

Effects of small variations in measurements upon the calculation of the slope and length of the "missing cone" of an alto saxophone

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Increase small radius in .1 mm steps

small radius	large radius	length	taper
12.6	22.8	176	1.66
12.7	22.8	176	1.64
12.8	22.8	176	1.63
12.9	22.8	176	1.61
13.0	22.8	176	1.60

Decrease large radius in .1mm steps

small radius	large radius	length	taper
12.6	22.8	176	1.66
12.6	22.7	176	1.64
12.6	22.6	176	1.63
12.6	22.5	176	1.61
12.6	22.4	176	1.60

Change radius measurements consecutively

small radius	large radius	length	taper
12.6	22.8	176	1.66
12.7	22.7	176	1.63
12.8	22.6	176	1.60

Effect of taper on length of missing cone

small radius	length	taper	lmc
12.6	22.8	1.66	217.5
12.6	22.8	1.65	218.8
12.6	22.8	1.64	220.1
12.6	22.8	1.63	221.5
12.6	22.8	1.62	222.8
12.6	22.8	1.61	224.2
12.6	22.8	1.60	225.6

all distances are in millimeters, tapers are given in degrees