

# 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*

*Decrease large radius in .1mm steps*

small radius	large radius	length	taper	small radius	large radius	length	taper
12.6	22.8	176	1.66	12.6	22.8	176	1.66
12.7	22.8	176	1.64	12.6	22.7	176	1.64
12.8	22.8	176	1.63	12.6	22.6	176	1.63
12.9	22.8	176	1.61	12.6	22.5	176	1.61
13.0	22.8	176	1.60	12.6	22.4	176	1.60

*Change radius measurements consecutively*

*Effect of taper on length of missing cone*

small radius	large radius	length	taper	small radius	length	taper	lmc
12.6	22.8	176	1.66	12.6	22.8	1.66	217.5
12.7	22.7	176	1.63	12.6	22.8	1.65	218.8
12.8	22.6	176	1.60	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