

H band 10 um pinhole 22/4/99

XCEN - x centre coord of 7x7 box /32/ > 42

YCEN - y centre coord of 7x7 box /32/ > 35

| | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 38 | 1.64E2 | 2.16E2 | 2.24E2 | 2.6E2 | 2.68E2 | 2.04E2 | 1.8E2 |
| 37 | 1.72E2 | 1.56E2 | 2.72E2 | 3.52E2 | 3.52E2 | 2.96E2 | 1.72E2 |
| 36 | 2.92E2 | 2.04E2 | 5.76E2 | 2.19E3 | 2.18E3 | 7.16E2 | 2.76E2 |
| 35 | 5.2E2 | 1.88E2 | 1.98E3 | 6.59E3 | 6.57E3 | 1.19E3 | 3.4E2 |
| 34 | 2.8E2 | 2.56E2 | 4.24E2 | 1.44E3 | 1.44E3 | 4.96E2 | 2.72E2 |
| 33 | 2.04E2 | 2.84E2 | 2.72E2 | 3.24E2 | 3.28E2 | 2.2E2 | 1.92E2 |
| 32 | 1.68E2 | 2.6E2 | 2.2E2 | 2.16E2 | 2.16E2 | 1.36E2 | 1.92E2 |

XCEN - x centre coord of 7x7 box /32/ > 40

YCEN - y centre coord of 7x7 box /32/ > 35

| | 37 | 38 | 39 | 40 | 41 | 42 | 43 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 38 | 2.84E2 | 3.2E2 | 3.2E2 | 4.36E2 | 3.64E2 | 3.6E2 | 3.44E2 |
| 37 | 2.84E2 | 3.32E2 | 3.4E2 | 4.16E2 | 3.96E2 | 4.E2 | 3.92E2 |
| 36 | 3.64E2 | 4.4E2 | 4.4E2 | 1.27E3 | 1.27E3 | 6.2E2 | 6.28E2 |
| 35 | 7.28E2 | 5.8E2 | 5.96E2 | 1.18E4 | 8.45E3 | 1.09E3 | 1.09E3 |
| 34 | 3.92E2 | 4.28E2 | 4.24E2 | 2.47E3 | 1.84E3 | 6.52E2 | 6.52E2 |
| 33 | 3.2E2 | 3.68E2 | 3.6E2 | 5.08E2 | 4.84E2 | 3.84E2 | 3.92E2 |
| 32 | 3.16E2 | 3.56E2 | 3.56E2 | 4.4E2 | 3.28E2 | 3.32E2 | 3.32E2 |

XCEN - x centre coord of 7x7 box /32/ > 42

YCEN - y centre coord of 7x7 box /32/ > 34

| | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 37 | 2.64E2 | 2.76E2 | 3.52E2 | 3.56E2 | 3.56E2 | 2.72E2 | 2.2E2 |
| 36 | 2.96E2 | 2.92E2 | 4.E2 | 5.16E2 | 5.28E2 | 4.32E2 | 2.88E2 |
| 35 | 3.44E2 | 3.92E2 | 5.24E2 | 1.82E3 | 1.82E3 | 1.06E3 | 4.2E2 |
| 34 | 6.92E2 | 4.04E2 | 1.27E3 | 1.04E4 | 1.04E4 | 2.45E3 | 6.28E2 |
| 33 | 4.2E2 | 4.28E2 | 7.32E2 | 3.76E3 | 3.74E3 | 1.09E3 | 4.48E2 |
| 32 | 2.76E2 | 3.84E2 | 3.32E2 | 5.08E2 | 4.96E2 | 3.72E2 | 2.88E2 |
| 31 | 2.4E2 | 2.52E2 | 2.72E2 | 2.96E2 | 2.76E2 | 2.4E2 | 2.68E2 |

XCEN - x centre coord of 7x7 box /32/ > 43

YCEN - y centre coord of 7x7 box /32/ > 33

| | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 36 | 4.16E2 | 3.16E2 | 3.88E2 | 3.88E2 | 4.2E2 | 3.84E2 | 3.36E2 |
| 35 | 3.68E2 | 3.76E2 | 7.4E2 | 7.24E2 | 9.88E2 | 6.12E2 | 3.92E2 |
| 34 | 4.E2 | 5.6E2 | 4.18E3 | 4.19E3 | 4.8E3 | 1.8E3 | 4.88E2 |
| 33 | 4.04E2 | 5.52E2 | 4.53E3 | 4.54E3 | 4.68E3 | 1.48E3 | 4.84E2 |
| 32 | 3.16E2 | 3.76E2 | 7.88E2 | 7.8E2 | 1.13E3 | 5.4E2 | 3.52E2 |
| 31 | 3.52E2 | 3.E2 | 3.8E2 | 3.72E2 | 4.48E2 | 3.8E2 | 3.16E2 |
| 30 | 3.36E2 | 2.92E2 | 3.08E2 | 3.E2 | 2.48E2 | 3.04E2 | 2.88E2 |

focus change

XCEN - x centre coord of 7x7 box /32/ > 43

YCEN - y centre coord of 7x7 box /32/ > 33

| | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 36 | 4.36E2 | 3.16E2 | 3.8E2 | 3.72E2 | 3.52E2 | 3.4E2 | 3.12E2 |
| 35 | 4.28E2 | 3.44E2 | 4.96E2 | 4.92E2 | 5.6E2 | 4.88E2 | 3.68E2 |
| 34 | 3.48E2 | 4.68E2 | 4.25E3 | 4.24E3 | 2.36E3 | 7.96E2 | 4.2E2 |
| 33 | 3.08E2 | 4.4E2 | 3.89E3 | 3.88E3 | 2.43E3 | 6.16E2 | 3.68E2 |
| 32 | 3.E2 | 3.4E2 | 5.28E2 | 5.16E2 | 7.16E2 | 4.32E2 | 3.12E2 |
| 31 | 3.08E2 | 3.16E2 | 3.96E2 | 3.72E2 | 4.92E2 | 3.48E2 | 3.12E2 |
| 30 | 3.16E2 | 2.8E2 | 3.56E2 | 3.36E2 | 3.72E2 | 2.92E2 | 3.28E2 |

XCEN - x centre coord of 7x7 box /32/ > 41
 YCEN - y centre coord of 7x7 box /32/ > 32

| | 38 | 39 | 40 | 41 | 42 | 43 | 44 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 35 | 3.68E2 | 3.68E2 | 3.52E2 | 3.96E2 | 3.72E2 | 3.72E2 | 4.08E2 |
| 34 | 3.68E2 | 3.68E2 | 4.04E2 | 4.12E2 | 4.4E2 | 4.32E2 | 4.16E2 |
| 33 | 4.04E2 | 4.04E2 | 1.27E3 | 2.03E3 | 6.52E2 | 6.44E2 | 4.E2 |
| 32 | 4.44E2 | 4.4E2 | 1.09E4 | 1.22E4 | 1.05E3 | 1.05E3 | 4.8E2 |
| 31 | 3.52E2 | 3.52E2 | 1.67E3 | 3.75E3 | 6.84E2 | 6.76E2 | 3.4E2 |
| 30 | 3.28E2 | 3.24E2 | 4.2E2 | 4.36E2 | 4.64E2 | 4.6E2 | 2.96E2 |
| 29 | 3.E2 | 3.12E2 | 3.28E2 | 3.92E2 | 3.68E2 | 3.64E2 | 3.68E2 |

Tom Says "Put stars around this one"

XCEN - x centre coord of 7x7 box /32/ > 43
 YCEN - y centre coord of 7x7 box /32/ > 33

| | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 36 | 3.92E2 | 3.32E2 | 3.48E2 | 3.6E2 | 3.4E2 | 3.28E2 | 3.4E2 |
| 35 | 3.48E2 | 3.48E2 | 4.16E2 | 4.2E2 | 4.24E2 | 4.16E2 | 3.64E2 |
| 34 | 3.36E2 | 3.4E2 | 6.48E2 | 6.4E2 | 1.33E3 | 6.8E2 | 4.56E2 |
| 33 | 7.16E2 | 5.24E2 | 3.56E3 | 3.56E3 | 1.41E4 | 1.12E3 | 4.44E2 |
| 32 | 5.08E2 | 3.68E2 | 1.52E3 | 1.52E3 | 5.09E3 | 6.92E2 | 3.92E2 |
| 31 | 3.76E2 | 3.16E2 | 3.72E2 | 3.84E2 | 5.2E2 | 4.76E2 | 3.68E2 |
| 30 | 3.64E2 | 3.08E2 | 3.32E2 | 3.24E2 | 4.E2 | 3.48E2 | 3.28E2 |

where getting better !!!

XCEN - x centre coord of 7x7 box /32/ > 42
 YCEN - y centre coord of 7x7 box /32/ > 32

| | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 35 | 3.36E2 | 4.36E2 | 3.16E2 | 3.56E2 | 3.44E2 | 2.96E2 | 3.04E2 |
| 34 | 3.56E2 | 4.12E2 | 3.72E2 | 3.96E2 | 4.04E2 | 3.24E2 | 3.52E2 |
| 33 | 3.16E2 | 3.68E2 | 4.16E2 | 6.44E2 | 6.2E2 | 5.6E2 | 3.92E2 |
| 32 | 6.28E2 | 2.36E2 | 8.88E2 | 8.26E3 | 8.23E3 | 8.68E2 | 3.48E2 |
| 31 | 7.E2 | 2.36E2 | 8.68E2 | 8.87E3 | 8.81E3 | 9.52E2 | 3.76E2 |
| 30 | 3.32E2 | 3.52E2 | 3.76E2 | 7.04E2 | 7.16E2 | 6.04E2 | 3.72E2 |
| 29 | 3.36E2 | 3.96E2 | 3.E2 | 3.88E2 | 4.E2 | 3.8E2 | 3.04E2 |

XCEN - x centre coord of 7x7 box /32/ > 42
 YCEN - y centre coord of 7x7 box /32/ > 31

| | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|----|-------|--------|--------|--------|--------|--------|--------|
| 34 | 3.4E2 | 3.88E2 | 3.28E2 | 3.56E2 | 3.48E2 | 3.24E2 | 3.2E2 |
| 33 | 3.8E2 | 4.52E2 | 3.92E2 | 4.56E2 | 4.52E2 | 4.24E2 | 3.44E2 |
| 32 | 3.8E2 | 4.64E2 | 5.24E2 | 1.29E3 | 1.27E3 | 5.8E2 | 3.44E2 |

| | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|
| 31 | 6.E2 | 2.96E2 | 2.32E3 | 6.18E3 | 6.15E3 | 7.52E2 | 3.72E2 |
| 30 | 4.8E2 | 3.36E2 | 7.32E2 | 4.16E3 | 4.14E3 | 6.84E2 | 3.88E2 |
| 29 | 3.16E2 | 3.32E2 | 3.52E2 | 4.76E2 | 4.76E2 | 4.68E2 | 3.28E2 |
| 28 | 3.2E2 | 3.36E2 | 3.24E2 | 3.76E2 | 3.84E2 | 3.92E2 | 3.12E2 |

XCEN - x centre coord of 7x7 box /32/ > 43

YCEN - y centre coord of 7x7 box /32/ > 31

| | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 34 | 4.44E2 | 2.88E2 | 3.72E2 | 3.44E2 | 3.88E2 | 4.48E2 | 3.48E2 |
| 33 | 4.24E2 | 3.6E2 | 4.52E2 | 4.6E2 | 6.96E2 | 5.72E2 | 4.44E2 |
| 32 | 5.56E2 | 4.56E2 | 3.14E3 | 3.14E3 | 7.31E3 | 7.72E2 | 3.72E2 |
| 31 | 6.08E2 | 5.E2 | 3.48E3 | 3.48E3 | 1.01E4 | 9.6E2 | 4.36E2 |
| 30 | 2.96E2 | 3.24E2 | 4.52E2 | 4.48E2 | 9.08E2 | 5.16E2 | 3.84E2 |
| 29 | 2.56E2 | 3.12E2 | 3.36E2 | 3.4E2 | 4.84E2 | 3.56E2 | 2.96E2 |
| 28 | 3.2E2 | 3.28E2 | 3.2E2 | 3.08E2 | 3.88E2 | 3.04E2 | 2.64E2 |

good one pixel !!!

XCEN - x centre coord of 7x7 box /32/ > 36

YCEN - y centre coord of 7x7 box /32/ > 32

| | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
|----|--------|--------|--------|--------|--------|--------|--------|
| 35 | 2.08E2 | 2.48E2 | 2.4E2 | 2.72E2 | 2.64E2 | 2.28E2 | 2.28E2 |
| 34 | 2.4E2 | 2.96E2 | 3.2E2 | 3.96E2 | 4.48E2 | 3.16E2 | 3.08E2 |
| 33 | 2.72E2 | 5.12E2 | 5.24E2 | 4.5E3 | 9.12E2 | 3.16E2 | 3.E2 |
| 32 | 4.32E2 | 1.42E3 | 1.4E3 | 1.21E4 | 2.59E3 | 4.E2 | 4.12E2 |
| 31 | 2.48E2 | 3.4E2 | 3.16E2 | 2.57E3 | 8.6E2 | 3.44E2 | 3.44E2 |
| 30 | 2.2E2 | 2.24E2 | 2.24E2 | 3.E2 | 2.88E2 | 2.32E2 | 2.28E2 |
| 29 | 1.92E2 | 1.96E2 | 2.08E2 | 2.4E2 | 2.4E2 | 2.12E2 | 1.96E2 |