

MAGNOLIA MARINE - BARGE "MM 110"

INNAGE TABLE

1 PORT

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

0 FEET	1 FEET	2 FEET	3 FEET	4 FEET	5 FEET	6 FEET	7 FEET	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	13 FEET	14 FEET															
IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.															
0	10.20	0	168.48	0	379.40	0	630.81	0	889.63	0	1148.45	0	1407.26	0	1666.08	0	1924.89	0	2183.71	0	2442.53	0	2701.34	0	2960.16	0	3218.97	0	3477.79
1/4	11.91	1/4	172.35	1/4	384.20	1/4	636.21	1/4	895.02	1/4	1153.84	1/4	1412.65	1/4	1671.47	1/4	1930.29	1/4	2189.10	1/4	2447.92	1/4	2706.73	1/4	2965.55	1/4	3224.37	1/4	3483.18
1/2	13.62	1/2	176.22	1/2	389.01	1/2	641.60	1/2	900.41	1/2	1159.23	1/2	1418.05	1/2	1676.86	1/2	1935.68	1/2	2194.49	1/2	2453.31	1/2	2712.13	1/2	2970.94	1/2	3229.76	1/2	3488.57
3/4	15.33	3/4	180.08	3/4	393.81	3/4	646.99	3/4	905.81	3/4	1164.62	3/4	1423.44	3/4	1682.25	3/4	1941.07	3/4	2199.89	3/4	2458.70	3/4	2717.52	3/4	2976.33	3/4	3235.15	3/4	3493.97
1	17.76	1	184.18	1	398.85	1	652.38	1	911.20	1	1170.01	1	1428.83	1	1687.65	1	1946.46	1	2205.28	1	2464.09	1	2722.91	1	2981.73	1	3240.54	1	3499.36
1/4	20.19	1/4	188.28	1/4	403.89	1/4	657.77	1/4	916.59	1/4	1175.41	1/4	1434.22	1/4	1693.04	1/4	1951.85	1/4	2210.67	1/4	2469.49	1/4	2728.30	1/4	2987.12	1/4	3245.93	1/4	3504.23
1/2	22.62	1/2	192.39	1/2	408.93	1/2	663.17	1/2	921.98	1/2	1180.80	1/2	1439.61	1/2	1698.43	1/2	1957.25	1/2	2216.06	1/2	2474.88	1/2	2733.69	1/2	2992.51	1/2	3251.33	1/2	3509.11
3/4	25.05	3/4	196.49	3/4	413.97	3/4	668.56	3/4	927.37	3/4	1186.19	3/4	1445.01	3/4	1703.82	3/4	1962.64	3/4	2221.45	3/4	2480.27	3/4	2739.09	3/4	2997.90	3/4	3256.72	3/4	3513.99
2	27.96	2	200.59	2	419.01	2	673.95	2	932.77	2	1191.58	2	1450.40	2	1709.21	2	1968.03	2	2226.85	2	2485.66	2	2744.48	2	3003.29	2	3262.11	2	3518.87
1/4	30.88	1/4	204.69	1/4	424.05	1/4	679.34	1/4	938.16	1/4	1196.97	1/4	1455.79	1/4	1714.61	1/4	1973.42	1/4	2232.24	1/4	2491.05	1/4	2749.87	1/4	3008.69	1/4	3267.50	1/4	3522.71
1/2	33.80	1/2	208.79	1/2	429.09	1/2	684.73	1/2	943.55	1/2	1202.37	1/2	1461.18	1/2	1720.00	1/2	1978.81	1/2	2237.63	1/2	2496.45	1/2	2755.26	1/2	3014.08	1/2	3272.89	1/2	3526.56
3/4	36.72	3/4	212.89	3/4	434.13	3/4	690.13	3/4	948.94	3/4	1207.76	3/4	1466.57	3/4	1725.39	3/4	1984.21	3/4	2243.02	3/4	2501.84	3/4	2760.65	3/4	3019.47	3/4	3278.29	3/4	3530.41
3	39.88	3	216.99	3	439.17	3	695.52	3	954.33	3	1213.15	3	1471.97	3	1730.78	3	1989.60	3	2248.41	3	2507.23	3	2766.05	3	3024.86	3	3283.68	3	3534.25
1/4	43.04	1/4	221.09	1/4	444.21	1/4	700.91	1/4	959.73	1/4	1218.54	1/4	1477.36	1/4	1736.17	1/4	1994.99	1/4	2253.81	1/4	2512.62	1/4	2771.44	1/4	3030.25	1/4	3289.07	1/4	3537.07
1/2	46.20	1/2	225.19	1/2	449.25	1/2	706.30	1/2	965.12	1/2	1223.93	1/2	1482.75	1/2	1741.57	1/2	2000.38	1/2	2259.20	1/2	2518.01	1/2	2776.83	1/2	3035.65	1/2	3294.46	1/2	3539.89
3/4	49.37	3/4	229.29	3/4	454.29	3/4	711.69	3/4	970.51	3/4	1229.33	3/4	1488.14	3/4	1746.96	3/4	2005.77	3/4	2264.59	3/4	2523.41	3/4	2782.22	3/4	3041.04	3/4	3299.85	3/4	3542.70
4	52.76	4	233.63	4	459.57	4	717.09	4	975.90	4	1234.72	4	1493.53	4	1752.35	4	2011.17	4	2269.98	4	2528.80	4	2787.61	4	3046.43	4	3305.25	4	3545.52
1/4	56.16	1/4	237.96	1/4	464.84	1/4	722.48	1/4	981.29	1/4	1240.11	1/4	1498.93	1/4	1757.74	1/4	2016.56	1/4	2275.37	1/4	2534.19	1/4	2793.01	1/4	3051.82	1/4	3310.64	1/4	3547.31
1/2	59.55	1/2	242.30	1/2	470.12	1/2	727.87	1/2	986.69	1/2	1245.50	1/2	1504.32	1/2	1763.13	1/2	2021.95	1/2	2280.77	1/2	2539.58	1/2	2798.40	1/2	3057.21	1/2	3316.03	1/2	3549.09
3/4	62.95	3/4	246.63	3/4	475.39	3/4	733.26	3/4	992.08	3/4	1250.89	3/4	1509.71	3/4	1768.53	3/4	2027.34	3/4	2286.16	3/4	2544.97	3/4	2803.79	3/4	3062.61	3/4	3321.42	3/4	3550.88
5	66.35	5	250.97	5	480.66	5	738.65	5	997.47	5	1256.29	5	1515.10	5	1773.92	5	2032.73	5	2291.55	5	2550.37	5	2809.18	5	3068.00	5	3326.81	5	3552.67
1/4	69.74	1/4	255.30	1/4	485.94	1/4	744.05	1/4	1002.86	1/4	1261.68	1/4	1520.49	1/4	1779.31	1/4	2038.13	1/4	2296.94	1/4	2555.76	1/4	2814.57	1/4	3073.39	1/4	3332.21	1/4	3553.42
1/2	73.14	1/2	259.64	1/2	491.21	1/2	749.44	1/2	1008.25	1/2	1267.07	1/2	1525.89	1/2	1784.70	1/2	2043.52	1/2	2302.33	1/2	2561.15	1/2	2819.97	1/2	3078.78	1/2	3337.60	1/2	3554.18
3/4	76.53	3/4	263.97	3/4	496.49	3/4	754.83	3/4	1013.65	3/4	1272.46	3/4	1531.28	3/4	1790.09	3/4	2048.91	3/4	2307.73	3/4	2566.54	3/4	2825.36	3/4	3084.17	3/4	3342.99	3/4	3554.93
6	79.93	6	268.31	6	501.76	6	760.22	6	1019.04	6	1277.85	6	1536.67	6	1795.49	6	2054.30	6	2313.12	6	2571.93	6	2830.75	6	3089.57	6	3348.38	6	3555.69
1/4	83.33	1/4	272.64	1/4	507.03	1/4	765.61	1/4	1024.43	1/4	1283.25	1/4	1542.06	1/4	1800.88	1/4	2059.69	1/4	2318.51	1/4	2577.33	1/4	2836.14	1/4	3094.96	1/4	3353.77	1/4	3555.80
1/2	86.72	1/2	276.98	1/2	512.31	1/2	771.01	1/2	1029.82	1/2	1288.64	1/2	1547.45	1/2	1806.27	1/2	2065.09	1/2	2323.90	1/2	2582.72	1/2	2841.53	1/2	3100.35	1/2	3359.17	1/2	
3/4	90.12	3/4	281.31	3/4	517.58	3/4	776.40	3/4	1035.21	3/4	1294.03	3/4	1552.85	3/4	1811.66	3/4	2070.48	3/4	2329.29	3/4	2588.11	3/4	2846.93	3/4	3105.74	3/4	3364.56	3/4	
7	93.75	7	285.88	7	522.97	7	781.79	7	1040.61	7	1299.42	7	1558.24	7	1817.05	7	2075.87	7	2334.69	7	2593.50	7	2852.32	7	3111.13	7	3369.95	7	
1/4	97.38	1/4	290.45	1/4	528.37	1/4	787.18	1/4	1046.00	1/4	1304.81	1/4	1563.63	1/4	1822.45	1/4	2081.26	1/4	2340.08	1/4	2598.89	1/4	2857.71	1/4	3116.53	1/4	3375.34	1/4	
1/2	101.01	1/2	295.02	1/2	533.76	1/2	792.57	1/2	1051.39	1/2	1310.21	1/2	1569.02	1/2	1827.84	1/2	2086.65	1/2	2345.47	1/2	2604.29	1/2	2863.10	1/2	3121.92	1/2	3380.73	1/2	
3/4	104.64	3/4	299.59	3/4	539.15	3/4	797.97	3/4	1056.78	3/4	1315.60	3/4	1574.41	3/4	1833.23	3/4	2092.05	3/4	2350.86	3/4	2609.68	3/4	2868.49	3/4	3127.31	3/4	3386.13	3/4	
8	108.27	8	304.16	8	544.54	8	803.36	8	1062.17	8	1320.99	8	1579.81	8	1838.62	8	2097.44	8	2356.25	8	2615.07	8	2873.89	8	3132.70	8	3391.52	8	
1/4	111.90	1/4	308.73	1/4	549.93	1/4	808.75	1/4	1067.57	1/4	1326.38	1/4	1585.20	1/4	1844.01	1/4	2102.83	1/4	2361.65	1/4	2620.46	1/4	2879.28	1/4	3138.09	1/4	3396.91	1/4	
1/2	115.54	1/2	313.30	1/2	555.33	1/2	814.14	1/2	1072.96	1/2	1331.77	1/2	1590.59	1/2	1849.41	1/2	2108.22	1/2	2367.04	1/2	2625.85	1/2	2884.67	1/2	3143.49	1/2	3402.30	1/2	
3/4	119.17	3/4	317.87	3/4	560.72	3/4	819.53	3/4	1078.35	3/4	1337.17	3/4	1595.98	3/4	1854.80	3/4	2113.61	3/4	2372.43	3/4	2631.25	3/4	2890.06	3/4	3148.88	3/4	3407.69	3/4	
9	122.80	9	322.44	9	566.11	9	824.93	9	1083.74	9	1342.56	9	1601.37	9	1860.19	9	2119.01	9	2377.82	9	2636.64	9	2895.45	9	3154.27	9	3413.09	9	
1/4	126.43	1/4	327.01	1/4	571.50	1/4	830.32	1/4	1089.13	1/4	1347.95	1/4	1606.77	1/4	1865.58	1/4	2124.40	1/4	2383.21	1/4	2642.03	1/4	2900.85	1/4	3159.66	1/4	3418.48	1/4	
1/2	130.06	1/2	331.58	1/2	576.89	1/2	835.71	1/2	1094.53	1/2	1353.34	1/2	1612.16	1/2	1870.97	1/2	2129.79	1/2	2388.61	1/2	2647.42	1/2	2906.24	1/2	3165.05	1/2	3423.87	1/2	
3/4	133.69																												

MAGNOLIA MARINE - BARGE "MM 110"

INNAGE TABLE

1 STAR

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

0 FEET		1 FEET		2 FEET		3 FEET		4 FEET		5 FEET		6 FEET		7 FEET		8 FEET		9 FEET		10 FEET		11 FEET		12 FEET		13 FEET		14 FEET	
IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.	
0	10.20	0	168.48	0	379.40	0	630.81	0	889.63	0	1148.45	0	1407.26	0	1666.08	0	1924.89	0	2183.71	0	2442.53	0	2701.34	0	2960.16	0	3218.97	0	3477.79
1/4	11.91	1/4	172.35	1/4	384.20	1/4	636.21	1/4	895.02	1/4	1153.84	1/4	1412.65	1/4	1671.47	1/4	1930.29	1/4	2189.10	1/4	2447.92	1/4	2706.73	1/4	2965.55	1/4	3224.37	1/4	3483.18
1/2	13.62	1/2	176.22	1/2	389.01	1/2	641.60	1/2	900.41	1/2	1159.23	1/2	1418.05	1/2	1676.86	1/2	1935.68	1/2	2194.49	1/2	2453.31	1/2	2712.13	1/2	2970.94	1/2	3229.76	1/2	3488.57
3/4	15.33	3/4	180.08	3/4	393.81	3/4	646.99	3/4	905.81	3/4	1164.62	3/4	1423.44	3/4	1682.25	3/4	1941.07	3/4	2199.89	3/4	2458.70	3/4	2717.52	3/4	2976.33	3/4	3235.15	3/4	3493.97
1	17.76	1	184.18	1	398.85	1	652.38	1	911.20	1	1170.01	1	1428.83	1	1687.65	1	1946.46	1	2205.28	1	2464.09	1	2722.91	1	2981.73	1	3240.54	1	3499.36
1/4	20.19	1/4	188.28	1/4	403.89	1/4	657.77	1/4	916.59	1/4	1175.41	1/4	1434.22	1/4	1693.04	1/4	1951.85	1/4	2210.67	1/4	2469.49	1/4	2728.30	1/4	2987.12	1/4	3245.93	1/4	3504.23
1/2	22.62	1/2	192.39	1/2	408.93	1/2	663.17	1/2	921.98	1/2	1180.80	1/2	1439.61	1/2	1698.43	1/2	1957.25	1/2	2216.06	1/2	2474.88	1/2	2733.69	1/2	2992.51	1/2	3251.33	1/2	3509.11
3/4	25.05	3/4	196.49	3/4	413.97	3/4	668.56	3/4	927.37	3/4	1186.19	3/4	1445.01	3/4	1703.82	3/4	1962.64	3/4	2221.45	3/4	2480.27	3/4	2739.09	3/4	2997.90	3/4	3256.72	3/4	3513.99
2	27.96	2	200.59	2	419.01	2	673.95	2	932.77	2	1191.58	2	1450.40	2	1709.21	2	1968.03	2	2226.85	2	2485.66	2	2744.48	2	3003.29	2	3262.11	2	3518.87
1/4	30.88	1/4	204.69	1/4	424.05	1/4	679.34	1/4	938.16	1/4	1196.97	1/4	1455.79	1/4	1714.61	1/4	1973.42	1/4	2232.24	1/4	2491.05	1/4	2749.87	1/4	3008.69	1/4	3267.50	1/4	3522.71
1/2	33.80	1/2	208.79	1/2	429.09	1/2	684.73	1/2	943.55	1/2	1202.37	1/2	1461.18	1/2	1720.00	1/2	1978.81	1/2	2237.63	1/2	2496.45	1/2	2755.26	1/2	3014.08	1/2	3272.89	1/2	3526.56
3/4	36.72	3/4	212.89	3/4	434.13	3/4	690.13	3/4	948.94	3/4	1207.76	3/4	1466.57	3/4	1725.39	3/4	1984.21	3/4	2243.02	3/4	2501.84	3/4	2760.65	3/4	3019.47	3/4	3278.29	3/4	3530.41
3	39.88	3	216.99	3	439.17	3	695.52	3	954.33	3	1213.15	3	1471.97	3	1730.78	3	1989.60	3	2248.41	3	2507.23	3	2766.05	3	3024.86	3	3283.68	3	3534.25
1/4	43.04	1/4	221.09	1/4	444.21	1/4	700.91	1/4	959.73	1/4	1218.54	1/4	1477.36	1/4	1736.17	1/4	1994.99	1/4	2253.81	1/4	2512.62	1/4	2771.44	1/4	3030.25	1/4	3289.07	1/4	3537.07
1/2	46.20	1/2	225.19	1/2	449.25	1/2	706.30	1/2	965.12	1/2	1223.93	1/2	1482.75	1/2	1741.57	1/2	2000.38	1/2	2259.20	1/2	2518.01	1/2	2776.83	1/2	3035.65	1/2	3294.46	1/2	3539.89
3/4	49.37	3/4	229.29	3/4	454.29	3/4	711.69	3/4	970.51	3/4	1229.33	3/4	1488.14	3/4	1746.96	3/4	2005.77	3/4	2264.59	3/4	2523.41	3/4	2782.22	3/4	3041.04	3/4	3299.85	3/4	3542.70
4	52.76	4	233.63	4	459.57	4	717.09	4	975.90	4	1234.72	4	1493.53	4	1752.35	4	2011.17	4	2269.98	4	2528.80	4	2787.61	4	3046.43	4	3305.25	4	3545.52
1/4	56.16	1/4	237.96	1/4	464.84	1/4	722.48	1/4	981.29	1/4	1240.11	1/4	1498.93	1/4	1757.74	1/4	2016.56	1/4	2275.37	1/4	2534.19	1/4	2793.01	1/4	3051.82	1/4	3310.64	1/4	3547.31
1/2	59.55	1/2	242.30	1/2	470.12	1/2	727.87	1/2	986.69	1/2	1245.50	1/2	1504.32	1/2	1763.13	1/2	2021.95	1/2	2280.77	1/2	2539.58	1/2	2798.40	1/2	3057.21	1/2	3316.03	1/2	3549.09
3/4	62.95	3/4	246.63	3/4	475.39	3/4	733.26	3/4	992.08	3/4	1250.89	3/4	1509.71	3/4	1768.53	3/4	2027.34	3/4	2286.16	3/4	2544.97	3/4	2803.79	3/4	3062.61	3/4	3321.42	3/4	3550.88
5	66.35	5	250.97	5	480.66	5	738.65	5	997.47	5	1256.29	5	1515.10	5	1773.92	5	2032.73	5	2291.55	5	2550.37	5	2809.18	5	3068.00	5	3326.81	5	3552.67
1/4	69.74	1/4	255.30	1/4	485.94	1/4	744.05	1/4	1002.86	1/4	1261.68	1/4	1520.49	1/4	1779.31	1/4	2038.13	1/4	2296.94	1/4	2555.76	1/4	2814.57	1/4	3073.39	1/4	3332.21	1/4	3553.42
1/2	73.14	1/2	259.64	1/2	491.21	1/2	749.44	1/2	1008.25	1/2	1267.07	1/2	1525.89	1/2	1784.70	1/2	2043.52	1/2	2302.33	1/2	2561.15	1/2	2819.97	1/2	3078.78	1/2	3337.60	1/2	3554.18
3/4	76.53	3/4	263.97	3/4	496.49	3/4	754.83	3/4	1013.65	3/4	1272.46	3/4	1531.28	3/4	1790.09	3/4	2048.91	3/4	2307.73	3/4	2566.54	3/4	2825.36	3/4	3084.17	3/4	3342.99	3/4	3554.93
6	79.93	6	268.31	6	501.76	6	760.22	6	1019.04	6	1277.85	6	1536.67	6	1795.49	6	2054.30	6	2313.12	6	2571.93	6	2830.75	6	3089.57	6	3348.38	6	3555.69
1/4	83.33	1/4	272.64	1/4	507.03	1/4	765.61	1/4	1024.43	1/4	1283.25	1/4	1542.06	1/4	1800.88	1/4	2059.69	1/4	2318.51	1/4	2577.33	1/4	2836.14	1/4	3094.96	1/4	3353.77	1/4	3555.80
1/2	86.72	1/2	276.98	1/2	512.31	1/2	771.01	1/2	1029.82	1/2	1288.64	1/2	1547.45	1/2	1806.27	1/2	2065.09	1/2	2323.90	1/2	2582.72	1/2	2841.53	1/2	3100.35	1/2	3359.17	1/2	3556.00
3/4	90.12	3/4	281.31	3/4	517.58	3/4	776.40	3/4	1035.21	3/4	1294.03	3/4	1552.85	3/4	1811.66	3/4	2070.48	3/4	2329.29	3/4	2588.11	3/4	2846.93	3/4	3105.74	3/4	3364.56	3/4	3556.21
7	93.75	7	285.88	7	522.97	7	781.79	7	1040.61	7	1299.42	7	1558.24	7	1817.05	7	2075.87	7	2334.69	7	2593.50	7	2852.32	7	3111.13	7	3369.95	7	3556.42
1/4	97.38	1/4	290.45	1/4	528.37	1/4	787.18	1/4	1046.00	1/4	1304.81	1/4	1563.63	1/4	1822.45	1/4	2081.26	1/4	2340.08	1/4	2598.89	1/4	2857.71	1/4	3116.53	1/4	3375.34	1/4	3556.63
1/2	101.01	1/2	295.02	1/2	533.76	1/2	792.57	1/2	1051.39	1/2	1310.21	1/2	1569.02	1/2	1827.84	1/2	2086.65	1/2	2345.47	1/2	2604.29	1/2	2863.10	1/2	3121.92	1/2	3380.73	1/2	3556.84
3/4	104.64	3/4	299.59	3/4	539.15	3/4	797.97	3/4	1056.78	3/4	1315.60	3/4	1574.41	3/4	1833.23	3/4	2092.05	3/4	2350.86	3/4	2609.68	3/4	2868.49	3/4	3127.31	3/4	3386.13	3/4	3557.05
8	108.27	8	304.16	8	544.54	8	803.36	8	1062.17	8	1320.99	8	1579.81	8	1838.62	8	2097.44	8	2356.25	8	2615.07	8	2873.89	8	3132.70	8	3391.52	8	3557.26
1/4	111.90	1/4	308.73	1/4	549.93	1/4	808.75	1/4	1067.57	1/4	1326.38	1/4	1585.20	1/4	1844.01	1/4	2102.83	1/4	2361.65	1/4	2620.46	1/4	2879.28	1/4	3138.09	1/4	3396.91	1/4	3557.47
1/2	115.54	1/2	313.30	1/2	555.33	1/2	814.14	1/2	1072.96	1/2	1331.77	1/2	1590.59	1/2	1849.41	1/2	2108.22	1/2	2367.04	1/2	2625.85	1/2	2884.67	1/2	3143.49	1/2	3402.30	1/2	3557.68
3/4	119.17	3/4	317.87	3/4	560.72	3/4	819.53	3/4	1078.35	3/4	1337.17	3/4	1595.98	3/4	1854.80	3/4	2113.61	3/4	2372.43	3/4	2631.25	3/4	2890.06	3/4	3148.88	3/4	3407.69	3/4	3557.89
9	122.80	9	322.44	9	566.11	9	824.93	9	1083.74	9	1342.56	9	1601.37	9	1860.19	9	2119.01	9	2377.82	9	2636.64	9	2895.45	9	3154.27	9	3413.09	9	3558.10
1/4	126.43	1/4	327.01	1/4	571.50	1/4	830.32	1/4	1089.13	1/4	1347.95	1/4	1606.77	1/4	1865.58	1/4	2124.40	1/4	2383.21	1/4	2642.03	1/4	2900.85	1/4	3159.66	1/4	3418.48	1/4	3558.31
1/2	130.06	1/2	331.58	1/2	576.89	1/2	835.71	1/2	1094.53	1/2																			

MAGNOLIA MARINE - BARGE "MM 110"

INNAGE TABLE

2 PORT

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

Table with columns for height (0 to 14 FEET) and sub-columns for gauge types (IN., 1/4, 1/2, 3/4). Each cell contains a numerical value representing capacity or measurement.

CAPACITY IN: 42-GALLON BARRELS

GAUGE HEIGHT: 16'-8 5/8" (RIM OF HATCH OPPOSITE HINGE LOCATED NEAR CENTER OF TANK)

*CAPACITY BELOW STRIKE POINT

MAGNOLIA MARINE - BARGE "MM 110"

INNAGE TABLE

2 STAR

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

0 FEET		1 FEET		2 FEET		3 FEET		4 FEET		5 FEET		6 FEET		7 FEET		8 FEET		9 FEET		10 FEET		11 FEET		12 FEET		13 FEET		14 FEET			
IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.	
0	10.09	0	272.74	0	556.71	0	840.67	0	1124.64	0	1408.61	0	1692.58	0	1976.55	0	2260.51	0	2544.48	0	2828.45	0	3112.42	0	3396.39	0	3680.35	0	3964.32		
1/4	13.05	1/4	278.65	1/4	562.62	1/4	846.59	1/4	1130.56	1/4	1414.53	1/4	1698.49	1/4	1982.46	1/4	2266.43	1/4	2550.40	1/4	2834.37	1/4	3118.33	1/4	3402.30	1/4	3686.27	1/4	3970.24		
1/2	16.00	1/2	284.57	1/2	568.54	1/2	852.51	1/2	1136.47	1/2	1420.44	1/2	1704.41	1/2	1988.38	1/2	2272.35	1/2	2556.31	1/2	2840.28	1/2	3124.25	1/2	3408.22	1/2	3692.19	1/2	3976.15		
3/4	18.96	3/4	290.49	3/4	574.45	3/4	858.42	3/4	1142.39	3/4	1426.36	3/4	1710.33	3/4	1994.29	3/4	2278.26	3/4	2562.23	3/4	2846.20	3/4	3130.17	3/4	3414.13	3/4	3698.10	3/4	3982.07		
1	21.91	1	296.40	1	580.37	1	864.34	1	1148.31	1	1432.27	1	1716.24	1	2000.21	1	2284.18	1	2568.15	1	2852.11	1	3136.08	1	3420.05	1	3704.02	1	3987.99		
1/4	26.05	1/4	302.32	1/4	586.29	1/4	870.25	1/4	1154.22	1/4	1438.19	1/4	1722.16	1/4	2006.13	1/4	2290.09	1/4	2574.06	1/4	2858.03	1/4	3142.00	1/4	3425.97	1/4	3709.93	1/4	3993.90		
1/2	30.19	1/2	308.23	1/2	592.20	1/2	876.17	1/2	1160.14	1/2	1444.11	1/2	1728.07	1/2	2012.04	1/2	2296.01	1/2	2579.98	1/2	2863.95	1/2	3147.91	1/2	3431.88	1/2	3715.85	1/2	3999.25		
3/4	34.33	3/4	314.15	3/4	598.12	3/4	882.09	3/4	1166.05	3/4	1450.02	3/4	1733.99	3/4	2017.96	3/4	2301.93	3/4	2585.89	3/4	2869.86	3/4	3153.83	3/4	3437.80	3/4	3721.77	3/4	4004.61		
2	38.47	2	320.07	2	604.03	2	888.00	2	1171.97	2	1455.94	2	1739.91	2	2023.87	2	2307.84	2	2591.81	2	2875.78	2	3159.75	2	3443.71	2	3727.68	2	4009.96		
1/4	43.79	1/4	325.98	1/4	609.95	1/4	893.92	1/4	1177.89	1/4	1461.85	1/4	1745.82	1/4	2029.79	1/4	2313.76	1/4	2597.73	1/4	2881.69	1/4	3165.66	1/4	3449.63	1/4	3733.60	1/4	4015.31		
1/2	49.11	1/2	331.90	1/2	615.87	1/2	899.83	1/2	1183.80	1/2	1467.77	1/2	1751.74	1/2	2035.71	1/2	2319.67	1/2	2603.64	1/2	2887.61	1/2	3171.58	1/2	3455.55	1/2	3739.51	1/2	4019.53		
3/4	54.44	3/4	337.81	3/4	621.78	3/4	905.75	3/4	1189.72	3/4	1473.69	3/4	1757.65	3/4	2041.62	3/4	2325.59	3/4	2609.56	3/4	2893.53	3/4	3177.49	3/4	3461.46	3/4	3745.43	3/4	4023.76		
3	59.76	3	343.73	3	627.70	3	911.67	3	1195.63	3	1479.60	3	1763.57	3	2047.54	3	2331.51	3	2615.47	3	2899.44	3	3183.41	3	3467.38	3	3751.35	3	4027.98		
1/4	65.68	1/4	349.65	1/4	633.61	1/4	917.58	1/4	1201.55	1/4	1485.52	1/4	1769.49	1/4	2053.45	1/4	2337.42	1/4	2621.39	1/4	2905.36	1/4	3189.33	1/4	3473.29	1/4	3757.26	1/4	4032.20		
1/2	71.59	1/2	355.56	1/2	639.53	1/2	923.50	1/2	1207.47	1/2	1491.43	1/2	1775.40	1/2	2059.37	1/2	2343.34	1/2	2627.31	1/2	2911.27	1/2	3195.24	1/2	3479.21	1/2	3763.18	1/2	4035.30		
3/4	77.51	3/4	361.48	3/4	645.45	3/4	929.41	3/4	1213.38	3/4	1497.35	3/4	1781.32	3/4	2065.29	3/4	2349.25	3/4	2633.22	3/4	2917.19	3/4	3201.16	3/4	3485.13	3/4	3769.09	3/4	4038.39		
4	83.43	4	367.39	4	651.36	4	935.33	4	1219.30	4	1503.27	4	1787.23	4	2071.20	4	2355.17	4	2639.14	4	2923.11	4	3207.07	4	3491.04	4	3775.01	4	4041.49		
1/4	89.34	1/4	373.31	1/4	657.28	1/4	941.25	1/4	1225.21	1/4	1509.18	1/4	1793.15	1/4	2077.12	1/4	2361.09	1/4	2645.05	1/4	2929.02	1/4	3212.99	1/4	3496.96	1/4	3780.93	1/4	4044.58		
1/2	95.26	1/2	379.23	1/2	663.19	1/2	947.16	1/2	1231.13	1/2	1515.10	1/2	1799.07	1/2	2083.03	1/2	2367.00	1/2	2650.97	1/2	2934.94	1/2	3218.91	1/2	3502.87	1/2	3786.84	1/2	4046.55		
3/4	101.17	3/4	385.14	3/4	669.11	3/4	953.08	3/4	1237.05	3/4	1521.01	3/4	1804.98	3/4	2088.95	3/4	2372.92	3/4	2656.89	3/4	2940.85	3/4	3224.82	3/4	3508.79	3/4	3792.76	3/4	4048.52		
5	107.09	5	391.06	5	675.03	5	958.99	5	1242.96	5	1526.93	5	1810.90	5	2094.87	5	2378.83	5	2662.80	5	2946.77	5	3230.74	5	3514.71	5	3798.67	5	4050.48		
1/4	113.01	1/4	396.97	1/4	680.94	1/4	964.91	1/4	1248.88	1/4	1532.85	1/4	1816.81	1/4	2100.78	1/4	2384.75	1/4	2668.72	1/4	2952.69	1/4	3236.65	1/4	3520.62	1/4	3804.59	1/4	4052.45		
1/2	118.92	1/2	402.89	1/2	686.86	1/2	970.83	1/2	1254.79	1/2	1538.76	1/2	1822.73	1/2	2106.70	1/2	2390.67	1/2	2674.63	1/2	2958.60	1/2	3242.57	1/2	3526.54	1/2	3810.51	1/2	4053.29		
3/4	124.84	3/4	408.81	3/4	692.77	3/4	976.74	3/4	1260.71	3/4	1544.68	3/4	1828.65	3/4	2112.61	3/4	2396.58	3/4	2680.55	3/4	2964.52	3/4	3248.49	3/4	3532.45	3/4	3816.42	3/4	4054.13		
6	130.75	6	414.72	6	698.69	6	982.66	6	1266.63	6	1550.59	6	1834.56	6	2118.53	6	2402.50	6	2686.47	6	2970.43	6	3254.40	6	3538.37	6	3822.34	6	4054.96		
1/4	136.67	1/4	420.64	1/4	704.61	1/4	988.57	1/4	1272.54	1/4	1556.51	1/4	1840.48	1/4	2124.45	1/4	2408.41	1/4	2692.38	1/4	2976.35	1/4	3260.32	1/4	3544.29	1/4	3828.25	1/4	4055.80		
1/2	142.59	1/2	426.55	1/2	710.52	1/2	994.49	1/2	1278.46	1/2	1562.43	1/2	1846.39	1/2	2130.36	1/2	2414.33	1/2	2698.30	1/2	2982.27	1/2	3266.23	1/2	3550.20	1/2	3834.17	1/2	4055.94		
3/4	148.50	3/4	432.47	3/4	716.44	3/4	1000.41	3/4	1284.37	3/4	1568.34	3/4	1852.31	3/4	2136.28	3/4	2420.25	3/4	2704.21	3/4	2988.18	3/4	3272.15	3/4	3556.12	3/4	3840.09	3/4			
7	154.42	7	438.39	7	722.35	7	1006.32	7	1290.29	7	1574.26	7	1858.23	7	2142.19	7	2426.16	7	2710.13	7	2994.10	7	3278.07	7	3562.03	7	3846.00	7			
1/4	160.33	1/4	444.30	1/4	728.27	1/4	1012.24	1/4	1296.21	1/4	1580.17	1/4	1864.14	1/4	2148.11	1/4	2432.08	1/4	2716.05	1/4	3000.01	1/4	3283.98	1/4	3567.95	1/4	3851.92	1/4			
1/2	166.25	1/2	450.22	1/2	734.19	1/2	1018.15	1/2	1302.12	1/2	1586.09	1/2	1870.06	1/2	2154.03	1/2	2437.99	1/2	2721.96	1/2	3005.93	1/2	3289.90	1/2	3573.87	1/2	3857.83	1/2			
3/4	172.17	3/4	456.13	3/4	740.10	3/4	1024.07	3/4	1308.04	3/4	1592.01	3/4	1875.97	3/4	2159.94	3/4	2443.91	3/4	2727.88	3/4	3011.85	3/4	3295.81	3/4	3579.78	3/4	3863.75	3/4			
8	178.08	8	462.05	8	746.02	8	1029.99	8	1313.95	8	1597.92	8	1881.89	8	2165.86	8	2449.83	8	2733.79	8	3017.76	8	3301.73	8	3585.70	8	3869.67	8			
1/4	184.00	1/4	467.97	1/4	751.93	1/4	1035.90	1/4	1319.87	1/4	1603.84	1/4	1887.81	1/4	2171.77	1/4	2455.74	1/4	2739.71	1/4	3023.68	1/4	3307.65	1/4	3591.61	1/4	3875.58	1/4			
1/2	189.91	1/2	473.88	1/2	757.85	1/2	1041.82	1/2	1325.79	1/2	1609.75	1/2	1893.72	1/2	2177.69	1/2	2461.66	1/2	2745.63	1/2	3029.59	1/2	3313.56	1/2	3597.53	1/2	3881.50	1/2			
3/4	195.83	3/4	479.80	3/4	763.77	3/4	1047.73	3/4	1331.70	3/4	1615.67	3/4	1899.64	3/4	2183.61	3/4	2467.57	3/4	2751.54	3/4	3035.51	3/4	3319.48	3/4	3603.45	3/4	3887.41	3/4			
9	201.75	9	485.71	9	769.68	9	1053.65	9	1337.62	9	1621.59	9	1905.55	9	2189.52	9	2473.49	9	2757.46	9	3041.43	9	3325.39	9	3609.36	9	3893.33	9			
1/4	207.66	1/4	491.63	1/4	775.60	1/4	1059.57	1/4	1343.53	1/4	1627.50	1/4	1911.47	1/4	2195.44	1/4	2479.41	1/4	2763.37	1/4	3047.34	1/4	3331.31	1/4	3615.28	1/4	3899.25	1/4			
1/2	213.58	1/2	497.55	1/2	781.51	1/2	1065.48	1/2	1349.45	1/2	1633.42	1/2	1917.39	1/2	2201.35	1/2	2485.32	1/2	2769.29	1/2	3053.26	1/2	3337.23	1/2	3621.19	1/2	3905.16	1/2			
3/4	219.49	3/4	503.46	3/4	787.43	3/4	1071.40	3/4	1355.37	3/4	1639.33	3/4	1923.30	3/4	2207.27	3/4	2491.24	3/4	2775.21	3/4	3059.17	3/4	3343.14	3/4	3627.11	3/4	3911.08	3/4			
10	225.41	10	509.3																												

MAGNOLIA MARINE - BARGE "MM 110"

INNAGE TABLE

3 PORT

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

0 FEET		1 FEET		2 FEET		3 FEET		4 FEET		5 FEET		6 FEET		7 FEET		8 FEET		9 FEET		10 FEET		11 FEET		12 FEET		13 FEET		14 FEET	
IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.	
0	13.08	0	279.35	0	564.04	0	848.73	0	1133.41	0	1418.10	0	1702.79	0	1987.48	0	2272.17	0	2556.85	0	2841.54	0	3126.23	0	3410.92	0	3695.61	0	3980.29
1/4	16.04	1/4	285.28	1/4	569.97	1/4	854.66	1/4	1139.34	1/4	1424.03	1/4	1708.72	1/4	1993.41	1/4	2278.10	1/4	2562.78	1/4	2847.47	1/4	3132.16	1/4	3416.85	1/4	3701.54	1/4	3986.22
1/2	19.00	1/2	291.21	1/2	575.90	1/2	860.59	1/2	1145.28	1/2	1429.96	1/2	1714.65	1/2	1999.34	1/2	2284.03	1/2	2568.72	1/2	2853.40	1/2	3138.09	1/2	3422.78	1/2	3707.47	1/2	3992.16
3/4	21.96	3/4	297.14	3/4	581.83	3/4	866.52	3/4	1151.21	3/4	1435.89	3/4	1720.58	3/4	2005.27	3/4	2289.96	3/4	2574.65	3/4	2859.33	3/4	3144.02	3/4	3428.71	3/4	3713.40	3/4	3998.09
1	26.11	1	303.07	1	587.76	1	872.45	1	1157.14	1	1441.83	1	1726.51	1	2011.20	1	2295.89	1	2580.58	1	2865.27	1	3149.95	1	3434.64	1	3719.33	1	4004.02
1/4	30.26	1/4	309.00	1/4	593.69	1/4	878.38	1/4	1163.07	1/4	1447.76	1/4	1732.44	1/4	2017.13	1/4	2301.82	1/4	2586.51	1/4	2871.20	1/4	3155.88	1/4	3440.57	1/4	3725.26	1/4	4009.38
1/2	34.41	1/2	314.94	1/2	599.62	1/2	884.31	1/2	1169.00	1/2	1453.69	1/2	1738.38	1/2	2023.06	1/2	2307.75	1/2	2592.44	1/2	2877.13	1/2	3161.82	1/2	3446.50	1/2	3731.19	1/2	4014.75
3/4	38.55	3/4	320.87	3/4	605.55	3/4	890.24	3/4	1174.93	3/4	1459.62	3/4	1744.31	3/4	2028.99	3/4	2313.68	3/4	2598.37	3/4	2883.06	3/4	3167.75	3/4	3452.43	3/4	3737.12	3/4	4020.11
2	43.89	2	326.80	2	611.49	2	896.17	2	1180.86	2	1465.55	2	1750.24	2	2034.93	2	2319.61	2	2604.30	2	2888.99	2	3173.68	2	3458.37	2	3743.05	2	4025.48
1/4	49.23	1/4	332.73	1/4	617.42	1/4	902.10	1/4	1186.79	1/4	1471.48	1/4	1756.17	1/4	2040.86	1/4	2325.54	1/4	2610.23	1/4	2894.92	1/4	3179.61	1/4	3464.30	1/4	3748.98	1/4	4029.71
1/2	54.57	1/2	338.66	1/2	623.35	1/2	908.04	1/2	1192.72	1/2	1477.41	1/2	1762.10	1/2	2046.79	1/2	2331.48	1/2	2616.16	1/2	2900.85	1/2	3185.54	1/2	3470.23	1/2	3754.92	1/2	4033.95
3/4	59.90	3/4	344.59	3/4	629.28	3/4	913.97	3/4	1198.65	3/4	1483.34	3/4	1768.03	3/4	2052.72	3/4	2337.41	3/4	2622.09	3/4	2906.78	3/4	3191.47	3/4	3476.16	3/4	3760.85	3/4	4038.18
3	65.83	3	350.52	3	635.21	3	919.90	3	1204.59	3	1489.27	3	1773.96	3	2058.65	3	2343.34	3	2628.03	3	2912.71	3	3197.40	3	3482.09	3	3766.78	3	4042.41
1/4	71.76	1/4	356.45	1/4	641.14	1/4	925.83	1/4	1210.52	1/4	1495.20	1/4	1779.89	1/4	2064.58	1/4	2349.27	1/4	2633.96	1/4	2918.64	1/4	3203.33	1/4	3488.02	1/4	3772.71	1/4	4045.52
1/2	77.70	1/2	362.38	1/2	647.07	1/2	931.76	1/2	1216.45	1/2	1501.14	1/2	1785.82	1/2	2070.51	1/2	2355.20	1/2	2639.89	1/2	2924.58	1/2	3209.26	1/2	3493.95	1/2	3778.64	1/2	4048.62
3/4	83.63	3/4	368.31	3/4	653.00	3/4	937.69	3/4	1222.38	3/4	1507.07	3/4	1791.75	3/4	2076.44	3/4	2361.13	3/4	2645.82	3/4	2930.51	3/4	3215.19	3/4	3499.88	3/4	3784.57	3/4	4051.72
4	89.56	4	374.25	4	658.93	4	943.62	4	1228.31	4	1513.00	4	1797.69	4	2082.37	4	2367.06	4	2651.75	4	2936.44	4	3221.13	4	3505.81	4	3790.50	4	4054.83
1/4	95.49	1/4	380.18	1/4	664.86	1/4	949.55	1/4	1234.24	1/4	1518.93	1/4	1803.62	1/4	2088.30	1/4	2372.99	1/4	2657.68	1/4	2942.37	1/4	3227.06	1/4	3511.74	1/4	3796.43	1/4	4056.80
1/2	101.42	1/2	386.11	1/2	670.80	1/2	955.48	1/2	1240.17	1/2	1524.86	1/2	1809.55	1/2	2094.24	1/2	2378.92	1/2	2663.61	1/2	2948.30	1/2	3232.99	1/2	3517.68	1/2	3802.36	1/2	4058.77
3/4	107.35	3/4	392.04	3/4	676.73	3/4	961.41	3/4	1246.10	3/4	1530.79	3/4	1815.48	3/4	2100.17	3/4	2384.85	3/4	2669.54	3/4	2954.23	3/4	3238.92	3/4	3523.61	3/4	3808.29	3/4	4060.74
5	113.28	5	397.97	5	682.66	5	967.35	5	1252.03	5	1536.72	5	1821.41	5	2106.10	5	2390.79	5	2675.47	5	2960.16	5	3244.85	5	3529.54	5	3814.23	5	4062.71
1/4	119.21	1/4	403.90	1/4	688.59	1/4	973.28	1/4	1257.96	1/4	1542.65	1/4	1827.34	1/4	2112.03	1/4	2396.72	1/4	2681.40	1/4	2966.09	1/4	3250.78	1/4	3535.47	1/4	3820.16	1/4	4063.55
1/2	125.14	1/2	409.83	1/2	694.52	1/2	979.21	1/2	1263.90	1/2	1548.58	1/2	1833.27	1/2	2117.96	1/2	2402.65	1/2	2687.34	1/2	2972.02	1/2	3256.71	1/2	3541.40	1/2	3826.09	1/2	4064.39
3/4	131.07	3/4	415.76	3/4	700.45	3/4	985.14	3/4	1269.83	3/4	1554.51	3/4	1839.20	3/4	2123.89	3/4	2408.58	3/4	2693.27	3/4	2977.95	3/4	3262.64	3/4	3547.33	3/4	3832.02	3/4	4065.23
6	137.01	6	421.69	6	706.38	6	991.07	6	1275.76	6	1560.45	6	1845.13	6	2129.82	6	2414.51	6	2699.20	6	2983.89	6	3268.57	6	3553.26	6	3837.95	6	4066.07
1/4	142.94	1/4	427.62	1/4	712.31	1/4	997.00	1/4	1281.69	1/4	1566.38	1/4	1851.06	1/4	2135.75	1/4	2420.44	1/4	2705.13	1/4	2989.82	1/4	3274.50	1/4	3559.19	1/4	3843.88	1/4	4066.21
1/2	148.87	1/2	433.56	1/2	718.24	1/2	1002.93	1/2	1287.62	1/2	1572.31	1/2	1857.00	1/2	2141.68	1/2	2426.37	1/2	2711.06	1/2	2995.75	1/2	3280.44	1/2	3565.12	1/2	3849.81	1/2	
3/4	154.80	3/4	439.49	3/4	724.17	3/4	1008.86	3/4	1293.55	3/4	1578.24	3/4	1862.93	3/4	2147.61	3/4	2432.30	3/4	2716.99	3/4	3001.68	3/4	3286.37	3/4	3571.05	3/4	3855.74	3/4	
7	160.73	7	445.42	7	730.11	7	1014.79	7	1299.48	7	1584.17	7	1868.86	7	2153.55	7	2438.23	7	2722.92	7	3007.61	7	3292.30	7	3577.99	7	3861.67	7	
1/4	166.66	1/4	451.35	1/4	736.04	1/4	1020.72	1/4	1305.41	1/4	1590.10	1/4	1874.79	1/4	2159.48	1/4	2444.16	1/4	2728.85	1/4	3013.54	1/4	3298.23	1/4	3583.92	1/4	3867.60	1/4	
1/2	172.59	1/2	457.28	1/2	741.97	1/2	1026.66	1/2	1311.34	1/2	1596.03	1/2	1880.72	1/2	2165.41	1/2	2450.10	1/2	2734.78	1/2	3019.47	1/2	3304.16	1/2	3588.85	1/2	3873.54	1/2	
3/4	178.52	3/4	463.21	3/4	747.90	3/4	1032.59	3/4	1317.27	3/4	1601.96	3/4	1886.65	3/4	2171.34	3/4	2456.03	3/4	2740.71	3/4	3025.40	3/4	3310.09	3/4	3594.78	3/4	3879.47	3/4	
8	184.45	8	469.14	8	753.83	8	1038.52	8	1323.21	8	1607.89	8	1892.58	8	2177.27	8	2461.96	8	2746.65	8	3031.33	8	3316.02	8	3600.71	8	3885.40	8	
1/4	190.38	1/4	475.07	1/4	759.76	1/4	1044.45	1/4	1329.14	1/4	1613.82	1/4	1898.51	1/4	2183.20	1/4	2467.89	1/4	2752.58	1/4	3037.26	1/4	3321.95	1/4	3606.64	1/4	3891.33	1/4	
1/2	196.32	1/2	481.00	1/2	765.69	1/2	1050.38	1/2	1335.07	1/2	1619.76	1/2	1904.44	1/2	2189.13	1/2	2473.82	1/2	2758.51	1/2	3043.20	1/2	3327.88	1/2	3612.57	1/2	3897.26	1/2	
3/4	202.25	3/4	486.93	3/4	771.62	3/4	1056.31	3/4	1341.00	3/4	1625.69	3/4	1910.37	3/4	2195.06	3/4	2479.75	3/4	2764.44	3/4	3049.13	3/4	3333.81	3/4	3618.50	3/4	3903.19	3/4	
9	208.18	9	492.87	9	777.55	9	1062.24	9	1346.93	9	1631.62	9	1916.31	9	2200.99	9	2485.68	9	2770.37	9	3055.06	9	3339.75	9	3624.43	9	3909.12	9	
1/4	214.11	1/4	498.80	1/4	783.48	1/4	1068.17	1/4	1352.86	1/4	1637.55	1/4	1922.24	1/4	2206.92	1/4	2491.61	1/4	2776.30	1/4	3060.99	1/4	3345.68	1/4	3630.36	1/4	3915.05	1/4	
1/2	220.04	1/2	504.73	1/2	789.42	1/2	1074.10	1/2	1358.79	1/2	1643.48	1/2	1928.17	1/2	2212.86	1/2	2497.54	1/2	2782.23	1/2	3066.92	1/2	3351.61	1/2	3636.30	1/2	3920.98	1/2	
3/4	225.97	3/4	510.66	3/4	795.35	3/4	1080.03	3/4	1364.72	3/4	1649.41	3/4	1934.10	3/4	2218.79	3/4	2503.47	3/4	2788.16	3/4	3072.85	3/4	3357.54	3/4	3642.23	3/4	3926.91	3/4	
10	231.90	10	516.59	10	8																								

MAGNOLIA MARINE - BARGE "MM 110"

INNAGE TABLE

3 STAR

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

0 FEET		1 FEET		2 FEET		3 FEET		4 FEET		5 FEET		6 FEET		7 FEET		8 FEET		9 FEET		10 FEET		11 FEET		12 FEET		13 FEET		14 FEET	
IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.	
0	8.34	0	267.49	0	552.18	0	836.86	0	1121.55	0	1406.24	0	1690.93	0	1975.62	0	2260.30	0	2544.99	0	2829.68	0	3114.37	0	3399.06	0	3683.74	0	3968.43
1/4	10.11	1/4	273.42	1/4	558.11	1/4	842.79	1/4	1127.48	1/4	1412.17	1/4	1696.86	1/4	1981.55	1/4	2266.23	1/4	2550.92	1/4	2835.61	1/4	3120.30	1/4	3404.99	1/4	3689.67	1/4	3974.36
1/2	13.08	1/2	279.35	1/2	564.04	1/2	848.73	1/2	1133.41	1/2	1418.10	1/2	1702.79	1/2	1987.48	1/2	2272.17	1/2	2556.85	1/2	2841.54	1/2	3126.23	1/2	3410.92	1/2	3695.61	1/2	3980.29
3/4	16.04	3/4	285.28	3/4	569.97	3/4	854.66	3/4	1139.34	3/4	1424.03	3/4	1708.72	3/4	1993.41	3/4	2278.10	3/4	2562.78	3/4	2847.47	3/4	3132.16	3/4	3416.85	3/4	3701.54	3/4	3986.22
1	19.00	1	291.21	1	575.90	1	860.59	1	1145.28	1	1429.96	1	1714.65	1	1999.34	1	2284.03	1	2568.72	1	2853.40	1	3138.09	1	3422.78	1	3707.47	1	3992.16
1/4	21.96	1/4	297.14	1/4	581.83	1/4	866.52	1/4	1151.21	1/4	1435.89	1/4	1720.58	1/4	2005.27	1/4	2289.96	1/4	2574.65	1/4	2859.33	1/4	3144.02	1/4	3428.71	1/4	3713.40	1/4	3998.09
1/2	26.11	1/2	303.07	1/2	587.76	1/2	872.45	1/2	1157.14	1/2	1441.83	1/2	1726.51	1/2	2011.20	1/2	2295.89	1/2	2580.58	1/2	2865.27	1/2	3149.95	1/2	3434.64	1/2	3719.33	1/2	4004.02
3/4	30.26	3/4	309.00	3/4	593.69	3/4	878.38	3/4	1163.07	3/4	1447.76	3/4	1732.44	3/4	2017.13	3/4	2301.82	3/4	2586.51	3/4	2871.20	3/4	3155.88	3/4	3440.57	3/4	3725.26	3/4	4009.38
2	34.41	2	314.94	2	599.62	2	884.31	2	1169.00	2	1453.69	2	1738.38	2	2023.06	2	2307.75	2	2592.44	2	2877.13	2	3161.82	2	3446.50	2	3731.19	2	4014.75
1/4	38.55	1/4	320.87	1/4	605.55	1/4	890.24	1/4	1174.93	1/4	1459.62	1/4	1744.31	1/4	2028.99	1/4	2313.68	1/4	2598.37	1/4	2883.06	1/4	3167.75	1/4	3452.43	1/4	3737.12	1/4	4020.11
1/2	43.89	1/2	326.80	1/2	611.49	1/2	896.17	1/2	1180.86	1/2	1465.55	1/2	1750.24	1/2	2034.93	1/2	2319.61	1/2	2604.30	1/2	2888.99	1/2	3173.68	1/2	3458.37	1/2	3743.05	1/2	4025.48
3/4	49.23	3/4	332.73	3/4	617.42	3/4	902.10	3/4	1186.79	3/4	1471.48	3/4	1756.17	3/4	2040.86	3/4	2325.54	3/4	2610.23	3/4	2894.92	3/4	3179.61	3/4	3464.30	3/4	3748.98	3/4	4029.71
3	54.57	3	338.66	3	623.35	3	908.04	3	1192.72	3	1477.41	3	1762.10	3	2046.79	3	2331.48	3	2616.16	3	2900.85	3	3185.54	3	3470.23	3	3754.92	3	4033.95
1/4	59.90	1/4	344.59	1/4	629.28	1/4	913.97	1/4	1198.65	1/4	1483.34	1/4	1768.03	1/4	2052.72	1/4	2337.41	1/4	2622.09	1/4	2906.78	1/4	3191.47	1/4	3476.16	1/4	3760.85	1/4	4038.18
1/2	65.83	1/2	350.52	1/2	635.21	1/2	919.90	1/2	1204.59	1/2	1489.27	1/2	1773.96	1/2	2058.65	1/2	2343.34	1/2	2628.03	1/2	2912.71	1/2	3197.40	1/2	3482.09	1/2	3766.78	1/2	4042.41
3/4	71.76	3/4	356.45	3/4	641.14	3/4	925.83	3/4	1210.52	3/4	1495.20	3/4	1779.89	3/4	2064.58	3/4	2349.27	3/4	2633.96	3/4	2918.64	3/4	3203.33	3/4	3488.02	3/4	3772.71	3/4	4045.52
4	77.70	4	362.38	4	647.07	4	931.76	4	1216.45	4	1501.14	4	1785.82	4	2070.51	4	2355.20	4	2639.89	4	2924.58	4	3209.26	4	3493.95	4	3778.64	4	4048.62
1/4	83.63	1/4	368.31	1/4	653.00	1/4	937.69	1/4	1222.38	1/4	1507.07	1/4	1791.75	1/4	2076.44	1/4	2361.13	1/4	2645.82	1/4	2930.51	1/4	3215.19	1/4	3499.88	1/4	3784.57	1/4	4051.72
1/2	89.56	1/2	374.25	1/2	658.93	1/2	943.62	1/2	1228.31	1/2	1513.00	1/2	1797.69	1/2	2082.37	1/2	2367.06	1/2	2651.75	1/2	2936.44	1/2	3221.13	1/2	3505.81	1/2	3790.50	1/2	4054.83
3/4	95.49	3/4	380.18	3/4	664.86	3/4	949.55	3/4	1234.24	3/4	1518.93	3/4	1803.62	3/4	2088.30	3/4	2372.99	3/4	2657.68	3/4	2942.37	3/4	3227.06	3/4	3511.74	3/4	3796.43	3/4	4056.80
5	101.42	5	386.11	5	670.80	5	955.48	5	1240.17	5	1524.86	5	1809.55	5	2094.24	5	2378.92	5	2663.61	5	2948.30	5	3232.99	5	3517.68	5	3802.36	5	4058.77
1/4	107.35	1/4	392.04	1/4	676.73	1/4	961.41	1/4	1246.10	1/4	1530.79	1/4	1815.48	1/4	2100.17	1/4	2384.85	1/4	2669.54	1/4	2954.23	1/4	3238.92	1/4	3523.61	1/4	3808.29	1/4	4060.74
1/2	113.28	1/2	397.97	1/2	682.66	1/2	967.35	1/2	1252.03	1/2	1536.72	1/2	1821.41	1/2	2106.10	1/2	2390.79	1/2	2675.47	1/2	2960.16	1/2	3244.85	1/2	3529.54	1/2	3814.23	1/2	4062.71
3/4	119.21	3/4	403.90	3/4	688.59	3/4	973.28	3/4	1257.96	3/4	1542.65	3/4	1827.34	3/4	2112.03	3/4	2396.72	3/4	2681.40	3/4	2966.09	3/4	3250.78	3/4	3535.47	3/4	3820.16	3/4	4063.55
6	125.14	6	409.83	6	694.52	6	979.21	6	1263.90	6	1548.58	6	1833.27	6	2117.96	6	2402.65	6	2687.34	6	2972.02	6	3256.71	6	3541.40	6	3826.09	6	4064.39
1/4	131.07	1/4	415.76	1/4	700.45	1/4	985.14	1/4	1269.83	1/4	1554.51	1/4	1839.20	1/4	2123.89	1/4	2408.58	1/4	2693.27	1/4	2977.95	1/4	3262.64	1/4	3547.33	1/4	3832.02	1/4	4065.23
1/2	137.01	1/2	421.69	1/2	706.38	1/2	991.07	1/2	1275.76	1/2	1560.45	1/2	1845.13	1/2	2129.82	1/2	2414.51	1/2	2699.20	1/2	2983.89	1/2	3268.57	1/2	3553.26	1/2	3837.95	1/2	4066.07
3/4	142.94	3/4	427.62	3/4	712.31	3/4	997.00	3/4	1281.69	3/4	1566.38	3/4	1851.06	3/4	2135.75	3/4	2420.44	3/4	2705.13	3/4	2989.82	3/4	3274.50	3/4	3559.19	3/4	3843.88	3/4	4066.21
7	148.87	7	433.56	7	718.24	7	1002.93	7	1287.62	7	1572.31	7	1857.00	7	2141.68	7	2426.37	7	2711.06	7	2995.75	7	3280.44	7	3565.12	7	3849.81	7	
1/4	154.80	1/4	439.49	1/4	724.17	1/4	1008.86	1/4	1293.55	1/4	1578.24	1/4	1862.93	1/4	2147.61	1/4	2432.30	1/4	2716.99	1/4	3001.68	1/4	3286.37	1/4	3571.05	1/4	3855.74	1/4	
1/2	160.73	1/2	445.42	1/2	730.11	1/2	1014.79	1/2	1299.48	1/2	1584.17	1/2	1868.86	1/2	2153.55	1/2	2438.23	1/2	2722.92	1/2	3007.61	1/2	3292.30	1/2	3576.99	1/2	3861.67	1/2	
3/4	166.66	3/4	451.35	3/4	736.04	3/4	1020.72	3/4	1305.41	3/4	1590.10	3/4	1874.79	3/4	2159.48	3/4	2444.16	3/4	2728.85	3/4	3013.54	3/4	3298.23	3/4	3582.92	3/4	3867.60	3/4	
8	172.59	8	457.28	8	741.97	8	1026.66	8	1311.34	8	1596.03	8	1880.72	8	2165.41	8	2450.10	8	2734.78	8	3019.47	8	3304.16	8	3588.85	8	3873.54	8	
1/4	178.52	1/4	463.21	1/4	747.90	1/4	1032.59	1/4	1317.27	1/4	1601.96	1/4	1886.65	1/4	2171.34	1/4	2456.03	1/4	2740.71	1/4	3025.40	1/4	3310.09	1/4	3594.78	1/4	3879.47	1/4	
1/2	184.45	1/2	469.14	1/2	753.83	1/2	1038.52	1/2	1323.21	1/2	1607.89	1/2	1892.58	1/2	2177.27	1/2	2461.96	1/2	2746.65	1/2	3031.33	1/2	3316.02	1/2	3600.71	1/2	3885.40	1/2	
3/4	190.38	3/4	475.07	3/4	759.76	3/4	1044.45	3/4	1329.14	3/4	1613.82	3/4	1898.51	3/4	2183.20	3/4	2467.89	3/4	2752.58	3/4	3037.26	3/4	3321.95	3/4	3606.64	3/4	3891.33	3/4	
9	196.32	9	481.00	9	765.69	9	1050.38	9	1335.07	9	1619.76	9	1904.44	9	2189.13	9	2473.82	9	2758.51	9	3043.20	9	3327.88	9	3612.57	9	3897.26	9	
1/4	202.25	1/4	486.93	1/4	771.62	1/4	1056.31	1/4	1341.00	1/4	1625.69	1/4	1910.37	1/4	2195.06	1/4	2479.75	1/4	2764.44	1/4	3049.13	1/4	3333.81	1/4	3618.50	1/4	3903.19	1/4	
1/2	208.18	1/2	492.87	1/2	777.55	1/2	1062.24	1/2	1346.9																				

MAGNOLIA MARINE - BARGE "MM 110"

INNAGE TABLE

4 PORT

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

0 FEET		1 FEET		2 FEET		3 FEET		4 FEET		5 FEET		6 FEET		7 FEET		8 FEET		9 FEET		10 FEET		11 FEET		12 FEET		13 FEET		14 FEET	
IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.		IN.	
0	14.51	0	257.94	0	515.37	0	772.79	0	1030.22	0	1286.96	0	1544.13	0	1801.55	0	2058.98	0	2316.40	0	2571.20	0	2725.56	0	2870.38	0	3015.19	0	3160.01
1/4	17.18	1/4	263.31	1/4	520.73	1/4	778.16	1/4	1035.58	1/4	1292.30	1/4	1549.49	1/4	1806.92	1/4	2064.34	1/4	2321.76	1/4	2575.78	1/4	2728.58	1/4	2873.39	1/4	3018.21	1/4	3163.02
1/2	19.85	1/2	268.67	1/2	526.09	1/2	783.52	1/2	1040.94	1/2	1297.65	1/2	1554.85	1/2	1812.28	1/2	2069.70	1/2	2327.13	1/2	2580.36	1/2	2731.59	1/2	2876.41	1/2	3021.23	1/2	3166.04
3/4	23.60	3/4	274.03	3/4	531.46	3/4	788.88	3/4	1046.31	3/4	1302.99	3/4	1560.22	3/4	1817.64	3/4	2075.07	3/4	2332.49	3/4	2584.41	3/4	2734.61	3/4	2879.43	3/4	3024.24	3/4	3169.06
1	27.35	1	279.40	1	536.82	1	794.24	1	1051.67	1	1308.34	1	1565.58	1	1823.00	1	2080.43	1	2337.85	1	2588.46	1	2737.63	1	2882.44	1	3027.26	1	3171.79
1/4	31.10	1/4	284.76	1/4	542.18	1/4	799.61	1/4	1057.03	1/4	1313.68	1/4	1570.94	1/4	1828.37	1/4	2085.79	1/4	2343.22	1/4	2592.51	1/4	2740.64	1/4	2885.46	1/4	3030.28	1/4	3174.52
1/2	34.85	1/2	290.12	1/2	547.55	1/2	804.97	1/2	1062.39	1/2	1319.03	1/2	1576.31	1/2	1833.73	1/2	2091.15	1/2	2348.58	1/2	2596.57	1/2	2743.66	1/2	2888.48	1/2	3033.29	1/2	3177.25
3/4	39.68	3/4	295.49	3/4	552.91	3/4	810.33	3/4	1067.76	3/4	1324.37	3/4	1581.67	3/4	1839.09	3/4	2096.52	3/4	2353.94	3/4	2600.09	3/4	2746.68	3/4	2891.49	3/4	3036.31	3/4	3179.97
2	44.50	2	300.85	2	558.27	2	815.70	2	1073.12	2	1329.72	2	1587.03	2	1844.46	2	2101.88	2	2359.30	2	2603.62	2	2749.70	2	2894.51	2	3039.33	2	3182.13
1/4	49.33	1/4	306.21	1/4	563.64	1/4	821.06	1/4	1078.48	1/4	1335.06	1/4	1592.40	1/4	1849.82	1/4	2107.24	1/4	2364.67	1/4	2607.15	1/4	2752.71	1/4	2897.53	1/4	3042.34	1/4	3184.28
1/2	54.15	1/2	311.57	1/2	569.00	1/2	826.42	1/2	1083.85	1/2	1340.41	1/2	1597.76	1/2	1855.18	1/2	2112.61	1/2	2370.03	1/2	2610.68	1/2	2755.73	1/2	2900.55	1/2	3045.36	1/2	3186.44
3/4	59.51	3/4	316.94	3/4	574.36	3/4	831.79	3/4	1089.19	3/4	1345.75	3/4	1603.12	3/4	1860.55	3/4	2117.97	3/4	2375.39	3/4	2613.81	3/4	2758.75	3/4	2903.56	3/4	3048.38	3/4	3188.59
3	64.88	3	322.30	3	579.72	3	837.15	3	1094.54	3	1351.10	3	1608.48	3	1865.91	3	2123.33	3	2380.76	3	2616.95	3	2761.76	3	2906.58	3	3051.40	3	3190.17
1/4	70.24	1/4	327.66	1/4	585.09	1/4	842.51	1/4	1099.88	1/4	1356.44	1/4	1613.85	1/4	1871.27	1/4	2128.70	1/4	2386.12	1/4	2619.97	1/4	2764.78	1/4	2909.60	1/4	3054.41	1/4	3191.75
1/2	75.60	1/2	333.03	1/2	590.45	1/2	847.87	1/2	1105.23	1/2	1361.79	1/2	1619.21	1/2	1876.63	1/2	2134.06	1/2	2391.48	1/2	2622.98	1/2	2767.80	1/2	2912.61	1/2	3057.43	1/2	3193.33
3/4	80.97	3/4	338.39	3/4	595.81	3/4	853.24	3/4	1110.57	3/4	1367.15	3/4	1624.57	3/4	1882.00	3/4	2139.42	3/4	2396.85	3/4	2626.00	3/4	2770.81	3/4	2915.63	3/4	3060.45	3/4	3194.91
4	86.33	4	343.75	4	601.18	4	858.60	4	1115.92	4	1372.51	4	1629.94	4	1887.36	4	2144.78	4	2402.21	4	2629.02	4	2773.83	4	2918.65	4	3063.46	4	3195.91
1/4	91.69	1/4	349.12	1/4	606.54	1/4	863.96	1/4	1121.26	1/4	1377.88	1/4	1635.30	1/4	1892.72	1/4	2150.15	1/4	2407.57	1/4	2632.03	1/4	2776.85	1/4	2921.66	1/4	3066.48	1/4	3196.91
1/2	97.05	1/2	354.48	1/2	611.90	1/2	869.33	1/2	1126.61	1/2	1383.24	1/2	1640.66	1/2	1898.09	1/2	2155.51	1/2	2412.93	1/2	2635.05	1/2	2779.87	1/2	2924.68	1/2	3069.50	1/2	3197.92
3/4	102.42	3/4	359.84	3/4	617.27	3/4	874.69	3/4	1131.95	3/4	1388.60	3/4	1646.03	3/4	1903.45	3/4	2160.87	3/4	2418.30	3/4	2638.07	3/4	2782.88	3/4	2927.70	3/4	3072.51	3/4	3198.92
5	107.78	5	365.20	5	622.63	5	880.05	5	1137.30	5	1393.96	5	1651.39	5	1908.81	5	2166.24	5	2423.66	5	2641.08	5	2785.90	5	2930.72	5	3075.53	5	3199.35
1/4	113.14	1/4	370.57	1/4	627.99	1/4	885.42	1/4	1142.64	1/4	1399.33	1/4	1656.75	1/4	1914.18	1/4	2171.60	1/4	2429.02	1/4	2644.10	1/4	2788.92	1/4	2933.73	1/4	3078.55	1/4	3199.77
1/2	118.51	1/2	375.93	1/2	633.35	1/2	890.78	1/2	1147.99	1/2	1404.69	1/2	1662.11	1/2	1919.54	1/2	2176.96	1/2	2434.39	1/2	2647.12	1/2	2791.93	1/2	2936.75	1/2	3081.57	1/2	3200.20
3/4	123.87	3/4	381.29	3/4	638.72	3/4	896.14	3/4	1153.33	3/4	1410.05	3/4	1667.48	3/4	1924.90	3/4	2182.33	3/4	2439.75	3/4	2650.14	3/4	2794.95	3/4	2939.77	3/4	3084.58	3/4	3200.63
6	129.23	6	386.66	6	644.08	6	901.50	6	1158.68	6	1415.42	6	1672.84	6	1930.26	6	2187.69	6	2445.11	6	2653.15	6	2797.97	6	2942.78	6	3087.60	6	3200.70
1/4	134.60	1/4	392.02	1/4	649.44	1/4	906.87	1/4	1164.02	1/4	1420.78	1/4	1678.20	1/4	1935.63	1/4	2193.05	1/4	2450.48	1/4	2656.17	1/4	2800.98	1/4	2945.80	1/4	3090.62	1/4	3201.30
1/2	139.96	1/2	397.38	1/2	654.81	1/2	912.23	1/2	1169.37	1/2	1426.14	1/2	1683.57	1/2	1940.99	1/2	2198.41	1/2	2455.84	1/2	2659.19	1/2	2804.00	1/2	2948.82	1/2	3093.63	1/2	3201.90
3/4	145.32	3/4	402.75	3/4	660.17	3/4	917.59	3/4	1174.71	3/4	1431.51	3/4	1688.93	3/4	1946.35	3/4	2203.78	3/4	2461.20	3/4	2662.20	3/4	2807.02	3/4	2951.83	3/4	3096.65	3/4	3202.50
7	150.68	7	408.11	7	665.53	7	922.96	7	1180.06	7	1436.87	7	1694.29	7	1951.72	7	2209.14	7	2466.56	7	2665.22	7	2810.04	7	2954.85	7	3099.67	7	3203.10
1/4	156.05	1/4	413.47	1/4	670.99	1/4	928.32	1/4	1185.40	1/4	1442.23	1/4	1699.66	1/4	1957.08	1/4	2214.50	1/4	2471.93	1/4	2668.24	1/4	2813.05	1/4	2957.87	1/4	3102.68	1/4	3203.70
1/2	161.41	1/2	418.83	1/2	676.26	1/2	933.68	1/2	1190.75	1/2	1447.59	1/2	1705.02	1/2	1962.44	1/2	2219.87	1/2	2477.29	1/2	2671.25	1/2	2816.07	1/2	2960.89	1/2	3105.70	1/2	3204.30
3/4	166.77	3/4	424.20	3/4	681.62	3/4	939.05	3/4	1196.09	3/4	1452.96	3/4	1710.38	3/4	1967.81	3/4	2225.23	3/4	2482.65	3/4	2674.27	3/4	2819.09	3/4	2963.90	3/4	3108.72	3/4	3204.90
8	172.14	8	429.56	8	686.98	8	944.41	8	1201.44	8	1458.32	8	1715.74	8	1973.17	8	2230.59	8	2488.02	8	2677.29	8	2822.10	8	2966.92	8	3111.74	8	3205.50
1/4	177.50	1/4	434.92	1/4	692.35	1/4	949.77	1/4	1206.78	1/4	1463.68	1/4	1721.11	1/4	1978.53	1/4	2235.96	1/4	2493.38	1/4	2680.31	1/4	2825.12	1/4	2969.94	1/4	3114.75	1/4	3206.10
1/2	182.86	1/2	440.29	1/2	697.71	1/2	955.13	1/2	1212.13	1/2	1469.05	1/2	1726.47	1/2	1983.89	1/2	2241.32	1/2	2498.74	1/2	2683.32	1/2	2828.14	1/2	2972.95	1/2	3117.77	1/2	3206.70
3/4	188.23	3/4	445.65	3/4	703.07	3/4	960.50	3/4	1217.47	3/4	1474.41	3/4	1731.83	3/4	1989.26	3/4	2246.68	3/4	2504.11	3/4	2686.34	3/4	2831.15	3/4	2975.97	3/4	3120.79	3/4	3207.30
9	193.59	9	451.01	9	708.44	9	965.86	9	1222.82	9	1479.77	9	1737.20	9	1994.62	9	2252.04	9	2509.47	9	2689.36	9	2834.17	9	2978.99	9	3123.80	9	3207.90
1/4	198.95	1/4	456.38	1/4	713.80	1/4	971.22	1/4	1228.16	1/4	1485.14	1/4	1742.56	1/4	1999.98	1/4	2257.41	1/4	2514.83	1/4	2692.37	1/4	2837.19	1/4	2982.00	1/4	3126.82	1/4	3208.50
1/2	204.31	1/2	461.74	1/2	719.16	1/2	976.59	1/2	1233.51	1/2	1490.50	1/2	1747.92	1/2	2005.35	1/2	2262.77	1/2	2520.19	1/2	2695.39	1/2	2840.21	1/2	2985.02	1/2	3129.84	1/2	3209.10
3/4	209.68	3/4	467.10	3/4	724.53	3/4	981.95	3/4	1238.85	3/4	1495.86	3/4	1753.29	3/4	2010.71	3/4	2268.13	3/4	2525.56	3/4	2698.41	3/4	2843.22	3/4	2988.04	3/4	3132.85	3/4	3209.70
10	215.04	10	472.46	10	729.89	10																							

MAGNOLIA MARINE - BARGE "MM 110"

INNAGE TABLE

4 STAR

BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN

0 FEET		1 FEET		2 FEET		3 FEET		4 FEET		5 FEET		6 FEET		7 FEET		8 FEET		9 FEET		10 FEET		11 FEET		12 FEET		13 FEET		14 FEET		
IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.	IN.
0	14.51	0	257.94	0	515.37	0	772.79	0	1030.22	0	1286.96	0	1544.13	0	1801.55	0	2058.98	0	2316.40	0	2571.20	0	2725.56	0	2870.38	0	3015.19	0	3160.01	
1/4	17.18	1/4	263.31	1/4	520.73	1/4	778.16	1/4	1035.58	1/4	1292.30	1/4	1549.49	1/4	1806.92	1/4	2064.34	1/4	2321.76	1/4	2575.78	1/4	2728.58	1/4	2873.39	1/4	3018.21	1/4	3163.02	
1/2	19.85	1/2	268.67	1/2	526.09	1/2	783.52	1/2	1040.94	1/2	1297.65	1/2	1554.85	1/2	1812.28	1/2	2069.70	1/2	2327.13	1/2	2580.36	1/2	2731.59	1/2	2876.41	1/2	3021.23	1/2	3166.04	
3/4	23.60	3/4	274.03	3/4	531.46	3/4	788.88	3/4	1046.31	3/4	1302.99	3/4	1560.22	3/4	1817.64	3/4	2075.07	3/4	2332.49	3/4	2584.41	3/4	2734.61	3/4	2879.43	3/4	3024.24	3/4	3169.06	
1	27.35	1	279.40	1	536.82	1	794.24	1	1051.67	1	1308.34	1	1565.58	1	1823.00	1	2080.43	1	2337.85	1	2588.46	1	2737.63	1	2882.44	1	3027.26	1	3171.79	
1/4	31.10	1/4	284.76	1/4	542.18	1/4	799.61	1/4	1057.03	1/4	1313.68	1/4	1570.94	1/4	1828.37	1/4	2085.79	1/4	2343.22	1/4	2592.51	1/4	2740.64	1/4	2885.46	1/4	3030.28	1/4	3174.52	
1/2	34.85	1/2	290.12	1/2	547.55	1/2	804.97	1/2	1062.39	1/2	1319.03	1/2	1576.31	1/2	1833.73	1/2	2091.15	1/2	2348.58	1/2	2596.57	1/2	2743.66	1/2	2888.48	1/2	3033.29	1/2	3177.25	
3/4	39.68	3/4	295.49	3/4	552.91	3/4	810.33	3/4	1067.76	3/4	1324.37	3/4	1581.67	3/4	1839.09	3/4	2096.52	3/4	2353.94	3/4	2600.09	3/4	2746.68	3/4	2891.49	3/4	3036.31	3/4	3179.97	
2	44.50	2	300.85	2	558.27	2	815.70	2	1073.12	2	1329.72	2	1587.03	2	1844.46	2	2101.88	2	2359.30	2	2603.62	2	2749.70	2	2894.51	2	3039.33	2	3182.13	
1/4	49.33	1/4	306.21	1/4	563.64	1/4	821.06	1/4	1078.48	1/4	1335.06	1/4	1592.40	1/4	1849.82	1/4	2107.24	1/4	2364.67	1/4	2607.15	1/4	2752.71	1/4	2897.53	1/4	3042.34	1/4	3184.28	
1/2	54.15	1/2	311.57	1/2	569.00	1/2	826.42	1/2	1083.85	1/2	1340.41	1/2	1597.76	1/2	1855.18	1/2	2112.61	1/2	2370.03	1/2	2610.68	1/2	2755.73	1/2	2900.55	1/2	3045.36	1/2	3186.44	
3/4	59.51	3/4	316.94	3/4	574.36	3/4	831.79	3/4	1089.19	3/4	1345.75	3/4	1603.12	3/4	1860.55	3/4	2117.97	3/4	2375.39	3/4	2613.81	3/4	2758.75	3/4	2903.56	3/4	3048.38	3/4	3188.59	
3	64.88	3	322.30	3	579.72	3	837.15	3	1094.54	3	1351.10	3	1608.48	3	1865.91	3	2123.33	3	2380.76	3	2616.95	3	2761.76	3	2906.58	3	3051.40	3	3190.17	
1/4	70.24	1/4	327.66	1/4	585.09	1/4	842.51	1/4	1099.88	1/4	1356.44	1/4	1613.85	1/4	1871.27	1/4	2128.70	1/4	2386.12	1/4	2619.97	1/4	2764.78	1/4	2909.60	1/4	3054.41	1/4	3191.75	
1/2	75.60	1/2	333.03	1/2	590.45	1/2	847.87	1/2	1105.23	1/2	1361.79	1/2	1619.21	1/2	1876.63	1/2	2134.06	1/2	2391.48	1/2	2622.98	1/2	2767.80	1/2	2912.61	1/2	3057.43	1/2	3193.33	
3/4	80.97	3/4	338.39	3/4	595.81	3/4	853.24	3/4	1110.57	3/4	1367.15	3/4	1624.57	3/4	1882.00	3/4	2139.42	3/4	2396.85	3/4	2626.00	3/4	2770.81	3/4	2915.63	3/4	3060.45	3/4	3194.91	
4	86.33	4	343.75	4	601.18	4	858.60	4	1115.92	4	1372.51	4	1629.94	4	1887.36	4	2144.78	4	2402.21	4	2629.02	4	2773.83	4	2918.65	4	3063.46	4	3195.91	
1/4	91.69	1/4	349.12	1/4	606.54	1/4	863.96	1/4	1121.26	1/4	1377.88	1/4	1635.30	1/4	1892.72	1/4	2150.15	1/4	2407.57	1/4	2632.03	1/4	2776.85	1/4	2921.66	1/4	3066.48	1/4	3196.91	
1/2	97.05	1/2	354.48	1/2	611.90	1/2	869.33	1/2	1126.61	1/2	1383.24	1/2	1640.66	1/2	1898.09	1/2	2155.51	1/2	2412.93	1/2	2635.05	1/2	2779.87	1/2	2924.68	1/2	3069.50	1/2	3197.92	
3/4	102.42	3/4	359.84	3/4	617.27	3/4	874.69	3/4	1131.95	3/4	1388.60	3/4	1646.03	3/4	1903.45	3/4	2160.87	3/4	2418.30	3/4	2638.07	3/4	2782.88	3/4	2927.70	3/4	3072.51	3/4	3198.92	
5	107.78	5	365.20	5	622.63	5	880.05	5	1137.30	5	1393.96	5	1651.39	5	1908.81	5	2166.24	5	2423.66	5	2641.08	5	2785.90	5	2930.72	5	3075.53	5	3199.35	
1/4	113.14	1/4	370.57	1/4	627.99	1/4	885.42	1/4	1142.64	1/4	1399.33	1/4	1656.75	1/4	1914.18	1/4	2171.60	1/4	2429.02	1/4	2644.10	1/4	2788.92	1/4	2933.73	1/4	3078.55	1/4	3199.77	
1/2	118.51	1/2	375.93	1/2	633.35	1/2	890.78	1/2	1147.99	1/2	1404.69	1/2	1662.11	1/2	1919.54	1/2	2176.96	1/2	2434.39	1/2	2647.12	1/2	2791.93	1/2	2936.75	1/2	3081.57	1/2	3200.20	
3/4	123.87	3/4	381.29	3/4	638.72	3/4	896.14	3/4	1153.33	3/4	1410.05	3/4	1667.48	3/4	1924.90	3/4	2182.33	3/4	2439.75	3/4	2650.14	3/4	2794.95	3/4	2939.77	3/4	3084.58	3/4	3200.63	
6	129.23	6	386.66	6	644.08	6	901.50	6	1158.68	6	1415.42	6	1672.84	6	1930.26	6	2187.69	6	2445.11	6	2653.15	6	2797.97	6	2942.78	6	3087.60	6	3200.70	
1/4	134.60	1/4	392.02	1/4	649.44	1/4	906.87	1/4	1164.02	1/4	1420.78	1/4	1678.20	1/4	1935.63	1/4	2193.05	1/4	2450.48	1/4	2656.17	1/4	2800.98	1/4	2945.80	1/4	3090.62	1/4	3200.77	
1/2	139.96	1/2	397.38	1/2	654.81	1/2	912.23	1/2	1169.37	1/2	1426.14	1/2	1683.57	1/2	1940.99	1/2	2198.41	1/2	2455.84	1/2	2659.19	1/2	2804.00	1/2	2948.82	1/2	3093.63	1/2	3200.84	
3/4	145.32	3/4	402.75	3/4	660.17	3/4	917.59	3/4	1174.71	3/4	1431.51	3/4	1688.93	3/4	1946.35	3/4	2203.78	3/4	2461.20	3/4	2662.20	3/4	2807.02	3/4	2951.83	3/4	3096.65	3/4	3200.91	
7	150.68	7	408.11	7	665.53	7	922.96	7	1180.06	7	1436.87	7	1694.29	7	1951.72	7	2209.14	7	2466.56	7	2665.22	7	2810.04	7	2954.85	7	3099.67	7	3201.00	
1/4	156.05	1/4	413.47	1/4	670.09	1/4	928.32	1/4	1185.40	1/4	1442.23	1/4	1699.66	1/4	1957.08	1/4	2214.50	1/4	2471.93	1/4	2668.24	1/4	2813.05	1/4	2957.87	1/4	3102.68	1/4	3201.07	
1/2	161.41	1/2	418.83	1/2	676.26	1/2	933.68	1/2	1190.75	1/2	1447.59	1/2	1705.02	1/2	1962.44	1/2	2219.87	1/2	2477.29	1/2	2671.25	1/2	2816.07	1/2	2960.89	1/2	3105.70	1/2	3201.14	
3/4	166.77	3/4	424.20	3/4	681.62	3/4	939.05	3/4	1196.09	3/4	1452.96	3/4	1710.38	3/4	1967.81	3/4	2225.23	3/4	2482.65	3/4	2674.27	3/4	2819.09	3/4	2963.90	3/4	3108.72	3/4	3201.21	
8	172.14	8	429.56	8	686.98	8	944.41	8	1201.44	8	1458.32	8	1715.74	8	1973.17	8	2230.59	8	2488.02	8	2677.29	8	2822.10	8	2966.92	8	3111.74	8	3201.28	
1/4	177.50	1/4	434.92	1/4	692.35	1/4	949.77	1/4	1206.78	1/4	1463.68	1/4	1721.11	1/4	1978.53	1/4	2235.96	1/4	2493.38	1/4	2680.31	1/4	2825.12	1/4	2969.94	1/4	3114.75	1/4	3201.35	
1/2	182.86	1/2	440.29	1/2	697.71	1/2	955.13	1/2	1212.13	1/2	1469.05	1/2	1726.47	1/2	1983.89	1/2	2241.32	1/2	2498.74	1/2	2683.32	1/2	2828.14	1/2	2972.95	1/2	3117.77	1/2	3201.42	
3/4	188.23	3/4	445.65	3/4	703.07	3/4	960.50	3/4	1217.47	3/4	1474.41	3/4	1731.83	3/4	1989.26	3/4	2246.68	3/4	2504.11	3/4	2686.34	3/4	2831.15	3/4	2975.97	3/4	3120.79	3/4	3201.49	
9	193.59	9	451.01	9	708.44	9	965.86	9	1222.82	9	1479.77	9	1737.20	9	1994.62	9	2252.04	9	2509.47	9	2689.36	9	2834.17	9	2978.99	9	3123.80	9	3201.56	
1/4	198.95	1/4	456.38	1/4	713.80	1/4	971.22	1/4	1228.16	1/4	1485.14	1/4	1742.56	1/4	1999.98	1/4	2257.41	1/4	2514.83	1/4	2692.37	1/4	2837.19	1/4	2982.00	1/4	3126.82	1/4	3201.63	
1/2	204.31	1/2	461.74	1/2	719.16	1/2	976.59	1/2	1233.51	1/2	1490.50	1/2	1747.92	1/2	2005.35	1/2	2262.77	1/2	2520.19	1/2	2695.39	1/2	2840.21	1/2	2985.02	1/2	3129.84	1/2	3201.70	
3/4	209.68	3/4	467.10	3/4	724.53	3/4	981.95	3/4	1238.85	3/4	1495.86	3/4	1753.29	3/4	2010.71	3/4	2268.13	3/4	2525.56	3/4	2698.41	3/4	2843.22	3/4	2988.04	3/4	3132.85	3/4	3201.77	
10	215.04	1																												