Found a tour of distance 33523.7 and 48 cities

Cities on the subtour are:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

Optimal TSP distance = 33523.7

x(1,9)=1

x(2,29)=1

x(3,23)=1

x(4,26)=1

x(5,42)=1

x(6,37)=1

x(7,28)=1

x(8,38)=1

x(9,8)=1

x(10,45)=1

x(11,12)=1

x(12,15)=1

x(13,11)=1

x(14,25)=1

x(15,40)=1

x(16,22)=1

x(17,43)=1

x(18,7)=1

x(19,27)=1

x(20,47)=1

x(21,32)=1

x(22,3)=1

x(23,14)=1

x(24,10)=1

x(25,13)=1

x(26,2)=1

x(27,17)=1

x(28,6)=1

x(29,34)=1

x(30,36)=1

x(31,44)=1

x(32,39)=1

x(33,20)=1

x(34,41)=1

x(35,4)=1

x(36,46)=1

x(37,19)=1

x(38,31)=1

x(39,48)=1

x(40,1)=1

x(41,16)=1

x(42,24)=1

x(43,30)=1

x(44,18)=1

x(45,35)=1

x(46,33)=1

x(47,21)=1

x(48,5)=1

End running model