|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **49** | kN |   | **3** |
|  | **0,5** |  | **5** | **4** |
|  | **** =tan-1(8/15)  | **36,8699** |  |
|  | **** =tan-1  | **26,5651** |  |
|  | **** | **10,3048** |  |
|  | **P** = w ( tan )  | **8,9091** | **kgf** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| m | **70** | kg | 686,0000 | N (w) |
| ** | **0,25** |  |  |  |
|  | **60** | º |  |  |
|  | T = w\*(cos(\*PI()/180) -2\*sen(\*PI()/180)) |
|  |  | **T** | **194,4766433** | **N** |
| ** | **0,15** |  |  |  |
|  | Pmim = T / EXP(1\*(180-)\*(PI()/180)) |
|  |  | **PMIN** | **142,0463** | **N** |
|  | Pmax = T \*EXP(1\*(180-)\*(PI()/180)) |
|  | ***NO*** | **PMAX** | **266,2595** | **N** |

|  |  |  |  |
| --- | --- | --- | --- |
| **210** | lb | **4** |   |
| **7,5** | pulg | **7,5** | **8,5** |
| **5** | pulg | **14** | pulg |
| RBC=210/2 lb/(4/8,5); Fy |  |
|  | **R\_BC** | **223,1250** | **lb (C)** |
| RGy=210/2 ; MA |  |
|  | **R\_Gy** | **105,0000** | **lb** |
| REy=RBC\*(4/8,5)+RGy; Fy |  |
|  | **R\_Ey** | **0,0000** | **lb** |
|  | **EGy** | **8,7500** | **pulg** |
| REx=RBC\*((4/8,5)\*20+(7,5/8,5)\*14)/EGy; MG |
|   | **R\_Ex** | **555,0000** | **lb** |

|  |  |  |  |
| --- | --- | --- | --- |
| **5** | K |   | **8** |
| **9** | K | **12,80624847** | **10** |
| RA=(9k\*3\*10´+5k\*3\*8´)/(4\*10´); MK |
|  | **R\_A** | **3,7500** | **K** |
| RDE=(RA\*10´+5k\*2\*8´)/(2\*8´\*10/12,8); MG |
|  | **R\_DE** | **9,4046** | **K (C)** |
| REG=(RA-9k+RDE\*(8/12,8))/(8/12,8); Fy |
|  | **R\_EG** | **1,0005** | **kN (C)** |