

Dataset for the paper "On the Shape of a Violin", by R.J. Stroeker
September 2010

Three sets of points in the [x,y]-plane with 44, 29, and 40 points respectively.

StradLower :=

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{[0, 0], [0.0315332, .4829157], [0.0630664, .9869383], [0.0892593, 1.4856206], [.1836046,
2.4862911], [.2413307, 2.9849734], [.3239782, 3.4915390], [.4091687, 3.9917471], [.5452192,
4.4927181], [.6749122, 4.9916547], [.8458018, 5.4910999], [1.0439015, 5.9961397], [1.2796376,
6.4948220], [1.5580961, 6.9960473], [1.8726652, 7.4980355], [2.2836140, 7.9946834], [2.7708528,
8.5009947], [2.9778530, 8.6787504], [3.3796470, 9.0001856], [3.9851353, 9.3816356], [4.2244316,
9.5054797], [4.4896665, 9.6354270], [4.9903832, 9.8477675], [5.4549893, 10.0049249],
[5.9869849, 10.1417383], [6.4871930, 10.2439669], [6.9812979, 10.3049989], [7.4764200,
10.3342434], [7.7279227, 10.3352606], [7.9812055, 10.3319547], [8.4875168, 10.2973699],
[8.9938281, 10.2312519], [9.4955620, 10.1277518], [9.9515219, 10.0125539], [10.4959782,
9.8426815], [10.9880487, 9.6443275], [11.4806278, 9.4469907], [11.9861762, 9.2333787],
[12.4807897, 9.0212925], [12.9863381, 8.8758329], [13.5524099, 8.8079348], [13.9938747,
8.8521830], [14.4724673, 9.0111205], [14.8249271, 9.2336330]}.
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StradC :=

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{[15.4128687, 8.8493857], [15.1397505, 8.5093866], [14.9813216, 8.1124243], [14.9609776,
8.0063812], [14.9480083, 7.7256340], [14.9752184, 7.5125306], [15.1400048, 7.0110510],
[15.5003479, 6.5466992], [15.9934356, 6.2028856], [16.4972039, 5.9902908], [16.9897830,
5.8262673], [17.4945685, 5.7105608], [17.9975739, 5.6134182], [18.4952390, 5.5462830],
[19.0015503, 5.5015262], [19.5009955, 5.4727903], [20.0062896, 5.4534635], [20.1975232,
5.4481232], [20.4968343, 5.4511748], [20.9944994, 5.4791478], [21.4921645, 5.5439943],
[21.9877952, 5.6614809], [22.3918779, 5.8074491], [22.6988180, 6.0157208], [23.0098269,
6.5149117], [23.0543294, 6.8223604], [23.0428859, 7.0156284], [22.8346142, 7.5178709],
[22.7944348, 7.5946695]}.
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StradUpper :=

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{[23.3900054, 7.8817742], [23.4960485, 7.7998896], [23.9934593, 7.5267714], [24.4453504,
7.4759114], [24.4984991, 7.4782001], [24.9987072, 7.5313488], [25.4994239, 7.6701966],
[25.7132902, 7.7462323], [25.9968347, 7.8344744], [26.4955170, 7.9895974], [26.9952165,
8.1396344], [27.4923730, 8.2530522], [27.9961413, 8.3308680], [28.5042327, 8.3863054],
[28.9525636, 8.4071580], [29.5059204, 8.3771506], [30.0061285, 8.3145928], [30.5073538,
8.2082954], [31.0047646, 8.0669046], [31.4986152, 7.8726194], [32.0031464, 7.6226425],
[32.1638640, 7.5275343], [32.5061518, 7.3121422], [32.9163377, 7.0245289], [33.0155147,
6.9423900], [33.5129255, 6.5281353], [34.0047417, 6.0264014], [34.1674937, 5.8338963],
[34.4047556, 5.5264476], [34.7383972, 5.0287825], [35.0168557, 4.5211997], [35.2345365,
4.0220088], [35.4234814, 3.5245980], [35.5768243, 3.0236270], [35.6971082, 2.5213845],
[35.7784842, 2.0234651], [35.8412963, 1.5191882], [35.8725752, 1.0217774], [35.8774069, .
9414186], [35.8974966, 0]}.
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