



**BUREAU  
VERITAS**

# BARGE "HFL - 3077" HINES FURLONG LINE

## INNAGE TABLE

# 1 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4756

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.
0	* 1.56	0	284.19	0	640.16	0	997.86	0	1,355.56	0	1,713.25	0	2,070.95	0	2,428.64	0	2,786.34	0	3,144.04	0	3,501.73	0	3,859.43	0	4,217.12	0	4,574.82	0	4,932.52		
1/4	2.84	1/4	291.39	1/4	647.62	1/4	1,005.31	1/4	1,363.01	1/4	1,720.70	1/4	2,078.40	1/4	2,436.10	1/4	2,793.79	1/4	3,151.49	1/4	3,509.18	1/4	3,866.88	1/4	4,224.58	1/4	4,582.27	1/4	4,939.97		
1/2	4.12	1/2	298.60	1/2	655.07	1/2	1,012.76	1/2	1,370.46	1/2	1,728.16	1/2	2,085.85	1/2	2,443.55	1/2	2,801.24	1/2	3,158.94	1/2	3,516.64	1/2	3,874.33	1/2	4,232.03	1/2	4,589.72	1/2	4,947.42		
3/4	5.40	3/4	305.80	3/4	662.52	3/4	1,020.22	3/4	1,377.91	3/4	1,735.61	3/4	2,093.30	3/4	2,451.00	3/4	2,808.70	3/4	3,166.39	3/4	3,524.09	3/4	3,881.78	3/4	4,239.48	3/4	4,597.18	3/4	4,954.87		
1	8.40	1	313.00	1	669.97	1	1,027.67	1	1,385.36	1	1,743.06	1	2,100.76	1	2,458.45	1	2,816.15	1	3,173.84	1	3,531.54	1	3,889.24	1	4,246.93	1	4,604.63	1	4,962.32		
1/4	11.41	1/4	320.21	1/4	677.42	1/4	1,035.12	1/4	1,392.82	1/4	1,750.51	1/4	2,108.21	1/4	2,465.90	1/4	2,823.60	1/4	3,181.30	1/4	3,538.99	1/4	3,896.69	1/4	4,254.38	1/4	4,612.08	1/4	4,969.78		
1/2	14.41	1/2	327.41	1/2	684.88	1/2	1,042.57	1/2	1,400.27	1/2	1,757.96	1/2	2,115.66	1/2	2,473.36	1/2	2,831.05	1/2	3,188.75	1/2	3,546.44	1/2	3,904.14	1/2	4,261.84	1/2	4,619.53	1/2	4,977.23		
3/4	17.42	3/4	334.62	3/4	692.33	3/4	1,050.32	3/4	1,407.72	3/4	1,765.42	3/4	2,123.11	3/4	2,480.81	3/4	2,838.50	3/4	3,196.20	3/4	3,553.90	3/4	3,911.59	3/4	4,269.29	3/4	4,626.98	3/4	4,984.68		
2	22.03	2	341.94	2	699.78	2	1,057.48	2	1,415.17	2	1,772.87	2	2,130.56	2	2,488.26	2	2,845.96	2	3,203.65	2	3,561.35	2	3,919.04	2	4,276.74	2	4,634.44	2	4,991.75		
1/4	26.64	1/4	349.27	1/4	707.23	1/4	1,064.93	1/4	1,422.62	1/4	1,780.32	1/4	2,138.02	1/4	2,495.71	1/4	2,853.41	1/4	3,211.10	1/4	3,568.80	1/4	3,926.50	1/4	4,284.19	1/4	4,641.89	1/4	4,998.82		
1/2	31.26	1/2	356.60	1/2	714.68	1/2	1,072.38	1/2	1,430.08	1/2	1,787.77	1/2	2,145.47	1/2	2,503.16	1/2	2,860.86	1/2	3,218.56	1/2	3,576.25	1/2	3,933.95	1/2	4,291.64	1/2	4,649.34	1/2	5,005.90		
3/4	35.87	3/4	363.93	3/4	722.14	3/4	1,079.83	3/4	1,437.53	3/4	1,795.22	3/4	2,152.92	3/4	2,510.62	3/4	2,868.31	3/4	3,226.01	3/4	3,583.70	3/4	3,941.40	3/4	4,299.10	3/4	4,656.79	3/4	5,012.97		
3	41.78	3	371.26	3	729.59	3	1,087.28	3	1,444.98	3	1,802.68	3	2,160.37	3	2,518.07	3	2,875.76	3	3,233.46	3	3,591.16	3	3,948.85	3	4,306.55	3	4,664.24	3	5,018.91		
1/4	47.68	1/4	378.58	1/4	737.04	1/4	1,094.74	1/4	1,452.43	1/4	1,810.13	1/4	2,167.82	1/4	2,525.52	1/4	2,883.22	1/4	3,240.91	1/4	3,598.61	1/4	3,956.30	1/4	4,314.00	1/4	4,671.70	1/4	5,024.85		
1/2	54.02	1/2	385.91	1/2	744.49	1/2	1,102.19	1/2	1,459.88	1/2	1,817.58	1/2	2,175.28	1/2	2,532.97	1/2	2,890.67	1/2	3,248.36	1/2	3,606.06	1/2	3,963.76	1/2	4,321.45	1/2	4,679.15	1/2	5,030.79		
3/4	60.36	3/4	393.24	3/4	751.94	3/4	1,109.64	3/4	1,467.34	3/4	1,825.03	3/4	2,182.73	3/4	2,540.42	3/4	2,898.12	3/4	3,255.82	3/4	3,613.51	3/4	3,971.21	3/4	4,328.90	3/4	4,686.60	3/4	5,036.74		
4	66.82	4	400.69	4	759.40	4	1,117.09	4	1,474.79	4	1,832.48	4	2,190.18	4	2,547.88	4	2,905.57	4	3,263.27	4	3,620.96	4	3,978.66	4	4,336.36	4	4,694.05	4	5,041.54		
1/4	73.29	1/4	408.14	1/4	766.85	1/4	1,124.54	1/4	1,482.24	1/4	1,839.94	1/4	2,197.63	1/4	2,555.33	1/4	2,913.02	1/4	3,270.72	1/4	3,628.42	1/4	3,986.11	1/4	4,343.81	1/4	4,701.50	1/4	5,046.35		
1/2	79.75	1/2	415.60	1/2	774.30	1/2	1,132.00	1/2	1,489.69	1/2	1,847.39	1/2	2,205.08	1/2	2,562.78	1/2	2,920.48	1/2	3,278.17	1/2	3,635.87	1/2	3,993.56	1/2	4,351.26	1/2	4,707.96	1/2	5,051.15		
3/4	86.22	3/4	423.05	3/4	781.75	3/4	1,139.45	3/4	1,497.14	3/4	1,854.84	3/4	2,212.54	3/4	2,570.23	3/4	2,927.93	3/4	3,285.62	3/4	3,643.32	3/4	4,001.02	3/4	4,358.71	3/4	4,716.41	3/4	5,055.96		
5	92.68	5	430.50	5	789.20	5	1,146.90	5	1,504.60	5	1,862.29	5	2,219.99	5	2,577.68	5	2,935.38	5	3,293.08	5	3,650.77	5	4,008.47	5	4,366.16	5	4,723.86	5	5,059.63		
1/4	99.14	1/4	437.95	1/4	796.66	1/4	1,154.35	1/4	1,512.05	1/4	1,869.74	1/4	2,227.44	1/4	2,585.14	1/4	2,942.83	1/4	3,300.53	1/4	3,658.22	1/4	4,015.92	1/4	4,373.62	1/4	4,731.31	1/4	5,063.31		
1/2	105.61	1/2	445.40	1/2	804.11	1/2	1,161.80	1/2	1,519.50	1/2	1,877.20	1/2	2,234.89	1/2	2,592.59	1/2	2,950.28	1/2	3,307.98	1/2	3,665.68	1/2	4,023.37	1/2	4,381.07	1/2	4,738.76	1/2	5,066.98		
3/4	112.07	3/4	452.86	3/4	811.56	3/4	1,169.26	3/4	1,526.95	3/4	1,884.65	3/4	2,242.34	3/4	2,600.04	3/4	2,957.74	3/4	3,315.43	3/4	3,673.13	3/4	4,030.82	3/4	4,388.52	3/4	4,746.22	3/4	5,070.66		
6	118.66	6	460.43	6	819.01	6	1,176.71	6	1,534.40	6	1,892.10	6	2,249.80	6	2,607.49	6	2,965.19	6	3,322.88	6	3,680.58	6	4,038.28	6	4,395.97	6	4,753.67	6	5,073.20		
1/4	125.24	1/4	468.01	1/4	826.46	1/4	1,184.16	1/4	1,541.86	1/4	1,899.55	1/4	2,257.25	1/4	2,614.94	1/4	2,972.64	1/4	3,330.34	1/4	3,688.03	1/4	4,045.73	1/4	4,403.42	1/4	4,761.12	1/4	5,075.75		
1/2	131.83	1/2	475.59	1/2	833.92	1/2	1,191.61	1/2	1,549.31	1/2	1,907.00	1/2	2,264.70	1/2	2,622.40	1/2	2,980.09	1/2	3,337.79	1/2	3,695.48	1/2	4,053.18	1/2	4,410.88	1/2	4,768.57	1/2	5,078.29		
3/4	138.42	3/4	483.17	3/4	841.37	3/4	1,199.06	3/4	1,556.76	3/4	1,914.46	3/4	2,272.15	3/4	2,629.85	3/4	2,987.54	3/4	3,345.24	3/4	3,702.94	3/4	4,060.63	3/4	4,418.33	3/4	4,776.02	3/4	5,080.84		
7	145.00	7	490.75	7	848.82	7	1,206.52	7	1,564.21	7	1,921.91	7	2,279.60	7	2,637.30	7	2,995.00	7	3,352.69	7	3,710.39	7	4,068.08	7	4,425.78	7	4,783.48	7	5,082.25		
1/4	151.59	1/4	498.32	1/4	856.27	1/4	1,213.97	1/4	1,571.66	1/4	1,929.36	1/4	2,287.06	1/4	2,644.75	1/4	3,002.45	1/4	3,360.14	1/4	3,717.84	1/4	4,075.54	1/4	4,433.23	1/4	4,790.93	1/4	5,083.66		
1/2	158.17	1/2	505.90	1/2	863.72	1/2	1,221.42	1/2	1,579.12	1/2	1,936.81	1/2	2,294.51	1/2	2,652.20	1/2	3,009.90	1/2	3,367.60	1/2	3,725.29	1/2	4,082.99	1/2	4,440.68	1/2	4,798.38	1/2	5,085.08		
3/4	164.76	3/4	513.48	3/4	871.18	3/4	1,228.87	3/4	1,586.57	3/4	1,944.26	3/4	2,301.96	3/4	2,659.66	3/4	3,017.35	3/4	3,375.05	3/4	3,732.74	3/4	4,090.44	3/4	4,448.14	3/4	4,805.83	3/4	5,086.49		
8	171.71	8	520.93	8	878.63	8	1,236.32	8	1,594.02	8	1,951.72	8	2,309.41	8	2,667.11	8	3,024.80	8	3,382.50	8	3,740.20	8	4,097.89	8	4,455.59	8	4,813.28	8	5,086.90		
1/4	178.66	1/4	528.38	1/4	886.08	1/4	1,243.78	1/4	1,601.47	1/4	1,959.17	1/4	2,316.86	1/4	2,674.56	1/4	3,032.26	1/4	3,389.95	1/4	3,747.65	1/4	4,105.34	1/4	4,463.04	1/4	4,820.74	1/4	5,087.32		
1/2	185.62	1/2	535.84	1/2	893.53	1/2	1,251.23	1/2	1,608.92	1/2	1,966.62	1/2	2,324.32	1/2	2,682.01	1/2	3,039.71	1/2	3,397.40	1/2	3,755.10	1/2	4,112.80	1/2	4,470.49	1/2	4,828.19	1/2	5,087.74		
3/4	192.57	3/4	543.29	3/4	900.98	3/4	1,258.68	3/4	1,616.38	3/4	1,974.07	3/4	2,331.77	3/4	2,689.46	3/4	3,047.16	3/4	3,404.86	3/4	3,762.55	3/4	4,120.25	3/4	4,477.94	3/4	4,835.64	3/4	5,088.10		
9	199.52	9	550.74	9	908.44	9	1,266.13	9	1,623.83	9	1,981.52	9	2,339.22	9	2,696.92	9	3,054.61	9	3,412.31	9	3,770.00	9	4,127.70	9	4,485.40	9	4,843.09	9	5,088.50		
1/4	206.47	1/4	558.19	1/4	915.89	1/4	1,273.58	1/4	1,631.28	1/4	1,989.98	1/4	2,346.67	1/4	2,704.37	1/4	3,062.06	1/4	3,419.76	1/4	3,777.46	1/4	4,135.15	1/4	4,492.85	1/4	4,850.54	1/4	5,088.86		
1/2	2																														



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## INNAGE TABLE

## 2 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4756

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.		
0	1.30	0	301.66	0	662.24	0	1,022.81	0	1,383.39	0	1,743.96	0	2,104.54	0	2,465.12	0	2,825.69	0	3,186.27	0	3,546.84	0	3,907.42	0	4,268.00	0	4,628.57	0	4,974.72				
1/4	2.33	1/4	309.17	1/4	669.75	1/4	1,030.32	1/4	1,390.90	1/4	1,751.48	1/4	2,112.05	1/4	2,472.63	1/4	2,833.20	1/4	3,193.78	1/4	3,554.36	1/4	3,914.93	1/4	4,275.51	1/4	4,636.08	1/4	4,991.86				
1/2	3.35	1/2	316.68	1/2	677.26	1/2	1,037.84	1/2	1,398.41	1/2	1,758.99	1/2	2,119.56	1/2	2,480.14	1/2	2,840.72	1/2	3,201.29	1/2	3,561.87	1/2	3,922.44	1/2	4,283.02	1/2	4,643.60	1/2	4,999.00				
3/4	4.38	3/4	324.20	3/4	684.77	3/4	1,045.35	3/4	1,405.92	3/4	1,766.50	3/4	2,127.08	3/4	2,487.65	3/4	2,848.23	3/4	3,208.80	3/4	3,569.38	3/4	3,929.96	3/4	4,290.53	3/4	4,651.11	3/4	4,996.14				
1	7.46	1	331.71	1	692.28	1	1,052.86	1	1,413.44	1	1,774.01	1	2,134.59	1	2,495.16	1	2,855.74	1	3,216.32	1	3,576.89	1	3,937.47	1	4,298.04	1	4,658.62	1	5,003.29				
1/4	10.54	1/4	339.22	1/4	699.80	1/4	1,060.37	1/4	1,420.95	1/4	1,781.52	1/4	2,142.10	1/4	2,502.68	1/4	2,863.25	1/4	3,223.83	1/4	3,584.40	1/4	3,944.98	1/4	4,305.56	1/4	4,666.13	1/4	5,010.43				
1/2	13.62	1/2	346.73	1/2	707.31	1/2	1,067.88	1/2	1,428.46	1/2	1,789.04	1/2	2,149.61	1/2	2,510.19	1/2	2,870.76	1/2	3,231.34	1/2	3,591.92	1/2	3,952.49	1/2	4,313.07	1/2	4,673.64	1/2	5,017.57				
3/4	16.70	3/4	354.24	3/4	714.82	3/4	1,075.40	3/4	1,435.97	3/4	1,796.55	3/4	2,157.12	3/4	2,517.70	3/4	2,878.28	3/4	3,238.85	3/4	3,599.43	3/4	3,960.00	3/4	4,320.58	3/4	4,681.16	3/4	5,024.71				
2	21.59	2	361.76	2	722.33	2	1,082.91	2	1,443.48	2	1,804.06	2	2,164.64	2	2,525.21	2	2,885.79	2	3,246.36	2	3,606.94	2	3,967.52	2	4,328.09	2	4,688.67	2	5,031.32				
1/4	26.48	1/4	369.27	1/4	729.84	1/4	1,090.42	1/4	1,451.00	1/4	1,811.57	1/4	2,172.15	1/4	2,532.72	1/4	2,893.30	1/4	3,253.88	1/4	3,614.45	1/4	3,975.03	1/4	4,335.60	1/4	4,696.18	1/4	5,037.92				
1/2	31.38	1/2	376.78	1/2	737.36	1/2	1,097.93	1/2	1,458.51	1/2	1,819.08	1/2	2,179.66	1/2	2,540.24	1/2	2,900.81	1/2	3,261.39	1/2	3,621.96	1/2	3,982.54	1/2	4,343.12	1/2	4,703.72	1/2	5,044.53				
3/4	36.27	3/4	384.29	3/4	744.87	3/4	1,105.44	3/4	1,466.02	3/4	1,826.60	3/4	2,187.17	3/4	2,547.75	3/4	2,908.32	3/4	3,268.90	3/4	3,629.48	3/4	3,990.05	3/4	4,350.63	3/4	4,710.46	3/4	5,051.14				
3	42.71	3	391.80	3	752.38	3	1,112.96	3	1,473.53	3	1,834.11	3	2,194.68	3	2,555.26	3	2,915.84	3	3,276.41	3	3,636.99	3	3,997.56	3	4,358.14	3	4,717.61	3	5,056.73				
1/4	49.14	1/4	399.32	1/4	759.89	1/4	1,120.47	1/4	1,481.04	1/4	1,841.62	1/4	2,202.20	1/4	2,562.77	1/4	2,923.35	1/4	3,283.92	1/4	3,644.50	1/4	4,005.08	1/4	4,365.65	1/4	4,724.75	1/4	5,062.32				
1/2	56.08	1/2	406.83	1/2	767.40	1/2	1,127.98	1/2	1,488.56	1/2	1,849.13	1/2	2,209.71	1/2	2,570.28	1/2	2,930.86	1/2	3,291.44	1/2	3,652.01	1/2	4,012.59	1/2	4,373.16	1/2	4,731.89	1/2	5,067.51				
3/4	63.01	3/4	414.34	3/4	774.92	3/4	1,135.49	3/4	1,496.07	3/4	1,856.64	3/4	2,217.22	3/4	2,577.80	3/4	2,938.37	3/4	3,298.95	3/4	3,659.52	3/4	4,020.10	3/4	4,380.68	3/4	4,739.03	3/4	5,073.50				
4	69.95	4	421.85	4	782.43	4	1,143.00	4	1,503.58	4	1,864.16	4	2,224.73	4	2,585.31	4	2,945.88	4	3,306.46	4	3,667.04	4	4,027.61	4	4,388.19	4	4,746.17	4	5,078.03				
1/4	76.88	1/4	429.36	1/4	789.94	1/4	1,150.52	1/4	1,511.09	1/4	1,871.67	1/4	2,232.24	1/4	2,592.82	1/4	2,953.40	1/4	3,313.97	1/4	3,674.55	1/4	4,035.12	1/4	4,395.70	1/4	4,753.32	1/4	5,082.56				
1/2	83.81	1/2	436.88	1/2	797.45	1/2	1,158.03	1/2	1,518.60	1/2	1,879.18	1/2	2,239.76	1/2	2,600.33	1/2	2,960.91	1/2	3,321.48	1/2	3,682.06	1/2	4,042.64	1/2	4,403.21	1/2	4,760.46	1/2	5,087.08				
3/4	90.75	3/4	444.39	3/4	804.96	3/4	1,165.54	3/4	1,526.12	3/4	1,886.69	3/4	2,247.27	3/4	2,607.84	3/4	2,968.42	3/4	3,329.00	3/4	3,689.57	3/4	4,050.15	3/4	4,410.72	3/4	4,767.60	3/4	5,091.61				
5	97.68	5	451.90	5	812.48	5	1,173.05	5	1,533.63	5	1,894.20	5	2,254.78	5	2,615.36	5	2,975.93	5	3,336.51	5	3,697.08	5	4,057.66	5	4,418.24	5	4,774.74	5	5,095.07				
1/4	104.62	1/4	459.41	1/4	819.99	1/4	1,180.56	1/4	1,541.14	1/4	1,901.72	1/4	2,262.29	1/4	2,622.87	1/4	2,983.44	1/4	3,344.02	1/4	3,704.60	1/4	4,065.17	1/4	4,425.75	1/4	4,781.88	1/4	5,098.53				
1/2	111.55	1/2	466.92	1/2	827.50	1/2	1,188.08	1/2	1,548.65	1/2	1,909.23	1/2	2,269.80	1/2	2,630.38	1/2	2,990.96	1/2	3,351.53	1/2	3,712.11	1/2	4,072.68	1/2	4,433.26	1/2	4,789.03	1/2	5,101.99				
3/4	118.48	3/4	474.44	3/4	835.01	3/4	1,195.59	3/4	1,556.16	3/4	1,916.74	3/4	2,277.32	3/4	2,637.89	3/4	2,998.47	3/4	3,359.04	3/4	3,719.62	3/4	4,080.20	3/4	4,440.77	3/4	4,796.17	3/4	5,105.45				
6	125.42	6	481.95	6	842.52	6	1,203.10	6	1,563.68	6	1,924.25	6	2,284.83	6	2,645.40	6	3,005.98	6	3,366.56	6	3,727.13	6	4,087.71	6	4,448.28	6	4,803.31	6	5,107.84				
1/4	132.35	1/4	489.46	1/4	850.04	1/4	1,210.61	1/4	1,571.19	1/4	1,931.76	1/4	2,292.34	1/4	2,652.92	1/4	3,013.49	1/4	3,374.07	1/4	3,734.64	1/4	4,095.22	1/4	4,455.80	1/4	4,810.45	1/4	5,110.24				
1/2	139.29	1/2	496.97	1/2	857.55	1/2	1,218.12	1/2	1,578.70	1/2	1,939.28	1/2	2,299.85	1/2	2,660.43	1/2	3,021.00	1/2	3,381.58	1/2	3,742.16	1/2	4,102.73	1/2	4,463.31	1/2	4,817.59	1/2	5,112.63				
3/4	146.22	3/4	504.48	3/4	865.06	3/4	1,225.64	3/4	1,586.21	3/4	1,946.79	3/4	2,307.36	3/4	2,667.94	3/4	3,028.52	3/4	3,389.09	3/4	3,749.67	3/4	4,110.24	3/4	4,470.82	3/4	4,824.74	3/4	5,115.02				
7	153.15	7	512.00	7	872.57	7	1,233.15	7	1,593.72	7	1,954.30	7	2,314.88	7	2,675.45	7	3,036.03	7	3,396.60	7	3,757.18	7	4,117.76	7	4,478.33	7	4,831.88	7	5,116.35				
1/4	160.09	1/4	519.51	1/4	880.08	1/4	1,240.66	1/4	1,601.24	1/4	1,961.81	1/4	2,322.39	1/4	2,682.96	1/4	3,043.54	1/4	3,404.12	1/4	3,764.69	1/4	4,125.27	1/4	4,485.84	1/4	4,839.02	1/4	5,117.68				
1/2	167.02	1/2	527.02	1/2	887.60	1/2	1,248.17	1/2	1,608.75	1/2	1,969.32	1/2	2,329.90	1/2	2,690.48	1/2	3,051.05	1/2	3,411.63	1/2	3,772.20	1/2	4,132.78	1/2	4,493.36	1/2	4,846.16	1/2	5,119.01				
3/4	173.96	3/4	534.53	3/4	895.11	3/4	1,255.68	3/4	1,616.26	3/4	1,976.84	3/4	2,337.41	3/4	2,697.99	3/4	3,058.56	3/4	3,419.14	3/4	3,779.72	3/4	4,140.29	3/4	4,500.87	3/4	4,853.30	3/4	5,120.34				
8	181.47	8	542.04	8	902.62	8	1,263.20	8	1,623.77	8	1,984.35	8	2,344.92	8	2,705.50	8	3,066.08	8	3,426.65	8	3,787.23	8	4,147.80	8									



**BUREAU  
VERITAS**

# BARGE "HFL - 3077" HINES FURLONG LINE

## INNAGE TABLE

## 3 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4756

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.
0	* 1.36	0	314.32	0	679.52	0	1,043.22	0	1,406.77	0	1,770.32	0	2,133.87	0	2,497.42	0	2,860.98	0	3,224.53	0	3,574.71	0	3,832.01	0	4,085.64	0	4,339.27	0	4,592.90		
1/4	2.44	1/4	321.93	1/4	687.10	1/4	1,050.79	1/4	1,414.34	1/4	1,777.89	1/4	2,141.45	1/4	2,505.00	1/4	2,868.55	1/4	3,232.10	1/4	3,580.77	1/4	3,837.29	1/4	4,090.92	1/4	4,344.56	1/4	4,598.19		
1/2	3.51	1/2	329.54	1/2	694.68	1/2	1,058.36	1/2	1,421.92	1/2	1,785.47	1/2	2,149.02	1/2	2,512.57	1/2	2,876.12	1/2	3,239.68	1/2	3,586.83	1/2	3,842.58	1/2	4,096.21	1/2	4,349.84	1/2	4,603.47		
3/4	4.59	3/4	337.15	3/4	702.25	3/4	1,065.94	3/4	1,429.49	3/4	1,793.04	3/4	2,156.59	3/4	2,520.15	3/4	2,883.70	3/4	3,247.25	3/4	3,592.55	3/4	3,847.86	3/4	4,101.49	3/4	4,355.12	3/4	4,608.76		
1	7.92	1	344.76	1	709.83	1	1,073.51	1	1,437.06	1	1,800.62	1	2,164.17	1	2,527.72	1	2,891.27	1	3,254.82	1	3,598.26	1	3,853.14	1	4,106.78	1	4,360.41	1	4,614.04		
1/4	11.25	1/4	352.37	1/4	717.41	1/4	1,081.09	1/4	1,444.64	1/4	1,808.19	1/4	2,171.74	1/4	2,535.29	1/4	2,898.85	1/4	3,262.40	1/4	3,603.98	1/4	3,858.43	1/4	4,112.06	1/4	4,365.69	1/4	4,619.32		
1/2	14.58	1/2	359.98	1/2	724.99	1/2	1,088.66	1/2	1,452.21	1/2	1,815.76	1/2	2,179.32	1/2	2,542.87	1/2	2,906.42	1/2	3,269.97	1/2	3,609.70	1/2	3,863.71	1/2	4,117.34	1/2	4,370.98	1/2	4,624.61		
3/4	17.91	3/4	367.59	3/4	732.56	3/4	1,096.23	3/4	1,459.79	3/4	1,823.34	3/4	2,186.89	3/4	2,550.44	3/4	2,913.99	3/4	3,277.55	3/4	3,615.11	3/4	3,869.00	3/4	4,122.63	3/4	4,376.26	3/4	4,629.89		
2	23.10	2	375.20	2	740.14	2	1,103.81	2	1,467.36	2	1,830.91	2	2,194.46	2	2,558.02	2	2,921.57	2	3,285.12	2	3,620.52	2	3,874.28	2	4,127.91	2	4,381.54	2	4,634.78		
1/4	28.29	1/4	382.80	1/4	747.72	1/4	1,111.38	1/4	1,474.93	1/4	1,838.49	1/4	2,202.04	1/4	2,565.59	1/4	2,929.14	1/4	3,292.69	1/4	3,625.93	1/4	3,879.56	1/4	4,133.20	1/4	4,386.83	1/4	4,639.67		
1/2	33.48	1/2	390.41	1/2	755.29	1/2	1,118.96	1/2	1,482.51	1/2	1,846.06	1/2	2,209.61	1/2	2,573.16	1/2	2,936.72	1/2	3,300.27	1/2	3,633.22	1/2	3,886.85	1/2	4,138.48	1/2	4,392.11	1/2	4,644.57		
3/4	38.68	3/4	398.02	3/4	762.87	3/4	1,126.53	3/4	1,490.08	3/4	1,853.63	3/4	2,217.19	3/4	2,580.74	3/4	2,944.29	3/4	3,307.84	3/4	3,636.50	3/4	3,890.13	3/4	4,143.76	3/4	4,397.40	3/4	4,649.46		
3	45.50	3	405.63	3	770.45	3	1,134.10	3	1,497.66	3	1,861.21	3	2,224.76	3	2,588.31	3	2,951.86	3	3,315.42	3	3,641.78	3	3,895.42	3	4,149.05	3	4,402.68	3	4,655.36		
1/4	52.33	1/4	413.24	1/4	778.02	1/4	1,141.68	1/4	1,505.23	1/4	1,868.78	1/4	2,232.33	1/4	2,595.89	1/4	2,959.44	1/4	3,322.99	1/4	3,647.07	1/4	3,900.70	1/4	4,154.33	1/4	4,407.96	1/4	4,657.67		
1/2	59.70	1/2	420.85	1/2	785.60	1/2	1,149.25	1/2	1,512.80	1/2	1,876.36	1/2	2,239.91	1/2	2,603.46	1/2	2,967.01	1/2	3,330.56	1/2	3,652.35	1/2	3,905.98	1/2	4,159.62	1/2	4,413.25	1/2	4,661.78		
3/4	67.07	3/4	428.46	3/4	793.18	3/4	1,156.83	3/4	1,520.38	3/4	1,883.93	3/4	2,247.48	3/4	2,611.03	3/4	2,974.59	3/4	3,338.14	3/4	3,657.64	3/4	3,911.27	3/4	4,164.90	3/4	4,418.53	3/4	4,665.89		
4	74.44	4	436.07	4	800.76	4	1,164.40	4	1,527.95	4	1,891.50	4	2,255.06	4	2,618.61	4	2,982.16	4	3,345.71	4	3,662.92	4	3,916.55	4	4,170.18	4	4,423.82	4	4,669.21		
1/4	81.60	1/4	443.68	1/4	808.33	1/4	1,171.97	1/4	1,535.53	1/4	1,899.08	1/4	2,258.63	1/4	2,621.68	1/4	2,987.73	1/4	3,353.29	1/4	3,668.20	1/4	3,921.84	1/4	4,175.47	1/4	4,429.10	1/4	4,672.54		
1/2	89.17	1/2	451.29	1/2	815.91	1/2	1,179.55	1/2	1,543.10	1/2	1,906.65	1/2	2,270.20	1/2	2,633.76	1/2	2,997.31	1/2	3,360.86	1/2	3,673.49	1/2	3,927.12	1/2	4,180.75	1/2	4,438.38	1/2	4,675.86		
3/4	96.54	3/4	458.89	3/4	823.49	3/4	1,187.12	3/4	1,550.67	3/4	1,914.23	3/4	2,277.78	3/4	2,641.33	3/4	3,004.88	3/4	3,368.43	3/4	3,678.77	3/4	3,932.40	3/4	4,186.04	3/4	4,439.67	3/4	4,679.19		
5	103.91	5	466.50	5	831.06	5	1,194.70	5	1,558.25	5	1,921.80	5	2,285.35	5	2,648.90	5	3,012.46	5	3,376.01	5	3,684.06	5	3,937.69	5	4,191.32	5	4,444.95	5	4,681.73		
1/4	111.28	1/4	474.11	1/4	838.64	1/4	1,202.27	1/4	1,565.82	1/4	1,929.37	1/4	2,292.93	1/4	2,656.48	1/4	3,020.03	1/4	3,383.58	1/4	3,689.34	1/4	3,942.97	1/4	4,196.60	1/4	4,450.24	1/4	4,684.27		
1/2	118.65	1/2	481.72	1/2	846.22	1/2	1,209.84	1/2	1,573.40	1/2	1,936.95	1/2	2,300.50	1/2	2,664.05	1/2	3,027.60	1/2	3,391.16	1/2	3,694.62	1/2	3,948.26	1/2	4,201.89	1/2	4,455.52	1/2	4,686.81		
3/4	126.02	3/4	489.33	3/4	853.79	3/4	1,217.42	3/4	1,580.97	3/4	1,944.52	3/4	2,308.07	3/4	2,671.63	3/4	3,035.18	3/4	3,398.73	3/4	3,699.91	3/4	3,953.54	3/4	4,207.17	3/4	4,460.80	3/4	4,689.36		
6	133.39	6	496.94	6	861.37	6	1,224.99	6	1,588.54	6	1,952.10	6	2,315.65	6	2,679.20	6	3,042.75	6	3,406.30	6	3,705.19	6	3,958.82	6	4,212.46	6	4,466.09	6	4,691.12		
1/4	140.76	1/4	504.55	1/4	868.95	1/4	1,232.57	1/4	1,596.12	1/4	1,959.67	1/4	2,332.22	1/4	2,688.77	1/4	3,050.33	1/4	3,413.88	1/4	3,710.48	1/4	3,964.11	1/4	4,217.74	1/4	4,471.37	1/4	4,692.88		
1/2	148.13	1/2	512.16	1/2	876.53	1/2	1,240.14	1/2	1,603.69	1/2	1,967.24	1/2	2,330.80	1/2	2,694.35	1/2	3,057.90	1/2	3,421.45	1/2	3,715.76	1/2	3,969.39	1/2	4,223.02	1/2	4,476.66	1/2	4,694.64		
3/4	155.49	3/4	519.77	3/4	884.10	3/4	1,247.71	3/4	1,611.27	3/4	1,974.82	3/4	2,338.37	3/4	2,701.92	3/4	3,065.47	3/4	3,429.03	3/4	3,721.04	3/4	3,974.68	3/4	4,228.31	3/4	4,481.94	3/4	4,696.40		
7	162.86	7	527.38	7	891.68	7	1,255.29	7	1,618.84	7	1,982.39	7	2,345.94	7	2,709.50	7	3,073.05	7	3,436.60	7	3,726.33	7	3,979.96	7	4,233.59	7	4,487.22	7	4,697.38		
1/4	170.23	1/4	534.98	1/4	899.26	1/4	1,262.86	1/4	1,626.41	1/4	1,989.97	1/4	2,353.52	1/4	2,717.07	1/4	3,080.62	1/4	3,444.17	1/4	3,731.61	1/4	3,985.24	1/4	4,238.88	1/4	4,492.51	1/4	4,698.35		
1/2	177.60	1/2	542.59	1/2	906.83	1/2	1,270.44	1/2	1,633.99	1/2	1,997.54	1/2	2,361.09	1/2	2,724.64	1/2	3,088.20	1/2	3,451.75	1/2	3,736.90	1/2	3,990.53	1/2	4,244.16	1/2	4,497.79	1/2	4,698.33		
3/4	184.97	3/4	550.20	3/4	914.41	3/4	1,278.01	3/4	1,641.56	3/4	2,005.11	3/4	2,368.67	3/4	2,732.22	3/4	3,095.77	3/4	3,459.20	3/4	3,742.18	3/4	3,995.81	3/4	4,249.44	3/4	4,503.08	3/4	4,700.30		
8	192.58	8	557.81	8	921.99	8	1,285.58	8	1,649.14	8	2,012.69	8	2,376.24	8	2,739.79	8	3,103.34	8	3,466.84	8	3,747.46	8	4,001.10	8	4,254.73	8	4,508.36	8	4,700.59		
1/4	200.19	1/4	565.42	1/4	929.56	1/4	1,293.16	1/4	1,656.71	1/4	2,020.26	1/4	2,383.81	1/4	2,747.37	1/4	3,110.92	1/4	3,474.09	1/4	3,752.75	1/4	4,006.38	1/4	4,260.01	1/4	4,513.64	1/4	4,700.88		
1/2	207.80	1/2	573.03	1/2	937.14	1/2	1,300.73	1/2	1,664.28	1/2	2,027.84	1/2	2,391.39	1/2	2,754.94	1/2	3,118.49	1/2	3,481.54	1/2	3,758.03	1/2	4,011.66	1/2	4,265.30	1/2	4,518.93	1/2	4,701.17		
3/4	215.41	3/4	580.64	3/4	944.72	3/4	1,308.31	3/4	1,671.86	3/4	2,035.41	3/4	2,398.96	3/4	2,762.51	3/4	3,126.07	3/4	3,488.64	3/4	3,763.32	3/4	4,016.95	3/4	4,270.58	3/4	4,524.21	3/4	4,701.17		
9	223.02	9	588.25	9	952.30	9	1,315.88	9	1,679.43	9	2,042.98	9	2,406.54	9	2,770.09	9	3,133.64	9	3,495.74	9	3,768.60	9	4,022.23	9	4,275.86	9	4,529.50	9	4,701.17		
1/4	230.62	1/4																													





**BARGE "HFL - 3077"**  
**HINES FURLONG LINE**  
 INNAGE TABLE

**SLOP**  
(FWD)

**BUREAU**  
**VERITAS**

HULL NO. 4756

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.
0	0	0	451	0	903	0	1,354	0	1,805	0	2,256	0	2,707	0	3,158	0	3,609	0	4,060	0	4,511	0	4,962	0	5,413	0	5,864	0	6,315	0	6,766
1/4	9	1/4	461	1/4	912	1/4	1,363	1/4	1,815	1/4	2,266	1/4	2,717	1/4	3,168	1/4	3,619	1/4	4,070	1/4	4,521	1/4	4,972	1/4	5,423	1/4	5,874	1/4	6,325	1/4	6,776
1/2	19	1/2	470	1/2	921	1/2	1,373	1/2	1,824	1/2	2,276	1/2	2,727	1/2	3,178	1/2	3,629	1/2	4,080	1/2	4,531	1/2	4,982	1/2	5,433	1/2	5,884	1/2	6,335	1/2	6,786
3/4	28	3/4	480	3/4	931	3/4	1,382	3/4	1,834	3/4	2,286	3/4	2,737	3/4	3,188	3/4	3,639	3/4	4,090	3/4	4,541	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
1	38	1	489	1	940	1	1,392	1	1,843	1	2,296	1	2,747	1	3,198	1	3,649	1	4,100	1	4,551	1	4,992	1	5,443	1	5,894	1	6,345	1	6,796
1/4	47	1/4	498	1/4	950	1/4	1,401	1/4	1,852	1/4	2,306	1/4	2,757	1/4	3,208	1/4	3,659	1/4	4,110	1/4	4,561	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	56	1/2	508	1/2	959	1/2	1,410	1/2	1,862	1/2	2,316	1/2	2,767	1/2	3,218	1/2	3,669	1/2	4,120	1/2	4,571	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	66	3/4	517	3/4	969	3/4	1,420	3/4	1,871	3/4	2,326	3/4	2,777	3/4	3,228	3/4	3,679	3/4	4,130	3/4	4,581	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
2	75	2	527	2	978	2	1,429	2	1,881	2	2,336	2	2,787	2	3,238	2	3,689	2	4,140	2	4,591	2	4,992	2	5,443	2	5,894	2	6,345	2	6,796
1/4	85	1/4	536	1/4	987	1/4	1,439	1/4	1,890	1/4	2,346	1/4	2,797	1/4	3,248	1/4	3,699	1/4	4,150	1/4	4,601	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	94	1/2	545	1/2	997	1/2	1,448	1/2	1,899	1/2	2,356	1/2	2,807	1/2	3,258	1/2	3,709	1/2	4,160	1/2	4,611	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	103	3/4	555	3/4	1,006	3/4	1,457	3/4	1,909	3/4	2,366	3/4	2,817	3/4	3,268	3/4	3,719	3/4	4,170	3/4	4,621	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
3	113	3	564	3	1,016	3	1,467	3	1,918	3	2,376	3	2,827	3	3,278	3	3,729	3	4,180	3	4,631	3	4,992	3	5,443	3	5,894	3	6,345	3	6,796
1/4	122	1/4	574	1/4	1,025	1/4	1,476	1/4	1,928	1/4	2,386	1/4	2,837	1/4	3,288	1/4	3,739	1/4	4,190	1/4	4,641	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	132	1/2	583	1/2	1,034	1/2	1,486	1/2	1,937	1/2	2,396	1/2	2,847	1/2	3,298	1/2	3,749	1/2	4,200	1/2	4,651	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	141	3/4	592	3/4	1,044	3/4	1,495	3/4	1,946	3/4	2,406	3/4	2,857	3/4	3,308	3/4	3,759	3/4	4,210	3/4	4,661	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
4	150	4	602	4	1,053	4	1,504	4	1,956	4	2,416	4	2,867	4	3,318	4	3,769	4	4,220	4	4,671	4	4,992	4	5,443	4	5,894	4	6,345	4	6,796
1/4	160	1/4	611	1/4	1,063	1/4	1,514	1/4	1,965	1/4	2,426	1/4	2,877	1/4	3,328	1/4	3,779	1/4	4,230	1/4	4,681	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	169	1/2	621	1/2	1,072	1/2	1,523	1/2	1,975	1/2	2,436	1/2	2,887	1/2	3,338	1/2	3,789	1/2	4,240	1/2	4,691	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	179	3/4	630	3/4	1,081	3/4	1,533	3/4	1,984	3/4	2,446	3/4	2,897	3/4	3,348	3/4	3,799	3/4	4,250	3/4	4,701	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
5	188	5	639	5	1,091	5	1,542	5	1,993	5	2,456	5	2,907	5	3,358	5	3,809	5	4,260	5	4,711	5	4,992	5	5,443	5	5,894	5	6,345	5	6,796
1/4	197	1/4	649	1/4	1,100	1/4	1,551	1/4	2,003	1/4	2,466	1/4	2,917	1/4	3,368	1/4	3,819	1/4	4,270	1/4	4,721	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	207	1/2	658	1/2	1,110	1/2	1,561	1/2	2,012	1/2	2,476	1/2	2,927	1/2	3,378	1/2	3,829	1/2	4,280	1/2	4,731	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	216	3/4	668	3/4	1,119	3/4	1,570	3/4	2,022	3/4	2,486	3/4	2,937	3/4	3,388	3/4	3,839	3/4	4,290	3/4	4,741	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
6	226	6	677	6	1,128	6	1,580	6	2,031	6	2,496	6	2,947	6	3,398	6	3,849	6	4,300	6	4,751	6	4,992	6	5,443	6	5,894	6	6,345	6	6,796
1/4	235	1/4	686	1/4	1,138	1/4	1,589	1/4	2,041	1/4	2,506	1/4	2,957	1/4	3,408	1/4	3,859	1/4	4,310	1/4	4,761	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	244	1/2	696	1/2	1,147	1/2	1,599	1/2	2,051	1/2	2,516	1/2	2,967	1/2	3,418	1/2	3,869	1/2	4,320	1/2	4,771	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	254	3/4	705	3/4	1,157	3/4	1,608	3/4	2,061	3/4	2,526	3/4	2,977	3/4	3,428	3/4	3,879	3/4	4,330	3/4	4,781	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
7	263	7	715	7	1,166	7	1,617	7	2,071	7	2,536	7	2,987	7	3,438	7	3,889	7	4,340	7	4,791	7	4,992	7	5,443	7	5,894	7	6,345	7	6,796
1/4	273	1/4	724	1/4	1,175	1/4	1,627	1/4	2,081	1/4	2,546	1/4	2,997	1/4	3,448	1/4	3,899	1/4	4,350	1/4	4,801	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	282	1/2	733	1/2	1,185	1/2	1,636	1/2	2,091	1/2	2,556	1/2	3,007	1/2	3,458	1/2	3,909	1/2	4,360	1/2	4,811	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	291	3/4	743	3/4	1,194	3/4	1,646	3/4	2,101	3/4	2,566	3/4	3,017	3/4	3,468	3/4	3,919	3/4	4,370	3/4	4,821	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
8	301	8	752	8	1,204	8	1,655	8	2,111	8	2,576	8	3,027	8	3,478	8	3,929	8	4,380	8	4,831	8	4,992	8	5,443	8	5,894	8	6,345	8	6,796
1/4	310	1/4	762	1/4	1,213	1/4	1,664	1/4	2,121	1/4	2,586	1/4	3,037	1/4	3,488	1/4	3,939	1/4	4,390	1/4	4,841	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	320	1/2	771	1/2	1,222	1/2	1,674	1/2	2,131	1/2	2,596	1/2	3,047	1/2	3,498	1/2	3,949	1/2	4,400	1/2	4,851	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	329	3/4	780	3/4	1,232	3/4	1,683	3/4	2,141	3/4	2,606	3/4	3,057	3/4	3,508	3/4	3,959	3/4	4,410	3/4	4,861	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
9	339	9	790	9	1,241	9	1,693	9	2,151	9	2,616	9	3,067	9	3,518	9	3,969	9	4,420	9	4,871	9	4,992	9	5,443	9	5,894	9	6,345	9	6,796
1/4	348	1/4	799	1/4	1,251	1/4	1,702	1/4	2,161	1/4	2,626	1/4	3,077	1/4	3,528	1/4	3,979	1/4	4,430	1/4	4,881	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	357	1/2	809	1/2	1,260	1/2	1,711	1/2	2,171	1/2	2,636	1/2	3,087	1/2	3,538	1/2	3,989	1/2	4,440	1/2	4,891	1/2	4,992	1/2	5,443	1/2	5,894	1/2	6,345	1/2	6,796
3/4	367	3/4	818	3/4	1,269	3/4	1,721	3/4	2,181	3/4	2,646	3/4	3,097	3/4	3,548	3/4	3,999	3/4	4,450	3/4	4,901	3/4	4,992	3/4	5,443	3/4	5,894	3/4	6,345	3/4	6,796
10	376	10	827	10	1,279	10	1,730	10	2,191	10	2,656	10	3,107	10	3,558	10	4,009	10	4,460	10	4,911	10	4,992	10	5,443	10	5,894	10	6,345	10	6,796
1/4	386	1/4	837	1/4	1,288	1/4	1,740	1/4	2,201	1/4	2,666	1/4	3,117	1/4	3,568	1/4	4,019	1/4	4,470	1/4	4,921	1/4	4,992	1/4	5,443	1/4	5,894	1/4	6,345	1/4	6,796
1/2	395	1/2	8																												



**BARGE "HFL - 3077"**  
**HINES FURLONG LINE**  
 INNAGE TABLE

**SLOP**  
(AFT)

**BUREAU**  
**VERITAS**

HULL NO. 4756

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.
0	0	0	451	0	903	0	1,354	0	1,805	0	2,256	0	2,707	0	3,158	0	3,609	0	4,060	0	4,511	0	4,962	0	5,413	0	5,864	0	6,315	0	6,766
1/4	9	1/4	461	1/4	912	1/4	1,363	1/4	1,815	1/4	2,266	1/4	2,717	1/4	3,168	1/4	3,619	1/4	4,070	1/4	4,521	1/4	4,972	1/4	5,423	1/4	5,874	1/4	6,325	1/4	6,776
1/2	19	1/2	470	1/2	921	1/2	1,373	1/2	1,824	1/2	2,275	1/2	2,726	1/2	3,177	1/2	3,628	1/2	4,079	1/2	4,530	1/2	4,981	1/2	5,432	1/2	5,883	1/2	6,334	1/2	6,785
3/4	28	3/4	480	3/4	931	3/4	1,382	3/4	1,834	3/4	2,284	3/4	2,735	3/4	3,186	3/4	3,637	3/4	4,088	3/4	4,539	3/4	4,990	3/4	5,441	3/4	5,892	3/4	6,344	3/4	6,795
1	38	1	489	1	940	1	1,392	1	1,843	1	2,294	1	2,745	1	3,196	1	3,647	1	4,098	1	4,549	1	4,999	1	5,451	1	5,902	1	6,354	1	6,805
1/4	47	1/4	498	1/4	950	1/4	1,401	1/4	1,852	1/4	2,304	1/4	2,755	1/4	3,206	1/4	3,657	1/4	4,108	1/4	4,559	1/4	5,009	1/4	5,461	1/4	5,912	1/4	6,364	1/4	6,815
1/2	56	1/2	508	1/2	959	1/2	1,410	1/2	1,862	1/2	2,314	1/2	2,765	1/2	3,216	1/2	3,667	1/2	4,118	1/2	4,569	1/2	5,019	1/2	5,471	1/2	5,922	1/2	6,374	1/2	6,825
3/4	66	3/4	517	3/4	969	3/4	1,420	3/4	1,871	3/4	2,324	3/4	2,775	3/4	3,226	3/4	3,677	3/4	4,128	3/4	4,579	3/4	5,029	3/4	5,481	3/4	5,932	3/4	6,384	3/4	6,835
2	75	2	527	2	978	2	1,429	2	1,881	2	2,334	2	2,785	2	3,236	2	3,687	2	4,138	2	4,589	2	5,039	2	5,491	2	5,942	2	6,394	2	6,845
1/4	85	1/4	536	1/4	987	1/4	1,439	1/4	1,890	1/4	2,344	1/4	2,795	1/4	3,246	1/4	3,697	1/4	4,148	1/4	4,599	1/4	5,049	1/4	5,501	1/4	5,952	1/4	6,404	1/4	6,855
1/2	94	1/2	545	1/2	997	1/2	1,448	1/2	1,899	1/2	2,354	1/2	2,805	1/2	3,256	1/2	3,707	1/2	4,158	1/2	4,609	1/2	5,059	1/2	5,511	1/2	5,962	1/2	6,414	1/2	6,865
3/4	103	3/4	555	3/4	1,006	3/4	1,457	3/4	1,909	3/4	2,364	3/4	2,815	3/4	3,266	3/4	3,717	3/4	4,168	3/4	4,619	3/4	5,069	3/4	5,521	3/4	5,972	3/4	6,424	3/4	6,875
3	113	3	564	3	1,016	3	1,467	3	1,918	3	2,374	3	2,825	3	3,276	3	3,727	3	4,178	3	4,629	3	5,079	3	5,531	3	5,982	3	6,434	3	6,885
1/4	122	1/4	574	1/4	1,025	1/4	1,476	1/4	1,928	1/4	2,384	1/4	2,835	1/4	3,286	1/4	3,737	1/4	4,188	1/4	4,639	1/4	5,089	1/4	5,541	1/4	5,992	1/4	6,444	1/4	6,895
1/2	132	1/2	583	1/2	1,034	1/2	1,486	1/2	1,937	1/2	2,394	1/2	2,845	1/2	3,296	1/2	3,747	1/2	4,198	1/2	4,649	1/2	5,099	1/2	5,551	1/2	6,002	1/2	6,454	1/2	6,905
3/4	141	3/4	592	3/4	1,044	3/4	1,495	3/4	1,946	3/4	2,404	3/4	2,855	3/4	3,306	3/4	3,757	3/4	4,208	3/4	4,659	3/4	5,109	3/4	5,561	3/4	6,012	3/4	6,464	3/4	6,915
4	150	4	602	4	1,053	4	1,504	4	1,956	4	2,414	4	2,865	4	3,316	4	3,767	4	4,218	4	4,669	4	5,119	4	5,571	4	6,022	4	6,474	4	6,925
1/4	160	1/4	611	1/4	1,063	1/4	1,514	1/4	1,965	1/4	2,424	1/4	2,875	1/4	3,326	1/4	3,777	1/4	4,228	1/4	4,679	1/4	5,129	1/4	5,581	1/4	6,032	1/4	6,484	1/4	6,935
1/2	169	1/2	621	1/2	1,072	1/2	1,523	1/2	1,975	1/2	2,434	1/2	2,885	1/2	3,336	1/2	3,787	1/2	4,238	1/2	4,689	1/2	5,139	1/2	5,591	1/2	6,042	1/2	6,494	1/2	6,945
3/4	179	3/4	630	3/4	1,081	3/4	1,533	3/4	1,984	3/4	2,444	3/4	2,895	3/4	3,346	3/4	3,797	3/4	4,248	3/4	4,699	3/4	5,149	3/4	5,601	3/4	6,052	3/4	6,504	3/4	6,955
5	188	5	639	5	1,091	5	1,542	5	1,993	5	2,454	5	2,905	5	3,356	5	3,807	5	4,258	5	4,709	5	5,159	5	5,611	5	6,062	5	6,514	5	6,965
1/4	197	1/4	649	1/4	1,100	1/4	1,551	1/4	2,003	1/4	2,464	1/4	2,915	1/4	3,366	1/4	3,817	1/4	4,268	1/4	4,719	1/4	5,169	1/4	5,621	1/4	6,072	1/4	6,524	1/4	6,975
1/2	207	1/2	658	1/2	1,110	1/2	1,561	1/2	2,012	1/2	2,474	1/2	2,925	1/2	3,376	1/2	3,827	1/2	4,278	1/2	4,729	1/2	5,179	1/2	5,631	1/2	6,082	1/2	6,534	1/2	6,985
3/4	216	3/4	668	3/4	1,119	3/4	1,570	3/4	2,022	3/4	2,484	3/4	2,935	3/4	3,386	3/4	3,837	3/4	4,288	3/4	4,739	3/4	5,189	3/4	5,641	3/4	6,092	3/4	6,544	3/4	6,995
6	226	6	677	6	1,128	6	1,580	6	2,031	6	2,494	6	2,945	6	3,396	6	3,847	6	4,298	6	4,749	6	5,199	6	5,651	6	6,102	6	6,554	6	7,005
1/4	235	1/4	686	1/4	1,138	1/4	1,589	1/4	2,041	1/4	2,504	1/4	2,955	1/4	3,406	1/4	3,857	1/4	4,308	1/4	4,759	1/4	5,209	1/4	5,661	1/4	6,112	1/4	6,564	1/4	7,015
1/2	244	1/2	696	1/2	1,147	1/2	1,599	1/2	2,051	1/2	2,514	1/2	2,965	1/2	3,416	1/2	3,867	1/2	4,318	1/2	4,769	1/2	5,219	1/2	5,671	1/2	6,122	1/2	6,574	1/2	7,025
3/4	254	3/4	705	3/4	1,157	3/4	1,608	3/4	2,061	3/4	2,524	3/4	2,975	3/4	3,426	3/4	3,877	3/4	4,328	3/4	4,779	3/4	5,229	3/4	5,681	3/4	6,132	3/4	6,584	3/4	7,035
7	263	7	715	7	1,166	7	1,617	7	2,071	7	2,534	7	2,985	7	3,436	7	3,887	7	4,338	7	4,789	7	5,239	7	5,691	7	6,142	7	6,594	7	7,045
1/4	273	1/4	724	1/4	1,175	1/4	1,627	1/4	2,081	1/4	2,544	1/4	2,995	1/4	3,446	1/4	3,897	1/4	4,348	1/4	4,799	1/4	5,249	1/4	5,701	1/4	6,152	1/4	6,604	1/4	7,055
1/2	282	1/2	733	1/2	1,185	1/2	1,636	1/2	2,091	1/2	2,554	1/2	3,005	1/2	3,456	1/2	3,907	1/2	4,358	1/2	4,809	1/2	5,259	1/2	5,711	1/2	6,162	1/2	6,614	1/2	7,065
3/4	291	3/4	743	3/4	1,194	3/4	1,646	3/4	2,101	3/4	2,564	3/4	3,015	3/4	3,466	3/4	3,917	3/4	4,368	3/4	4,819	3/4	5,269	3/4	5,721	3/4	6,172	3/4	6,624	3/4	7,075
8	301	8	752	8	1,204	8	1,655	8	2,111	8	2,574	8	3,025	8	3,476	8	3,927	8	4,378	8	4,829	8	5,279	8	5,731	8	6,182	8	6,634	8	7,085
1/4	310	1/4	762	1/4	1,213	1/4	1,664	1/4	2,121	1/4	2,584	1/4	3,035	1/4	3,486	1/4	3,937	1/4	4,388	1/4	4,839	1/4	5,289	1/4	5,741	1/4	6,192	1/4	6,644	1/4	7,095
1/2	320	1/2	771	1/2	1,222	1/2	1,674	1/2	2,131	1/2	2,594	1/2	3,045	1/2	3,496	1/2	3,947	1/2	4,398	1/2	4,849	1/2	5,299	1/2	5,751	1/2	6,202	1/2	6,654	1/2	7,105
3/4	329	3/4	780	3/4	1,232	3/4	1,683	3/4	2,141	3/4	2,604	3/4	3,055	3/4	3,506	3/4	3,957	3/4	4,408	3/4	4,859	3/4	5,309	3/4	5,761	3/4	6,212	3/4	6,664	3/4	7,115
9	339	9	790	9	1,241	9	1,693	9	2,151	9	2,614	9	3,065	9	3,516	9	3,967	9	4,418	9	4,869	9	5,319	9	5,771	9	6,222	9	6,674	9	7,125
1/4	348	1/4	799	1/4	1,251	1/4	1,702	1/4	2,161	1/4	2,624	1/4	3,075	1/4	3,526	1/4	3,977	1/4	4,428	1/4	4,879	1/4	5,329	1/4	5,781	1/4	6,232	1/4	6,684	1/4	7,135
1/2	357	1/2	809	1/2	1,260	1/2	1,711	1/2	2,171	1/2	2,634	1/2	3,085	1/2	3,536	1/2	3,987	1/2	4,438	1/2	4,889	1/2	5,339	1/2	5,791	1/2	6,242	1/2	6,694	1/2	7,145
3/4	367	3/4	818	3/4	1,269	3/4	1,721	3/4	2,181	3/4	2,644	3/4	3,095	3/4	3,546	3/4	3,997	3/4	4,448	3/4	4,899	3/4	5,349	3/4	5,801	3/4	6,252	3/4	6,704	3/4	7,155
10	376	10	827	10	1,279	10	1,730	10	2,191	10	2,654	10	3,105	10	3,556	10	4,007	10	4,458	10	4,909	10	5,359	10	5,811	10	6,262	10	6,714	10	7,165
1/4	386	1/4	837	1/4	1,288	1/4	1,740	1/4	2,201	1/4	2,664	1/4	3,115	1/4	3,566	1/4	4,017	1/4	4,468	1/4	4,919	1/4	5,369	1/4	5,821	1/4	6,272	1/4	6,724	1/4	7,175
1/2	395	1/2	8																												



**BUREAU  
VERITAS**

# BARGE "HFL - 3077" HINES FURLONG LINE

HULL NO. 4756

CORRECTION TABLE FOR TRIM AFT.

## FOR OUTAGE GAUGES ONLY

TRIM	TANKS NO. 1 PORT OR STAR.	TANKS NO. 2 PORT OR STAR.	TANKS NO. 3 PORT OR STAR.
0'-6"	(+) 0' - 1"	(+) 0' - 1"	(-) 0' - 1"
1'-0"	(+) 0' - 2"	(+) 0' - 2"	(-) 0' - 2"
1'-6"	(+) 0' - 3"	(+) 0' - 3"	(-) 0' - 3"
2'-0"	(+) 0' - 4"	(+) 0' - 4"	(-) 0' - 4"
2'-6"	(+) 0' - 5"	(+) 0' - 5"	(-) 0' - 5"
3'-0"	(+) 0' - 6"	(+) 0' - 6"	(-) 0' - 6"
3'-6"	(+) 0' - 7"	(+) 0' - 7"	(-) 0' - 7"
4'-0"	(+) 0' - 8"	(+) 0' - 8"	(-) 0' - 8"
4'-6"	(+) 0' - 9"	(+) 0' - 9"	(-) 0' - 9"
5'-0"	(+) 0' - 9 7/8"	(+) 0' - 10"	(-) 0' - 9 7/8"

NOTE: FOR TRIM FWD., REVERSE SIGNS.

NOTE: IF LIQUID SURFACE TOUCHES TANK BOTTOM OR DECK WHEN GAUGED,  
TRIM CORRECTIONS ARE NOT ACCURATE.

NOTE: FOR "INNAGE" GAUGES, REVERSE SIGNS.

**NOTE: FOR 2" DIAMETER BALL VALVE ONLY (CLOSED GAUGING)**

DATE: 05/19/21

BY:

  
BUREAU VERITAS NORTH AMERICA



**BUREAU  
VERITAS**

## BARGE "HFL - 3077" HINES FURLONG LINE

### OUTAGE TABLE

## 1 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4756

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		15 FT		16 FT		17 FT		
0	0	5,012.97	0	4,656.79	0	4,299.10	0	3,941.40	0	3,583.70	0	3,226.01	0	2,868.31	0	2,510.62	0	2,152.92	0	1,795.22	0	1,437.63	0	1,079.83	0	722.14	0	363.93	0	35.87		
1/4	1/4	5,005.90	3/4	4,649.34	1/4	4,291.64	1/4	3,933.95	1/4	3,576.25	1/4	3,218.56	1/4	2,860.86	1/4	2,503.16	3/4	2,145.47	1/4	1,787.77	1/4	1,430.08	1/4	1,072.38	1/4	714.68	1/4	356.60	1/4	31.26		
1/2	1/2	4,998.82	1/2	4,641.89	1/2	4,284.19	1/2	3,926.50	1/2	3,568.80	1/2	3,211.10	1/2	2,853.41	1/2	2,495.71	1/2	2,138.02	1/2	1,780.32	1/2	1,422.62	1/2	1,064.93	1/2	707.23	1/2	349.27	1/2	26.64		
3/4	3/4	4,991.75	3/4	4,634.44	3/4	4,276.74	3/4	3,919.04	3/4	3,561.35	3/4	3,203.65	3/4	2,845.96	3/4	2,488.26	3/4	2,130.56	3/4	1,772.87	3/4	1,415.17	3/4	1,057.48	3/4	699.78	3/4	341.94	3/4	22.03		
1	1	4,984.68	1	4,626.98	1	4,269.29	1	3,911.59	1	3,553.90	1	3,196.20	1	2,838.50	1	2,480.81	1	2,123.11	1	1,765.42	1	1,407.72	1	1,050.02	1	692.33	1	334.62	1	17.42		
1/4	1/4	4,977.23	1/4	4,619.53	1/4	4,261.84	1/4	3,904.14	1/4	3,546.44	1/4	3,188.75	1/4	2,831.05	1/4	2,473.36	1/4	2,115.66	1/4	1,757.96	1/4	1,400.27	1/4	1,042.57	1/4	684.88	1/4	327.41	1/4	14.41		
1/2	1/2	4,969.78	1/2	4,612.08	1/2	4,254.38	1/2	3,896.69	1/2	3,538.99	1/2	3,181.30	1/2	2,823.60	1/2	2,465.90	1/2	2,108.21	1/2	1,750.51	1/2	1,392.82	1/2	1,035.12	1/2	677.42	1/2	320.21	1/2	11.41		
3/4	3/4	4,962.32	3/4	4,604.63	3/4	4,246.93	3/4	3,889.24	3/4	3,531.54	3/4	3,173.84	3/4	2,816.15	3/4	2,458.45	3/4	2,100.76	3/4	1,743.06	3/4	1,385.36	3/4	1,027.67	3/4	669.97	3/4	313.00	3/4	8.40		
2	2	4,954.87	2	4,597.18	2	4,239.48	2	3,881.78	2	3,524.09	2	3,166.39	2	2,808.70	2	2,451.00	2	2,093.30	2	1,735.61	2	1,377.91	2	1,020.22	2	662.52	2	305.80	2	5.40		
1/4	1/4	4,947.42	1/4	4,589.72	1/4	4,232.03	1/4	3,874.33	1/4	3,516.64	1/4	3,158.94	1/4	2,801.24	1/4	2,443.55	1/4	2,085.85	1/4	1,728.16	1/4	1,370.46	1/4	1,012.76	1/4	655.07	1/4	298.60	1/4	4.12		
1/2	1/2	4,939.97	1/2	4,582.27	1/2	4,224.58	1/2	3,866.88	1/2	3,509.18	1/2	3,151.49	1/2	2,793.79	1/2	2,436.10	1/2	2,078.40	1/2	1,720.70	1/2	1,363.01	1/2	1,005.31	1/2	647.62	1/2	291.39	1/2	2.84		
3/4	3/4	4,932.52	3/4	4,574.82	3/4	4,217.12	3/4	3,859.43	3/4	3,501.73	3/4	3,144.04	3/4	2,786.34	3/4	2,428.64	3/4	2,070.95	3/4	1,713.25	3/4	1,355.56	3/4	997.86	3/4	640.16	3/4	284.19	3/4	* 1.56		
3	3	4,925.06	3	4,567.37	3	4,209.67	3	3,851.98	3	3,494.28	3	3,136.58	3	2,778.89	3	2,421.19	3	2,063.50	3	1,705.80	3	1,348.10	3	990.41	3	632.71	3	276.98	3			
1/4	1/4	4,917.61	1/4	4,559.92	1/4	4,202.22	1/4	3,844.52	1/4	3,486.83	1/4	3,129.13	1/4	2,771.44	1/4	2,413.74	1/4	2,056.04	1/4	1,698.35	1/4	1,340.65	1/4	982.96	1/4	625.26	1/4	269.91	1/4			
1/2	1/2	4,910.16	1/2	4,552.46	1/2	4,194.77	1/2	3,837.07	1/2	3,479.38	1/2	3,121.68	1/2	2,763.98	1/2	2,406.29	1/2	2,048.59	1/2	1,690.90	1/2	1,333.20	1/2	975.50	1/2	617.81	1/2	262.83	1/2			
3/4	3/4	4,902.71	3/4	4,545.01	3/4	4,187.32	3/4	3,829.62	3/4	3,471.92	3/4	3,114.23	3/4	2,756.53	3/4	2,398.84	3/4	2,041.14	3/4	1,683.44	3/4	1,325.75	3/4	968.05	3/4	610.36	3/4	255.76	3/4			
4	4	4,895.26	4	4,537.56	4	4,179.86	4	3,822.17	4	3,464.47	4	3,106.77	4	2,748.08	4	2,391.38	4	2,033.69	4	1,675.99	4	1,318.30	4	960.60	4	602.90	4	248.68	4			
1/4	1/4	4,887.80	1/4	4,530.11	1/4	4,172.41	1/4	3,814.72	1/4	3,457.02	1/4	3,099.32	1/4	2,741.63	1/4	2,383.93	1/4	2,026.24	1/4	1,668.54	1/4	1,310.84	1/4	953.15	1/4	595.45	1/4	241.60	1/4			
1/2	1/2	4,880.35	1/2	4,522.66	1/2	4,164.96	1/2	3,807.26	1/2	3,449.57	1/2	3,091.87	1/2	2,734.18	1/2	2,376.48	1/2	2,018.78	1/2	1,661.09	1/2	1,303.39	1/2	945.70	1/2	588.00	1/2	234.53	1/2			
3/4	3/4	4,872.90	3/4	4,515.20	3/4	4,157.51	3/4	3,799.81	3/4	3,442.12	3/4	3,084.42	3/4	2,726.72	3/4	2,369.03	3/4	2,011.33	3/4	1,653.64	3/4	1,295.94	3/4	938.24	3/4	580.55	3/4	227.45	3/4			
5	5	4,865.45	5	4,507.75	5	4,150.06	5	3,792.36	5	3,434.66	5	3,076.97	5	2,719.27	5	2,361.58	5	2,003.88	5	1,646.18	5	1,288.49	5	930.79	5	573.10	5	220.38	5			
1/4	1/4	4,858.00	1/4	4,500.30	1/4	4,142.60	1/4	3,784.91	1/4	3,427.21	1/4	3,069.52	1/4	2,711.82	1/4	2,354.12	1/4	1,996.43	1/4	1,638.73	1/4	1,281.04	1/4	923.34	1/4	565.64	1/4	213.42	1/4			
1/2	1/2	4,850.54	1/2	4,492.85	1/2	4,135.15	1/2	3,777.46	1/2	3,419.76	1/2	3,062.06	1/2	2,704.37	1/2	2,346.67	1/2	1,988.98	1/2	1,631.28	1/2	1,273.58	1/2	915.89	1/2	558.19	1/2	206.47	1/2			
3/4	3/4	4,843.09	3/4	4,485.40	3/4	4,127.70	3/4	3,770.00	3/4	3,412.31	3/4	3,054.61	3/4	2,696.92	3/4	2,339.22	3/4	1,981.52	3/4	1,623.83	3/4	1,266.13	3/4	908.44	3/4	550.74	3/4	199.52	3/4			
6	6	4,835.64	6	4,477.94	6	4,120.25	6	3,762.55	6	3,404.86	6	3,047.16	6	2,689.46	6	2,331.77	6	1,974.07	6	1,616.38	6	1,258.68	6	900.98	6	543.29	6	192.57	6			
1/4	1/4	5,087.74	1/4	4,828.19	1/4	4,470.49	1/4	4,112.80	1/4	3,755.10	1/4	3,397.40	1/4	3,039.71	1/4	2,682.01	1/4	2,324.32	1/4	1,966.62	1/4	1,608.92	1/4	1,251.23	1/4	893.53	1/4	535.84	1/4	185.62	1/4	
1/2	1/2	5,087.32	1/2	4,820.74	1/2	4,463.04	1/2	4,105.34	1/2	3,747.65	1/2	3,389.95	1/2	3,032.26	1/2	2,674.56	1/2	2,316.86	1/2	1,959.17	1/2	1,601.47	1/2	1,243.78	1/2	886.08	1/2	528.38	1/2	178.66	1/2	
3/4	3/4	5,086.90	3/4	4,813.28	3/4	4,455.59	3/4	4,097.89	3/4	3,740.20	3/4	3,382.50	3/4	3,024.80	3/4	2,667.11	3/4	2,309.41	3/4	1,951.72	3/4	1,594.02	3/4	1,236.32	3/4	878.63	3/4	520.93	3/4	171.71	3/4	
7	7	5,086.49	7	4,805.83	7	4,448.14	7	4,090.44	7	3,732.74	7	3,375.05	7	2,997.35	7	2,639.66	7	2,281.96	7	1,924.26	7	1,566.57	7	1,208.87	7	871.18	7	513.48	7	164.76	7	
1/4	1/4	5,085.08	1/4	4,798.38	1/4	4,440.68	1/4	4,082.99	1/4	3,725.29	1/4	3,367.60	1/4	3,009.90	1/4	2,652.20	1/4	2,294.51	1/4	1,936.81	1/4	1,579.12	1/4	1,221.42	1/4	863.72	1/4	505.90	1/4	158.17	1/4	
1/2	1/2	5,083.66	1/2	4,790.93	1/2	4,433.23	1/2	4,075.54	1/2	3,717.84	1/2	3,360.14	1/2	3,002.45	1/2	2,644.75	1/2	2,287.06	1/2	1,929.36	1/2	1,571.66	1/2	1,213.97	1/2	856.27	1/2	498.32	1/2	151.59	1/2	
3/4	3/4	5,082.25	3/4	4,783.48	3/4	4,425.78	3/4	4,068.08	3/4	3,710.39	3/4	3,352.69	3/4	2,995.00	3/4	2,637.30	3/4	2,279.60	3/4	1,921.91	3/4	1,564.21	3/4	1,206.52	3/4	848.82	3/4	490.75	3/4	145.00	3/4	
8	8	5,080.84	8	4,776.02	8	4,418.33	8	4,060.63	8	3,702.94	8	3,345.24	8	2,987.54	8	2,629.85	8	2,272.15	8	1,914.46	8	1,556.76	8	1,199.06	8	841.37	8	483.17	8	138.42	8	
1/4	1/4	5,078.29	1/4	4,768.57	1/4	4,410.88	1/4	4,053.18	1/4	3,695.48	1/4	3,337.79	1/4	2,980.09	1/4	2,622.40	1/4	2,264.70	1/4	1,907.00	1/4	1,549.31	1/4	1,191.61	1/4	833.92	1/4	475.59	1/4	131.83	1/4	
1/2	1/2	5,075.75	1/2	4,761.12	1/2	4,403.42	1/2	4,045.73	1/2	3,688.03	1/2	3,330.34	1/2	2,972.64	1/2	2,614.94	1/2	2,257.25	1/2	1,899.55	1/2	1,541.86	1/2	1,184.16	1/2	826.46	1/2	468.01	1/2	125.24	1/2	
3/4	3/4	5,073.20	3/4	4,753.67	3/4	4,395.97	3/4	4,038.28	3/4	3,680.58	3/4	3,322.88	3/4	2,965.19	3/4	2,607.49	3/4	2,249.80	3/4	1,892.10	3/4	1,534.40	3/4	1,176.71	3/4	819.01	3/4	460.43	3/4	118.66	3/4	
9	9	5,070.66	9	4,746.22	9	4,388.52	9	4,030.82	9	3,673.13	9	3,315.43	9	2,957.74	9	2,600.04	9	2,242.34	9	1,884.65	9	1,526.95	9	1,169.26	9	811.56	9	452.86	9	112.07	9	



**BUREAU  
VERITAS**

## BARGE "HFL - 3077" HINES FURLONG LINE

### OUTAGE TABLE

## 2 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4756

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		15 FT		16 FT		17 FT	
0	0	5,061.14	0	4,710.46	0	4,350.63	0	3,990.05	0	3,629.48	0	3,268.90	0	2,908.32	0	2,547.75	0	2,187.17	0	1,826.60	0	1,466.02	0	1,105.44	0	744.87	0	384.29	0	36.27	
1/4	1/4	5,044.53	3/4	4,703.32	1/4	4,343.12	1/4	3,982.54	1/4	3,621.96	1/4	3,261.39	1/4	2,900.81	1/4	2,540.24	3/4	2,179.66	1/4	1,819.08	1/4	1,458.51	1/4	1,097.93	1/4	737.36	1/4	376.78	1/4	31.38	
1/2	1/2	5,037.92	1/2	4,696.18	1/2	4,335.60	1/2	3,975.03	1/2	3,614.45	1/2	3,253.88	1/2	2,893.30	1/2	2,532.72	1/2	2,172.15	1/2	1,811.57	1/2	1,451.00	1/2	1,090.42	1/2	729.84	1/2	369.27	1/2	26.48	
3/4	3/4	5,031.32	3/4	4,688.67	3/4	4,328.09	3/4	3,967.52	3/4	3,606.94	3/4	3,246.36	3/4	2,885.79	3/4	2,525.21	3/4	2,164.64	3/4	1,804.06	3/4	1,443.48	3/4	1,082.91	3/4	722.33	3/4	361.76	3/4	21.59	
1	1	5,024.71	1	4,681.16	1	4,320.58	1	3,960.00	1	3,599.43	1	3,238.85	1	2,878.28	1	2,517.70	1	2,157.12	1	1,796.55	1	1,435.97	1	1,075.40	1	714.82	1	354.24	1	16.70	
1/4	1/4	5,017.57	1/4	4,673.64	1/4	4,313.07	1/4	3,952.49	1/4	3,591.92	1/4	3,231.34	1/4	2,870.76	1/4	2,510.19	1/4	2,149.61	1/4	1,789.04	1/4	1,428.46	1/4	1,067.88	1/4	707.31	1/4	346.73	1/4	13.62	
1/2	1/2	5,010.43	1/2	4,666.13	1/2	4,305.56	1/2	3,944.98	1/2	3,584.40	1/2	3,223.83	1/2	2,863.25	1/2	2,502.68	1/2	2,142.10	1/2	1,781.52	1/2	1,420.95	1/2	1,060.37	1/2	699.80	1/2	339.22	1/2	10.54	
3/4	3/4	5,003.29	3/4	4,658.82	3/4	4,298.04	3/4	3,937.47	3/4	3,576.89	3/4	3,216.32	3/4	2,855.74	3/4	2,495.16	3/4	2,134.59	3/4	1,774.01	3/4	1,413.44	3/4	1,052.86	3/4	692.28	3/4	331.71	3/4	7.46	
2	2	4,996.14	2	4,651.11	2	4,290.53	2	3,929.96	2	3,569.38	2	3,208.80	2	2,848.23	2	2,487.65	2	2,127.08	2	1,766.50	2	1,405.92	2	1,045.35	2	684.77	2	324.20	2	4.38	
1/4	1/4	4,989.00	1/4	4,643.60	1/4	4,283.02	1/4	3,922.44	1/4	3,561.87	1/4	3,201.29	1/4	2,840.72	1/4	2,480.14	1/4	2,119.56	1/4	1,758.99	1/4	1,398.41	1/4	1,037.84	1/4	677.26	1/4	316.68	1/4	3.35	
1/2	1/2	4,981.86	1/2	4,636.08	1/2	4,275.51	1/2	3,914.93	1/2	3,554.36	1/2	3,193.78	1/2	2,833.20	1/2	2,472.63	1/2	2,112.05	1/2	1,751.48	1/2	1,390.90	1/2	1,030.32	1/2	669.75	1/2	309.17	1/2	2.33	
3/4	3/4	4,974.72	3/4	4,628.57	3/4	4,268.00	3/4	3,907.42	3/4	3,546.84	3/4	3,186.27	3/4	2,825.69	3/4	2,465.12	3/4	2,104.54	3/4	1,743.96	3/4	1,383.39	3/4	1,022.81	3/4	662.24	3/4	301.66	3/4	* 1.30	
3	3	4,967.58	3	4,621.06	3	4,260.48	3	3,899.91	3	3,539.33	3	3,178.76	3	2,818.18	3	2,457.60	3	2,097.03	3	1,736.45	3	1,375.88	3	1,015.30	3	654.72	3	294.15	3		
1/4	1/4	4,960.43	1/4	4,614.55	1/4	4,252.97	1/4	3,892.40	1/4	3,531.82	1/4	3,171.24	1/4	2,810.67	1/4	2,450.09	1/4	2,089.52	1/4	1,728.94	1/4	1,368.36	1/4	1,007.79	1/4	647.21	1/4	286.64	1/4		
1/2	1/2	4,953.29	1/2	4,606.04	1/2	4,245.46	1/2	3,884.88	1/2	3,524.31	1/2	3,163.73	1/2	2,803.16	1/2	2,442.58	1/2	2,082.00	1/2	1,721.43	1/2	1,360.85	1/2	1,000.28	1/2	639.70	1/2	279.12	1/2		
3/4	3/4	4,946.15	3/4	4,598.52	3/4	4,237.95	3/4	3,877.37	3/4	3,516.80	3/4	3,156.22	3/4	2,795.64	3/4	2,435.07	3/4	2,074.49	3/4	1,713.92	3/4	1,353.34	3/4	992.76	3/4	632.19	3/4	271.61	3/4		
4	4	4,939.01	4	4,591.01	4	4,230.44	4	3,869.86	4	3,509.28	4	3,148.71	4	2,788.13	4	2,427.56	4	2,066.98	4	1,706.40	4	1,345.83	4	985.25	4	624.68	4	264.10	4		
1/4	1/4	4,931.87	1/4	4,583.50	1/4	4,222.92	1/4	3,862.35	1/4	3,501.77	1/4	3,141.20	1/4	2,780.62	1/4	2,420.04	1/4	2,059.47	1/4	1,698.89	1/4	1,338.32	1/4	977.74	1/4	617.16	1/4	256.59	1/4		
1/2	1/2	4,924.72	1/2	4,575.99	1/2	4,215.41	1/2	3,854.84	1/2	3,494.26	1/2	3,133.68	1/2	2,773.11	1/2	2,412.53	1/2	2,051.96	1/2	1,691.38	1/2	1,330.80	1/2	970.23	1/2	609.65	1/2	249.08	1/2		
3/4	3/4	4,917.58	3/4	4,568.48	3/4	4,207.90	3/4	3,847.32	3/4	3,486.75	3/4	3,126.17	3/4	2,765.60	3/4	2,405.02	3/4	2,044.44	3/4	1,683.87	3/4	1,323.29	3/4	962.72	3/4	602.14	3/4	241.56	3/4		
5	5	4,910.44	5	4,560.96	5	4,200.39	5	3,839.81	5	3,479.24	5	3,118.66	5	2,758.08	5	2,397.51	5	2,036.93	5	1,676.36	5	1,315.78	5	955.20	5	594.63	5	234.05	5		
1/4	1/4	4,903.30	1/4	4,553.45	1/4	4,192.88	1/4	3,832.30	1/4	3,471.72	1/4	3,111.15	1/4	2,750.57	1/4	2,390.00	1/4	2,029.42	1/4	1,668.84	1/4	1,308.27	1/4	947.69	1/4	587.12	1/4	226.54	1/4		
1/2	1/2	4,896.16	1/2	4,545.94	1/2	4,185.36	1/2	3,824.79	1/2	3,464.21	1/2	3,103.64	1/2	2,743.06	1/2	2,382.48	1/2	2,021.91	1/2	1,661.33	1/2	1,300.76	1/2	940.18	1/2	579.60	1/2	219.03	1/2		
3/4	3/4	4,889.01	3/4	4,538.43	3/4	4,177.85	3/4	3,817.28	3/4	3,456.70	3/4	3,096.12	3/4	2,735.55	3/4	2,374.97	3/4	2,014.40	3/4	1,653.82	3/4	1,293.24	3/4	932.67	3/4	572.09	3/4	211.52	3/4		
6	6	4,881.87	6	4,530.92	6	4,170.34	6	3,809.76	6	3,449.19	6	3,088.61	6	2,728.04	6	2,367.46	6	2,006.88	6	1,646.31	6	1,285.73	6	925.16	6	564.58	6	204.00	6		
1/4	1/4	5,121.53	1/4	4,874.73	1/4	4,523.40	1/4	4,162.83	1/4	3,802.25	1/4	3,441.68	1/4	3,081.10	1/4	2,720.52	1/4	2,359.95	1/4	1,638.80	1/4	1,278.22	1/4	917.64	1/4	557.07	1/4	196.49	1/4		
1/2	1/2	5,121.13	1/2	4,867.59	1/2	4,515.89	1/2	4,155.32	1/2	3,794.74	1/2	3,434.16	1/2	3,073.59	1/2	2,713.01	1/2	2,352.44	1/2	1,631.28	1/2	1,270.71	1/2	910.13	1/2	549.56	1/2	188.98	1/2		
3/4	3/4	5,120.73	3/4	4,860.45	3/4	4,508.38	3/4	4,147.80	3/4	3,787.23	3/4	3,426.65	3/4	3,066.08	3/4	2,705.50	3/4	2,344.92	3/4	1,624.35	3/4	1,263.20	3/4	902.62	3/4	542.04	3/4	181.47	3/4		
7	7	5,120.34	7	4,853.30	7	4,500.87	7	4,140.29	7	3,779.72	7	3,419.14	7	3,058.56	7	2,697.99	7	2,337.41	7	1,617.84	7	1,256.68	7	895.11	7	534.53	7	173.96	7		
1/4	1/4	5,119.01	1/4	4,846.16	1/4	4,493.36	1/4	4,132.78	1/4	3,772.20	1/4	3,411.63	1/4	3,051.05	1/4	2,690.48	1/4	2,329.90	1/4	1,609.32	1/4	1,248.17	1/4	887.60	1/4	527.02	1/4	167.02	1/4		
1/2	1/2	5,117.68	1/2	4,839.02	1/2	4,485.84	1/2	4,125.27	1/2	3,764.69	1/2	3,404.12	1/2	3,043.54	1/2	2,682.96	1/2	2,322.39	1/2	1,591.81	1/2	1,240.66	1/2	880.08	1/2	519.51	1/2	160.09	1/2		
3/4	3/4	5,116.35	3/4	4,831.88	3/4	4,478.33	3/4	4,117.76	3/4	3,757.18	3/4	3,396.60	3/4	3,036.03	3/4	2,675.45	3/4	2,314.88	3/4	1,584.30	3/4	1,233.15	3/4	872.57	3/4	512.00	3/4	153.15	3/4		
8	8	5,115.02	8	4,824.74	8	4,470.82	8	4,110.24	8	3,749.67	8	3,389.09	8	3,028.52	8	2,667.94	8	2,307.36	8	1,576.79	8	1,226.64	8	865.06	8	504.48	8	146.22	8		
1/4	1/4	5,112.63	1/4	4,817.59	1/4	4,463.31	1/4	4,102.73	1/4	3,742.16	1/4	3,381.58	1/4	3,021.00	1/4	2,660.43	1/4	2,299.85	1/4	1,569.28	1/4	1,218.12	1/4	857.55	1/4	496.97	1/4	139.29	1/4		
1/2	1/2	5,110.24	1/2	4,810.45	1/2	4,455.80	1/2	4,095.22	1/2	3,734.64	1/2	3,374.07	1/2	3,013.49	1/2	2,652.92	1/2	2,292.34	1/2	1,561.76	1/2	1,210.61	1/2	850.04	1/2	489.46	1/2	132.35	1/2		
3/4	3/4	5,107.84	3/4	4,803.31	3/4	4,448.28	3/4	4,087.71	3/4	3,727.13	3/4	3,366.56	3/4	3,005.98	3/4	2,645.40	3/4	2,284.83	3/4	1,554.25	3/4	1,203.10	3/4	842.52	3/4	481.95	3/4	125.42	3/4		
9	9	5,105.45	9	4,796.17	9	4,440.77	9	4,080.20	9	3,719.62	9	3,355.04	9	2,998.47	9	2,637.89	9	2,277.32	9	1,546.74	9	1,195.59	9	835.01	9	474.44	9	118.48	9		
1/4	1/4	5,101.99	1/4	4,789.03	1/4	4,433.26	1/4	4,072.68	1/4	3,712.11	1/4	3,351.53	1/4	2,990.96	1/4	2,630.38	1/4	2,269.80	1/4	1,540.23	1/4	1,188.0									



**BUREAU  
VERITAS**

# BARGE "HFL - 3077" HINES FURLONG LINE

## OUTAGE TABLE

## 3 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4756

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		15 FT		16 FT		17 FT		
0	0	4,649.46	0	4,397.40	0	4,143.76	0	3,890.13	0	3,636.50	0	3,307.84	0	2,944.29	0	2,580.74	0	2,217.19	0	1,853.63	0	1,490.08	0	1,126.53	0	762.87	0	398.02	0	38.68		
1/4	1/4	4,644.57	3/4	4,392.11	1/4	4,138.48	1/4	3,884.85	1/4	3,631.22	1/2	3,290.27	1/4	2,936.72	1/4	2,573.16	3/4	2,209.61	1/4	1,846.06	1/4	1,482.51	1/4	1,118.96	1/4	755.29	1/4	390.41	1/4	33.48		
1/2	1/2	4,639.67	1/2	4,386.83	1/2	4,133.20	1/2	3,879.56	1/2	3,625.93	1/2	3,292.69	1/2	2,929.14	1/2	2,565.59	1/2	2,202.04	1/2	1,838.49	1/2	1,474.93	1/2	1,111.38	1/2	747.72	1/2	382.80	1/2	28.29		
3/4	3/4	4,634.78	3/4	4,381.54	3/4	4,127.91	3/4	3,874.28	3/4	3,620.52	3/4	3,285.12	3/4	2,921.57	3/4	2,558.02	3/4	2,194.46	3/4	1,830.91	3/4	1,467.36	3/4	1,103.81	3/4	740.14	3/4	375.20	3/4	23.10		
1	1	4,629.89	1	4,376.26	1	4,122.63	1	3,869.00	1	3,615.11	1	3,277.55	1	2,913.99	1	2,550.44	1	2,186.89	1	1,823.34	1	1,459.79	1	1,096.23	1	732.56	1	367.59	1	17.91		
1/4	1/4	4,624.61	1/4	4,370.98	1/4	4,117.34	1/4	3,863.71	1/4	3,609.70	1/4	3,269.97	1/4	2,906.42	1/4	2,542.87	1/4	2,179.32	1/4	1,815.76	1/4	1,452.21	1/4	1,088.66	1/4	724.99	1/4	359.98	1/4	14.58		
1/2	1/2	4,619.32	1/2	4,365.69	1/2	4,112.06	1/2	3,858.43	1/2	3,603.98	1/2	3,262.40	1/2	2,898.85	1/2	2,535.29	1/2	2,171.74	1/2	1,808.19	1/2	1,444.64	1/2	1,081.09	1/2	717.41	1/2	352.37	1/2	11.25		
3/4	3/4	4,614.04	3/4	4,360.41	3/4	4,106.78	3/4	3,853.14	3/4	3,598.26	3/4	3,254.82	3/4	2,891.27	3/4	2,527.72	3/4	2,164.17	3/4	1,800.62	3/4	1,437.06	3/4	1,073.51	3/4	709.83	3/4	344.76	3/4	7.92		
2	2	4,608.76	2	4,355.12	2	4,101.49	2	3,847.86	2	3,592.55	2	3,247.25	2	2,883.70	2	2,520.15	2	2,156.59	2	1,793.04	2	1,429.49	2	1,065.94	2	702.25	2	337.15	2	4.59		
1/4	1/4	4,603.47	1/4	4,349.84	1/4	4,096.21	1/4	3,842.58	1/4	3,586.83	1/4	3,239.68	1/4	2,876.12	1/4	2,512.57	1/4	2,149.02	1/4	1,785.47	1/4	1,421.92	1/4	1,058.36	1/4	694.68	1/4	329.54	1/4	3.51		
1/2	1/2	4,598.19	1/2	4,344.56	1/2	4,090.92	1/2	3,837.29	1/2	3,580.77	1/2	3,232.10	1/2	2,868.55	1/2	2,505.00	1/2	2,141.45	1/2	1,777.89	1/2	1,414.34	1/2	1,050.79	1/2	687.10	1/2	321.93	1/2	2.44		
3/4	3/4	4,592.90	3/4	4,339.27	3/4	4,085.64	3/4	3,832.01	3/4	3,574.71	3/4	3,224.53	3/4	2,860.98	3/4	2,497.42	3/4	2,133.87	3/4	1,770.32	3/4	1,406.77	3/4	1,043.22	3/4	679.52	3/4	314.32	3/4	* 1.36		
3	3	4,587.62	3	4,333.99	3	4,080.36	3	3,826.72	3	3,568.64	3	3,216.95	3	2,853.40	3	2,489.85	3	2,126.30	3	1,762.75	3	1,399.19	3	1,035.64	3	671.94	3	306.71	3			
1/4	1/4	4,582.34	1/4	4,328.70	1/4	4,075.07	1/4	3,821.44	1/4	3,562.58	1/4	3,209.38	1/4	2,845.83	1/4	2,482.28	1/4	2,118.72	1/4	1,755.17	1/4	1,391.62	1/4	1,028.07	1/4	664.34	1/4	299.11	1/4			
1/2	1/2	4,577.05	1/2	4,323.42	1/2	4,069.79	1/2	3,816.16	1/2	3,556.17	1/2	3,201.81	1/2	2,838.25	1/2	2,474.70	1/2	2,111.15	1/2	1,747.60	1/2	1,384.05	1/2	1,020.49	1/2	656.73	1/2	291.50	1/2			
3/4	3/4	4,571.77	3/4	4,318.14	3/4	4,064.50	3/4	3,810.87	3/4	3,549.77	3/4	3,194.23	3/4	2,830.68	3/4	2,467.13	3/4	2,103.58	3/4	1,740.02	3/4	1,376.47	3/4	1,012.91	3/4	649.12	3/4	283.89	3/4			
4	4	4,566.48	4	4,312.85	4	4,059.22	4	3,805.59	4	3,543.36	4	3,186.66	4	2,823.11	4	2,459.55	4	2,096.00	4	1,732.45	4	1,368.90	4	1,005.33	4	641.51	4	276.28	4			
1/4	1/4	4,561.20	1/4	4,307.57	1/4	4,053.94	1/4	3,800.30	1/4	3,536.95	1/4	3,179.08	1/4	2,815.53	1/4	2,451.98	1/4	2,088.43	1/4	1,724.88	1/4	1,361.32	1/4	1,000.00	1/4	633.90	1/4	268.67	1/4			
1/2	1/2	4,555.92	1/2	4,302.28	1/2	4,048.65	1/2	3,795.02	1/2	3,530.20	1/2	3,171.51	1/2	2,807.96	1/2	2,444.41	1/2	2,080.85	1/2	1,717.30	1/2	1,353.75	1/2	990.18	1/2	626.29	1/2	261.06	1/2			
3/4	3/4	4,550.63	3/4	4,297.00	3/4	4,043.37	3/4	3,789.74	3/4	3,523.44	3/4	3,163.94	3/4	2,800.38	3/4	2,436.83	3/4	2,073.28	3/4	1,709.73	3/4	1,346.18	3/4	982.60	3/4	618.68	3/4	253.45	3/4			
5	5	4,545.35	5	4,291.72	5	4,038.08	5	3,784.45	5	3,516.69	5	3,156.36	5	2,792.81	5	2,429.26	5	2,065.71	5	1,702.15	5	1,338.60	5	975.03	5	611.07	5	245.84	5			
1/4	1/4	4,540.06	1/4	4,286.43	1/4	4,032.80	1/4	3,779.17	1/4	3,509.94	1/4	3,148.79	1/4	2,785.24	1/4	2,421.68	1/4	2,058.13	1/4	1,694.58	1/4	1,331.03	1/4	967.45	1/4	603.47	1/4	238.23	1/4			
1/2	1/2	4,534.78	1/2	4,281.15	1/2	4,027.52	1/2	3,773.88	1/2	3,502.84	1/2	3,141.21	1/2	2,777.66	1/2	2,414.11	1/2	2,050.56	1/2	1,687.01	1/2	1,323.45	1/2	959.87	1/2	595.86	1/2	230.62	1/2			
3/4	3/4	4,529.50	3/4	4,275.86	3/4	4,022.23	3/4	3,768.60	3/4	3,495.74	3/4	3,133.64	3/4	2,770.09	3/4	2,406.54	3/4	2,042.98	3/4	1,679.43	3/4	1,315.88	3/4	952.30	3/4	588.25	3/4	222.02	3/4			
6	6	4,524.21	6	4,270.58	6	4,016.95	6	3,763.32	6	3,488.64	6	3,126.07	6	2,762.51	6	2,398.96	6	2,035.41	6	1,671.86	6	1,308.31	6	944.72	6	580.64	6	215.41	6			
1/4	1/4	4,518.93	1/4	4,265.30	1/4	4,011.66	1/4	3,758.03	1/4	3,481.54	1/4	3,118.49	1/4	2,754.94	1/4	2,391.39	1/4	2,027.84	1/4	1,664.28	1/4	1,300.73	1/4	937.14	1/4	573.03	1/4	207.80	1/4			
1/2	1/2	4,513.64	1/2	4,260.01	1/2	4,006.38	1/2	3,752.75	1/2	3,474.09	1/2	3,110.92	1/2	2,747.37	1/2	2,383.81	1/2	2,020.26	1/2	1,656.71	1/2	1,293.16	1/2	929.56	1/2	565.42	1/2	200.19	1/2			
3/4	3/4	4,508.36	3/4	4,254.73	3/4	4,001.10	3/4	3,747.46	3/4	3,466.64	3/4	3,103.34	3/4	2,738.79	3/4	2,376.24	3/4	2,012.69	3/4	1,649.14	3/4	1,285.58	3/4	921.99	3/4	557.81	3/4	192.58	3/4			
7	7	4,503.08	7	4,249.44	7	3,995.81	7	3,742.18	7	3,459.20	7	3,095.77	7	2,732.22	7	2,368.67	7	2,005.11	7	1,641.56	7	1,278.01	7	914.41	7	550.20	7	184.97	7			
1/4	1/4	4,498.33	1/4	4,497.79	1/4	4,244.16	1/4	3,990.53	1/4	3,736.80	1/4	3,451.75	1/4	3,088.20	1/4	2,724.64	1/4	2,361.09	1/4	1,997.54	1/4	1,633.99	1/4	1,270.44	1/4	906.83	1/4	542.59	1/4	177.60	1/4	
1/2	1/2	4,493.04	1/2	4,492.51	1/2	4,238.88	1/2	3,985.24	1/2	3,731.61	1/2	3,444.17	1/2	3,080.62	1/2	2,717.07	1/2	2,353.52	1/2	1,989.97	1/2	1,626.41	1/2	1,262.86	1/2	899.26	1/2	534.98	1/2	170.23	1/2	
3/4	3/4	4,487.78	3/4	4,487.22	3/4	4,233.59	3/4	3,979.96	3/4	3,726.33	3/4	3,436.60	3/4	3,073.05	3/4	2,709.50	3/4	2,345.94	3/4	1,982.39	3/4	1,618.84	3/4	1,255.29	3/4	891.68	3/4	527.38	3/4	162.86	3/4	
8	8	4,482.40	8	4,481.94	8	4,228.31	8	3,974.68	8	3,721.04	8	3,429.03	8	3,065.47	8	2,701.92	8	2,338.37	8	1,974.82	8	1,611.27	8	1,247.71	8	884.10	8	519.77	8	155.49	8	
1/4	1/4	4,477.06	1/4	4,476.60	1/4	4,223.02	1/4	3,969.39	1/4	3,715.76	1/4	3,421.45	1/4	3,057.90	1/4	2,694.35	1/4	2,330.80	1/4	1,967.24	1/4	1,603.69	1/4	1,240.14	1/4	876.53	1/4	512.16	1/4	148.13	1/4	
1/2	1/2	4,471.77	1/2	4,471.31	1/2																											



**BUREAU  
VERITAS**

## BARGE "HFL - 3077" HINES FURLONG LINE

### OUTAGE TABLE

## 1 PORT OR STAR

**BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN**

HULL NO. 4756

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		15 FT		16 FT		17 FT	
0		0	4,954.87	0	4,597.18	0	4,239.48	0	3,881.78	0	3,524.09	0	3,166.39	0	2,808.70	0	2,451.00	0	2,093.30	0	1,735.61	0	1,377.91	0	1,020.22	0	662.52	0	305.80	0	5.40
1/4		1/4	4,947.42	1/4	4,589.72	1/4	4,232.03	1/4	3,874.33	1/4	3,516.64	1/4	3,158.94	1/4	2,801.24	1/4	2,443.55	1/4	2,085.85	1/4	1,728.16	1/4	1,370.46	1/4	1,012.76	1/4	655.07	1/4	298.60	1/4	4.12
1/2		1/2	4,939.97	1/2	4,582.27	1/2	4,224.58	1/2	3,866.88	1/2	3,509.18	1/2	3,151.49	1/2	2,793.79	1/2	2,436.10	1/2	2,078.40	1/2	1,720.70	1/2	1,363.01	1/2	1,005.31	1/2	647.62	1/2	291.39	1/2	2.84
3/4		3/4	4,932.52	3/4	4,574.82	3/4	4,217.12	3/4	3,859.43	3/4	3,501.73	3/4	3,144.04	3/4	2,786.34	3/4	2,428.64	3/4	2,070.95	3/4	1,713.25	3/4	1,355.56	3/4	997.86	3/4	640.16	3/4	284.19	3/4	1.56
1		1	4,925.06	1	4,567.37	1	4,209.67	1	3,851.98	1	3,494.28	1	3,136.58	1	2,778.89	1	2,421.19	1	2,063.50	1	1,705.80	1	1,348.10	1	990.41	1	632.71	1	276.98	1	
1/4		1/4	4,917.61	1/4	4,559.92	1/4	4,202.22	1/4	3,844.52	1/4	3,486.83	1/4	3,129.13	1/4	2,771.44	1/4	2,413.74	1/4	2,056.04	1/4	1,698.35	1/4	1,340.65	1/4	982.96	1/4	625.26	1/4	269.91	1/4	
1/2		1/2	4,910.16	1/2	4,552.46	1/2	4,194.77	1/2	3,837.07	1/2	3,479.38	1/2	3,121.68	1/2	2,763.98	1/2	2,406.29	1/2	2,048.59	1/2	1,690.90	1/2	1,333.20	1/2	975.50	1/2	617.81	1/2	262.83	1/2	
3/4		3/4	4,902.71	3/4	4,545.01	3/4	4,187.32	3/4	3,829.62	3/4	3,471.92	3/4	3,114.23	3/4	2,756.53	3/4	2,398.84	3/4	2,041.14	3/4	1,683.44	3/4	1,325.75	3/4	968.05	3/4	610.36	3/4	255.76	3/4	
2		2	4,895.26	2	4,537.56	2	4,179.86	2	3,822.17	2	3,464.47	2	3,106.78	2	2,749.08	2	2,391.38	2	2,033.69	2	1,675.99	2	1,318.30	2	960.60	2	602.90	2	248.68	2	
1/4		1/4	4,887.80	1/4	4,530.11	1/4	4,172.41	1/4	3,814.72	1/4	3,457.02	1/4	3,099.32	1/4	2,741.63	1/4	2,383.93	1/4	2,026.24	1/4	1,668.54	1/4	1,310.84	1/4	953.15	1/4	595.45	1/4	241.60	1/4	
1/2		1/2	4,880.35	1/2	4,522.66	1/2	4,164.96	1/2	3,807.26	1/2	3,449.57	1/2	3,091.87	1/2	2,734.18	1/2	2,376.48	1/2	2,018.78	1/2	1,661.09	1/2	1,303.39	1/2	945.70	1/2	588.00	1/2	234.53	1/2	
3/4		3/4	4,872.90	3/4	4,515.20	3/4	4,157.51	3/4	3,799.81	3/4	3,442.12	3/4	3,084.42	3/4	2,726.72	3/4	2,369.03	3/4	2,011.33	3/4	1,653.64	3/4	1,295.94	3/4	938.24	3/4	580.55	3/4	227.45	3/4	
3		3	4,865.45	3	4,507.75	3	4,150.06	3	3,792.36	3	3,434.66	3	3,076.97	3	2,719.27	3	2,361.58	3	2,003.88	3	1,646.18	3	1,288.49	3	930.79	3	573.10	3	220.38	3	
1/4		1/4	4,858.00	1/4	4,500.30	1/4	4,142.60	1/4	3,784.91	1/4	3,427.21	1/4	3,069.52	1/4	2,711.82	1/4	2,354.12	1/4	1,996.43	1/4	1,638.73	1/4	1,281.04	1/4	923.34	1/4	565.64	1/4	213.42	1/4	
1/2		1/2	4,850.54	1/2	4,492.85	1/2	4,135.15	1/2	3,777.46	1/2	3,419.76	1/2	3,062.06	1/2	2,704.37	1/2	2,346.67	1/2	1,988.98	1/2	1,631.28	1/2	1,273.58	1/2	915.89	1/2	558.19	1/2	206.47	1/2	
3/4		3/4	4,843.09	3/4	4,485.40	3/4	4,127.70	3/4	3,770.00	3/4	3,412.31	3/4	3,054.61	3/4	2,696.92	3/4	2,339.22	3/4	1,981.52	3/4	1,623.83	3/4	1,266.13	3/4	908.44	3/4	550.74	3/4	199.52	3/4	
4		4	4,835.64	4	4,477.94	4	4,120.25	4	3,762.55	4	3,404.86	4	3,047.16	4	2,689.46	4	2,331.77	4	1,974.07	4	1,616.38	4	1,258.68	4	900.98	4	543.29	4	192.57	4	
1/4	5,087.74	1/4	4,828.19	1/4	4,470.49	1/4	4,112.80	1/4	3,755.10	1/4	3,397.40	1/4	3,039.71	1/4	2,682.01	1/4	2,324.32	1/4	1,966.62	1/4	1,608.92	1/4	1,251.23	1/4	893.53	1/4	535.84	1/4	185.62	1/4	
1/2	5,087.32	1/2	4,820.74	1/2	4,463.04	1/2	4,105.34	1/2	3,747.65	1/2	3,389.95	1/2	3,032.26	1/2	2,674.56	1/2	2,316.86	1/2	1,959.17	1/2	1,601.47	1/2	1,243.78	1/2	886.08	1/2	528.38	1/2	178.66	1/2	
3/4	5,086.90	3/4	4,813.28	3/4	4,455.59	3/4	4,097.89	3/4	3,740.20	3/4	3,382.50	3/4	3,024.80	3/4	2,667.11	3/4	2,309.41	3/4	1,951.72	3/4	1,594.02	3/4	1,236.32	3/4	878.63	3/4	520.93	3/4	171.71	3/4	
5		5	4,805.83	5	4,448.14	5	4,090.44	5	3,732.74	5	3,375.05	5	3,017.35	5	2,659.66	5	2,301.96	5	1,944.26	5	1,586.57	5	1,228.87	5	871.18	5	513.48	5	164.76	5	
1/4	5,085.08	1/4	4,798.38	1/4	4,440.68	1/4	4,082.99	1/4	3,725.29	1/4	3,367.60	1/4	3,009.90	1/4	2,652.20	1/4	2,294.51	1/4	1,936.81	1/4	1,579.12	1/4	1,221.42	1/4	863.72	1/4	505.90	1/4	158.77	1/4	
1/2	5,083.66	1/2	4,790.93	1/2	4,433.23	1/2	4,075.54	1/2	3,717.84	1/2	3,360.14	1/2	3,002.45	1/2	2,644.75	1/2	2,287.06	1/2	1,929.36	1/2	1,571.66	1/2	1,213.97	1/2	856.27	1/2	498.32	1/2	151.59	1/2	
3/4	5,082.25	3/4	4,783.48	3/4	4,425.78	3/4	4,068.08	3/4	3,710.39	3/4	3,352.69	3/4	2,995.00	3/4	2,637.30	3/4	2,279.60	3/4	1,921.91	3/4	1,564.21	3/4	1,206.52	3/4	848.82	3/4	490.75	3/4	145.00	3/4	
6		6	4,776.02	6	4,418.33	6	4,060.63	6	3,702.94	6	3,345.24	6	2,987.54	6	2,629.85	6	2,272.15	6	1,914.46	6	1,556.76	6	1,199.06	6	841.37	6	483.17	6	138.42	6	
1/4	5,078.29	1/4	4,768.57	1/4	4,410.88	1/4	4,053.18	1/4	3,695.48	1/4	3,337.79	1/4	2,980.09	1/4	2,622.40	1/4	2,264.70	1/4	1,907.00	1/4	1,549.31	1/4	1,191.61	1/4	833.92	1/4	475.59	1/4	131.83	1/4	
1/2	5,075.75	1/2	4,761.12	1/2	4,403.42	1/2	4,045.73	1/2	3,688.03	1/2	3,330.34	1/2	2,972.64	1/2	2,614.94	1/2	2,257.25	1/2	1,899.55	1/2	1,541.86	1/2	1,184.16	1/2	826.46	1/2	468.01	1/2	125.24	1/2	
3/4	5,073.20	3/4	4,753.67	3/4	4,395.97	3/4	4,038.28	3/4	3,680.59	3/4	3,322.88	3/4	2,965.19	3/4	2,607.49	3/4	2,249.80	3/4	1,892.10	3/4	1,534.40	3/4	1,176.71	3/4	819.01	3/4	460.43	3/4	118.66	3/4	
7		7	4,746.22	7	4,388.52	7	4,030.82	7	3,673.13	7	3,315.43	7	2,957.74	7	2,600.04	7	2,242.34	7	1,884.65	7	1,526.95	7	1,169.26	7	811.56	7	452.86	7	112.07	7	
1/4	5,066.98	1/4	4,738.76	1/4	4,381.07	1/4	4,023.37	1/4	3,665.68	1/4	3,307.98	1/4	2,950.28	1/4	2,592.59	1/4	2,234.89	1/4	1,877.20	1/4	1,519.50	1/4	1,161.80	1/4	804.11	1/4	445.40	1/4	105.61	1/4	
1/2	5,063.31	1/2	4,731.31	1/2	4,373.62	1/2	4,015.92	1/2	3,658.22	1/2	3,300.53	1/2	2,942.83	1/2	2,585.14	1/2	2,227.44	1/2	1,869.74	1/2	1,512.05	1/2	1,154.35	1/2	796.66	1/2	437.95	1/2	99.14	1/2	
3/4	5,059.63	3/4	4,723.86	3/4	4,366.16	3/4	4,008.47	3/4	3,650.77	3/4	3,293.08	3/4	2,935.38	3/4	2,577.68	3/4	2,219.99	3/4	1,862.29	3/4	1,504.60	3/4	1,146.90	3/4	789.20	3/4	430.50	3/4	92.68	3/4	
8		8	4,716.41	8	4,358.71	8	4,001.02	8	3,643.32	8	3,285.62	8	2,927.93	8	2,570.23	8	2,212.54	8	1,854.84	8	1,497.14	8	1,139.45	8	781.75	8	423.05	8	86.22	8	
1/4	5,051.15	1/4	4,708.96	1/4	4,351.26	1/4	3,993.56	1/4	3,635.87	1/4	3,278.17	1/4	2,920.48	1/4	2,562.78	1/4	2,205.08	1/4	1,847.39	1/4	1,489.69	1/4	1,132.00	1/4	774.30	1/4	415.60	1/4	79.75	1/4	
1/2	5,046.35	1/2	4,701.50	1/2	4,343.81	1/2	3,986.11	1/2	3,628.42	1/2	3,270.72	1/2	2,913.02	1/2	2,555.33	1/2	2,197.63	1/2	1,839.94	1/2	1,482.24	1/2	1,124.54	1/2	766.85	1/2	408.14	1/2	73.29	1/2	
3/4	5,041.54	3/4	4,694.05	3/4	4,336.36	3/4	3,978.66	3/4	3,620.96	3/4	3,263.27	3/4	2,905.57	3/4	2,547.88	3/4	2,190.18	3/4	1,832.48	3/4	1,474.79	3/4	1,117.09	3/4	759.40	3/4	400.69	3/4	66.82	3/4	
9		9	4,686.60	9	4,328.90	9	3,971.21	9	3,613.51	9	3,255.82	9	2,898.12	9	2,540.42	9	2,182.73	9	1,825.03	9	1,467.34	9	1,109.64	9	751.94	9	393.24	9	60.36	9	
1/4	5,030.79	1/4																													



**BUREAU  
VERITAS**

## BARGE "HFL - 3077" HINES FURLONG LINE

### OUTAGE TABLE

## 2 PORT OR STAR

BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN

HULL NO. 4756

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		15 FT		16 FT		17 FT	
0	0	0	5,010.43	0	4,666.13	0	4,305.56	0	3,944.98	0	3,584.40	0	3,223.83	0	2,863.25	0	2,502.68	0	2,142.10	0	1,781.52	0	1,420.95	0	1,060.37	0	699.80	0	339.22	0	10.54
1/4	1/4	1/4	5,003.29	1/4	4,658.62	1/4	4,298.04	1/4	3,937.47	1/4	3,576.89	1/4	3,216.32	1/4	2,855.74	1/4	2,495.16	1/4	2,134.59	1/4	1,774.01	1/4	1,413.44	1/4	1,052.86	1/4	692.28	1/4	331.71	1/4	7.46
1/2	1/2	1/2	4,996.14	1/2	4,651.11	1/2	4,290.53	1/2	3,929.96	1/2	3,569.38	1/2	3,208.80	1/2	2,848.23	1/2	2,487.65	1/2	2,127.08	1/2	1,766.50	1/2	1,405.92	1/2	1,045.35	1/2	684.77	1/2	324.20	1/2	4.38
3/4	3/4	3/4	4,989.00	3/4	4,643.60	3/4	4,283.02	3/4	3,922.44	3/4	3,561.87	3/4	3,201.29	3/4	2,840.72	3/4	2,480.14	3/4	2,119.56	3/4	1,758.99	3/4	1,398.41	3/4	1,037.84	3/4	677.26	3/4	316.68	3/4	3.35
1	1	1	4,981.86	1	4,636.08	1	4,275.51	1	3,914.93	1	3,554.36	1	3,193.78	1	2,833.20	1	2,472.63	1	2,112.05	1	1,751.48	1	1,390.90	1	1,030.32	1	669.75	1	309.17	1	2.33
1/4	1/4	1/4	4,974.72	1/4	4,628.57	1/4	4,268.00	1/4	3,907.42	1/4	3,546.84	1/4	3,186.27	1/4	2,825.69	1/4	2,465.12	1/4	2,104.54	1/4	1,743.96	1/4	1,383.39	1/4	1,022.81	1/4	662.24	1/4	301.66	1/4	1.30
1/2	1/2	1/2	4,967.58	1/2	4,621.06	1/2	4,260.48	1/2	3,899.91	1/2	3,539.33	1/2	3,178.76	1/2	2,818.18	1/2	2,457.60	1/2	2,097.03	1/2	1,736.45	1/2	1,375.88	1/2	1,015.30	1/2	654.72	1/2	294.15	1/2	
3/4	3/4	3/4	4,960.43	3/4	4,613.55	3/4	4,252.97	3/4	3,892.40	3/4	3,531.82	3/4	3,171.24	3/4	2,810.67	3/4	2,450.09	3/4	2,089.52	3/4	1,728.94	3/4	1,368.36	3/4	1,007.79	3/4	647.21	3/4	286.64	3/4	
2	2	2	4,953.29	2	4,606.04	2	4,245.46	2	3,884.88	2	3,524.31	2	3,163.73	2	2,803.16	2	2,442.58	2	2,082.00	2	1,721.43	2	1,360.85	2	1,000.28	2	639.70	2	279.12	2	
1/4	1/4	1/4	4,946.15	1/4	4,598.52	1/4	4,237.95	1/4	3,877.37	1/4	3,516.80	1/4	3,156.22	1/4	2,795.64	1/4	2,435.07	1/4	2,074.49	1/4	1,713.92	1/4	1,353.34	1/4	992.76	1/4	632.19	1/4	271.61	1/4	
1/2	1/2	1/2	4,939.01	1/2	4,591.01	1/2	4,230.44	1/2	3,869.86	1/2	3,509.28	1/2	3,148.71	1/2	2,788.13	1/2	2,427.56	1/2	2,066.98	1/2	1,706.40	1/2	1,345.83	1/2	985.25	1/2	624.68	1/2	264.10	1/2	
3/4	3/4	3/4	4,931.87	3/4	4,583.50	3/4	4,222.92	3/4	3,862.35	3/4	3,501.77	3/4	3,141.20	3/4	2,780.62	3/4	2,420.04	3/4	2,059.47	3/4	1,698.89	3/4	1,338.32	3/4	977.74	3/4	617.16	3/4	256.59	3/4	
3	3	3	4,924.72	3	4,575.99	3	4,215.41	3	3,854.84	3	3,494.26	3	3,133.68	3	2,773.11	3	2,412.53	3	2,051.96	3	1,691.38	3	1,330.80	3	970.23	3	609.65	3	249.08	3	
1/4	1/4	1/4	4,917.58	1/4	4,568.48	1/4	4,207.90	1/4	3,847.32	1/4	3,486.75	1/4	3,126.17	1/4	2,765.60	1/4	2,405.02	1/4	2,044.44	1/4	1,683.87	1/4	1,323.29	1/4	962.72	1/4	602.14	1/4	241.56	1/4	
1/2	1/2	1/2	4,910.44	1/2	4,560.96	1/2	4,200.39	1/2	3,839.81	1/2	3,479.24	1/2	3,118.66	1/2	2,758.08	1/2	2,397.51	1/2	2,036.93	1/2	1,676.36	1/2	1,315.78	1/2	955.20	1/2	594.63	1/2	234.05	1/2	
3/4	3/4	3/4	4,903.30	3/4	4,553.45	3/4	4,192.88	3/4	3,832.30	3/4	3,471.72	3/4	3,111.15	3/4	2,750.57	3/4	2,390.00	3/4	2,029.42	3/4	1,668.84	3/4	1,308.27	3/4	947.69	3/4	587.12	3/4	226.54	3/4	
4	4	4	4,896.16	4	4,545.94	4	4,185.36	4	3,824.79	4	3,464.21	4	3,103.64	4	2,743.06	4	2,382.48	4	2,021.91	4	1,661.33	4	1,300.76	4	940.18	4	579.60	4	219.03	4	
1/4	1/4	1/4	4,889.01	1/4	4,538.43	1/4	4,177.85	1/4	3,817.28	1/4	3,456.70	1/4	3,096.12	1/4	2,735.55	1/4	2,374.97	1/4	2,014.40	1/4	1,653.82	1/4	1,293.24	1/4	932.67	1/4	602.14	1/4	241.56	1/4	
1/2	1/2	1/2	4,881.87	1/2	4,530.92	1/2	4,170.34	1/2	3,809.76	1/2	3,449.19	1/2	3,088.61	1/2	2,728.04	1/2	2,367.46	1/2	2,006.88	1/2	1,646.31	1/2	1,285.73	1/2	925.16	1/2	587.12	1/2	234.05	1/2	
3/4	3/4	3/4	4,874.73	3/4	4,523.40	3/4	4,162.83	3/4	3,802.25	3/4	3,441.68	3/4	3,081.10	3/4	2,720.52	3/4	2,359.95	3/4	1,999.37	3/4	1,638.80	3/4	1,278.22	3/4	917.64	3/4	557.07	3/4	196.49	3/4	
5	5,121.13	5	4,867.59	5	4,515.89	5	4,155.32	5	3,794.74	5	3,434.16	5	3,073.59	5	2,713.01	5	2,352.44	5	1,991.86	5	1,631.28	5	1,270.71	5	910.13	5	549.56	5	188.98	5	
1/4	5,120.73	1/4	4,860.45	1/4	4,508.38	1/4	4,147.80	1/4	3,787.23	1/4	3,426.65	1/4	3,066.08	1/4	2,705.50	1/4	2,344.92	1/4	1,984.35	1/4	1,623.77	1/4	1,263.20	1/4	902.62	1/4	542.04	1/4	181.47	1/4	
1/2	5,120.34	1/2	4,853.30	1/2	4,500.87	1/2	4,140.29	1/2	3,779.72	1/2	3,419.14	1/2	3,058.56	1/2	2,697.99	1/2	2,337.41	1/2	1,976.84	1/2	1,616.26	1/2	1,255.68	1/2	895.11	1/2	534.53	1/2	173.96	1/2	
3/4	5,119.91	3/4	4,846.16	3/4	4,493.36	3/4	4,132.78	3/4	3,772.20	3/4	3,411.63	3/4	3,051.05	3/4	2,690.48	3/4	2,329.90	3/4	1,969.32	3/4	1,608.75	3/4	1,248.17	3/4	887.60	3/4	527.02	3/4	167.02	3/4	
6	5,117.68	6	4,839.02	6	4,485.84	6	4,125.27	6	3,764.69	6	3,404.12	6	3,043.54	6	2,682.96	6	2,322.39	6	1,961.81	6	1,601.24	6	1,240.66	6	880.08	6	519.51	6	160.09	6	
1/4	5,116.35	1/4	4,831.88	1/4	4,478.33	1/4	4,117.76	1/4	3,757.18	1/4	3,396.60	1/4	3,036.03	1/4	2,675.45	1/4	2,314.88	1/4	1,950.30	1/4	1,593.72	1/4	1,233.15	1/4	872.57	1/4	512.00	1/4	153.15	1/4	
1/2	5,115.02	1/2	4,824.74	1/2	4,470.82	1/2	4,110.24	1/2	3,749.67	1/2	3,389.09	1/2	3,028.52	1/2	2,664.94	1/2	2,303.36	1/2	1,946.79	1/2	1,586.21	1/2	1,225.64	1/2	865.06	1/2	504.48	1/2	146.22	1/2	
3/4	5,112.63	3/4	4,817.69	3/4	4,463.31	3/4	4,102.73	3/4	3,742.16	3/4	3,381.58	3/4	3,021.00	3/4	2,660.43	3/4	2,299.85	3/4	1,939.28	3/4	1,578.70	3/4	1,218.12	3/4	857.55	3/4	496.97	3/4	139.25	3/4	
7	5,110.24	7	4,810.45	7	4,455.80	7	4,095.22	7	3,734.64	7	3,374.07	7	3,013.49	7	2,652.92	7	2,292.34	7	1,931.76	7	1,571.19	7	1,210.61	7	850.04	7	489.46	7	132.35	7	
1/4	5,107.84	1/4	4,803.31	1/4	4,448.28	1/4	4,087.71	1/4	3,727.13	1/4	3,366.56	1/4	3,005.98	1/4	2,645.40	1/4	2,284.83	1/4	1,924.25	1/4	1,563.68	1/4	1,203.10	1/4	842.52	1/4	481.95	1/4	125.42	1/4	
1/2	5,105.45	1/2	4,796.17	1/2	4,440.77	1/2	4,080.20	1/2	3,719.62	1/2	3,359.04	1/2	2,998.47	1/2	2,637.89	1/2	2,273.32	1/2	1,916.74	1/2	1,556.16	1/2	1,195.59	1/2	835.01	1/2	474.44	1/2	118.48	1/2	
3/4	5,101.99	3/4	4,789.03	3/4	4,433.26	3/4	4,072.68	3/4	3,712.11	3/4	3,351.53	3/4	2,990.96	3/4	2,630.38	3/4	2,269.80	3/4	1,909.23	3/4	1,548.65	3/4	1,188.08	3/4	827.50	3/4	466.92	3/4	111.55	3/4	
8	5,098.53	8	4,781.88	8	4,425.75	8	4,065.17	8	3,704.60	8	3,344.02	8	2,983.44	8	2,622.87	8	2,262.29	8	1,901.72	8	1,541.14	8	1,180.56	8	819.99	8	459.41	8	104.62	8	
1/4	5,095.07	1/4	4,774.74	1/4	4,418.24	1/4	4,057.66	1/4	3,697.08	1/4	3,336.51	1/4	2,975.93	1/4	2,6																



**BUREAU  
VERITAS**

## BARGE "HFL - 3077" HINES FURLONG LINE

### OUTAGE TABLE

## 3 PORT OR STAR

**BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN**

HULL NO. 4756

IN		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		15 FT		16 FT		17 FT	
0		0	4,619.32	0	4,365.69	0	4,112.06	0	3,858.43	0	3,603.98	0	3,262.40	0	2,898.85	0	2,535.29	0	2,171.74	0	1,808.19	0	1,444.64	0	1,081.09	0	717.41	0	352.37	0	11.25		
1/4	1/4	1/4	4,614.04	1/4	4,360.41	1/4	4,106.78	1/4	3,853.14	1/4	3,598.26	1/4	3,254.82	1/4	2,891.27	1/4	2,527.72	1/4	2,164.17	1/4	1,800.62	1/4	1,437.06	1/4	1,073.51	1/4	709.83	1/4	344.76	1/4	7.92		
1/2	1/2	1/2	4,608.76	1/2	4,355.12	1/2	4,101.49	1/2	3,847.86	1/2	3,592.55	1/2	3,247.25	1/2	2,883.70	1/2	2,520.15	1/2	2,156.59	1/2	1,793.04	1/2	1,429.49	1/2	1,065.94	1/2	702.25	1/2	337.15	1/2	4.59		
3/4	3/4	3/4	4,603.47	3/4	4,349.84	3/4	4,096.21	3/4	3,842.58	3/4	3,586.83	3/4	3,239.68	3/4	2,876.12	3/4	2,512.57	3/4	2,149.02	3/4	1,785.47	3/4	1,421.92	3/4	1,058.36	3/4	694.68	3/4	329.54	3/4	3.51		
1	1	1	4,598.19	1	4,344.56	1	4,090.92	1	3,837.29	1	3,580.77	1	3,232.10	1	2,868.55	1	2,505.00	1	2,141.45	1	1,777.89	1	1,414.34	1	1,050.79	1	687.10	1	321.93	1	2.44		
1/4	1/4	1/4	4,592.90	1/4	4,339.27	1/4	4,085.64	1/4	3,832.01	1/4	3,574.71	1/4	3,224.53	1/4	2,860.98	1/4	2,497.42	1/4	2,133.87	1/4	1,770.32	1/4	1,406.77	1/4	1,043.22	1/4	679.52	1/4	314.32	1/4	1.36		
1/2	1/2	1/2	4,587.62	1/2	4,333.99	1/2	4,080.36	1/2	3,826.72	1/2	3,568.64	1/2	3,216.95	1/2	2,853.40	1/2	2,489.85	1/2	2,126.30	1/2	1,762.75	1/2	1,399.19	1/2	1,035.64	1/2	671.95	1/2	306.71	1/2			
3/4	3/4	3/4	4,582.34	3/4	4,328.70	3/4	4,075.07	3/4	3,821.44	3/4	3,562.58	3/4	3,209.38	3/4	2,845.83	3/4	2,482.28	3/4	2,118.72	3/4	1,755.17	3/4	1,391.62	3/4	1,028.07	3/4	664.34	3/4	299.11	3/4			
2	2	2	4,577.05	2	4,323.42	2	4,069.79	2	3,816.16	2	3,556.17	2	3,201.81	2	2,838.25	2	2,474.70	2	2,111.15	2	1,747.60	2	1,384.05	2	1,020.49	2	656.73	2	291.50	2			
1/4	1/4	1/4	4,571.77	1/4	4,318.14	1/4	4,064.50	1/4	3,810.87	1/4	3,549.77	1/4	3,194.23	1/4	2,830.68	1/4	2,467.13	1/4	2,103.58	1/4	1,740.02	1/4	1,376.47	1/4	1,012.91	1/4	649.12	1/4	283.89	1/4			
1/2	1/2	1/2	4,566.48	1/2	4,312.85	1/2	4,059.22	1/2	3,805.59	1/2	3,543.36	1/2	3,186.66	1/2	2,823.11	1/2	2,459.55	1/2	2,096.00	1/2	1,732.45	1/2	1,368.90	1/2	1,005.33	1/2	641.51	1/2	276.28	1/2			
3/4	3/4	3/4	4,561.20	3/4	4,307.57	3/4	4,053.94	3/4	3,800.30	3/4	3,536.95	3/4	3,179.08	3/4	2,815.53	3/4	2,451.98	3/4	2,088.43	3/4	1,724.88	3/4	1,361.32	3/4	997.76	3/4	633.90	3/4	268.67	3/4			
3	3	3	4,555.92	3	4,302.28	3	4,048.65	3	3,795.02	3	3,530.20	3	3,171.51	3	2,807.96	3	2,444.41	3	2,080.85	3	1,717.30	3	1,353.75	3	990.18	3	626.29	3	261.06	3			
1/4	1/4	1/4	4,550.63	1/4	4,297.00	1/4	4,043.37	1/4	3,789.74	1/4	3,524.44	1/4	3,163.94	1/4	2,800.38	1/4	2,436.83	1/4	2,073.28	1/4	1,709.73	1/4	1,346.18	1/4	982.60	1/4	618.68	1/4	253.45	1/4			
1/2	1/2	1/2	4,545.35	1/2	4,291.72	1/2	4,038.08	1/2	3,784.45	1/2	3,516.69	1/2	3,156.36	1/2	2,792.81	1/2	2,429.26	1/2	2,065.71	1/2	1,702.15	1/2	1,338.60	1/2	975.03	1/2	611.07	1/2	245.84	1/2			
3/4	3/4	3/4	4,540.06	3/4	4,286.43	3/4	4,032.80	3/4	3,779.17	3/4	3,509.94	3/4	3,148.79	3/4	2,785.24	3/4	2,421.68	3/4	2,058.13	3/4	1,694.58	3/4	1,331.03	3/4	967.45	3/4	603.47	3/4	238.23	3/4			
4	4	4	4,534.78	4	4,281.15	4	4,027.52	4	3,773.88	4	3,502.84	4	3,141.21	4	2,777.66	4	2,414.11	4	2,050.56	4	1,687.01	4	1,323.45	4	959.87	4	595.86	4	230.62	4			
1/4	1/4	1/4	4,529.50	1/4	4,275.86	1/4	4,022.23	1/4	3,768.60	1/4	3,495.74	1/4	3,133.64	1/4	2,770.09	1/4	2,406.54	1/4	2,042.98	1/4	1,679.43	1/4	1,315.88	1/4	952.30	1/4	588.25	1/4	223.02	1/4			
1/2	1/2	1/2	4,524.21	1/2	4,270.58	1/2	4,016.95	1/2	3,763.32	1/2	3,488.64	1/2	3,126.07	1/2	2,762.51	1/2	2,398.96	1/2	2,035.41	1/2	1,671.28	1/2	1,308.31	1/2	944.72	1/2	580.64	1/2	215.41	1/2			
3/4	3/4	3/4	4,518.93	3/4	4,265.30	3/4	4,011.66	3/4	3,758.03	3/4	3,481.54	3/4	3,118.49	3/4	2,754.94	3/4	2,391.39	3/4	2,027.84	3/4	1,664.82	3/4	1,300.73	3/4	937.14	3/4	573.03	3/4	207.80	3/4			
5	5	5	4,700.88	5	4,513.64	5	4,260.01	5	4,006.38	5	3,752.75	5	3,474.09	5	3,110.92	5	2,747.37	5	2,383.81	5	2,020.26	5	1,656.71	5	1,293.16	5	929.56	5	565.42	5	200.19	5	
1/4	1/4	1/4	4,700.59	1/4	4,508.36	1/4	4,254.73	1/4	4,001.10	1/4	3,747.46	1/4	3,466.64	1/4	3,103.34	1/4	2,739.79	1/4	2,376.24	1/4	2,012.69	1/4	1,649.14	1/4	1,285.58	1/4	921.99	1/4	557.81	1/4	192.58	1/4	
1/2	1/2	1/2	4,700.30	1/2	4,503.08	1/2	4,249.44	1/2	3,995.81	1/2	3,742.18	1/2	3,459.20	1/2	3,095.77	1/2	2,732.22	1/2	2,368.67	1/2	2,005.11	1/2	1,641.56	1/2	1,278.01	1/2	914.41	1/2	550.20	1/2	184.97	1/2	
3/4	3/4	3/4	4,699.33	3/4	4,497.79	3/4	4,244.16	3/4	3,990.53	3/4	3,736.90	3/4	3,451.75	3/4	3,088.20	3/4	2,724.64	3/4	2,361.09	3/4	1,997.54	3/4	1,633.99	3/4	1,270.44	3/4	906.83	3/4	542.59	3/4	177.60	3/4	
6	6	6	4,696.35	6	4,492.51	6	4,238.88	6	3,985.24	6	3,731.61	6	3,444.17	6	3,080.62	6	2,717.07	6	2,353.52	6	1,989.97	6	1,626.41	6	1,262.86	6	899.26	6	534.98	6	170.23	6	
1/4	1/4	1/4	4,691.38	1/4	4,487.22	1/4	4,233.59	1/4	3,979.96	1/4	3,726.33	1/4	3,436.60	1/4	3,073.05	1/4	2,709.50	1/4	2,345.94	1/4	1,982.39	1/4	1,618.84	1/4	1,255.29	1/4	891.68	1/4	527.38	1/4	162.86	1/4	
1/2	1/2	1/2	4,686.40	1/2	4,481.94	1/2	4,228.31	1/2	3,974.68	1/2	3,721.04	1/2	3,429.03	1/2	3,065.47	1/2	2,701.92	1/2	2,338.37	1/2	1,974.82	1/2	1,611.27	1/2	1,247.71	1/2	884.10	1/2	519.77	1/2	155.49	1/2	
3/4	3/4	3/4	4,684.64	3/4	4,476.66	3/4	4,223.02	3/4	3,969.39	3/4	3,715.76	3/4	3,421.45	3/4	3,057.90	3/4	2,694.35	3/4	2,330.80	3/4	1,967.24	3/4	1,603.69	3/4	1,240.14	3/4	875.53	3/4	512.16	3/4	148.13	3/4	
7	7	7	4,682.88	7	4,471.37	7	4,217.74	7	3,964.11	7	3,710.48	7	3,413.88	7	3,050.33	7	2,686.77	7	2,323.22	7	1,959.67	7	1,596.12	7	1,232.67	7	868.95	7	504.55	7	140.76	7	
1/4	1/4	1/4	4,681.12	1/4	4,466.09	1/4	4,212.46	1/4	3,958.82	1/4	3,705.19	1/4	3,406.30	1/4	3,042.75	1/4	2,679.20	1/4	2,315.65	1/4	1,952.10	1/4	1,588.54	1/4	1,224.99	1/4	861.37	1/4	496.94	1/4	133.39	1/4	
1/2	1/2	1/2	4,680.36	1/2	4,460.80	1/2	4,207.17	1/2	3,953.54	1/2	3,699.91	1/2	3,398.73	1/2	3,035.18	1/2	2,671.63	1/2	2,308.07	1/2	1,944.52	1/2	1,580.97	1/2	1,217.42	1/2	853.79	1/2	489.33	1/2	126.02	1/2	
3/4	3/4	3/4	4,680.81	3/4	4,465.52	3/4	4,201.89	3/4	3,948.26	3/4	3,694.62	3/4	3,391.16	3/4	3,027.60	3/4	2,664.05	3/4	2,300.50	3/4	1,936.95	3/4	1,573.40	3/4	1,209.84	3/4	846.22	3/4	481.72	3/4	118.65	3/4	
8	8	8	4,684.27	8	4,480.24	8	4,196.60	8	3,942.97	8	3,689.34	8	3,383.58	8	3,020.03	8	2,656.48	8	2,292.93	8	1,929.37	8	1,565.82	8	1,202.27	8	838.64	8	474.11	8	111.28	8	
1/4	1/4	1/4	4,681.73	1/4	4,444.95	1/4	4,191.32	1/4	3,937.69	1/4	3,684.06	1/4	3,376.01	1/4	3,012.46	1/4	2,648.90	1/4	2,285.35	1/4	1,921.80	1/4	1,558.25	1/4	1,194.70	1/4	831.06	1/4	466.50	1/4	103.91	1/4	
1/2	1/2	1/2	4,679.19	1/2	4,439.67	1/2	4,186.04	1/2	3,932.40	1/2	3,678.77	1/2	3,368.43	1/2	3,004.88	1/2	2,641.33	1/2	2,277.78	1/2	1,914.23	1/2	1,550.67	1/2	1,187.12	1/2	823.49	1/2	458.89	1/2	96.54	1/2	
3/4	3/4	3/4	4,675.86	3/4	4,434.38	3/4	4,180.75	3/4	3,927.12	3/4	3,673.49	3/4	3,360.86	3/4	2,997.31	3/4	2,633.76	3/4	2,270.20	3/4	1,906.65	3/4	1,543.10	3/4	1,179.55	3/4	815.91	3/4	451.				



**BUREAU  
VERITAS**

# BARGE "HFL - 3077" HINES FURLONG LINE

HULL NO. 4756

CORRECTION TABLE FOR TRIM AFT.

## FOR OUTAGE GAUGES ONLY

TRIM	TANKS NO. 1 PORT OR STAR.	TANKS NO. 2 PORT OR STAR.	TANKS NO. 3 PORT OR STAR.
0'-6"	(+) 0' - 1"	(+) 0' - 1"	(-) 0' - 1"
1'-0"	(+) 0' - 2"	(+) 0' - 2"	(-) 0' - 2"
1'-6"	(+) 0' - 3"	(+) 0' - 3"	(-) 0' - 3"
2'-0"	(+) 0' - 4"	(+) 0' - 4"	(-) 0' - 4"
2'-6"	(+) 0' - 5"	(+) 0' - 5"	(-) 0' - 5"
3'-0"	(+) 0' - 6"	(+) 0' - 6"	(-) 0' - 6"
3'-6"	(+) 0' - 7"	(+) 0' - 7"	(-) 0' - 7"
4'-0"	(+) 0' - 8"	(+) 0' - 8"	(-) 0' - 8"
4'-6"	(+) 0' - 9"	(+) 0' - 9"	(-) 0' - 9"
5'-0"	(+) 0' - 9 7/8"	(+) 0' - 10"	(-) 0' - 9 7/8"

NOTE: FOR TRIM FWD., REVERSE SIGNS.

NOTE: IF LIQUID SURFACE TOUCHES TANK BOTTOM OR DECK WHEN GAUGED,  
TRIM CORRECTIONS ARE NOT ACCURATE.

NOTE: FOR "INNAGE" GAUGES, REVERSE SIGNS.

**NOTE: FOR 2" DIAMETER BALL VALVE ONLY (CLOSED GAUGING)**

DATE: 05/19/21

BY:

  
BUREAU VERITAS NORTH AMERICA



**BUREAU  
VERITAS**

# BARGE "HFL - 3077" HINES FURLONG LINE

HULL NO. 4756

CORRECTION TABLE FOR TRIM AFT.

## FOR OUTAGE GAUGES ONLY

TRIM	TANKS NO. 1 PORT OR STAR.	TANKS NO. 2 PORT OR STAR.	TANKS NO. 3 PORT OR STAR.
0'-6"	(+) 0' - 1"	(+) 0' - 1"	(-) 0' - 1"
1'-0"	(+) 0' - 2"	(+) 0' - 2"	(-) 0' - 2"
1'-6"	(+) 0' - 3"	(+) 0' - 3"	(-) 0' - 3"
2'-0"	(+) 0' - 4"	(+) 0' - 4"	(-) 0' - 4"
2'-6"	(+) 0' - 5"	(+) 0' - 5 1/8"	(-) 0' - 5"
3'-0"	(+) 0' - 6 1/8"	(+) 0' - 6 1/8"	(-) 0' - 6 1/8"
3'-6"	(+) 0' - 7 1/8"	(+) 0' - 7 1/8"	(-) 0' - 7 1/8"
4'-0"	(+) 0' - 8 1/8"	(+) 0' - 8 1/8"	(-) 0' - 8 1/8"
4'-6"	(+) 0' - 9 1/8"	(+) 0' - 9 1/8"	(-) 0' - 9 1/8"
5'-0"	(+) 0' - 10 1/8"	(+) 0' - 10 1/8"	(-) 0' - 10 1/8"

NOTE: FOR TRIM FWD., REVERSE SIGNS.

NOTE: IF LIQUID SURFACE TOUCHES TANK BOTTOM OR DECK WHEN GAUGED,  
TRIM CORRECTIONS ARE NOT ACCURATE.

NOTE: FOR "INNAGE" GAUGES, REVERSE SIGNS.

**NOTE: FOR 10" DIAMETER HATCH ONLY (OPEN GAUGING)**

DATE: 05/19/21

BY:

  
BUREAU VERITAS NORTH AMERICA