

Project: STANDARD
 Date: 2024/3/28
 Version: B

Wooden Equivalent Steel Pole Design Summary with Ground Sleeve

Height/Pole Class	POLE							STEP BOLTS Weight (lbs)	GL. Collar Weight (lbs)	Top Cap Weight (lbs)	Bearing Plate Weight (lbs)	TOTAL Galvanized Weight (lbs)	Embedded (ft)	GL. D (in)
	QTY	Height (ft)	BASE D (in)	TOP D (in)	Thick each section (in)	SHAFT BLACK WEIGHT (lbs)	SHAFT GAL. WEIGHT (lbs)							
35/3	1	35	11.86	5.31	0.118	383	402	0	114	2	10	535	5.5	0.426
40/3	1	40	12.56	5.31	0.118-0.118	486	511	0	121	2	11	651	6	0.452
45/3	1	45	13.49	5.31	0.118-0.118	570	598	0	130	2	13	750	6.5	0.485
50/3	1	50	14.43	5.31	0.118-0.118	671	705	0	139	2	15	868	7	0.518
55/3	1	55	15.36	5.31	0.118-0.118	766	804	0	148	2	16	978	7.5	0.551
60/3	1	60	16.30	5.31	0.118-0.118	869	912	0	157	2	18	1098	8	0.584
65/3	1	65	17.23	5.31	0.118-0.118	975	1023	0	166	2	20	1220	8.5	0.617
70/3	1	70	18.17	5.31	0.118-0.118	1089	1143	0	174	2	22	1352	9	0.650
75/3	1	75	19.10	5.31	0.118-0.118	1208	1268	0	183	2	25	1488	9.5	0.683
80/3	1	80	19.80	5.31	0.118-0.118-0.118	1390	1460	0	190	2	26	1689	10	0.708
85/3	1	85	20.74	5.31	0.118-0.118-0.118	1522	1599	0	199	2	29	1840	10.5	0.741
90/3	1	90	21.67	5.31	0.118-0.118-0.118	1674	1758	0	208	2	31	2011	11	0.775
95/3	1	95	22.61	5.31	0.118-0.118-0.118	1815	1906	0	217	2	34	2171	11.5	0.808
30/3	1	30	10.94	5.31	0.197	513	538	0	106	2	9	660	5	0.394
35/3	1	35	11.85	5.31	0.197	631	663	0	114	2	10	795	5.5	0.426
40/3	1	40	12.40	5.31	0.197-0.197	799	839	0	120	2	11	978	6	0.446
45/3	1	45	13.35	5.31	0.197-0.197	933	979	0	129	2	13	1130	6.5	0.480
50/3	1	50	14.29	5.31	0.197-0.197	1102	1157	0	138	2	14	1319	7	0.513
55/3	1	55	15.20	5.31	0.197-0.197	1261	1324	0	146	2	16	1496	7.5	0.545
60/3	1	60	16.14	5.31	0.197-0.197	1426	1497	0	155	2	18	1681	8	0.579
65/3	1	65	17.09	5.31	0.197-0.197	1602	1682	0	164	2	20	1877	8.5	0.612
70/3	1	70	18.03	5.31	0.197-0.197	1791	1880	0	173	2	22	2087	9	0.646
75/3	1	75	18.94	5.31	0.197-0.197	1987	2086	0	182	2	24	2304	9.5	0.678
80/3	1	80	19.49	5.31	0.197-0.197-0.197	2251	2363	0	187	2	26	2588	10	0.698
85/3	1	85	20.43	5.31	0.197-0.197-0.197	2464	2587	0	196	2	28	2824	10.5	0.731
90/3	1	90	21.38	5.31	0.197-0.197-0.197	2743	2881	0	205	2	31	3130	11	0.764
95/3	1	95	22.28	5.31	0.197-0.197-0.197	2977	3125	0	214	2	33	3386	11.5	0.796
40/2	1	40	12.01	7.48	0.197-0.197	882	926	0	120	3	10	1066	6	0.446
45/2	1	45	12.64	7.48	0.197-0.197	1012	1063	0	126	3	11	1210	6.5	0.468
50/2	1	50	13.23	7.48	0.197-0.197	1148	1206	0	131	3	12	1360	7	0.489
55/2	1	55	13.86	7.48	0.197-0.197	1320	1386	0	137	3	13	1548	7.5	0.511
60/2	1	60	14.49	7.48	0.197-0.197	1472	1545	0	143	3	15	1714	8	0.534
65/2	1	65	15.08	7.48	0.197-0.197	1628	1709	0	149	3	16	1886	8.5	0.555
70/2	1	70	15.71	7.48	0.197-0.197	1791	1880	0	155	3	17	2064	9	0.577
75/2	1	75	16.30	7.48	0.197-0.197	1960	2058	0	160	3	18	2249	9.5	0.598
80/2	1	80	16.54	7.48	0.197-0.197-0.197	2213	2324	0	163	3	19	2518	10	0.606
85/2	1	85	17.17	7.48	0.197-0.197-0.197	2391	2511	0	169	3	20	2713	10.5	0.629
90/2	1	90	17.76	7.48	0.197-0.197-0.197	2605	2735	0	174	3	22	2944	11	0.650
95/2	1	95	18.39	7.48	0.197-0.197-0.197	2796	2936	0	180	3	23	3153	11.5	0.672
100/2	1	100	18.98	7.48	0.197-0.197-0.197	2994	3144	0	186	3	24	3368	12	0.693
105/2	1	105	19.61	7.48	0.197-0.197-0.197	3199	3359	0	192	3	26	3591	12.5	0.715
110/2	1	110	20.24	7.48	0.197-0.197-0.197	3410	3581	0	198	3	28	3820	13	0.737
115/2	1	115	20.43	7.48	0.197-0.197-0.197-0.197	3749	3936	0	200	3	28	4179	13.5	0.745
120/2	1	120	21.06	7.48	0.197-0.197-0.197-0.197	3969	4167	0	206	3	30	4418	14	0.767
25/1	1	25	11.42	8.27	0.197	519	545	0	115	4	9	679	4.5	0.427
30/1	1	30	12.05	8.27	0.197	642	675	0	121	4	10	816	5	0.450
35/1	1	35	12.68	8.27	0.197	774	813	0	127	4	11	962	5.5	0.472
40/1	1	40	12.91	8.27	0.197-0.197	959	1007	0	129	4	12	1159	6	0.481
45/1	1	45	13.54	8.27	0.197-0.197	1100	1155	0	135	4	13	1314	6.5	0.503
50/1	1	50	14.17	8.27	0.197-0.197	1247	1310	0	141	4	14	1477	7	0.525
55/1	1	55	14.80	8.27	0.197-0.197	1430	1502	0	147	4	15	1676	7.5	0.548
60/1	1	60	15.43	8.27	0.197-0.197	1591	1670	0	153	4	17	1852	8	0.570
65/1	1	65	16.06	8.27	0.197-0.197	1758	1846	0	159	4	18	2035	8.5	0.592
70/1	1	70	16.69	8.27	0.197-0.197	1929	2026	0	165	4	19	2223	9	0.615
75/1	1	75	17.32	8.27	0.197-0.197	2110	2215	0	171	4	21	2420	9.5	0.637
80/1	1	80	17.56	8.27	0.197-0.197-0.197	2385	2504	0	173	4	21	2712	10	0.646
85/1	1	85	18.19	8.27	0.197-0.197-0.197	2574	2703	0	179	4	23	2918	10.5	0.668
90/1	1	90	18.82	8.27	0.197-0.197-0.197	2798	2938	0	185	4	24	3162	11	0.690
95/1	1	95	19.45	8.27	0.197-0.197-0.197	3001	3151	0	191	4	26	3382	11.5	0.712
100/1	1	100	20.08	8.27	0.197-0.197-0.197	3210	3370	0	197	4	27	3610	12	0.735
105/1	1	105	20.71	8.27	0.197-0.197-0.197	3425	3597	0	203	4	29	3844	12.5	0.757
110/1	1	110	21.34	8.27	0.197-0.197-0.197	3648	3830	0	209	4	31	4085	13	0.779
115/1	1	115	21.57	8.27	0.197-0.197-0.197-0.197	4013	4213	0	211	4	31	4472	13.5	0.788
120/1	1	120	22.20	8.27	0.197-0.197-0.197-0.197	4244	4456	0	217	4	33	4723	14	0.810
40/H1	1	40	13.82	9.06	0.197-0.197	1038	1090	0	138	4	13	1254	6	0.516
45/H1	1	45	14.45	9.06	0.197-0.197	1188	1247	0	144	4	15	1419	6.5	0.538
50/H1	1	50	15.08	9.06	0.197-0.197	1344	1411	0	150	4	16	1591	7	0.560
55/H1	1	55	15.75	9.06	0.197-0.197	1538	1615	0	157	4	17	1802	7.5	0.584
60/H1	1	60	16.42	9.06	0.197-0.197	1709	1795	0	163	4	19	1990	8	0.608
65/H1	1	65	17.05	9.06	0.197-0.197	1885	1980	0	169	4	20	2183	8.5	0.630
70/H1	1	70	17.68	9.06	0.197-0.197	2070	2174	0	175	4	21	2384	9	0.652
75/H1	1	75	18.35	9.06	0.197-0.197	2262	2375	0	181	4	23	2594	9.5	0.676
80/H1	1	80	18.58	9.06	0.197-0.197-0.197	2554	2682	0	184	4	23	2904	10	0.685
85/H1	1	85	19.25	9.06	0.197-0.197-0.197	2754	2892	0	190	4	25	3123	10.5	0.708
90/H1	1	90	19.88	9.06	0.197-0.197-0.197	2992	3142	0	196	4	27	3380	11	0.731
95/H1	1	95	20.51	9.06	0.197-0.197-0.197	3205	3366	0	202	4	28	3612	11.5	0.753
100/H1	1	100	21.18	9.06	0.197-0.197-0.197	3428	3599	0	208	4	30	3854	12	0.777
105/H1	1	105	21.81	9.06	0.197-0.197-0.197	3654	3837	0	214	4	32	4100	12.5	0.799
110/H1	1	110	22.44	9.06	0.197-0.197-0.197	3890	4084	0	220	4	34	4355	13	0.821
115/H1	1	115	22.72	9.06	0.197-0.197-0.197-0.197	4277	4491	0	223	4	34	4766	13.5	0.831
120/H1	1	120	23.35	9.06	0.197-0.197-0.197-0.197	4521	4747	0	229	4	36	5030	14	0.854
40/H2	1	40	14.96	9.84	0.197-0.197	1126	1183	0	150	5	16	1362	6	0.559
45/H2	1	45	15.67	9.84	0.197-0.197	1289	1354	0	157	5	17	1541	6.5	0.584
50/H2	1	50	16.34	9.84	0.197-0.197	1459	1532	0	163	5	18	1727	7	0.607
55/H2	1	55	17.05	9.84	0.197-0.197	1668	1751	0	170	5	20	1955	7.5	0.632
60/H2	1	60	17.72	9.84	0.197-0.197	1852	1945	0	176	5	21	2158	8	0.656
65/H2	1	65	18.43	9.84	0.197-0.197	2044	2146	0	183	5	23	2368	8.5	0.681
70/H2	1	70	19.09	9.84	0.197-0.197	2244	2356	0	189	5	25	2586	9	0.705
75/H2	1	75	19.80	9.84	0.197-0.197	2449	2571							

70/H3	1	70	20.43	10.63	0.197-0.197	2411	2532	0	203	6	28	2780	9	0.755
75/H3	1	75	21.18	10.63	0.197-0.197	2631	2763	0	210	6	30	3021	9.5	0.781
80/H3	1	80	21.54	10.63	0.197-0.197-0.197	2979	3128	0	213	6	31	3390	10	0.794
85/H3	1	85	22.24	10.63	0.197-0.197-0.197	3212	3373	0	220	6	33	3644	10.5	0.819
90/H3	1	90	22.99	10.63	0.197-0.197-0.197	3485	3659	0	227	6	35	3940	11	0.846
95/H3	1	95	23.70	10.63	0.197-0.197-0.197	3731	3918	0	234	6	37	4208	11.5	0.871
100/H3	1	100	24.45	10.63	0.197-0.197-0.197	3986	4186	0	241	6	40	4486	12	0.897
105/H3	1	105	25.16	10.63	0.197-0.197-0.197	4250	4463	0	247	6	42	4773	12.5	0.922
110/H3	1	110	25.91	10.63	0.197-0.197-0.197	4521	4747	0	255	6	44	5067	13	0.949
115/H3	1	115	26.22	10.63	0.236-0.197-0.197-0.197	5210	5470	0	258	6	45	5794	13.5	0.960
120/H3	1	120	26.97	10.63	0.236-0.197-0.197-0.197	5548	5826	0	265	6	48	6160	14	0.987
40/H4	1	40	17.60	12.01	0.197-0.197	1351	1418	0	177	7	21	1634	6	0.660
45/H4	1	45	18.35	12.01	0.197-0.197	1542	1619	0	184	7	23	1844	6.5	0.686
50/H4	1	50	19.13	12.01	0.197-0.197	1740	1827	0	192	7	25	2062	7	0.714
55/H4	1	55	19.88	12.01	0.197-0.197	1984	2084	0	199	7	27	2328	7.5	0.740
60/H4	1	60	20.63	12.01	0.197-0.197	2198	2308	0	206	7	29	2562	8	0.767
65/H4	1	65	21.38	12.01	0.197-0.197	2422	2543	0	213	7	31	2807	8.5	0.793
70/H4	1	70	22.13	12.01	0.197-0.197	2651	2784	0	220	7	33	3057	9	0.820
75/H4	1	75	22.48	12.01	0.197-0.197	3025	3176	0	223	7	34	3454	9.5	0.833
80/H4	1	80	23.23	12.01	0.197-0.197-0.197	3276	3440	0	231	7	36	3727	10	0.859
85/H4	1	85	23.98	12.01	0.197-0.197-0.197	3527	3703	0	238	7	38	4000	10.5	0.886
90/H4	1	90	24.72	12.01	0.197-0.197-0.197	3819	4010	0	245	7	40	4317	11	0.912
95/H4	1	95	25.47	12.01	0.197-0.197-0.197	4085	4290	0	252	7	43	4607	11.5	0.939
100/H4	1	100	26.22	12.01	0.197-0.197-0.197	4358	4576	0	259	7	45	4903	12	0.965
105/H4	1	105	26.97	12.01	0.197-0.197-0.197	4642	4874	0	266	7	48	5211	12.5	0.992
110/H4	1	110	27.32	12.01	0.197-0.197-0.197	5357	5625	0	269	7	49	5967	13	1.004
115/H4	1	115	28.07	12.01	0.236-0.197-0.197-0.197	5709	5994	0	277	7	52	6347	13.5	1.031
120/H4	1	120	28.82	12.01	0.236-0.197-0.197-0.197	6072	6376	0	284	7	54	6738	14	1.057
40/H5	1	40	18.43	12.60	0.197-0.197	1419	1490	0	185	8	23	1717	6	0.691
45/H5	1	45	19.21	12.60	0.197-0.197	1617	1698	0	193	8	25	1935	6.5	0.719
50/H5	1	50	20.00	12.60	0.197-0.197	1826	1917	0	200	8	27	2164	7	0.747
55/H5	1	55	20.79	12.60	0.197-0.197	2081	2185	0	208	8	29	2442	7.5	0.774
60/H5	1	60	21.54	12.60	0.197-0.197	2306	2421	0	215	8	31	2688	8	0.801
65/H5	1	65	22.36	12.60	0.197-0.197	2537	2663	0	223	8	33	2941	8.5	0.830
70/H5	1	70	23.11	12.60	0.197-0.197	2779	2918	0	230	8	36	3205	9	0.857
75/H5	1	75	23.50	12.60	0.236-0.197-0.197	3359	3527	0	234	8	37	3820	9.5	0.871
80/H5	1	80	24.29	12.60	0.236-0.197-0.197	3643	3825	0	241	8	39	4128	10	0.899
85/H5	1	85	25.08	12.60	0.236-0.197-0.197	3958	4156	0	249	8	42	4469	10.5	0.927
90/H5	1	90	25.87	12.60	0.236-0.197-0.197	4204	4414	0	256	8	44	4738	11	0.955
95/H5	1	95	26.61	12.60	0.236-0.197-0.197	4539	4766	0	263	8	47	5099	11.5	0.981
100/H5	1	100	27.40	12.60	0.236-0.197-0.197	4882	5126	0	271	8	49	5470	12	1.009
105/H5	1	105	28.19	12.60	0.236-0.197-0.197	5236	5498	0	278	8	52	5853	12.5	1.037
110/H5	1	110	28.50	12.60	0.236-0.236-0.197-0.197	5854	6147	0	281	8	53	6507	13	1.048
115/H5	1	115	29.29	12.60	0.236-0.236-0.197-0.197	6222	6533	0	289	8	56	6903	13.5	1.076
120/H5	1	120	30.04	12.60	0.236-0.236-0.197-0.197	6600	6930	0	296	8	59	7311	14	1.103
40/H6	1	40	20.12	14.17	0.197-0.197	1573	1652	0	203	10	27	1904	6	0.757
45/H6	1	45	20.91	14.17	0.197-0.197	1791	1880	0	211	10	29	2143	6.5	0.785
50/H6	1	50	21.73	14.17	0.197-0.197	2017	2118	0	218	10	32	2391	7	0.814
55/H6	1	55	22.52	14.17	0.197-0.197	2292	2407	0	226	10	34	2690	7.5	0.842
60/H6	1	60	23.31	14.17	0.197-0.197	2537	2663	0	233	10	36	2957	8	0.870
65/H6	1	65	24.13	14.17	0.197-0.197	2787	2927	0	241	10	39	3231	8.5	0.899
70/H6	1	70	24.92	14.17	0.197-0.197	3047	3199	0	249	10	41	3514	9	0.927
75/H6	1	75	25.31	14.17	0.236-0.197-0.197	3687	3872	0	252	10	42	4192	9.5	0.941
80/H6	1	80	26.10	14.17	0.236-0.197-0.197	3993	4193	0	260	10	45	4523	10	0.969
85/H6	1	85	26.89	14.17	0.236-0.197-0.197	4332	4548	0	267	10	48	4890	10.5	0.997
90/H6	1	90	27.68	14.17	0.236-0.197-0.197	4594	4823	0	275	10	50	5175	11	1.025
95/H6	1	95	28.50	14.17	0.236-0.197-0.197	4952	5200	0	283	10	53	5563	11.5	1.054
100/H6	1	100	29.29	14.17	0.236-0.197-0.197	5320	5586	0	290	10	56	5960	12	1.082
105/H6	1	105	30.08	14.17	0.236-0.197-0.197	5696	5981	0	298	10	59	6366	12.5	1.110
110/H6	1	110	30.39	14.17	0.236-0.236-0.197-0.197	6373	6692	0	301	10	60	7082	13	1.121
115/H6	1	115	31.18	14.17	0.236-0.236-0.197-0.197	6765	7103	0	308	10	63	7504	13.5	1.149
120/H6	1	120	32.01	14.17	0.236-0.236-0.197-0.197	7168	7526	0	316	10	67	7938	14	1.178
40/H7	1	40	20.67	14.57	0.236-0.197	1773	1862	0	209	11	29	2122	6	0.778
45/H7	1	45	21.46	14.57	0.236-0.197	2042	2144	0	216	11	31	2414	6.5	0.806
50/H7	1	50	22.28	14.57	0.236-0.197	2321	2437	0	224	11	33	2718	7	0.835
55/H7	1	55	23.07	14.57	0.236-0.197	2532	2659	0	231	11	35	2950	7.5	0.863
60/H7	1	60	23.90	14.57	0.236-0.197	2831	2973	0	239	11	38	3275	8	0.892
65/H7	1	65	24.72	14.57	0.236-0.197	3142	3299	0	247	11	40	3612	8.5	0.921
70/H7	1	70	25.51	14.57	0.236-0.197	3461	3634	0	255	11	43	3957	9	0.949
75/H7	1	75	25.87	14.57	0.236-0.236-0.197	3993	4193	0	258	11	44	4521	9.5	0.962
80/H7	1	80	26.65	14.57	0.236-0.236-0.197	4341	4558	0	266	11	47	4897	10	0.990
85/H7	1	85	27.48	14.57	0.236-0.236-0.197	4684	4918	0	273	11	50	5268	10.5	1.019
90/H7	1	90	28.27	14.57	0.236-0.236-0.197	5091	5345	0	281	11	52	5706	11	1.047
95/H7	1	95	29.09	14.57	0.236-0.236-0.197	5456	5729	0	289	11	55	6101	11.5	1.076
100/H7	1	100	29.88	14.57	0.236-0.236-0.197	5830	6122	0	296	11	58	6505	12	1.104
105/H7	1	105	30.71	14.57	0.236-0.236-0.197	6215	6526	0	304	11	62	6921	12.5	1.133
110/H7	1	110	31.02	14.57	0.236-0.236-0.236-0.197	6910	7256	0	307	11	63	7655	13	1.145
115/H7	1	115	31.85	14.57	0.236-0.236-0.236-0.197	7311	7676	0	315	11	66	8087	13.5	1.174
120/H7	1	120	32.68	14.57	0.236-0.236-0.236-0.197	7722	8108	0	323	11	69	8531	14	1.203
40/H8	1	40	21.18	14.96	0.236-0.197	1822	1913	0	214	11	30	2181	6	0.797
45/H8	1	45	22.01	14.96	0.236-0.197	2097	2201	0	222	11	32	2480	6.5	0.826
50/H8	1	50	22.83	14.96	0.236-0.197	2380	2499	0	230	11	35	2789	7	0.856
55/H8	1	55	23.66	14.96	0.236-0.197	2600	2730	0	237	11	37	3030	7.5	0.885
60/H8	1	60	24.45	14.96	0.236-0.197	2906	3052	0	245	11	40	3362	8	0.913
65/H8	1	65	25.28	14.96	0.236-0.197	3221	3382	0	253	11	42	3703	8.5	0.942
70/H8	1	70	26.10	14.96	0.236-0.197	3549	3726	0	261	11	45	4059	9	0.971
75/H8	1	75	26.46	14.96	0.236-0.236-0.197	4099	4304	0	264	11	46	4641	9.5	0.984
80/H8	1	80	27.28	14.96	0.236-0.236-0.197	4453	4675	0	272	11	49	5024	10	1.014
85/H8	1	85	28.11	14.96										

45/H10	1	45	23.03	15.75	0.236-0.197	2204	2315	0	232	12	35	2608	6.5	0.865
50/H10	1	50	23.90	15.75	0.236-0.197	2504	2629	0	240	12	38	2934	7	0.896
55/H10	1	55	24.76	15.75	0.236-0.197	2732	2869	0	249	12	41	3186	7.5	0.927
60/H10	1	60	25.59	15.75	0.236-0.197	3051	3204	0	256	12	43	3532	8	0.956
65/H10	1	65	26.46	15.75	0.236-0.197	3384	3553	0	265	12	46	3892	8.5	0.986
70/H10	1	70	27.32	15.75	0.236-0.197	3725	3911	0	273	12	49	4262	9	1.017
75/H10	1	75	27.72	15.75	0.276-0.236-0.197	4536	4763	0	277	12	50	5120	9.5	1.032
80/H10	1	80	28.54	15.75	0.276-0.236-0.197	4935	5181	0	285	12	53	5549	10	1.061
85/H10	1	85	29.41	15.75	0.276-0.236-0.197	5366	5634	0	293	12	57	6014	10.5	1.091
90/H10	1	90	30.28	15.75	0.276-0.236-0.197	5729	6015	0	301	12	60	6407	11	1.122
95/H10	1	95	31.14	15.75	0.276-0.236-0.197	6184	6493	0	309	12	63	6897	11.5	1.153
100/H10	1	100	31.97	15.75	0.276-0.236-0.197	6653	6985	0	317	12	67	7401	12	1.182
105/H10	1	105	32.83	15.75	0.276-0.236-0.197	7132	7489	0	325	12	70	7917	12.5	1.213
110/H10	1	110	33.15	15.75	0.276-0.276-0.236-0.197	8012	8413	0	328	12	71	8846	13	1.224
115/H10	1	115	33.98	15.75	0.276-0.276-0.236-0.197	8510	8935	0	336	12	75	9380	13.5	1.253
120/H10	1	120	34.84	15.75	0.276-0.276-0.236-0.197	9020	9471	0	344	12	79	9928	14	1.284
40/H11	1	40	23.23	16.54	0.236-0.197	2013	2114	0	235	13	36	2412	6	0.875
45/H11	1	45	24.09	16.54	0.236-0.197	2314	2430	0	243	13	39	2740	6.5	0.906
50/H11	1	50	25.00	16.54	0.236-0.197	2627	2758	0	252	13	41	3080	7	0.938
55/H11	1	55	25.87	16.54	0.236-0.197	2864	3008	0	260	13	44	3341	7.5	0.968
60/H11	1	60	26.77	16.54	0.236-0.197	3199	3359	0	268	13	47	3704	8	1.000
65/H11	1	65	27.64	16.54	0.236-0.197	3546	3724	0	277	13	50	4081	8.5	1.031
70/H11	1	70	28.54	16.54	0.236-0.197	3903	4098	0	285	13	53	4468	9	1.063
75/H11	1	75	28.94	16.54	0.276-0.236-0.197	4761	4999	0	289	13	55	5374	9.5	1.077
80/H11	1	80	29.84	16.54	0.276-0.236-0.197	5177	5435	0	298	13	58	5823	10	1.109
85/H11	1	85	30.71	16.54	0.276-0.236-0.197	5625	5907	0	306	13	62	6307	10.5	1.140
90/H11	1	90	31.61	16.54	0.276-0.236-0.197	6006	6306	0	314	13	65	6719	11	1.172
95/H11	1	95	32.48	16.54	0.276-0.236-0.197	6481	6805	0	323	13	69	7230	11.5	1.203
100/H11	1	100	33.39	16.54	0.276-0.236-0.197	6970	7318	0	331	13	72	7756	12	1.235
105/H11	1	105	34.25	16.54	0.276-0.236-0.197	7471	7845	0	340	13	76	8295	12.5	1.265
110/H11	1	110	34.61	16.54	0.276-0.276-0.236-0.197	8402	8822	0	343	13	78	9278	13	1.278
115/H11	1	115	35.47	16.54	0.276-0.276-0.236-0.197	8921	9367	0	351	13	81	9835	13.5	1.309
120/H11	1	120	36.38	16.54	0.276-0.276-0.236-0.197	9453	9926	0	360	13	86	10408	14	1.341

Project: STANDARD
Date: 2024/3/28
Version: A

Wooden Equivalent Steel Pole Design Summary Without Step Bolts and Ground Sleeve

Height/Pole Class	POLE							STEP BOLTS Weight (lbs)	GL. Collar Weight (lbs)	Top Cap Weight (lbs)	Bearing Plate Weight (lbs)	TOTAL Galvanized Weight (lbs)	Embedded (ft)	GL. D (in)
	QTY	Height (ft)	BASE D (in)	TOP D (in)	Thick each section (in)	SHAFT BLACK WEIGHT (lbs)	SHAFT GAL. WEIGHT (lbs)							
35/3	1	35	11.86	5.31	0.118	383	402	0	0	2	10	414	5.5	0.426
40/3	1	40	12.56	5.31	0.118-0.118	486	511	0	0	2	11	524	6	0.452
45/3	1	45	13.49	5.31	0.118-0.118	570	598	0	0	2	13	614	6.5	0.485
50/3	1	50	14.43	5.31	0.118-0.118	671	705	0	0	2	15	722	7	0.518
55/3	1	55	15.36	5.31	0.118-0.118	766	804	0	0	2	16	823	7.5	0.551
60/3	1	60	16.30	5.31	0.118-0.118	869	912	0	0	2	18	933	8	0.584
65/3	1	65	17.23	5.31	0.118-0.118	975	1023	0	0	2	20	1046	8.5	0.617
70/3	1	70	18.17	5.31	0.118-0.118	1089	1143	0	0	2	22	1169	9	0.650
75/3	1	75	19.10	5.31	0.118-0.118	1208	1268	0	0	2	25	1296	9.5	0.683
80/3	1	80	19.80	5.31	0.118-0.118-0.118	1390	1460	0	0	2	26	1490	10	0.708
85/3	1	85	20.74	5.31	0.118-0.118-0.118	1522	1599	0	0	2	29	1631	10.5	0.741
90/3	1	90	21.67	5.31	0.118-0.118-0.118	1674	1758	0	0	2	31	1793	11	0.775
95/3	1	95	22.61	5.31	0.118-0.118-0.118	1815	1906	0	0	2	34	1943	11.5	0.808
30/3	1	30	10.94	5.31	0.197	513	538	0	0	2	9	549	5	0.394
35/3	1	35	11.85	5.31	0.197	631	663	0	0	2	10	675	5.5	0.426
40/3	1	40	12.40	5.31	0.197-0.197	799	839	0	0	2	11	852	6	0.446
45/3	1	45	13.35	5.31	0.197-0.197	933	979	0	0	2	13	994	6.5	0.480
50/3	1	50	14.29	5.31	0.197-0.197	1102	1157	0	0	2	14	1174	7	0.513
55/3	1	55	15.20	5.31	0.197-0.197	1261	1324	0	0	2	16	1342	7.5	0.545
60/3	1	60	16.14	5.31	0.197-0.197	1426	1497	0	0	2	18	1518	8	0.579
65/3	1	65	17.09	5.31	0.197-0.197	1602	1682	0	0	2	20	1705	8.5	0.612
70/3	1	70	18.03	5.31	0.197-0.197	1791	1880	0	0	2	22	1905	9	0.646
75/3	1	75	18.94	5.31	0.197-0.197	1987	2086	0	0	2	24	2113	9.5	0.678
80/3	1	80	19.49	5.31	0.197-0.197-0.197	2251	2363	0	0	2	26	2392	10	0.698
85/3	1	85	20.43	5.31	0.197-0.197-0.197	2464	2587	0	0	2	28	2619	10.5	0.731
90/3	1	90	21.38	5.31	0.197-0.197-0.197	2743	2881	0	0	2	31	2915	11	0.764
95/3	1	95	22.28	5.31	0.197-0.197-0.197	2977	3125	0	0	2	33	3162	11.5	0.796
40/2	1	40	12.01	7.48	0.197-0.197	882	926	0	0	3	10	940	6	0.446
45/2	1	45	12.64	7.48	0.197-0.197	1012	1063	0	0	3	11	1078	6.5	0.468
50/2	1	50	13.23	7.48	0.197-0.197	1148	1206	0	0	3	12	1222	7	0.489
55/2	1	55	13.86	7.48	0.197-0.197	1320	1386	0	0	3	13	1403	7.5	0.511
60/2	1	60	14.49	7.48	0.197-0.197	1472	1545	0	0	3	15	1564	8	0.534
65/2	1	65	15.08	7.48	0.197-0.197	1628	1709	0	0	3	16	1729	8.5	0.555
70/2	1	70	15.71	7.48	0.197-0.197	1791	1880	0	0	3	17	1902	9	0.577
75/2	1	75	16.30	7.48	0.197-0.197	1960	2058	0	0	3	18	2081	9.5	0.598
80/2	1	80	16.54	7.48	0.197-0.197-0.197	2213	2324	0	0	3	19	2347	10	0.606
85/2	1	85	17.17	7.48	0.197-0.197-0.197	2391	2511	0	0	3	20	2535	10.5	0.629
90/2	1	90	17.76	7.48	0.197-0.197-0.197	2605	2735	0	0	3	22	2761	11	0.650
95/2	1	95	18.39	7.48	0.197-0.197-0.197	2796	2936	0	0	3	23	2963	11.5	0.672
100/2	1	100	18.98	7.48	0.197-0.197-0.197	2994	3144	0	0	3	24	3173	12	0.693
105/2	1	105	19.61	7.48	0.197-0.197-0.197	3199	3359	0	0	3	26	3389	12.5	0.715
110/2	1	110	20.24	7.48	0.197-0.197-0.197	3410	3581	0	0	3	28	3613	13	0.737
115/2	1	115	20.43	7.48	0.197-0.197-0.197-0.197	3749	3936	0	0	3	28	3969	13.5	0.745
120/2	1	120	21.06	7.48	0.197-0.197-0.197-0.197	3969	4167	0	0	3	30	4202	14	0.767
25/1	1	25	11.42	8.27	0.197	519	545	0	0	4	9	559	4.5	0.427
30/1	1	30	12.05	8.27	0.197	642	675	0	0	4	10	689	5	0.450
35/1	1	35	12.68	8.27	0.197	774	813	0	0	4	11	829	5.5	0.472
40/1	1	40	12.91	8.27	0.197-0.197	959	1007	0	0	4	12	1024	6	0.481
45/1	1	45	13.54	8.27	0.197-0.197	1100	1155	0	0	4	13	1173	6.5	0.503
50/1	1	50	14.17	8.27	0.197-0.197	1247	1310	0	0	4	14	1328	7	0.525
55/1	1	55	14.80	8.27	0.197-0.197	1430	1502	0	0	4	15	1521	7.5	0.548
60/1	1	60	15.43	8.27	0.197-0.197	1591	1670	0	0	4	17	1691	8	0.570
65/1	1	65	16.06	8.27	0.197-0.197	1758	1846	0	0	4	18	1868	8.5	0.592
70/1	1	70	16.69	8.27	0.197-0.197	1929	2026	0	0	4	19	2050	9	0.615
75/1	1	75	17.32	8.27	0.197-0.197	2110	2215	0	0	4	21	2241	9.5	0.637
80/1	1	80	17.56	8.27	0.197-0.197-0.197	2385	2504	0	0	4	21	2530	10	0.646
85/1	1	85	18.19	8.27	0.197-0.197-0.197	2574	2703	0	0	4	23	2730	10.5	0.668
90/1	1	90	18.82	8.27	0.197-0.197-0.197	2798	2938	0	0	4	24	2967	11	0.690
95/1	1	95	19.45	8.27	0.197-0.197-0.197	3001	3151	0	0	4	26	3182	11.5	0.712
100/1	1	100	20.08	8.27	0.197-0.197-0.197	3210	3370	0	0	4	27	3403	12	0.735
105/1	1	105	20.71	8.27	0.197-0.197-0.197	3425	3597	0	0	4	29	3631	12.5	0.757
110/1	1	110	21.34	8.27	0.197-0.197-0.197	3648	3830	0	0	4	31	3866	13	0.779
115/1	1	115	21.57	8.27	0.197-0.197-0.197-0.197	4013	4213	0	0	4	31	4250	13.5	0.788
120/1	1	120	22.20	8.27	0.197-0.197-0.197-0.197	4244	4456	0	0	4	33	4495	14	0.810
40/H1	1	40	13.82	9.06	0.197-0.197	1038	1090	0	0	4	13	1109	6	0.516
45/H1	1	45	14.45	9.06	0.197-0.197	1188	1247	0	0	4	15	1267	6.5	0.538
50/H1	1	50	15.08	9.06	0.197-0.197	1344	1411	0	0	4	16	1433	7	0.560
55/H1	1	55	15.75	9.06	0.197-0.197	1538	1615	0	0	4	17	1637	7.5	0.584
60/H1	1	60	16.42	9.06	0.197-0.197	1709	1795	0	0	4	19	1819	8	0.608
65/H1	1	65	17.05	9.06	0.197-0.197	1885	1980	0	0	4	20	2005	8.5	0.630
70/H1	1	70	17.68	9.06	0.197-0.197	2070	2174	0	0	4	21	2201	9	0.652
75/H1	1	75	18.35	9.06	0.197-0.197	2262	2375	0	0	4	23	2403	9.5	0.676
80/H1	1	80	18.58	9.06	0.197-0.197-0.197	2554	2682	0	0	4	23	2711	10	0.685
85/H1	1	85	19.25	9.06	0.197-0.197-0.197	2754	2892	0	0	4	25	2923	10.5	0.708
90/H1	1	90	19.88	9.06	0.197-0.197-0.197	2992	3142	0	0	4	27	3174	11	0.731
95/H1	1	95	20.51	9.06	0.197-0.197-0.197	3205	3366	0	0	4	28	3400	11.5	0.753
100/H1	1	100	21.18	9.06	0.197-0.197-0.197	3428	3599	0	0	4	30	3635	12	0.777
105/H1	1	105	21.81	9.06	0.197-0.197-0.197	3654	3837	0	0	4	32	3875	12.5	0.799
110/H1	1	110	22.44	9.06	0.197-0.197-0.197	3890	4084	0	0	4	34	4124	13	0.821
115/H1	1	115	22.72	9.06	0.197-0.197-0.197-0.197	4277	4491	0	0	4	34	4531	13.5	0.831
120/H1	1	120	23.35	9.06	0.197-0.197-0.197-0.197	4521	4747	0	0	4	36	4790	14	0.854
40/H2	1	40	14.96	9.84	0.197-0.197	1126	1183	0	0	5	16	1204	6	0.559
45/H2	1	45	15.67	9.84	0.197-0.197	1289	1354	0	0	5	17	1377	6.5	0.584
50/H2	1	50	16.34	9.84	0.197-0.197	1459	1532	0	0	5	18	1556	7	0.607
55/H2	1	55	17.05	9.84	0.197-0.197	1668	1751	0	0	5	20	1777	7.5	0.632
60/H2	1	60	17.72	9.84	0.197-0.197	1852	1945	0	0	5	21	1973	8	0.656
65/H2	1	65	18.43	9.84	0.197-0.197	2044	2146	0	0	5	23	2176	8.5	0.681
70/H2	1	70	19.09	9.84	0.197-0.197	2244	2356	0	0	5	25	2388	9	0.705
75/H2	1	75	19.80	9.84	0.197-0.197	2449	2571	0	0	5	26	2604	9.5	0.730
80/H2	1	80	20.08	9.84	0.197-0.197-0.197	2770	2908	0	0	5	27	2942	10</	

70/H3	1	70	20.43	10.63	0.197-0.197	2411	2532	0	0	6	28	2567	9	0.755
75/H3	1	75	21.18	10.63	0.197-0.197	2631	2763	0	0	6	30	2801	9.5	0.781
80/H3	1	80	21.54	10.63	0.197-0.197-0.197	2979	3128	0	0	6	31	3167	10	0.794
85/H3	1	85	22.24	10.63	0.197-0.197-0.197	3212	3373	0	0	6	33	3414	10.5	0.819
90/H3	1	90	22.99	10.63	0.197-0.197-0.197	3485	3659	0	0	6	35	3702	11	0.846
95/H3	1	95	23.70	10.63	0.197-0.197-0.197	3731	3918	0	0	6	37	3963	11.5	0.871
100/H3	1	100	24.45	10.63	0.197-0.197-0.197	3986	4186	0	0	6	40	4234	12	0.897
105/H3	1	105	25.16	10.63	0.197-0.197-0.197	4250	4463	0	0	6	42	4513	12.5	0.922
110/H3	1	110	25.91	10.63	0.197-0.197-0.197	4521	4747	0	0	6	44	4800	13	0.949
115/H3	1	115	26.22	10.63	0.236-0.197-0.197-0.197	5210	5470	0	0	6	45	5524	13.5	0.960
120/H3	1	120	26.97	10.63	0.236-0.197-0.197-0.197	5548	5826	0	0	6	48	5882	14	0.987
40/H4	1	40	17.60	12.01	0.197-0.197	1351	1418	0	0	7	21	1448	6	0.660
45/H4	1	45	18.35	12.01	0.197-0.197	1542	1619	0	0	7	23	1651	6.5	0.686
50/H4	1	50	19.13	12.01	0.197-0.197	1740	1827	0	0	7	25	1861	7	0.714
55/H4	1	55	19.88	12.01	0.197-0.197	1984	2084	0	0	7	27	2119	7.5	0.740
60/H4	1	60	20.63	12.01	0.197-0.197	2198	2308	0	0	7	29	2345	8	0.767
65/H4	1	65	21.38	12.01	0.197-0.197	2422	2543	0	0	7	31	2583	8.5	0.793
70/H4	1	70	22.13	12.01	0.197-0.197	2651	2784	0	0	7	33	2826	9	0.820
75/H4	1	75	22.48	12.01	0.197-0.197	3025	3176	0	0	7	34	3219	9.5	0.833
80/H4	1	80	23.23	12.01	0.197-0.197-0.197	3276	3440	0	0	7	36	3485	10	0.859
85/H4	1	85	23.98	12.01	0.197-0.197-0.197	3527	3703	0	0	7	38	3751	10.5	0.886
90/H4	1	90	24.72	12.01	0.197-0.197-0.197	3819	4010	0	0	7	40	4060	11	0.912
95/H4	1	95	25.47	12.01	0.197-0.197-0.197	4085	4290	0	0	7	43	4342	11.5	0.939
100/H4	1	100	26.22	12.01	0.197-0.197-0.197	4358	4576	0	0	7	45	4631	12	0.965
105/H4	1	105	26.97	12.01	0.197-0.197-0.197	4642	4874	0	0	7	48	4932	12.5	0.992
110/H4	1	110	27.32	12.01	0.197-0.197-0.197	5357	5625	0	0	7	49	5684	13	1.004
115/H4	1	115	28.07	12.01	0.236-0.197-0.197-0.197	5709	5994	0	0	7	52	6057	13.5	1.031
120/H4	1	120	28.82	12.01	0.236-0.197-0.197-0.197	6072	6376	0	0	7	54	6440	14	1.057
40/H5	1	40	18.43	12.60	0.197-0.197	1419	1490	0	0	8	23	1523	6	0.691
45/H5	1	45	19.21	12.60	0.197-0.197	1617	1698	0	0	8	25	1733	6.5	0.719
50/H5	1	50	20.00	12.60	0.197-0.197	1826	1917	0	0	8	27	1954	7	0.747
55/H5	1	55	20.79	12.60	0.197-0.197	2081	2185	0	0	8	29	2224	7.5	0.774
60/H5	1	60	21.54	12.60	0.197-0.197	2306	2421	0	0	8	31	2462	8	0.801
65/H5	1	65	22.36	12.60	0.197-0.197	2537	2663	0	0	8	33	2707	8.5	0.830
70/H5	1	70	23.11	12.60	0.197-0.197	2779	2918	0	0	8	36	2963	9	0.857
75/H5	1	75	23.50	12.60	0.236-0.197-0.197	3359	3527	0	0	8	37	3574	9.5	0.871
80/H5	1	80	24.29	12.60	0.236-0.197-0.197	3643	3825	0	0	8	39	3875	10	0.899
85/H5	1	85	25.08	12.60	0.236-0.197-0.197	3958	4156	0	0	8	42	4208	10.5	0.927
90/H5	1	90	25.87	12.60	0.236-0.197-0.197	4204	4414	0	0	8	44	4469	11	0.955
95/H5	1	95	26.61	12.60	0.236-0.197-0.197	4539	4766	0	0	8	47	4823	11.5	0.981
100/H5	1	100	27.40	12.60	0.236-0.197-0.197	4882	5126	0	0	8	49	5186	12	1.009
105/H5	1	105	28.19	12.60	0.236-0.197-0.197	5236	5498	0	0	8	52	5561	12.5	1.037
110/H5	1	110	28.50	12.60	0.236-0.236-0.197-0.197	5854	6147	0	0	8	53	6211	13	1.048
115/H5	1	115	29.29	12.60	0.236-0.236-0.197-0.197	6222	6533	0	0	8	56	6600	13.5	1.076
120/H5	1	120	30.04	12.60	0.236-0.236-0.197-0.197	6600	6930	0	0	8	59	7000	14	1.103
40/H6	1	40	20.12	14.17	0.197-0.197	1573	1652	0	0	10	27	1691	6	0.757
45/H6	1	45	20.91	14.17	0.197-0.197	1791	1880	0	0	10	29	1922	6.5	0.785
50/H6	1	50	21.73	14.17	0.197-0.197	2017	2118	0	0	10	32	2162	7	0.814
55/H6	1	55	22.52	14.17	0.197-0.197	2292	2407	0	0	10	34	2453	7.5	0.842
60/H6	1	60	23.31	14.17	0.197-0.197	2537	2663	0	0	10	36	2712	8	0.870
65/H6	1	65	24.13	14.17	0.197-0.197	2787	2927	0	0	10	39	2978	8.5	0.899
70/H6	1	70	24.92	14.17	0.197-0.197	3047	3199	0	0	10	41	3253	9	0.927
75/H6	1	75	25.31	14.17	0.236-0.197-0.197	3687	3872	0	0	10	42	3927	9.5	0.941
80/H6	1	80	26.10	14.17	0.236-0.197-0.197	3993	4193	0	0	10	45	4250	10	0.969
85/H6	1	85	26.89	14.17	0.236-0.197-0.197	4332	4548	0	0	10	48	4609	10.5	0.997
90/H6	1	90	27.68	14.17	0.236-0.197-0.197	4594	4823	0	0	10	50	4887	11	1.025
95/H6	1	95	28.50	14.17	0.236-0.197-0.197	4952	5200	0	0	10	53	5266	11.5	1.054
100/H6	1	100	29.29	14.17	0.236-0.197-0.197	5320	5586	0	0	10	56	5655	12	1.082
105/H6	1	105	30.08	14.17	0.236-0.197-0.197	5696	5981	0	0	10	59	6053	12.5	1.110
110/H6	1	110	30.39	14.17	0.236-0.236-0.197-0.197	6373	6692	0	0	10	60	6766	13	1.121
115/H6	1	115	31.18	14.17	0.236-0.236-0.197-0.197	6765	7103	0	0	10	63	7180	13.5	1.149
120/H6	1	120	32.01	14.17	0.236-0.236-0.197-0.197	7168	7526	0	0	10	67	7607	14	1.178
40/H7	1	40	20.67	14.57	0.236-0.197	1773	1862	0	0	11	29	1903	6	0.778
45/H7	1	45	21.46	14.57	0.236-0.197	2042	2144	0	0	11	31	2187	6.5	0.806
50/H7	1	50	22.28	14.57	0.236-0.197	2321	2437	0	0	11	33	2483	7	0.835
55/H7	1	55	23.07	14.57	0.236-0.197	2532	2659	0	0	11	35	2707	7.5	0.863
60/H7	1	60	23.90	14.57	0.236-0.197	2831	2973	0	0	11	38	3024	8	0.892
65/H7	1	65	24.72	14.57	0.236-0.197	3142	3299	0	0	11	40	3352	8.5	0.921
70/H7	1	70	25.51	14.57	0.236-0.197	3461	3634	0	0	11	43	3690	9	0.949
75/H7	1	75	25.87	14.57	0.236-0.236-0.197	3993	4193	0	0	11	44	4250	9.5	0.962
80/H7	1	80	26.65	14.57	0.236-0.236-0.197	4341	4558	0	0	11	47	4618	10	0.990
85/H7	1	85	27.48	14.57	0.236-0.236-0.197	4684	4918	0	0	11	50	4981	10.5	1.019
90/H7	1	90	28.27	14.57	0.236-0.236-0.197	5091	5345	0	0	11	52	5411	11	1.047
95/H7	1	95	29.09	14.57	0.236-0.236-0.197	5456	5729	0	0	11	55	5798	11.5	1.076
100/H7	1	100	29.88	14.57	0.236-0.236-0.197	5830	6122	0	0	11	58	6194	12	1.104
105/H7	1	105	30.71	14.57	0.236-0.236-0.197	6215	6526	0	0	11	62	6601	12.5	1.133
110/H7	1	110	31.02	14.57	0.236-0.236-0.236-0.197	6910	7256	0	0	11	63	7333	13	1.145
115/H7	1	115	31.85	14.57	0.236-0.236-0.236-0.197	7311	7676	0	0	11	66	7757	13.5	1.174
120/H7	1	120	32.68	14.57	0.236-0.236-0.236-0.197	7722	8108	0	0	11	69	8192	14	1.203
40/H8	1	40	21.18	14.96	0.236-0.197	1822	1913	0	0	11	30	1956	6	0.797
45/H8	1	45	22.01	14.96	0.236-0.197	2097	2201	0	0	11	32	2247	6.5	0.826
50/H8	1	50	22.83	14.96	0.236-0.197	2380	2499	0	0	11	35	2548	7	0.856
55/H8	1	55	23.66	14.96	0.236-0.197	2600	2730	0	0	11	37	2781	7.5	0.885
60/H8	1	60	24.45	14.96	0.236-0.197	2906	3052	0	0	11	40	3105	8	0.913
65/H8	1	65	25.28	14.96	0.236-0.197	3221	3382	0	0	11	42	3438	8.5	0.942
70/H8	1	70	26.10	14.96	0.236-0.197	3549	3726	0	0	11	45	3785	9	0.971
75/H8	1	75	26.46	14.96	0.236-0.236-0.197	4099	4304	0	0	11	46	4364	9.5	0.984
80/H8	1	80	27.28	14.96	0.236-0.236-0.197	4453	4675	0	0	11	49	4739	10	1.014
85/H8	1	85	28.11	14.96	0.236-0.236-0.197	4805	5045	0	0	11	52	5111	10.5	1.043
90/H8	1	90	28.94	14.96	0.236-0.236-0.197	5221	5482							

45/H10	1	45	23.03	15.75	0.236-0.197	2204	2315	0	0	12	35	2365	6.5	0.865
50/H10	1	50	23.90	15.75	0.236-0.197	2504	2629	0	0	12	38	2681	7	0.896
55/H10	1	55	24.76	15.75	0.236-0.197	2732	2869	0	0	12	41	2925	7.5	0.927
60/H10	1	60	25.59	15.75	0.236-0.197	3051	3204	0	0	12	43	3262	8	0.956
65/H10	1	65	26.46	15.75	0.236-0.197	3384	3553	0	0	12	46	3614	8.5	0.986
70/H10	1	70	27.32	15.75	0.236-0.197	3725	3911	0	0	12	49	3975	9	1.017
75/H10	1	75	27.72	15.75	0.276-0.236-0.197	4536	4763	0	0	12	50	4829	9.5	1.032
80/H10	1	80	28.54	15.75	0.276-0.236-0.197	4935	5181	0	0	12	53	5250	10	1.061
85/H10	1	85	29.41	15.75	0.276-0.236-0.197	5366	5634	0	0	12	57	5706	10.5	1.091
90/H10	1	90	30.28	15.75	0.276-0.236-0.197	5729	6015	0	0	12	60	6091	11	1.122
95/H10	1	95	31.14	15.75	0.276-0.236-0.197	6184	6493	0	0	12	63	6573	11.5	1.153
100/H10	1	100	31.97	15.75	0.276-0.236-0.197	6653	6985	0	0	12	67	7068	12	1.182
105/H10	1	105	32.83	15.75	0.276-0.236-0.197	7132	7489	0	0	12	70	7575	12.5	1.213
110/H10	1	110	33.15	15.75	0.276-0.276-0.236-0.197	8012	8413	0	0	12	71	8501	13	1.224
115/H10	1	115	33.98	15.75	0.276-0.276-0.236-0.197	8510	8935	0	0	12	75	9027	13.5	1.253
120/H10	1	120	34.84	15.75	0.276-0.276-0.236-0.197	9020	9471	0	0	12	79	9566	14	1.284
40/H11	1	40	23.23	16.54	0.236-0.197	2013	2114	0	0	13	36	2165	6	0.875
45/H11	1	45	24.09	16.54	0.236-0.197	2314	2430	0	0	13	39	2485	6.5	0.906
50/H11	1	50	25.00	16.54	0.236-0.197	2627	2758	0	0	13	41	2816	7	0.938
55/H11	1	55	25.87	16.54	0.236-0.197	2864	3008	0	0	13	44	3068	7.5	0.968
60/H11	1	60	26.77	16.54	0.236-0.197	3199	3359	0	0	13	47	3422	8	1.000
65/H11	1	65	27.64	16.54	0.236-0.197	3546	3724	0	0	13	50	3791	8.5	1.031
70/H11	1	70	28.54	16.54	0.236-0.197	3903	4098	0	0	13	53	4168	9	1.063
75/H11	1	75	28.94	16.54	0.276-0.236-0.197	4761	4999	0	0	13	55	5071	9.5	1.077
80/H11	1	80	29.84	16.54	0.276-0.236-0.197	5177	5435	0	0	13	58	5511	10	1.109
85/H11	1	85	30.71	16.54	0.276-0.236-0.197	5625	5907	0	0	13	62	5985	10.5	1.140
90/H11	1	90	31.61	16.54	0.276-0.236-0.197	6006	6306	0	0	13	65	6389	11	1.172
95/H11	1	95	32.48	16.54	0.276-0.236-0.197	6481	6805	0	0	13	69	6891	11.5	1.203
100/H11	1	100	33.39	16.54	0.276-0.236-0.197	6970	7318	0	0	13	72	7408	12	1.235
105/H11	1	105	34.25	16.54	0.276-0.236-0.197	7471	7845	0	0	13	76	7939	12.5	1.265
110/H11	1	110	34.61	16.54	0.276-0.276-0.236-0.197	8402	8822	0	0	13	78	8917	13	1.278
115/H11	1	115	35.47	16.54	0.276-0.276-0.236-0.197	8921	9367	0	0	13	81	9467	13.5	1.309
120/H11	1	120	36.38	16.54	0.276-0.276-0.236-0.197	9453	9926	0	0	13	86	10030	14	1.341