

Barge ID	Barge Number	UOM	Gauge Type	Date Strapped	Strapped By	Comment
MAP	771	BARRELS	OUTAGE	11/08/04	INSPECTORATE	BARGE SHOULD BE ON EVEN LEVEL KEEL WHEN GAUGES ARE TAKEN.

Barge ID	Barge Number	Comp	Gauge Height
MAP	771	1 PORT	137.000
MAP	771	1 STAR	137.500
MAP	771	2 PORT	137.500
MAP	771	2 STAR	137.500
MAP	771	3 PORT	137.000
MAP	771	3 STAR	137.000

MAP 771

PORT 1

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	4,342.08	4,112.22	3,717.23	3,322.24	2,926.35	2,530.02	2,133.68	1,737.34	1,341.01	944.67	551.62	158.57
1/4	4,341.70	4,104.00	3,709.00	3,314.01	2,918.10	2,521.76	2,125.42	1,729.09	1,332.75	936.42	544.18	150.31
1/2	4,341.31	4,095.77	3,700.77	3,305.78	2,909.84	2,513.50	2,117.17	1,720.83	1,324.49	928.16	536.75	142.05
3/4	4,340.93	4,087.54	3,692.55	3,297.55	2,901.58	2,505.25	2,108.91	1,712.57	1,316.24	919.90	529.31	133.80
1	4,340.54	4,079.31	3,684.32	3,289.32	2,893.32	2,496.99	2,100.65	1,704.32	1,307.98	911.64	521.88	125.54
1/4	4,339.33	4,071.08	3,676.09	3,281.10	2,885.07	2,488.73	2,092.40	1,696.07	1,299.72	903.39	513.62	118.10
1/2	4,338.12	4,062.85	3,667.86	3,272.87	2,876.81	2,480.47	2,084.14	1,687.80	1,291.47	895.13	505.36	110.67
3/4	4,336.91	4,054.62	3,659.63	3,264.64	2,868.55	2,472.22	2,075.88	1,679.55	1,283.21	886.87	497.11	103.23
2	4,335.70	4,046.39	3,651.40	3,256.41	2,860.30	2,463.96	2,067.62	1,671.29	1,274.95	878.62	488.85	95.80
1/4	4,333.66	4,038.16	3,643.17	3,248.18	2,852.04	2,455.70	2,059.37	1,663.03	1,266.70	870.36	480.59	88.36
1/2	4,331.63	4,029.93	3,634.94	3,239.95	2,843.78	2,447.45	2,051.11	1,654.77	1,258.44	862.10	472.33	80.92
3/4	4,329.59	4,021.71	3,626.71	3,231.72	2,835.53	2,439.19	2,042.85	1,646.52	1,250.18	853.85	464.08	73.49
3	4,327.56	4,013.48	3,618.48	3,223.49	2,827.27	2,430.93	2,034.60	1,638.26	1,241.92	845.59	455.82	66.05
1/4	4,324.69	4,005.25	3,610.26	3,215.26	2,819.01	2,422.68	2,026.34	1,630.00	1,233.67	837.33	447.56	58.83
1/2	4,321.83	3,997.02	3,602.03	3,207.03	2,810.75	2,414.42	2,018.08	1,621.75	1,225.41	829.07	439.31	51.60
3/4	4,318.97	3,988.79	3,593.80	3,198.81	2,802.50	2,406.16	2,009.83	1,613.49	1,217.15	820.82	431.05	44.38
4	4,316.11	3,980.56	3,585.57	3,190.58	2,794.24	2,397.90	2,001.57	1,605.23	1,208.90	812.56	422.79	37.16
1/4	4,312.42	3,972.33	3,577.34	3,182.32	2,785.98	2,389.65	1,993.31	1,596.96	1,200.64	804.30	414.54	32.00
1/2	4,308.73	3,964.10	3,569.11	3,174.06	2,777.73	2,381.39	1,985.05	1,588.72	1,192.38	796.05	406.29	26.84
3/4	4,305.04	3,955.87	3,560.88	3,165.81	2,769.47	2,373.13	1,976.80	1,580.46	1,184.13	787.79	398.02	21.68
5	4,301.36	3,947.64	3,552.65	3,157.55	2,761.21	2,364.88	1,968.54	1,572.20	1,175.87	779.53	389.76	16.52
1/4	4,296.84	3,939.42	3,544.42	3,149.29	2,752.96	2,356.62	1,960.28	1,563.95	1,167.67	771.28	381.51	
1/2	4,292.33	3,931.19	3,536.19	3,141.03	2,744.70	2,348.36	1,952.04	1,555.69	1,159.35	763.02	373.25	
3/4	4,287.81	3,922.96	3,527.97	3,132.78	2,736.44	2,340.11	1,943.77	1,547.43	1,151.10	754.76	364.99	
6	4,283.30	3,914.73	3,519.74	3,124.52	2,728.18	2,331.85	1,935.51	1,539.18	1,142.84	746.50	356.74	
1/4	4,277.96	3,906.50	3,511.51	3,116.26	2,719.93	2,323.59	1,927.26	1,530.92	1,134.58	738.25	348.48	
1/2	4,272.62	3,898.27	3,503.28	3,108.01	2,711.67	2,315.33	1,919.00	1,522.66	1,126.33	729.99	340.22	
3/4	4,267.28	3,890.04	3,495.05	3,099.75	2,703.41	2,307.08	1,910.74	1,514.41	1,118.07	721.73	331.97	
7	4,261.94	3,881.81	3,486.82	3,091.49	2,695.16	2,298.82	1,902.48	1,506.15	1,109.81	713.48	323.71	
1/4	4,255.78	3,873.58	3,478.59	3,083.24	2,686.90	2,290.56	1,894.23	1,497.89	1,101.56	705.22	315.45	
1/2	4,249.61	3,865.35	3,470.36	3,074.98	2,678.64	2,282.31	1,885.97	1,489.63	1,093.30	696.96	307.19	
3/4	4,243.45	3,857.13	3,462.13	3,066.72	2,670.39	2,274.05	1,877.71	1,481.38	1,085.04	688.71	298.94	
8	4,237.28	3,848.90	3,453.90	3,058.46	2,662.13	2,265.79	1,869.49	1,473.12	1,076.78	680.45	290.68	
1/4	4,230.29	3,840.67	3,445.68	3,050.21	2,653.87	2,257.74	1,861.20	1,464.86	1,068.53	672.19	282.42	
1/2	4,223.30	3,832.44	3,437.45	3,041.95	2,645.61	2,249.00	1,852.94	1,456.61	1,060.27	663.93	274.17	
3/4	4,216.31	3,824.21	3,429.22	3,033.69	2,637.36	2,241.02	1,844.69	1,448.35	1,052.01	655.68	265.91	
9	4,209.32	3,815.98	3,420.99	3,025.44	2,629.10	2,232.76	1,836.43	1,440.09	1,043.76	647.42	257.65	
1/4	4,201.50	3,807.75	3,412.76	3,017.18	2,620.84	2,224.51	1,828.17	1,431.84	1,035.50	639.16	249.40	
1/2	4,193.69	3,799.52	3,404.53	3,008.92	2,612.59	2,216.25	1,819.91	1,423.58	1,027.24	630.91	241.14	
3/4	4,185.87	3,791.29	3,396.30	3,000.67	2,604.33	2,207.99	1,811.66	1,415.32	1,018.99	622.65	232.88	
10	4,178.06	3,783.06	3,388.07	2,992.41	2,596.07	2,199.74	1,803.40	1,407.06	1,010.73	614.39	224.62	
1/4	4,169.83	3,774.84	3,379.84	2,984.15	2,587.82	2,191.48	1,795.14	1,398.81	1,002.47	606.14	216.37	
1/2	4,161.60	3,766.61	3,371.61	2,975.89	2,579.56	2,183.22	1,786.89	1,390.55	994.21	597.88	208.11	
3/4	4,153.37	3,758.38	3,363.39	2,967.64	2,571.30	2,174.97	1,778.63	1,382.29	985.96	589.62	199.85	
11	4,145.14	3,750.15	3,355.16	2,959.38	2,563.04	2,166.71	1,770.37	1,374.04	977.70	581.36	191.60	
1/4	4,136.91	3,741.92	3,346.93	2,951.12	2,554.78	2,158.46	1,762.12	1,365.78	969.44	573.93	183.34	
1/2	4,128.68	3,733.69	3,338.70	2,942.87	2,546.53	2,150.19	1,753.86	1,357.52	961.19	566.49	175.08	
3/4	4,120.45	3,725.46	3,330.47	2,934.61	2,538.27	2,141.94	1,745.60	1,349.27	952.93	559.06	166.83	

MAP 771

STAR 1

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	0.00	4.128.68	3.733.69	3.338.70	2.942.87	2.546.53	2.150.19	1.753.86	1.357.52	961.19	566.49	175.08
1/4	0.00	4.120.45	3.725.46	3.330.47	2.934.61	2.538.27	2.141.94	1.745.60	1.349.27	952.93	559.06	166.83
1/2	4.342.08	4.112.22	3.717.23	3.322.24	2.926.35	2.530.02	2.133.68	1.737.34	1.341.01	944.67	551.62	158.57
3/4	4.341.70	4.104.00	3.709.00	3.314.01	2.918.10	2.521.76	2.125.42	1.729.09	1.332.75	936.42	544.18	150.31
1	4.341.31	4.095.77	3.700.77	3.305.78	2.909.64	2.513.50	2.117.17	1.720.83	1.324.49	928.16	536.75	142.05
1/4	4.340.93	4.087.54	3.692.55	3.297.55	2.901.58	2.505.25	2.108.94	1.712.57	1.316.24	919.90	529.31	133.80
1/2	4.340.54	4.079.31	3.684.32	3.289.32	2.893.32	2.496.99	2.100.65	1.704.32	1.307.98	911.64	521.88	125.54
3/4	4.339.33	4.071.08	3.676.09	3.281.10	2.885.07	2.488.73	2.092.40	1.696.06	1.299.72	903.39	513.62	118.10
2	4.338.12	4.062.85	3.667.86	3.272.87	2.876.81	2.480.47	2.084.14	1.687.80	1.291.47	895.13	505.36	110.67
1/4	4.336.91	4.054.62	3.659.63	3.264.64	2.868.55	2.472.22	2.075.88	1.679.55	1.283.21	886.88	497.11	103.23
1/2	4.335.70	4.046.39	3.651.40	3.256.41	2.860.30	2.463.96	2.067.62	1.671.29	1.274.95	878.62	488.85	95.80
3/4	4.333.66	4.038.16	3.643.17	3.248.18	2.852.04	2.455.70	2.059.37	1.663.06	1.266.70	870.36	480.59	88.36
3	4.331.63	4.029.93	3.634.94	3.239.95	2.843.78	2.447.45	2.051.11	1.654.77	1.258.44	862.10	472.33	80.92
1/4	4.329.59	4.021.71	3.626.71	3.231.71	2.835.53	2.439.19	2.042.85	1.646.52	1.250.18	853.85	464.08	73.49
1/2	4.327.56	4.013.48	3.618.48	3.223.49	2.827.27	2.430.93	2.034.60	1.638.26	1.241.92	845.59	455.82	66.05
3/4	4.324.69	4.005.25	3.610.26	3.215.26	2.819.01	2.422.68	2.026.34	1.630.00	1.233.67	837.33	447.56	58.83
4	4.321.83	3.997.02	3.602.03	3.207.03	2.810.75	2.414.42	2.018.08	1.621.75	1.225.41	829.07	439.31	51.60
1/4	4.318.97	3.988.78	3.593.80	3.198.81	2.802.50	2.406.16	2.009.83	1.613.49	1.217.15	820.82	431.05	44.38
1/2	4.316.11	3.980.56	3.585.57	3.190.58	2.794.24	2.391.90	2.001.57	1.605.23	1.208.90	812.56	422.79	37.16
3/4	4.312.42	3.972.33	3.577.34	3.182.32	2.785.98	2.389.65	1.993.31	1.596.98	1.200.64	804.30	414.54	32.00
5	4.308.73	3.964.10	3.569.11	3.174.06	2.777.73	2.381.39	1.985.05	1.588.72	1.192.38	796.05	406.28	26.84
1/4	4.305.04	3.955.87	3.560.88	3.165.80	2.769.47	2.373.13	1.976.80	1.582.46	1.184.13	787.79	398.02	21.68
1/2	4.301.36	3.947.64	3.552.65	3.157.55	2.761.21	2.364.88	1.968.54	1.572.20	1.175.87	779.53	389.76	16.52
3/4	4.296.84	3.939.42	3.544.42	3.149.29	2.752.96	2.356.62	1.960.28	1.563.95	1.167.61	771.28	381.51	
6	4.292.33	3.931.19	3.536.19	3.141.03	2.744.70	2.348.36	1.952.03	1.555.69	1.159.35	763.02	373.25	
1/4	4.287.81	3.922.96	3.527.97	3.132.78	2.736.44	2.340.11	1.943.77	1.547.43	1.151.10	754.76	364.99	
1/2	4.283.30	3.914.73	3.519.74	3.124.52	2.728.18	2.331.85	1.935.51	1.539.18	1.142.84	746.50	356.74	
3/4	4.277.96	3.906.50	3.511.51	3.116.26	2.719.93	2.323.59	1.927.26	1.530.92	1.134.58	738.25	348.48	
7	4.272.62	3.898.27	3.503.28	3.108.01	2.711.67	2.315.33	1.919.00	1.522.66	1.126.33	729.99	340.22	
1/4	4.267.28	3.890.04	3.495.05	3.099.75	2.703.41	2.307.08	1.910.74	1.514.41	1.118.07	721.73	331.97	
1/2	4.261.94	3.881.84	3.486.82	3.091.49	2.695.16	2.298.82	1.902.48	1.506.15	1.109.81	713.48	323.71	
3/4	4.255.78	3.873.58	3.478.59	3.083.24	2.686.90	2.290.56	1.894.23	1.497.89	1.101.56	705.22	315.45	
8	4.249.61	3.865.35	3.470.36	3.074.98	2.678.64	2.282.31	1.885.97	1.489.63	1.093.30	696.96	307.19	
1/4	4.243.45	3.857.13	3.462.13	3.066.72	2.670.39	2.274.05	1.877.71	1.481.38	1.085.04	688.71	298.94	
1/2	4.237.29	3.848.90	3.453.90	3.058.46	2.662.13	2.265.79	1.869.46	1.473.12	1.076.78	680.45	290.68	
3/4	4.230.29	3.840.67	3.445.68	3.050.21	2.653.87	2.257.54	1.861.20	1.464.86	1.068.53	672.19	282.42	
9	4.223.30	3.832.44	3.437.45	3.041.95	2.645.61	2.249.28	1.852.94	1.456.61	1.060.27	663.93	274.17	
1/4	4.216.31	3.824.21	3.429.22	3.033.69	2.637.36	2.241.02	1.844.69	1.448.38	1.052.01	655.68	265.91	
1/2	4.209.32	3.815.98	3.420.99	3.025.44	2.629.10	2.232.76	1.836.43	1.440.09	1.043.76	647.42	257.65	
3/4	4.201.50	3.807.75	3.412.76	3.017.18	2.620.84	2.224.51	1.828.17	1.431.84	1.035.50	639.16	249.40	
10	4.193.69	3.799.52	3.404.53	3.008.92	2.612.59	2.216.25	1.819.91	1.423.58	1.027.24	630.91	241.14	
1/4	4.185.87	3.791.29	3.396.30	3.000.67	2.604.33	2.207.99	1.811.66	1.415.32	1.018.99	622.65	232.88	
1/2	4.178.06	3.783.06	3.388.07	2.992.41	2.596.07	2.199.74	1.803.40	1.407.06	1.010.73	614.39	224.62	
3/4	4.169.83	3.774.84	3.379.84	2.984.15	2.587.82	2.191.48	1.795.14	1.398.81	1.002.47	606.14	216.37	
11	4.161.60	3.766.61	3.371.61	2.975.90	2.579.56	2.183.22	1.786.89	1.390.55	994.21	597.88	208.11	
1/4	4.153.37	3.758.38	3.363.39	2.967.64	2.571.30	2.174.97	1.778.63	1.382.29	985.96	589.62	199.85	
1/2	4.145.14	3.750.15	3.355.16	2.959.38	2.563.04	2.166.71	1.770.37	1.374.04	977.70	581.36	191.60	
3/4	4.136.91	3.741.92	3.346.93	2.951.12	2.554.79	2.158.45	1.762.12	1.365.78	969.44	573.93	183.34	

MAP 771

PORT 2

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	0.00	4.103.65	3.711.06	3.318.47	2.925.03	2.531.10	2.137.16	1.743.23	1.349.29	955.35	563.05	174.02
1/4	0.00	4.095.47	3.702.88	3.310.29	2.916.83	2.522.89	2.128.96	1.735.02	1.341.08	947.15	555.66	165.81
1/2	4.315.76	4.087.29	3.694.70	3.302.11	2.908.62	2.514.68	2.120.75	1.726.81	1.332.88	938.94	548.27	157.60
3/4	4.315.37	4.079.11	3.686.52	3.293.93	2.900.41	2.506.48	2.112.54	1.718.61	1.324.67	930.73	540.88	149.40
1	4.314.99	4.070.93	3.678.34	3.285.75	2.892.21	2.498.27	2.104.33	1.710.40	1.316.75	922.53	533.49	141.19
1/4	4.314.61	4.062.76	3.670.16	3.277.57	2.884.00	2.490.06	2.096.13	1.702.19	1.308.25	914.32	526.10	132.98
1/2	4.314.22	4.054.58	3.661.98	3.269.39	2.875.79	2.481.86	2.087.92	1.693.98	1.300.25	906.11	518.71	124.78
3/4	4.313.02	4.046.40	3.653.80	3.261.21	2.867.58	2.473.65	2.079.71	1.685.78	1.291.84	897.90	510.50	117.39
2	4.311.82	4.038.22	3.645.63	3.253.03	2.859.38	2.465.44	2.071.51	1.677.57	1.283.63	889.70	502.30	110.00
1/4	4.310.62	4.030.04	3.637.45	3.244.85	2.851.17	2.457.24	2.063.30	1.669.36	1.275.43	881.49	494.09	102.61
1/2	4.309.41	4.021.86	3.629.27	3.236.68	2.842.96	2.449.03	2.055.09	1.661.16	1.267.22	873.28	485.88	95.22
3/4	4.307.39	4.013.68	3.621.09	3.228.50	2.834.76	2.440.82	2.046.89	1.652.95	1.259.01	865.08	477.68	87.83
3	4.305.36	4.005.50	3.612.91	3.220.32	2.826.55	2.432.61	2.038.68	1.644.74	1.250.81	856.87	469.47	80.44
1/4	4.303.34	3.997.32	3.604.73	3.212.14	2.818.34	2.424.41	2.030.47	1.636.54	1.242.60	848.66	461.26	73.05
1/2	4.301.32	3.989.14	3.596.55	3.203.96	2.810.14	2.416.20	2.022.26	1.628.33	1.234.39	840.46	453.06	65.66
3/4	4.298.47	3.980.97	3.588.37	3.195.78	2.801.93	2.407.99	2.014.06	1.620.12	1.226.18	832.25	444.85	58.47
4	4.295.63	3.972.79	3.580.19	3.187.60	2.793.72	2.399.79	2.005.85	1.611.91	1.217.98	824.04	436.64	51.29
1/4	4.292.78	3.964.61	3.572.01	3.179.42	2.785.51	2.391.58	1.997.64	1.603.71	1.209.77	815.83	428.43	44.11
1/2	4.289.94	3.956.43	3.563.84	3.171.24	2.777.31	2.383.37	1.989.44	1.595.50	1.201.56	807.63	420.23	36.93
3/4	4.286.27	3.948.25	3.555.66	3.163.04	2.769.10	2.375.17	1.981.23	1.587.29	1.193.36	799.42	412.02	31.80
5	4.282.61	3.940.07	3.547.48	3.154.83	2.760.89	2.366.96	1.973.02	1.579.09	1.185.15	791.21	403.81	26.67
1/4	4.278.94	3.931.89	3.539.30	3.146.62	2.752.69	2.358.75	1.964.82	1.570.88	1.176.94	783.01	395.61	21.54
1/2	4.275.28	3.923.71	3.531.12	3.138.44	2.744.48	2.350.54	1.956.61	1.562.67	1.168.74	774.80	387.40	16.42
3/4	4.270.79	3.915.53	3.522.94	3.130.21	2.736.27	2.342.34	1.948.40	1.554.47	1.160.53	766.59	379.19	
6	4.266.30	3.907.35	3.514.76	3.122.00	2.728.07	2.334.13	1.940.19	1.546.26	1.152.32	758.39	370.99	
1/4	4.261.82	3.899.17	3.506.58	3.113.79	2.719.86	2.325.92	1.931.99	1.538.05	1.144.11	750.18	362.78	
1/2	4.257.33	3.891.00	3.498.40	3.105.59	2.711.65	2.317.72	1.923.78	1.529.84	1.135.91	741.97	354.57	
3/4	4.252.03	3.882.82	3.490.22	3.097.38	2.703.44	2.309.51	1.915.57	1.521.64	1.127.70	733.76	346.36	
7	4.246.72	3.874.64	3.482.05	3.089.17	2.695.24	2.301.30	1.907.37	1.513.43	1.119.49	725.56	338.16	
1/4	4.241.41	3.866.46	3.473.87	3.080.97	2.687.03	2.293.10	1.899.16	1.505.22	1.111.29	717.35	329.95	
1/2	4.236.10	3.858.28	3.465.69	3.072.76	2.678.82	2.284.89	1.890.95	1.497.02	1.103.08	709.14	321.74	
3/4	4.229.98	3.850.10	3.457.51	3.064.55	2.670.62	2.276.62	1.882.75	1.488.81	1.094.87	700.94	313.54	
8	4.223.85	3.841.92	3.449.33	3.056.35	2.662.41	2.268.47	1.874.54	1.480.60	1.086.67	692.73	305.33	
1/4	4.217.72	3.833.74	3.441.15	3.048.14	2.654.20	2.260.27	1.866.33	1.472.40	1.078.46	684.52	297.12	
1/2	4.211.59	3.825.56	3.432.97	3.039.93	2.646.00	2.252.06	1.858.12	1.464.19	1.070.25	676.32	288.92	
3/4	4.204.64	3.817.38	3.424.79	3.031.72	2.637.79	2.243.85	1.849.92	1.455.98	1.062.04	668.11	280.71	
9	4.197.70	3.809.21	3.416.61	3.023.52	2.629.58	2.235.65	1.841.71	1.447.77	1.053.84	659.90	272.50	
1/4	4.190.75	3.801.03	3.408.43	3.015.31	2.621.37	2.227.44	1.833.50	1.439.57	1.045.63	651.69	264.29	
1/2	4.183.80	3.792.85	3.400.26	3.007.10	2.613.17	2.219.23	1.825.30	1.431.36	1.037.42	643.49	256.09	
3/4	4.176.03	3.784.67	3.392.08	2.998.90	2.604.96	2.211.03	1.817.09	1.423.15	1.029.22	635.28	247.88	
10	4.168.26	3.776.49	3.383.90	2.990.69	2.596.75	2.202.82	1.808.88	1.414.95	1.021.01	627.07	239.67	
1/4	4.160.49	3.768.31	3.375.72	2.982.48	2.588.55	2.194.61	1.800.68	1.406.74	1.012.80	618.87	231.47	
1/2	4.152.72	3.760.13	3.367.54	2.974.28	2.580.34	2.186.40	1.792.47	1.398.53	1.004.69	610.66	223.26	
3/4	4.144.55	3.751.95	3.359.36	2.966.07	2.572.13	2.178.20	1.784.26	1.390.32	996.39	602.45	215.05	
11	4.136.37	3.743.77	3.351.18	2.957.86	2.565.93	2.169.99	1.776.05	1.382.12	988.18	594.25	206.85	
1/4	4.128.19	3.735.59	3.343.00	2.948.65	2.557.72	2.161.78	1.767.85	1.373.91	979.97	586.04	198.64	
1/2	4.120.01	3.727.42	3.334.82	2.941.45	2.547.51	2.153.58	1.759.64	1.365.70	971.77	577.83	190.43	
3/4	4.111.83	3.719.24	3.326.64	2.933.24	2.539.31	2.145.37	1.751.43	1.357.50	963.56	570.44	182.22	

MAP 771

STAR 2

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	0.00	4.103 65	3.711 06	3.318 47	2.925 03	2.531 10	2.137 16	1.743 23	1.349 29	955 35	563 05	174 02
1/4	0.00	4.095 47	3.702 88	3.310 29	2.916 83	2.522 89	2.128 96	1.735 02	1.341 08	947 15	555 66	165 81
1/2	4.315 76	4.087 29	3.694 70	3.302 11	2.908 62	2.514 68	2.120 75	1.726 81	1.332 88	938 94	548 27	157 60
3/4	4.315 37	4.079 11	3.686 52	3.293 93	2.900 41	2.506 48	2.112 54	1.718 61	1.324 67	930 73	540 88	149 40
1	4.314 99	4.070 93	3.678 34	3.285 75	2.892 21	2.498 27	2.104 33	1.710 40	1.316 75	922 53	533 49	141 19
1/4	4.314 61	4.062 76	3.670 16	3.277 57	2.884 00	2.490 06	2.096 13	1.702 19	1.308 25	914 32	526 10	132 98
1/2	4.314 22	4.054 58	3.661 98	3.269 39	2.875 79	2.481 86	2.087 92	1.693 98	1.300 25	906 11	518 71	124 78
3/4	4.313 02	4.046 40	3.653 80	3.261 21	2.867 58	2.473 65	2.079 71	1.685 78	1.291 84	897 90	510 50	117 39
2	4.311 82	4.038 22	3.645 63	3.253 03	2.859 38	2.465 44	2.071 51	1.677 57	1.283 63	889 70	502 30	110 00
1/4	4.310 62	4.030 04	3.637 45	3.244 85	2.851 17	2.457 24	2.063 30	1.669 36	1.275 43	881 49	494 09	102 61
1/2	4.309 41	4.021 86	3.629 27	3.236 66	2.842 96	2.449 03	2.055 09	1.661 16	1.267 22	873 28	485 88	95 22
3/4	4.307 39	4.013 68	3.621 09	3.228 50	2.834 76	2.440 82	2.046 89	1.652 95	1.259 01	865 08	477 68	87 83
3	4.305 36	4.005 50	3.612 91	3.220 32	2.826 55	2.432 61	2.038 68	1.644 74	1.250 81	856 87	469 47	80 44
1/4	4.303 34	3.997 32	3.604 73	3.212 14	2.818 34	2.424 41	2.030 47	1.636 54	1.242 60	848 66	461 26	73 05
1/2	4.301 32	3.989 14	3.596 55	3.203 96	2.810 14	2.416 20	2.022 26	1.628 33	1.234 39	840 46	453 06	65 66
3/4	4.298 47	3.980 97	3.588 37	3.195 78	2.801 93	2.407 99	2.014 06	1.620 12	1.226 18	832 25	444 85	58 47
4	4.295 63	3.972 79	3.580 19	3.187 60	2.793 72	2.399 79	2.005 85	1.611 91	1.217 98	824 04	436 64	51 29
1/4	4.292 78	3.964 61	3.572 01	3.179 42	2.785 51	2.391 58	1.997 64	1.603 71	1.209 77	815 83	428 43	44 11
1/2	4.289 94	3.956 43	3.563 84	3.171 24	2.777 31	2.383 37	1.989 44	1.595 50	1.201 56	807 63	420 23	36 93
3/4	4.286 27	3.948 25	3.555 66	3.163 04	2.769 10	2.375 17	1.981 23	1.587 29	1.193 36	799 42	412 02	31 80
5	4.282 61	3.940 07	3.547 48	3.154 83	2.760 89	2.366 96	1.973 02	1.579 09	1.185 15	791 21	403 81	26 67
1/4	4.278 94	3.931 89	3.539 30	3.146 62	2.752 69	2.358 75	1.964 82	1.570 88	1.176 94	783 01	395 61	21 54
1/2	4.275 28	3.923 71	3.531 12	3.138 44	2.744 48	2.350 54	1.956 61	1.562 67	1.168 74	774 80	387 40	16 42
3/4	4.270 79	3.915 53	3.522 94	3.130 21	2.736 27	2.342 34	1.948 40	1.554 47	1.160 53	766 59	379 19	
6	4.266 30	3.907 35	3.514 76	3.122 00	2.728 07	2.334 13	1.940 19	1.546 26	1.152 32	758 39	370 99	
1/4	4.261 82	3.899 17	3.506 58	3.113 79	2.719 86	2.325 92	1.931 99	1.538 05	1.144 11	750 18	362 78	
1/2	4.257 33	3.891 00	3.498 40	3.105 59	2.711 65	2.317 72	1.923 78	1.529 84	1.135 91	741 97	354 57	
3/4	4.252 03	3.882 82	3.490 22	3.097 38	2.703 44	2.308 51	1.915 57	1.521 64	1.127 70	733 76	346 36	
7	4.246 72	3.874 64	3.482 05	3.089 17	2.695 24	2.301 30	1.907 37	1.513 43	1.119 49	725 56	338 16	
1/4	4.241 41	3.866 46	3.473 87	3.080 97	2.687 03	2.293 10	1.899 16	1.505 22	1.111 29	717 35	329 95	
1/2	4.236 10	3.858 28	3.465 69	3.072 76	2.678 82	2.284 89	1.890 95	1.497 02	1.103 08	709 14	321 74	
3/4	4.229 98	3.850 10	3.457 51	3.064 55	2.670 62	2.276 68	1.882 75	1.488 81	1.094 87	700 94	313 54	
8	4.223 85	3.841 92	3.449 33	3.056 35	2.662 41	2.268 47	1.874 54	1.480 60	1.086 67	692 73	305 33	
1/4	4.217 72	3.833 74	3.441 15	3.048 14	2.654 20	2.260 27	1.866 33	1.472 40	1.078 46	684 52	297 12	
1/2	4.211 59	3.825 56	3.432 97	3.039 93	2.646 00	2.252 06	1.858 12	1.464 19	1.070 25	676 32	288 92	
3/4	4.204 64	3.817 38	3.424 79	3.031 72	2.637 79	2.243 85	1.849 92	1.455 98	1.062 04	668 11	280 71	
9	4.197 70	3.809 21	3.416 61	3.023 52	2.629 58	2.235 65	1.841 71	1.447 77	1.053 84	659 90	272 50	
1/4	4.190 75	3.801 03	3.408 43	3.015 31	2.621 38	2.227 44	1.833 50	1.439 57	1.045 63	651 69	264 29	
1/2	4.183 80	3.792 85	3.400 26	3.007 10	2.613 17	2.219 23	1.825 30	1.431 36	1.037 42	643 49	256 09	
3/4	4.176 03	3.784 67	3.392 08	2.998 90	2.604 96	2.211 03	1.817 09	1.423 15	1.029 22	635 28	247 88	
10	4.168 26	3.776 49	3.383 90	2.990 69	2.596 75	2.202 82	1.808 88	1.414 95	1.021 01	627 07	239 67	
1/4	4.160 49	3.768 31	3.375 72	2.982 48	2.588 55	2.194 61	1.800 68	1.406 74	1.012 80	618 87	231 47	
1/2	4.152 72	3.760 13	3.367 54	2.974 28	2.580 34	2.186 40	1.792 47	1.398 53	1.004 69	610 66	223 26	
3/4	4.144 55	3.751 95	3.359 36	2.966 07	2.572 13	2.178 20	1.784 26	1.390 32	996 39	602 45	215 05	
11	4.136 37	3.743 77	3.351 18	2.957 86	2.565 93	2.169 99	1.776 05	1.382 12	988 18	594 25	206 85	
1/4	4.128 19	3.735 59	3.343 00	2.949 65	2.555 72	2.161 78	1.767 85	1.373 91	979 97	586 04	198 64	
1/2	4.120 01	3.727 42	3.334 82	2.941 45	2.547 51	2.153 58	1.759 64	1.365 70	971 77	577 83	190 43	
3/4	4.111 83	3.719 24	3.326 64	2.933 24	2.539 31	2.145 37	1.751 43	1.357 50	963 56	570 44	182 22	

MAP 771

PORT 3

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT
0	4.303.29	4.075.47	3.683.98	3.292.50	2.900.14	2.507.36	2.114.58	1.721.79	1.329.01	936.22	546.69	157.17
1/4	4.302.91	4.067.32	3.675.83	3.284.34	2.891.96	2.499.18	2.106.39	1.713.61	1.320.83	928.04	539.32	148.98
1/2	4.302.52	4.059.16	3.667.67	3.276.18	2.883.78	2.490.99	2.098.21	1.705.43	1.312.64	919.86	531.95	140.78
3/4	4.302.14	4.051.00	3.659.52	3.268.03	2.874.60	2.482.81	2.090.03	1.697.24	1.304.46	911.68	524.58	132.61
1	4.301.76	4.042.85	3.651.36	3.259.87	2.865.23	2.474.63	2.081.84	1.689.06	1.296.28	903.49	517.21	124.43
1/4	4.300.56	4.034.69	3.643.20	3.251.72	2.856.23	2.466.45	2.073.66	1.680.88	1.288.09	895.31	509.03	117.06
1/2	4.299.36	4.026.54	3.635.05	3.243.56	2.851.05	2.458.26	2.065.48	1.672.69	1.279.91	887.13	500.85	109.69
3/4	4.298.16	4.018.38	3.626.89	3.235.40	2.842.86	2.450.08	2.057.30	1.664.51	1.271.73	878.94	492.66	102.32
2	4.296.96	4.010.22	3.618.74	3.227.25	2.834.68	2.441.90	2.049.11	1.656.33	1.263.54	870.76	484.48	94.95
1/4	4.294.94	4.002.07	3.610.58	3.219.09	2.826.50	2.433.71	2.040.93	1.648.15	1.255.36	862.58	476.30	87.58
1/2	4.292.92	3.993.91	3.602.42	3.210.94	2.818.31	2.425.53	2.032.75	1.639.96	1.247.18	854.39	468.11	80.21
3/4	4.290.91	3.985.76	3.594.27	3.202.78	2.810.13	2.417.35	2.024.56	1.631.78	1.239.00	846.21	459.93	72.84
3	4.288.89	3.977.60	3.586.11	3.194.62	2.801.95	2.409.16	2.016.38	1.623.60	1.230.81	838.03	451.75	65.47
1/4	4.286.05	3.969.44	3.577.96	3.186.47	2.793.77	2.400.98	2.008.20	1.615.41	1.222.63	828.85	443.57	58.31
1/2	4.283.21	3.961.29	3.569.80	3.178.31	2.785.58	2.392.80	2.000.01	1.607.23	1.214.45	821.66	435.38	51.15
3/4	4.280.38	3.953.13	3.561.64	3.170.16	2.777.40	2.384.62	1.991.83	1.599.05	1.206.26	813.46	427.20	43.99
4	4.277.54	3.944.98	3.553.49	3.162.00	2.769.22	2.376.43	1.983.65	1.590.86	1.198.08	805.30	419.02	36.83
1/4	4.273.88	3.936.82	3.545.33	3.153.82	2.761.03	2.368.25	1.975.47	1.582.68	1.189.90	797.11	410.83	31.71
1/2	4.270.23	3.928.66	3.537.18	3.145.63	2.752.85	2.360.07	1.967.28	1.574.50	1.181.71	788.93	402.65	26.60
3/4	4.266.57	3.920.51	3.529.02	3.137.45	2.744.67	2.351.88	1.959.10	1.566.32	1.173.53	780.75	394.47	21.48
5	4.262.92	3.912.35	3.520.86	3.129.27	2.736.48	2.343.70	1.950.92	1.558.13	1.165.35	772.56	386.28	16.37
1/4	4.258.44	3.904.20	3.512.71	3.121.09	2.728.30	2.335.52	1.942.73	1.549.95	1.157.17	764.38	378.10	
1/2	4.253.97	3.896.04	3.504.55	3.112.90	2.720.12	2.327.33	1.934.55	1.541.77	1.148.98	756.20	369.92	
3/4	4.249.49	3.887.88	3.496.40	3.104.72	2.711.94	2.319.15	1.926.37	1.533.58	1.140.80	748.02	361.74	
6	4.245.02	3.879.73	3.488.24	3.096.54	2.703.75	2.310.97	1.918.18	1.525.40	1.132.62	739.83	353.55	
1/4	4.239.73	3.871.57	3.480.08	3.088.35	2.696.57	2.302.79	1.910.00	1.517.22	1.124.43	731.65	345.37	
1/2	4.234.44	3.863.42	3.471.93	3.080.17	2.687.39	2.294.60	1.901.82	1.509.03	1.116.25	723.47	337.19	
3/4	4.229.15	3.855.26	3.463.77	3.071.99	2.679.20	2.286.42	1.893.64	1.500.85	1.108.07	715.28	329.00	
7	4.223.86	3.847.10	3.455.62	3.063.80	2.671.02	2.278.24	1.885.45	1.492.67	1.099.88	707.10	320.82	
1/4	4.217.75	3.838.95	3.447.46	3.055.62	2.662.84	2.270.05	1.877.27	1.484.49	1.091.70	698.92	312.64	
1/2	4.211.64	3.830.79	3.439.30	3.047.44	2.654.65	2.261.87	1.869.09	1.476.30	1.083.52	690.73	304.45	
3/4	4.205.53	3.822.64	3.431.15	3.039.26	2.646.47	2.253.69	1.860.90	1.468.12	1.075.34	682.55	296.27	
8	4.199.42	3.814.48	3.422.99	3.031.07	2.638.29	2.245.50	1.852.72	1.459.94	1.067.15	674.37	288.09	
1/4	4.192.49	3.806.32	3.414.84	3.022.89	2.630.11	2.237.32	1.844.54	1.451.75	1.058.97	666.19	279.91	
1/2	4.185.56	3.798.17	3.406.68	3.014.71	2.621.92	2.229.14	1.836.35	1.443.57	1.050.79	658.00	271.72	
3/4	4.178.63	3.790.01	3.398.52	3.006.52	2.613.74	2.220.96	1.828.17	1.435.39	1.042.60	649.82	263.54	
9	4.171.70	3.781.86	3.390.37	2.998.35	2.605.56	2.212.77	1.819.99	1.427.20	1.034.42	641.64	255.36	
1/4	4.163.96	3.773.70	3.382.21	2.990.16	2.597.37	2.204.59	1.811.81	1.419.02	1.026.24	633.45	247.17	
1/2	4.156.21	3.765.54	3.374.06	2.981.97	2.589.19	2.196.41	1.803.62	1.410.84	1.018.05	625.27	238.99	
3/4	4.148.47	3.757.39	3.365.90	2.973.79	2.581.01	2.188.22	1.795.44	1.402.66	1.009.87	617.09	230.81	
10	4.140.72	3.749.23	3.357.74	2.965.61	2.572.82	2.180.04	1.787.26	1.394.47	1.001.69	608.90	222.62	
1/4	4.132.56	3.741.08	3.349.59	2.957.43	2.564.64	2.171.86	1.779.07	1.386.29	993.51	600.72	214.44	
1/2	4.124.41	3.732.92	3.341.43	2.949.24	2.556.46	2.163.67	1.770.89	1.378.11	985.32	592.54	206.26	
3/4	4.116.25	3.724.76	3.333.28	2.941.06	2.548.28	2.155.49	1.762.71	1.369.92	977.14	584.36	198.08	
11	4.108.10	3.716.61	3.325.12	2.932.88	2.540.09	2.147.31	1.754.52	1.361.74	968.96	576.17	189.89	
1/4	4.099.94	3.708.45	3.316.96	2.924.69	2.531.91	2.139.13	1.746.34	1.353.56	960.77	568.80	181.71	
1/2	4.091.78	3.700.30	3.308.80	2.916.51	2.523.73	2.130.94	1.738.16	1.345.37	952.59	561.43	173.53	
3/4	4.083.63	3.692.12	3.300.65	2.908.33	2.515.54	2.122.76	1.729.98	1.337.19	944.41	554.06	165.34	

MAP 771

STAR 3

	0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	6 FT	7 FT	8 FT	9 FT	10 FT	11 FT	12 FT	13 FT	14 FT
0	4.303.29	4.075.47	3.683.98	3.292.50	2.900.14	2.507.36	2.114.58	1.721.79	1.329.01	936.22	546.69	157.17			
1/4	4.302.91	4.067.32	3.675.83	3.284.34	2.891.96	2.499.18	2.106.39	1.713.61	1.320.83	928.04	539.32	148.98			
1/2	4.302.52	4.059.16	3.667.67	3.276.18	2.883.78	2.490.99	2.098.21	1.705.43	1.312.64	919.86	531.95	140.78			
3/4	4.302.14	4.051.00	3.659.52	3.268.03	2.874.60	2.482.81	2.090.03	1.697.24	1.304.46	911.68	524.58	132.61			
1	4.301.76	4.042.85	3.651.36	3.259.87	2.867.41	2.474.63	2.081.84	1.689.06	1.296.28	903.49	517.21	124.43			
1/4	4.300.56	4.034.69	3.643.20	3.251.72	2.859.23	2.466.45	2.073.66	1.680.88	1.288.09	895.31	509.03	117.06			
1/2	4.299.36	4.026.54	3.635.05	3.243.56	2.851.05	2.458.26	2.065.48	1.672.69	1.279.91	887.13	500.85	109.69			
3/4	4.298.16	4.018.38	3.626.89	3.235.40	2.842.86	2.450.08	2.057.30	1.664.51	1.271.73	878.94	492.66	102.32			
2	4.296.96	4.010.22	3.618.74	3.227.25	2.834.68	2.441.90	2.049.11	1.656.33	1.263.54	870.76	484.48	94.95			
1/4	4.294.94	4.002.07	3.610.58	3.219.09	2.826.50	2.433.71	2.040.93	1.648.15	1.255.36	862.58	476.30	87.58			
1/2	4.292.92	3.993.91	3.602.42	3.210.94	2.818.31	2.425.53	2.032.75	1.639.96	1.247.18	854.39	468.11	80.21			
3/4	4.290.91	3.985.76	3.594.27	3.202.78	2.810.13	2.417.35	2.024.56	1.631.78	1.239.00	846.21	459.93	72.84			
3	4.288.89	3.977.60	3.586.11	3.194.62	2.801.95	2.409.16	2.016.38	1.623.60	1.230.81	838.03	451.75	65.47			
1/4	4.286.05	3.969.44	3.577.96	3.186.47	2.793.77	2.400.98	2.008.20	1.615.41	1.222.63	828.85	443.57	58.31			
1/2	4.283.21	3.961.29	3.569.80	3.178.31	2.785.58	2.392.80	2.000.01	1.607.23	1.214.45	821.66	435.38	51.15			
3/4	4.280.38	3.953.13	3.561.64	3.170.16	2.777.40	2.384.62	1.991.83	1.599.05	1.206.26	813.46	427.20	43.99			
4	4.277.54	3.944.98	3.553.49	3.162.00	2.769.22	2.376.43	1.983.65	1.590.86	1.198.08	805.30	419.02	36.83			
1/4	4.273.88	3.936.82	3.545.33	3.153.82	2.761.03	2.368.25	1.975.47	1.582.68	1.189.90	797.11	410.83	31.71			
1/2	4.270.23	3.928.66	3.537.18	3.145.63	2.752.85	2.360.07	1.967.28	1.574.50	1.181.71	788.93	402.65	26.60			
3/4	4.266.57	3.920.51	3.529.02	3.137.45	2.744.67	2.351.88	1.959.10	1.566.32	1.173.53	780.75	394.47	21.48			
5	4.262.92	3.912.35	3.520.86	3.129.27	2.736.48	2.343.70	1.950.92	1.558.13	1.165.35	772.56	386.28	16.37			
1/4	4.258.44	3.904.20	3.512.71	3.121.09	2.728.30	2.335.52	1.942.73	1.549.95	1.157.17	764.38	378.10				
1/2	4.253.97	3.896.04	3.504.55	3.112.80	2.720.12	2.327.33	1.934.55	1.541.77	1.148.98	756.20	369.92				
3/4	4.249.49	3.887.88	3.496.40	3.104.72	2.711.94	2.319.15	1.926.37	1.533.58	1.140.80	748.02	361.74				
6	4.245.02	3.879.73	3.488.24	3.098.54	2.703.75	2.310.97	1.918.18	1.525.45	1.132.62	739.83	353.55				
1/4	4.239.73	3.871.57	3.480.08	3.088.35	2.695.57	2.302.79	1.910.00	1.517.22	1.124.43	731.65	345.37				
1/2	4.234.44	3.863.42	3.471.93	3.080.17	2.687.39	2.294.60	1.901.82	1.509.03	1.116.25	723.47	337.19				
3/4	4.229.15	3.855.26	3.463.77	3.071.99	2.679.20	2.286.42	1.893.64	1.500.85	1.108.07	715.28	329.00				
7	4.223.86	3.847.10	3.455.62	3.063.80	2.671.02	2.278.24	1.885.45	1.492.67	1.099.88	707.10	320.82				
1/4	4.217.75	3.838.95	3.447.46	3.055.62	2.662.84	2.270.05	1.877.27	1.484.49	1.091.70	698.92	312.64				
1/2	4.211.64	3.830.79	3.439.30	3.047.44	2.654.65	2.261.87	1.869.09	1.476.30	1.083.52	690.73	304.45				
3/4	4.205.53	3.822.64	3.431.15	3.039.26	2.646.47	2.253.69	1.860.90	1.468.12	1.075.34	682.55	296.27				
8	4.199.42	3.814.48	3.422.99	3.031.07	2.638.29	2.245.50	1.852.72	1.459.94	1.067.15	674.37	288.09				
1/4	4.192.49	3.806.32	3.414.84	3.022.89	2.630.11	2.237.32	1.844.54	1.451.75	1.058.97	666.19	279.91				
1/2	4.185.56	3.798.17	3.406.68	3.014.71	2.621.92	2.229.14	1.836.35	1.443.57	1.050.79	658.00	271.72				
3/4	4.178.63	3.790.01	3.398.52	3.006.52	2.613.74	2.220.96	1.828.17	1.435.39	1.042.60	649.82	263.54				
9	4.171.70	3.781.86	3.390.37	2.998.35	2.605.56	2.212.77	1.819.99	1.427.20	1.034.42	641.64	255.36				
1/4	4.163.96	3.773.70	3.382.21	2.990.16	2.597.37	2.204.59	1.811.81	1.419.02	1.026.24	633.45	247.17				
1/2	4.156.21	3.765.54	3.374.06	2.981.97	2.589.19	2.196.41	1.803.62	1.410.84	1.018.05	625.27	238.99				
3/4	4.148.47	3.757.39	3.365.90	2.973.79	2.581.01	2.188.22	1.795.44	1.402.66	1.009.87	617.09	230.81				
10	4.140.72	3.749.23	3.357.74	2.965.61	2.572.82	2.180.04	1.787.26	1.394.47	1.001.69	608.90	222.62				
1/4	4.132.56	3.741.08	3.349.59	2.957.43	2.564.64	2.171.86	1.779.07	1.386.29	993.51	600.72	214.44				
1/2	4.124.41	3.732.92	3.341.43	2.949.24	2.556.46	2.163.67	1.770.89	1.378.11	985.32	592.54	206.26				
3/4	4.116.25	3.724.76	3.333.28	2.941.06	2.548.28	2.155.49	1.762.71	1.369.92	977.14	584.36	198.08				
11	4.108.10	3.716.61	3.325.12	2.932.88	2.540.09	2.147.31	1.754.52	1.361.74	968.96	576.17	189.89				
1/4	4.099.94	3.708.45	3.316.96	2.924.69	2.531.91	2.139.13	1.746.34	1.353.56	960.77	568.80	181.71				
1/2	4.091.78	3.700.30	3.308.80	2.916.51	2.523.73	2.130.94	1.738.16	1.345.37	952.59	561.43	173.53				
3/4	4.083.63	3.692.12	3.300.65	2.908.33	2.515.54	2.122.76	1.729.98	1.337.19	944.41	554.06	165.34				