bladeCountRotor =

```
100
bladeCountStator =
   59
This stage currently extracts 28446897 [W]
Total Enthalpy [J / kg]:
                                    h03
       h01
                     h02
       1.7814e+06
                     1.7814e+06
                                   1.3750e+06
Static Enthalpy [J / kg]:
       1.7356e+06
                    1.3943e+06
                                    1.3077e+06
Total Pressure Values [Pa]:
       p01
                     p02
                                    p03
       2.0500e+06 2.0396e+06
                                   6.4063e+05
Static Pressure Values [Pa]:
       р1
       1.8456e+06
                    7.5977e+05
                                   5.2326e+05
Total Temp Values [K]:
       t01
                     t02
                                   t03
       1700.0
                     1700.0
                                   1312.2
Static Temp Values [K]:
       t1
                     t2
                                   t3
              1330.6
       1656.3
                                   1247.9
Entropy Change Values, static [K]:
       1-> 2
                         2 -> 3
       1.323
                         29.763
Entropy Change Values, total [K]:
       1-> 2
                         2 -> 3
       1.323
                         29.763
Total Enthalpy, Relative Rotor [J / kg]:
       h01r
                        h02r
                                            h03r
             1.5135e+06 1.5100e+06
Total Temp Values, Relative Rotor[K]:
       t01r
                         t02r
                                            t03r
                 1444.3225
       NaN
                                   1441.0
Total Pressure Values, Relative Rotor [Pa]:
               p02r
                                            p03r
       NaN
            1.0574e+06 9.3428e+05
Mach, Relative Rotor:
       M1r
                     M2
                                    МЗ
                0.7198
       NaN
                                0.9683
Entropy Change Values, static [K]:
        1-> 2
                         2 -> 3
       NaN
                     29.763
Entropy Change Values, total Rotor, Relative[K]:
```

```
1-> 2
                  2 -> 3
     NaN
               29.763
Blade Characteristics
Mid Stator Mid Rotor
0.0340 0.0458
0.0410 0.0459
-34.5325 0.7157
-33.9477
       4.1737
-33.3725 8.0349
Radii for each point:
Cond.1 S LE S TE Cond.2 R LE R TE Cond3
  0.3843 0.3843
               0.3843 0.3843 0.3840 0.3840
  Area of Annulus for each points:
Cond.1 S LE S TE Cond.2 R LE R TE Cond3
  0.0540 0.0668
               0.0870 0.0963 0.1019 0.1177 0.1209
Corresponding 'x' coordinate of each mid point
     0 0.0185 0.0526 0.0711 0.0838 0.1296 0.1422
```

StatorInletVelTriangle =

0	0	0
0	0	0
0	0	0
302.7183	302.7183	302.7183
0	0	0
302.7183	302.7183	302.7183
0	0	0
0	0	0
0	0	0

StatorExitRotorInletVelTriangle =

```
69.0650 67.8955 66.7451
52.7604 47.3006 40.9751
429.8990 456.4039 482.9087
331.1027 331.1027 331.1027
865.4853 815.2238 770.4796
926.6573 879.8971 838.6106
331.1027 331.1027 331.1027
435.5863 358.8199 287.5709
547.1420 488.2425 438.5499
```

RotorExitVelTriangle =

100.0000

>>

```
12.9797
           12.0294
                     11.2070
  54.1918
           55.6480
                     57.0449
  414.7689 448.6424 482.5158
  358.9139 358.9139 358.9139
  82.7279
           76.4817
                      71.1126
  368.3247 366.9722 365.8909
  358.9139 358.9139
                     358.9139
  497.4967 525.1241
                     553.6284
  613.4510 636.0617 659.7906
Degree of Reaction at Hub:
        9.620%
Flow Coeff:
        0.800
Work Coeff:
       2.019
Mis Span Zweifel Coeff:
       0.800
Stator Blade Count:
        59.000
Rotor Blade Count:
        100.000
First Table with design choices:
12000.0000
0.8000
0.8000
109.3765
108.3996
0.9830
0.9742
12.0294
1.0500
0.8700
0.8000
1.2000
Second Table with Major Design Characteristics
28.4469
9.6199
2.0190
1.2972
102.9486
59.0000
```