```
N = 222 = 2*3*37

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(222))) = 120

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(222))^+ is 35
 the nonlift dimension of S_4(K(222))^+ is heuristically 61
 dim(S_4(K(222))^+) thus is heuristically 96
 dim(S_4(K(222))^-) is heuristically 24

The heuristic dimensions are correct by the spanning results to follow

dim(J_{2,222}^{cusp}) = 1 (Skoruppa-Zagier), so need to span completely

q = 7 for TraceDown
After TD(Grit(J_{4,1554}^{cusp})) and (Grit(J_{2,222}^{cusp}))^2,
 spanned rank in S_4(K(222))^+ is 95
 spanned rank in S_4(K(222))^- is 0

After Borcherds products,
 spanned rank in S_4(K(222))^+ is 96
 spanned rank in S_4(K(222))^- is 24

Final spanned rank in S_4(K(222))^+ is 96
Final spanned rank in S_4(K(222))^- is 24

------------------------------------------------------------------------------------------

S_2(K(222)) is determined by Jacobi restriction and the H4Ndd(3,+) test
 (H_4(222,3,3)^+ = 0)

So S_2(K(222)) = Grit(J_{2,222}^{cusp}) (dimension 1)
```