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**2020**  
**Club**  
**Double Handed**

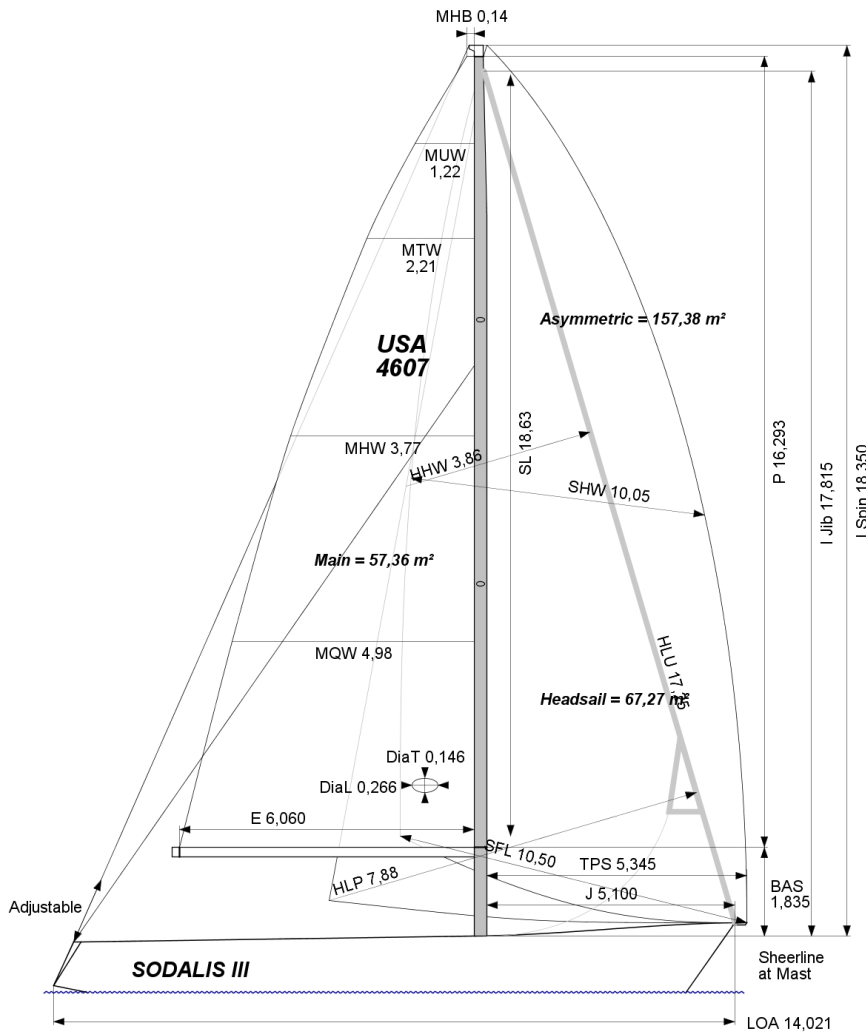
**Rating Office**

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**Congress**

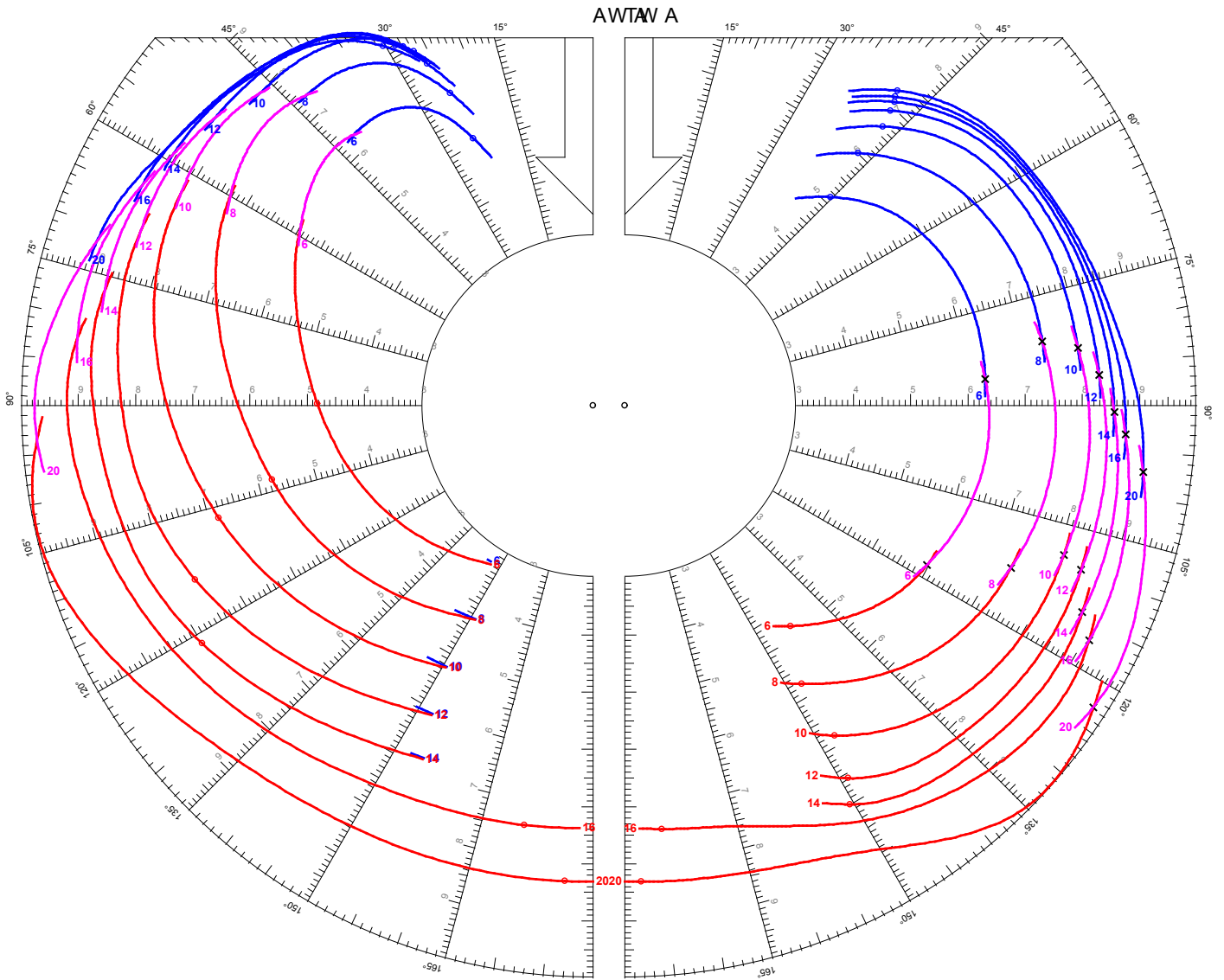


**Certificate**

Number **US6380**  
Issued On **22/09/2020**  
ORC Ref **03410000QRI**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**



<b>BOAT</b> Name <b>SODALIS III</b> Sail Nr <b>USA 4607</b>		<b>GPH</b> <b>587.9</b>	<b>HULL</b> Data File <b>US6380 DH</b> LOA <b>14.021m</b> Offset File <b>US31000b.off</b> MB <b>4.206m</b> Displacement <b>11,680kg</b> Draft <b>1.929m</b>		<b>Crew Weight</b> Default <b>170kg</b> Maximum <b>170kg</b> Non Manual Pwr <b>Sheets</b>
<b>CLASS</b> Class <b>J/46</b> Designer <b>JOHNSTONE</b> Builder <b>TPI COMPOSITES</b> Series <b>03/1995</b> Age Date <b>06/2000</b> Age Allowance <b>0.487%</b>			<b>IMS Division</b> <b>Cruiser/Racer</b> Dynamic All. <b>0.158%</b> Fiber Rigging <b>No</b> Construction <b>Cored</b> Crew Arm Ex Aramid Core <b>No</b> Carbon Rudder <b>No</b> Light Stanchions <b>No</b>		<b>Sails Limitations</b> Headsails <b>1</b> Spinnakers <b>4</b> <b>Asymmetric on centerline</b> <b>Spinnaker configuration</b> Symmetric: <b>No</b> Asymmetric: <b>Yes 157.38</b> Flying H/S: <b>No</b> Spin. Pole: <b>No</b>
<b>COMMENTS</b>			<b>LSM0</b> <b>12.586m</b> Displacement/Length ratio <b>5.8584</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>		<b>Stability (Measured)</b> Limit Positive Stab.: <b>98.8°</b> Stability Index: <b>105.7</b>
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.483</b> Type <b>Feathering 3 blades</b> PBW <b>0.152</b> PIPA <b>0.0038</b>		<b>CENTERBOARD</b> <b>N/A</b>		<b>Owner</b>	
<b>SCORING OPTIONS</b>					
	Time on Distance	Time on Time			
Coastal or Long Distance	<b>574.3</b>	<b>1.0447</b>			
Circular Random	<b>587.9</b>	<b>1.0206</b>			
Predominantly Upwind	<b>569.6</b>	<b>1.0534</b>			
Predominantly Downwind	<b>530.2</b>	<b>1.1317</b>			



<b>Polar Plot for Boat</b>	
Name	<b>SODALIS III</b>
Sail Number	<b>USA 4607</b>
Class	<b>J/46</b>
Designer	<b>JOHNSTONE</b>
Builder	<b>TPI COMPOSITES</b>
Issued On	<b>22/09/2020 - VPP 2020 1.02</b>

<b>BOAT</b>			
Name	<b>SODALIS III</b>	Certificate Number	<b>US6380</b>
Sail Nr	<b>USA 4607</b>	Issued On	<b>22/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>997.0</b>	<b>823.6</b>	<b>744.7</b>	<b>704.6</b>	<b>684.0</b>	<b>672.7</b>	<b>659.2</b>
52°	<b>642.8</b>	<b>541.7</b>	<b>490.7</b>	<b>471.8</b>	<b>463.4</b>	<b>459.0</b>	<b>454.2</b>
60°	<b>603.5</b>	<b>513.0</b>	<b>469.7</b>	<b>454.3</b>	<b>447.5</b>	<b>444.1</b>	<b>441.3</b>
75°	<b>573.3</b>	<b>491.1</b>	<b>454.9</b>	<b>439.3</b>	<b>431.2</b>	<b>426.6</b>	<b>422.4</b>
90°	<b>568.3</b>	<b>480.8</b>	<b>446.0</b>	<b>431.4</b>	<b>422.9</b>	<b>413.6</b>	<b>402.2</b>
110°	<b>584.3</b>	<b>489.7</b>	<b>446.4</b>	<b>426.7</b>	<b>411.3</b>	<b>397.4</b>	<b>377.7</b>
120°	<b>611.1</b>	<b>503.2</b>	<b>450.7</b>	<b>427.3</b>	<b>409.7</b>	<b>394.6</b>	<b>370.4</b>
135°	<b>685.0</b>	<b>550.6</b>	<b>476.0</b>	<b>440.9</b>	<b>420.6</b>	<b>401.9</b>	<b>364.7</b>
150°	<b>814.1</b>	<b>644.8</b>	<b>544.0</b>	<b>481.5</b>	<b>450.6</b>	<b>432.4</b>	<b>403.7</b>
Run VMG	<b>940.0</b>	<b>744.6</b>	<b>628.1</b>	<b>556.0</b>	<b>519.8</b>	<b>489.3</b>	<b>435.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>968.5</b>	<b>784.1</b>	<b>686.4</b>	<b>630.3</b>	<b>601.9</b>	<b>581.0</b>	<b>547.2</b>
Circular Random	<b>807.3</b>	<b>652.3</b>	<b>570.2</b>	<b>523.6</b>	<b>495.7</b>	<b>477.8</b>	<b>454.6</b>
Coastal / Long Distance	<b>965.7</b>	<b>734.4</b>	<b>613.3</b>	<b>542.4</b>	<b>506.5</b>	<b>478.1</b>	<b>433.2</b>
Non Spinnaker	<b>860.5</b>	<b>690.3</b>	<b>598.0</b>	<b>543.8</b>	<b>510.3</b>	<b>488.6</b>	<b>462.5</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>44.6°</b>	<b>42.8°</b>	<b>42.8°</b>	<b>42.0°</b>	<b>41.6°</b>	<b>41.3°</b>	<b>40.9°</b>
Beat VMG	<b>3.61</b>	<b>4.37</b>	<b>4.83</b>	<b>5.11</b>	<b>5.26</b>	<b>5.35</b>	<b>5.46</b>
52°	<b>5.60</b>	<b>6.65</b>	<b>7.34</b>	<b>7.63</b>	<b>7.77</b>	<b>7.84</b>	<b>7.93</b>
60°	<b>5.96</b>	<b>7.02</b>	<b>7.67</b>	<b>7.92</b>	<b>8.04</b>	<b>8.11</b>	<b>8.16</b>
75°	<b>6.28</b>	<b>7.33</b>	<b>7.91</b>	<b>8.19</b>	<b>8.35</b>	<b>8.44</b>	<b>8.52</b>
90°	<b>6.34</b>	<b>7.49</b>	<b>8.07</b>	<b>8.34</b>	<b>8.51</b>	<b>8.70</b>	<b>8.95</b>
110°	<b>6.16</b>	<b>7.35</b>	<b>8.06</b>	<b>8.44</b>	<b>8.75</b>	<b>9.06</b>	<b>9.53</b>
120°	<b>5.89</b>	<b>7.15</b>	<b>7.99</b>	<b>8.43</b>	<b>8.79</b>	<b>9.12</b>	<b>9.72</b>
135°	<b>5.26</b>	<b>6.54</b>	<b>7.56</b>	<b>8.17</b>	<b>8.56</b>	<b>8.96</b>	<b>9.87</b>
150°	<b>4.42</b>	<b>5.58</b>	<b>6.62</b>	<b>7.48</b>	<b>7.99</b>	<b>8.32</b>	<b>8.92</b>
Run VMG	<b>3.83</b>	<b>4.83</b>	<b>5.73</b>	<b>6.47</b>	<b>6.93</b>	<b>7.36</b>	<b>8.27</b>
Gybe Angles	<b>143.0°</b>	<b>147.5°</b>	<b>147.5°</b>	<b>149.0°</b>	<b>150.5°</b>	<b>175.0°</b>	<b>178.0°</b>