TRACK DESIGN SOLUTION by Rajeev

The radius of the curved section is 73.2484/2= 36.6242.You get this answer by taking away 85 twice from 400M so the answer is 230M. 230M is the circumference of the two semicircles and so working out the radius of the two circles, you do 230M divided by pi=3.14 and so you get the diameter of 73.2484M. The radius is half of that and so the radius is 36.6242M

LENGTH OF	AVERAGE LENGTH	RADIUS	STAGGER	STAGGER
INSIDE EDGE	OF INSIDE LANE		DISTANCE IN A	DISTANCE IN A
			200 M RACE	400 M RACE
400	403.925	36.6242	0 DISTANCE	0 DISTANCE
			FROM STARTING	FROM STARTING
			LINE	LINE
407.85	411.775	37.8742	3.925 FROM	7.85M FROM
			STARTING LINE	STARTING LINE
415.70	419.625	39.1242	7.85 FROM	15.7M FROM
			STARTING LINE	STARTING LINE
423.55	427.475	40.3742	11.775 FROM	23.55M FROM
			STARTING LINE	STARTING LINE
431.40	435.325	41.6242	15.625 FROM	31.4M FROM
			STARTING LINE	STARTING LINE
439.25	443.175	42.8742	19.475 FROM	39.25M FROM
			STARTING LINE	STARTING LINE
447.10	451.025	44.1242	23.325 FROM	47.1M FROM
			STARTING LINE	STARTING LINE
454.95	458.875	45.3742	27.175 FROM	54.95M FROM
			STARTING LINE	STARTING LINE
462.8	466.725	46.6242	31.025 FROM	62.8M FROM
			STARTING LINE	STARTING LINE