Program Name (Ver. 0.22) = mb.exe
Command File = wherry.cmd
Command File Last Modified Time = Fri Oct 29 19:09:16 2004
Execution Time = Fri Oct 29 19:09:40 2004

Units (unless otherwise stated): Inches, Degrees
Number Points = 401
x-Axis Increment = 0.500"
Range = [-100.000" <= x <= 100.000"]
Stitch Increment = 3.000"
Stitch Inset = 0.312"
Hull Plywood: Weight = 6.000 oz/sq-ft, Thick = 0.150", <4mm Okoume plywood>
Deck Plywood: Weight = 6.000 oz/sq-ft, Thick = 0.150", <4mm Okoume plywood>
Bulkhead Plywood: Weight = 6.000 oz/sq-ft, Thick = 0.150", <4mm Okoume plywood>
Hull Interior Finish: Weight = 1.780 oz/sq-ft, Thick = 0.007", <#1522 Deck cloth, 3.7 oz/sq-yd, 4.8 mil, epoxy resin>
Hull Exterior Finish: Weight = 2.250 oz/sq-ft, Thick = 0.012", <#7533 C-cloth, 5.85 oz/sq-yd, 8 mil, epoxy resin>
Deck Interior Finish: Weight = 1.780 oz/sq-ft, Thick = 0.007", <#1522 Deck cloth, 3.7 oz/sq-yd, 4.8 mil, epoxy resin>
Deck Exterior Finish: Weight = 1.780 oz/sq-ft, Thick = 0.007", <#1522 Deck cloth, 3.7 oz/sq-yd, 4.8 mil, epoxy resin>
Bulkead Finish: Weight = 1.780 oz/sq-ft, Thick = 0.007", <#1522 Deck cloth, 3.7 oz/sq-yd, 4.8 mil, epoxy resin>
Water: Density = 62.430 lb/ft^3, <Pure water @ 4 degC>
Template Sheetsize = (12.0", 42.0")
Template Scale = 100.000%
Template Grid = 1.000"x1.000"
Template Banner Mode = TRUE, Sheet-to-Sheet Printer Correction Offset = 0.000"

Payload List: * identifies loads included in gross boat weight
*Weight = 0.55 lbs @(65.9, 7.1, 0.0) <Fwd deck BH>
*Weight = 0.37 lbs @(-77.8, 6.8, 0.0) <Aft deck BH>
*Weight = 1.72 lbs @(23.1, 11.9, 0.0) <Deck weight (calculated)>
*Weight = 28.30 lbs @(-0.6, 4.3, 0.0) <Hull weight (calculated)>
*Weight = 1.60 lbs @(0.0, 0.0, 0.0) <Keel protector (0.75" wide x 1/32") brass>
*Weight = 1.10 lbs @(0.0, 0.0, 0.0) <Keel protector (0.75"x0.25" white oak)>
*Weight = 3.50 lbs @(0.0, 11.0, 0.0) <Deck perimeter (0.5"x0.75" rounded white oak) trim>
Weight = 8.00 lbs @(-13.0, 14.0, 0.0) <Rowing Oars (x2)>
*Weight = 1.00 lbs @(-20.0, 1.0, 0.0) <Wood runner inside at keel (36")>
*Weight = 2.00 lbs @(-15.0, 5.0, 0.0) <Wood support for seat & deck>
*Weight = 1.50 lbs @(-34.0, 6.0, 0.0) <Bulkhead for rig & foot stretcher>
*Weight = 1.50 lbs @(3.0, 5.0, 0.0) <Sliding seat & 32" rails>
*Weight = 1.50 lbs @(-36.0, 4.0, 0.0) <Foot stretcher>
*Weight = 5.00 lbs @(-27.0, 12.0, 0.0) <Rowing Rig (Hudson)>
Weight = 100.00 lbs @(0.0, 4.0, 0.0) <Normal payload stuff>

Variable Position Load: Weight = 165.00 lbs <Rower on sliding seat>
FOR x = -17.00 UNTIL -1.00 INCREMENT BY 8.00
FOR y = 15.00
FOR z = 0.00 UNTIL 7.00 INCREMENT BY 1.00

General Hull+Deck+Bulkhead Statistics
Material+Finish Weight = 30.93 lbs
@ Center of Mass = (x=0.959", y=4.789", z=0.000")
Gross Boat Weight = 49.63 lbs
@ Center of Mass = (x=-5.155", y=5.644", z=0.000")
Length = 200.0 in = 16.67 ft
Width = 28.0 in = 2.33 ft
Bow (foward) Height = 13.0 in = 1.08 ft

Center Height = 11.0 in = 0.92 ft
Stern (aft) Height = 11.0 in = 0.92 ft
Cockpit foward position = 67.2" = 5.60 ft
Cockpit aft position = -79.0" = -6.58 ft
Cockpit length = 146.2" = 12.18 ft
Hull volume at gunwale = 19.12 ft^3
Forward volume under deck = 1.01 ft^3
Aft volume under deck = 0.30 ft^3
Surface Area = 59.28 sq-ft
Bird's Eye View Area = 26.82 sq-ft

Bulkheads
Bulkhead at x = -76.000", Angle = 105.0 deg, <Aft deck BH>
Surface Area = 0.62 sq-ft
Material+Finish Weight = 0.37 lbs
Center of Mass = (x=-77.812", y=6.764", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.987), (Z=-0.000, Y=0.987)
ExteriorNoSkin(1) = (z=1.280, y=1.144), (Z=-1.280, Y=1.144), Ang=7.002
ExteriorNoSkin(2) = (z=4.105, y=4.017), (Z=-4.105, Y=4.017), Ang=45.474
ExteriorNoSkin(3) = (z=5.398, y=7.344), (Z=-5.398, Y=7.344), Ang=68.765
ExteriorNoSkin(4) = (z=6.423, y=11.388), (Z=-6.423, Y=11.388), Ang=75.776
ExteriorNoSkin(5) = (z=0.000, y=11.388), (Z=-0.000, Y=11.388), Ang=0.000
Bulkhead at x = 64.000", Angle = 75.0 deg, <Fwd deck BH>
Surface Area = 0.92 sq-ft
Material+Finish Weight = 0.55 lbs
Center of Mass = (x=65.890", y=7.052", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.725), (Z=-0.000, Y=0.725)
ExteriorNoSkin(1) = (z=2.576, y=1.041), (Z=-2.576, Y=1.041), Ang=6.996
ExteriorNoSkin(2) = (z=5.406, y=3.753), (Z=-5.406, Y=3.753), Ang=43.783
ExteriorNoSkin(3) = (z=6.645, y=7.255), (Z=-6.645, Y=7.255), Ang=70.514
ExteriorNoSkin(4) = (z=7.717, y=12.439), (Z=-7.717, Y=12.439), Ang=78.317
ExteriorNoSkin(5) = (z=0.000, y=12.439), (Z=-0.000, Y=12.439), Ang=0.000
Marker at x = -87.000", Angle = 90.0 deg, <Stern Plate @ -87>
Surface Area = 0.26 sq-ft
Material+Finish Weight = 0.00 lbs
Center of Mass = (x=-87.000", y=7.760", z=0.000")
ExteriorNoSkin(0) = Invalid
ExteriorNoSkin(1) = (z=0.000, y=2.328), (Z=-0.000, Y=2.328)
ExteriorNoSkin(2) = (z=1.242, y=4.105), (Z=-1.242, Y=4.105), Ang=55.056
ExteriorNoSkin(3) = (z=2.814, y=7.162), (Z=-2.814, Y=7.162), Ang=62.778
ExteriorNoSkin(4) = (z=4.333, y=11.000), (Z=-4.333, Y=11.000), Ang=68.405
ExteriorNoSkin(5) = (z=0.000, y=11.000), (Z=-0.000, Y=11.000), Ang=0.000
Marker at x = -72.000", Angle = 90.0 deg, <Stern Plate @ -72>
Surface Area = 0.78 sq-ft
Material+Finish Weight = 0.00 lbs
Center of Mass = (x=-72.000", y=6.633", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.861), (Z=-0.000, Y=0.861)
ExteriorNoSkin(1) = (z=2.391, y=1.143), (Z=-2.391, Y=1.143), Ang=6.724
ExteriorNoSkin(2) = (z=5.350, y=3.771), (Z=-5.350, Y=3.771), Ang=41.608
ExteriorNoSkin(3) = (z=6.837, y=7.051), (Z=-6.837, Y=7.051), Ang=65.606
ExteriorNoSkin(4) = (z=7.963, y=11.000), (Z=-7.963, Y=11.000), Ang=74.084
ExteriorNoSkin(5) = (z=0.000, y=11.000), (Z=-0.000, Y=11.000), Ang=0.000
Marker at x = -48.000", Angle = 90.0 deg, <Stern Plate @ -48>
Surface Area = 1.39 sq-ft
Material+Finish Weight = 0.00 lbs

Center of Mass = (x=-48.000", y=6.229", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.407), (Z=-0.000, Y=0.407)
ExteriorNoSkin(1) = (z=6.974, y=1.229), (Z=-6.974, Y=1.229), Ang=6.724
ExteriorNoSkin(2) = (z=9.752, y=3.316), (Z=-9.752, Y=3.316), Ang=36.919
ExteriorNoSkin(3) = (z=11.148, y=6.899), (Z=-11.148, Y=6.899), Ang=68.707
ExteriorNoSkin(4) = (z=11.801, y=11.000), (Z=-11.801, Y=11.000), Ang=80.955
ExteriorNoSkin(5) = (z=0.000, y=11.000), (Z=-0.000, Y=11.000), Ang=0.000
Marker at x = -24.000", Angle = 90.0 deg, <Stern Plate @ -24>
Surface Area = 1.72 sq-ft
Material+Finish Weight = 0.00 lbs
Center of Mass = (x=-24.000", y=6.067", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.105), (Z=-0.000, Y=0.105)
ExteriorNoSkin(1) = (z=9.224, y=1.193), (Z=-9.224, Y=1.193), Ang=6.724
ExteriorNoSkin(2) = (z=11.987, y=3.015), (Z=-11.987, Y=3.015), Ang=33.398
ExteriorNoSkin(3) = (z=13.336, y=6.799), (Z=-13.336, Y=6.799), Ang=70.386
ExteriorNoSkin(4) = (z=13.705, y=11.000), (Z=-13.705, Y=11.000), Ang=84.975
ExteriorNoSkin(5) = (z=0.000, y=11.000), (Z=-0.000, Y=11.000), Ang=0.000
Marker at x = 0.000", Angle = 90.0 deg, <Center Plate @ zero>
Surface Area = 1.77 sq-ft
Material+Finish Weight = 0.00 lbs
Center of Mass = (x=0.000", y=6.015", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.000), (Z=-0.000, Y=0.000)
ExteriorNoSkin(1) = (z=9.431, y=1.112), (Z=-9.431, Y=1.112), Ang=6.724
ExteriorNoSkin(2) = (z=12.291, y=2.909), (Z=-12.291, Y=2.909), Ang=32.146
ExteriorNoSkin(3) = (z=13.624, y=6.763), (Z=-13.624, Y=6.763), Ang=70.914
ExteriorNoSkin(4) = (z=13.899, y=11.000), (Z=-13.899, Y=11.000), Ang=86.286
ExteriorNoSkin(5) = (z=0.000, y=11.000), (Z=-0.000, Y=11.000), Ang=0.000
Marker at x = 24.000", Angle = 90.0 deg, <Bow Plate @ +24>
Surface Area = 1.62 sq-ft
Material+Finish Weight = 0.00 lbs
Center of Mass = (x=24.000", y=6.143", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.105), (Z=-0.000, Y=0.105)
ExteriorNoSkin(1) = (z=8.135, y=1.065), (Z=-8.135, Y=1.065), Ang=6.724
ExteriorNoSkin(2) = (z=11.074, y=3.015), (Z=-11.074, Y=3.015), Ang=33.565
ExteriorNoSkin(3) = (z=12.418, y=6.799), (Z=-12.418, Y=6.799), Ang=70.452
ExteriorNoSkin(4) = (z=12.830, y=11.140), (Z=-12.830, Y=11.140), Ang=84.583
ExteriorNoSkin(5) = (z=0.000, y=11.140), (Z=-0.000, Y=11.140), Ang=0.000
Marker at x = 48.000", Angle = 90.0 deg, <Bow Plate @ +48>
Surface Area = 1.28 sq-ft
Material+Finish Weight = 0.00 lbs
Center of Mass = (x=48.000", y=6.543", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.407), (Z=-0.000, Y=0.407)
ExteriorNoSkin(1) = (z=5.377, y=1.041), (Z=-5.377, Y=1.041), Ang=6.724
ExteriorNoSkin(2) = (z=8.341, y=3.316), (Z=-8.341, Y=3.316), Ang=37.510
ExteriorNoSkin(3) = (z=9.718, y=6.899), (Z=-9.718, Y=6.899), Ang=68.983
ExteriorNoSkin(4) = (z=10.539, y=11.542), (Z=-10.539, Y=11.542), Ang=79.972
ExteriorNoSkin(5) = (z=0.000, y=11.542), (Z=-0.000, Y=11.542), Ang=0.000
Marker at x = 72.000", Angle = 90.0 deg, <Bow Plate @ +72>
Surface Area = 0.69 sq-ft
Material+Finish Weight = 0.00 lbs
Center of Mass = (x=72.000", y=7.455", z=0.000")
ExteriorNoSkin(0) = (z=0.000, y=0.861), (Z=-0.000, Y=0.861)
ExteriorNoSkin(1) = (z=0.938, y=0.972), (Z=-0.938, Y=0.972), Ang=6.724
ExteriorNoSkin(2) = (z=3.914, y=3.771), (Z=-3.914, Y=3.771), Ang=43.237
ExteriorNoSkin(3) = (z=5.357, y=7.051), (Z=-5.357, Y=7.051), Ang=66.256

ExteriorNoSkin(4) = (z=6.857, y=12.148), (Z=-6.857, Y=12.148), Ang=73.604
ExteriorNoSkin(5) = (z=0.000, y=12.148), (Z=-0.000, Y=12.148), Ang=0.000
Marker at x = 87.000", Angle = 90.0 deg, <Bow Plate @ +87>
Surface Area = 0.21 sq-ft
Material+Finish Weight = 0.00 lbs
Center of Mass = (x=87.000", y=9.186", z=0.000")
ExteriorNoSkin(0) = Invalid
ExteriorNoSkin(1) = Invalid
ExteriorNoSkin(2) = (z=0.080, y=4.105), (Z=-0.080, Y=4.105)
ExteriorNoSkin(3) = (z=1.587, y=7.162), (Z=-1.587, Y=7.162), Ang=63.753
ExteriorNoSkin(4) = (z=3.646, y=12.594), (Z=-3.646, Y=12.594), Ang=69.237
ExteriorNoSkin(5) = (z=0.000, y=12.594), (Z=-0.000, Y=12.594), Ang=0.000

Top View Contour Shape
Shape[-110.000 <= x <= -10.000] = 28 * (cos ((PI / 180) * (0.839 * x + 8.391))) ^ 0.500
Shape[-10.000 < x <= 110.000] = 28 * (cos ((PI / 180) * (0.687 * x + 6.866))) ^ 0.500
Shape[-110.000 <= x <= 110.000] = -14

General Hull Statistics
Hull Length = 200.0 in = 16.67 ft
Hull Width = 28.0 in = 2.33 ft
Hull Bow (forward) Height = 13.0 in = 1.08 ft
Hull Center Height = 11.0 in = 0.92 ft
Hull Stern (aft) Height = 11.0 in = 0.92 ft
Hull Surface Area = 45.14 sq-ft
Hull volume at gunwale = 19.12 ft^3
Hull Bird’s Eye View Area = 26.82 sq-ft
Hull Material+Finish Weight = 28.30 lbs
Hull Center of Mass = (x=-0.617", y=4.288", z=0.000")

Hull Profile (re: User provided Rotation and ProfileUsage)
Shape[0.000 <= z <= 0.498] = 0.0875 * z
Shape[0.498 < z <= 0.649] = 0.466 * z
Shape[0.498 < z <= 0.649] = -0.189
Shape[0.649 < z <= 0.720] = 2.14 * z
Shape[0.649 < z <= 0.720] = -1.28
Shape[0.720 < z <= 0.734] = 11.4 * z
Shape[0.720 < z <= 0.734] = -7.96

Hull Bowline Characteristics
Taper = 50.0%
PlaneLock = plane ID 3
Shape[0.000 <= x <= 1.000] = 1 * sin ((PI / 180) * (90.000 * x))

Hull Sternline Characteristics
Taper = 50.0%
PlaneLock = plane ID 3
Shape[0.000 <= x <= 1.000] = 1 * sin ((PI / 180) * (90.000 * x))

Number Hull Fabric Planes = 4
HullFabric[0] = Top Shape
Desired Profile Usage = uniform (16.7%)
Desired Rotation = 85.0 degree
Calculated Rotation = 86.3 degree
Calculated Shape Offset = 0.000

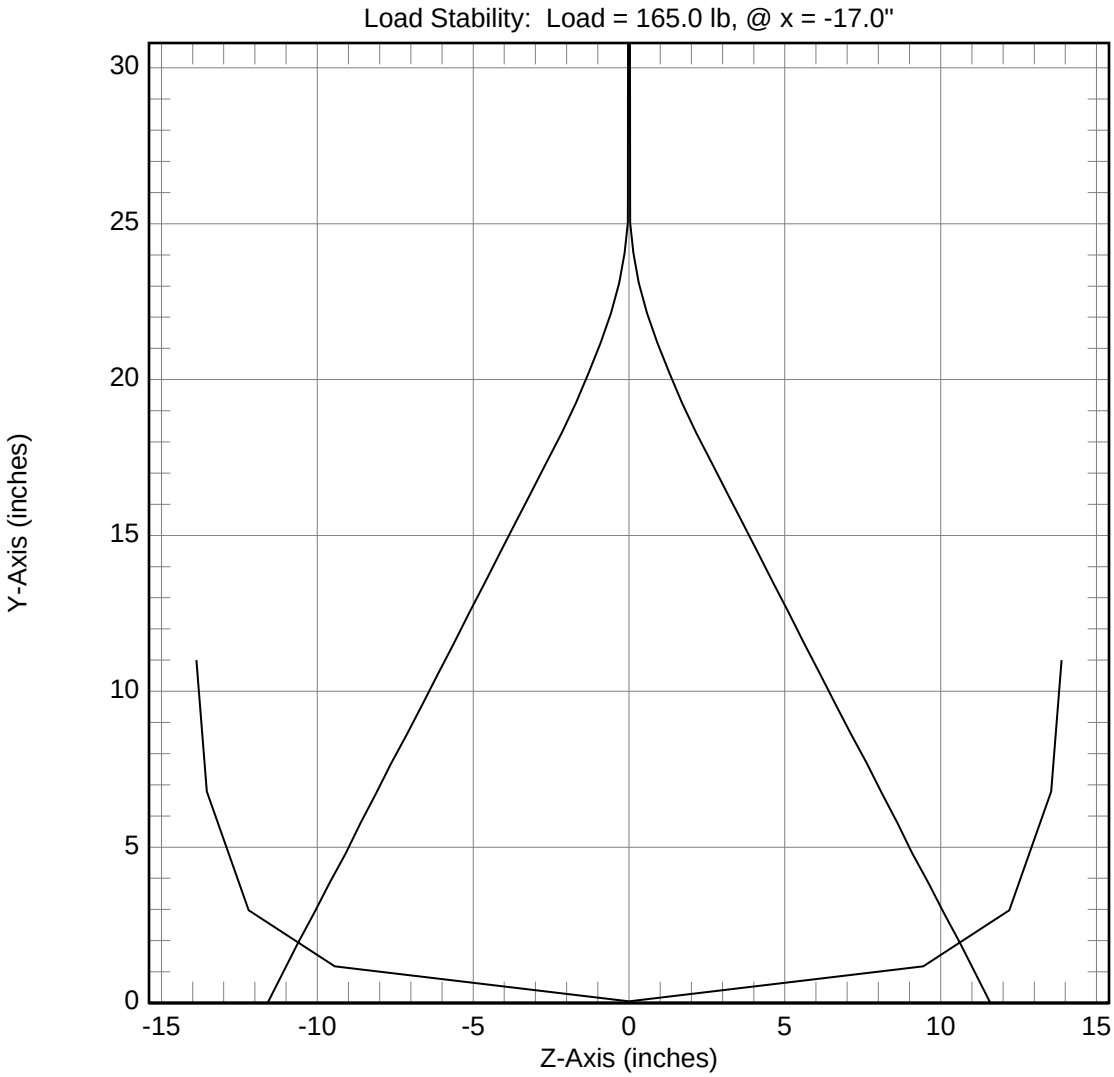
Surface Area = 6.17 sq-ft
Material Weight = 3.87 lbs
Center of Mass = (x=4.902", y=9.208", z=9.183")
Shape[-110.000 <= x <= 110.000] = 11
Shape[0.000 < x <= 110.000] = -2 * cos ((PI / 180) * (0.900 * x))
Shape[0.000 < x <= 110.000] = 2
HullFabric[1] = Upper Side
Desired Profile Usage = uniform (16.7%)
Desired Rotation = uniform
Calculated Rotation = 70.9 degree
Calculated Shape Offset = 7.263
Surface Area = 4.91 sq-ft
Material Weight = 3.08 lbs
Center of Mass = (x=-1.511", y=5.150", z=9.061")
Shape[-110.000 <= x <= 110.000] = 0
Shape[-110.000 <= x <= 110.000] = -0.5 * cos ((PI / 180) * (0.900 * x))
HullFabric[2] = Lower Side
Desired Profile Usage = uniform (16.7%)
Desired Rotation = uniform
Calculated Rotation = 32.1 degree
Calculated Shape Offset = 4.409
Surface Area = 4.32 sq-ft
Material Weight = 2.71 lbs
Center of Mass = (x=-1.390", y=2.254", z=7.117")
Shape[-110.000 <= x <= 110.000] = 0
Shape[-110.000 <= x <= 110.000] = -1.5 * cos ((PI / 180) * (0.900 * x))
HullFabric[3] = Keel Line
Desired Profile Usage = 50.0%
Desired Rotation = 5.0 degree
Calculated Rotation = 6.7 degree
Calculated Shape Offset = 0.000
Surface Area = 7.17 sq-ft
Material Weight = 4.49 lbs
Center of Mass = (x=-4.290", y=0.689", z=3.809")
Shape[-110.000 <= x <= 110.000] = -1.5 * cos ((PI / 180) * (0.900 * x))
Shape[-110.000 <= x <= 110.000] = 1.5

General Deck Statistics
Deck Length = 200.0 in = 16.67 ft
Deck Width = 28.0 in = 2.33 ft
Deck Bow (forward) Height = 13.0 in = 1.08 ft
Deck Center Height = 11.0 in = 0.92 ft
Deck Stern (aft) Height = 11.0 in = 0.92 ft
Deck Surface Area = 2.88 sq-ft
Aft Deck Surface Area = 0.97 sq-ft
Forward Deck Surface Area = 1.91 sq-ft
Forward volume under deck = 1.01 ft^3
Aft volume under deck = 0.30 ft^3
Deck Bird’s Eye View Area = 26.82 sq-ft
Deck Material+Finish Weight = 1.72 lbs
Deck Center of Mass = (x=23.149", y=11.898", z=0.000")

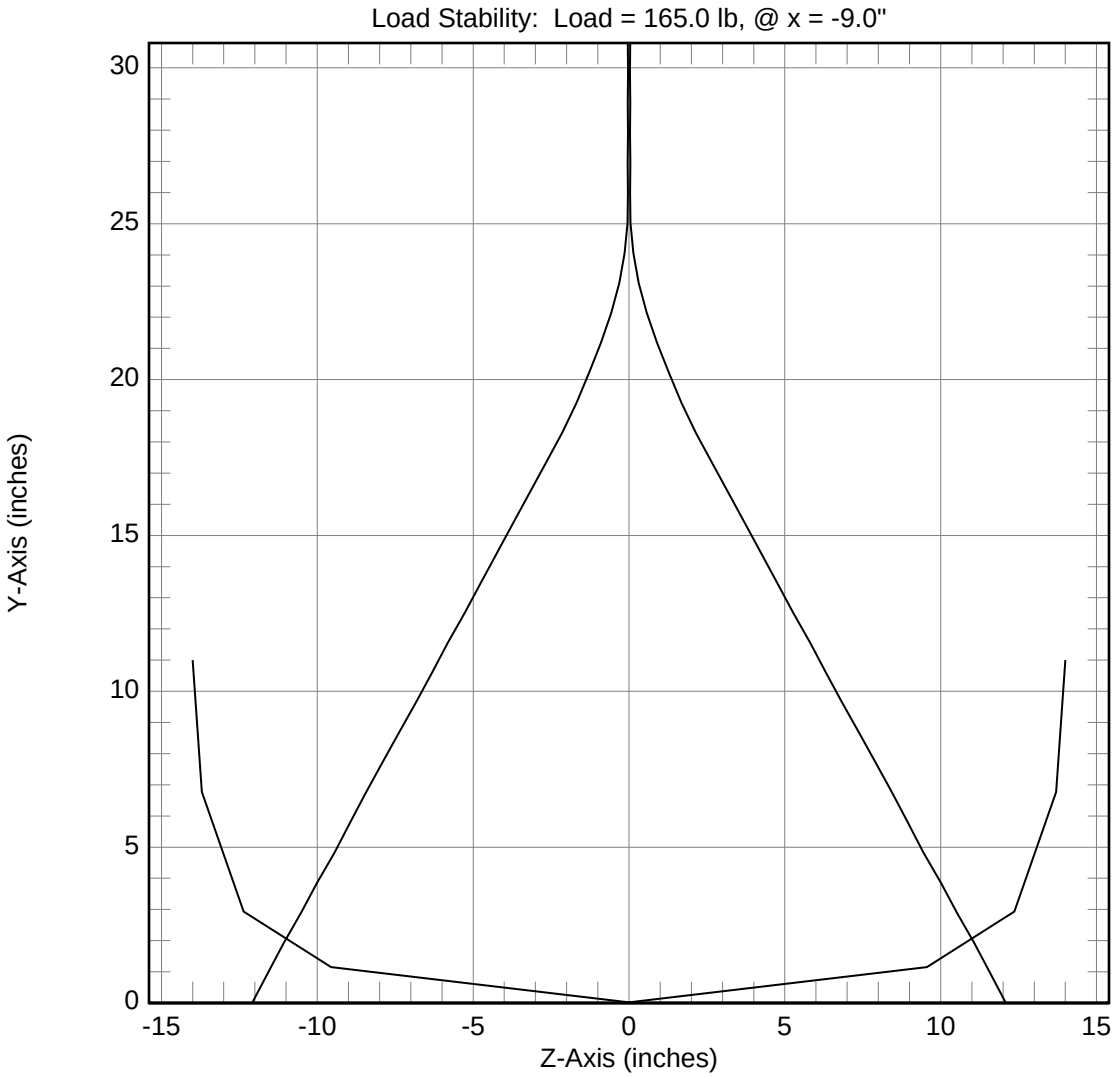
Deck Profile (re: User provided Rotation and ProfileUsage)
Shape[0.000 <= z <= 0.707] = 1 * z

Number Deck Fabric Planes = 1
  DeckFabric[0] = Deck
    Desired Profile Usage = uniform (100.0%)
    Desired Rotation = uniform
    Calculated Rotation = 0.0 degree
    Calculated Shape Offset = 0.000
    Surface Area = 1.44 sq-ft
    Material Weight = 0.86 lbs
    Center of Mass = (x=23.149", y=11.898", z=2.515")
    Shape[-110.000 <= x <= 110.000] = 11
    Shape[0.000 < x <= 110.000] = -2 *   cos ((PI / 180) * (0.900 * x))
    Shape[0.000 < x <= 110.000] = 2

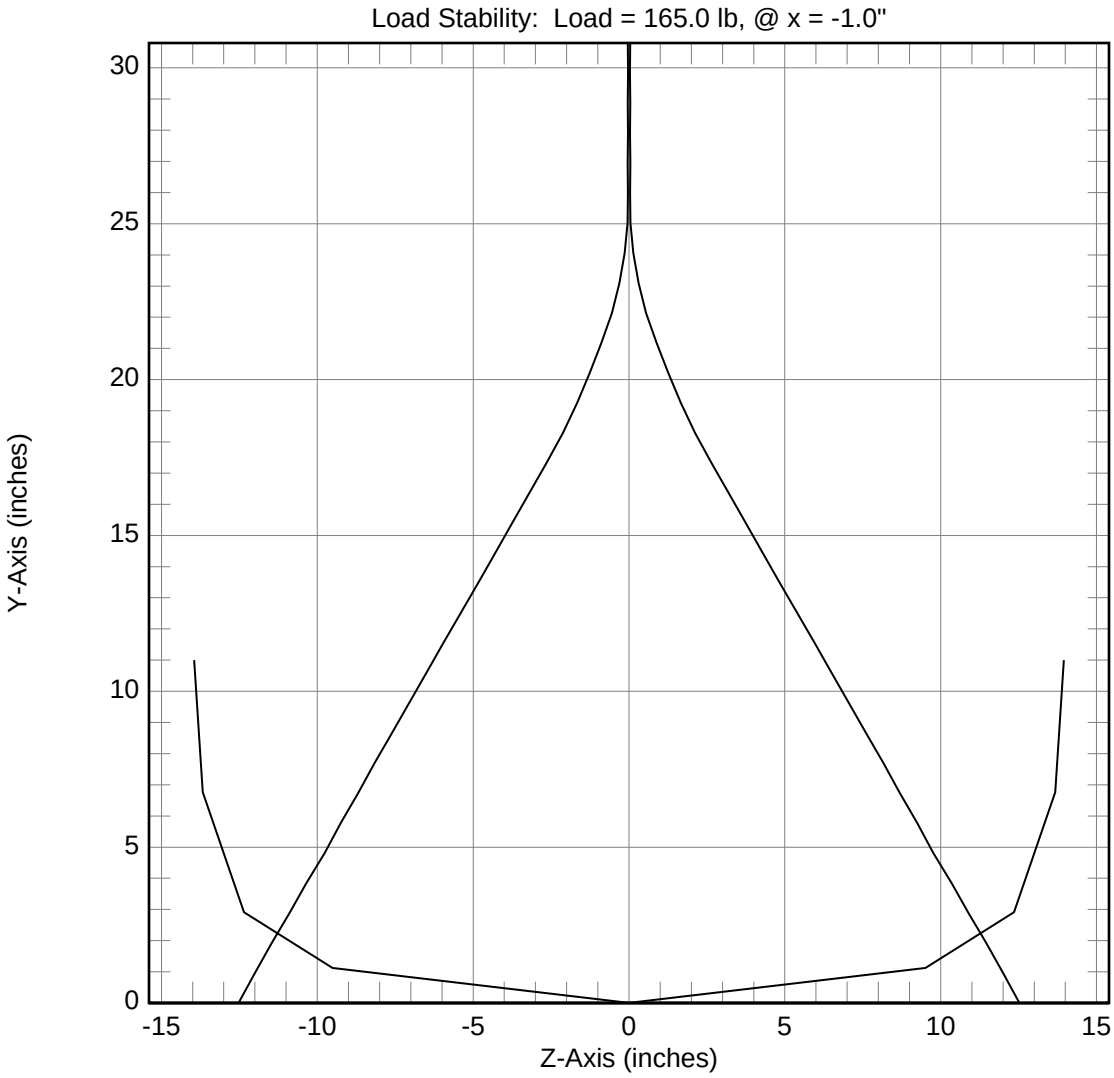
Deck CenterShape (@ z=0)
    Shape[0.000 < x <= 110.000] = -2 *   cos ((PI / 180) * (0.900 * x))
    Shape[0.000 < x <= 110.000] = 2
    Shape[-110.000 < x <= 110.000] = 11



Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Waterline(x=-17.0) = 4.3", Pitch = 0.7 deg, variable position load at stable point (z = -0.0")
Note: Lower curve is hull profile slice at x = -17.0"
Note: Area below upper curve is stability region for variable position load
Payload Profile:
Variable position load weight = 165.0 lb, at x = -17.0" <Rower on sliding seat>
Payload weight = 0.55 lb, @(65.9, 7.1, 0.0) <Fwd deck BH>
Payload weight = 0.37 lb, @(-77.8, 6.8, 0.0) <Aft deck BH>
Payload weight = 1.72 lb, @(23.1, 11.9, 0.0) <Deck weight (calculated)>
Payload weight = 28.30 lb, @(-0.6, 4.3, 0.0) <Hull weight (calculated)>
Payload weight = 1.60 lb, @(0.0, 0.0, 0.0) <Keel protector (0.75" wide x 1/32") brass>
Payload weight = 1.10 lb, @(0.0, 0.0, 0.0) <Keel protector (0.75"x0.25" white oak)>
Payload weight = 3.50 lb, @(0.0, 11.0, 0.0) <Deck perimeter (0.5"x0.75" rounded white oak) trim>
Payload weight = 8.00 lb, @(-13.0, 14.0, 0.0) <Rowing Oars (x2)>
Payload weight = 1.00 lb, @(-20.0, 1.0, 0.0) <Wood runner inside at keel (36")>
Payload weight = 2.00 lb, @(-15.0, 5.0, 0.0) <Wood support for seat & deck>
Payload weight = 1.50 lb, @(-34.0, 6.0, 0.0) <Bulkhead for rig & foot stretcher>
Payload weight = 1.50 lb, @(3.0, 5.0, 0.0) <Sliding seat & 32" rails>
Payload weight = 1.50 lb, @(-36.0, 4.0, 0.0) <Foot stretcher>
Payload weight = 5.00 lb, @(-27.0, 12.0, 0.0) <Rowing Rig (Hudson)>
Payload weight = 100.00 lb, @(0.0, 4.0, 0.0) <Normal payload stuff>



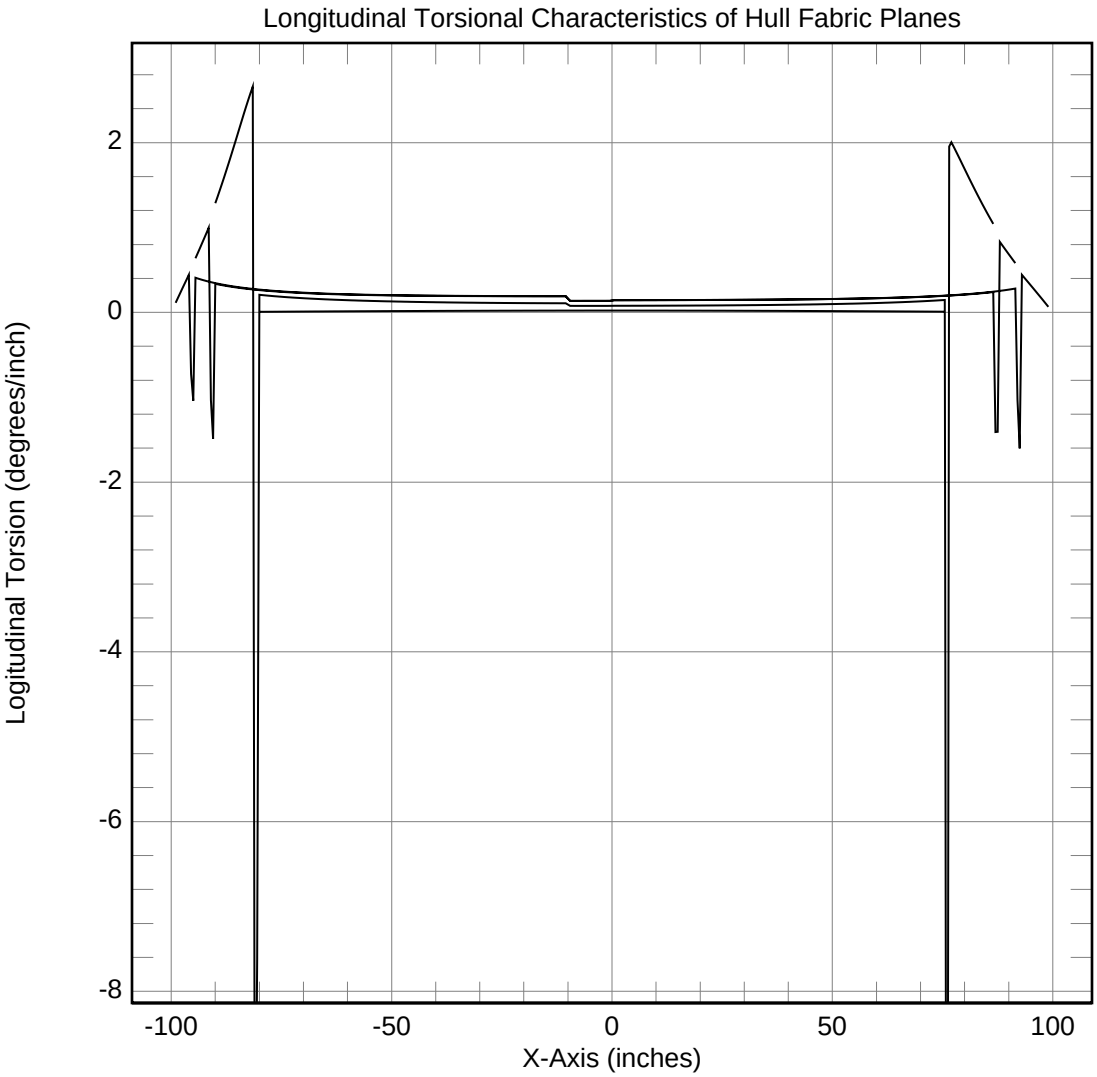
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Waterline(x=-9.0) = 4.2", Pitch = 0.2 deg, variable position load at stable point (z = -0.0")
Note: Lower curve is hull profile slice at x = -9.0"
Note: Area below upper curve is stability region for variable position load
Payload Profile:
Variable position load weight = 165.0 lb, at x = -9.0" <Rower on sliding seat>
Payload weight = 0.55 lb, @(65.9, 7.1, 0.0) <Fwd deck BH>
Payload weight = 0.37 lb, @(-77.8, 6.8, 0.0) <Aft deck BH>
Payload weight = 1.72 lb, @(23.1, 11.9, 0.0) <Deck weight (calculated)>
Payload weight = 28.30 lb, @(-0.6, 4.3, 0.0) <Hull weight (calculated)>
Payload weight = 1.60 lb, @(0.0, 0.0, 0.0) <Keel protector (0.75" wide x 1/32") brass>
Payload weight = 1.10 lb, @(0.0, 0.0, 0.0) <Keel protector (0.75"x0.25" white oak)>
Payload weight = 3.50 lb, @(0.0, 11.0, 0.0) <Deck perimeter (0.5"x0.75" rounded white oak) trim>
Payload weight = 8.00 lb, @(-13.0, 14.0, 0.0) <Rowing Oars (x2)>
Payload weight = 1.00 lb, @(-20.0, 1.0, 0.0) <Wood runner inside at keel (36")>
Payload weight = 2.00 lb, @(-15.0, 5.0, 0.0) <Wood support for seat & deck>
Payload weight = 1.50 lb, @(-34.0, 6.0, 0.0) <Bulkhead for rig & foot stretcher>
Payload weight = 1.50 lb, @(3.0, 5.0, 0.0) <Sliding seat & 32" rails>
Payload weight = 1.50 lb, @(-36.0, 4.0, 0.0) <Foot stretcher>
Payload weight = 5.00 lb, @(-27.0, 12.0, 0.0) <Rowing Rig (Hudson)>
Payload weight = 100.00 lb, @(0.0, 4.0, 0.0) <Normal payload stuff>



Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Waterline(x=-1.0) = 4.1", Pitch = -0.1 deg, variable position load at stable point (z = -0.0")
Note: Lower curve is hull profile slice at x = -1.0"
Note: Area below upper curve is stability region for variable position load
Payload Profile:
Variable position load weight = 165.0 lb, at x = -1.0" <Rower on sliding seat>
Payload weight = 0.55 lb, @(65.9, 7.1, 0.0) <Fwd deck BH>
Payload weight = 0.37 lb, @(-77.8, 6.8, 0.0) <Aft deck BH>
Payload weight = 1.72 lb, @(23.1, 11.9, 0.0) <Deck weight (calculated)>
Payload weight = 28.30 lb, @(-0.6, 4.3, 0.0) <Hull weight (calculated)>
Payload weight = 1.60 lb, @(0.0, 0.0, 0.0) <Keel protector (0.75" wide x 1/32") brass>
Payload weight = 1.10 lb, @(0.0, 0.0, 0.0) <Keel protector (0.75"x0.25" white oak)>
Payload weight = 3.50 lb, @(0.0, 11.0, 0.0) <Deck perimeter (0.5"x0.75" rounded white oak) trim>
Payload weight = 8.00 lb, @(-13.0, 14.0, 0.0) <Rowing Oars (x2)>
Payload weight = 1.00 lb, @(-20.0, 1.0, 0.0) <Wood runner inside at keel (36")>
Payload weight = 2.00 lb, @(-15.0, 5.0, 0.0) <Wood support for seat & deck>
Payload weight = 1.50 lb, @(-34.0, 6.0, 0.0) <Bulkhead for rig & foot stretcher>
Payload weight = 1.50 lb, @(3.0, 5.0, 0.0) <Sliding seat & 32" rails>
Payload weight = 1.50 lb, @(-36.0, 4.0, 0.0) <Foot stretcher>
Payload weight = 5.00 lb, @(-27.0, 12.0, 0.0) <Rowing Rig (Hudson)>
Payload weight = 100.00 lb, @(0.0, 4.0, 0.0) <Normal payload stuff>

Pitch and Roll Analysis
Program Name (Ver. 0.22) = mb.exe
Command File = wherry.cmd
Command File Last Modified Time = Fri Oct 29 19:09:16 2004
Execution Time = Fri Oct 29 19:09:40 2004
Positive pitch/roll means list towards stern/starboard
Total Load = 322.63 lb - Variable Position Load = 165.00 lb

Depth(in)	Pitch(deg)	Roll(deg)	VariableLoad(x,y,z)	Status
D=4.11	P=0.66	R=-0.00	@VL(-17.00, 15.00, 0.00)	Afloat
D=4.06	P=0.70	R=-5.55	@VL(-17.00, 15.00, 1.00)	Afloat
D=3.89	P=0.70	R=-11.82	@VL(-17.00, 15.00, 2.00)	Afloat
D=3.56	P=0.70	R=-18.77	@VL(-17.00, 15.00, 3.00)	Afloat
D=2.73	P=0.69	R=-28.97	@VL(-17.00, 15.00, 4.00)	Sinking
D=-4.51	P=1.18	R=-90.66	@VL(-17.00, 15.00, 5.00)	Unstable
D=-4.48	P=1.19	R=-90.42	@VL(-17.00, 15.00, 6.00)	Unstable
D=-4.44	P=1.20	R=-90.00	@VL(-17.00, 15.00, 7.00)	Unstable
D=4.14	P=0.21	R=-0.00	@VL(-9.00, 15.00, 0.00)	Afloat
D=4.09	P=0.27	R=-5.55	@VL(-9.00, 15.00, 1.00)	Afloat
D=3.93	P=0.27	R=-11.81	@VL(-9.00, 15.00, 2.00)	Afloat
D=3.59	P=0.27	R=-18.83	@VL(-9.00, 15.00, 3.00)	Afloat
D=2.73	P=0.24	R=-29.37	@VL(-9.00, 15.00, 4.00)	Sinking
D=-4.48	P=0.46	R=-90.98	@VL(-9.00, 15.00, 5.00)	Unstable
D=-4.38	P=0.49	R=-90.04	@VL(-9.00, 15.00, 6.00)	Unstable
D=-4.37	P=0.49	R=-90.00	@VL(-9.00, 15.00, 7.00)	Unstable
D=4.14	P=-0.11	R=-0.00	@VL(-1.00, 15.00, 0.00)	Afloat
D=4.11	P=-0.14	R=-5.56	@VL(-1.00, 15.00, 1.00)	Afloat
D=3.95	P=-0.15	R=-11.87	@VL(-1.00, 15.00, 2.00)	Afloat
D=3.61	P=-0.16	R=-18.92	@VL(-1.00, 15.00, 3.00)	Afloat
D=2.68	P=-0.20	R=-30.08	@VL(-1.00, 15.00, 4.00)	Sinking
D=-4.43	P=-0.23	R=-90.63	@VL(-1.00, 15.00, 5.00)	Unstable
D=-4.41	P=-0.22	R=-90.47	@VL(-1.00, 15.00, 6.00)	Unstable
D=-4.36	P=-0.21	R=-90.00	@VL(-1.00, 15.00, 7.00)	Unstable



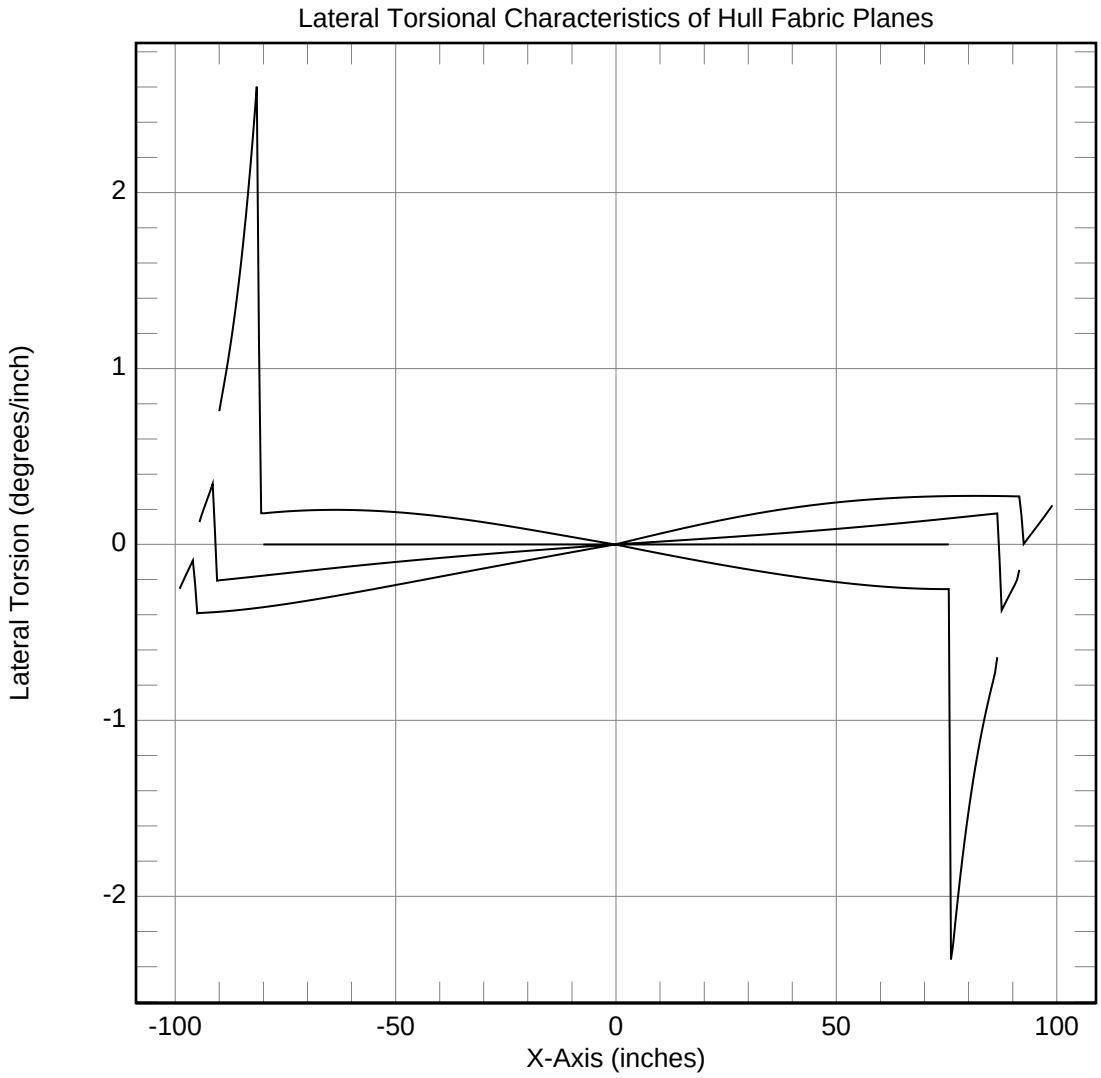
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Longitudinal torsion is caused by length-wise bending of the fabric planes to fit shape contours.
Endpoint characteristics for each plane - (x{inches}, Torsion{degress/inch}):

Plane[0] <Top Shape>
Start @(-99.00, 0.11), End @(99.00, 0.07)
Longitudinal bending: Stern-Center = 20.88 deg, Center-Bow = 15.80 deg, Total = 36.68 deg

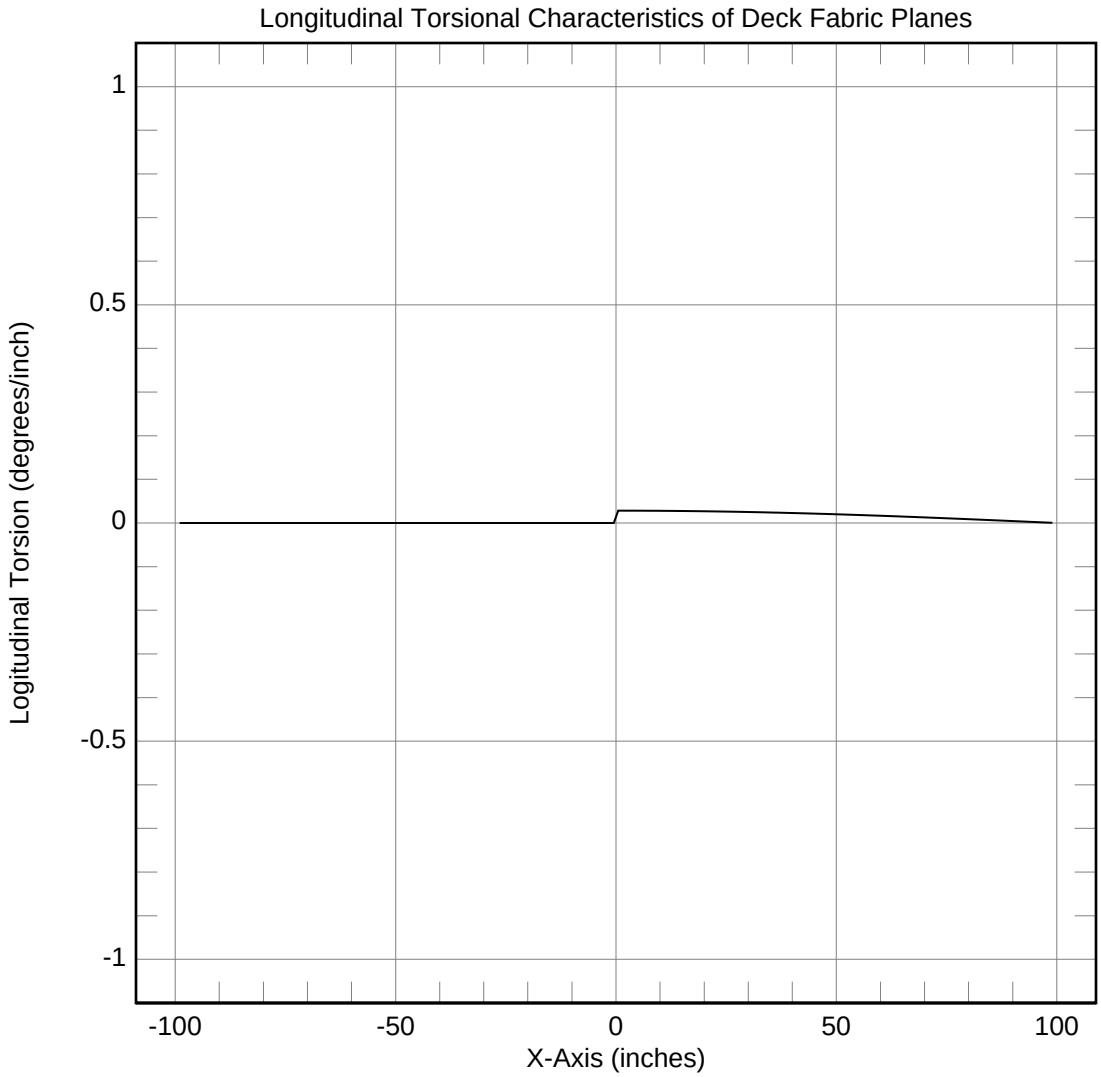
Plane[1] <Upper Side>
Start @(-94.50, 0.64), End @(91.50, 0.58)
Longitudinal bending: Stern-Center = 20.43 deg, Center-Bow = 15.49 deg, Total = 35.93 deg

Plane[2] <Lower Side>
Start @(-90.00, 1.29), End @(86.50, 1.04)
Longitudinal bending: Stern-Center = 18.49 deg, Center-Bow = 14.75 deg, Total = 33.25 deg

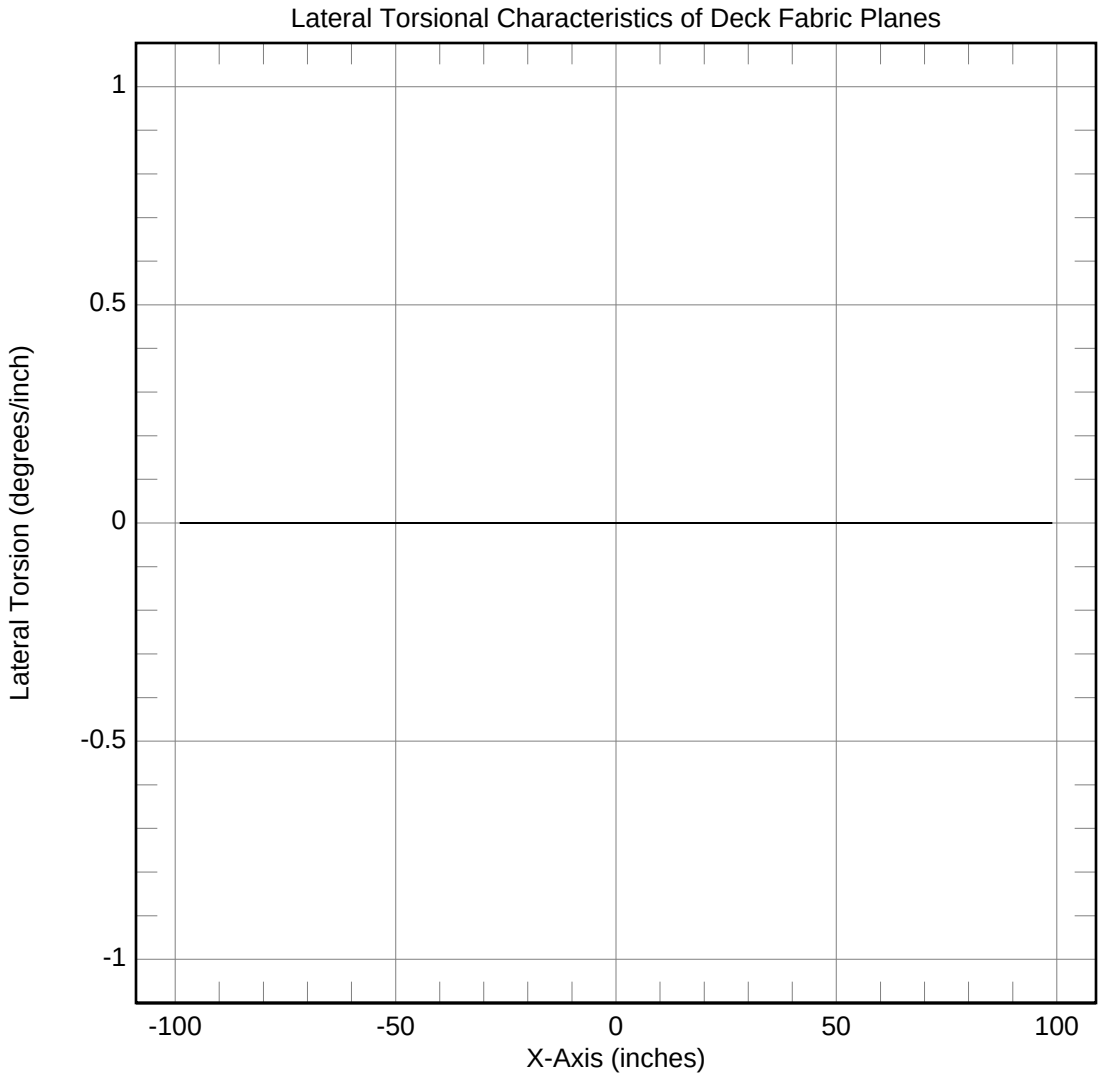
Plane[3] <Keel Line>
Start @(-80.00, 0.01), End @(75.50, 0.01)
Longitudinal bending: Stern-Center = 1.29 deg, Center-Bow = 1.23 deg, Total = 2.52 deg



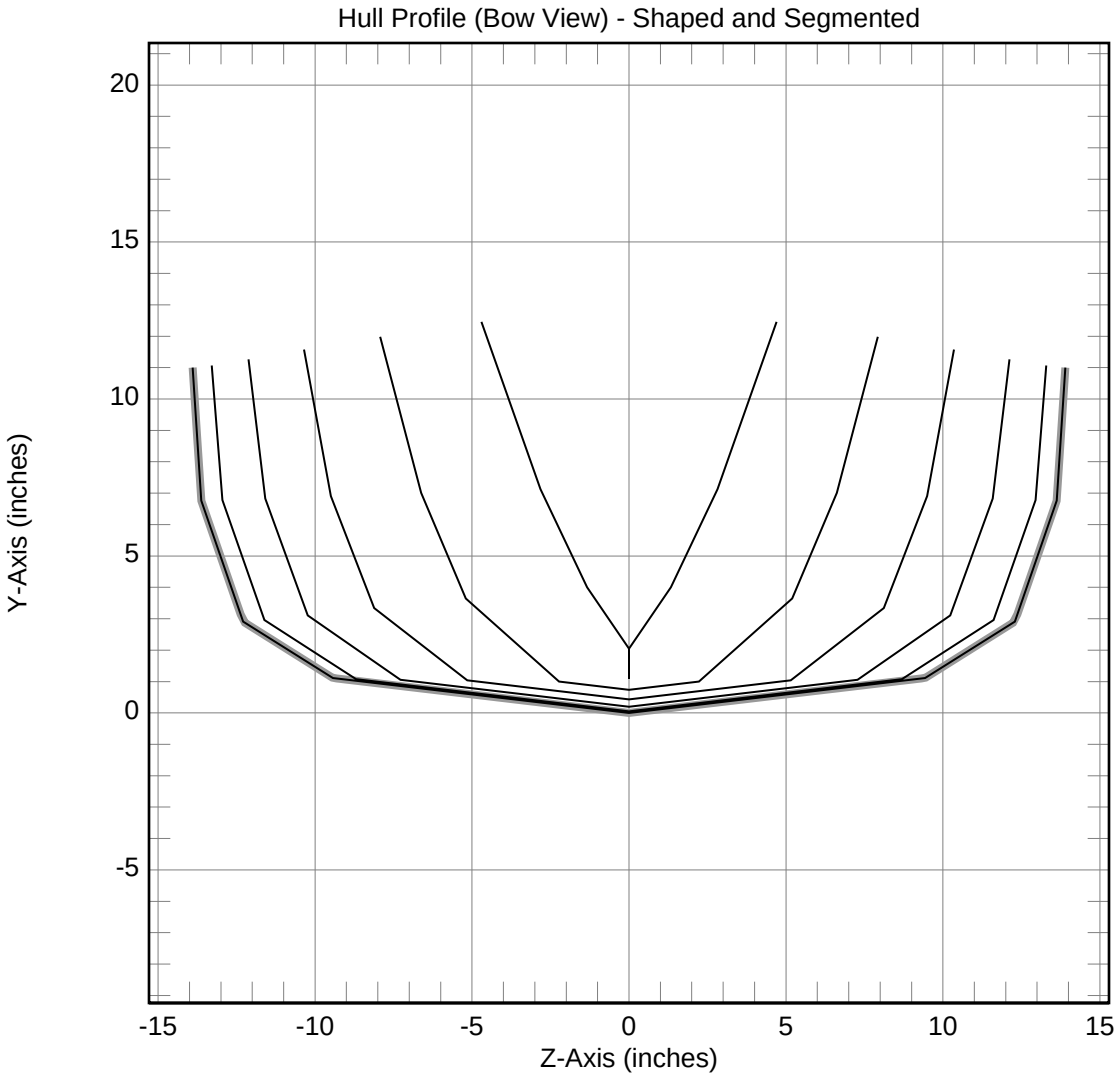
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Lateral torsion is caused by width-wise twisting of the fabric planes for the Bow/Stern angles.
Endpoint characteristics for each plane - (x{inches}, Torsion{degress/inch}):
  Plane[0] <Top Shape>
    Start @(-99.00, -0.25), End @(99.00, 0.22)
    Lateral bending: Stern-Center = -20.86 deg, Center-Bow = 18.77 deg, Total = -2.09 deg
  Plane[1] <Upper Side>
    Start @(-94.50, 0.13), End @(91.50, -0.14)
    Lateral bending: Stern-Center = -7.42 deg, Center-Bow = 5.65 deg, Total = -1.76 deg
  Plane[2] <Lower Side>
    Start @(-90.00, 0.76), End @(86.50, -0.64)
    Lateral bending: Stern-Center = 25.64 deg, Center-Bow = -27.29 deg, Total = -1.66 deg
  Plane[3] <Keel Line>
    Start @(-80.00, 0.00), End @(75.50, 0.00)
    Lateral bending: Stern-Center = 0.00 deg, Center-Bow = 0.00 deg, Total = 0.00 deg



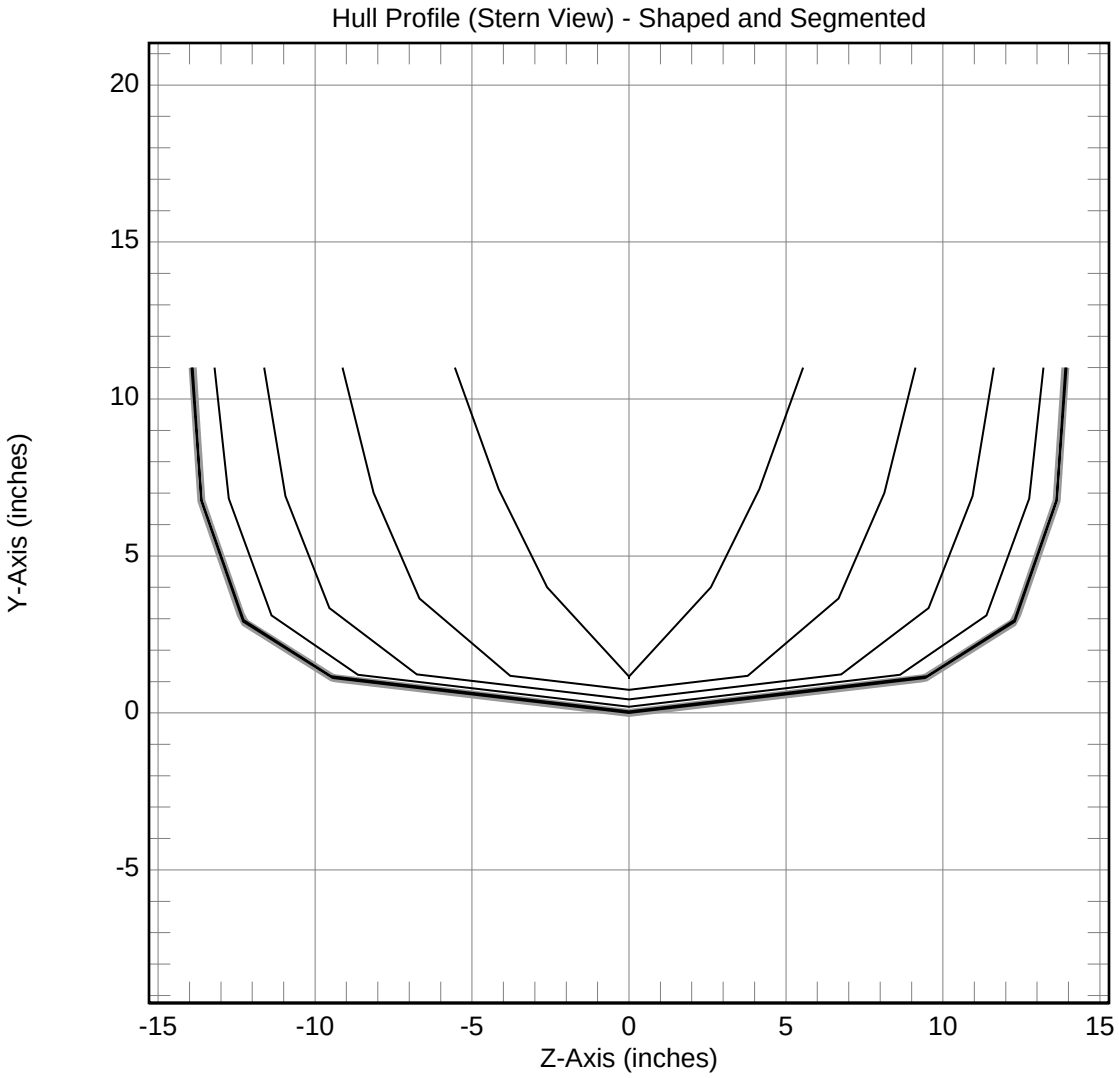
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Longitudinal torsion is caused by length-wise bending of the fabric planes to fit shape contours.
Endpoint characteristics for each plane - (x{inches}, Torsion{degress/inch}):
Plane[0] <Deck>
Start @(-99.00, 0.00), End @(99.00, 0.00)
Longitudinal bending: Stern-Center = 0.02 deg, Center-Bow = 1.78 deg, Total = 1.80 deg



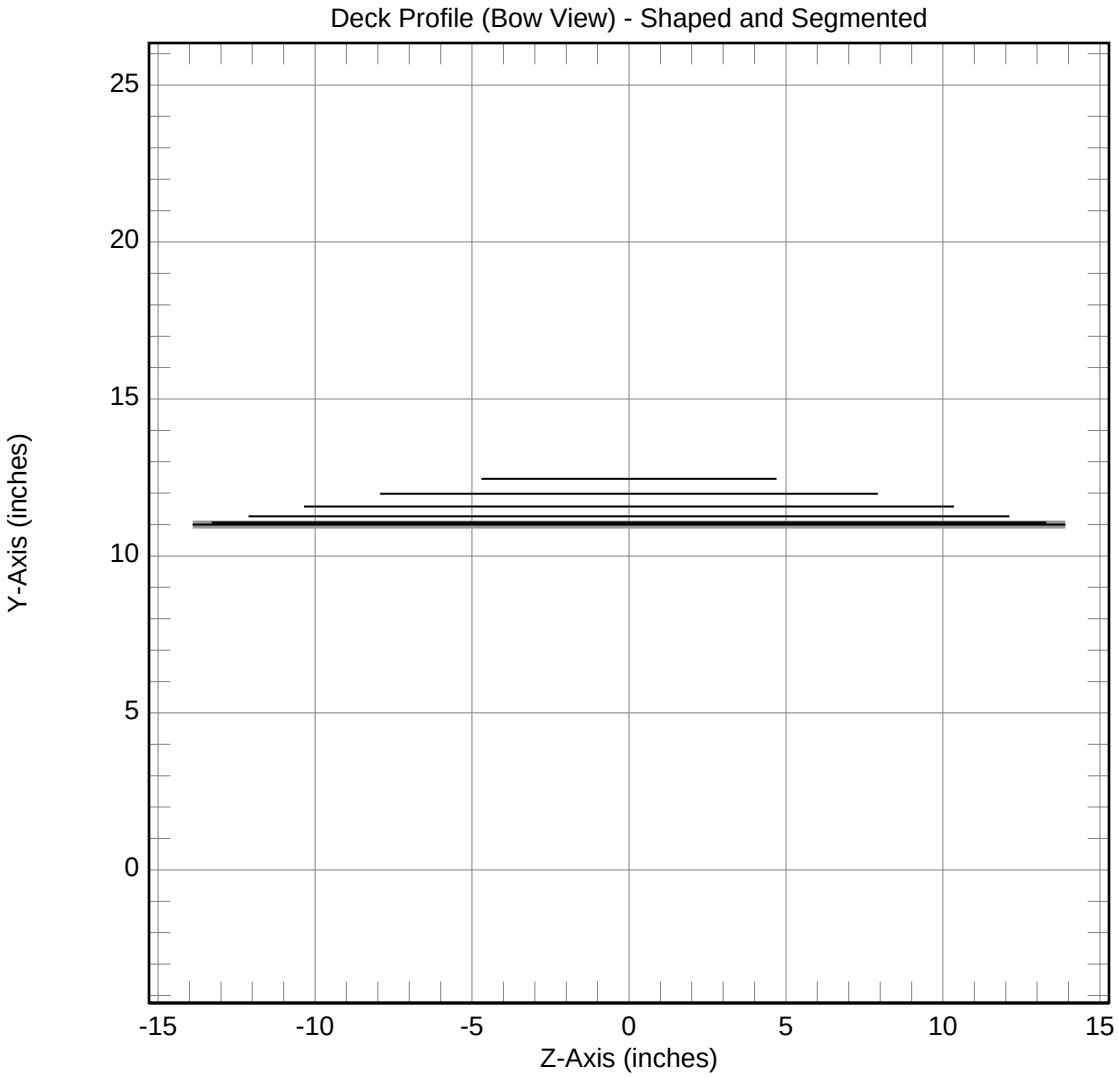
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Lateral torsion is caused by width-wise twisting of the fabric planes for the Bow/Stern angles.
Endpoint characteristics for each plane - (x{inches}, Torsion{degress/inch}):
 Plane[0] <Deck>
  Start @(-99.00, 0.00), End @(99.00, 0.00)
  Lateral bending: Stern-Center = -0.00 deg, Center-Bow = -0.00 deg, Total = -0.00 deg



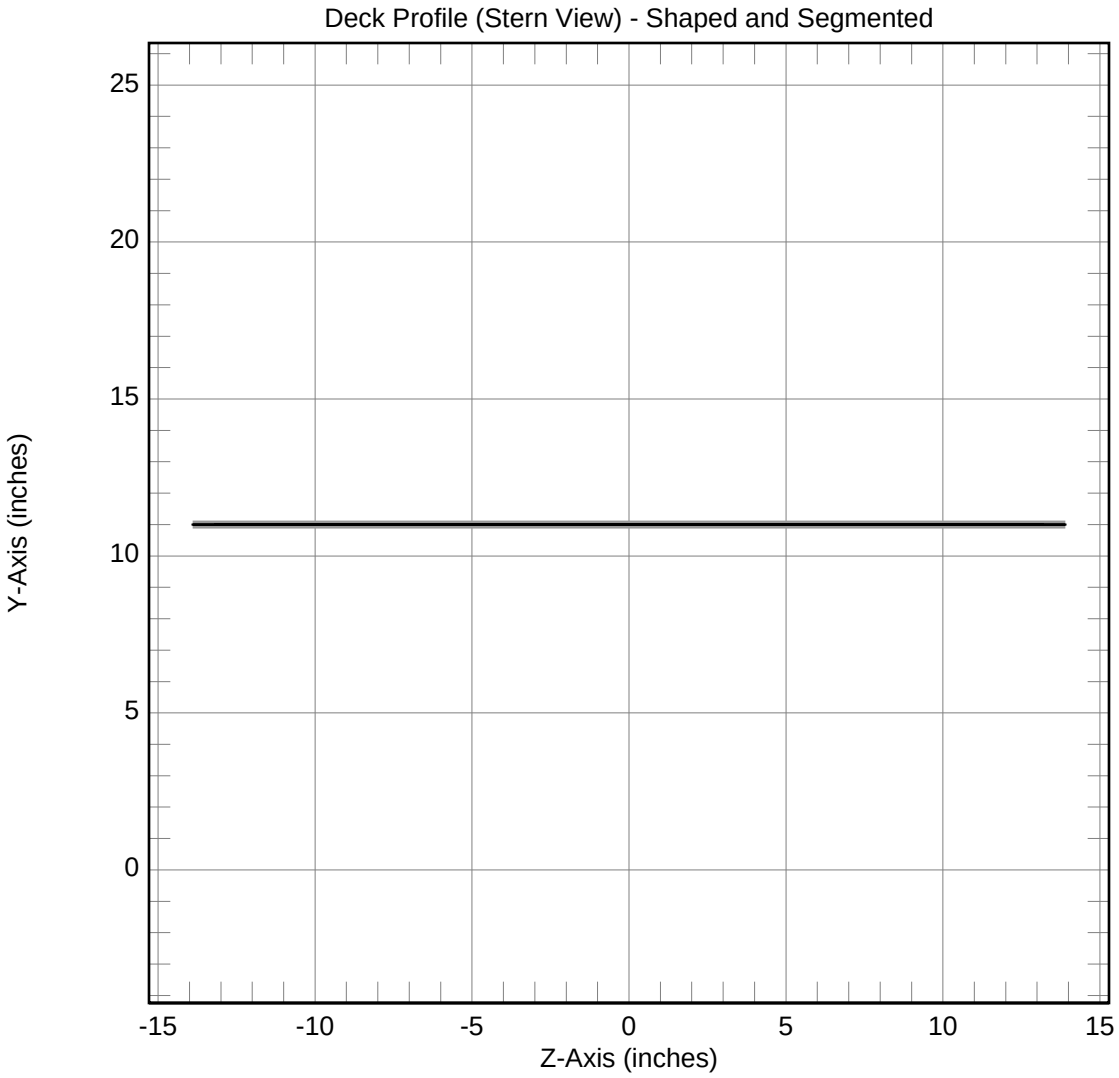
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Slice locations:
x = -0.00"
x = 16.50"
x = 33.00"
x = 49.50"
x = 66.00"
x = 82.50"



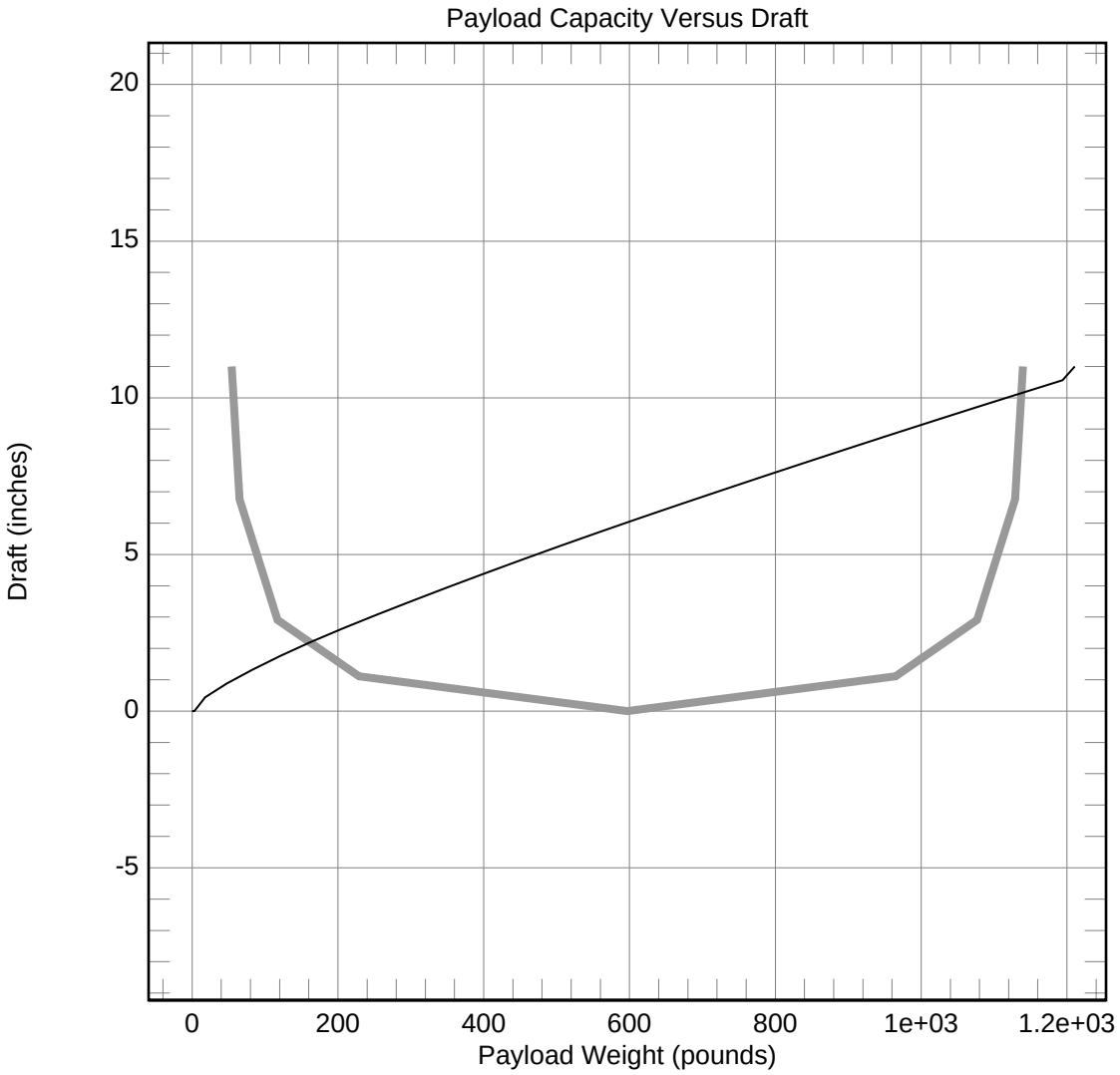
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Slice locations:
x = -0.00"
x = -16.50"
x = -33.00"
x = -49.50"
x = -66.00"
x = -82.50"



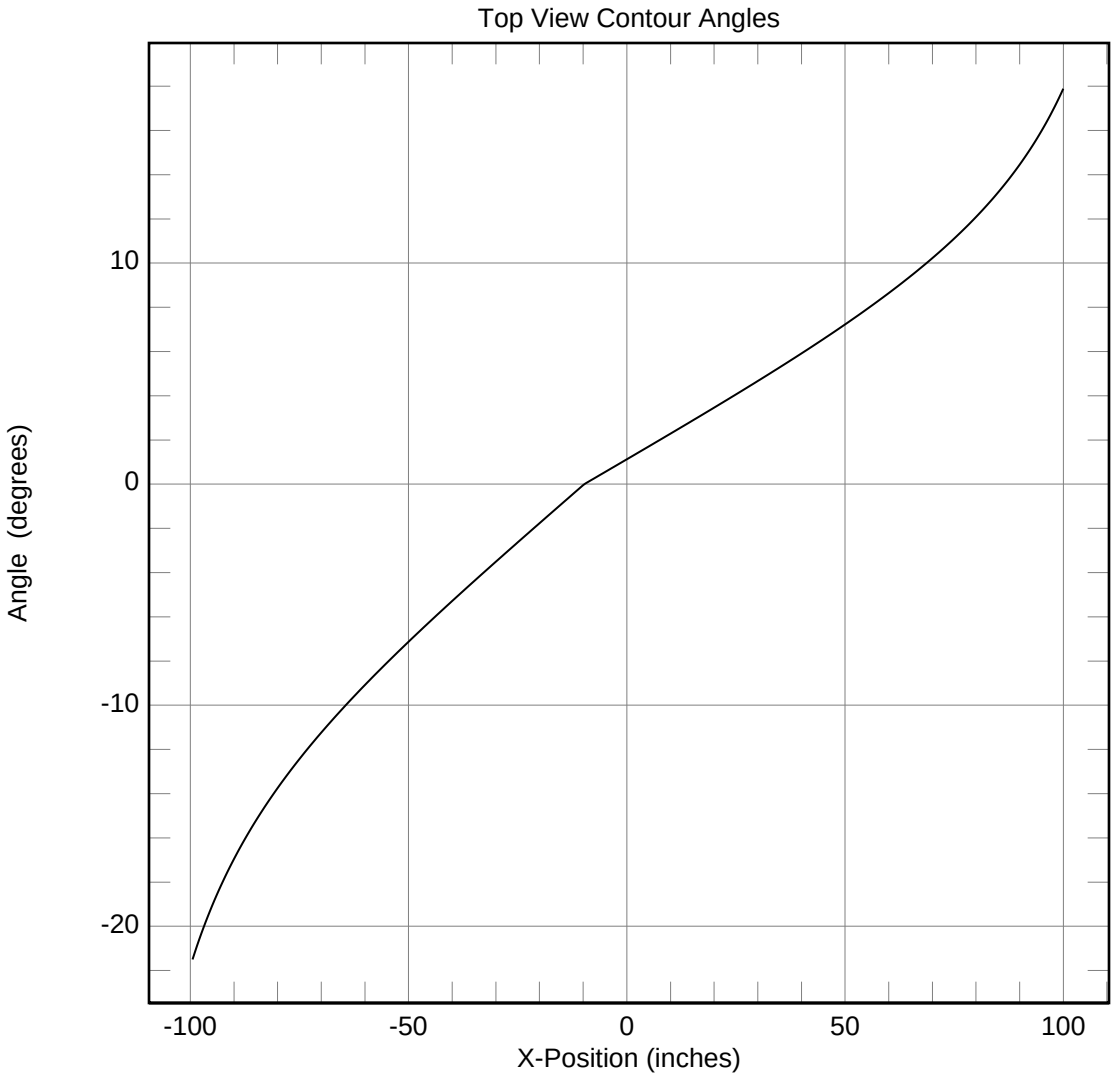
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Slice locations:
x = -0.00"
x = 16.50"
x = 33.00"
x = 49.50"
x = 66.00"
x = 82.50"



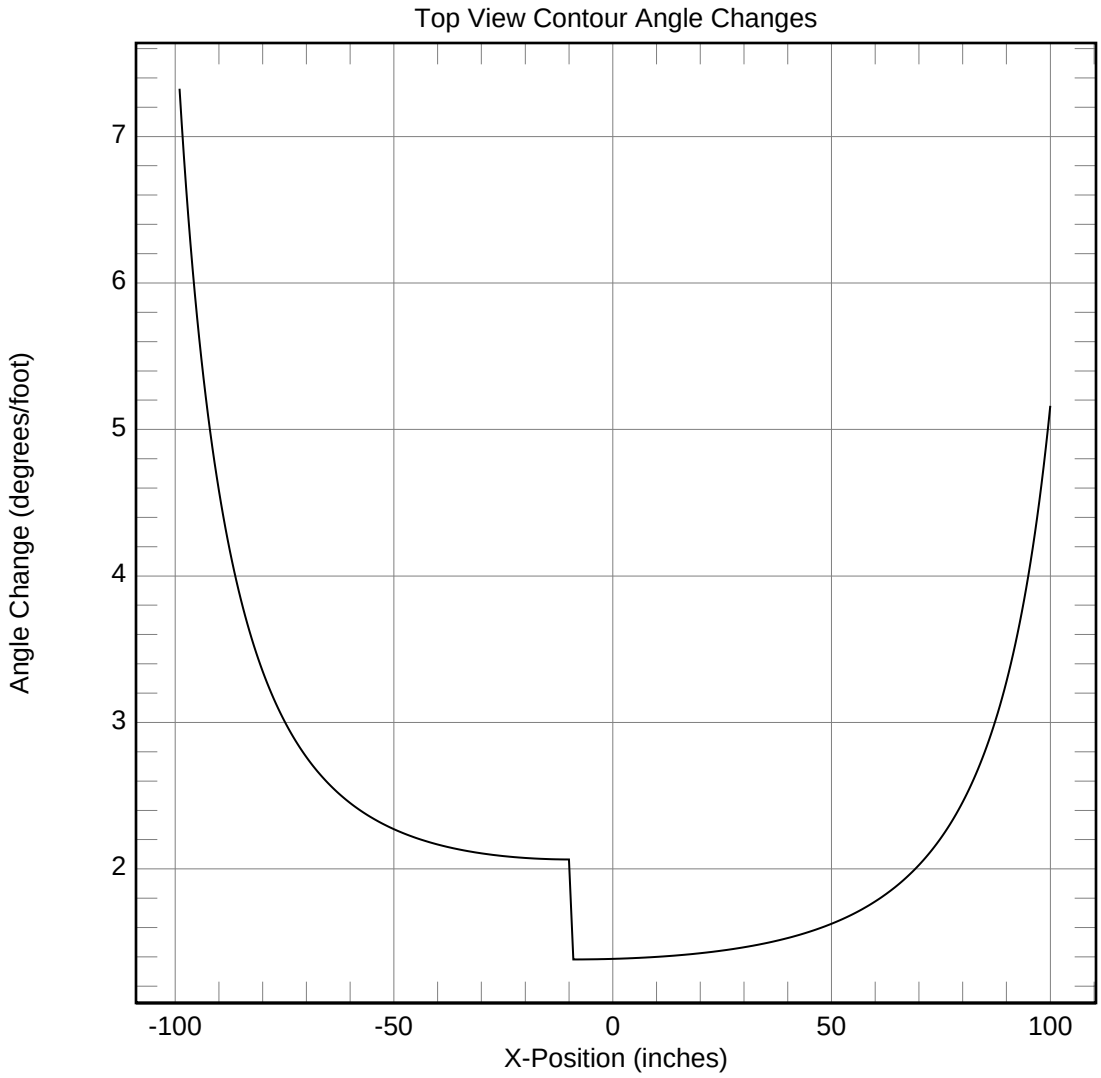
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Slice locations:
x = -0.00"
x = -16.50"
x = -33.00"
x = -49.50"
x = -66.00"
x = -82.50"



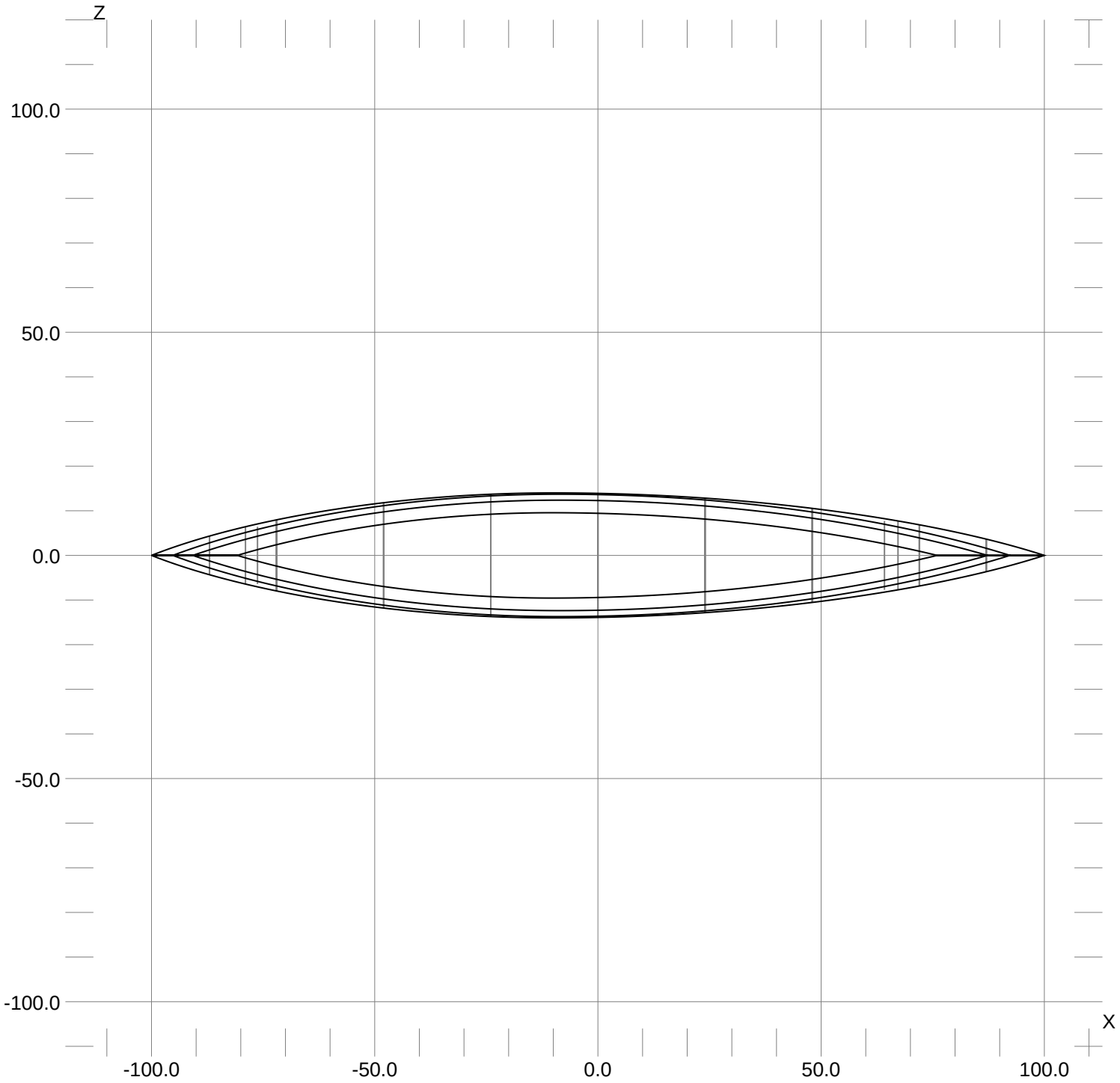
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004
Note: Payload plot does not incorporate boat weight



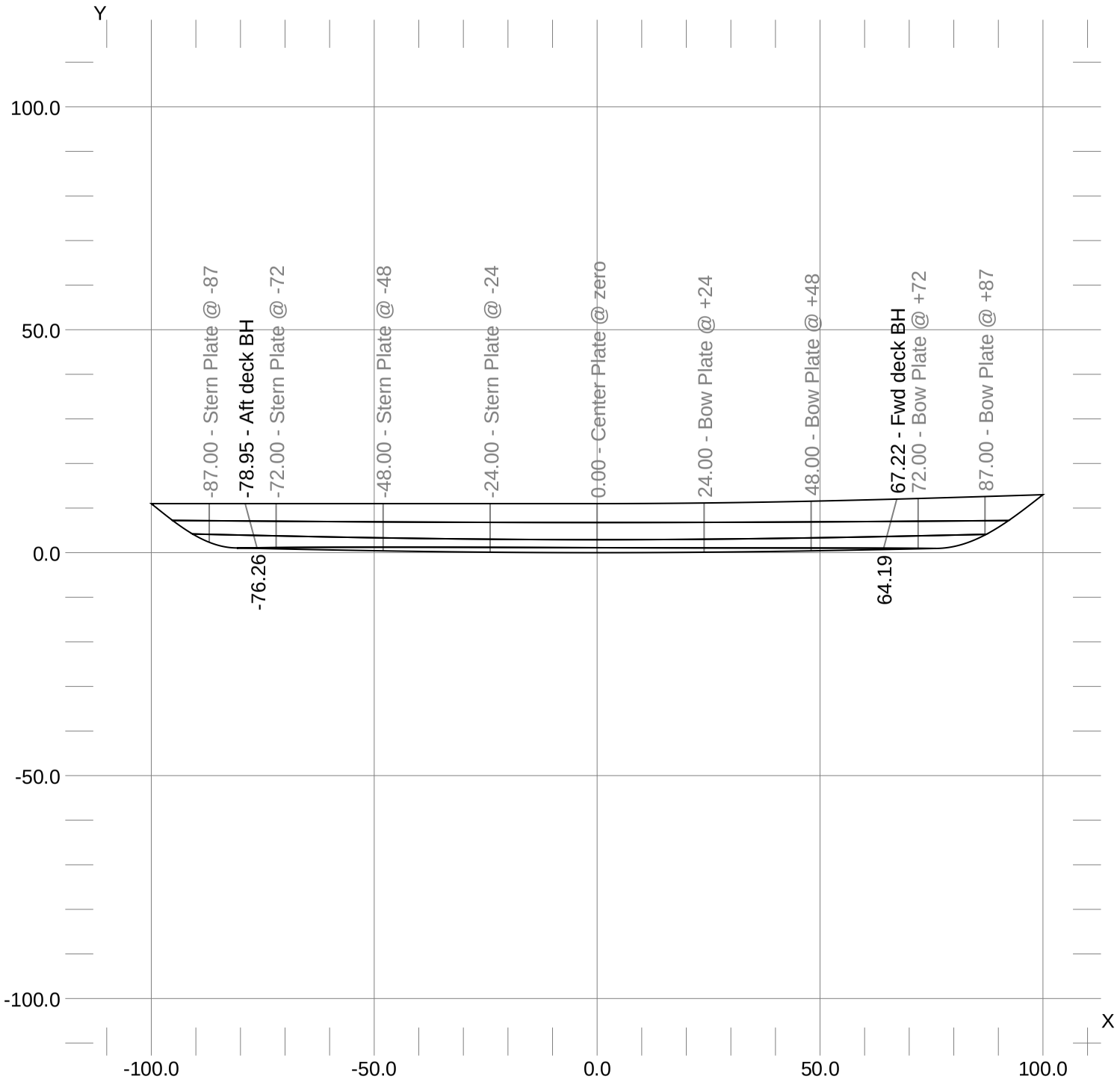
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004



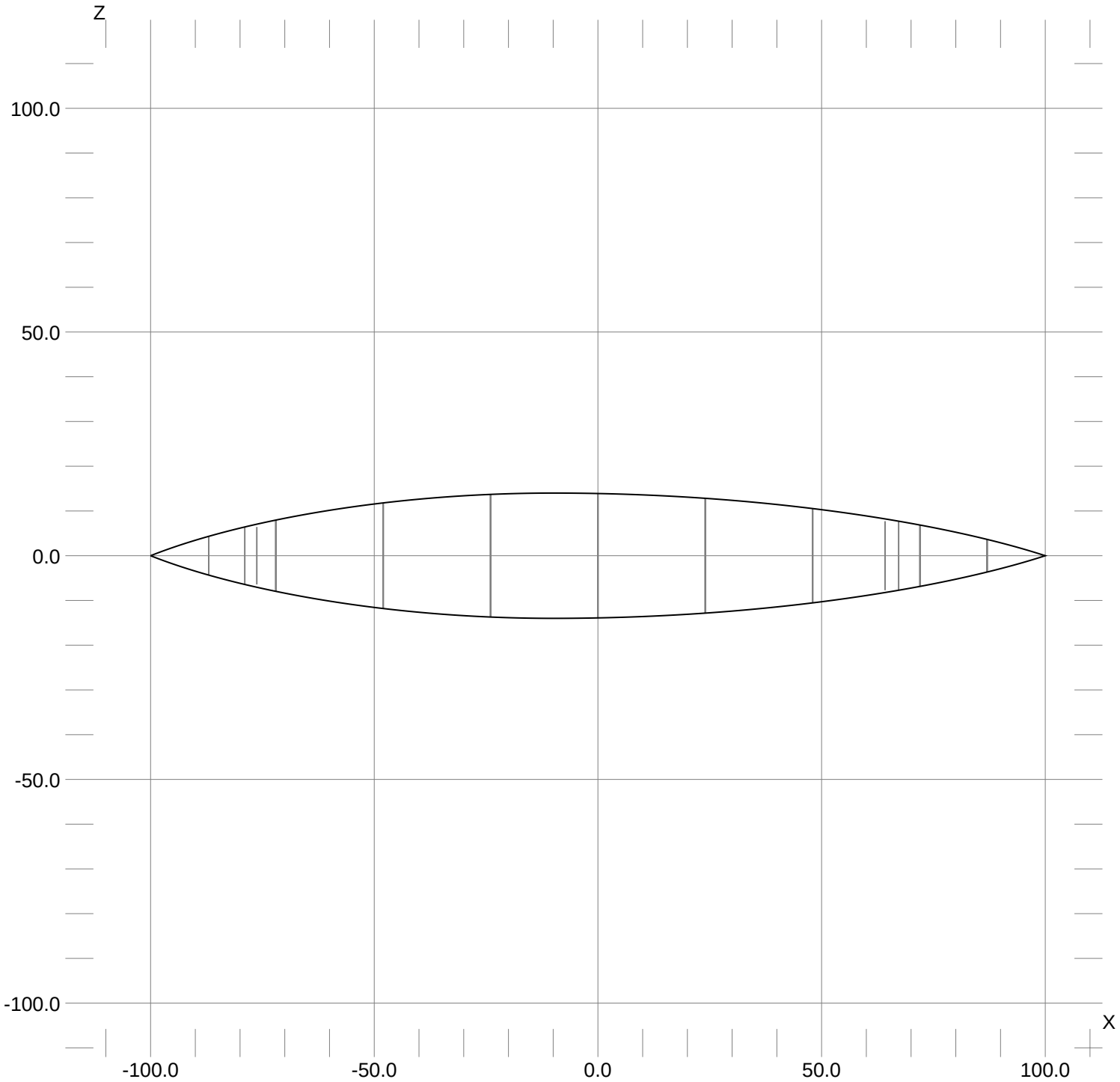
Command File: <wherry.cmd>, last modified on Fri Oct 29 19:09:16 2004
Execution time on Fri Oct 29 19:09:40 2004



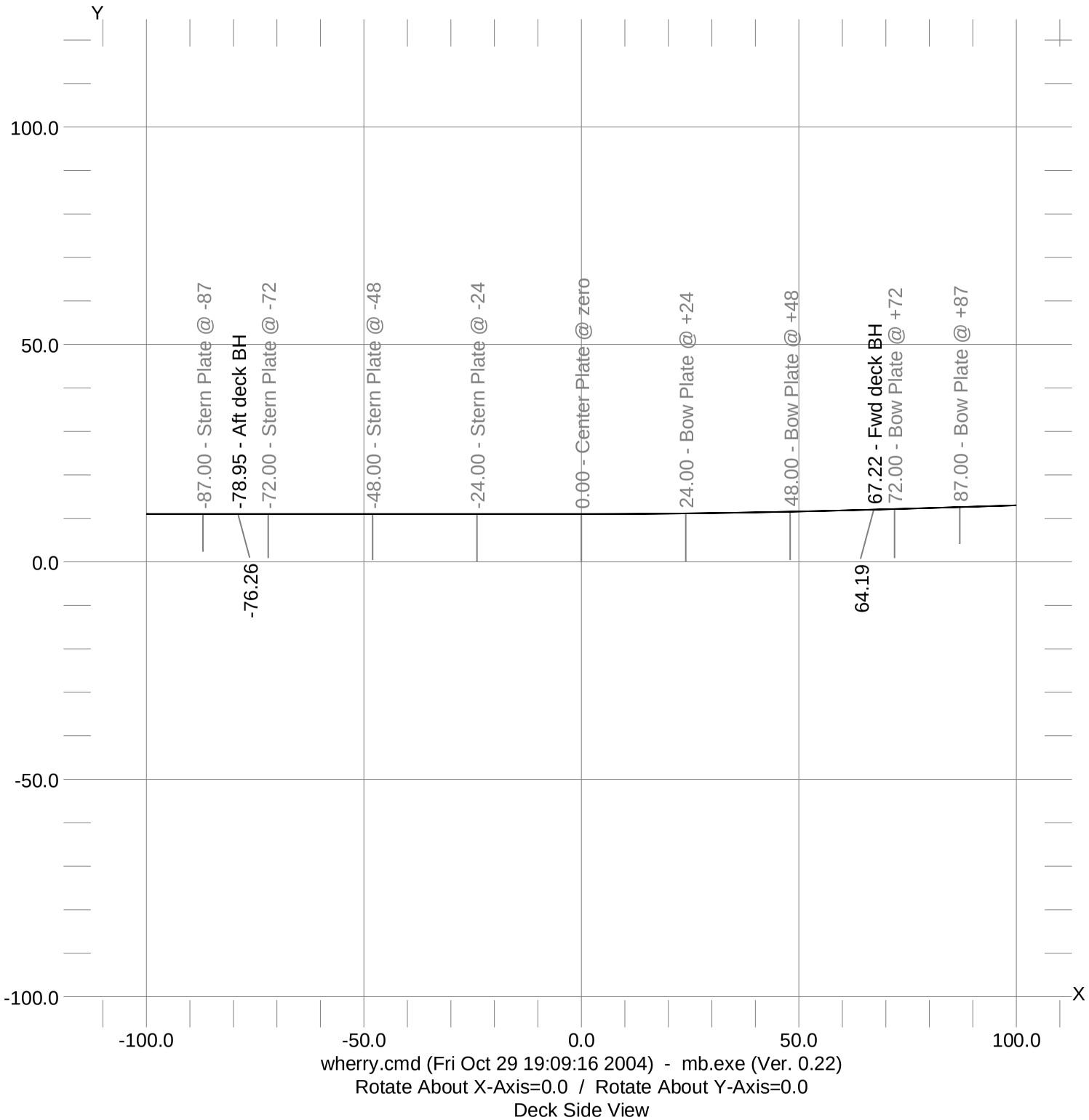
wherry.cmd (Fri Oct 29 19:09:16 2004) - mb.exe (Ver. 0.22)
Rotate About X-Axis=90.0 / Rotate About Y-Axis=0.0
Hull Top View



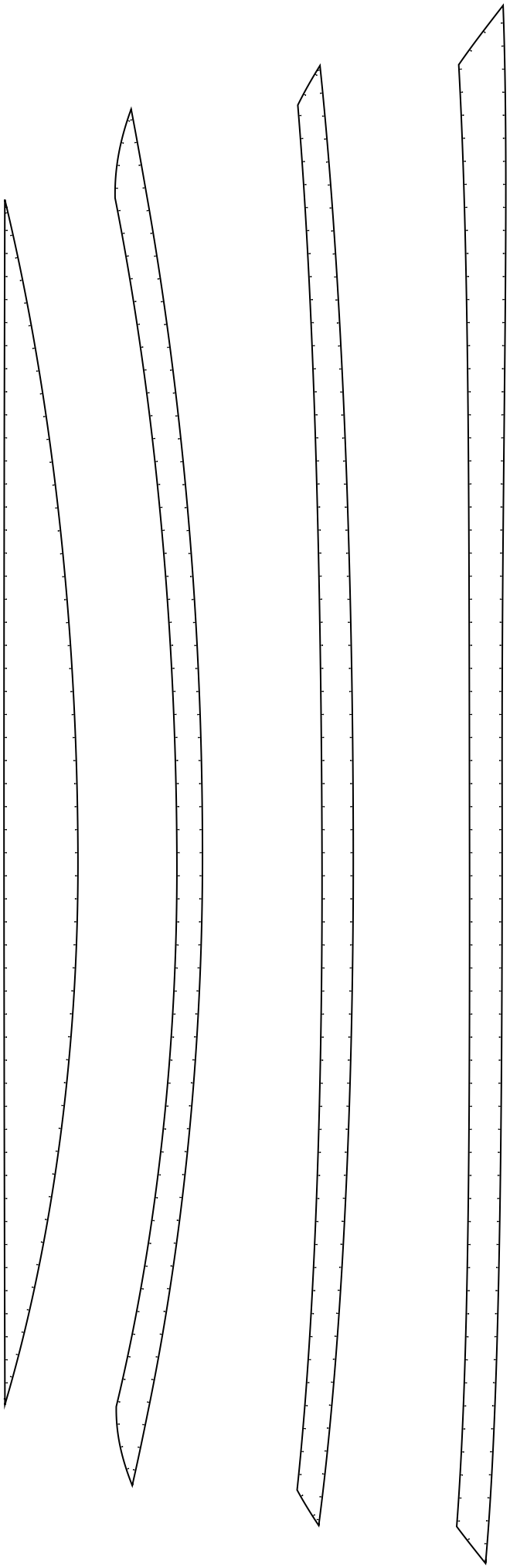
wherry.cmd (Fri Oct 29 19:09:16 2004) - mb.exe (Ver. 0.22)
Rotate About X-Axis=0.0 / Rotate About Y-Axis=0.0
Hull Side View



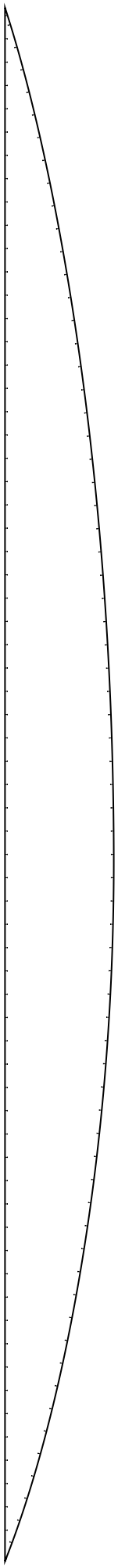
wherry.cmd (Fri Oct 29 19:09:16 2004) - mb.exe (Ver. 0.22)
Rotate About X-Axis=90.0 / Rotate About Y-Axis=0.0
Deck Top View



wherry.cmd (Fri Oct 29 19:09:16 2004) - mb.exe (Ver. 0.22)
Rotate About X-Axis=0.0 / Rotate About Y-Axis=0.0
Deck Side View



Hull Templates, Scale = 5.18%



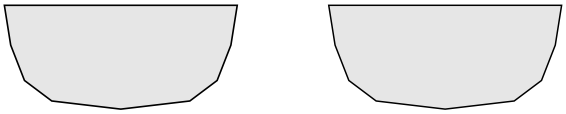
Deck Templates, Scale = 5.18%

Fiberglass Skin -- Bulkhead <Aft deck BH> at x=-76.00", Ang=105.0 deg -- Plywood Only

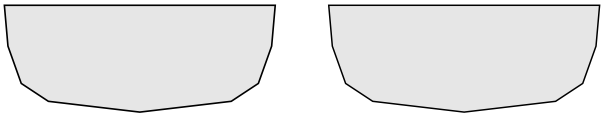
Fiberglass Skin -- Bulkhead <Fwd deck BH> at x=64.00", Ang=75.0 deg -- Plywood Only

Fiberglass Skin -- Marker <Stern Plate @ -87> at x=-87.00", Ang=90.0 deg -- Plywood Only

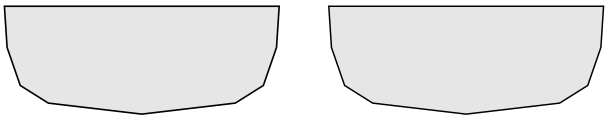
Fiberglass Skin -- Marker <Stern Plate @ -72> at x=-72.00", Ang=90.0 deg -- Plywood Only



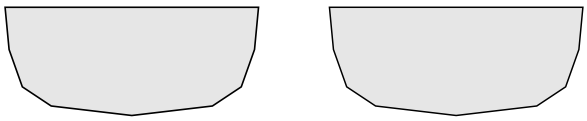
Fiberglass Skin -- Marker <Stern Plate @ -48> at x=-48.00", Ang=90.0 deg -- Plywood Only



Fiberglass Skin -- Marker <Stern Plate @ -24> at x=-24.00", Ang=90.0 deg -- Plywood Only



Fiberglass Skin -- Marker <Center Plate @ zero> at x=0.00", Ang=90.0 deg -- Plywood Only



Fiberglass Skin -- Marker <Bow Plate @ +24> at x=24.00", Ang=90.0 deg -- Plywood Only

Fiberglass Skin -- Marker <Bow Plate @ +48> at x=48.00", Ang=90.0 deg -- Plywood Only

Fiberglass Skin -- Marker <Bow Plate @ +72> at x=72.00", Ang=90.0 deg -- Plywood Only

Fiberglass Skin -- Marker <Bow Plate @ +87> at x=87.00", Ang=90.0 deg -- Plywood Only

Bulkhead Templates, Scale = 5.18%