```
Total Circum Time = Co-L = 40.845 - 3x45 = 28.845
         phose I G_1 = 28.84 \times \frac{416}{1660} S = 7.23 S

phose I G_2 = 28.84 \times \frac{416}{1660} S = 7.23 S

phose II G_3 = 28.84 \times \frac{448}{1660} S = 7.78 S

phose IV G_4 = 28.84 \times \frac{476}{1660} S = 5.56 S

phose IV G_4 = 28.84 \times \frac{476}{1600} S = 8.27 S
              4.3
                  1. Solution: f_{w}=1+\frac{(w-1)}{30}=1+\frac{(1-1)}{30}=\frac{29}{30}

f_{g}=1-\frac{\% G}{200}=1-\frac{2}{200}=\frac{99}{100}
                                                                                                                                                                                                                        fa= 0.900

fhv = 100+%HV(ET-) = 100+7(2-1) = 107

fur = 100+%HV(ET-) = 1007

fur = 1000

fur = 1000

fur = 1000
                                                                                                                                                                                                                                 So= 1900
                                                                                                                                                                                                             S= 1900

S= Sofwfg fa furting = 1900 × \frac{29}{30} × \frac{900}{100} × \frac{100}{107} × \frac{100}{
                        2. Solution:
                                                                                                                                                                                                              Co= 1205 =
                                                                                                                                                                                                              Effective time = green time - start-up but time + (yellow time - clearance to
                                                                                                                                                                                                                                     green = 30-2+(4-1)s=31s

C_i = 5i\frac{g_i}{C} = 3058.82\frac{31}{120}vph = 790.20vph
                                                                                                                                                                                                f_{W} = \frac{29}{30}, \quad f_{9} = \frac{99}{100}, \quad f_{\alpha} = 0.900, \quad f_{HV} = \frac{100}{106} = \frac{50}{53}
Shared lane: f_{RT} = 1.0 - \frac{10.15}{10.15} f_{RT} - 1.0 - \frac{10.15}{10.15} f_{RT} - \frac{10005 \times 30\%}{10.05 \times 30\%} = \frac{1}{10.05 \times 30\%}
f_{RT} = f_{LT} = \frac{1.0 + 0.05}{10.05 \times 30\%} f_{LT} = \frac{1}{10.05 \times 30\%} f_{LT} = \frac{1}{1
                        3. Solution:
                                                                                                                                                                                                                    S = 3064.86 Uph
```