68	6.11	6.57	7.05	7.29	7.52	7.75	7.97	8.18	8.39	8.58	8.77

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	235		OXLIP - INITIAL	
Conductor Condition	*4/0 AWG AAC - Oxlip Initial Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	909.	794.	690.	602.	529.	499.	471.	447.	425.	405.	388.	372.	357.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	1-7	1-9	2-0	2-4	2-8	2-10	2-11	3-1	3-3	3-5	3-7	3-9	3-11
50	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
100	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9
120	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1
140	0-7	0-8	0-9	0-10	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-4	1-5
160	0-9	0-10	1-0	1-1	1-3	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-10
180	0-11	1-1	1-2	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-4
200	1-2	1-4	1-6	1-8	1-11	2-0	2-2	2-3	2-5	2-6	2-7	2-9	2-10
210	1-3	1-5	1-8	1-10	2-1	2-3	2-4	2-6	2-7	2-9	2-10	3-0	3-1
220	1-4	1-7	1-9	2-0	2-4	2-5	2-7	2-9	2-10	3-0	3-2	3-3	3-5
230	1-6	1-8	1-11	2-3	2-6	2-8	2-10	3-0	3-2	3-3	3-5	3-7	3-9
240	1-7	1-10	2-1	2-5	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11	4-1
250	1-9	2-0	2-3	2-7	3-0	3-2	3-4	3-6	3-8	3-10	4-1	4-3	4-5
260	1-11	2-2	2-6	2-10	3-3	3-5	3-7	3-10	4-0	4-2	4-4	4-7	4-9
270	2-0	2-4	2-8	3-1	3-6	3-8	3-11	4-1	4-4	4-6	4-9	4-11	5-1
280	2-2	2-6	2-10	3-3	3-9	3-11	4-2	4-5	4-8	4-10	5-1	5-3	5-6
290	2-4	2-8	3-1	3-6	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-8	5-11
300	2-6	2-10	3-3	3-9	4-3	4-6	4-9	5-1	5-4	5-7	5-10	6-1	6-4
310	2-8	3-1	3-6	4-0	4-7	4-10	5-1	5-5	5-8	5-11	6-2	6-6	6-9
320	2-10	3-3	3-9	4-3	4-10	5-2	5-5	5-9	6-0	6-4	6-7	6-11	7-2
330	3-0	3-5	4-0	4-6	5-2	5-6	5-9	6-1	6-5	6-9	7-0	7-4	7-7
340	3-2	3-8	4-2	4-10	5-6	5-10	6-2	6-6	6-10	7-2	7-5	7-9	8-1
350	3-5	3-11	4-5	5-1	5-9	6-2	6-6	6-10	7-2	7-7	7-11	8-3	8-7

Ruling Span (Feet)	235		OXLIP - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	909.	794.	690.	602.	529.	499.	471.	447.	425.	405.	388.	372.	357.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.67	3.93	4.22	4.51	4.81	4.96	5.10	5.24	5.37	5.50	5.63	5.75	5.86
50	.78	.84	.90	.96	1.02	1.06	1.09	1.12	1.14	1.17	1.20	1.22	1.25
75	1.17	1.25	1.35	1.44	1.54	1.58	1.63	1.67	1.72	1.76	1.80	1.83	1.87
100	1.56	1.67	1.79	1.92	2.05	2.11	2.17	2.23	2.29	2.34	2.39	2.44	2.49
120	1.88	2.01	2.15	2.31	2.46	2.53	2.61	2.68	2.74	2.81	2.87	2.93	2.99
140	2.19	2.34	2.51	2.69	2.87	2.96	3.04	3.12	3.20	3.28	3.35	3.42	3.49
160	2.50	2.68	2.87	3.07	3.28	3.38	3.47	3.57	3.66	3.75	3.83	3.91	3.99
180	2.81	3.01	3.23	3.46	3.69	3.80	3.91	4.01	4.12	4.21	4.31	4.40	4.49
200	3.13	3.35	3.59	3.84	4.10	4.22	4.34	4.46	4.57	4.68	4.79	4.89	4.99
210	3.28	3.51	3.77	4.03	4.30	4.43	4.56	4.68	4.80	4.92	5.03	5.13	5.24
220	3.44	3.68	3.95	4.23	4.51	4.64	4.78	4.91	5.03	5.15	5.27	5.38	5.49
230	3.60	3.85	4.13	4.42	4.71	4.85	4.99	5.13	5.26	5.39	5.51	5.62	5.73
240	3.75	4.02	4.31	4.61	4.92	5.07	5.21	5.35	5.49	5.62	5.75	5.87	5.98
250	3.91	4.18	4.48	4.80	5.12	5.28	5.43	5.58	5.72	5.85	5.99	6.11	6.23
260	4.06	4.35	4.66	5.00	5.33	5.49	5.65	5.80	5.95	6.09	6.23	6.36	6.48
270	4.22	4.52	4.84	5.19	5.53	5.70	5.86	6.02	6.18	6.32	6.46	6.60	6.73
280	4.38	4.68	5.02	5.38	5.74	5.91	6.08	6.25	6.40	6.56	6.70	6.85	6.98
290	4.53	4.85	5.20	5.57	5.94	6.12	6.30	6.47	6.63	6.79	6.94	7.09	7.23
300	4.69	5.02	5.38	5.76	6.15	6.33	6.51	6.69	6.86	7.03	7.18	7.34	7.48
310	4.85	5.19	5.56	5.96	6.35	6.54	6.73	6.91	7.09	7.26	7.42	7.58	7.73
320	5.00	5.35	5.74	6.15	6.56	6.76	6.95	7.14	7.32	7.49	7.66	7.82	7.98
330	5.16	5.52	5.92	6.34	6.76	6.97	7.17	7.36	7.55	7.73	7.90	8.07	8.23
340	5.32	5.69	6.10	6.53	6.97	7.18	7.38	7.58	7.78	7.96	8.14	8.31	8.48
350	5.47	5.86	6.28	6.72	7.17	7.39	7.60	7.81	8.01	8.20	8.38	8.56	8.73

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	250		OXLIP - INITIAL	
Conductor Condition	4/0 AWG AAC - Oxlip Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	853.	747.	654.	577.	514.	487.	463.	441.	422.	404.	388.	374.	361.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-10	2-1	2-5	2-9	3-1	3-3	3-5	3-7	3-9	3-11	4-0	4-2	4-4
50	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
75	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
100	0-4	0-4	0-5	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-8	0-9
120	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-0
140	0-7	0-8	0-9	0-11	1-0	1-1	1-1	1-2	1-2	1-3	1-4	1-4	1-5
160	0-9	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
180	1-0	1-1	1-3	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
200	1-2	1-4	1-7	1-9	2-0	2-1	2-2	2-4	2-5	2-6	2-7	2-8	2-10
210	1-4	1-6	1-9	1-11	2-2	2-4	2-5	2-6	2-8	2-9	2-10	3-0	3-1
220	1-5	1-8	1-11	2-2	2-5	2-6	2-8	2-9	2-11	3-0	3-2	3-3	3-5
230	1-7	1-10	2-1	2-4	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8
240	1-9	1-11	2-3	2-6	2-10	3-0	3-2	3-3	3-5	3-7	3-9	3-10	4-0
250	1-10	2-1	2-5	2-9	3-1	3-3	3-5	3-7	3-9	3-11	4-0	4-2	4-4
260	2-0	2-3	2-7	2-11	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-6	4-8
270	2-2	2-6	2-10	3-2	3-7	3-9	3-11	4-2	4-4	4-6	4-8	4-11	5-1
280	2-4	2-8	3-0	3-5	3-10	4-1	4-3	4-5	4-8	4-10	5-1	5-3	5-5
290	2-6	2-10	3-3	3-8	4-1	4-4	4-7	4-9	5-0	5-3	5-5	5-8	5-10
300	2-8	3-0	3-5	3-11	4-5	4-8	4-10	5-1	5-4	5-7	5-10	6-0	6-3
310	2-10	3-3	3-8	4-2	4-8	4-11	5-2	5-5	5-8	5-11	6-2	6-5	6-8
320	3-0	3-5	3-11	4-5	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1
330	3-3	3-8	4-2	4-9	5-4	5-7	5-11	6-2	6-6	6-9	7-0	7-3	7-7
340	3-5	3-11	4-5	5-0	5-8	5-11	6-3	6-7	6-10	7-2	7-5	7-9	8-0
350	3-7	4-1	4-8	5-4	6-0	6-4	6-7	6-11	7-3	7-7	7-11	8-2	8-6

Ruling Span (Feet)	250		OXLIP - INITIAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Initial Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	853.	747.	654.	577.	514.	487.	463.	441.	422.	404.	388.	374.	361.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	4.03	4.31	4.61	4.91	5.20	5.34	5.48	5.61	5.74	5.86	5.98	6.10	6.21
50	.81	.86	.92	.98	1.04	1.07	1.10	1.12	1.15	1.17	1.20	1.22	1.24
75	1.21	1.29	1.38	1.47	1.56	1.60	1.64	1.68	1.72	1.76	1.79	1.83	1.86
100	1.61	1.72	1.84	1.96	2.08	2.14	2.19	2.24	2.30	2.34	2.39	2.44	2.48
120	1.94	2.07	2.21	2.35	2.50	2.56	2.63	2.69	2.75	2.81	2.87	2.93	2.98
140	2.26	2.41	2.58	2.75	2.91	2.99	3.07	3.14	3.21	3.28	3.35	3.41	3.47
160	2.58	2.76	2.95	3.14	3.33	3.42	3.51	3.59	3.67	3.75	3.83	3.90	3.97
180	2.90	3.10	3.32	3.53	3.74	3.85	3.94	4.04	4.13	4.22	4.31	4.39	4.47
200	3.23	3.45	3.68	3.92	4.16	4.27	4.38	4.49	4.59	4.69	4.78	4.88	4.96
210	3.39	3.62	3.87	4.12	4.37	4.49	4.60	4.71	4.82	4.92	5.02	5.12	5.21
220	3.55	3.79	4.05	4.32	4.58	4.70	4.82	4.94	5.05	5.16	5.26	5.36	5.46
230	3.71	3.97	4.24	4.51	4.78	4.91	5.04	5.16	5.28	5.39	5.50	5.61	5.71
240	3.87	4.14	4.42	4.71	4.99	5.13	5.26	5.39	5.51	5.63	5.74	5.85	5.96
250	4.03	4.31	4.61	4.91	5.20	5.34	5.48	5.61	5.74	5.86	5.98	6.10	6.21
260	4.20	4.48	4.79	5.10	5.41	5.55	5.70	5.84	5.97	6.10	6.22	6.34	6.45
270	4.36	4.66	4.97	5.30	5.62	5.77	5.92	6.06	6.20	6.33	6.46	6.58	6.70
280	4.52	4.83	5.16	5.50	5.82	5.98	6.14	6.28	6.43	6.57	6.70	6.83	6.95
290	4.68	5.00	5.34	5.69	6.03	6.20	6.36	6.51	6.66	6.80	6.94	7.07	7.20
300	4.84	5.17	5.53	5.89	6.24	6.41	6.57	6.73	6.89	7.04	7.18	7.32	7.45
310	5.00	5.35	5.71	6.08	6.45	6.62	6.79	6.96	7.12	7.27	7.42	7.56	7.70
320	5.16	5.52	5.90	6.28	6.66	6.84	7.01	7.18	7.35	7.50	7.66	7.80	7.94
330	5.33	5.69	6.08	6.48	6.86	7.05	7.23	7.41	7.58	7.74	7.90	8.05	8.19
340	5.49	5.86	6.26	6.67	7.07	7.26	7.45	7.63	7.81	7.97	8.14	8.29	8.44
350	5.65	6.04	6.45	6.87	7.28	7.48	7.67	7.86	8.04	8.21	8.38	8.54	8.69

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	145		ARBUTUS - INITIAL		
Conductor	795 kcmil AAC - Arbutus												
Condition	Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3850.	3393.	2940.	2503.	2101.	1920.	1756.	1608.	1478.	1365.	1267.	1182.	1109.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-7	0-7	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-8	1-10
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
75	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6
100	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11
120	0-5	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3
140	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-5	1-6	1-7	1-8
160	0-8	0-9	0-10	1-0	1-2	1-3	1-5	1-6	1-8	1-9	1-11	2-1	2-2
180	0-10	0-11	1-1	1-3	1-6	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9
200	1-0	1-2	1-4	1-6	1-10	2-0	2-2	2-4	2-7	2-9	3-0	3-2	3-5
210	1-1	1-3	1-5	1-8	2-0	2-2	2-5	2-7	2-10	3-1	3-3	3-6	3-9
220	1-3	1-4	1-7	1-10	2-2	2-5	2-7	2-10	3-1	3-4	3-7	3-10	4-1
230	1-4	1-6	1-9	2-0	2-5	2-7	2-10	3-1	3-5	3-8	3-11	4-3	4-6
240	1-5	1-8	1-10	2-2	2-7	2-10	3-1	3-5	3-8	4-0	4-3	4-7	4-11
250	1-7	1-9	2-0	2-4	2-10	3-1	3-4	3-8	4-0	4-4	4-8	5-0	5-4
260	1-8	1-11	2-2	2-7	3-1	3-4	3-8	4-0	4-4	4-8	5-0	5-5	5-9
270	1-10	2-1	2-4	2-9	3-3	3-7	3-11	4-3	4-8	5-0	5-5	5-10	6-2
280	1-11	2-2	2-6	3-0	3-6	3-10	4-3	4-7	5-0	5-5	5-10	6-3	6-8
290	2-1	2-4	2-9	3-2	3-9	4-2	4-6	4-11	5-4	5-10	6-3	6-8	7-1
300	2-3	2-6	2-11	3-5	4-0	4-5	4-10	5-3	5-9	6-2	6-8	7-2	7-7
310	2-4	2-8	3-1	3-7	4-4	4-9	5-2	5-7	6-1	6-7	7-1	7-8	8-2
320	2-6	2-10	3-4	3-10	4-7	5-0	5-6	6-0	6-6	7-1	7-7	8-2	8-8
330	2-8	3-0	3-6	4-1	4-11	5-4	5-10	6-4	6-11	7-6	8-1	8-8	9-3
340	2-10	3-3	3-9	4-4	5-2	5-8	6-2	6-9	7-4	7-11	8-7	9-2	9-9
350	3-0	3-5	3-11	4-7	5-6	6-0	6-7	7-2	7-9	8-5	9-1	9-9	10-4

Ruling Span (Feet)	145		ARBUTUS - INITIAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Initial Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3850.	3393.	2940.	2503.	2101.	1920.	1756.	1608.	1478.	1365.	1267.	1182.	1109.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.13	2.27	2.44	2.65	2.89	3.02	3.16	3.30	3.45	3.59	3.72	3.85	3.98
50	.74	.78	.84	.91	1.00	1.04	1.09	1.14	1.19	1.24	1.28	1.33	1.37
75	1.10	1.18	1.26	1.37	1.49	1.56	1.64	1.71	1.78	1.85	1.92	1.99	2.06
100	1.47	1.57	1.68	1.83	1.99	2.08	2.18	2.28	2.38	2.47	2.57	2.66	2.74
120	1.77	1.88	2.02	2.19	2.39	2.50	2.62	2.73	2.85	2.97	3.08	3.19	3.29
140	2.06	2.20	2.36	2.56	2.79	2.92	3.05	3.19	3.33	3.46	3.59	3.72	3.84
160	2.36	2.51	2.70	2.92	3.19	3.34	3.49	3.64	3.80	3.96	4.11	4.25	4.39
180	2.65	2.82	3.03	3.29	3.59	3.75	3.92	4.10	4.28	4.45	4.62	4.78	4.94
200	2.94	3.14	3.37	3.65	3.99	4.17	4.36	4.56	4.75	4.95	5.13	5.31	5.49
210	3.09	3.29	3.54	3.83	4.19	4.38	4.58	4.78	4.99	5.19	5.39	5.58	5.76
220	3.24	3.45	3.71	4.02	4.38	4.59	4.80	5.01	5.23	5.44	5.65	5.85	6.04
230	3.39	3.61	3.88	4.20	4.58	4.79	5.02	5.24	5.47	5.69	5.90	6.11	6.31
240	3.53	3.76	4.04	4.38	4.78	5.00	5.23	5.47	5.70	5.93	6.16	6.38	6.59
250	3.68	3.92	4.21	4.57	4.98	5.21	5.45	5.70	5.94	6.18	6.42	6.64	6.86
260	3.83	4.08	4.38	4.75	5.18	5.42	5.67	5.92	6.18	6.43	6.67	6.91	7.13
270	3.97	4.23	4.55	4.93	5.38	5.63	5.89	6.15	6.42	6.68	6.93	7.18	7.41
280	4.12	4.39	4.72	5.11	5.58	5.84	6.11	6.38	6.65	6.92	7.19	7.44	7.68
290	4.27	4.55	4.89	5.30	5.78	6.05	6.32	6.61	6.89	7.17	7.44	7.71	7.96
300	4.42	4.70	5.05	5.48	5.98	6.25	6.54	6.84	7.13	7.42	7.70	7.97	8.23
310	4.56	4.86	5.22	5.66	6.18	6.46	6.76	7.06	7.37	7.67	7.96	8.24	8.51
320	4.71	5.02	5.39	5.84	6.38	6.67	6.98	7.29	7.60	7.91	8.21	8.50	8.78
330	4.86	5.18	5.56	6.03	6.58	6.88	7.20	7.52	7.84	8.16	8.47	8.77	9.06
340	5.01	5.33	5.73	6.21	6.78	7.09	7.41	7.75	8.08	8.41	8.73	9.04	9.33
350	5.15	5.49	5.90	6.39	6.98	7.30	7.63	7.97	8.32	8.66	8.99	9.30	9.61

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	160		ARBUTUS - INITIAL		
Conductor Condition	795 kcmil AAC - Arbutus Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3859.	3409.	2965.	2542.	2155.	1982.	1824.	1682.	1556.	1445.	1348.	1264.	1190.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-8	0-9	0-10	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-1
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
75	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
100	0-3	0-4	0-4	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
120	0-5	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2
140	0-6	0-7	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7
160	0-8	0-9	0-10	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-1
180	0-10	0-11	1-1	1-3	1-5	1-7	1-8	1-10	2-0	2-2	2-3	2-5	2-7
200	1-0	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-2
210	1-1	1-3	1-5	1-8	1-11	2-1	2-4	2-6	2-8	2-11	3-1	3-4	3-6
220	1-3	1-4	1-7	1-10	2-2	2-4	2-6	2-9	2-11	3-2	3-5	3-7	3-10
230	1-4	1-6	1-8	2-0	2-4	2-6	2-9	3-0	3-3	3-5	3-8	3-11	4-2
240	1-5	1-7	1-10	2-2	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-4	4-7
250	1-7	1-9	2-0	2-4	2-9	3-0	3-3	3-6	3-9	4-1	4-4	4-8	4-11
260	1-8	1-11	2-2	2-6	3-0	3-3	3-6	3-10	4-1	4-5	4-9	5-0	5-4
270	1-10	2-0	2-4	2-9	3-2	3-6	3-9	4-1	4-5	4-9	5-1	5-5	5-9
280	1-11	2-2	2-6	2-11	3-5	3-9	4-1	4-5	4-9	5-1	5-6	5-10	6-2
290	2-1	2-4	2-8	3-2	3-8	4-0	4-4	4-9	5-1	5-6	5-10	6-3	6-8
300	2-3	2-6	2-10	3-4	3-11	4-3	4-8	5-0	5-5	5-10	6-3	6-8	7-1
310	2-4	2-8	3-1	3-7	4-2	4-7	5-0	5-5	5-10	6-3	6-8	7-2	7-7
320	2-6	2-10	3-3	3-10	4-6	4-10	5-3	5-9	6-2	6-8	7-2	7-7	8-1
330	2-8	3-0	3-6	4-0	4-9	5-2	5-7	6-1	6-7	7-1	7-7	8-1	8-7
340	2-10	3-2	3-8	4-3	5-1	5-6	6-0	6-6	7-0	7-6	8-1	8-7	9-1
350	3-0	3-5	3-11	4-6	5-4	5-10	6-4	6-10	7-5	7-11	8-6	9-1	9-8

Ruling Span (Feet)	160		ARBUTUS - INITIAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Initial Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3859.	3409.	2965.	2542.	2155.	1982.	1824.	1682.	1556.	1445.	1348.	1264.	1190.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.35	2.50	2.68	2.90	3.15	3.28	3.42	3.56	3.71	3.85	3.98	4.11	4.24
50	.74	.78	.84	.91	.98	1.03	1.07	1.11	1.16	1.20	1.24	1.28	1.32
75	1.10	1.17	1.26	1.36	1.48	1.54	1.60	1.67	1.74	1.80	1.87	1.93	1.99
100	1.47	1.56	1.68	1.81	1.97	2.05	2.14	2.23	2.32	2.40	2.49	2.57	2.65
120	1.76	1.88	2.01	2.17	2.36	2.46	2.57	2.67	2.78	2.88	2.99	3.08	3.18
140	2.06	2.19	2.35	2.54	2.75	2.87	2.99	3.12	3.24	3.36	3.48	3.60	3.71
160	2.35	2.50	2.68	2.90	3.15	3.28	3.42	3.56	3.71	3.85	3.98	4.11	4.24
180	2.65	2.82	3.02	3.26	3.54	3.69	3.85	4.01	4.17	4.33	4.48	4.63	4.77
200	2.94	3.13	3.36	3.62	3.94	4.10	4.28	4.46	4.63	4.81	4.98	5.14	5.30
210	3.09	3.29	3.52	3.81	4.13	4.31	4.49	4.68	4.86	5.05	5.22	5.40	5.56
220	3.24	3.44	3.69	3.99	4.33	4.51	4.71	4.90	5.10	5.29	5.47	5.65	5.83
230	3.38	3.60	3.86	4.17	4.53	4.72	4.92	5.12	5.33	5.53	5.72	5.91	6.09
240	3.53	3.76	4.03	4.35	4.72	4.93	5.13	5.35	5.56	5.77	5.97	6.17	6.36
250	3.68	3.91	4.19	4.53	4.92	5.13	5.35	5.57	5.79	6.01	6.22	6.43	6.62
260	3.82	4.07	4.36	4.71	5.12	5.34	5.56	5.79	6.02	6.25	6.47	6.68	6.89
270	3.97	4.22	4.53	4.89	5.31	5.54	5.78	6.02	6.25	6.49	6.72	6.94	7.15
280	4.12	4.38	4.70	5.07	5.51	5.75	5.99	6.24	6.49	6.73	6.97	7.20	7.42
290	4.26	4.54	4.87	5.26	5.71	5.95	6.20	6.46	6.72	6.97	7.22	7.45	7.68
300	4.41	4.69	5.03	5.44	5.90	6.16	6.42	6.68	6.95	7.21	7.47	7.71	7.95
310	4.56	4.85	5.20	5.62	6.10	6.36	6.63	6.91	7.18	7.45	7.71	7.97	8.21
320	4.71	5.01	5.37	5.80	6.30	6.57	6.85	7.13	7.41	7.69	7.96	8.23	8.48
330	4.85	5.16	5.54	5.98	6.49	6.77	7.06	7.35	7.64	7.93	8.21	8.48	8.74
340	5.00	5.32	5.70	6.16	6.69	6.98	7.27	7.58	7.88	8.17	8.46	8.74	9.01
350	5.15	5.48	5.87	6.34	6.89	7.18	7.49	7.80	8.11	8.41	8.71	9.00	9.27

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	175		ARBUTUS - INITIAL		
Conductor Condition	795 kcmil AAC - Arbutus Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3868.	3426.	2992.	2581.	2209.	2042.	1889.	1752.	1630.	1522.	1426.	1342.	1268.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-9	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-10	1-11	2-1	2-2	2-4
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-2	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5
100	0-3	0-4	0-4	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9
120	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-1
140	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
160	0-8	0-9	0-10	1-0	1-1	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11
180	0-10	0-11	1-1	1-3	1-5	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-5
200	1-0	1-2	1-3	1-6	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10	3-0
210	1-1	1-3	1-5	1-8	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-3
220	1-3	1-4	1-7	1-9	2-1	2-3	2-5	2-7	2-10	3-0	3-3	3-5	3-7
230	1-4	1-6	1-8	1-11	2-3	2-6	2-8	2-10	3-1	3-3	3-6	3-9	3-11
240	1-5	1-7	1-10	2-1	2-6	2-8	2-11	3-1	3-4	3-7	3-10	4-1	4-3
250	1-7	1-9	2-0	2-4	2-8	2-11	3-2	3-4	3-7	3-10	4-2	4-5	4-8
260	1-8	1-11	2-2	2-6	2-11	3-2	3-5	3-8	3-11	4-2	4-6	4-9	5-0
270	1-10	2-0	2-4	2-8	3-1	3-4	3-8	3-11	4-3	4-6	4-10	5-1	5-5
280	1-11	2-2	2-6	2-11	3-4	3-7	3-11	4-3	4-6	4-10	5-2	5-6	5-10
290	2-1	2-4	2-8	3-1	3-7	3-11	4-2	4-6	4-10	5-2	5-7	5-11	6-3
300	2-3	2-6	2-10	3-4	3-10	4-2	4-6	4-10	5-2	5-7	5-11	6-4	6-8
310	2-4	2-8	3-0	3-6	4-1	4-5	4-9	5-2	5-7	5-11	6-4	6-9	7-1
320	2-6	2-10	3-3	3-9	4-4	4-9	5-1	5-6	5-11	6-4	6-9	7-2	7-7
330	2-8	3-0	3-5	4-0	4-8	5-0	5-5	5-10	6-3	6-9	7-2	7-7	8-1
340	2-10	3-2	3-8	4-3	4-11	5-4	5-9	6-2	6-8	7-2	7-7	8-1	8-7
350	3-0	3-5	3-10	4-6	5-3	5-8	6-1	6-7	7-1	7-7	8-1	8-7	9-1

Ruling Span (Feet)	175		ARBUTUS - INITIAL			Design Condition: 4750 lb. max tension at 0°F							
						Conductor Condition: 795 kcmil AAC - Arbutus Initial Sag & Tension							
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3868.	3426.	2992.	2581.	2209.	2042.	1889.	1752.	1630.	1522.	1426.	1342.	1268.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.57	2.73	2.92	3.15	3.40	3.54	3.68	3.82	3.96	4.10	4.23	4.36	4.49
50	.73	.78	.83	.90	.97	1.01	1.05	1.09	1.13	1.17	1.21	1.25	1.28
75	1.10	1.17	1.25	1.35	1.46	1.52	1.58	1.64	1.70	1.76	1.81	1.87	1.92
100	1.47	1.56	1.67	1.80	1.94	2.02	2.10	2.18	2.26	2.34	2.42	2.49	2.57
120	1.76	1.87	2.00	2.16	2.33	2.43	2.52	2.62	2.72	2.81	2.90	2.99	3.08
140	2.06	2.19	2.34	2.52	2.72	2.83	2.94	3.06	3.17	3.28	3.39	3.49	3.59
160	2.35	2.50	2.67	2.88	3.11	3.23	3.36	3.49	3.62	3.75	3.87	3.99	4.10
180	2.64	2.81	3.01	3.24	3.50	3.64	3.78	3.93	4.07	4.22	4.35	4.49	4.62
200	2.94	3.12	3.34	3.60	3.89	4.04	4.20	4.36	4.53	4.68	4.84	4.99	5.13
210	3.08	3.28	3.51	3.78	4.08	4.25	4.41	4.58	4.75	4.92	5.08	5.24	5.39
220	3.23	3.43	3.67	3.96	4.28	4.45	4.62	4.80	4.98	5.15	5.32	5.49	5.64
230	3.38	3.59	3.84	4.14	4.47	4.65	4.83	5.02	5.20	5.39	5.56	5.74	5.90
240	3.53	3.75	4.01	4.32	4.67	4.85	5.04	5.24	5.43	5.62	5.81	5.99	6.16
250	3.67	3.90	4.18	4.50	4.86	5.05	5.25	5.46	5.66	5.86	6.05	6.23	6.41
260	3.82	4.06	4.34	4.68	5.05	5.26	5.46	5.67	5.88	6.09	6.29	6.48	6.67
270	3.97	4.21	4.51	4.85	5.25	5.46	5.67	5.89	6.11	6.32	6.53	6.73	6.93
280	4.11	4.37	4.68	5.03	5.44	5.66	5.89	6.11	6.34	6.56	6.77	6.98	7.18
290	4.26	4.53	4.84	5.21	5.64	5.86	6.10	6.33	6.56	6.79	7.02	7.23	7.44
300	4.41	4.68	5.01	5.39	5.83	6.07	6.31	6.55	6.79	7.03	7.26	7.48	7.70
310	4.55	4.84	5.18	5.57	6.03	6.27	6.52	6.77	7.02	7.26	7.50	7.73	7.96
320	4.70	4.99	5.34	5.75	6.22	6.47	6.73	6.98	7.24	7.50	7.74	7.98	8.21
330	4.85	5.15	5.51	5.93	6.42	6.67	6.94	7.20	7.47	7.73	7.98	8.23	8.47
340	4.99	5.31	5.68	6.11	6.61	6.87	7.15	7.42	7.69	7.96	8.23	8.48	8.73
350	5.14	5.46	5.85	6.29	6.80	7.08	7.36	7.64	7.92	8.20	8.47	8.73	8.98

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	190		ARBUTUS - INITIAL		
Conductor Condition	795 kcmil AAC - Arbutus Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3878.	3443.	3020.	2621.	2281.	2101.	1953.	1820.	1701.	1595.	1501.	1417.	1343.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-11	1-0	1-2	1-4	1-6	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-7
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
75	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
100	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-8	0-9
120	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1
140	0-6	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5
160	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-10
180	0-10	0-11	1-1	1-2	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4
200	1-0	1-2	1-3	1-6	1-8	1-10	1-11	2-1	2-3	2-5	2-6	2-8	2-10
210	1-1	1-3	1-5	1-7	1-10	2-0	2-2	2-4	2-6	2-7	2-9	2-11	3-1
220	1-2	1-4	1-6	1-9	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-3	3-5
230	1-4	1-6	1-8	1-11	2-3	2-5	2-7	2-9	2-11	3-2	3-4	3-6	3-9
240	1-5	1-7	1-10	2-1	2-5	2-7	2-10	3-0	3-2	3-5	3-7	3-10	4-1
250	1-7	1-9	2-0	2-3	2-7	2-10	3-0	3-3	3-6	3-8	3-11	4-2	4-5
260	1-8	1-10	2-2	2-5	2-10	3-1	3-3	3-6	3-9	4-0	4-3	4-6	4-9
270	1-10	2-0	2-4	2-8	3-1	3-3	3-6	3-9	4-0	4-4	4-7	4-10	5-1
280	1-11	2-2	2-6	2-10	3-3	3-6	3-9	4-1	4-4	4-8	4-11	5-2	5-6
290	2-1	2-4	2-8	3-0	3-6	3-9	4-1	4-4	4-8	5-0	5-3	5-7	5-11
300	2-2	2-6	2-10	3-3	3-9	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-4
310	2-4	2-8	3-0	3-6	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-4	6-9
320	2-6	2-10	3-2	3-8	4-3	4-7	4-11	5-3	5-8	6-0	6-5	6-9	7-2
330	2-8	3-0	3-5	3-11	4-6	4-11	5-3	5-7	6-0	6-5	6-10	7-3	7-7
340	2-10	3-2	3-7	4-2	4-10	5-2	5-7	6-0	6-5	6-10	7-3	7-8	8-1
350	3-0	3-4	3-10	4-5	5-1	5-6	5-11	6-4	6-9	7-3	7-8	8-1	8-7

Ruling Span (Feet)	190		ARBUTUS - INITIAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Initial Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3878.	3443.	3020.	2621.	2261.	2101.	1953.	1820.	1701.	1595.	1501.	1417.	1343.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.79	2.96	3.16	3.39	3.65	3.79	3.93	4.07	4.21	4.35	4.48	4.61	4.74
50	.73	.78	.83	.89	.96	1.00	1.03	1.07	1.11	1.14	1.18	1.21	1.25
75	1.10	1.17	1.25	1.34	1.44	1.49	1.55	1.61	1.66	1.72	1.77	1.82	1.87
100	1.47	1.56	1.66	1.78	1.92	1.99	2.07	2.14	2.21	2.29	2.36	2.43	2.49
120	1.76	1.87	1.99	2.14	2.31	2.39	2.48	2.57	2.66	2.74	2.83	2.91	2.99
140	2.05	2.18	2.33	2.50	2.69	2.79	2.89	3.00	3.10	3.20	3.30	3.40	3.49
160	2.35	2.49	2.66	2.85	3.07	3.19	3.31	3.43	3.54	3.66	3.77	3.88	3.99
180	2.64	2.80	2.99	3.21	3.46	3.59	3.72	3.85	3.99	4.12	4.24	4.37	4.49
200	2.93	3.11	3.32	3.57	3.84	3.99	4.13	4.28	4.43	4.57	4.72	4.85	4.99
210	3.08	3.27	3.49	3.75	4.03	4.19	4.34	4.50	4.65	4.80	4.95	5.10	5.24
220	3.23	3.43	3.66	3.93	4.23	4.39	4.55	4.71	4.87	5.03	5.19	5.34	5.48
230	3.37	3.58	3.82	4.10	4.42	4.58	4.75	4.92	5.09	5.26	5.42	5.58	5.73
240	3.52	3.74	3.99	4.28	4.61	4.78	4.96	5.14	5.32	5.49	5.66	5.82	5.98
250	3.67	3.89	4.16	4.46	4.80	4.98	5.17	5.35	5.54	5.72	5.90	6.07	6.23
260	3.81	4.05	4.32	4.64	4.99	5.18	5.37	5.57	5.76	5.95	6.13	6.31	6.48
270	3.96	4.20	4.49	4.82	5.19	5.38	5.58	5.78	5.98	6.18	6.37	6.55	6.73
280	4.11	4.36	4.65	5.00	5.38	5.58	5.79	6.00	6.20	6.41	6.60	6.80	6.98
290	4.25	4.52	4.82	5.17	5.57	5.78	5.99	6.21	6.42	6.63	6.84	7.04	7.23
300	4.40	4.67	4.99	5.35	5.76	5.98	6.20	6.42	6.65	6.86	7.08	7.28	7.48
310	4.55	4.83	5.15	5.53	5.96	6.18	6.41	6.64	6.87	7.09	7.31	7.52	7.73
320	4.69	4.98	5.32	5.71	6.15	6.38	6.61	6.85	7.09	7.32	7.55	7.77	7.98
330	4.84	5.14	5.49	5.89	6.34	6.58	6.82	7.07	7.31	7.55	7.78	8.01	8.23
340	4.99	5.29	5.65	6.07	6.53	6.78	7.03	7.28	7.53	7.78	8.02	8.25	8.48
350	5.13	5.45	5.82	6.25	6.72	6.98	7.24	7.50	7.75	8.01	8.26	8.50	8.73

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	205		ARBUTUS - INITIAL		
Conductor Condition	795 kcmil AAC - Arbutus Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3888.	3461.	3048.	2661.	2313.	2158.	2015.	1886.	1770.	1666.	1573.	1490.	1416.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-1	1-2	1-4	1-6	1-9	1-10	2-0	2-1	2-3	2-5	2-6	2-8	2-10
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
75	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
100	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-8
120	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	0-11	1-0
140	0-6	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-2	1-3	1-4
160	0-8	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
180	0-10	0-11	1-0	1-2	1-4	1-5	1-7	1-8	1-9	1-10	2-0	2-1	2-2
200	1-0	1-1	1-3	1-5	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-7	2-8
210	1-1	1-3	1-5	1-7	1-10	1-11	2-1	2-3	2-4	2-6	2-8	2-10	2-11
220	1-2	1-4	1-6	1-9	2-0	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-3
230	1-4	1-6	1-8	1-11	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6
240	1-5	1-7	1-10	2-1	2-4	2-6	2-9	2-11	3-1	3-3	3-6	3-8	3-10
250	1-6	1-9	1-11	2-3	2-7	2-9	2-11	3-2	3-4	3-7	3-9	3-11	4-2
260	1-8	1-10	2-1	2-5	2-9	3-0	3-2	3-5	3-7	3-10	4-1	4-3	4-6
270	1-9	2-0	2-3	2-7	3-0	3-2	3-5	3-8	3-11	4-2	4-4	4-7	4-10
280	1-11	2-2	2-5	2-9	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-3
290	2-1	2-4	2-7	3-0	3-5	3-8	3-11	4-2	4-6	4-9	5-0	5-4	5-7
300	2-2	2-6	2-10	3-2	3-8	3-11	4-3	4-6	4-9	5-1	5-5	5-8	6-0
310	2-4	2-8	3-0	3-5	3-11	4-2	4-6	4-10	5-1	5-5	5-9	6-1	6-5
320	2-6	2-10	3-2	3-8	4-2	4-6	4-9	5-1	5-5	5-9	6-1	6-5	6-10
330	2-8	3-0	3-5	3-10	4-5	4-9	5-1	5-5	5-9	6-2	6-6	6-10	7-3
340	2-10	3-2	3-7	4-1	4-8	5-0	5-5	5-9	6-2	6-6	6-11	7-3	7-8
350	3-0	3-4	3-10	4-4	5-0	5-4	5-9	6-1	6-6	6-11	7-4	7-9	8-1

Ruling Span (Feet)	205		ARBUTUS - INITIAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Initial Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3888.	3461.	3048.	2661.	2313.	2158.	2015.	1886.	1770.	1666.	1573.	1490.	1416.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.00	3.18	3.39	3.63	3.89	4.03	4.17	4.31	4.45	4.59	4.72	4.85	4.98
50	.73	.78	.83	.89	.95	.98	1.02	1.05	1.09	1.12	1.15	1.18	1.21
75	1.10	1.16	1.24	1.33	1.42	1.47	1.53	1.58	1.63	1.68	1.73	1.78	1.82
100	1.47	1.55	1.65	1.77	1.90	1.97	2.03	2.10	2.17	2.24	2.30	2.37	2.43
120	1.76	1.86	1.99	2.13	2.28	2.36	2.44	2.52	2.61	2.69	2.76	2.84	2.91
140	2.05	2.17	2.32	2.48	2.66	2.75	2.85	2.94	3.04	3.13	3.22	3.31	3.40
160	2.34	2.48	2.65	2.83	3.04	3.15	3.26	3.37	3.47	3.58	3.69	3.79	3.89
180	2.64	2.80	2.98	3.19	3.42	3.54	3.66	3.79	3.91	4.03	4.15	4.26	4.37
200	2.93	3.11	3.31	3.54	3.80	3.93	4.07	4.21	4.34	4.48	4.61	4.73	4.86
210	3.08	3.26	3.47	3.72	3.99	4.13	4.27	4.42	4.56	4.70	4.84	4.97	5.10
220	3.22	3.42	3.64	3.90	4.18	4.33	4.48	4.63	4.78	4.92	5.07	5.21	5.34
230	3.37	3.57	3.81	4.07	4.37	4.52	4.68	4.84	4.99	5.15	5.30	5.44	5.59
240	3.52	3.73	3.97	4.25	4.56	4.72	4.88	5.05	5.21	5.37	5.53	5.68	5.83
250	3.66	3.88	4.14	4.43	4.75	4.92	5.09	5.26	5.43	5.60	5.76	5.92	6.07
260	3.81	4.04	4.30	4.60	4.94	5.11	5.29	5.47	5.65	5.82	5.99	6.15	6.31
270	3.96	4.19	4.47	4.78	5.13	5.31	5.49	5.68	5.86	6.04	6.22	6.39	6.56
280	4.10	4.35	4.63	4.96	5.32	5.51	5.70	5.89	6.08	6.27	6.45	6.63	6.80
290	4.25	4.50	4.80	5.14	5.51	5.70	5.90	6.10	6.30	6.49	6.68	6.87	7.04
300	4.40	4.66	4.96	5.31	5.70	5.90	6.11	6.31	6.51	6.72	6.91	7.10	7.29
310	4.54	4.81	5.13	5.49	5.89	6.10	6.31	6.52	6.73	6.94	7.14	7.34	7.53
320	4.69	4.97	5.30	5.67	6.08	6.29	6.51	6.73	6.95	7.16	7.37	7.58	7.77
330	4.83	5.12	5.46	5.84	6.27	6.49	6.72	6.94	7.17	7.39	7.60	7.81	8.01
340	4.98	5.28	5.63	6.02	6.46	6.69	6.92	7.15	7.38	7.61	7.83	8.05	8.26
350	5.13	5.43	5.79	6.20	6.65	6.88	7.12	7.36	7.60	7.84	8.06	8.29	8.50

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	220		ARBUTUS - INITIAL		
Conductor Condition	795 kcmil AAC - Arbutus Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3899.	3480.	3076.	2701.	2364.	2214.	2076.	1950.	1836.	1734.	1642.	1560.	1485.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-4	2-6	2-8	2-10	2-11	3-1
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
75	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5
100	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
120	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
140	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-3
160	0-8	0-9	0-10	0-11	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8
180	0-10	0-11	1-0	1-2	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
200	1-0	1-1	1-3	1-5	1-7	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7
210	1-1	1-3	1-5	1-7	1-9	1-11	2-0	2-2	2-3	2-5	2-7	2-8	2-10
220	1-2	1-4	1-6	1-9	1-11	2-1	2-3	2-4	2-6	2-8	2-10	2-11	3-1
230	1-4	1-6	1-8	1-10	2-2	2-3	2-5	2-7	2-9	2-11	3-1	3-2	3-4
240	1-5	1-7	1-9	2-0	2-4	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8
250	1-6	1-9	1-11	2-2	2-6	2-8	2-10	3-0	3-3	3-5	3-7	3-9	4-0
260	1-8	1-10	2-1	2-5	2-9	2-11	3-1	3-3	3-6	3-8	3-11	4-1	4-3
270	1-9	2-0	2-3	2-7	2-11	3-1	3-4	3-6	3-9	4-0	4-2	4-5	4-7
280	1-11	2-2	2-5	2-9	3-2	3-4	3-7	3-10	4-0	4-3	4-6	4-9	5-0
290	2-1	2-4	2-7	2-11	3-4	3-7	3-10	4-1	4-4	4-7	4-10	5-1	5-4
300	2-2	2-5	2-9	3-2	3-7	3-10	4-1	4-4	4-7	4-11	5-2	5-5	5-8
310	2-4	2-7	2-11	3-4	3-10	4-1	4-4	4-8	4-11	5-3	5-6	5-10	6-1
320	2-6	2-9	3-2	3-7	4-1	4-4	4-8	4-11	5-3	5-7	5-10	6-2	6-6
330	2-8	3-0	3-4	3-10	4-4	4-8	4-11	5-3	5-7	5-11	6-3	6-7	6-11
340	2-10	3-2	3-7	4-0	4-7	4-11	5-3	5-7	5-11	6-3	6-7	7-0	7-4
350	3-0	3-4	3-9	4-3	4-11	5-2	5-7	5-11	6-3	6-8	7-0	7-4	7-9

Ruling Span (Feet)	220		ARBUTUS - INITIAL			Design Condition				4750 lb. r
						Conductor Condition		795 kcmil AAC - Arbut Initial Sag & Tension		
Temp (°F)	20	30	40	50	60	65	70	75	80	85
Tension (lbs)	3899.	3480.	3076.	2701.	2364.	2214.	2076.	1950.	1836.	1734.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.22	3.41	3.62	3.87	4.13	4.27	4.41	4.55	4.69	4.83
50	.73	.77	.82	.88	.94	.97	1.00	1.03	1.07	1.10
75	1.10	1.16	1.24	1.32	1.41	1.46	1.50	1.55	1.60	1.65
100	1.46	1.55	1.65	1.76	1.88	1.94	2.01	2.07	2.13	2.19
120	1.76	1.86	1.98	2.11	2.25	2.33	2.41	2.48	2.56	2.63
140	2.05	2.17	2.31	2.46	2.63	2.72	2.81	2.90	2.98	3.07
160	2.34	2.48	2.64	2.81	3.01	3.11	3.21	3.31	3.41	3.51
180	2.63	2.79	2.96	3.16	3.38	3.49	3.61	3.72	3.84	3.95
200	2.93	3.10	3.29	3.52	3.76	3.88	4.01	4.14	4.26	4.39
210	3.07	3.25	3.46	3.69	3.95	4.08	4.21	4.34	4.48	4.61
220	3.22	3.41	3.62	3.87	4.13	4.27	4.41	4.55	4.69	4.83
230	3.36	3.56	3.79	4.04	4.32	4.47	4.61	4.76	4.90	5.05
240	3.51	3.72	3.95	4.22	4.51	4.66	4.81	4.97	5.12	5.27
250	3.66	3.87	4.12	4.39	4.70	4.85	5.01	5.17	5.33	5.49
260	3.80	4.03	4.28	4.57	4.88	5.05	5.21	5.38	5.54	5.70
270	3.95	4.18	4.45	4.75	5.07	5.24	5.41	5.59	5.76	5.92
280	4.10	4.34	4.61	4.92	5.26	5.44	5.61	5.79	5.97	6.14
290	4.24	4.49	4.78	5.10	5.45	5.63	5.82	6.00	6.18	6.36
300	4.39	4.65	4.94	5.27	5.64	5.83	6.02	6.21	6.40	6.58
310	4.54	4.80	5.11	5.45	5.82	6.02	6.22	6.41	6.61	6.80
320	4.68	4.96	5.27	5.63	6.01	6.21	6.42	6.62	6.82	7.02
330	4.83	5.11	5.44	5.80	6.20	6.41	6.62	6.83	7.04	7.24
340	4.97	5.27	5.60	5.98	6.39	6.60	6.82	7.03	7.25	7.46
350	5.12	5.42	5.76	6.15	6.58	6.80	7.02	7.24	7.46	7.68

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	235		ARBUTUS - INITIAL		
Conductor Condition	795 kcmil AAC - Arbutus Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3910.	3499.	3105.	2740.	2414.	2268.	2134.	2011.	1900.	1800.	1709.	1627.	1553.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-4	1-6	1-8	1-11	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3	3-4
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
75	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5
100	0-3	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8
120	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11
140	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
160	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7
180	0-10	0-11	1-0	1-2	1-4	1-4	1-6	1-7	1-8	1-9	1-10	1-11	2-0
200	1-0	1-1	1-3	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5
210	1-1	1-3	1-4	1-7	1-9	1-10	2-0	2-1	2-2	2-4	2-5	2-7	2-8
220	1-2	1-4	1-6	1-8	1-11	2-0	2-2	2-3	2-5	2-7	2-8	2-10	2-11
230	1-4	1-5	1-8	1-10	2-1	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-3
240	1-5	1-7	1-9	2-0	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-6
250	1-6	1-9	1-11	2-2	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-8	3-10
260	1-8	1-10	2-1	2-4	2-8	2-10	3-0	3-2	3-4	3-7	3-9	3-11	4-1
270	1-9	2-0	2-3	2-6	2-10	3-0	3-3	3-5	3-7	3-10	4-0	4-3	4-5
280	1-11	2-2	2-5	2-9	3-1	3-3	3-6	3-8	3-11	4-1	4-4	4-6	4-9
290	2-1	2-3	2-7	2-11	3-4	3-6	3-9	3-11	4-2	4-5	4-8	4-10	5-1
300	2-2	2-5	2-9	3-1	3-6	3-9	4-0	4-3	4-6	4-9	4-11	5-2	5-5
310	2-4	2-7	2-11	3-4	3-9	4-0	4-3	4-6	4-9	5-0	5-3	5-7	5-10
320	2-6	2-9	3-1	3-6	4-0	4-3	4-6	4-10	5-1	5-4	5-8	5-11	6-2
330	2-8	2-11	3-4	3-9	4-3	4-6	4-10	5-1	5-5	5-8	6-0	6-3	6-7
340	2-10	3-1	3-6	4-0	4-6	4-10	5-1	5-5	5-9	6-0	6-4	6-8	7-0
350	3-0	3-4	3-9	4-3	4-9	5-1	5-5	5-9	6-1	6-5	6-9	7-1	7-5

Ruling Span (Feet)	235		ARBUTUS - INITIAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Initial Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3910.	3499.	3105.	2740.	2414.	2268.	2134.	2011.	1900.	1800.	1709.	1627.	1553.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.43	3.63	3.85	4.10	4.37	4.51	4.65	4.79	4.93	5.06	5.19	5.32	5.45
50	.73	.77	.82	.87	.93	.96	.99	1.02	1.05	1.08	1.10	1.13	1.16
75	1.10	1.16	1.23	1.31	1.39	1.44	1.48	1.53	1.57	1.62	1.66	1.70	1.74
100	1.46	1.54	1.64	1.75	1.86	1.92	1.98	2.04	2.10	2.15	2.21	2.26	2.32
120	1.75	1.85	1.97	2.09	2.23	2.30	2.37	2.44	2.51	2.58	2.65	2.72	2.78
140	2.05	2.16	2.30	2.44	2.60	2.69	2.77	2.85	2.93	3.01	3.09	3.17	3.25
160	2.34	2.47	2.62	2.79	2.97	3.07	3.16	3.26	3.35	3.45	3.54	3.62	3.71
180	2.63	2.78	2.95	3.14	3.35	3.45	3.56	3.67	3.77	3.88	3.98	4.08	4.17
200	2.92	3.09	3.28	3.49	3.72	3.84	3.96	4.07	4.19	4.31	4.42	4.53	4.64
210	3.07	3.24	3.44	3.66	3.90	4.03	4.15	4.28	4.40	4.52	4.64	4.76	4.87
220	3.21	3.40	3.61	3.84	4.09	4.22	4.35	4.48	4.61	4.74	4.86	4.98	5.10
230	3.36	3.55	3.77	4.01	4.28	4.41	4.55	4.69	4.82	4.95	5.08	5.21	5.33
240	3.51	3.71	3.93	4.19	4.46	4.60	4.75	4.89	5.03	5.17	5.30	5.44	5.56
250	3.65	3.86	4.10	4.36	4.65	4.80	4.94	5.09	5.24	5.38	5.53	5.66	5.80
260	3.80	4.02	4.26	4.54	4.83	4.99	5.14	5.30	5.45	5.60	5.75	5.89	6.03
270	3.94	4.17	4.43	4.71	5.02	5.18	5.34	5.50	5.66	5.81	5.97	6.12	6.26
280	4.09	4.32	4.59	4.89	5.21	5.37	5.54	5.70	5.87	6.03	6.19	6.34	6.49
290	4.24	4.48	4.75	5.06	5.39	5.56	5.74	5.91	6.08	6.25	6.41	6.57	6.72
300	4.38	4.63	4.92	5.24	5.58	5.75	5.93	6.11	6.29	6.46	6.63	6.80	6.96
310	4.53	4.79	5.08	5.41	5.76	5.95	6.13	6.32	6.50	6.68	6.85	7.02	7.19
320	4.68	4.94	5.25	5.58	5.95	6.14	6.33	6.52	6.71	6.89	7.07	7.25	7.42
330	4.82	5.10	5.41	5.76	6.14	6.33	6.53	6.72	6.92	7.11	7.29	7.48	7.65
340	4.97	5.25	5.57	5.93	6.32	6.52	6.72	6.93	7.13	7.32	7.52	7.70	7.88
350	5.11	5.41	5.74	6.11	6.51	6.71	6.92	7.13	7.34	7.54	7.74	7.93	8.12

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	250		ARBUTUS - INITIAL		
Conductor Condition	795 kcmil AAC - Arbutus Initial Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3921.	3518.	3134.	2779.	2463.	2321.	2191.	2071.	1962.	1863.	1773.	1692.	1618.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-6	1-8	1-11	2-2	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-6	3-8
50	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
75	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-4
100	0-3	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-7
120	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-10
140	0-6	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
160	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-5	1-6
180	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11
200	1-0	1-1	1-3	1-5	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3	2-4
210	1-1	1-3	1-4	1-6	1-9	1-10	1-11	2-0	2-2	2-3	2-4	2-6	2-7
220	1-2	1-4	1-6	1-8	1-11	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10
230	1-4	1-5	1-7	1-10	2-1	2-2	2-4	2-5	2-7	2-8	2-10	3-0	3-1
240	1-5	1-7	1-9	2-0	2-3	2-4	2-6	2-8	2-9	2-11	3-1	3-3	3-4
250	1-6	1-8	1-11	2-2	2-5	2-7	2-8	2-10	3-0	3-2	3-4	3-6	3-8
260	1-8	1-10	2-1	2-4	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9	3-11
270	1-9	2-0	2-3	2-6	2-10	3-0	3-2	3-4	3-6	3-8	3-11	4-1	4-3
280	1-11	2-1	2-5	2-8	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4	4-7
290	2-1	2-3	2-7	2-10	3-3	3-5	3-7	3-10	4-1	4-3	4-6	4-8	4-11
300	2-2	2-5	2-9	3-1	3-5	3-8	3-11	4-1	4-4	4-7	4-9	5-0	5-3
310	2-4	2-7	2-11	3-3	3-8	3-11	4-2	4-4	4-7	4-10	5-1	5-4	5-7
320	2-6	2-9	3-1	3-6	3-11	4-2	4-5	4-8	4-11	5-2	5-5	5-8	5-11
330	2-8	2-11	3-3	3-8	4-2	4-5	4-8	4-11	5-3	5-6	5-9	6-1	6-4
340	2-10	3-1	3-6	3-11	4-5	4-8	5-0	5-3	5-6	5-10	6-2	6-5	6-9
350	2-11	3-3	3-8	4-2	4-8	5-0	5-3	5-7	5-10	6-2	6-6	6-10	7-1

Ruling Span (Feet)	250		ARBUTUS - FINAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Final Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3134.	2718.	2370.	2089.	1864.	1769.	1684.	1608.	1540.	1478.	1422.	1371.	1325.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	4.08	4.38	4.69	5.00	5.29	5.43	5.57	5.70	5.82	5.94	6.06	6.17	6.28
50	.82	.88	.94	1.00	1.06	1.09	1.11	1.14	1.16	1.19	1.21	1.23	1.25
75	1.22	1.31	1.41	1.50	1.59	1.63	1.67	1.71	1.75	1.78	1.82	1.85	1.88
100	1.63	1.75	1.88	2.00	2.12	2.17	2.23	2.28	2.33	2.38	2.42	2.47	2.51
120	1.96	2.10	2.25	2.40	2.54	2.61	2.67	2.73	2.79	2.85	2.91	2.96	3.01
140	2.28	2.45	2.63	2.80	2.96	3.04	3.12	3.19	3.26	3.33	3.39	3.45	3.51
160	2.61	2.80	3.00	3.20	3.39	3.48	3.56	3.64	3.73	3.80	3.88	3.95	4.02
180	2.94	3.15	3.38	3.60	3.81	3.91	4.01	4.10	4.19	4.28	4.36	4.44	4.52
200	3.26	3.50	3.75	4.00	4.23	4.34	4.45	4.56	4.66	4.75	4.85	4.93	5.02
210	3.43	3.68	3.94	4.20	4.44	4.56	4.67	4.78	4.89	4.99	5.09	5.18	5.27
220	3.59	3.86	4.13	4.40	4.66	4.78	4.90	5.01	5.12	5.23	5.33	5.43	5.52
230	3.75	4.03	4.32	4.60	4.87	5.00	5.12	5.24	5.36	5.47	5.57	5.68	5.77
240	3.92	4.21	4.50	4.80	5.08	5.21	5.34	5.47	5.59	5.70	5.81	5.92	6.03
250	4.08	4.38	4.69	5.00	5.29	5.43	5.57	5.70	5.82	5.94	6.06	6.17	6.28
260	4.24	4.56	4.88	5.20	5.50	5.65	5.79	5.92	6.05	6.18	6.30	6.42	6.53
270	4.41	4.73	5.07	5.40	5.71	5.87	6.01	6.15	6.29	6.42	6.54	6.66	6.78
280	4.57	4.91	5.25	5.60	5.93	6.08	6.23	6.38	6.52	6.65	6.78	6.91	7.03
290	4.73	5.08	5.44	5.80	6.14	6.30	6.46	6.61	6.75	6.89	7.03	7.16	7.28
300	4.90	5.26	5.63	6.00	6.35	6.52	6.68	6.84	6.99	7.13	7.27	7.40	7.53
310	5.06	5.43	5.82	6.20	6.56	6.73	6.90	7.06	7.22	7.37	7.51	7.65	7.78
320	5.22	5.61	6.00	6.40	6.77	6.95	7.12	7.29	7.45	7.61	7.75	7.90	8.03
330	5.39	5.78	6.19	6.60	6.98	7.17	7.35	7.52	7.68	7.84	8.00	8.14	8.29
340	5.55	5.96	6.38	6.80	7.20	7.39	7.57	7.75	7.92	8.08	8.24	8.39	8.54
350	5.71	6.13	6.57	7.00	7.41	7.60	7.79	7.97	8.15	8.32	8.48	8.64	8.79

Ruling Span (Feet)	250		ARBUTUS - INITIAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Initial Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3921.	3518.	3134.	2779.	2463.	2321.	2191.	2071.	1962.	1863.	1773.	1692.	1618.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.65	3.85	4.08	4.33	4.60	4.74	4.88	5.02	5.16	5.29	5.42	5.55	5.68
50	.73	.77	.82	.87	.92	.95	.98	1.00	1.03	1.06	1.08	1.11	1.14
75	1.09	1.16	1.22	1.30	1.38	1.42	1.46	1.51	1.55	1.59	1.63	1.67	1.70
100	1.46	1.54	1.63	1.73	1.84	1.90	1.95	2.01	2.06	2.12	2.17	2.22	2.27
120	1.75	1.85	1.96	2.08	2.21	2.28	2.34	2.41	2.47	2.54	2.60	2.66	2.72
140	2.04	2.16	2.28	2.43	2.58	2.65	2.73	2.81	2.89	2.96	3.04	3.11	3.18
160	2.33	2.46	2.61	2.77	2.95	3.03	3.12	3.21	3.30	3.39	3.47	3.55	3.63
180	2.63	2.77	2.94	3.12	3.31	3.41	3.51	3.61	3.71	3.81	3.90	4.00	4.09
200	2.92	3.08	3.26	3.47	3.68	3.79	3.90	4.01	4.12	4.23	4.34	4.44	4.54
210	3.06	3.23	3.43	3.64	3.87	3.98	4.10	4.22	4.33	4.44	4.56	4.66	4.77
220	3.21	3.39	3.59	3.81	4.05	4.17	4.29	4.42	4.54	4.66	4.77	4.89	5.00
230	3.36	3.54	3.75	3.99	4.23	4.36	4.49	4.62	4.74	4.87	4.99	5.11	5.22
240	3.50	3.70	3.92	4.16	4.42	4.55	4.68	4.82	4.95	5.08	5.21	5.33	5.45
250	3.65	3.85	4.08	4.33	4.60	4.74	4.88	5.02	5.16	5.29	5.42	5.55	5.68
260	3.79	4.00	4.24	4.51	4.79	4.93	5.08	5.22	5.36	5.50	5.64	5.77	5.90
270	3.94	4.16	4.41	4.68	4.97	5.12	5.27	5.42	5.57	5.71	5.86	6.00	6.13
280	4.08	4.31	4.57	4.85	5.15	5.31	5.47	5.62	5.78	5.93	6.07	6.22	6.36
290	4.23	4.47	4.73	5.03	5.34	5.50	5.66	5.82	5.98	6.14	6.29	6.44	6.59
300	4.38	4.62	4.90	5.20	5.52	5.69	5.86	6.02	6.19	6.35	6.51	6.66	6.81
310	4.52	4.77	5.06	5.37	5.71	5.88	6.05	6.22	6.39	6.56	6.73	6.89	7.04
320	4.67	4.93	5.22	5.55	5.89	6.07	6.25	6.42	6.60	6.77	6.94	7.11	7.27
330	4.81	5.08	5.39	5.72	6.07	6.26	6.44	6.63	6.81	6.99	7.16	7.33	7.50
340	4.96	5.24	5.55	5.89	6.26	6.45	6.64	6.83	7.01	7.20	7.38	7.55	7.72
350	5.11	5.39	5.71	6.07	6.44	6.64	6.83	7.03	7.22	7.41	7.59	7.77	7.95

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	145		RAVEN - FINAL	
Conductor Condition	*1/0 AWG ACSR - Raven Final Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1287.	1174.	1062.	951.	841.	787.	734.	682.	632.	583.	536.	491.	450.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-11
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
75	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
100	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5
120	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7
140	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10
160	0-5	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-1
180	0-6	0-7	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4
200	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-5	1-6	1-8
210	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-10
220	0-9	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0
230	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10	2-0	2-2
240	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-10	2-0	2-2	2-4
250	0-11	1-0	1-1	1-3	1-5	1-6	1-7	1-8	1-10	2-0	2-2	2-4	2-7
260	1-0	1-1	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-9
270	1-1	1-2	1-3	1-5	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-9	3-0
280	1-2	1-3	1-5	1-6	1-9	1-10	2-0	2-1	2-3	2-6	2-8	2-11	3-2
290	1-3	1-4	1-6	1-8	1-10	2-0	2-1	2-3	2-5	2-8	2-11	3-2	3-5
300	1-4	1-5	1-7	1-9	2-0	2-1	2-3	2-5	2-7	2-10	3-1	3-4	3-8
310	1-5	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-10	3-0	3-4	3-7	3-11
320	1-6	1-7	1-9	2-0	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-10	4-2
330	1-7	1-9	1-11	2-1	2-5	2-7	2-9	2-11	3-2	3-5	3-9	4-1	4-5
340	1-8	1-10	2-0	2-3	2-6	2-8	2-11	3-1	3-4	3-8	3-11	4-4	4-8
350	1-9	1-11	2-2	2-5	2-8	2-10	3-1	3-4	3-7	3-10	4-2	4-7	5-0

Ruling Span (Feet)	145		RAVEN - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG ACSR - Raven Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1287.	1174.	1062.	951.	841.	787.	734.	682.	632.	583.	536.	491.	450.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	1.63	1.70	1.79	1.89	2.01	2.08	2.15	2.23	2.32	2.42	2.52	2.63	2.75
50	.56	.59	.62	.65	.69	.72	.74	.77	.80	.83	.87	.91	.95
75	.84	.88	.93	.98	1.04	1.08	1.11	1.16	1.20	1.25	1.30	1.36	1.42
100	1.12	1.17	1.24	1.31	1.39	1.43	1.49	1.54	1.60	1.67	1.74	1.82	1.90
120	1.35	1.41	1.48	1.57	1.67	1.72	1.78	1.85	1.92	2.00	2.09	2.18	2.28
140	1.57	1.64	1.73	1.83	1.94	2.01	2.08	2.16	2.24	2.33	2.43	2.54	2.66
160	1.80	1.88	1.98	2.09	2.22	2.30	2.38	2.47	2.56	2.67	2.78	2.91	3.04
180	2.02	2.11	2.22	2.35	2.50	2.58	2.67	2.77	2.88	3.00	3.13	3.27	3.42
200	2.24	2.35	2.47	2.61	2.78	2.87	2.97	3.08	3.20	3.34	3.48	3.63	3.80
210	2.36	2.47	2.59	2.74	2.92	3.01	3.12	3.24	3.36	3.50	3.65	3.81	3.99
220	2.47	2.58	2.72	2.87	3.05	3.16	3.27	3.39	3.52	3.67	3.83	4.00	4.18
230	2.58	2.70	2.84	3.00	3.19	3.30	3.42	3.54	3.68	3.84	4.00	4.18	4.37
240	2.69	2.82	2.97	3.13	3.33	3.44	3.57	3.70	3.84	4.00	4.17	4.36	4.56
250	2.81	2.94	3.09	3.26	3.47	3.59	3.71	3.85	4.00	4.17	4.35	4.54	4.75
260	2.92	3.05	3.21	3.40	3.61	3.73	3.86	4.01	4.16	4.34	4.52	4.72	4.94
270	3.03	3.17	3.34	3.53	3.75	3.87	4.01	4.16	4.32	4.50	4.70	4.90	5.13
280	3.14	3.29	3.46	3.66	3.89	4.02	4.16	4.32	4.49	4.67	4.87	5.09	5.32
290	3.25	3.41	3.58	3.79	4.03	4.16	4.31	4.47	4.65	4.84	5.04	5.27	5.51
300	3.37	3.53	3.71	3.92	4.16	4.30	4.46	4.62	4.81	5.00	5.22	5.45	5.70
310	3.48	3.64	3.83	4.05	4.30	4.45	4.61	4.78	4.97	5.17	5.39	5.63	5.89
320	3.59	3.76	3.95	4.18	4.44	4.59	4.75	4.93	5.13	5.34	5.57	5.81	6.08
330	3.70	3.88	4.08	4.31	4.58	4.74	4.90	5.09	5.29	5.50	5.74	5.99	6.27
340	3.82	4.00	4.20	4.44	4.72	4.88	5.05	5.24	5.45	5.67	5.91	6.18	6.46
350	3.93	4.11	4.32	4.57	4.86	5.02	5.20	5.39	5.61	5.84	6.09	6.36	6.64

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	160		RAVEN - FINAL	
Conductor Condition	1/0 AWG ACSR - Raven Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1262.	1149.	1038.	928.	820.	768.	716.	666.	617.	570.	526.	484.	445.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
75	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
100	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
120	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-8
140	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-9	0-9	0-10
160	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
180	0-6	0-7	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4
200	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8
210	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-10
220	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-10	2-0
230	0-10	0-11	1-0	1-1	1-3	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-2
240	0-10	0-11	1-1	1-2	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2	2-5
250	0-11	1-0	1-2	1-3	1-5	1-6	1-7	1-9	1-11	2-0	2-2	2-5	2-7
260	1-0	1-1	1-3	1-4	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-7	2-10
270	1-1	1-2	1-4	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-7	2-9	3-0
280	1-2	1-3	1-5	1-7	1-9	1-11	2-0	2-2	2-4	2-6	2-9	3-0	3-3
290	1-3	1-4	1-6	1-8	1-11	2-0	2-2	2-4	2-6	2-9	2-11	3-2	3-6
300	1-4	1-6	1-7	1-10	2-0	2-2	2-4	2-6	2-8	2-11	3-2	3-5	3-8
310	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-1	3-4	3-8	3-11
320	1-6	1-8	1-10	2-1	2-4	2-6	2-8	2-10	3-1	3-4	3-7	3-11	4-3
330	1-7	1-9	1-11	2-2	2-5	2-7	2-10	3-0	3-3	3-6	3-10	4-1	4-6
340	1-8	1-10	2-1	2-4	2-7	2-9	3-0	3-2	3-5	3-9	4-0	4-4	4-9
350	1-10	2-0	2-2	2-5	2-9	2-11	3-2	3-5	3-8	3-11	4-3	4-8	5-0

Ruling Span (Feet)	160		RAVEN - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG ACSR - Raven Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1262.	1149.	1038.	928.	820.	768.	716.	666.	617.	570.	526.	484.	445.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	1.81	1.90	2.00	2.11	2.25	2.33	2.41	2.50	2.59	2.70	2.81	2.93	3.05
50	.57	.59	.62	.66	.70	.73	.75	.78	.81	.84	.88	.92	.95
75	.85	.89	.94	.99	1.05	1.09	1.13	1.17	1.22	1.26	1.32	1.37	1.43
100	1.13	1.19	1.25	1.32	1.41	1.45	1.50	1.56	1.62	1.69	1.76	1.83	1.91
120	1.36	1.43	1.50	1.59	1.69	1.74	1.81	1.87	1.95	2.02	2.11	2.20	2.29
140	1.59	1.66	1.75	1.85	1.97	2.03	2.11	2.18	2.27	2.36	2.46	2.56	2.67
160	1.81	1.90	2.00	2.11	2.25	2.33	2.41	2.50	2.59	2.70	2.81	2.93	3.05
180	2.04	2.14	2.25	2.38	2.53	2.62	2.71	2.81	2.92	3.04	3.16	3.29	3.43
200	2.27	2.38	2.50	2.64	2.81	2.91	3.01	3.12	3.24	3.37	3.51	3.66	3.82
210	2.38	2.49	2.62	2.78	2.95	3.05	3.16	3.28	3.40	3.54	3.69	3.84	4.01
220	2.49	2.61	2.75	2.91	3.09	3.20	3.31	3.43	3.57	3.71	3.86	4.03	4.20
230	2.61	2.73	2.87	3.04	3.23	3.34	3.46	3.59	3.73	3.88	4.04	4.21	4.39
240	2.72	2.85	3.00	3.17	3.37	3.49	3.61	3.75	3.89	4.05	4.21	4.39	4.58
250	2.83	2.97	3.12	3.30	3.51	3.63	3.76	3.90	4.05	4.22	4.39	4.58	4.77
260	2.95	3.09	3.25	3.44	3.66	3.78	3.91	4.06	4.21	4.38	4.57	4.76	4.96
270	3.06	3.21	3.37	3.57	3.80	3.92	4.06	4.21	4.38	4.55	4.74	4.94	5.15
280	3.17	3.33	3.50	3.70	3.94	4.07	4.21	4.37	4.54	4.72	4.92	5.13	5.34
290	3.29	3.44	3.62	3.83	4.08	4.21	4.36	4.53	4.70	4.89	5.09	5.31	5.53
300	3.40	3.56	3.75	3.97	4.22	4.36	4.51	4.68	4.86	5.06	5.27	5.49	5.73
310	3.51	3.68	3.87	4.10	4.36	4.51	4.66	4.84	5.03	5.23	5.44	5.67	5.92
320	3.63	3.80	4.00	4.23	4.50	4.65	4.82	4.99	5.19	5.40	5.62	5.86	6.11
330	3.74	3.92	4.12	4.36	4.64	4.80	4.97	5.15	5.35	5.56	5.80	6.04	6.30
340	3.85	4.04	4.25	4.49	4.78	4.94	5.12	5.31	5.51	5.73	5.97	6.22	6.49
350	3.97	4.16	4.37	4.63	4.92	5.09	5.27	5.46	5.67	5.90	6.15	6.41	6.68

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	175		RAVEN - FINAL	
Conductor Condition	*1/0 AWG ACSR - Raven* *Final Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1233.	1122.	1011.	903.	797.	746.	696.	648.	601.	557.	515.	476.	440.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-4
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2
75	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
100	0-2	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5
120	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-8
140	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10
160	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-1
180	0-6	0-7	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-5
200	0-8	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8
210	0-8	0-9	0-10	0-11	1-1	1-1	1-2	1-3	1-4	1-6	1-7	1-9	1-10
220	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-11	2-0
230	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3
240	0-11	1-0	1-1	1-2	1-4	1-5	1-6	1-8	1-9	1-11	2-1	2-3	2-5
250	1-0	1-1	1-2	1-4	1-6	1-7	1-8	1-9	1-11	2-1	2-3	2-5	2-7
260	1-0	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-10
270	1-1	1-3	1-4	1-6	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-10	3-1
280	1-2	1-4	1-5	1-7	1-10	1-11	2-1	2-3	2-5	2-7	2-10	3-0	3-3
290	1-3	1-5	1-7	1-9	1-11	2-1	2-3	2-5	2-7	2-9	3-0	3-3	3-6
300	1-4	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	3-0	3-3	3-6	3-9
310	1-5	1-7	1-9	2-0	2-3	2-5	2-7	2-9	2-11	3-2	3-5	3-8	4-0
320	1-7	1-8	1-11	2-1	2-4	2-6	2-8	2-11	3-2	3-4	3-8	3-11	4-3
330	1-8	1-10	2-0	2-3	2-6	2-8	2-11	3-1	3-4	3-7	3-10	4-2	4-6
340	1-9	1-11	2-1	2-4	2-8	2-10	3-1	3-3	3-6	3-10	4-1	4-5	4-10
350	1-10	2-0	2-3	2-6	2-10	3-0	3-3	3-6	3-9	4-0	4-4	4-8	5-1

Ruling Span (Feet)	175		RAVEN - FINAL		Design Condition: 1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								
					Conductor Condition: 1/0 AWG ACSR - Raven Final Sag & Tension								
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1233.	1122.	1011.	903.	797.	746.	696.	648.	601.	557.	515.	476.	440.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.01	2.10	2.22	2.34	2.50	2.58	2.67	2.77	2.87	2.99	3.10	3.23	3.36
50	.57	.60	.63	.67	.71	.74	.78	.79	.82	.85	.89	.92	.96
75	.86	.90	.95	1.00	1.07	1.11	1.14	1.19	1.23	1.28	1.33	1.38	1.44
100	1.15	1.20	1.27	1.34	1.43	1.47	1.53	1.58	1.64	1.71	1.77	1.84	1.92
120	1.38	1.44	1.52	1.61	1.71	1.77	1.83	1.90	1.97	2.05	2.13	2.21	2.30
140	1.61	1.68	1.77	1.88	2.00	2.06	2.14	2.21	2.30	2.39	2.48	2.58	2.69
160	1.83	1.92	2.03	2.14	2.28	2.36	2.44	2.53	2.63	2.73	2.84	2.95	3.07
180	2.06	2.16	2.28	2.41	2.57	2.65	2.75	2.85	2.96	3.07	3.19	3.32	3.45
200	2.29	2.40	2.53	2.68	2.85	2.95	3.05	3.16	3.28	3.41	3.55	3.69	3.84
210	2.41	2.52	2.66	2.81	2.99	3.10	3.20	3.32	3.45	3.58	3.73	3.87	4.03
220	2.52	2.64	2.79	2.95	3.14	3.24	3.36	3.48	3.61	3.75	3.90	4.06	4.22
230	2.64	2.77	2.91	3.08	3.28	3.39	3.51	3.64	3.78	3.92	4.08	4.24	4.41
240	2.75	2.89	3.04	3.22	3.42	3.54	3.66	3.80	3.94	4.09	4.26	4.43	4.60
250	2.87	3.01	3.17	3.35	3.56	3.68	3.81	3.95	4.10	4.27	4.43	4.61	4.80
260	2.98	3.13	3.29	3.48	3.71	3.83	3.97	4.11	4.27	4.44	4.61	4.80	4.99
270	3.10	3.25	3.42	3.62	3.85	3.98	4.12	4.27	4.43	4.61	4.79	4.98	5.18
280	3.21	3.37	3.55	3.75	3.99	4.13	4.27	4.43	4.60	4.78	4.97	5.17	5.37
290	3.33	3.49	3.67	3.89	4.13	4.27	4.43	4.59	4.76	4.95	5.14	5.35	5.56
300	3.44	3.61	3.80	4.02	4.28	4.42	4.58	4.75	4.93	5.12	5.32	5.54	5.76
310	3.55	3.73	3.92	4.15	4.42	4.57	4.73	4.90	5.09	5.29	5.50	5.72	5.95
320	3.67	3.85	4.05	4.29	4.56	4.72	4.88	5.06	5.25	5.46	5.68	5.90	6.14
330	3.78	3.97	4.18	4.42	4.71	4.86	5.04	5.22	5.42	5.63	5.85	6.09	6.33
340	3.90	4.09	4.30	4.56	4.85	5.01	5.19	5.38	5.58	5.80	6.03	6.27	6.52
350	4.01	4.21	4.43	4.69	4.99	5.16	5.34	5.54	5.75	5.97	6.21	6.46	6.72

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	190		RAVEN - FINAL	
Conductor Condition	*1/0 AWG ACSR - Raven Final Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1197.	1087.	978.	872.	769.	720.	672.	626.	582.	540.	501.	466.	433.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-7	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
75	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
100	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
120	0-3	0-3	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8
140	0-4	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-10	0-10
160	0-5	0-6	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-11	1-0	1-0	1-1
180	0-6	0-7	0-8	0-9	0-10	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5
200	0-8	0-9	0-9	0-10	1-0	1-1	1-1	1-2	1-3	1-5	1-6	1-7	1-9
210	0-9	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-8	1-9	1-11
220	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-1
230	0-10	0-11	1-0	1-2	1-3	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-3
240	0-11	1-0	1-1	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5
250	1-0	1-1	1-2	1-4	1-6	1-7	1-9	1-10	2-0	2-2	2-4	2-6	2-8
260	1-1	1-2	1-4	1-5	1-8	1-9	1-10	2-0	2-2	2-4	2-6	2-8	2-10
270	1-2	1-3	1-5	1-7	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-1
280	1-3	1-4	1-6	1-8	1-11	2-0	2-2	2-4	2-6	2-8	2-11	3-1	3-4
290	1-4	1-5	1-7	1-9	2-0	2-2	2-4	2-6	2-8	2-10	3-1	3-4	3-7
300	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-1	3-4	3-7	3-10
310	1-6	1-8	1-10	2-0	2-4	2-6	2-8	2-10	3-0	3-3	3-6	3-9	4-1
320	1-7	1-9	1-11	2-2	2-5	2-7	2-10	3-0	3-3	3-6	3-9	4-0	4-4
330	1-8	1-10	2-1	2-4	2-7	2-9	3-0	3-2	3-5	3-8	4-0	4-3	4-7
340	1-10	2-0	2-2	2-5	2-9	2-11	3-2	3-5	3-8	3-11	4-3	4-7	4-11
350	1-11	2-1	2-4	2-7	2-11	3-2	3-4	3-7	3-10	4-2	4-6	4-10	5-2

Ruling Span (Feet)	190		RAVEN - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG ACSR - Raven Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1197.	1087.	978.	872.	769.	720.	672.	626.	582.	540.	501.	466.	433.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.21	2.32	2.45	2.59	2.76	2.85	2.95	3.06	3.17	3.29	3.42	3.55	3.68
50	.58	.61	.64	.68	.73	.75	.78	.80	.83	.87	.90	.93	.97
75	.87	.92	.97	1.02	1.09	1.13	1.17	1.21	1.25	1.30	1.35	1.40	1.45
100	1.16	1.22	1.29	1.36	1.45	1.50	1.55	1.61	1.67	1.73	1.80	1.87	1.93
120	1.40	1.47	1.54	1.64	1.74	1.80	1.86	1.93	2.00	2.08	2.16	2.24	2.32
140	1.63	1.71	1.80	1.91	2.03	2.10	2.17	2.25	2.34	2.43	2.52	2.61	2.71
160	1.86	1.95	2.06	2.18	2.32	2.40	2.49	2.58	2.67	2.77	2.88	2.99	3.10
180	2.09	2.20	2.32	2.45	2.61	2.70	2.80	2.90	3.01	3.12	3.24	3.36	3.48
200	2.33	2.44	2.57	2.73	2.90	3.00	3.11	3.22	3.34	3.46	3.60	3.73	3.87
210	2.44	2.56	2.70	2.86	3.05	3.15	3.26	3.38	3.51	3.64	3.78	3.92	4.06
220	2.56	2.69	2.83	3.00	3.19	3.30	3.42	3.54	3.67	3.81	3.96	4.10	4.26
230	2.68	2.81	2.96	3.14	3.34	3.45	3.57	3.70	3.84	3.98	4.14	4.29	4.45
240	2.79	2.93	3.09	3.27	3.48	3.60	3.73	3.86	4.01	4.16	4.32	4.48	4.64
250	2.91	3.05	3.22	3.41	3.63	3.75	3.88	4.02	4.17	4.33	4.50	4.66	4.84
260	3.03	3.18	3.35	3.55	3.77	3.90	4.04	4.19	4.34	4.50	4.67	4.85	5.03
270	3.14	3.30	3.48	3.68	3.92	4.05	4.19	4.35	4.51	4.68	4.85	5.04	5.22
280	3.26	3.42	3.60	3.82	4.07	4.20	4.35	4.51	4.67	4.85	5.03	5.22	5.42
290	3.37	3.54	3.73	3.95	4.21	4.35	4.51	4.67	4.84	5.02	5.21	5.41	5.61
300	3.49	3.66	3.86	4.09	4.36	4.50	4.66	4.83	5.01	5.20	5.39	5.60	5.81
310	3.61	3.79	3.99	4.23	4.50	4.65	4.82	4.99	5.18	5.37	5.57	5.78	6.00
320	3.72	3.91	4.12	4.36	4.65	4.80	4.97	5.15	5.34	5.54	5.75	5.97	6.19
330	3.84	4.03	4.25	4.50	4.79	4.95	5.13	5.31	5.51	5.72	5.93	6.16	6.39
340	3.96	4.15	4.38	4.64	4.94	5.10	5.28	5.47	5.68	5.89	6.11	6.34	6.58
350	4.07	4.27	4.51	4.77	5.08	5.25	5.44	5.63	5.84	6.06	6.29	6.53	6.77

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	205		RAVEN - FINAL	
Conductor Condition	1/0 AWG ACSR - Raven Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1148.	1040.	933.	830.	731.	684.	639.	596.	555.	517.	482.	450.	421.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-9	1-10
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2
75	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
100	0-2	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-6
120	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-7	0-7	0-7	0-8
140	0-4	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11
160	0-5	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1	1-2
180	0-7	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-2	1-3	1-4	1-5
200	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9
210	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11
220	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-7	1-9	1-10	2-0	2-2
230	0-11	1-0	1-1	1-2	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-2	2-4
240	0-11	1-1	1-2	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-6
250	1-0	1-2	1-3	1-5	1-7	1-8	1-10	1-11	2-1	2-3	2-5	2-7	2-9
260	1-1	1-3	1-4	1-6	1-9	1-10	2-0	2-1	2-3	2-5	2-7	2-9	2-11
270	1-2	1-4	1-5	1-8	1-10	2-0	2-1	2-3	2-5	2-7	2-9	3-0	3-2
280	1-3	1-5	1-7	1-9	2-0	2-1	2-3	2-5	2-7	2-9	3-0	3-2	3-5
290	1-4	1-6	1-8	1-11	2-2	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-8
300	1-6	1-7	1-9	2-0	2-3	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-11
310	1-7	1-9	1-11	2-2	2-5	2-7	2-9	3-0	3-2	3-5	3-8	3-11	4-2
320	1-8	1-10	2-0	2-3	2-7	2-9	2-11	3-2	3-5	3-8	3-11	4-2	4-5
330	1-9	1-11	2-2	2-5	2-9	2-11	3-2	3-4	3-7	3-10	4-2	4-5	4-9
340	1-10	2-1	2-3	2-7	2-11	3-1	3-4	3-7	3-10	4-1	4-5	4-8	5-0
350	2-0	2-2	2-5	2-9	3-1	3-3	3-6	3-9	4-1	4-4	4-8	5-0	5-4

Ruling Span (Feet)	205		RAVEN - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG ACSR - Raven Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1148.	1040.	933.	830.	731.	684.	639.	596.	555.	517.	482.	450.	421.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.44	2.56	2.70	2.87	3.05	3.16	3.27	3.38	3.50	3.63	3.76	3.89	4.02
50	.59	.62	.66	.70	.74	.77	.80	.82	.85	.89	.92	.95	.98
75	.89	.94	.99	1.05	1.12	1.15	1.19	1.24	1.28	1.33	1.38	1.42	1.47
100	1.19	1.25	1.32	1.40	1.49	1.54	1.59	1.65	1.71	1.77	1.83	1.90	1.96
120	1.43	1.50	1.58	1.68	1.79	1.85	1.91	1.98	2.05	2.12	2.20	2.28	2.36
140	1.66	1.75	1.85	1.96	2.09	2.16	2.23	2.31	2.39	2.48	2.57	2.66	2.75
160	1.90	2.00	2.11	2.24	2.38	2.46	2.55	2.64	2.73	2.83	2.93	3.04	3.14
180	2.14	2.25	2.37	2.52	2.68	2.77	2.87	2.97	3.08	3.19	3.30	3.42	3.53
200	2.38	2.50	2.64	2.80	2.98	3.08	3.19	3.30	3.42	3.54	3.67	3.80	3.93
210	2.50	2.62	2.77	2.94	3.13	3.23	3.35	3.46	3.59	3.72	3.85	3.99	4.12
220	2.61	2.75	2.90	3.08	3.28	3.39	3.51	3.63	3.76	3.90	4.03	4.18	4.32
230	2.73	2.87	3.03	3.22	3.43	3.54	3.66	3.79	3.93	4.07	4.22	4.37	4.51
240	2.85	3.00	3.16	3.36	3.57	3.70	3.82	3.96	4.10	4.25	4.40	4.56	4.71
250	2.97	3.12	3.30	3.49	3.72	3.85	3.98	4.12	4.27	4.43	4.58	4.75	4.91
260	3.09	3.25	3.43	3.63	3.87	4.00	4.14	4.29	4.44	4.60	4.77	4.94	5.10
270	3.21	3.37	3.56	3.77	4.02	4.16	4.30	4.45	4.61	4.78	4.95	5.13	5.30
280	3.33	3.50	3.69	3.91	4.17	4.31	4.46	4.62	4.79	4.96	5.13	5.32	5.50
290	3.45	3.62	3.82	4.05	4.32	4.47	4.62	4.78	4.96	5.13	5.32	5.50	5.69
300	3.56	3.75	3.95	4.19	4.47	4.62	4.78	4.95	5.13	5.31	5.50	5.69	5.89
310	3.68	3.87	4.09	4.33	4.62	4.77	4.94	5.11	5.30	5.49	5.69	5.88	6.09
320	3.80	4.00	4.22	4.47	4.77	4.93	5.10	5.28	5.47	5.67	5.87	6.07	6.28
330	3.92	4.12	4.35	4.61	4.92	5.08	5.26	5.44	5.64	5.84	6.05	6.26	6.48
340	4.04	4.25	4.48	4.75	5.06	5.24	5.42	5.61	5.81	6.02	6.24	6.45	6.67
350	4.16	4.37	4.61	4.89	5.21	5.39	5.58	5.77	5.98	6.20	6.42	6.64	6.87

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	220		RAVEN - FINAL	
Conductor Condition	1/0 AWG ACSR - Raven Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1097.	990.	886.	787.	693.	649.	607.	567.	530.	496.	465.	436.	410.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-10	0-11	1-0	1-2	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-2
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2
75	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
100	0-2	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6
120	0-3	0-4	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-8	0-8
140	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11
160	0-6	0-6	0-7	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-2
180	0-7	0-8	0-8	0-9	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
200	0-8	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-10
210	0-9	0-10	0-11	1-1	1-2	1-3	1-4	1-5	1-7	1-8	1-9	1-11	2-0
220	0-10	0-11	1-0	1-2	1-4	1-5	1-6	1-7	1-8	1-10	1-11	2-1	2-2
230	0-11	1-0	1-1	1-3	1-5	1-6	1-7	1-9	1-10	2-0	2-1	2-3	2-5
240	1-0	1-1	1-3	1-4	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-7
250	1-1	1-2	1-4	1-6	1-8	1-9	1-11	2-0	2-2	2-4	2-6	2-8	2-10
260	1-2	1-3	1-5	1-7	1-10	1-11	2-1	2-2	2-4	2-6	2-8	2-10	3-0
270	1-3	1-5	1-6	1-9	1-11	2-1	2-3	2-4	2-6	2-8	2-11	3-1	3-3
280	1-4	1-6	1-8	1-10	2-1	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6
290	1-5	1-7	1-9	2-0	2-3	2-5	2-7	2-9	2-11	3-1	3-4	3-6	3-9
300	1-6	1-8	1-11	2-1	2-5	2-7	2-9	2-11	3-1	3-4	3-7	3-9	4-0
310	1-8	1-10	2-0	2-3	2-7	2-9	2-11	3-1	3-4	3-7	3-9	4-0	4-3
320	1-9	1-11	2-2	2-5	2-9	2-11	3-1	3-4	3-7	3-9	4-0	4-4	4-7
330	1-10	2-0	2-3	2-7	2-11	3-1	3-4	3-6	3-9	4-0	4-3	4-7	4-10
340	1-11	2-2	2-5	2-8	3-1	3-3	3-6	3-9	4-0	4-3	4-7	4-10	5-2
350	2-1	2-3	2-7	2-10	3-3	3-6	3-8	3-11	4-3	4-6	4-10	5-2	5-5

Ruling Span (Feet)	220		RAVEN - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG ACSR - Raven Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1044.	940.	839.	744.	656.	615.	577.	541.	508.	477.	449.	424.	401.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.74	2.89	3.06	3.25	3.46	3.57	3.69	3.81	3.93	4.06	4.18	4.30	4.42
50	.62	.66	.69	.74	.79	.81	.84	.87	.89	.92	.95	.98	1.01
75	.93	.99	1.04	1.11	1.18	1.22	1.26	1.30	1.34	1.38	1.42	1.47	1.51
100	1.25	1.31	1.39	1.48	1.57	1.62	1.68	1.73	1.79	1.84	1.90	1.96	2.01
120	1.50	1.58	1.67	1.77	1.89	1.95	2.01	2.08	2.14	2.21	2.28	2.35	2.41
140	1.74	1.84	1.95	2.07	2.20	2.27	2.35	2.42	2.50	2.58	2.66	2.74	2.82
160	1.99	2.10	2.22	2.36	2.52	2.60	2.68	2.77	2.86	2.95	3.04	3.13	3.22
180	2.24	2.36	2.50	2.66	2.83	2.92	3.02	3.12	3.22	3.32	3.42	3.52	3.62
200	2.49	2.63	2.78	2.95	3.14	3.25	3.35	3.46	3.57	3.69	3.80	3.91	4.02
210	2.62	2.76	2.92	3.10	3.30	3.41	3.52	3.64	3.75	3.87	3.99	4.11	4.22
220	2.74	2.89	3.06	3.25	3.46	3.57	3.69	3.81	3.93	4.06	4.18	4.30	4.42
230	2.87	3.02	3.20	3.39	3.62	3.73	3.86	3.98	4.11	4.24	4.37	4.50	4.63
240	2.99	3.15	3.34	3.54	3.77	3.90	4.02	4.16	4.29	4.42	4.56	4.69	4.83
250	3.12	3.28	3.47	3.69	3.93	4.06	4.19	4.33	4.47	4.61	4.75	4.89	5.03
260	3.24	3.41	3.61	3.84	4.09	4.22	4.36	4.50	4.65	4.79	4.94	5.09	5.23
270	3.36	3.55	3.75	3.98	4.24	4.38	4.53	4.67	4.83	4.98	5.13	5.28	5.43
280	3.49	3.68	3.89	4.13	4.40	4.55	4.69	4.85	5.00	5.16	5.32	5.48	5.63
290	3.61	3.81	4.03	4.28	4.56	4.71	4.86	5.02	5.18	5.35	5.51	5.67	5.83
300	3.74	3.94	4.17	4.43	4.72	4.87	5.03	5.19	5.36	5.53	5.70	5.87	6.03
310	3.86	4.07	4.31	4.58	4.87	5.03	5.20	5.37	5.54	5.72	5.89	6.06	6.24
320	3.99	4.20	4.45	4.72	5.03	5.19	5.37	5.54	5.72	5.90	6.08	6.26	6.44
330	4.11	4.33	4.59	4.87	5.19	5.36	5.53	5.71	5.90	6.08	6.27	6.46	6.64
340	4.24	4.47	4.73	5.02	5.34	5.52	5.70	5.89	6.08	6.27	6.46	6.65	6.84
350	4.36	4.60	4.86	5.17	5.50	5.68	5.87	6.06	6.26	6.45	6.65	6.85	7.04

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	235		RAVEN - FINAL	
Conductor Condition	1/0 AWG ACSR - Raven Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1044.	940.	839.	744.	656.	615.	577.	541.	508.	477.	449.	424.	401.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-0	1-1	1-3	1-5	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-5	2-6
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
75	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
100	0-3	0-3	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
120	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8
140	0-5	0-5	0-6	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-11	0-11
160	0-6	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-1	1-2	1-2
180	0-7	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-4	1-5	1-6
200	0-9	0-10	0-11	1-0	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10
210	0-10	0-11	1-0	1-1	1-3	1-4	1-5	1-6	1-7	1-9	1-10	1-11	2-0
220	0-11	1-0	1-1	1-3	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1	2-3
230	1-0	1-1	1-2	1-4	1-6	1-7	1-8	1-10	1-11	2-1	2-2	2-4	2-5
240	1-0	1-2	1-3	1-5	1-8	1-9	1-10	2-0	2-1	2-3	2-4	2-6	2-8
250	1-2	1-3	1-5	1-7	1-9	1-11	2-0	2-2	2-3	2-5	2-7	2-9	2-10
260	1-3	1-4	1-6	1-8	1-11	2-0	2-2	2-4	2-5	2-7	2-9	2-11	3-1
270	1-4	1-5	1-7	1-10	2-1	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-4
280	1-5	1-7	1-9	1-11	2-2	2-4	2-6	2-8	2-10	3-0	3-2	3-5	3-7
290	1-6	1-8	1-10	2-1	2-4	2-6	2-8	2-10	3-1	3-3	3-5	3-8	3-10
300	1-7	1-9	2-0	2-3	2-6	2-8	2-10	3-1	3-3	3-6	3-8	3-11	4-1
310	1-9	1-11	2-1	2-5	2-8	2-10	3-1	3-3	3-6	3-8	3-11	4-2	4-5
320	1-10	2-0	2-3	2-6	2-10	3-1	3-3	3-6	3-8	3-11	4-2	4-5	4-8
330	1-11	2-2	2-5	2-8	3-1	3-3	3-6	3-8	3-11	4-2	4-5	4-8	5-0
340	2-1	2-3	2-6	2-10	3-3	3-5	3-8	3-11	4-2	4-5	4-8	5-0	5-3
350	2-2	2-5	2-8	3-0	3-5	3-8	3-11	4-2	4-5	4-8	5-0	5-3	5-7

Ruling Span (Feet)	235		RAVEN - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG ACSR - Raven Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	1044.	940.	839.	744.	656.	615.	577.	541.	508.	477.	449.	424.	401.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.93	3.09	3.27	3.47	3.69	3.81	3.94	4.07	4.20	4.33	4.46	4.60	4.73
50	.62	.66	.69	.74	.79	.81	.84	.87	.89	.92	.95	.98	1.01
75	.93	.99	1.04	1.11	1.18	1.22	1.26	1.30	1.34	1.38	1.42	1.47	1.51
100	1.25	1.31	1.39	1.48	1.57	1.62	1.68	1.73	1.79	1.84	1.90	1.96	2.01
120	1.50	1.58	1.67	1.77	1.89	1.95	2.01	2.08	2.14	2.21	2.28	2.35	2.41
140	1.74	1.84	1.95	2.07	2.20	2.27	2.35	2.42	2.50	2.58	2.66	2.74	2.82
160	1.99	2.10	2.22	2.36	2.52	2.60	2.68	2.77	2.86	2.95	3.04	3.13	3.22
180	2.24	2.36	2.50	2.66	2.83	2.92	3.02	3.12	3.22	3.32	3.42	3.52	3.62
200	2.49	2.63	2.78	2.95	3.14	3.25	3.35	3.46	3.57	3.69	3.80	3.91	4.02
210	2.62	2.76	2.92	3.10	3.30	3.41	3.52	3.64	3.75	3.87	3.99	4.11	4.22
220	2.74	2.89	3.06	3.25	3.46	3.57	3.69	3.81	3.93	4.06	4.18	4.30	4.42
230	2.87	3.02	3.20	3.39	3.62	3.73	3.86	3.98	4.11	4.24	4.37	4.50	4.63
240	2.99	3.15	3.34	3.54	3.77	3.90	4.02	4.16	4.29	4.42	4.56	4.69	4.83
250	3.12	3.28	3.47	3.69	3.93	4.06	4.19	4.33	4.47	4.61	4.75	4.89	5.03
260	3.24	3.41	3.61	3.84	4.09	4.22	4.36	4.50	4.65	4.79	4.94	5.09	5.23
270	3.36	3.55	3.75	3.98	4.24	4.38	4.53	4.67	4.83	4.98	5.13	5.28	5.43
280	3.49	3.68	3.89	4.13	4.40	4.55	4.69	4.85	5.00	5.16	5.32	5.48	5.63
290	3.61	3.81	4.03	4.28	4.56	4.71	4.86	5.02	5.18	5.35	5.51	5.67	5.83
300	3.74	3.94	4.17	4.43	4.72	4.87	5.03	5.19	5.36	5.53	5.70	5.87	6.03
310	3.86	4.07	4.31	4.58	4.87	5.03	5.20	5.37	5.54	5.72	5.89	6.06	6.24
320	3.99	4.20	4.45	4.72	5.03	5.19	5.37	5.54	5.72	5.90	6.08	6.26	6.44
330	4.11	4.33	4.59	4.87	5.19	5.36	5.53	5.71	5.90	6.08	6.27	6.46	6.64
340	4.24	4.47	4.73	5.02	5.34	5.52	5.70	5.89	6.08	6.27	6.46	6.65	6.84
350	4.36	4.60	4.86	5.17	5.50	5.68	5.87	6.06	6.26	6.45	6.65	6.85	7.04

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	250		RAVEN - FINAL	
Conductor Condition	1/0 AWG ACSR - Raven Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	990.	889.	793.	703.	621.	584.	549.	517.	487.	460.	436.	413.	393.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-2	1-4	1-6	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-8	2-9	2-11
50	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-2	0-2	0-2	0-2	0-2	0-2
75	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-4
100	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6
120	0-4	0-4	0-4	0-5	0-6	0-6	0-6	0-7	0-7	0-7	0-8	0-8	0-8
140	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11
160	0-6	0-7	0-8	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3
180	0-8	0-8	0-9	0-11	1-0	1-1	1-1	1-2	1-3	1-4	1-5	1-6	1-6
200	0-9	0-10	0-11	1-1	1-3	1-3	1-4	1-5	1-6	1-7	1-8	1-10	1-11
210	0-10	0-11	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-9	1-11	2-0	2-1
220	0-11	1-0	1-2	1-3	1-5	1-7	1-8	1-9	1-10	1-11	2-1	2-2	2-3
230	1-0	1-1	1-3	1-5	1-7	1-8	1-9	1-11	2-0	2-2	2-3	2-4	2-6
240	1-1	1-3	1-4	1-6	1-9	1-10	1-11	2-1	2-2	2-4	2-5	2-7	2-8
250	1-2	1-4	1-6	1-8	1-10	2-0	2-1	2-3	2-4	2-6	2-8	2-9	2-11
260	1-3	1-5	1-7	1-9	2-0	2-2	2-3	2-5	2-7	2-8	2-10	3-0	3-2
270	1-5	1-6	1-9	1-11	2-2	2-4	2-5	2-7	2-9	2-11	3-1	3-3	3-5
280	1-6	1-8	1-10	2-1	2-4	2-6	2-8	2-9	2-11	3-2	3-4	3-6	3-8
290	1-7	1-9	2-0	2-3	2-6	2-8	2-10	3-0	3-2	3-4	3-7	3-9	3-11
300	1-8	1-11	2-1	2-4	2-8	2-10	3-0	3-2	3-5	3-7	3-9	4-0	4-2
310	1-10	2-0	2-3	2-6	2-10	3-0	3-3	3-5	3-7	3-10	4-0	4-3	4-6
320	1-11	2-2	2-5	2-8	3-0	3-3	3-5	3-8	3-10	4-1	4-4	4-6	4-9
330	2-0	2-3	2-6	2-10	3-3	3-5	3-8	3-10	4-1	4-4	4-7	4-10	5-1
340	2-2	2-5	2-8	3-0	3-5	3-8	3-10	4-1	4-4	4-7	4-10	5-1	5-5
350	2-3	2-6	2-10	3-2	3-7	3-10	4-1	4-4	4-7	4-10	5-2	5-5	5-8

Ruling Span (Feet)	250		RAVEN - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		1/0 AWG ACSR - Raven Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	990.	889.	793.	703.	621.	584.	549.	517.	487.	460.	436.	413.	393.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.20	3.38	3.58	3.80	4.04	4.17	4.30	4.43	4.56	4.69	4.82	4.95	5.08
50	.64	.68	.72	.76	.81	.83	.86	.89	.91	.94	.96	.99	1.02
75	.96	1.01	1.07	1.14	1.21	1.25	1.29	1.33	1.37	1.41	1.45	1.49	1.52
100	1.28	1.35	1.43	1.52	1.62	1.67	1.72	1.77	1.82	1.88	1.93	1.98	2.03
120	1.54	1.62	1.72	1.82	1.94	2.00	2.06	2.12	2.19	2.25	2.32	2.38	2.44
140	1.79	1.89	2.00	2.13	2.26	2.33	2.41	2.48	2.55	2.63	2.70	2.77	2.84
160	2.05	2.16	2.29	2.43	2.58	2.67	2.75	2.83	2.92	3.00	3.09	3.17	3.25
180	2.30	2.43	2.57	2.73	2.91	3.00	3.09	3.19	3.28	3.38	3.47	3.57	3.66
200	2.56	2.70	2.86	3.04	3.23	3.33	3.44	3.54	3.65	3.75	3.86	3.96	4.06
210	2.69	2.84	3.00	3.19	3.39	3.50	3.61	3.72	3.83	3.94	4.05	4.16	4.27
220	2.82	2.97	3.15	3.34	3.55	3.67	3.78	3.90	4.01	4.13	4.24	4.36	4.47
230	2.94	3.11	3.29	3.49	3.72	3.83	3.95	4.07	4.19	4.32	4.44	4.56	4.67
240	3.07	3.24	3.43	3.64	3.88	4.00	4.12	4.25	4.38	4.50	4.63	4.75	4.88
250	3.20	3.38	3.58	3.80	4.04	4.17	4.30	4.43	4.56	4.69	4.82	4.95	5.08
260	3.33	3.51	3.72	3.95	4.20	4.33	4.47	4.60	4.74	4.88	5.02	5.15	5.28
270	3.46	3.65	3.86	4.10	4.36	4.50	4.64	4.78	4.92	5.07	5.21	5.35	5.49
280	3.58	3.78	4.00	4.25	4.52	4.67	4.81	4.96	5.11	5.26	5.40	5.55	5.69
290	3.71	3.92	4.15	4.40	4.68	4.83	4.98	5.14	5.29	5.44	5.60	5.75	5.89
300	3.84	4.05	4.29	4.56	4.85	5.00	5.15	5.31	5.47	5.63	5.79	5.94	6.10
310	3.97	4.19	4.43	4.71	5.01	5.17	5.33	5.49	5.65	5.82	5.98	6.14	6.30
320	4.10	4.32	4.58	4.86	5.17	5.33	5.50	5.67	5.84	6.01	6.17	6.34	6.50
330	4.22	4.46	4.72	5.01	5.33	5.50	5.67	5.84	6.02	6.19	6.37	6.54	6.71
340	4.35	4.59	4.86	5.16	5.49	5.67	5.84	6.02	6.20	6.38	6.56	6.74	6.91
350	4.48	4.73	5.01	5.32	5.65	5.83	6.01	6.20	6.38	6.57	6.75	6.93	7.11

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	145		OXLIP - FINAL	
Conductor Condition	*4/0 AWG AAC - Oxlip Final Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	994.	821.	665.	533.	433.	394.	361.	333.	310.	290.	273.	258.	245.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-7	0-8	0-10	1-0	1-3	1-4	1-6	1-7	1-9	1-10	1-11	2-1	2-2
50	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
75	0-2	0-3	0-3	0-4	0-4	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7
100	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-9	0-10	0-11	0-11	1-0	1-1
120	0-5	0-6	0-7	0-9	0-10	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-6
140	0-6	0-8	0-9	0-11	1-2	1-3	1-5	1-6	1-7	1-9	1-10	1-11	2-0
160	0-8	0-10	1-0	1-3	1-6	1-8	1-10	1-11	2-1	2-3	2-4	2-6	2-8
180	0-10	1-0	1-3	1-7	1-11	2-1	2-3	2-6	2-8	2-10	3-0	3-2	3-4
200	1-0	1-3	1-6	1-11	2-4	2-7	2-10	3-0	3-3	3-6	3-8	3-11	4-1
210	1-2	1-5	1-8	2-1	2-7	2-10	3-1	3-4	3-7	3-10	4-1	4-3	4-6
220	1-3	1-6	1-10	2-4	2-10	3-1	3-5	3-8	3-11	4-2	4-5	4-8	4-11
230	1-4	1-8	2-0	2-6	3-1	3-5	3-8	4-0	4-3	4-7	4-10	5-2	5-5
240	1-6	1-9	2-2	2-9	3-4	3-8	4-0	4-4	4-8	5-0	5-3	5-7	5-11
250	1-7	1-11	2-5	2-11	3-8	4-0	4-4	4-8	5-1	5-5	5-9	6-1	6-5
260	1-9	2-1	2-7	3-2	3-11	4-4	4-8	5-1	5-6	5-10	6-2	6-7	6-11
270	1-10	2-3	2-9	3-5	4-3	4-8	5-1	5-6	5-11	6-4	6-8	7-1	7-5
280	2-0	2-5	3-0	3-8	4-6	5-0	5-5	5-11	6-4	6-9	7-2	7-7	8-0
290	2-2	2-7	3-2	3-11	4-10	5-4	5-10	6-4	6-10	7-3	7-8	8-2	8-7
300	2-3	2-9	3-5	4-3	5-2	5-9	6-3	6-9	7-3	7-9	8-3	8-9	9-2
310	2-5	2-11	3-8	4-6	5-7	6-1	6-8	7-3	7-9	8-3	8-10	9-4	9-9
320	2-7	3-2	3-10	4-10	5-11	6-6	7-1	7-8	8-3	8-10	9-5	9-11	10-5
330	2-9	3-4	4-1	5-1	6-4	6-11	7-7	8-2	8-9	9-5	10-0	10-6	11-1
340	2-11	3-6	4-4	5-5	6-8	7-4	8-0	8-8	9-4	10-0	10-7	11-2	11-9
350	3-1	3-9	4-7	5-9	7-1	7-9	8-6	9-2	9-11	10-7	11-3	11-10	12-6

Ruling Span (Feet)	145		OXLIP - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	994.	821.	665.	533.	433.	394.	361.	333.	310.	290.	273.	258.	245.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.17	2.39	2.65	2.96	3.28	3.44	3.60	3.75	3.88	4.02	4.14	4.26	4.36
50	.75	.82	.91	1.02	1.13	1.19	1.24	1.29	1.34	1.38	1.43	1.47	1.50
75	1.12	1.23	1.37	1.53	1.70	1.78	1.86	1.94	2.01	2.08	2.14	2.20	2.26
100	1.50	1.65	1.83	2.04	2.27	2.38	2.48	2.58	2.68	2.77	2.85	2.93	3.01
120	1.79	1.97	2.19	2.45	2.72	2.85	2.98	3.10	3.21	3.32	3.43	3.52	3.61
140	2.09	2.30	2.56	2.86	3.17	3.33	3.47	3.62	3.75	3.88	4.00	4.11	4.21
160	2.39	2.63	2.93	3.27	3.62	3.80	3.97	4.13	4.29	4.43	4.57	4.70	4.82
180	2.69	2.96	3.29	3.67	4.08	4.28	4.47	4.65	4.82	4.98	5.14	5.28	5.42
200	2.99	3.29	3.66	4.08	4.53	4.75	4.96	5.17	5.36	5.54	5.71	5.87	6.02
210	3.14	3.45	3.84	4.29	4.76	4.99	5.21	5.42	5.63	5.82	5.99	6.16	6.32
220	3.29	3.62	4.02	4.49	4.98	5.23	5.46	5.68	5.89	6.09	6.28	6.46	6.62
230	3.44	3.78	4.21	4.69	5.21	5.46	5.71	5.94	6.16	6.37	6.57	6.75	6.93
240	3.59	3.95	4.39	4.90	5.44	5.70	5.96	6.20	6.43	6.65	6.85	7.04	7.23
250	3.74	4.11	4.57	5.10	5.66	5.94	6.21	6.46	6.70	6.92	7.14	7.34	7.53
260	3.89	4.28	4.75	5.31	5.89	6.18	6.45	6.72	6.97	7.20	7.42	7.63	7.83
270	4.04	4.44	4.94	5.51	6.12	6.42	6.70	6.98	7.23	7.48	7.71	7.93	8.13
280	4.19	4.61	5.12	5.71	6.34	6.65	6.95	7.23	7.50	7.76	7.99	8.22	8.43
290	4.34	4.77	5.30	5.92	6.57	6.89	7.20	7.49	7.77	8.03	8.28	8.51	8.73
300	4.49	4.94	5.49	6.12	6.80	7.13	7.45	7.75	8.04	8.31	8.57	8.81	9.03
310	4.64	5.10	5.67	6.33	7.02	7.37	7.70	8.01	8.31	8.59	8.85	9.10	9.34
320	4.79	5.26	5.85	6.53	7.25	7.60	7.94	8.27	8.58	8.86	9.14	9.40	9.64
330	4.93	5.43	6.03	6.74	7.48	7.84	8.19	8.53	8.84	9.14	9.42	9.69	9.94
340	5.08	5.59	6.22	6.94	7.70	8.08	8.44	8.79	9.11	9.42	9.71	9.98	10.24
350	5.23	5.76	6.40	7.14	7.93	8.32	8.69	9.04	9.38	9.70	10.00	10.28	10.54

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	160		OXLIP - FINAL	
Conductor Condition	4/0 AWG AAC - Oxlip Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	931.	769.	626.	511.	425.	391.	362.	338.	317.	299.	283.	269.	257.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-9	0-10	1-1	1-3	1-6	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
50	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
75	0-2	0-3	0-3	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
100	0-4	0-4	0-5	0-6	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0
120	0-5	0-6	0-7	0-9	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5
140	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-10	1-11
160	0-9	0-10	1-1	1-3	1-6	1-8	1-10	1-11	2-1	2-2	2-3	2-5	2-6
180	0-11	1-1	1-4	1-7	1-11	2-1	2-3	2-5	2-7	2-9	2-11	3-0	3-2
200	1-1	1-4	1-8	2-0	2-5	2-7	2-9	3-0	3-2	3-4	3-7	3-9	3-11
210	1-3	1-6	1-9	2-2	2-7	2-10	3-1	3-3	3-6	3-9	3-11	4-1	4-4
220	1-4	1-7	2-0	2-5	2-10	3-1	3-4	3-7	3-10	4-1	4-3	4-6	4-9
230	1-5	1-9	2-2	2-7	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2
240	1-7	1-11	2-4	2-10	3-5	3-8	4-0	4-3	4-7	4-10	5-1	5-4	5-7
250	1-9	2-1	2-6	3-1	3-8	4-0	4-4	4-8	4-11	5-3	5-6	5-10	6-1
260	1-10	2-3	2-9	3-4	4-0	4-4	4-8	5-0	5-4	5-8	6-0	6-3	6-7
270	2-0	2-5	2-11	3-7	4-4	4-8	5-0	5-5	5-9	6-1	6-5	6-9	7-1
280	2-2	2-7	3-2	3-10	4-8	5-0	5-5	5-10	6-2	6-7	6-11	7-3	7-7
290	2-3	2-9	3-5	4-2	5-0	5-5	5-10	6-3	6-8	7-0	7-5	7-10	8-2
300	2-5	2-11	3-7	4-5	5-4	5-9	6-3	6-8	7-1	7-6	7-11	8-4	8-9
310	2-7	3-2	3-10	4-9	5-8	6-2	6-8	7-1	7-7	8-0	8-6	8-11	9-4
320	2-9	3-4	4-1	5-0	6-0	6-7	7-1	7-7	8-1	8-7	9-0	9-6	9-11
330	2-11	3-7	4-4	5-4	6-5	7-0	7-6	8-1	8-7	9-1	9-7	10-1	10-7
340	3-1	3-9	4-8	5-8	6-10	7-5	8-0	8-7	9-1	9-8	10-2	10-9	11-3
350	3-4	4-0	4-11	6-0	7-2	7-10	8-5	9-1	9-8	10-3	10-10	11-4	11-11

Ruling Span (Feet)	160		OXLIP - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	931.	769.	626.	511.	425.	391.	362.	338.	317.	299.	283.	269.	257.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.47	2.72	3.01	3.33	3.66	3.81	3.96	4.10	4.24	4.36	4.48	4.60	4.70
50	.77	.85	.94	1.04	1.14	1.19	1.24	1.28	1.32	1.36	1.40	1.44	1.47
75	1.16	1.28	1.41	1.56	1.71	1.79	1.86	1.92	1.99	2.04	2.10	2.15	2.20
100	1.54	1.70	1.88	2.08	2.29	2.38	2.48	2.56	2.65	2.73	2.80	2.87	2.94
120	1.85	2.04	2.26	2.50	2.74	2.86	2.97	3.08	3.18	3.27	3.36	3.45	3.53
140	2.16	2.38	2.64	2.92	3.20	3.34	3.47	3.59	3.71	3.82	3.92	4.02	4.11
160	2.47	2.72	3.01	3.33	3.66	3.81	3.96	4.10	4.24	4.36	4.48	4.60	4.70
180	2.78	3.06	3.39	3.75	4.12	4.29	4.46	4.62	4.77	4.91	5.04	5.17	5.29
200	3.09	3.40	3.77	4.17	4.57	4.77	4.95	5.13	5.30	5.45	5.60	5.75	5.88
210	3.24	3.57	3.96	4.38	4.80	5.01	5.20	5.39	5.56	5.73	5.88	6.03	6.17
220	3.40	3.74	4.14	4.59	5.03	5.24	5.45	5.64	5.83	6.00	6.16	6.32	6.47
230	3.55	3.91	4.33	4.79	5.26	5.48	5.70	5.90	6.09	6.27	6.44	6.61	6.76
240	3.71	4.08	4.52	5.00	5.49	5.72	5.94	6.16	6.36	6.55	6.72	6.89	7.06
250	3.86	4.25	4.71	5.21	5.72	5.96	6.19	6.41	6.62	6.82	7.01	7.18	7.35
260	4.02	4.42	4.90	5.42	5.95	6.20	6.44	6.67	6.89	7.09	7.29	7.47	7.64
270	4.17	4.59	5.09	5.63	6.17	6.44	6.69	6.92	7.15	7.36	7.57	7.76	7.94
280	4.32	4.76	5.27	5.84	6.40	6.67	6.93	7.18	7.42	7.64	7.85	8.04	8.23
290	4.48	4.93	5.46	6.04	6.63	6.91	7.18	7.44	7.68	7.91	8.13	8.33	8.53
300	4.63	5.10	5.65	6.25	6.86	7.15	7.43	7.69	7.95	8.18	8.41	8.62	8.82
310	4.79	5.27	5.84	6.46	7.09	7.39	7.68	7.95	8.21	8.46	8.69	8.91	9.12
320	4.94	5.44	6.03	6.67	7.32	7.63	7.93	8.21	8.48	8.73	8.97	9.20	9.41
330	5.10	5.61	6.22	6.88	7.55	7.87	8.17	8.46	8.74	9.00	9.25	9.48	9.70
340	5.25	5.78	6.40	7.09	7.78	8.11	8.42	8.72	9.01	9.28	9.53	9.77	10.00
350	5.41	5.95	6.59	7.30	8.00	8.34	8.67	8.98	9.27	9.55	9.81	10.06	10.29

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	175		OXLIP - FINAL	
Conductor Condition	4/0 AWG AAC - Oxlip Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	870.	719.	593.	493.	419.	389.	364.	342.	323.	307.	292.	279.	268.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	0-11	1-1	1-4	1-7	1-10	2-0	2-2	2-3	2-5	2-6	2-8	2-9	2-11
50	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
75	0-2	0-3	0-3	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7
100	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-11	0-11	1-0
120	0-5	0-6	0-8	0-9	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-4	1-5
140	0-7	0-9	0-10	1-0	1-2	1-4	1-5	1-6	1-7	1-8	1-8	1-9	1-10
160	0-9	0-11	1-1	1-4	1-7	1-8	1-9	1-11	2-0	2-1	2-3	2-4	2-5
180	1-0	1-2	1-5	1-8	2-0	2-1	2-3	2-5	2-6	2-8	2-10	2-11	3-1
200	1-2	1-5	1-9	2-1	2-5	2-7	2-9	2-11	3-1	3-3	3-5	3-7	3-9
210	1-4	1-7	1-11	2-3	2-8	2-10	3-1	3-3	3-5	3-7	3-9	4-0	4-2
220	1-5	1-9	2-1	2-6	2-11	3-2	3-4	3-7	3-9	4-0	4-2	4-4	4-6
230	1-7	1-10	2-3	2-8	3-2	3-5	3-8	3-11	4-1	4-4	4-6	4-9	4-11
240	1-8	2-0	2-5	2-11	3-5	3-9	4-0	4-3	4-6	4-8	4-11	5-2	5-5
250	1-10	2-2	2-8	3-2	3-9	4-0	4-4	4-7	4-10	5-1	5-4	5-7	5-10
260	2-0	2-5	2-11	3-5	4-1	4-4	4-8	4-11	5-3	5-6	5-9	6-1	6-4
270	2-1	2-7	3-1	3-9	4-4	4-8	5-0	5-4	5-8	5-11	6-3	6-6	6-10
280	2-3	2-9	3-4	4-0	4-8	5-1	5-5	5-9	6-1	6-5	6-8	7-0	7-4
290	2-5	2-11	3-7	4-3	5-0	5-5	5-9	6-2	6-6	6-10	7-2	7-6	7-10
300	2-7	3-2	3-10	4-7	5-5	5-9	6-2	6-7	6-11	7-4	7-8	8-1	8-5
310	2-9	3-4	4-1	4-11	5-9	6-2	6-7	7-0	7-5	7-10	8-3	8-7	9-0
320	3-0	3-7	4-4	5-2	6-1	6-7	7-0	7-6	7-11	8-4	8-9	9-2	9-7
330	3-2	3-10	4-7	5-6	6-6	7-0	7-6	7-11	8-5	8-10	9-4	9-9	10-2
340	3-4	4-0	4-11	5-10	6-11	7-5	7-11	8-5	8-11	9-5	9-10	10-4	10-9
350	3-6	4-3	5-2	6-3	7-4	7-10	8-5	8-11	9-5	10-0	10-6	10-11	11-5

Ruling Span (Feet)	175		OXLIP - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	870.	719.	593.	493.	419.	389.	364.	342.	323.	307.	292.	279.	268.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.80	3.08	3.39	3.71	4.03	4.18	4.32	4.46	4.59	4.71	4.82	4.93	5.04
50	.80	.88	.97	1.06	1.15	1.19	1.23	1.27	1.31	1.35	1.38	1.41	1.44
75	1.20	1.32	1.45	1.59	1.73	1.79	1.85	1.91	1.97	2.02	2.07	2.11	2.16
100	1.60	1.76	1.94	2.12	2.30	2.39	2.47	2.55	2.62	2.69	2.76	2.82	2.88
120	1.92	2.11	2.32	2.55	2.76	2.87	2.96	3.06	3.14	3.23	3.31	3.38	3.46
140	2.24	2.46	2.71	2.97	3.22	3.34	3.46	3.57	3.67	3.77	3.86	3.95	4.03
160	2.56	2.81	3.10	3.40	3.69	3.82	3.95	4.08	4.19	4.30	4.41	4.51	4.61
180	2.88	3.16	3.49	3.82	4.15	4.30	4.45	4.59	4.72	4.84	4.96	5.08	5.18
200	3.20	3.51	3.87	4.25	4.61	4.78	4.94	5.10	5.24	5.38	5.51	5.64	5.76
210	3.36	3.69	4.07	4.46	4.84	5.02	5.19	5.35	5.50	5.65	5.79	5.92	6.05
220	3.52	3.87	4.26	4.67	5.07	5.26	5.43	5.60	5.77	5.92	6.07	6.20	6.34
230	3.68	4.04	4.45	4.88	5.30	5.49	5.68	5.86	6.03	6.19	6.34	6.49	6.62
240	3.84	4.22	4.65	5.09	5.53	5.73	5.93	6.11	6.29	6.46	6.62	6.77	6.91
250	4.00	4.39	4.84	5.31	5.76	5.97	6.18	6.37	6.55	6.73	6.89	7.05	7.20
260	4.16	4.57	5.03	5.52	5.99	6.21	6.42	6.62	6.82	7.00	7.17	7.33	7.49
270	4.32	4.75	5.23	5.73	6.22	6.45	6.67	6.88	7.08	7.27	7.45	7.62	7.78
280	4.48	4.92	5.42	5.94	6.45	6.69	6.92	7.13	7.34	7.54	7.72	7.90	8.07
290	4.64	5.10	5.62	6.16	6.68	6.93	7.16	7.39	7.60	7.80	8.00	8.18	8.35
300	4.80	5.27	5.81	6.37	6.91	7.17	7.41	7.64	7.86	8.07	8.27	8.46	8.64
310	4.95	5.45	6.00	6.58	7.14	7.41	7.66	7.90	8.13	8.34	8.55	8.74	8.93
320	5.11	5.62	6.20	6.79	7.37	7.64	7.91	8.15	8.39	8.61	8.83	9.03	9.22
330	5.27	5.80	6.39	7.01	7.60	7.88	8.15	8.41	8.65	8.88	9.10	9.31	9.51
340	5.43	5.98	6.58	7.22	7.83	8.12	8.40	8.66	8.91	9.15	9.38	9.59	9.80
350	5.59	6.15	6.78	7.43	8.06	8.36	8.65	8.92	9.18	9.42	9.65	9.87	10.08

Design Condition	*1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind*								Ruling Span (Feet)	190		OXLIP - FINAL	
Conductor Condition	*4/0 AWG AAC - Oxlip Final Sag & Tension*												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	810.	674.	564.	478.	414.	388.	366.	346.	329.	314.	301.	289.	278.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	1-2	1-4	1-8	1-11	2-2	2-4	2-6	2-8	2-9	2-11	3-0	3-2	3-3
50	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
75	0-3	0-3	0-3	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-7
100	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9	0-10	0-10	0-10	0-11	0-11
120	0-6	0-7	0-8	0-9	0-11	1-0	1-0	1-1	1-2	1-2	1-3	1-3	1-4
140	0-8	0-9	0-11	1-1	1-3	1-4	1-4	1-5	1-6	1-7	1-8	1-9	1-10
160	0-10	1-0	1-2	1-4	1-7	1-8	1-9	1-11	2-0	2-1	2-2	2-3	2-4
180	1-0	1-3	1-6	1-9	2-0	2-1	2-3	2-4	2-6	2-7	2-9	2-10	2-11
200	1-3	1-6	1-10	2-1	2-5	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-7
210	1-5	1-8	2-0	2-4	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	4-0
220	1-6	1-10	2-2	2-7	2-11	3-2	3-4	3-6	3-8	3-10	4-1	4-3	4-4
230	1-8	2-0	2-4	2-9	3-3	3-5	3-8	3-10	4-0	4-3	4-5	4-7	4-9
240	1-10	2-2	2-7	3-0	3-6	3-9	3-11	4-2	4-5	4-7	4-10	5-0	5-2
250	1-11	2-4	2-10	3-3	3-10	4-0	4-3	4-6	4-9	5-0	5-2	5-5	5-8
260	2-1	2-6	3-0	3-7	4-1	4-4	4-8	4-11	5-2	5-5	5-8	5-10	6-1
270	2-3	2-9	3-3	3-10	4-5	4-8	5-0	5-3	5-7	5-10	6-1	6-4	6-7
280	2-5	2-11	3-6	4-1	4-9	5-1	5-4	5-8	5-11	6-3	6-6	6-10	7-1
290	2-7	3-2	3-9	4-5	5-1	5-5	5-9	6-1	6-5	6-8	7-0	7-3	7-7
300	2-10	3-4	4-0	4-9	5-5	5-10	6-2	6-6	6-10	7-2	7-6	7-10	8-1
310	3-0	3-7	4-3	5-0	5-10	6-2	6-7	6-11	7-4	7-8	8-0	8-4	8-8
320	3-2	3-10	4-7	5-4	6-2	6-7	7-0	7-5	7-9	8-2	8-6	8-10	9-3
330	3-5	4-1	4-10	5-8	6-7	7-0	7-5	7-10	8-3	8-8	9-1	9-5	9-10
340	3-7	4-4	5-2	6-1	7-0	7-5	7-11	8-4	8-9	9-2	9-7	10-0	10-5
350	3-10	4-7	5-5	6-5	7-5	7-11	8-4	8-10	9-3	9-9	10-2	10-7	11-0

Ruling Span (Feet)	190		OXLIP - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	810.	674.	564.	478.	414.	388.	366.	346.	329.	314.	301.	289.	278.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.15	3.45	3.77	4.10	4.40	4.54	4.68	4.81	4.94	5.05	5.17	5.27	5.37
50	.83	.91	.99	1.08	1.16	1.20	1.23	1.27	1.30	1.33	1.36	1.39	1.41
75	1.24	1.36	1.49	1.62	1.74	1.79	1.85	1.90	1.95	1.99	2.04	2.08	2.12
100	1.66	1.82	1.99	2.16	2.32	2.39	2.46	2.53	2.60	2.66	2.72	2.77	2.83
120	1.99	2.18	2.38	2.59	2.78	2.87	2.96	3.04	3.12	3.19	3.26	3.33	3.39
140	2.32	2.54	2.78	3.02	3.24	3.35	3.45	3.55	3.64	3.72	3.81	3.88	3.96
160	2.65	2.90	3.18	3.45	3.71	3.83	3.94	4.05	4.16	4.26	4.35	4.44	4.53
180	2.98	3.27	3.57	3.88	4.17	4.31	4.43	4.56	4.68	4.79	4.89	5.00	5.09
200	3.31	3.63	3.97	4.31	4.63	4.78	4.93	5.06	5.20	5.32	5.44	5.55	5.66
210	3.48	3.81	4.17	4.53	4.86	5.02	5.17	5.32	5.46	5.59	5.71	5.83	5.94
220	3.64	3.99	4.37	4.74	5.10	5.26	5.42	5.57	5.71	5.85	5.98	6.11	6.22
230	3.81	4.17	4.57	4.96	5.33	5.50	5.67	5.82	5.97	6.12	6.25	6.38	6.51
240	3.97	4.36	4.77	5.17	5.56	5.74	5.91	6.08	6.23	6.38	6.53	6.66	6.79
250	4.14	4.54	4.96	5.39	5.79	5.98	6.16	6.33	6.49	6.65	6.80	6.94	7.07
260	4.31	4.72	5.16	5.61	6.02	6.22	6.41	6.58	6.75	6.92	7.07	7.22	7.36
270	4.47	4.90	5.36	5.82	6.25	6.46	6.65	6.84	7.01	7.18	7.34	7.49	7.64
280	4.64	5.08	5.56	6.04	6.49	6.70	6.90	7.09	7.27	7.45	7.61	7.77	7.92
290	4.80	5.26	5.76	6.25	6.72	6.94	7.15	7.35	7.53	7.71	7.89	8.05	8.21
300	4.97	5.45	5.96	6.47	6.95	7.18	7.39	7.60	7.79	7.98	8.16	8.33	8.49
310	5.13	5.63	6.16	6.68	7.18	7.42	7.64	7.85	8.05	8.25	8.43	8.61	8.77
320	5.30	5.81	6.35	6.90	7.41	7.66	7.89	8.11	8.31	8.51	8.70	8.88	9.06
330	5.46	5.99	6.55	7.11	7.65	7.89	8.13	8.36	8.57	8.78	8.97	9.16	9.34
340	5.63	6.17	6.75	7.33	7.88	8.13	8.38	8.61	8.83	9.05	9.25	9.44	9.62
350	5.80	6.35	6.95	7.55	8.11	8.37	8.63	8.87	9.09	9.31	9.52	9.72	9.91

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	205		OXLIP - FINAL	
Conductor Condition	4/0 AWG AAC - Oxlip Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	755.	635.	539.	466.	410.	388.	368.	350.	335.	321.	308.	297.	286.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-5	1-8	2-0	2-3	2-7	2-9	2-11	3-0	3-2	3-4	3-5	3-7	3-8
50	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
75	0-3	0-3	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6	0-6
100	0-4	0-5	0-6	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11	0-11
120	0-6	0-7	0-8	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
140	0-8	0-10	0-11	1-1	1-3	1-4	1-4	1-5	1-6	1-7	1-7	1-8	1-9
160	0-11	1-1	1-3	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3
180	1-1	1-4	1-6	1-9	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-9	2-10
200	1-4	1-7	1-11	2-2	2-6	2-7	2-9	2-11	3-0	3-2	3-3	3-5	3-6
210	1-6	1-9	2-1	2-5	2-9	2-10	3-0	3-2	3-4	3-6	3-7	3-9	3-10
220	1-8	1-11	2-3	2-7	3-0	3-2	3-4	3-6	3-8	3-10	3-11	4-1	4-3
230	1-9	2-1	2-6	2-10	3-3	3-5	3-7	3-10	4-0	4-2	4-4	4-6	4-8
240	1-11	2-4	2-8	3-1	3-6	3-9	3-11	4-2	4-4	4-6	4-8	4-10	5-0
250	2-1	2-6	2-11	3-4	3-10	4-1	4-3	4-6	4-8	4-11	5-1	5-3	5-6
260	2-3	2-8	3-2	3-8	4-2	4-4	4-7	4-10	5-1	5-3	5-6	5-8	5-11
270	2-5	2-11	3-5	3-11	4-5	4-9	5-0	5-3	5-5	5-8	5-11	6-2	6-4
280	2-7	3-1	3-8	4-3	4-9	5-1	5-4	5-7	5-10	6-1	6-4	6-7	6-10
290	2-10	3-4	3-11	4-6	5-2	5-5	5-9	6-0	6-3	6-7	6-10	7-1	7-4
300	3-0	3-7	4-2	4-10	5-6	5-10	6-1	6-5	6-9	7-0	7-4	7-7	7-10
310	3-2	3-10	4-6	5-2	5-10	6-2	6-6	6-10	7-2	7-6	7-10	8-1	8-5
320	3-5	4-1	4-9	5-6	6-3	6-7	7-0	7-4	7-8	8-0	8-4	8-7	8-11
330	3-8	4-4	5-1	5-10	6-8	7-0	7-5	7-9	8-2	8-6	8-10	9-2	9-6
340	3-10	4-7	5-4	6-2	7-1	7-5	7-10	8-3	8-8	9-0	9-4	9-9	10-1
350	4-1	4-10	5-8	6-7	7-6	7-11	8-4	8-9	9-2	9-6	9-11	10-4	10-8

Ruling Span (Feet)	205		OXLIP - FINAL		Design Condition		1500 lb. max tension a 4 lbs/f			
					Conductor Condition		4/0 AWG AAC - Oxlip Final Sag & Tension			
Temp (°F)	20	30	40	50	60	65	70	75	80	85
Tension (lbs)	755.	635.	539.	466.	410.	388.	368.	350.	335.	321.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.52	3.84	4.16	4.48	4.77	4.91	5.04	5.16	5.28	5.40
50	.86	.94	1.01	1.09	1.16	1.20	1.23	1.26	1.29	1.32
75	1.29	1.40	1.52	1.64	1.75	1.80	1.84	1.89	1.93	1.97
100	1.72	1.87	2.03	2.18	2.33	2.39	2.46	2.52	2.58	2.63
120	2.06	2.25	2.44	2.62	2.79	2.87	2.95	3.02	3.09	3.16
140	2.40	2.62	2.84	3.06	3.26	3.35	3.44	3.53	3.61	3.69
160	2.74	2.99	3.25	3.49	3.72	3.83	3.93	4.03	4.12	4.21
180	3.09	3.37	3.65	3.93	4.19	4.31	4.42	4.53	4.64	4.74
200	3.43	3.74	4.06	4.37	4.65	4.79	4.92	5.04	5.15	5.27
210	3.60	3.93	4.26	4.59	4.89	5.03	5.16	5.29	5.41	5.53
220	3.77	4.12	4.47	4.80	5.12	5.27	5.41	5.54	5.67	5.79
230	3.95	4.30	4.67	5.02	5.35	5.51	5.65	5.79	5.93	6.06
240	4.12	4.49	4.87	5.24	5.59	5.75	5.90	6.05	6.19	6.32
250	4.29	4.68	5.08	5.46	5.82	5.99	6.15	6.30	6.44	6.58
260	4.46	4.86	5.28	5.68	6.05	6.22	6.39	6.55	6.70	6.85
270	4.63	5.05	5.48	5.90	6.28	6.46	6.64	6.80	6.96	7.11
280	4.80	5.24	5.68	6.12	6.52	6.70	6.88	7.05	7.22	7.37
290	4.98	5.43	5.89	6.33	6.75	6.94	7.13	7.31	7.47	7.64
300	5.15	5.61	6.09	6.55	6.98	7.18	7.38	7.56	7.73	7.90
310	5.32	5.80	6.29	6.77	7.21	7.42	7.62	7.81	7.99	8.16
320	5.49	5.99	6.50	6.99	7.45	7.66	7.87	8.06	8.25	8.43
330	5.66	6.17	6.70	7.21	7.68	7.90	8.11	8.31	8.51	8.69
340	5.83	6.36	6.90	7.43	7.91	8.14	8.36	8.57	8.76	8.95
350	6.00	6.55	7.11	7.64	8.15	8.38	8.61	8.82	9.02	9.22

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	220		OXLIP - FINAL	
Conductor Condition	4/0 AWG AAC - Oxlip Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	705.	601.	519.	456.	407.	387.	369.	354.	339.	326.	315.	304.	294.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-9	2-1	2-4	2-8	3-0	3-2	3-4	3-5	3-7	3-9	3-10	4-0	4-2
50	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
75	0-3	0-3	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6
100	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-10	0-11
120	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2	1-3	1-3
140	0-9	0-10	1-0	1-1	1-3	1-4	1-4	1-5	1-6	1-6	1-7	1-8	1-8
160	0-11	1-1	1-3	1-5	1-7	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-2
180	1-2	1-5	1-7	1-10	2-0	2-1	2-3	2-4	2-5	2-6	2-7	2-8	2-9
200	1-5	1-8	1-11	2-3	2-6	2-7	2-9	2-10	3-0	3-1	3-2	3-4	3-5
210	1-7	1-10	2-2	2-5	2-9	2-10	3-0	3-2	3-3	3-5	3-6	3-8	3-9
220	1-9	2-1	2-4	2-8	3-0	3-2	3-4	3-5	3-7	3-9	3-10	4-0	4-2
230	1-11	2-3	2-7	2-11	3-3	3-5	3-7	3-9	3-11	4-1	4-3	4-4	4-6
240	2-1	2-5	2-10	3-2	3-7	3-9	3-11	4-1	4-3	4-5	4-7	4-9	4-11
250	2-3	2-8	3-0	3-5	3-10	4-1	4-3	4-5	4-7	4-10	5-0	5-2	5-4
260	2-5	2-10	3-3	3-9	4-2	4-5	4-7	4-10	5-0	5-2	5-5	5-7	5-9
270	2-7	3-1	3-6	4-0	4-6	4-9	4-11	5-2	5-5	5-7	5-10	6-0	6-2
280	2-10	3-3	3-10	4-4	4-10	5-1	5-4	5-7	5-9	6-0	6-3	6-5	6-8
290	3-0	3-6	4-1	4-8	5-2	5-5	5-8	5-11	6-2	6-5	6-8	6-11	7-2
300	3-3	3-9	4-4	4-11	5-6	5-10	6-1	6-4	6-8	6-11	7-2	7-5	7-8
310	3-5	4-0	4-8	5-3	5-11	6-2	6-6	6-10	7-1	7-4	7-8	7-11	8-2
320	3-8	4-3	4-11	5-7	6-3	6-7	6-11	7-3	7-7	7-10	8-2	8-5	8-8
330	3-11	4-7	5-3	6-0	6-8	7-0	7-4	7-8	8-0	8-4	8-8	8-11	9-3
340	4-1	4-10	5-7	6-4	7-1	7-6	7-10	8-2	8-6	8-10	9-2	9-6	9-10
350	4-4	5-1	5-11	6-9	7-6	7-11	8-3	8-8	9-0	9-4	9-9	10-1	10-5

Ruling Span (Feet)	220		OXLIP - FINAL		Design Condition		1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind						
					Conductor Condition		4/0 AWG AAC - Oxlip Final Sag & Tension						
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	705.	601.	519.	456.	407.	387.	369.	354.	339.	326.	315.	304.	294.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.91	4.23	4.55	4.86	5.14	5.27	5.40	5.52	5.63	5.74	5.85	5.95	6.04
50	.89	.96	1.03	1.10	1.17	1.20	1.23	1.25	1.28	1.30	1.33	1.35	1.37
75	1.33	1.44	1.55	1.66	1.75	1.80	1.84	1.88	1.92	1.96	1.99	2.03	2.06
100	1.78	1.92	2.07	2.21	2.34	2.40	2.45	2.51	2.56	2.61	2.66	2.70	2.75
120	2.13	2.31	2.48	2.65	2.80	2.87	2.94	3.01	3.07	3.13	3.19	3.24	3.30
140	2.49	2.69	2.90	3.09	3.27	3.35	3.43	3.51	3.58	3.65	3.72	3.78	3.85
160	2.84	3.08	3.31	3.53	3.74	3.83	3.92	4.01	4.09	4.17	4.25	4.32	4.40
180	3.20	3.46	3.72	3.97	4.20	4.31	4.41	4.51	4.61	4.70	4.78	4.87	4.95
200	3.55	3.85	4.14	4.42	4.67	4.79	4.90	5.01	5.12	5.22	5.31	5.41	5.49
210	3.73	4.04	4.35	4.64	4.90	5.03	5.15	5.26	5.37	5.48	5.58	5.68	5.77
220	3.91	4.23	4.55	4.86	5.14	5.27	5.40	5.52	5.63	5.74	5.85	5.95	6.04
230	4.08	4.42	4.76	5.08	5.37	5.51	5.64	5.77	5.89	6.00	6.11	6.22	6.32
240	4.26	4.62	4.97	5.30	5.61	5.75	5.89	6.02	6.14	6.26	6.38	6.49	6.59
250	4.44	4.81	5.17	5.52	5.84	5.99	6.13	6.27	6.40	6.52	6.64	6.76	6.87
260	4.62	5.00	5.38	5.74	6.07	6.23	6.38	6.52	6.65	6.78	6.91	7.03	7.14
270	4.79	5.19	5.59	5.96	6.31	6.47	6.62	6.77	6.91	7.05	7.18	7.30	7.42
280	4.97	5.39	5.79	6.18	6.54	6.71	6.87	7.02	7.17	7.31	7.44	7.57	7.69
290	5.15	5.58	6.00	6.40	6.77	6.95	7.11	7.27	7.42	7.57	7.71	7.84	7.97
300	5.33	5.77	6.21	6.62	7.01	7.19	7.36	7.52	7.68	7.83	7.97	8.11	8.24
310	5.50	5.96	6.42	6.84	7.24	7.43	7.60	7.77	7.94	8.09	8.24	8.38	8.52
320	5.68	6.15	6.62	7.07	7.47	7.67	7.85	8.02	8.19	8.35	8.51	8.65	8.79
330	5.86	6.35	6.83	7.29	7.71	7.91	8.09	8.27	8.45	8.61	8.77	8.92	9.07
340	6.04	6.54	7.04	7.51	7.94	8.15	8.34	8.53	8.70	8.87	9.04	9.19	9.34
350	6.21	6.73	7.24	7.73	8.18	8.39	8.59	8.78	8.96	9.14	9.30	9.46	9.62

Design Condition	1500 lb. max tension at 15°F with .25" ice and 4 lbs/ft² wind								Ruling Span (Feet)	250		OXLIP - FINAL	
Conductor Condition	4/0 AWG AAC - Oxlip Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	624.	548.	488.	441.	403.	387.	373.	359.	347.	336.	326.	317.	308.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	2-6	2-10	3-3	3-7	3-11	4-1	4-3	4-4	4-6	4-8	4-10	4-11	5-1
50	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
75	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-5	0-6	0-6	0-6
100	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-9	0-9	0-10	0-10	0-10
120	0-7	0-8	0-9	0-10	0-11	1-0	1-0	1-0	1-1	1-1	1-2	1-2	1-2
140	0-10	0-11	1-0	1-2	1-3	1-4	1-4	1-5	1-5	1-6	1-6	1-7	1-7
160	1-1	1-2	1-4	1-6	1-7	1-8	1-9	1-10	1-10	1-11	2-0	2-1	2-1
180	1-4	1-6	1-8	1-10	2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8
200	1-8	1-10	2-1	2-4	2-6	2-7	2-9	2-10	2-11	3-0	3-1	3-2	3-3
210	1-10	2-0	2-3	2-6	2-9	2-10	3-0	3-1	3-2	3-4	3-5	3-6	3-7
220	2-0	2-3	2-6	2-9	3-0	3-2	3-3	3-5	3-6	3-7	3-9	3-10	3-11
230	2-2	2-5	2-9	3-0	3-4	3-5	3-7	3-8	3-10	3-11	4-1	4-2	4-4
240	2-4	2-8	3-0	3-3	3-7	3-9	3-11	4-0	4-2	4-4	4-5	4-7	4-8
250	2-6	2-10	3-3	3-7	3-11	4-1	4-3	4-4	4-6	4-8	4-10	4-11	5-1
260	2-9	3-1	3-6	3-10	4-2	4-5	4-7	4-9	4-11	5-0	5-2	5-4	5-6
270	2-11	3-4	3-9	4-2	4-6	4-9	4-11	5-1	5-3	5-5	5-7	5-9	5-11
280	3-2	3-7	4-0	4-6	4-10	5-1	5-3	5-6	5-8	5-10	6-0	6-2	6-4
290	3-5	3-10	4-4	4-9	5-3	5-5	5-8	5-10	6-1	6-3	6-5	6-8	6-10
300	3-7	4-1	4-7	5-1	5-7	5-10	6-1	6-3	6-6	6-8	6-11	7-1	7-4
310	3-10	4-5	4-11	5-5	6-0	6-3	6-5	6-8	6-11	7-2	7-4	7-7	7-10
320	4-1	4-8	5-3	5-10	6-4	6-7	6-10	7-1	7-4	7-7	7-10	8-1	8-4
330	4-4	5-0	5-7	6-2	6-9	7-0	7-4	7-7	7-10	8-1	8-4	8-7	8-10
340	4-8	5-3	5-11	6-7	7-2	7-6	7-9	8-0	8-4	8-7	8-10	9-1	9-4
350	4-11	5-7	6-3	6-11	7-7	7-11	8-3	8-6	8-10	9-1	9-5	9-8	9-11

Ruling Span (Feet)	250		OXLIP - FINAL		Design Condition				1500 lb. max tension a	4 lbs/f
					Conductor Condition	4/0 AWG AAC - Oxlip Final Sag & Tension				
Temp (°F)	20	30	40	50	60	65	70	75	80	85
Tension (lbs)	624.	548.	488.	441.	403.	387.	373.	359.	347.	336.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	4.72	5.03	5.33	5.61	5.87	5.99	6.11	6.22	6.32	6.43
50	.94	1.01	1.07	1.12	1.17	1.20	1.22	1.24	1.26	1.29
75	1.41	1.51	1.60	1.68	1.76	1.80	1.83	1.86	1.90	1.93
100	1.89	2.01	2.13	2.24	2.35	2.40	2.44	2.49	2.53	2.57
120	2.26	2.42	2.56	2.69	2.82	2.87	2.93	2.98	3.04	3.08
140	2.64	2.82	2.99	3.14	3.29	3.35	3.42	3.48	3.54	3.60
160	3.02	3.22	3.41	3.59	3.76	3.83	3.91	3.98	4.05	4.11
180	3.40	3.62	3.84	4.04	4.23	4.31	4.40	4.48	4.55	4.63
200	3.77	4.03	4.27	4.49	4.70	4.79	4.88	4.97	5.06	5.14
210	3.96	4.23	4.48	4.71	4.93	5.03	5.13	5.22	5.31	5.40
220	4.15	4.43	4.69	4.94	5.16	5.27	5.37	5.47	5.57	5.66
230	4.34	4.63	4.91	5.16	5.40	5.51	5.62	5.72	5.82	5.91
240	4.53	4.83	5.12	5.39	5.63	5.75	5.86	5.97	6.07	6.17
250	4.72	5.03	5.33	5.61	5.87	5.99	6.11	6.22	6.32	6.43
260	4.90	5.24	5.55	5.84	6.10	6.23	6.35	6.47	6.58	6.68
270	5.09	5.44	5.76	6.06	6.34	6.47	6.59	6.71	6.83	6.94
280	5.28	5.64	5.97	6.29	6.57	6.71	6.84	6.96	7.08	7.20
290	5.47	5.84	6.19	6.51	6.81	6.95	7.08	7.21	7.34	7.46
300	5.66	6.04	6.40	6.74	7.04	7.19	7.33	7.46	7.59	7.71
310	5.85	6.24	6.61	6.96	7.28	7.43	7.57	7.71	7.84	7.97
320	6.04	6.44	6.83	7.18	7.51	7.67	7.82	7.96	8.10	8.23
330	6.23	6.64	7.04	7.41	7.75	7.91	8.06	8.21	8.35	8.49
340	6.41	6.85	7.25	7.63	7.98	8.15	8.31	8.46	8.60	8.74
350	6.60	7.05	7.47	7.86	8.22	8.39	8.55	8.71	8.86	9.00

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	145		ARBUTUS - FINAL		
Conductor Condition	795 kcmil AAC - Arbutus Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3377.	2806.	2295.	1870.	1542.	1413.	1303.	1209.	1130.	1061.	1002.	950.	905.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-7	0-9	0-11	1-1	1-4	1-5	1-7	1-8	1-9	1-11	2-0	2-1	2-3
50	0-1	0-1	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-4
75	0-2	0-3	0-3	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7	0-7
100	0-4	0-4	0-5	0-6	0-8	0-8	0-9	0-10	0-10	0-11	1-0	1-0	1-1
120	0-5	0-6	0-8	0-9	0-11	1-0	1-1	1-2	1-3	1-4	1-5	1-5	1-6
140	0-7	0-8	0-10	1-0	1-3	1-4	1-5	1-7	1-8	1-9	1-10	2-0	2-1
160	0-9	0-11	1-1	1-4	1-7	1-9	1-11	2-0	2-2	2-4	2-5	2-7	2-8
180	0-11	1-1	1-4	1-8	2-0	2-2	2-4	2-7	2-9	2-11	3-1	3-3	3-5
200	1-2	1-4	1-8	2-0	2-6	2-8	2-11	3-2	3-4	3-7	3-9	4-0	4-2
210	1-3	1-6	1-10	2-3	2-9	2-11	3-2	3-5	3-8	3-11	4-2	4-4	4-7
220	1-5	1-8	2-0	2-5	3-0	3-3	3-6	3-9	4-0	4-4	4-7	4-10	5-0
230	1-6	1-10	2-2	2-8	3-3	3-6	3-10	4-1	4-5	4-8	5-0	5-3	5-6
240	1-8	1-11	2-5	2-11	3-6	3-10	4-2	4-6	4-10	5-1	5-5	5-8	6-0
250	1-9	2-1	2-7	3-2	3-10	4-2	4-6	4-10	5-2	5-6	5-10	6-2	6-6
260	1-11	2-3	2-9	3-5	4-2	4-6	4-11	5-3	5-8	6-0	6-4	6-8	7-0
270	2-1	2-6	3-0	3-8	4-5	4-10	5-3	5-8	6-1	6-5	6-10	7-2	7-7
280	2-2	2-8	3-3	3-11	4-9	5-3	5-8	6-1	6-6	6-11	7-4	7-9	8-2
290	2-4	2-10	3-6	4-3	5-2	5-7	6-1	6-6	7-0	7-5	7-11	8-4	8-9
300	2-6	3-0	3-8	4-6	5-6	6-0	6-6	7-0	7-6	8-0	8-5	8-11	9-4
310	2-8	3-3	3-11	4-10	5-10	6-5	6-11	7-6	8-0	8-6	9-0	9-6	10-0
320	2-10	3-5	4-2	5-2	6-3	6-10	7-5	7-11	8-6	9-1	9-7	10-1	10-7
330	3-1	3-8	4-6	5-6	6-8	7-3	7-10	8-5	9-1	9-8	10-2	10-9	11-3
340	3-3	3-11	4-9	5-10	7-0	7-8	8-4	9-0	9-7	10-3	10-10	11-5	12-0
350	3-5	4-1	5-0	6-2	7-5	8-2	8-10	9-6	10-2	10-10	11-6	12-1	12-8

Ruling Span (Feet)	145		ARBUTUS - FINAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Final Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3377.	2806.	2295.	1870.	1542.	1413.	1303.	1209.	1130.	1061.	1002.	950.	905.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.28	2.50	2.76	3.06	3.37	3.52	3.67	3.81	3.94	4.07	4.19	4.30	4.40
50	.79	.86	.95	1.06	1.16	1.22	1.27	1.31	1.36	1.40	1.44	1.48	1.52
75	1.18	1.29	1.43	1.58	1.74	1.82	1.90	1.97	2.04	2.10	2.16	2.22	2.28
100	1.57	1.72	1.91	2.11	2.33	2.43	2.53	2.63	2.72	2.80	2.89	2.96	3.04
120	1.89	2.07	2.29	2.54	2.79	2.92	3.04	3.15	3.26	3.37	3.46	3.56	3.64
140	2.20	2.41	2.67	2.96	3.26	3.40	3.54	3.68	3.81	3.93	4.04	4.15	4.25
160	2.52	2.76	3.05	3.38	3.72	3.89	4.05	4.20	4.35	4.49	4.62	4.74	4.86
180	2.83	3.10	3.43	3.80	4.19	4.37	4.56	4.73	4.89	5.05	5.20	5.33	5.47
200	3.14	3.45	3.81	4.23	4.65	4.86	5.06	5.25	5.44	5.61	5.77	5.93	6.07
210	3.30	3.62	4.00	4.44	4.89	5.10	5.32	5.52	5.71	5.89	6.06	6.22	6.38
220	3.46	3.79	4.20	4.65	5.12	5.35	5.57	5.78	5.98	6.17	6.35	6.52	6.68
230	3.62	3.97	4.39	4.86	5.35	5.59	5.82	6.04	6.25	6.45	6.64	6.82	6.99
240	3.77	4.14	4.58	5.07	5.58	5.83	6.08	6.31	6.52	6.73	6.93	7.11	7.29
250	3.93	4.31	4.77	5.28	5.82	6.08	6.33	6.57	6.80	7.01	7.22	7.41	7.59
260	4.09	4.48	4.96	5.49	6.05	6.32	6.58	6.83	7.07	7.29	7.51	7.71	7.90
270	4.24	4.66	5.15	5.70	6.28	6.56	6.83	7.09	7.34	7.57	7.80	8.00	8.20
280	4.40	4.83	5.34	5.92	6.51	6.81	7.09	7.36	7.61	7.86	8.08	8.30	8.51
290	4.56	5.00	5.53	6.13	6.75	7.05	7.34	7.62	7.89	8.14	8.37	8.60	8.81
300	4.72	5.17	5.72	6.34	6.98	7.29	7.59	7.88	8.16	8.42	8.66	8.89	9.11
310	4.87	5.35	5.91	6.55	7.21	7.54	7.85	8.15	8.43	8.70	8.95	9.19	9.42
320	5.03	5.52	6.10	6.76	7.45	7.78	8.10	8.41	8.70	8.98	9.24	9.49	9.72
330	5.19	5.69	6.29	6.97	7.68	8.02	8.35	8.67	8.97	9.26	9.53	9.79	10.03
340	5.35	5.86	6.48	7.18	7.91	8.27	8.61	8.94	9.25	9.54	9.82	10.08	10.33
350	5.50	6.04	6.67	7.40	8.14	8.51	8.86	9.20	9.52	9.82	10.11	10.38	10.64

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	160		ARBUTUS - FINAL		
Conductor Condition	795 kcmil AAC - Arbutus Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3323.	2774.	2291.	1894.	1589.	1467.	1362.	1272.	1195.	1128.	1069.	1017.	971.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	0-9	0-11	1-1	1-4	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6
50	0-1	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3
75	0-2	0-3	0-3	0-4	0-4	0-5	0-5	0-5	0-6	0-6	0-6	0-7	0-7
100	0-4	0-5	0-5	0-6	0-8	0-8	0-9	0-9	0-10	0-10	0-11	1-0	1-0
120	0-5	0-6	0-8	0-9	0-11	0-11	1-0	1-1	1-2	1-3	1-4	1-4	1-5
140	0-7	0-8	0-10	1-0	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-10	1-11
160	0-9	0-11	1-1	1-4	1-7	1-8	1-10	1-11	2-0	2-2	2-3	2-5	2-6
180	0-11	1-2	1-4	1-8	1-11	2-1	2-3	2-5	2-7	2-9	2-10	3-0	3-2
200	1-2	1-5	1-8	2-0	2-5	2-7	2-9	3-0	3-2	3-4	3-6	3-9	3-11
210	1-3	1-6	1-10	2-3	2-8	2-10	3-1	3-3	3-6	3-8	3-11	4-1	4-3
220	1-5	1-8	2-0	2-5	2-11	3-1	3-4	3-7	3-10	4-1	4-3	4-6	4-8
230	1-6	1-10	2-2	2-8	3-2	3-5	3-8	3-11	4-2	4-5	4-8	4-11	5-2
240	1-8	2-0	2-5	2-11	3-5	3-8	4-0	4-3	4-6	4-10	5-1	5-4	5-7
250	1-10	2-2	2-7	3-1	3-9	4-0	4-4	4-8	4-11	5-3	5-6	5-9	6-1
260	1-11	2-4	2-10	3-4	4-0	4-4	4-8	5-0	5-4	5-8	5-11	6-3	6-6
270	2-1	2-6	3-0	3-8	4-4	4-8	5-0	5-5	5-9	6-1	6-5	6-9	7-1
280	2-3	2-8	3-3	3-11	4-8	5-0	5-5	5-10	6-2	6-6	6-11	7-3	7-7
290	2-5	2-10	3-6	4-2	5-0	5-5	5-10	6-3	6-7	7-0	7-5	7-9	8-2
300	2-7	3-1	3-8	4-6	5-4	5-9	6-3	6-8	7-1	7-6	7-11	8-4	8-8
310	2-9	3-3	3-11	4-9	5-8	6-2	6-8	7-1	7-7	8-0	8-5	8-10	9-3
320	2-11	3-6	4-3	5-1	6-1	6-7	7-1	7-7	8-1	8-6	9-0	9-5	9-11
330	3-1	3-8	4-6	5-5	6-5	7-0	7-6	8-0	8-7	9-1	9-7	10-1	10-6
340	3-3	3-11	4-9	5-9	6-10	7-5	8-0	8-6	9-1	9-7	10-2	10-8	11-2
350	3-6	4-2	5-0	6-1	7-3	7-10	8-5	9-0	9-7	10-2	10-9	11-4	11-10

Ruling Span (Feet)	160		ARBUTUS - FINAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Final Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3323.	2774.	2291.	1894.	1589.	1467.	1362.	1272.	1195.	1128.	1069.	1017.	971.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.54	2.78	3.05	3.36	3.67	3.82	3.96	4.10	4.23	4.35	4.47	4.58	4.69
50	.79	.87	.95	1.05	1.15	1.19	1.24	1.28	1.32	1.36	1.40	1.43	1.47
75	1.19	1.30	1.43	1.57	1.72	1.79	1.86	1.92	1.98	2.04	2.10	2.15	2.20
100	1.58	1.73	1.91	2.10	2.29	2.39	2.48	2.56	2.64	2.72	2.79	2.86	2.93
120	1.90	2.08	2.29	2.52	2.75	2.86	2.97	3.07	3.17	3.26	3.35	3.44	3.52
140	2.22	2.43	2.67	2.94	3.21	3.34	3.47	3.59	3.70	3.81	3.91	4.01	4.10
160	2.54	2.78	3.05	3.36	3.67	3.82	3.96	4.10	4.23	4.35	4.47	4.58	4.69
180	2.85	3.12	3.44	3.78	4.13	4.29	4.46	4.61	4.76	4.90	5.03	5.16	5.28
200	3.17	3.47	3.82	4.20	4.58	4.77	4.95	5.12	5.29	5.44	5.59	5.73	5.86
210	3.33	3.64	4.01	4.41	4.81	5.01	5.20	5.38	5.55	5.71	5.87	6.02	6.16
220	3.49	3.82	4.20	4.62	5.04	5.25	5.45	5.64	5.82	5.99	6.15	6.30	6.45
230	3.65	3.99	4.39	4.83	5.27	5.49	5.69	5.89	6.08	6.26	6.43	6.59	6.74
240	3.80	4.16	4.58	5.04	5.50	5.73	5.94	6.15	6.34	6.53	6.71	6.88	7.04
250	3.96	4.34	4.77	5.25	5.73	5.96	6.19	6.40	6.61	6.80	6.99	7.16	7.33
260	4.12	4.51	4.96	5.46	5.96	6.20	6.44	6.66	6.87	7.08	7.27	7.45	7.62
270	4.28	4.68	5.15	5.67	6.19	6.44	6.68	6.92	7.14	7.35	7.55	7.74	7.92
280	4.44	4.86	5.34	5.88	6.42	6.68	6.93	7.17	7.40	7.62	7.83	8.02	8.21
290	4.60	5.03	5.54	6.09	6.65	6.92	7.18	7.43	7.67	7.89	8.11	8.31	8.50
300	4.75	5.20	5.73	6.30	6.88	7.16	7.43	7.69	7.93	8.16	8.39	8.60	8.80
310	4.91	5.38	5.92	6.51	7.11	7.40	7.67	7.94	8.20	8.44	8.67	8.88	9.09
320	5.07	5.55	6.11	6.72	7.34	7.63	7.92	8.20	8.46	8.71	8.95	9.17	9.38
330	5.23	5.72	6.30	6.93	7.56	7.87	8.17	8.45	8.72	8.98	9.23	9.46	9.68
340	5.39	5.90	6.49	7.14	7.79	8.11	8.42	8.71	8.99	9.25	9.51	9.74	9.97
350	5.55	6.07	6.68	7.35	8.02	8.35	8.67	8.97	9.25	9.53	9.79	10.03	10.27

Ruling Span (Feet)	175		ARBUTUS - FINAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Final Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3276.	2750.	2294.	1923.	1636.	1520.	1420.	1333.	1257.	1191.	1133.	1081.	1035.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	2.79	3.05	3.34	3.65	3.95	4.10	4.24	4.38	4.51	4.63	4.75	4.86	4.97
50	.80	.87	.95	1.04	1.13	1.17	1.21	1.25	1.29	1.32	1.36	1.39	1.42
75	1.20	1.31	1.43	1.56	1.69	1.76	1.82	1.88	1.93	1.99	2.04	2.08	2.13
100	1.60	1.74	1.91	2.08	2.26	2.34	2.42	2.50	2.58	2.65	2.71	2.78	2.84
120	1.92	2.09	2.29	2.50	2.71	2.81	2.91	3.00	3.09	3.18	3.26	3.33	3.41
140	2.23	2.44	2.67	2.92	3.16	3.28	3.39	3.50	3.61	3.71	3.80	3.89	3.98
160	2.55	2.79	3.05	3.33	3.61	3.75	3.88	4.00	4.12	4.24	4.34	4.45	4.54
180	2.87	3.14	3.43	3.75	4.07	4.22	4.36	4.50	4.64	4.76	4.89	5.00	5.11
200	3.19	3.48	3.81	4.17	4.52	4.69	4.85	5.00	5.15	5.29	5.43	5.56	5.68
210	3.35	3.66	4.01	4.38	4.74	4.92	5.09	5.25	5.41	5.56	5.70	5.84	5.96
220	3.51	3.83	4.20	4.58	4.97	5.16	5.33	5.51	5.67	5.82	5.97	6.11	6.25
230	3.67	4.01	4.39	4.79	5.20	5.39	5.58	5.76	5.93	6.09	6.24	6.39	6.53
240	3.83	4.18	4.58	5.00	5.42	5.62	5.82	6.01	6.18	6.35	6.52	6.67	6.82
250	3.99	4.36	4.77	5.21	5.65	5.86	6.06	6.26	6.44	6.62	6.79	6.95	7.10
260	4.15	4.53	4.96	5.42	5.87	6.09	6.30	6.51	6.70	6.88	7.06	7.23	7.38
270	4.31	4.70	5.15	5.63	6.10	6.33	6.55	6.76	6.96	7.15	7.33	7.50	7.67
280	4.47	4.88	5.34	5.83	6.33	6.56	6.79	7.01	7.22	7.41	7.60	7.78	7.95
290	4.63	5.05	5.53	6.04	6.55	6.80	7.03	7.26	7.47	7.68	7.87	8.06	8.24
300	4.79	5.23	5.72	6.25	6.78	7.03	7.27	7.51	7.73	7.94	8.15	8.34	8.52
310	4.95	5.40	5.91	6.46	7.00	7.27	7.52	7.76	7.99	8.21	8.42	8.62	8.81
320	5.11	5.57	6.10	6.67	7.23	7.50	7.76	8.01	8.25	8.47	8.69	8.89	9.09
330	5.27	5.75	6.30	6.88	7.46	7.73	8.00	8.26	8.50	8.74	8.96	9.17	9.37
340	5.43	5.92	6.49	7.08	7.68	7.97	8.24	8.51	8.76	9.00	9.23	9.45	9.66
350	5.59	6.10	6.68	7.29	7.91	8.20	8.49	8.76	9.02	9.27	9.50	9.73	9.94

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	190		ARBUTUS - FINAL		
Conductor Condition	795 kcmil AAC - Arbutus Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3236.	2733.	2302.	1953.	1682.	1572.	1476.	1392.	1318.	1253.	1195.	1143.	1097.
Span	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)	(Ft-In)
Ruling Span Sag	1-1	1-3	1-6	1-9	2-1	2-2	2-4	2-6	2-7	2-9	2-10	3-0	3-1
50	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3	0-3
75	0-2	0-3	0-3	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6	0-6
100	0-4	0-5	0-5	0-6	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10	0-11
120	0-5	0-6	0-8	0-9	0-10	0-11	0-11	1-0	1-1	1-1	1-2	1-3	1-3
140	0-7	0-9	0-10	1-0	1-2	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9
160	0-9	0-11	1-1	1-3	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-2	2-3
180	1-0	1-2	1-4	1-7	1-10	2-0	2-1	2-3	2-4	2-5	2-7	2-8	2-10
200	1-2	1-5	1-8	1-11	2-3	2-5	2-7	2-9	2-10	3-0	3-2	3-4	3-5
210	1-4	1-7	1-10	2-2	2-6	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10
220	1-5	1-8	2-0	2-4	2-9	2-11	3-1	3-3	3-6	3-8	3-10	4-0	4-2
230	1-7	1-10	2-2	2-7	3-0	3-2	3-5	3-7	3-9	4-0	4-2	4-4	4-7
240	1-8	2-0	2-5	2-10	3-3	3-6	3-8	3-11	4-1	4-4	4-7	4-9	4-11
250	1-10	2-2	2-7	3-0	3-6	3-9	4-0	4-3	4-6	4-8	4-11	5-2	5-4
260	2-0	2-4	2-9	3-3	3-9	4-1	4-4	4-7	4-10	5-1	5-4	5-7	5-10
270	2-2	2-6	3-0	3-6	4-1	4-4	4-8	4-11	5-2	5-6	5-9	6-0	6-3
280	2-4	2-9	3-3	3-9	4-5	4-8	5-0	5-4	5-7	5-11	6-2	6-5	6-9
290	2-6	2-11	3-5	4-1	4-8	5-0	5-4	5-8	6-0	6-4	6-7	6-11	7-2
300	2-8	3-1	3-8	4-4	5-0	5-5	5-9	6-1	6-5	6-9	7-1	7-5	7-8
310	2-10	3-4	3-11	4-8	5-4	5-9	6-1	6-6	6-10	7-2	7-7	7-11	8-3
320	3-0	3-6	4-2	4-11	5-9	6-1	6-6	6-11	7-4	7-8	8-1	8-5	8-9
330	3-2	3-9	4-5	5-3	6-1	6-6	6-11	7-4	7-9	8-2	8-7	8-11	9-4
340	3-5	4-0	4-9	5-7	6-5	6-11	7-4	7-10	8-3	8-8	9-1	9-6	9-11
350	3-7	4-3	5-0	5-11	6-10	7-4	7-9	8-3	8-9	9-2	9-7	10-1	10-6

Ruling Span (Feet)	190		ARBUTUS - FINAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Final Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3236.	2733.	2302.	1953.	1682.	1572.	1476.	1392.	1318.	1253.	1195.	1143.	1097.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.05	3.32	3.62	3.93	4.23	4.38	4.52	4.65	4.78	4.90	5.02	5.13	5.24
50	.80	.87	.95	1.03	1.11	1.15	1.19	1.22	1.26	1.29	1.32	1.35	1.38
75	1.20	1.31	1.43	1.55	1.67	1.73	1.78	1.84	1.89	1.94	1.98	2.03	2.07
100	1.61	1.75	1.90	2.07	2.23	2.30	2.38	2.45	2.52	2.58	2.64	2.70	2.76
120	1.93	2.10	2.28	2.48	2.67	2.76	2.85	2.94	3.02	3.10	3.17	3.24	3.31
140	2.25	2.45	2.67	2.89	3.12	3.23	3.33	3.43	3.52	3.61	3.70	3.78	3.86
160	2.57	2.80	3.05	3.31	3.56	3.69	3.80	3.92	4.03	4.13	4.23	4.32	4.41
180	2.89	3.15	3.43	3.72	4.01	4.15	4.28	4.41	4.53	4.65	4.76	4.86	4.97
200	3.21	3.50	3.81	4.13	4.45	4.61	4.76	4.90	5.03	5.16	5.29	5.40	5.52
210	3.37	3.67	4.00	4.34	4.68	4.84	4.99	5.14	5.29	5.42	5.55	5.67	5.79
220	3.53	3.84	4.19	4.55	4.90	5.07	5.23	5.39	5.54	5.68	5.82	5.95	6.07
230	3.69	4.02	4.38	4.75	5.12	5.30	5.47	5.63	5.79	5.94	6.08	6.22	6.35
240	3.85	4.19	4.57	4.96	5.35	5.53	5.71	5.88	6.04	6.20	6.34	6.49	6.62
250	4.02	4.37	4.76	5.17	5.57	5.76	5.95	6.12	6.29	6.45	6.61	6.76	6.90
260	4.18	4.54	4.95	5.37	5.79	5.99	6.18	6.37	6.54	6.71	6.87	7.03	7.17
270	4.34	4.72	5.14	5.58	6.01	6.22	6.42	6.61	6.80	6.97	7.14	7.30	7.45
280	4.50	4.89	5.33	5.79	6.24	6.45	6.66	6.86	7.05	7.23	7.40	7.57	7.73
290	4.66	5.07	5.52	5.99	6.46	6.68	6.90	7.10	7.30	7.49	7.67	7.84	8.00
300	4.82	5.24	5.71	6.20	6.68	6.91	7.14	7.35	7.55	7.75	7.93	8.11	8.28
310	4.98	5.42	5.90	6.41	6.91	7.14	7.37	7.59	7.80	8.00	8.20	8.38	8.55
320	5.14	5.59	6.09	6.62	7.13	7.37	7.61	7.84	8.06	8.26	8.46	8.65	8.83
330	5.30	5.77	6.28	6.82	7.35	7.60	7.85	8.08	8.31	8.52	8.73	8.92	9.11
340	5.46	5.94	6.47	7.03	7.57	7.84	8.09	8.33	8.56	8.78	8.99	9.19	9.38
350	5.62	6.12	6.66	7.24	7.80	8.07	8.32	8.57	8.81	9.04	9.25	9.46	9.66

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	205		ARBUTUS - FINAL		
Conductor Condition	795 kcmil AAC - Arbutus Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3202.	2722.	2315.	1986.	1729.	1623.	1530.	1448.	1376.	1312.	1254.	1203.	1157.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	1-3	1-6	1-9	2-0	2-4	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-5
50	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3	0-3
75	0-2	0-3	0-3	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-6	0-6	0-6
100	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-9	0-9	0-9	0-10	0-10
120	0-6	0-6	0-7	0-9	0-10	0-10	0-11	1-0	1-0	1-1	1-1	1-2	1-2
140	0-7	0-9	0-10	1-0	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-7
160	0-9	0-11	1-1	1-3	1-5	1-6	1-7	1-8	1-9	1-10	1-11	2-0	2-1
180	1-0	1-2	1-4	1-7	1-9	1-11	2-0	2-2	2-3	2-4	2-5	2-7	2-8
200	1-2	1-5	1-8	1-11	2-2	2-4	2-6	2-7	2-9	2-11	3-0	3-2	3-3
210	1-4	1-7	1-10	2-1	2-5	2-7	2-9	2-11	3-0	3-2	3-4	3-6	3-7
220	1-5	1-8	2-0	2-4	2-8	2-10	3-0	3-2	3-4	3-6	3-8	3-10	3-11
230	1-7	1-10	2-2	2-6	2-11	3-1	3-3	3-5	3-8	3-10	4-0	4-2	4-4
240	1-9	2-0	2-4	2-9	3-2	3-4	3-7	3-9	3-11	4-2	4-4	4-6	4-8
250	1-10	2-2	2-7	3-0	3-5	3-8	3-10	4-1	4-3	4-6	4-8	4-11	5-1
260	2-0	2-4	2-9	3-3	3-8	3-11	4-2	4-5	4-8	4-10	5-1	5-3	5-6
270	2-2	2-6	3-0	3-6	4-0	4-3	4-6	4-9	5-0	5-3	5-6	5-8	5-11
280	2-4	2-9	3-2	3-9	4-3	4-7	4-10	5-1	5-4	5-7	5-11	6-2	6-4
290	2-6	2-11	3-5	4-0	4-7	4-11	5-2	5-6	5-9	6-0	6-4	6-7	6-10
300	2-8	3-2	3-8	4-3	4-11	5-3	5-6	5-10	6-2	6-5	6-9	7-0	7-4
310	2-10	3-4	3-11	4-7	5-3	5-7	5-11	6-3	6-7	6-11	7-2	7-6	7-10
320	3-0	3-7	4-2	4-10	5-7	5-11	6-3	6-8	7-0	7-4	7-8	8-0	8-4
330	3-3	3-9	4-5	5-2	5-11	6-4	6-8	7-1	7-5	7-10	8-2	8-6	8-10
340	3-5	4-0	4-8	5-6	6-3	6-8	7-1	7-6	7-11	8-3	8-8	9-0	9-5
350	3-7	4-3	5-0	5-10	6-8	7-1	7-6	7-11	8-4	8-9	9-2	9-7	9-11

Ruling Span (Feet)	205		ARBUTUS - FINAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Final Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3202.	2722.	2315.	1986.	1729.	1623.	1530.	1448.	1376.	1312.	1254.	1203.	1157.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.31	3.59	3.89	4.20	4.50	4.65	4.79	4.92	5.05	5.17	5.29	5.40	5.51
50	.81	.88	.95	1.02	1.10	1.13	1.17	1.20	1.23	1.26	1.29	1.32	1.34
75	1.21	1.31	1.42	1.54	1.65	1.70	1.75	1.80	1.85	1.89	1.93	1.98	2.01
100	1.61	1.75	1.90	2.05	2.20	2.27	2.34	2.40	2.46	2.52	2.58	2.63	2.69
120	1.94	2.10	2.28	2.46	2.64	2.72	2.80	2.88	2.96	3.03	3.10	3.16	3.22
140	2.26	2.45	2.66	2.87	3.08	3.17	3.27	3.36	3.45	3.53	3.61	3.69	3.76
160	2.58	2.80	3.04	3.28	3.52	3.63	3.74	3.84	3.94	4.04	4.13	4.21	4.30
180	2.91	3.15	3.42	3.69	3.95	4.08	4.20	4.32	4.43	4.54	4.64	4.74	4.84
200	3.23	3.50	3.80	4.10	4.39	4.54	4.67	4.80	4.93	5.05	5.16	5.27	5.37
210	3.39	3.68	3.99	4.31	4.61	4.76	4.90	5.04	5.17	5.30	5.42	5.53	5.64
220	3.55	3.85	4.18	4.51	4.83	4.99	5.14	5.28	5.42	5.55	5.68	5.80	5.91
230	3.71	4.03	4.37	4.72	5.05	5.22	5.37	5.52	5.66	5.80	5.93	6.06	6.18
240	3.87	4.20	4.56	4.92	5.27	5.44	5.61	5.76	5.91	6.05	6.19	6.32	6.45
250	4.04	4.38	4.75	5.13	5.49	5.67	5.84	6.00	6.16	6.31	6.45	6.59	6.72
260	4.20	4.55	4.94	5.33	5.71	5.90	6.07	6.24	6.40	6.56	6.71	6.85	6.99
270	4.36	4.73	5.13	5.54	5.93	6.12	6.31	6.48	6.65	6.81	6.97	7.11	7.25
280	4.52	4.90	5.32	5.74	6.15	6.35	6.54	6.72	6.90	7.06	7.22	7.38	7.52
290	4.68	5.08	5.51	5.95	6.37	6.58	6.77	6.96	7.14	7.32	7.48	7.64	7.79
300	4.84	5.25	5.70	6.15	6.59	6.80	7.01	7.20	7.39	7.57	7.74	7.90	8.06
310	5.00	5.43	5.89	6.36	6.81	7.03	7.24	7.44	7.64	7.82	8.00	8.17	8.33
320	5.17	5.60	6.08	6.56	7.03	7.26	7.47	7.68	7.88	8.07	8.26	8.43	8.60
330	5.33	5.78	6.27	6.77	7.25	7.48	7.71	7.92	8.13	8.33	8.51	8.70	8.87
340	5.49	5.95	6.46	6.97	7.47	7.71	7.94	8.16	8.38	8.58	8.77	8.96	9.14
350	5.65	6.13	6.65	7.18	7.69	7.94	8.18	8.40	8.62	8.83	9.03	9.22	9.41

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	220		ARBUTUS - FINAL		
Conductor Condition	795 kcmil AAC - Arbutus Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3174.	2716.	2331.	2019.	1774.	1673.	1583.	1503.	1432.	1369.	1312.	1261.	1214.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	1-6	1-8	2-0	2-3	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9
50	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3	0-3
75	0-2	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-6
100	0-4	0-5	0-5	0-6	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-9	0-10
120	0-6	0-6	0-7	0-8	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1	1-2
140	0-7	0-9	0-10	0-11	1-1	1-2	1-2	1-3	1-4	1-5	1-5	1-6	1-7
160	0-10	0-11	1-1	1-3	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11	2-0
180	1-0	1-2	1-4	1-6	1-9	1-10	1-11	2-1	2-2	2-3	2-4	2-5	2-6
200	1-3	1-5	1-8	1-11	2-2	2-3	2-5	2-6	2-8	2-9	2-11	3-0	3-1
210	1-4	1-7	1-10	2-1	2-4	2-6	2-8	2-9	2-11	3-1	3-2	3-4	3-5
220	1-6	1-8	2-0	2-3	2-7	2-9	2-11	3-1	3-2	3-4	3-6	3-7	3-9
230	1-7	1-10	2-2	2-6	2-10	3-0	3-2	3-4	3-6	3-8	3-10	3-11	4-1
240	1-9	2-0	2-4	2-8	3-1	3-3	3-5	3-7	3-10	4-0	4-2	4-4	4-6
250	1-11	2-2	2-7	2-11	3-4	3-6	3-9	3-11	4-1	4-4	4-6	4-8	4-10
260	2-0	2-4	2-9	3-2	3-7	3-10	4-0	4-3	4-5	4-8	4-10	5-1	5-3
270	2-2	2-7	3-0	3-5	3-11	4-1	4-4	4-7	4-10	5-0	5-3	5-5	5-8
280	2-4	2-9	3-2	3-8	4-2	4-5	4-8	4-11	5-2	5-5	5-7	5-10	6-1
290	2-6	2-11	3-5	3-11	4-6	4-9	5-0	5-3	5-6	5-9	6-0	6-3	6-6
300	2-8	3-2	3-8	4-2	4-9	5-1	5-4	5-8	5-11	6-2	6-5	6-8	7-0
310	2-10	3-4	3-11	4-6	5-1	5-5	5-8	6-0	6-4	6-7	6-11	7-2	7-5
320	3-1	3-7	4-2	4-9	5-5	5-9	6-1	6-5	6-9	7-0	7-4	7-8	7-11
330	3-3	3-9	4-5	5-1	5-9	6-1	6-6	6-10	7-2	7-6	7-9	8-1	8-5
340	3-5	4-0	4-8	5-5	6-1	6-6	6-10	7-3	7-7	7-11	8-3	8-7	8-11
350	3-8	4-3	4-11	5-8	6-6	6-11	7-3	7-8	8-0	8-5	8-9	9-1	9-6

Ruling Span (Feet)	220		ARBUTUS - FINAL			Design Condition		4750 lb. max tension at 0°F					
						Conductor Condition		795 kcmil AAC - Arbutus Final Sag & Tension					
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3174.	2716.	2331.	2019.	1774.	1673.	1583.	1503.	1432.	1369.	1312.	1261.	1214.
Span	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.	3rd Wave Sec.
Ruling Span Sag	3.57	3.86	4.16	4.47	4.77	4.91	5.05	5.18	5.31	5.43	5.55	5.66	5.77
50	.81	.88	.95	1.02	1.08	1.12	1.15	1.18	1.21	1.23	1.26	1.29	1.31
75	1.22	1.31	1.42	1.52	1.63	1.68	1.72	1.77	1.81	1.85	1.89	1.93	1.97
100	1.62	1.75	1.89	2.03	2.17	2.23	2.30	2.36	2.41	2.47	2.52	2.57	2.62
120	1.95	2.10	2.27	2.44	2.60	2.68	2.76	2.83	2.90	2.96	3.03	3.09	3.15
140	2.27	2.45	2.65	2.85	3.04	3.13	3.21	3.30	3.38	3.46	3.53	3.60	3.67
160	2.59	2.80	3.03	3.25	3.47	3.57	3.67	3.77	3.86	3.95	4.04	4.12	4.19
180	2.92	3.16	3.41	3.66	3.90	4.02	4.13	4.24	4.35	4.44	4.54	4.63	4.72
200	3.24	3.51	3.78	4.07	4.34	4.47	4.59	4.71	4.83	4.94	5.04	5.15	5.24
210	3.41	3.68	3.97	4.27	4.55	4.69	4.82	4.95	5.07	5.19	5.30	5.40	5.51
220	3.57	3.86	4.16	4.47	4.77	4.91	5.05	5.18	5.31	5.43	5.55	5.66	5.77
230	3.73	4.03	4.35	4.68	4.99	5.14	5.28	5.42	5.55	5.68	5.80	5.92	6.03
240	3.89	4.21	4.54	4.88	5.21	5.36	5.51	5.66	5.79	5.93	6.05	6.18	6.29
250	4.05	4.38	4.73	5.08	5.42	5.58	5.74	5.89	6.04	6.17	6.31	6.43	6.56
260	4.22	4.56	4.92	5.29	5.64	5.81	5.97	6.13	6.28	6.42	6.56	6.69	6.82
270	4.38	4.73	5.11	5.49	5.86	6.03	6.20	6.36	6.52	6.67	6.81	6.95	7.08
280	4.54	4.91	5.30	5.69	6.07	6.25	6.43	6.60	6.76	6.91	7.06	7.21	7.34
290	4.70	5.08	5.49	5.90	6.29	6.48	6.66	6.83	7.00	7.16	7.32	7.46	7.60
300	4.86	5.26	5.68	6.10	6.51	6.70	6.89	7.07	7.24	7.41	7.57	7.72	7.87
310	5.03	5.43	5.87	6.30	6.72	6.93	7.12	7.31	7.48	7.66	7.82	7.98	8.13
320	5.19	5.61	6.06	6.51	6.94	7.15	7.35	7.54	7.73	7.90	8.07	8.24	8.39
330	5.35	5.78	6.24	6.71	7.16	7.37	7.58	7.78	7.97	8.15	8.33	8.49	8.65
340	5.51	5.96	6.43	6.91	7.37	7.60	7.81	8.01	8.21	8.40	8.58	8.75	8.92
350	5.68	6.14	6.62	7.12	7.59	7.82	8.04	8.25	8.45	8.64	8.83	9.01	9.18

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	235		ARBUTUS - FINAL		
Conductor Condition	795 kcmil AAC - Arbutus Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3151.	2715.	2349.	2054.	1819.	1722.	1634.	1557.	1487.	1424.	1368.	1317.	1270.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	1-8	1-11	2-3	2-7	2-10	3-0	3-2	3-4	3-6	3-8	3-10	3-11	4-1
50	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-3
75	0-2	0-3	0-3	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5	0-5
100	0-4	0-5	0-5	0-6	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9	0-9
120	0-6	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11	1-0	1-0	1-1	1-1
140	0-7	0-9	0-10	0-11	1-1	1-1	1-2	1-3	1-3	1-4	1-5	1-5	1-6
160	0-10	0-11	1-1	1-2	1-4	1-5	1-6	1-7	1-8	1-9	1-9	1-10	1-11
180	1-0	1-2	1-4	1-6	1-8	1-10	1-11	2-0	2-1	2-2	2-3	2-4	2-5
200	1-3	1-5	1-8	1-10	2-1	2-3	2-4	2-5	2-7	2-8	2-9	2-11	3-0
210	1-4	1-7	1-10	2-1	2-4	2-5	2-7	2-8	2-10	2-11	3-1	3-2	3-3
220	1-6	1-8	2-0	2-3	2-6	2-8	2-10	2-11	3-1	3-3	3-4	3-6	3-7
230	1-7	1-10	2-2	2-5	2-9	2-11	3-1	3-3	3-4	3-6	3-8	3-9	3-11
240	1-9	2-0	2-4	2-8	3-0	3-2	3-4	3-6	3-8	3-10	4-0	4-1	4-3
250	1-11	2-2	2-6	2-11	3-3	3-5	3-7	3-9	4-0	4-2	4-4	4-6	4-8
260	2-1	2-4	2-9	3-1	3-6	3-8	3-11	4-1	4-3	4-6	4-8	4-10	5-0
270	2-2	2-7	2-11	3-4	3-9	4-0	4-2	4-5	4-7	4-10	5-0	5-3	5-5
280	2-4	2-9	3-2	3-7	4-1	4-4	4-6	4-9	5-0	5-2	5-5	5-7	5-10
290	2-6	2-11	3-5	3-10	4-4	4-7	4-10	5-1	5-4	5-7	5-9	6-0	6-3
300	2-8	3-2	3-7	4-2	4-8	4-11	5-2	5-5	5-8	5-11	6-2	6-5	6-8
310	2-11	3-4	3-10	4-5	5-0	5-3	5-6	5-10	6-1	6-4	6-7	6-10	7-1
320	3-1	3-7	4-1	4-8	5-4	5-7	5-11	6-2	6-6	6-9	7-0	7-4	7-7
330	3-3	3-9	4-4	5-0	5-8	5-11	6-3	6-7	6-11	7-2	7-6	7-9	8-1
340	3-6	4-0	4-8	5-4	6-0	6-4	6-8	7-0	7-4	7-7	7-11	8-3	8-6
350	3-8	4-3	4-11	5-7	6-4	6-8	7-0	7-5	7-9	8-1	8-5	8-9	9-1

Design Condition	4750 lb. max tension at 0°F							Ruling Span (Feet)	250		ARBUTUS - FINAL		
Conductor Condition	795 kcmil AAC - Arbutus Final Sag & Tension												
Temp (°F)	20	30	40	50	60	65	70	75	80	85	90	95	100
Tension (lbs)	3134.	2718.	2370.	2089.	1864.	1769.	1684.	1608.	1540.	1478.	1422.	1371.	1325.
Span	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*	*(Ft-In)*
Ruling Span Sag	1-11	2-2	2-6	2-10	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-5
50	0-1	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3
75	0-3	0-3	0-3	0-4	0-4	0-4	0-4	0-4	0-5	0-5	0-5	0-5	0-5
100	0-4	0-5	0-5	0-6	0-7	0-7	0-7	0-7	0-8	0-8	0-8	0-9	0-9
120	0-6	0-6	0-7	0-8	0-9	0-10	0-10	0-11	0-11	0-11	1-0	1-0	1-1
140	0-8	0-9	0-10	0-11	1-0	1-1	1-2	1-2	1-3	1-3	1-4	1-5	1-5
160	0-10	0-11	1-1	1-2	1-4	1-5	1-6	1-6	1-7	1-8	1-9	1-9	1-10
180	1-0	1-2	1-4	1-6	1-8	1-9	1-10	1-11	2-0	2-1	2-2	2-3	2-4
200	1-3	1-5	1-7	1-10	2-1	2-2	2-3	2-4	2-6	2-7	2-8	2-9	2-10
210	1-4	1-7	1-9	2-0	2-3	2-4	2-6	2-7	2-9	2-10	2-11	3-1	3-2
220	1-6	1-8	1-11	2-2	2-6	2-7	2-9	2-10	3-0	3-1	3-3	3-4	3-5
230	1-7	1-10	2-1	2-5	2-8	2-10	3-0	3-1	3-3	3-5	3-6	3-8	3-9
240	1-9	2-0	2-4	2-7	2-11	3-1	3-3	3-5	3-6	3-8	3-10	4-0	4-1
250	1-11	2-2	2-6	2-10	3-2	3-4	3-6	3-8	3-10	4-0	4-2	4-4	4-5
260	2-1	2-4	2-8	3-1	3-5	3-7	3-9	4-0	4-2	4-4	4-6	4-8	4-10
270	2-3	2-7	2-11	3-4	3-8	3-11	4-1	4-3	4-6	4-8	4-10	5-0	5-2
280	2-5	2-9	3-2	3-7	4-0	4-2	4-5	4-7	4-10	5-0	5-2	5-5	5-7
290	2-7	2-11	3-4	3-10	4-3	4-6	4-8	4-11	5-2	5-4	5-7	5-9	6-0
300	2-9	3-2	3-7	4-1	4-7	4-9	5-0	5-3	5-6	5-9	5-11	6-2	6-5
310	2-11	3-4	3-10	4-4	4-10	5-1	5-4	5-7	5-10	6-1	6-4	6-7	6-10
320	3-1	3-7	4-1	4-7	5-2	5-5	5-9	6-0	6-3	6-6	6-9	7-0	7-3
330	3-3	3-9	4-4	4-11	5-6	5-9	6-1	6-4	6-8	6-11	7-2	7-5	7-9
340	3-6	4-0	4-7	5-2	5-10	6-2	6-5	6-9	7-1	7-4	7-8	7-11	8-2
350	3-8	4-3	4-10	5-6	6-2	6-6	6-10	7-2	7-6	7-9	8-1	8-5	8-8