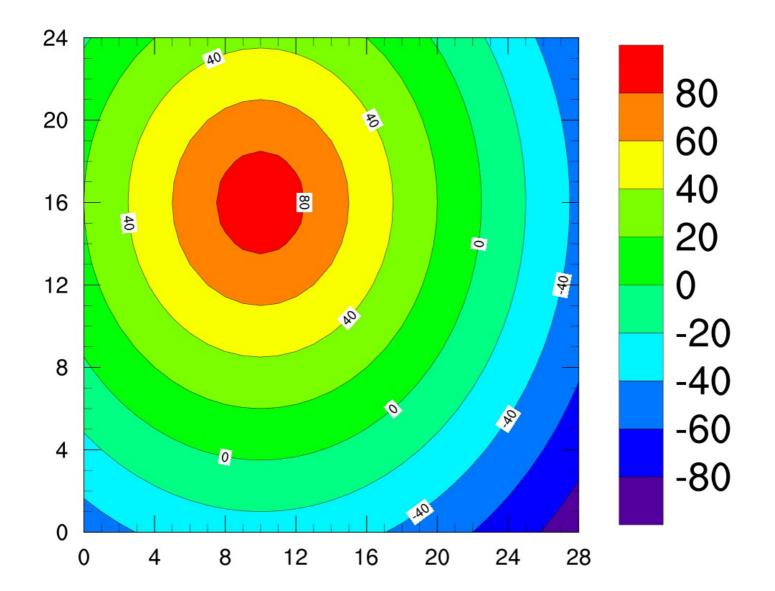
```
In [1]:
```

```
#
#
    File:
#
     cn02p.py
#
#
    Synopsis:
#
     Draws a simple color filled contour.
#
#
    Category:
#
      Contouring
#
#
   Author:
#
     Fred Clare (based on an example of Dave Brown)
#
#
   Date of initial publication:
#
     November, 2004
#
#
   Description:
#
      Given a simple mathematically generated data set,
      demonstrates Ngl.contour with color filled contour
#
#
      levels.
  Effects illustrated:
#
#
     o Drawing a contour visualization with color filled
         contour levels.
#
#
#
  Output
#
     A single visualization is produced.
#
from __future__ import print_function
import Ngl
import numpy
M = 29
N = 25
T = numpy.zeros([N,M])
# create a mound as a test data set
jspn = numpy.power(range(-M//2+5,M//2+5),2)
ispn = numpy.power(range(-N//2-3,N//2-3),2)
for i in range(len(ispn)):
    T[i,:] = ispn[i] + jspn
T = 100. - 8.*numpy.sqrt(T)
#
   Open a workstation and draw the contour plot with color fill.
wks_type = "pnq"
wks = Ngl.open wks(wks type, "cn02p")
res = Ngl.Resources()
res.cnFillOn = True
Ngl.contour(wks,T,res)
Ngl.end()
```



In [ ]: