$$-5000 + \boxed{5000} \geq 0$$

$$\sum_{i \in P} x_i \left(a_{ij} - \min_j \right) + \alpha_j^{\min} \geq 0$$

$$\sum_{i \in P} x_i \left(a_{ij} - \max_j \right) - \alpha_j^{\max} \leq 0$$

35	0.02
100	0.06
65	0.04
55	0
10	0.04

$$\min W_1 \sum_{j \in T} \left(\frac{\alpha_j^{\min}}{\text{ideal}_j - \min_j} + \frac{\alpha_j^{\max}}{\max_j - \text{ideal}_j} \right) + W_2$$

$$490 - \underbrace{490}_{\text{var}_{1,2} = 490} \leq 0$$

LS:	100	1.5
Goal:	65	1.5
LI:	55	0

Res: 70 1.0

65 1.5

→ Desvio do Goal = 0

$$\min \; \omega_1 \sum \text{desvio\_limite} + \omega_2 \sum \text{desvio\_goal}$$

$\omega_1 >> \omega_2$

F. objetivo: $\omega_2 \sum_{j \in T} \left(\frac{\beta_j^{min} + \beta_j^{max}}{\min\left(ideal_j - min_j,\; max_j - ideal_j \right)} \right)$

Restrição: $\sum_{i \in P} x_i \left(a_{ij} - goal_j \right) + \beta_j^{min} - \beta_j^{max} = 0$