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Set  $N_{count} = 0$ .
Set  $a = 4\pi r^2/N$  and  $d = \sqrt{a}$ .
Set  $M_\theta = \text{round}[\pi/d]$ .
Set  $d_\theta = \pi/M_\theta$  and  $d_\phi = a/d_\theta$ .
For each  $m$  in  $0 \dots M_\theta - 1$  do {
    Set  $\theta = \pi(m + 0.5)/M_\theta$ .
    Set  $M_\varphi = \text{round}[2\pi \sin\theta/d_\varphi]$ .
    For each  $n$  in  $0 \dots M_\varphi - 1$  do {
        Set  $\varphi = 2\pi n/M_\varphi$ .
        Create point using Eqn.(1)
         $N_{count} + = 1$ 
    }
}

```

d (1)