Global optimal solution found.

Objective value: 5634506.

Objective bound: 5634506.

Infeasibilities: 0.000000

Extended solver steps: 0

Total solver iterations: 113

Elapsed runtime seconds: 0.15

Model Class: MILP

Total variables: 27

Nonlinear variables: 0

Integer variables: 11

Total constraints: 34

Nonlinear constraints: 0

Total nonzeros: 79

Nonlinear nonzeros: 0

Variable Value Reduced Cost

F( 1) 4200.000 -90.00000

F( 2) 4000.000 -214.5000

F( 3) 7000.000 -57.50000

F( 4) 15000.00 -52.50000

F( 5) 8064.000 -133.2500

F( 6) 5000.000 -139.2500

F( 7) 2.000000 -122.0000

F( 8) 0.000000 -63.25000

F( 9) 60000.00 -32.75000

F( 10) 6000.000 -19.00000

F( 11) 9248.000 -23.62500

C( 1) 160.0000 0.000000

C( 2) 150.0000 0.000000

C( 3) 100.0000 0.000000

C( 4) 60.00000 0.000000

C( 5) 120.0000 0.000000

C( 6) 140.0000 0.000000

C( 7) 175.0000 0.000000

C( 8) 60.00000 0.000000

C( 9) 40.00000 0.000000

C( 10) 160.0000 0.000000

C( 11) 90.00000 0.000000

P( 1) 300.0000 0.000000

P( 2) 450.0000 0.000000

P( 3) 180.0000 0.000000

P( 4) 120.0000 0.000000

P( 5) 270.0000 0.000000

P( 6) 320.0000 0.000000

P( 7) 350.0000 0.000000

P( 8) 130.0000 0.000000

P( 9) 75.00000 0.000000

P( 10) 200.0000 0.000000

P( 11) 120.0000 0.000000

Y( 1) 25100.00 0.000000

Y( 2) 28000.00 0.000000

Y( 3) 6000.000 0.000000

Y( 4) 18000.00 0.000000

Y( 5) 30000.00 0.000000

Y( 6) 9006.000 0.000000

Y( 7) 30000.00 0.000000

LIMIT( 1) 45000.00 0.000000

LIMIT( 2) 28000.00 0.000000

LIMIT( 3) 9000.000 0.000000

LIMIT( 4) 18000.00 0.000000

LIMIT( 5) 30000.00 0.000000

LIMIT( 6) 20000.00 0.000000

LIMIT( 7) 30000.00 0.000000

R( 1, 1) 0.000000 0.000000

R( 1, 2) 0.000000 0.000000

R( 1, 3) 6000.000 0.000000

R( 1, 4) 18000.00 0.000000

R( 1, 5) 30000.00 0.000000

R( 1, 6) 9006.000 0.000000

R( 1, 7) 30000.00 0.000000

R( 2, 1) 25100.00 0.000000

R( 2, 2) 28000.00 0.000000

R( 2, 3) 0.000000 7.000000

R( 2, 4) 0.000000 0.000000

R( 2, 5) 0.000000 0.000000

R( 2, 6) 0.000000 0.000000

R( 2, 7) 0.000000 0.000000

CR( 1, 1) 1000.000 0.000000

CR( 1, 2) 1000.000 0.000000

CR( 1, 3) 57.00000 0.000000

CR( 1, 4) 15.00000 0.000000

CR( 1, 5) 4.250000 0.000000

CR( 1, 6) 14.00000 0.000000

CR( 1, 7) 4.500000 0.000000

CR( 2, 1) 13.00000 0.000000

CR( 2, 2) 5.500000 0.000000

CR( 2, 3) 64.00000 0.000000

CR( 2, 4) 1000.000 0.000000

CR( 2, 5) 1000.000 0.000000

CR( 2, 6) 14.00000 0.000000

CR( 2, 7) 1000.000 0.000000

Row Slack or Surplus Dual Price

1 5634506. 1.000000

2 0.000000 -13.00000

3 0.000000 13.00000

4 0.000000 -5.500000

5 0.000000 5.500000

6 0.000000 -57.00000

7 0.000000 57.00000

8 0.000000 -15.00000

9 0.000000 15.00000

10 0.000000 -4.250000

11 0.000000 4.250000

12 0.000000 -14.00000

13 0.000000 14.00000

14 0.000000 -4.500000

15 0.000000 4.500000

16 19900.00 0.000000

17 0.000000 0.000000

18 3000.000 0.000000

19 0.000000 0.000000

20 0.000000 0.000000

21 10994.00 0.000000

22 0.000000 0.000000

23 0.000000 -987.0000

24 0.000000 -994.5000

25 0.000000 -985.0000

26 0.000000 -995.7500

27 0.000000 -995.5000

28 0.000000 0.000000

29 2800.000 0.000000

30 0.000000 0.000000

31 5000.000 0.000000

32 0.000000 0.000000

33 5264.000 0.000000

34 2000.000 0.000000

35 0.000000 0.000000

36 5498.000 0.000000

37 0.000000 0.000000

38 8000.000 0.000000

39 60000.00 0.000000