

```

s = 1 / Sqrt[2];
m = IdentityMatrix[Length[StencilPoints]]
m = {{1, 0, 0, 0, 0, 0}, {0, 1, 1, 0, 0, 0} s, {0, -1, 1, 0, 0, 0} s,
      {0, 0, 0, -1, 1, 0} s, {0, 0, 0, 1, 1, 0} s, {0, 0, 0, 0, 0, 1}}
{ {1, 0, 0, 0, 0, 0}, {0,  $\frac{1}{\sqrt{2}}$ ,  $\frac{1}{\sqrt{2}}$ , 0, 0, 0}, {0,  $-\frac{1}{\sqrt{2}}$ ,  $\frac{1}{\sqrt{2}}$ , 0, 0, 0},
  {0, 0, 0,  $-\frac{1}{\sqrt{2}}$ ,  $\frac{1}{\sqrt{2}}$ , 0}, {0, 0, 0,  $\frac{1}{\sqrt{2}}$ ,  $\frac{1}{\sqrt{2}}$ , 0}, {0, 0, 0, 0, 0, 1} }
Transpose[m].u
{3847.2, 2889.52, 2530.88, 725.774, 360.342, 768.}

```