|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Measurement of λ for He-Ne laser | | | | | | | | | | |
| LC for p=0.01mm, LC for q=0.0001mm | | | | | | | | | | |
| **S No** | **N** | **d1** | | | **d2** | | | **Δd (d2-d1) (mm)** | **λ(nm)** | **Mean λ(nm)** |
| **p** | **q** | **total(mm)** | **p** | **q** | **total(mm)** |
| 1 | 10 | 8 | 0 | 0.0800 | 8 | 34 | 0.0834 | 0.0034 | 680 | 625 |
| 2 | 10 | 8 | 60 | 0.0860 | 8 | 93 | 0.0893 | 0.0033 | 660 |
| 3 | 10 | 8 | 95 | 0.0895 | 9 | 29 | 0.0929 | 0.0034 | 680 |
| 4 | 10 | 9 | 40 | 0.0940 | 9 | 73 | 0.0973 | 0.0033 | 660 |
| 5 | 10 | 9 | 75 | 0.0975 | 10 | 5 | 0.1005 | 0.0030 | 600 |
| 6 | 10 | 10 | 15 | 0.1015 | 10 | 50 | 0.1050 | 0.0035 | 700 |
| 7 | 10 | 10 | 70 | 0.1070 | 10 | 99 | 0.1099 | 0.0029 | 580 |
| 8 | 10 | 11 | 10 | 0.1110 | 11 | 42 | 0.1142 | 0.0032 | 640 |
| 9 | 10 | 11 | 55 | 0.1155 | 11 | 85 | 0.1185 | 0.0030 | 600 |
| 10 | 10 | 12 | 0 | 0.1200 | 12 | 30 | 0.1230 | 0.0030 | 600 |
| 11 | 10 | 12 | 45 | 0.1245 | 12 | 75 | 0.1275 | 0.0030 | 600 |
| 12 | 10 | 12 | 85 | 0.1285 | 13 | 13 | 0.1313 | 0.0028 | 560 |
| 13 | 10 | 13 | 30 | 0.1330 | 13 | 59 | 0.1359 | 0.0029 | 580 |
| 14 | 10 | 13 | 70 | 0.1370 | 14 | 0 | 0.1400 | 0.0030 | 600 |
| 15 | 10 | 14 | 10 | 0.1410 | 14 | 42 | 0.1442 | 0.0032 | 640 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Measurement of λ for Na lamp | | | | | | | | | | |
| LC for p=0.01mm, LC for q=0.0001mm | | | | | | | | | | |
| **S No** | **N** | **d1** | | | **d2** | | | **Δd (d2-d1) (mm)** | **λ(nm)** | **Mean λ(nm)** |
| **p** | **q** | **total(mm)** | **p** | **q** | **total(mm)** |
| 1 | 10 | 70 | 97 | 0.7097 | 70 | 69 | 0.7069 | 0.0028 | 560 | 552 |
| 2 | 10 | 70 | 58 | 0.7058 | 70 | 34 | 0.7034 | 0.0024 | 480 |
| 3 | 10 | 70 | 29 | 0.7029 | 70 | 0 | 0.7000 | 0.0029 | 580 |
| 4 | 10 | 69 | 85 | 0.6985 | 69 | 59 | 0.6959 | 0.0026 | 520 |
| 5 | 10 | 69 | 43 | 0.6943 | 69 | 13 | 0.6913 | 0.0030 | 600 |
| 6 | 10 | 67 | 84 | 0.6784 | 67 | 55 | 0.6755 | 0.0029 | 580 |
| 7 | 10 | 67 | 38 | 0.6738 | 67 | 10 | 0.6710 | 0.0028 | 560 |
| 8 | 10 | 66 | 60 | 0.6660 | 66 | 33 | 0.6633 | 0.0027 | 540 |
| 9 | 10 | 65 | 99 | 0.6599 | 65 | 69 | 0.6569 | 0.0030 | 600 |
| 10 | 10 | 65 | 60 | 0.6560 | 65 | 34 | 0.6534 | 0.0026 | 520 |
| 11 | 10 | 65 | 30 | 0.6530 | 65 | 4 | 0.6504 | 0.0026 | 520 |
| 13 | 10 | 64 | 48 | 0.6448 | 64 | 20 | 0.6420 | 0.0028 | 560 |
| 14 | 10 | 63 | 70 | 0.6370 | 63 | 42 | 0.6342 | 0.0028 | 560 |