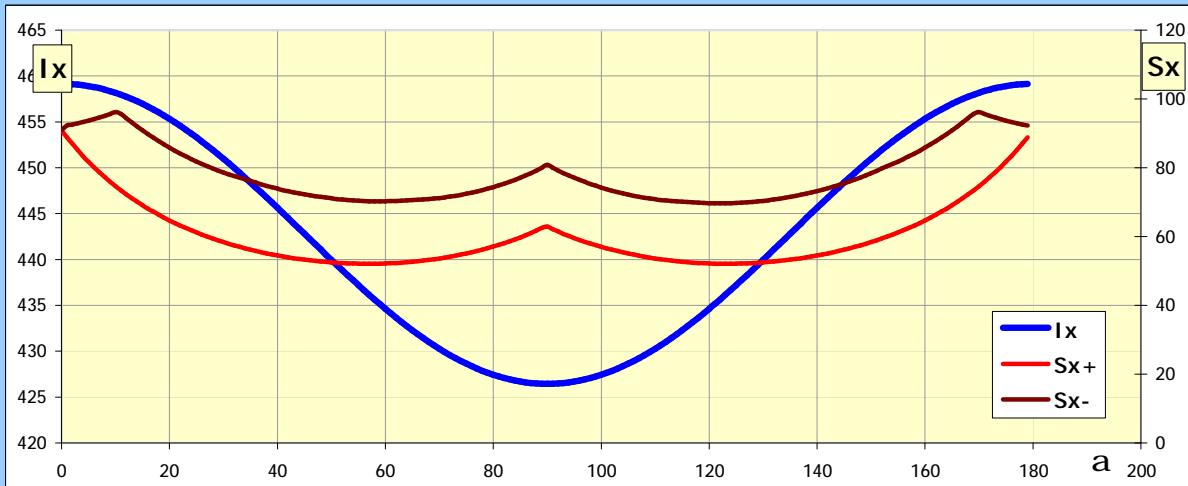


2.0 Cross section properties to axes going through the centre of gravity

2.1 Profile area	A	43.40	[in^2]
2.2 Co-ordinates of the centre of gravity	Tx	7.74	[in]
2.3 Moment of inertia	Ix	459.1550667	[in^4]
2.4 Polar moment of inertia	Ip	885.6012532	[in^4]
2.5 Product of inertia	Ixy	0	[in^4]
2.6 Minimum moment of inertia	Imin	426.4461866	[in^4]
2.7 Maximum moment of inertia	Imax	459.1550667	[in^4]
2.8 Radius of gyration	rx	3.25	[in]
2.9 Bending modulus of section	Sx+	91.83	[in^3]
2.10 Bending modulus of section	Sy+	81.07	[in^3]
	Ty	6.00	[in]
	Iy	426.4461866	[in^4]
	α_{min}	90 °	[in^4]
	α_{max}	0 °	[in^4]
	ry	3.13	[in]
	Sx-	91.83	[in^3]
	Sy-	63.27	[in^3]



3.0 Cross section properties to shifted and inclined axes

3.1 A shift of axes related to the centre of gravity	dx	0	dy	0	[in]
3.2 Axis rotation angle	α	90	◀	▶	[°]
3.3 Moment of inertia	Ix'	426.4461866	Iy'	459.1550667	[in^4]
3.4 Polar moment of inertia	Ip'	885.6012532			[in^4]
3.5 Products of inertia	Ixy'	2.36746E-15			[in^4]

4.0 Properties of homogeneous solids (rotation, extrusion)

4.1 Specific density	γ	486.9	Steel (486,9)	▼	[lb/feet³]
4.2 Solid created by drawing the profile - beam					
4.3 Length of the beam	L	100			[in]
4.4 Volume of the beam	V	4340			[in^3]
4.5 Mass of the beam	m	1222.885417			[lbf]
4.6 Moment of inertia of masses (Z axis)	Imz	24953.66031			[lb.in.sec^2]
4.7 Solid created by rotation of the profile around the X axis					
4.8 Volume of the solid of revolution	V	1636.141454			[in^3]
4.9 Mass of the solid of revolution	m	461.0169409			[lbf]
4.10 Moment of inertia of the profile to the X axis	Ix'	2021.555067			[in^4]
4.11 Mass moment of inertia (axis X)	Imx	30845.36494			[lb.in.sec^2]