Supplementary table S1. Areas of series of circumscribed lenses and circumscribed rhombi

Construction steps and calculations

(i) Drawing a dodecagon (n=5) and

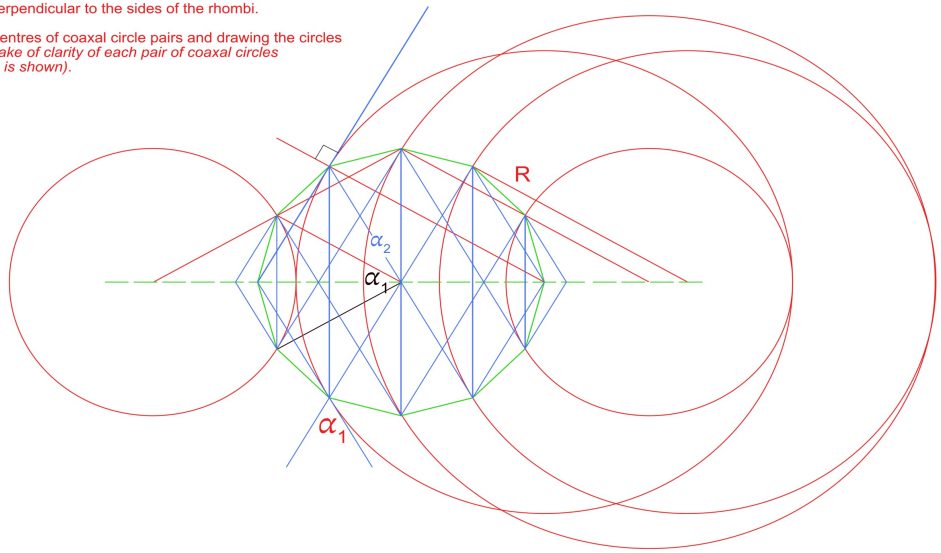
(ii) selecting a pair of mutually opposite vertices to define the line of centres.

(iii) Connecting the remaining vertices with parallel polygon diagonals (circle chords) that are perpendicular to the line of centres.

(iv) Constructing rhombi around the diagonals and

(v) beams perpendicular to the sides of the rhombi.

(vi) Finding centres of coaxal circle pairs and drawing the circles *(for the sake of clarity of each pair of coaxal circles only one is shown).*



Upon request, when interested to perform more calculations of the kind, the table can be obtained in Excel format from hasilik@staff.uni-marburg.de

Basic definitions and calculations:
Number of lenses: n, in the figure shown on the left n = 5.
Number of polygon vertices: $2(n + 1)$
Number of parallel diagonals or chords: n
Central angles of the diagonals or chords: α
Diagonal or chord length = lens' length = $2\,R\,\sin\,\alpha/2$
Lens' thickness = $2*h = 2R*(1 - \cos\alpha/2)$

	π	3.14159265
	1/ϕ	0.61803399
Goldener Schnitt	ϕ	1.61803399

A portion of calculations in column "O" has been controlled and confirmed using the following online script:
http://walter.bislins.ch/blog/index.asp?page=Schnittfl%E4che+zweier+Kreise+%28JavaScript%29

intersections of pairs of coaxal circles with the coaxal axis shown as a dashed green line. The vertical line segments that are shown in blue represent diagonals of the polygon that is highlighted in green. The central angles of the first two diagonals are marked as α_1 and α_2. In blue highlighted is also a net of diagonals that meet in the vertices of the polygon at angle α_1. The lenses will be inscribed tangential into these rhombi. The vertical diagonals themselves coincide with the radical axes of the respective coaxal intersecting circle pairs. For the sake of clarity for each pair only one circle is shown. The radii and the circles are highlighted in red.

For several values of n packing of lenses and in some cases of rhombi, each inscribed in a circle or a polygon, is shown in a scheme at the bottom of this table.

Any lens may define two rhombi. One circumscribed and the other inscribed. The former are tangential and are used in the construction of the coaxal circles. For n = 7 they are shown in Figure 2 ST (j). The other kind of rhombi do not intersect. Their packing is considered too. They are shown in Figure 2 ST (b). The results are summarized in an additional table at the bottom.

AN OVERVIEW OF THE RESULTS IS PRESENTED AT THE BOTTOM OF THE TABLE

π eq 3.14159265 Sphere volume 4.188790205

POLYGON															
Square	2*(2+0)	Series n =1												Area of	**Square**
Perpendicular	90				1h = R - R cos α/2								L - N	*Coaxal circles´*	**inscribed**
Perp. diagonal	Angle	tan	sin	cos	2h	chord	RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment		*intersections*	**in circle**
1	1.570796327	1.63312E+16	1.0000000	6.12323E-17	2	2.0000000	1		1.57079633	0	0	1.5707963		3.14159265	2.00000000
α1/4	0.785398163	1	0.7071068	0.707106781									SUM	3.14159265	2.00000000
													SHARE %	100	63.6619772

Hexagon	2*(2+1)	Series n =2			Thickness	Length	Ratio								
			chord/2		INTERSECTION						SECTOR and	PARTS				**Rhombi**
Perpendicular	60	tan	sin	cos	2h	chord		RADIUS	ctrs distance		Sector	Sagita	ctr triangle	Segment	*Intersection*	**inscribed**
diagonal No	α/2 rad				= chord * tan α/4	= 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49		α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment	**in circle**
1	1.047197551	1.732050808	0.8660254	0.5	1	1.73205081	0.577350269	1	1		1.04719755	0.5	0.4330127	0.6141848	1.2283697	0.8660254
2	2.094395102	-1.732050808	0.8660254	-0.5	1	1.73205081	0.577350269	1	1		1.04719755	0.5	0.4330127	0.6141848	1.2283697	0.8660254
α1/4	0.523598776	0.577350269	0.5	0.866025404	0.57735027	1			SUM					SUM	2.4567394	1.73205081
									SHARE %		0.78539816	π/4		SHARE %	78.2004438	55.1328895
									log share					log share	1.89320922	

Octagon	2*(3+1)	Series n =3			Thickness	Length	Ratio									
	Angle		chord/2		INTERSECTION					SECTOR and	PARTS					**Rhombi**
Perpendicular	45	tan	sin	cos	2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*		**inscribed**
diagonal No					= chord * tan α/4	eq 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49	α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment		**in circle**
1	0.785398163	1	0.70710678	0.707106781	0.58578644	1.41421356	0.414213562	1	1.414213562	0.78539816	0.29289322	0.5	0.2853982	0.57079633	0.41421356	
2	1.570796327	1.63312E+16	1	6.12323E-17	0.82842712	2	0.414213562	1.41421356	2	1.57079633	0.41421356	1	0.5707963	1.14159265	0.82842712	
3	2.35619449	-1	0.70710678	-0.707106781	0.58578644	1.41421356	0.414213562	1	1.414213562	0.78539816	0.29289322	0.5	0.2853982	0.57079633	0.41421356	
α1/4	0.392699082	0.414213562	0.38268343	0.923879533	2				SUM				SUM	2.28318531	1.65685425	
									SHARE %				SHARE %	72.6760455	52.7393088	
									log share				log share	1.86139129		

https://matheraum.de/forum/Sin-Wert_36_ohne_Taschenr./t827826

Decagon	2*(4+1)=10	Series n =4			Thickness	Length	Ratio									
	Angle		chord/2		INTERSECTION					SECTOR and	PARTS					**Rhombi**
Perpendicular	36	tan	sin	cos	2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*		**inscribed**
diagonal No	α/2 rad				= chord * tan α/4	eq 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49	α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment		**in circle**
1	0.628318531	0.726542528	0.58778525	0.809016994	0.38196601	1.1755705	0.324919696	1	1.618033989	0.62831853	0.19098301	0.47552826	0.1527903	0.30558055	0.22451399	
2	1.256637061	3.077683537	0.95105652	0.309016994	0.61803399	1.90211303	0.324919696	1.61803399	2.618033989	1.64495927	0.30901699	1.24494914	0.4000101	0.80002025	0.58778525	
3	1.884955592	-3.077683537	0.95105652	-0.309016994	0.61803399	1.90211303	0.324919696	1.61803399	2.618033989	1.64495927	0.30901699	1.24494914	0.4000101	0.80002025	0.58778525	
4	2.513274123	-0.726542528	0.58778525	-0.809016994	0.38196601	1.1755705	0.324919696	1	1.618033989	0.62831853	0.19098301	0.47552826	0.1527903	0.30558055	0.22451399	
α1/4	0.314159265	0.324919696			1.61803399	1.61803399			SUM				SUM	2.2112016	1.62459848	
									SHARE %				SHARE %	70.3847329	51.7125758	
									log share				log share	1.84747847		

Dodecagon	2*(5+1)	Series n =5			Thickness	Length	Ratio									
	Angle		chord/2		INTERSECTION					SECTOR and	PARTS					**Rhombi**
Perpendicular	30	tan	sin	cos	2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*		**inscribed**
diagonal No	α/2 rad				= chord * tan α/4	eq 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49	α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment		**in circle**
1	0.523598776	0.577350269	0.5	0.866025404	0.26794919	1	0.267949192	1	1.732050808	0.52359878	0.1339746	0.4330127	0.0905861	0.18117215	0.1339746	
2	1.047197551	1.732050808	0.8660254	0.5	0.46410162	1.73205081	0.267949192	1.73205081	3	1.57079633	0.23205081	1.29903811	0.2717582	0.54351644	0.40192379	
3	1.570796327	1.63312E+16	1	6.12323E-17	0.53589838	2	0.267949192	2	3.464101615	2.0943951	0.26794919	1.73205081	0.3623443	0.72468859	0.53589838	
4	2.094395102	-1.732050808	0.8660254	-0.5	0.46410162	1.73205081	0.267949192	1.73205081	3	1.57079633	0.23205081	1.29903811	0.2717582	0.54351644	0.40192379	
5	2.617993878	-0.577350269	0.5	-0.866025404	0.26794919	1	0.267949192	1	1.732050808	0.52359878	0.1339746	0.4330127	0.0905861	0.18117215	0.1339746	
α1/4	0.261799388	0.267949192							SUM				SUM	2.17406577	1.60769515	
									SHARE %				SHARE %	69.2026627	51.1745262	
									log share				log share	1.84012281		

Tetradecagor	2*(6+1)	Series n =6			Thickness	Length	Ratio									
	Angle		chord/2		INTERSECTION					SECTOR and	PARTS					**Rhombi**
Perpendicular	25.71428571	tan	sin	cos	2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*		**inscribed**
diagonal No	α/2 rad				= chord * tan α/4	eq 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49	α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment		**in circle**
1	0.448798951	0.481574619	0.43388374	0.900968868	0.19806226	0.86776748	0.228243474	1	1.801937736	0.44879895	0.09903113	0.39091574	0.0578832	0.11576642	0.085936	
2	0.897597901	1.253960338	0.78183148	0.623489802	0.35689587	1.56366296	0.228243474	1.80193774	3.246979604	1.45724104	0.17844793	1.26929544	0.1879456	0.3758912	0.27903243	
3	1.346396852	4.381286268	0.97492791	0.222520934	0.44504187	1.94985582	0.228243474	2.2469796	4.04891734	2.2659488	0.22252093	1.97370126	0.2922475	0.58449508	0.43388374	
4	1.795195802	-4.381286268	0.97492791	-0.222520934	0.44504187	1.94985582	0.228243474	2.2469796	4.04891734	2.2659488	0.22252093	1.97370126	0.2922475	0.58449508	0.43388374	
5	2.243994753	-1.253960338	0.78183148	-0.623489802	0.35689587	1.56366296	0.228243474	1.80193774	3.246979604	1.45724104	0.17844793	1.26929544	0.1879456	0.3758912	0.27903243	
6	2.692793703	-0.481574619	0.43388374	-0.900968868	0.19806226	0.86776748	0.228243474	1	1.801937736	0.44879895	0.09903113	0.39091574	0.0578832	0.11576642	0.085936	
α1/4	0.224399475	0.228243474							SUM				SUM	2.15230539	1.59770432	
									SHARE %				SHARE %	68.5100085	50.856508	
									log share				log share	1.83575402		

Hexadecagor	2*(7+1)	Series n =7			Thickness	Length	Ratio									
	Angle		chord/2		INTERSECTION					SECTOR and	PARTS					**Rhombi**
Perpendicular	22.5	tan	sin	cos	2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*		**inscribed**
diagonal No	α/2 rad				= chord * tan α/4	eq 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49	α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment		**in circle**

1	0.392699082	0.414213562	0.38268343	0.92387953	0.15224093	0.76536686	0.198912367	1	1.847759065	0.39269908	0.07612047	0.35355339	0.0391457	0.07829138	0.05826008
2	0.785398163	1	0.70710678	0.70710678	0.28130457	1.41421356	0.198912367	1.84775907	3.414213562	1.34075853	0.14065228	1.20710678	0.1336517	0.2673035	0.19891237
3	1.178097245	2.414213562	0.92387953	0.38268343	0.36754213	1.84775907	0.198912367	2.41421356	4.460884995	2.28881798	0.18377106	2.06066017	0.2281578	0.45631562	0.33956465
4	1.570796327	1.63312E+16	1	0.00000000	0.39782473	2	0.198912367	2.61312593	4.828427125	2.68151706	0.19891237	2.41421356	0.2673035	0.534607	0.39782473
5	1.963495408	-2.414213562	0.92387953	-0.38268343	0.36754213	1.84775907	0.198912367	2.41421356	4.460884995	2.28881798	0.18377106	2.06066017	0.2281578	0.45631562	0.33956465
6	2.35619449	-1	0.70710678	-0.70710678	0.28130457	1.41421356	0.198912367	1.84775907	3.414213562	1.34075853	0.14065228	1.20710678	0.1336517	0.2673035	0.19891237
7	2.748893572	-0.414213562	0.38268343	-0.92387953	0.15224093	0.76536686	0.198912367	1	1.847759065	0.39269908	0.07612047	0.35355339	0.0391457	0.07829138	0.05826008
α1/4	0.196349541	0.198912367							SUM				SUM	2.13842799	1.59129894
									SHARE %				SHARE %	68.0682771	50.6526184
									log share				log share	1.83294476	

Icositetragon	2*(11+1)	Series *n* =11			Thickness	Length	Ratio								
	Angle		chord/2		INTERSECTION						ABSCHNITT				**Rhombi**
Perpendicular	15				2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*	**inscribed**
diagonal No	α/2 rad	tan	sin	cos	= chord * tan α/4	eq 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49	α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment	**in circle**
1	0.261799388	0.267949192	0.25881905	0.965925826	0.06814835	0.51763809	0.131652498	1	1.931851653	0.26179939	0.03407417	0.25	0.0117994	0.02359878	0.01763809
2	0.523598776	0.577350269	0.5	0.866025404	0.1316525	1	0.131652498	1.93185165	3.732050808	0.97704862	0.06582625	0.9330127	0.0440359	0.08807183	0.06582625
3	0.785398163	1	0.70710678	0.707106781	0.18618475	1.41421356	0.131652498	2.73205081	5.277916868	1.95409723	0.09309237	1.8660254	0.0880718	0.17614366	0.1316525
4	1.047197551	1.732050808	0.8660254	0.5	0.22802881	1.73205081	0.131652498	3.34606521	6.464101615	2.93114585	0.11401441	2.79903811	0.1321077	0.26421549	0.19747875
5	1.308996939	3.732050808	0.96592583	0.258819045	0.2543331	1.93185165	0.131652498	3.73205081	7.20976852	3.64639508	0.12716655	3.48205081	0.1643443	0.32868854	0.2456669
6	1.570796327	3.53011E+15	1	2.832769E-16	0.263305	2	0.131652498	3.86370331	7.464101615	3.90819447	0.1316525	3.73205081	0.1761437	0.35228732	0.263305
7	1.832595715	-3.732050808	0.96592583	-2.588190E-01	0.2543331	1.93185165	0.131652498	3.73205081	7.20976852	3.64639508	0.12716655	3.48205081	0.1643443	0.32868854	0.2456669
8	2.094395102	-1.732050808	0.8660254	-0.5	0.22802881	1.73205081	0.131652498	3.34606521	6.464101615	2.93114585	0.11401441	2.79903811	0.1321077	0.26421549	0.19747875
9	2.356194490	-1	0.70710678	-0.707106781	0.18618475	1.41421356	0.131652498	2.73205081	5.277916868	1.95409723	0.09309237	1.8660254	0.0880718	0.17614366	0.1316525
10	2.617993878	-0.577350269	0.5	-0.866025404	0.1316525	1	0.131652498	1.93185165	3.732050808	0.97704862	0.06582625	0.9330127	0.0440359	0.08807183	0.06582625
11	2.879793266	-0.267949192	0.25881905	-0.965925826	0.06814835	0.51763809	0.131652498	1	1.931851653	0.26179939	0.03407417	0.25	0.0117994	0.02359878	0.01763809
α1/4	0.130899694	0.131652498											SUM	2.11372391	1.57982997
													SHARE %	67.2819217	50.287550
													log share		

32-gon	2*(15+1)	Series *n* =15			Thickness	Length	Ratio								
	Angle		chord/2		INTERSECTION						ABSCHNITT				**Rhombi**
Perpendicular	11.25	tan	sin	cos	2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*	**inscribed**
diagonal No	α/2 rad				= chord * tan α/4	eq 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49	α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment	**in circle**
1	0.196349541	0.198912367	0.19509032	0.980785280	0.03842944	0.39018064	0.098491403	1	1.961570561	0.19634954	0.01921472	0.19134172	0.0050078	0.01001565	0.00749721
2	0.392699082	0.414213562	0.38268343	0.923879533	0.07538206	0.76536686	0.098491403	1.96157056	3.847759065	0.75550573	0.03769103	0.73623682	0.0192689	0.03853781	0.02884746
3	0.589048623	0.668178638	0.55557023	0.831469612	0.10943778	1.11114047	0.098491403	2.84775907	5.586080346	1.59234209	0.05471889	1.55172998	0.0406121	0.08122423	0.06080038
4	0.785398163	1	0.70710678	0.707106781	0.13928788	1.41421356	0.098491403	3.62450979	7.109731692	2.5794579	0.06964394	2.51366975	0.0657881	0.1315763	0.0984914
5	0.981747704	1.496605763	0.83146961	0.555570233	0.16378522	1.66293922	0.098491403	4.26197263	8.360160037	3.5665737	0.08189261	3.47560951	0.0909642	0.18192837	0.13618243
6	1.178097245	2.414213562	0.92387953	0.382683432	0.18198838	1.84775907	0.098491403	4.73565025	9.28931212	4.40341006	0.09099419	4.29110267	0.1123074	0.22461479	0.16813534
7	1.374446786	5.027339492	0.98078528	0.195090322	0.19319784	1.96157056	0.098491403	5.02733949	9.861481147	4.96256625	0.09659892	4.83599778	0.1265685	0.25313695	0.1894856
8	1.570796327	1.63312E+16	1	6.12323E-17	0.19698281	2	0.098491403	5.1258309	10.05467898	5.15891579	0.0984914	5.02733949	0.1315763	0.2631526	0.19698281
9	1.767145868	-5.027339492	0.98078528	-0.195090322	0.19319784	1.96157056	0.098491403	5.02733949	9.861481147	4.96256625	0.09659892	4.83599778	0.1265685	0.25313695	0.1894856
10	1.963495408	-2.414213562	0.92387953	-0.382683432	0.18198838	1.84775907	0.098491403	4.73565025	9.28931212	4.40341006	0.09099419	4.29110267	0.1123074	0.22461479	0.16813534
11	2.159844949	-1.496605763	0.83146961	-0.555570233	0.16378522	1.66293922	0.098491403	4.26197263	8.360160037	3.5665737	0.08189261	3.47560951	0.0909642	0.18192837	0.13618243
12	2.35619449	-1	0.70710678	-0.707106781	0.13928788	1.41421356	0.098491403	3.62450979	7.109731692	2.5794579	0.06964394	2.51366975	0.0657881	0.1315763	0.0984914
13	2.552544031	-0.668178638	0.55557023	-0.831469612	0.10943778	1.11114047	0.098491403	2.84775907	5.586080346	1.59234209	0.05471889	1.55172998	0.0406121	0.08122423	0.06080038
14	2.748893572	-0.414213562	0.38268343	-0.923879533	0.07538206	0.76536686	0.098491403	1.96157056	3.847759065	0.75550573	0.03769103	0.73623682	0.0192689	0.03853781	0.02884746
15	2.945243113	-0.198912367	0.19509032	-0.980785280	0.03842944	0.39018064		1	1.961570561	0.19634954	0.01921472	0.19134172	0.0050078	0.01001565	0.00749721
α1/4	0.09817477	0.098491403							SUM				SUM	2.10522077	1.57586245
									SHARE %				SHARE %	67.0112584	50.1612598
									log share				log share	1.82614777	

Hexacontitet	2*(31+1)	Series *n* =31			Thickness	Length	Ratio								
	Angle		chord/2		INTERSECTION						ABSCHNITT				**Rhombi**
Perpendicular	5.625	tan	sin	cos	2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*	**inscribed**

diagonal No	$\alpha/2$ rad				= chord * tan $\alpha/4$	eq 2 sin $\alpha/2$	2h/chord	sin($\alpha i/2$):sin($\alpha 1/2$)	pi x K49 - D49	$\alpha/180$	R-R*cos($\alpha/2$)	0.5*(R-h)*chord	Sector-triangle	2*Segment	**in circle**
1	0.098174770	0.098491403	0.09801714	0.995184727	0.00963055	0.19603428	0.04912685	1	1.990369453	0.09817477	0.00481527	0.09754516	0.0006296	0.00125922	0.00094396
2	0.196349541	0.198912367	0.19509032	0.980785280	0.01916835	0.39018064	0.04912685	1.99036945	3.961570561	0.38892628	0.00958417	0.38643204	0.0024942	0.00498848	0.00373956
3	0.294524311	0.303346684	0.29028468	0.956940336	0.02852154	0.58056935	0.04912685	2.96157056	5.894619578	0.86108111	0.01426077	0.85555887	0.0055222	0.01104448	0.00827937
4	0.392699082	0.414213562	0.38268343	0.923879533	0.03760006	0.76536686	0.04912685	3.90425012	7.770900187	1.49649462	0.01880003	1.48689738	0.0095972	0.01919449	0.01438892
5	0.490873852	0.534511136	0.47139674	0.881921264	0.04631647	0.94279347	0.04912685	4.80932963	9.572342778	2.27074822	0.02315824	2.25618557	0.0145626	0.02912529	0.02183343
6	0.589048623	0.668178638	0.55557023	0.831469612	0.05458683	1.11114047	0.04912685	5.66809265	11.28159848	3.15408778	0.02729342	3.13386015	0.0202276	0.04045527	0.03032682
7	0.687223393	0.820678791	0.63439328	0.773010453	0.06233149	1.26878657	0.04912685	6.47226885	12.88220621	4.11256706	0.03116574	4.08619255	0.0263745	0.05274901	0.03954268
8	0.785398163	1	0.70710678	0.707106781	0.06947586	1.41421356	0.04912685	7.21411356	14.35875126	5.10935223	0.03473793	5.07658519	0.032767	0.06553407	0.04912685
9	0.883572934	1.218503526	0.77301045	0.634393284	0.07595114	1.54602091	0.04912685	7.88648241	15.69701369	6.1061374	0.03797557	6.06697783	0.0391596	0.07831914	0.05871102
10	0.981747704	1.496605763	0.83146961	0.555570233	0.0816950	1.66293922	0.04912685	8.48290013	16.88410529	7.06461668	0.04084748	7.01931024	0.0453064	0.09061288	0.06792688
11	1.079922475	1.870868412	0.88192126	0.471396737	0.0866520	1.76384253	0.04912685	8.99762288	17.90859373	7.94795624	0.04332601	7.89698481	0.0509714	0.10194285	0.07642027
12	1.178097245	2.414213562	0.92387953	0.382683432	0.09077458	1.84775907	0.04912685	9.4256936	18.76061262	8.72220984	0.04538729	8.66627301	0.0559368	0.11187366	0.08386478
13	1.276272016	3.296558209	0.95694034	0.290284677	0.09402293	1.91388067	0.04912685	9.76298974	19.43195656	9.35762335	0.04701146	9.29761152	0.0600118	0.12002366	0.08997433
14	1.374446786	5.027339492	0.98078528	0.195090322	0.09636578	1.96157056	0.04912685	10.006263	19.91616013	9.82977818	0.04818289	9.76673835	0.0630398	0.12607966	0.09451414
15	1.472621556	10.15317039	0.99518473	0.09801714	0.09778058	1.99036945	0.04912685	10.1531704	20.20856019	10.1205297	0.04889029	10.0556252	0.0649045	0.12980893	0.09730974
16	1.570796327	-2.61194E+15	1	-3.82857E-16	0.0982537	2	0.04912685	10.2022972	20.30634078	10.2187045	0.04912685	10.1531704	0.0655341	0.13106815	0.0982537
17	1.668971097	-10.15317039	0.99518473	-0.09801714	0.09778058	1.99036945	0.04912685	10.1531704	20.20856019	10.1205297	0.04889029	10.0556252	0.0649045	0.12980893	0.09730974
18	1.767145868	-5.027339492	0.98078528	-0.195090322	0.09636578	1.96157056	0.04912685	10.006263	19.91616013	9.82977818	0.04818289	9.76673835	0.0630398	0.12607966	0.09451414
19	1.865320638	-3.296558209	0.95694034	-0.290284677	0.09402293	1.91388067	0.04912685	9.76298974	19.43195656	9.35762335	0.04701146	9.29761152	0.0600118	0.12002366	0.08997433
20	1.963495408	-2.414213562	0.92387953	-0.382683432	0.09077458	1.84775907	0.04912685	9.4256936	18.76061262	8.72220984	0.04538729	8.66627301	0.0559368	0.11187366	0.08386478
21	2.061670179	-1.870868412	0.88192126	-0.471396737	0.0866520	1.76384253	0.04912685	8.99762288	17.90859373	7.94795624	0.04332601	7.89698481	0.0509714	0.10194285	0.07642027
22	2.159844949	-1.496605763	0.83146961	-0.555570233	0.0816950	1.66293922	0.04912685	8.48290013	16.88410529	7.06461668	0.04084748	7.01931024	0.0453064	0.09061288	0.06792688
23	2.258019720	-1.218503526	0.77301045	-0.634393284	0.07595114	1.54602091	0.04912685	7.88648241	15.69701369	6.1061374	0.03797557	6.06697783	0.0391596	0.07831914	0.05871102
24	2.356194490	-1	0.70710678	-0.707106781	0.06947586	1.41421356	0.04912685	7.21411356	14.35875126	5.10935223	0.03473793	5.07658519	0.032767	0.06553407	0.04912685
25	2.454369261	-0.820678791	0.63439328	-0.773010453	0.06233149	1.26878657	0.04912685	6.47226885	12.88220621	4.11256706	0.03116574	4.08619255	0.0263745	0.05274901	0.03954268
26	2.552544031	-0.668178638	0.55557023	-0.831469612	0.05458683	1.11114047	0.04912685	5.66809265	11.28159848	3.15408778	0.02729342	3.13386015	0.0202276	0.04045527	0.03032682
27	2.650718801	-0.534511136	0.47139674	-0.881921264	0.04631647	0.94279347	0.04912685	4.80932963	9.572342778	2.27074822	0.02315824	2.25618557	0.0145626	0.02912529	0.02183343
28	2.748893572	-0.414213562	0.38268343	-0.923879533	0.03760006	0.76536686	0.04912685	3.90425012	7.770900187	1.49649462	0.01880003	1.48689738	0.0095972	0.01919449	0.01438892
29	2.847068342	-0.303346684	0.29028468	-0.956940336	0.02852154	0.58056935	0.04912685	2.96157056	5.894619578	0.86108111	0.01426077	0.85555887	0.0055222	0.01104448	0.00827937
30	2.945243113	-0.198912367	0.19509032	-0.98078528	0.01916835	0.39018064	0.04912685	1.99036945	3.961570561	0.38892628	0.00958417	0.38643204	0.0024942	0.00498848	0.00373956
31	3.043417883	-0.098491403	0.09801714	-0.995184727	0.00963055	0.19603428	0.04912685	1	1.990369453	0.09817477	0.00481527	0.09754516	0.0006296	0.00125922	0.00094396
$\alpha 1/4$	0.049087385	0.049126850							SUM				SUM	2.09709033	1.57205919
									SHARE %				SHARE %	66.7524584	50.0401983
									log share				log share	1.82446726	

128-gon	2*(63+1)	Series n=63			Thickness	Length	Ratio								
	Angle		chord/2			INTERSECTION						ABSCHNITT			**Rhombi**
Perpendicular	2.8125				2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*	**inscribed**
diagonal No	$\alpha/2$ rad	tan	sin	cos	= chord * tan $\alpha/4$	eq 2 sin $\alpha/2$	2h/chord	sin($\alpha i/2$):sin($\alpha 1/2$)	pi x K49 - D49	$\alpha/180$	R-R*cos($\alpha/2$)	0.5*(R-h)*chord	Sector-triangle	2*Segment	**in circle**
1	0.049087385	0.049126850	0.04906767	0.998795456	0.00240909	0.09813535	0.024548622	1	1.997590912	0.04908739	0.00120454	0.04900857	7.882E-05	0.00015763	0.00011821
2	0.098174770	0.098491403	0.09801714	0.995184727	0.00481237	0.19603428	0.024548622	1.99759091	3.990369453	0.19587680	0.00240619	0.1955623	0.0003145	0.000629	0.00047169
3	0.147262156	0.148335988	0.14673047	0.98917651	0.00720406	0.29346095	0.024548622	2.99036945	5.973534845	0.43895459	0.00360203	0.4382498	0.0007048	0.00140958	0.00105706
4	0.196349541	0.198912367	0.19509032	0.98078528	0.0095784	0.39018064	0.024548622	3.97594393	7.942309467	0.77597977	0.0047892	0.77473386	0.0012459	0.00249184	0.00186865
5	0.245436926	0.250486960	0.24298018	0.970031253	0.01192966	0.48596036	0.024548622	4.95194001	9.891950371	1.20370662	0.00596483	1.20177394	0.0019327	0.00386536	0.00289867
6	0.294524311	0.303346684	0.29028468	0.956940336	0.01425218	0.58056935	0.024548622	5.91600644	11.8177607	1.71801588	0.00712609	1.71525743	0.0027585	0.00551692	0.00413719
7	0.343611696	0.357805721	0.33688985	0.941544065	0.01654036	0.67377971	0.024548622	6.86582069	13.71510101	2.31395449	0.00827018	2.31023918	0.0037153	0.0074306	0.00557228
8	0.392699082	0.414213562	0.38268343	0.923879533	0.0187887	0.76536686	0.024548622	7.79909457	15.57940044	2.98578321	0.00939435	2.98098922	0.004794	0.00958799	0.00719012
9	0.441786467	0.472964776	0.42755509	0.903989293	0.02099178	0.85511019	0.024548622	8.71357975	17.40616772	3.72703198	0.01049589	3.72104783	0.0059841	0.0119683	0.00897514
10	0.490873852	0.534511136	0.47139674	0.881921264	0.02314428	0.94279347	0.024548622	9.60707316	19.19100203	4.53056217	0.01157214	4.52328787	0.0072743	0.0145486	0.01091014
11	0.539961237	0.599376934	0.51410274	0.85772861	0.02524103	1.02820549	0.024548622	10.4774223	20.92960353	5.38863534	0.01262051	5.37998331	0.008652	0.01730406	0.01297648
12	0.589048623	0.668178638	0.55557023	0.831469612	0.02727697	1.11114047	0.024548622	11.3225304	22.61778378	6.29298777	0.01363848	6.2828837	0.0101041	0.02020813	0.01515427
13	0.638136008	0.741650546	0.5956993	0.803207531	0.02924719	1.19139861	0.024548622	12.1403615	24.25147581	7.23491006	0.0146236	7.22329364	0.0116164	0.02323284	0.01742253
14	0.687223393	0.820678791	0.63439328	0.773010453	0.03114696	1.26878657	0.024548622	12.9289454	25.82674391	8.20533098	0.01557348	8.19215645	0.0131745	0.02634907	0.01975942
15	0.736310778	0.906347169	0.67155895	0.740951125	0.03297169	1.34311791	0.024548622	13.6863824	27.33979313	9.19490485	0.01648585	9.18014145	0.0147634	0.02952681	0.02214244

16	0.785398163	1	0.70710678	0.707106781	0.03471699	1.41421356	0.024548622	14.4108477	28.78697838	10.1941015	0.0173585	10.1777338	0.0163677	0.03273544	0.02454862
17	0.834485549	1.103329976	0.74095113	0.671558955	0.03637866	1.48190225	0.024548622	15.100596	30.16481329	11.1932982	0.01818933	11.1753262	0.017972	0.03594408	0.02695481
18	0.883572934	1.218503526	0.77301045	0.634393284	0.03795268	1.54602091	0.024548622	15.7539656	31.46997851	12.1828721	0.01897634	12.1633112	0.0195609	0.03912181	0.02933782
19	0.932660319	1.348343913	0.80320753	0.595699304	0.03943528	1.60641506	0.024548622	16.3693825	32.69932981	13.153293	0.01971764	13.132174	0.021119	0.04223804	0.03167471
20	0.981747704	1.496605763	0.83146961	0.555570233	0.04082287	1.66293922	0.024548622	16.9453642	33.84990555	14.0952153	0.02041143	14.0725839	0.0226314	0.04526275	0.03394297
21	1.030835089	1.668399206	0.85772861	0.514102744	0.04211211	1.71545722	0.024548622	17.480523	34.9189339	14.9995677	0.02105606	14.9754843	0.0240834	0.04816682	0.03612076
22	1.079922475	1.870868412	0.88192126	0.471396737	0.0432999	1.76384253	0.024548622	17.9735697	35.90383949	15.8576409	0.02164995	15.8321798	0.0254611	0.05092228	0.03818711
23	1.12900986	2.114322358	0.90398929	0.427555093	0.04438338	1.80797859	0.024548622	18.4233165	36.80224958	16.6611711	0.02219169	16.6344198	0.0267513	0.05350258	0.0401221
24	1.178097245	2.414213562	0.92387953	0.382683432	0.04535994	1.84775907	0.024548622	18.8286799	37.61199983	17.4024199	0.02267997	17.3744784	0.0279414	0.05588289	0.04190712
25	1.22718463	2.794812772	0.94154407	0.336889853	0.04622722	1.88308813	0.024548622	19.1886833	38.33113947	18.0742486	0.02311361	18.0452284	0.0290201	0.05804028	0.04352496
26	1.276272016	3.296558209	0.95694034	0.290284677	0.04698313	1.91388067	0.024548622	19.5024596	38.95793605	18.6701872	0.02349157	18.6402102	0.029977	0.05995397	0.04496006
27	1.325359401	3.992223784	0.97003125	0.24298018	0.04762586	1.94006251	0.024548622	19.7692527	39.49087954	19.1844964	0.02381293	19.1536937	0.0308028	0.06160552	0.04619857
28	1.374446786	5.027339492	0.98078528	0.195090322	0.04815385	1.96157056	0.024548622	19.9884199	39.92868604	19.6122233	0.02407693	19.5807338	0.0314895	0.06297904	0.04722859
29	1.423534171	6.741452405	0.98917651	0.146730474	0.04856584	1.97835302	0.024548622	20.1594333	40.27030085	19.9492485	0.02428292	19.9172178	0.0320307	0.0640613	0.04804019
30	1.472621556	10.15317039	0.99518473	0.09801714	0.04886083	1.99036945	0.024548622	20.2818809	40.51490097	20.1923263	0.02443041	20.1599053	0.0324209	0.06484188	0.04862555
31	1.521708942	20.35546762	0.99879546	0.049067674	0.0490381	1.99759091	0.024548622	20.3554676	40.66189715	20.3391157	0.02451905	20.3064591	0.0326566	0.06531325	0.04897904
32	1.570796327	-9.53297E+14	1	-1.04899E-15	0.04909724	2	0.024548622	20.3800162	40.71093525	20.3882031	0.02454862	20.3554676	0.0327354	0.06547088	0.04909724
33	1.619883712	-20.35546762	0.99879546	0.049067674	0.0490381	1.99759091	0.024548622	20.3554676	40.66189715	20.3391157	0.02451905	20.3064591	0.0326566	0.06531325	0.04897904
34	1.668971097	-10.15317039	0.99518473	0.09801714	0.04886083	1.99036945	0.024548622	20.2818809	40.51490097	20.1923263	0.02443041	20.1599053	0.0324209	0.06484188	0.04862555
35	1.718058482	-6.741452405	0.98917651	0.146730474	0.04856584	1.97835302	0.024548622	20.1594333	40.27030085	19.9492485	0.02428292	19.9172178	0.0320307	0.0640613	0.04804019
36	1.767145868	-5.027339492	0.98078528	0.195090322	0.04815385	1.96157056	0.024548622	19.9884199	39.92868604	19.6122233	0.02407693	19.5807338	0.0314895	0.06297904	0.04722859
37	1.816233253	-3.992223784	0.97003125	0.24298018	0.04762586	1.94006251	0.024548622	19.7692527	39.49087954	19.1844964	0.02381293	19.1536937	0.0308028	0.06160552	0.04619857
38	1.865320638	-3.296558209	0.95694034	0.290284677	0.04698313	1.91388067	0.024548622	19.5024596	38.95793605	18.6701872	0.02349157	18.6402102	0.029977	0.05995397	0.04496006
39	1.914408023	-2.794812772	0.94154407	0.336889853	0.04622722	1.88308813	0.024548622	19.1886833	38.33113947	18.0742486	0.02311361	18.0452284	0.0290201	0.05804028	0.04352496
40	1.963495408	-2.414213562	0.92387953	0.382683432	0.04535994	1.84775907	0.024548622	18.8286799	37.61199983	17.4024199	0.02267997	17.3744784	0.0279414	0.05588289	0.04190712
41	2.012582794	-2.114322358	0.90398929	0.427555093	0.04438338	1.80797859	0.024548622	18.4233165	36.80224958	16.6611711	0.02219169	16.6344198	0.0267513	0.05350258	0.0401221
42	2.061670179	-1.870868412	0.88192126	0.471396737	0.0432999	1.76384253	0.024548622	17.9735697	35.90383949	15.8576409	0.02164995	15.8321798	0.0254611	0.05092228	0.03818711
43	2.110757564	-1.668399206	0.85772861	0.514102744	0.04211211	1.71545722	0.024548622	17.480523	34.9189339	14.9995677	0.02105606	14.9754843	0.0240834	0.04816682	0.03612076
44	2.159844949	-1.496605763	0.83146961	0.555570233	0.04082287	1.66293922	0.024548622	16.9453642	33.84990555	14.0952153	0.02041143	14.0725839	0.0226314	0.04526275	0.03394297
45	2.208932335	-1.348343913	0.80320753	0.595699304	0.03943528	1.60641506	0.024548622	16.3693825	32.69932981	13.153293	0.01971764	13.132174	0.021119	0.04223804	0.03167471
46	2.25801972	-1.218503526	0.77301045	0.634393284	0.03795268	1.54602091	0.024548622	15.7539656	31.46997851	12.1828721	0.01897634	12.1633112	0.0195609	0.03912181	0.02933782
47	2.307107105	-1.103329976	0.74095113	0.671558955	0.03637866	1.48190225	0.024548622	15.100596	30.16481329	11.1932982	0.01818933	11.1753262	0.017972	0.03594408	0.02695481
48	2.35619449	-1	0.70710678	0.707106781	0.03471699	1.41421356	0.024548622	14.4108477	28.78697838	10.1941015	0.0173585	10.1777338	0.0163677	0.03273544	0.02454862
49	2.405281875	-0.906347169	0.67155895	0.740951125	0.03297169	1.34311791	0.024548622	13.6863824	27.33979313	9.19490485	0.01648585	9.18014145	0.0147634	0.02952681	0.02214244
50	2.454369261	-0.820678791	0.63439328	0.773010453	0.03114696	1.26878657	0.024548622	12.9289454	25.82674391	8.20533098	0.01557348	8.19215645	0.0131745	0.02634907	0.01975942
51	2.503456646	-0.741650546	0.5956993	0.803207531	0.02924719	1.19139861	0.024548622	12.1403615	24.25147581	7.23491006	0.0146236	7.22329364	0.0116164	0.02323284	0.01742253
52	2.552544031	-0.668178638	0.55557023	0.831469612	0.02727697	1.11114047	0.024548622	11.3225304	22.61778378	6.29298777	0.01363848	6.2828837	0.0101041	0.02020813	0.01515427
53	2.601631416	-0.599376934	0.51410274	0.85772861	0.02524103	1.02820549	0.024548622	10.4774223	20.92960353	5.38863534	0.01262051	5.37998331	0.008652	0.01730406	0.01297648
54	2.650718801	-0.534511136	0.47139674	0.881921264	0.02314428	0.94279347	0.024548622	9.60707316	19.19100203	4.53056217	0.01157214	4.52328787	0.0072743	0.0145486	0.01091014
55	2.699806187	-0.472964776	0.42755509	0.903989293	0.02099178	0.85511019	0.024548622	8.71357975	17.40616772	3.72703198	0.01049589	3.72104783	0.0059841	0.0119683	0.00897514
56	2.748893572	-0.414213562	0.38268343	0.923879533	0.0187887	0.76536686	0.024548622	7.79909457	15.57940044	2.98578321	0.00939435	2.98098922	0.004794	0.00958799	0.00719012
57	2.797980957	-0.357805721	0.33688985	0.941544065	0.01654036	0.67377971	0.024548622	6.86582069	13.71510101	2.31395449	0.00827018	2.31023918	0.0037153	0.0074306	0.00557228
58	2.847068342	-0.303346684	0.29028468	0.956940336	0.01425218	0.58056935	0.024548622	5.91600644	11.8177607	1.71801588	0.00712609	1.71525743	0.0027585	0.00551692	0.00413719
59	2.896155728	-0.250486960	0.24298018	0.970031253	0.01192966	0.48596036	0.024548622	4.95194001	9.891950371	1.20370662	0.00596483	1.20177394	0.0019327	0.00386536	0.00289867
60	2.945243113	-0.198912367	0.19509032	0.98078528	0.0095784	0.39018064	0.024548622	3.97594393	7.942309467	0.77597977	0.0047892	0.77473386	0.0012459	0.00249184	0.00186865
61	2.994330498	-0.148335988	0.14673047	0.98917651	0.00720406	0.29346095	0.024548622	2.99036945	5.973534845	0.43895459	0.00360203	0.4382498	0.0007048	0.00140958	0.00105706
62	3.043417883	-0.098491403	0.09801714	0.995184727	0.00481237	0.19603428	0.024548622	1.99759091	3.990369453	0.1958768	0.00240619	0.1955623	0.0003145	0.000629	0.00047169
63	3.092505268	-0.049126850	0.04906767	0.998795456	0.00240909	0.09813535	0.024548622	1	1.997590912	0.04908739	0.00120454	0.04900857	7.882E-05	0.00015763	0.00011821
α1/4	0.024543693	0.024548622	0.02454123	-0.999698819									SUM	2.09506821	1.57111181
													SHARE %	66.6880925	50.0100423
													log share	1.8240483	

0.5*J262*J262*B263

256-gon	2*(127+1)	Series n=127		Thickness	Length	Ratio								
	Angle	chord/2		INTERSECTION					ABSCHNITT					**Rhombi**
	1.40625			2h	chord		RADIUS	ctrs distance	Sector	Sagita	ctr triangle	Segment	*Intersection*	**inscribed**

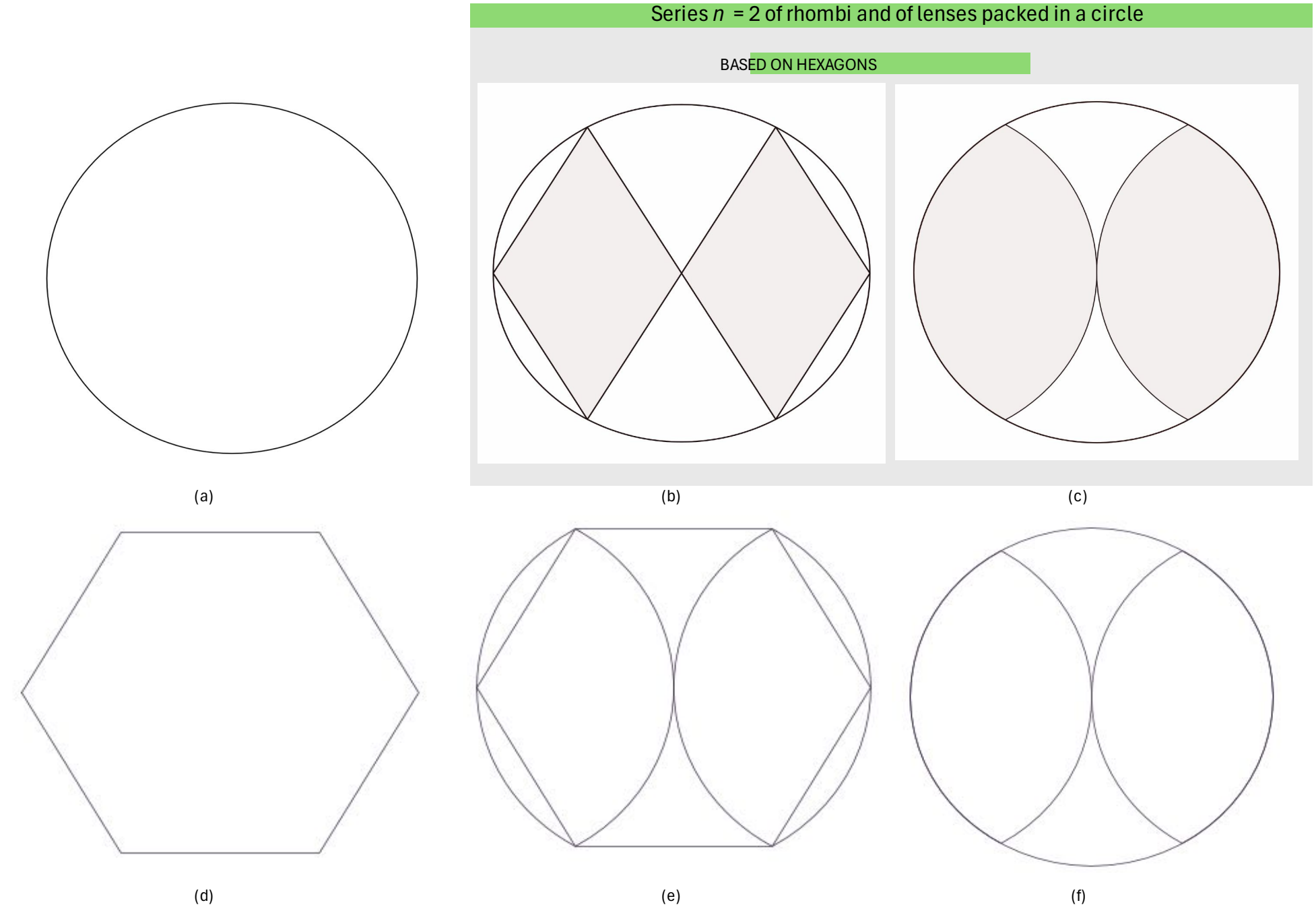
	α/2 rad	tan	sin	cos	= chord * tan α/4	eq 2 sin α/2	2h/chord	sin(αi/2):sin(α1/2)	pi x K49 - D49	α/180	R-R*cos(α/2)	0.5*(R-h)*chord	Sector-triangle	2*Segment	in circle
1	0.024543693	0.024548622	0.02454123	0.999698819	0.00060236	0.04908246	0.012272462	1	1.999397637	0.02454369	0.00030118	0.02453384	9.855E-06	1.9711E-05	1.4783E-05
2	0.049087385	0.049126850	0.04906767	0.998795456	0.00120436	0.09813535	0.012272462	1.99939764	3.997590912	0.09811564	0.00060218	0.09807624	3.94E-05	7.8796E-05	5.9095E-05
3	0.073631078	0.073764432	0.07356456	0.997290457	0.00180564	0.14712913	0.012272462	2.99759091	5.993376188	0.22053861	0.00090282	0.22045005	8.856E-05	0.00017711	0.00013283
4	0.09817477	0.098491403	0.09801714	0.995184727	0.00240582	0.19603428	0.012272462	3.99397855	7.985551278	0.39151766	0.00120291	0.39136045	0.0001572	0.00031443	0.00023581
5	0.122718463	0.123338236	0.12241068	0.992479535	0.00300456	0.24482135	0.012272462	4.98796037	9.972916171	0.6106409	0.00150228	0.6103957	0.0002452	0.0004904	0.00036779
6	0.147262156	0.148335988	0.14673047	0.98917651	0.00360149	0.29346095	0.012272462	5.97893762	11.95427375	0.87738044	0.00180074	0.87702813	0.0003523	0.00070462	0.00052845
7	0.171805848	0.173516460	0.17096189	0.985277642	0.00419625	0.34192378	0.012272462	6.96631339	13.92843052	1.19109367	0.00209812	1.19061539	0.0004783	0.00095656	0.0007174
8	0.196349541	0.198912367	0.19509032	0.98078528	0.00478848	0.39018064	0.012272462	7.9494929	15.89419733	1.55102485	0.00239424	1.55040204	0.0006228	0.00124562	0.00093419
9	0.220893233	0.224557509	0.21910124	0.97570213	0.00537782	0.43820248	0.012272462	8.92788395	17.85039007	1.95630685	0.00268891	1.9555213	0.0007855	0.0015711	0.00117829
10	0.245436926	0.250486960	0.24298018	0.970031253	0.00596393	0.48596036	0.012272462	9.90089716	19.7958304	2.40596332	0.00298197	2.40499722	0.0009661	0.00193221	0.00144912
11	0.269980619	0.276737270	0.26671276	0.963776066	0.00654644	0.53342551	0.012272462	10.8679465	21.72934646	2.898911	0.00327322	2.89774696	0.001164	0.0023281	0.00174602
12	0.294524311	0.303346684	0.29028468	0.956940336	0.00712502	0.58056935	0.012272462	11.8284493	23.64977358	3.43396234	0.00356251	3.43258345	0.0013789	0.00275779	0.00206828
13	0.319068004	0.330355377	0.31368174	0.949528181	0.00769929	0.62736348	0.012272462	12.7818271	25.55595495	4.00982835	0.00384965	4.00821821	0.0016101	0.00322027	0.00241513
14	0.343611696	0.357805721	0.33688985	0.941544065	0.00826894	0.67377971	0.012272462	13.7275057	27.44674238	4.62512171	0.00413447	4.62326451	0.0018572	0.00371441	0.00278572
15	0.368155389	0.385742566	0.35989504	0.932992799	0.0088336	0.71979007	0.012272462	14.6649153	29.32099691	5.27836014	0.0044168	5.27624063	0.0021195	0.00423902	0.00317917
16	0.392699082	0.414213562	0.38268343	0.923879533	0.00939294	0.76536686	0.012272462	15.5934913	31.17758957	5.96796992	0.00469647	5.9655735	0.0023964	0.00479284	0.00359452
17	0.417242774	0.443269514	0.40524131	0.914209756	0.00994662	0.81048263	0.012272462	16.5126743	33.01540202	6.69228972	0.00497331	6.68960245	0.0026873	0.00537454	0.00403078
18	0.441786467	0.472964776	0.42755509	0.903989293	0.01049431	0.85511019	0.012272462	17.4219108	34.83332723	7.44957459	0.00524715	7.44658324	0.0029914	0.00598271	0.00448689
19	0.46633016	0.503357700	0.44961133	0.893224301	0.01103568	0.89922266	0.012272462	18.3206529	36.63027014	8.23800017	0.00551784	8.23469223	0.0033079	0.00661589	0.00496177
20	0.490873852	0.534511136	0.47139674	0.881921264	0.0115704	0.94279347	0.012272462	19.2083594	38.40514834	9.05566708	0.0057852	9.0520308	0.0036363	0.00727255	0.00545425
21	0.515417545	0.566493003	0.49289819	0.870086991	0.01209815	0.98579638	0.012272462	20.0844954	40.15689272	9.90060547	0.00604907	9.89662991	0.0039756	0.00795111	0.00596316
22	0.539961237	0.599376934	0.51410274	0.85772861	0.01261861	1.02820549	0.012272462	20.9485334	41.88444809	10.7707798	0.00630931	10.7664549	0.004325	0.00864995	0.00648726
23	0.56450493	0.633243016	0.53499762	0.844853565	0.01313148	1.06999524	0.012272462	21.7999527	43.58677383	11.6640938	0.00656574	11.6594101	0.0046837	0.00936736	0.00702531
24	0.589048623	0.668178638	0.55557023	0.831469612	0.01363643	1.11114047	0.012272462	22.6382405	45.26284453	12.5783954	0.00681821	12.5733445	0.0050508	0.01010163	0.00757599
25	0.613592315	0.704279461	0.57580819	0.817584813	0.01413317	1.15161638	0.012272462	23.4628919	46.91165059	13.5114818	0.00706658	13.5060563	0.0054255	0.01085099	0.00813799
26	0.638136008	0.741650546	0.5956993	0.803207531	0.01462139	1.19139861	0.012272462	24.2734101	48.53219882	14.4611054	0.0073107	14.4552985	0.0058068	0.01161362	0.00870995
27	0.6626797	0.78040766	0.61523159	0.788346428	0.01510081	1.23046318	0.012272462	25.0693069	50.12351307	15.4249782	0.00755041	15.4187843	0.0061939	0.0123877	0.0092905
28	0.687223393	0.820678791	0.63439328	0.773010453	0.01557114	1.26878657	0.012272462	25.850103	51.68463479	16.4007783	0.00778557	16.3941926	0.0065857	0.01317136	0.00987822
29	0.711767086	0.862605932	0.65317284	0.757208847	0.01603208	1.30634569	0.012272462	26.6153278	53.21462362	17.3861549	0.00801604	17.3791735	0.0069814	0.01396271	0.01047172
30	0.736310778	0.906347169	0.67155895	0.740951125	0.01648336	1.34311791	0.012272462	27.3645207	54.71255795	18.378734	0.00824168	18.3713541	0.0073799	0.01475985	0.01106955
31	0.760854471	0.952079147	0.68954054	0.724247083	0.01692472	1.37908109	0.012272462	28.0972301	56.17753548	19.3761246	0.00846236	19.3683442	0.0077804	0.01556084	0.01167028
32	0.785398163	1	0.70710678	0.707106781	0.01735588	1.41421356	0.012272462	28.8130148	57.60867376	20.3759238	0.00867794	20.3677419	0.0081819	0.01636378	0.01227246
33	0.809941856	1.050332846	0.72424708	0.689540545	0.01777659	1.44849417	0.012272462	29.5114437	59.00511073	21.375723	0.0088883	21.3671397	0.0085834	0.01716671	0.01287464
34	0.834485549	1.103329976	0.74095113	0.671558955	0.01818659	1.48190225	0.012272462	30.1920959	60.36600523	22.3731136	0.00909329	22.3641298	0.0089839	0.01796771	0.01347537
35	0.859029241	1.159277907	0.75720885	0.653172843	0.01858563	1.51441769	0.012272462	30.8545616	61.69053751	23.3656928	0.00929282	23.3563104	0.0093824	0.01876484	0.01407321
36	0.883572934	1.218503526	0.77301045	0.634393284	0.01897348	1.54602091	0.012272462	31.4984416	62.97790971	24.3510694	0.00948674	24.3412913	0.0097781	0.01955619	0.0146667
37	0.908116626	1.28138158	0.78834643	0.615231591	0.0193499	1.57669286	0.012272462	32.1233481	64.22734638	25.3268695	0.00967495	25.3166995	0.0101699	0.02033985	0.01525443
38	0.932660319	1.348343913	0.80320753	0.595699304	0.01971467	1.60641506	0.012272462	32.7289048	65.43809489	26.2907423	0.00985733	26.2801853	0.010557	0.02111393	0.01583497
39	0.957204012	1.419890903	0.81758481	0.575808191	0.02006756	1.63516963	0.012272462	33.3147467	66.60942594	27.2403658	0.01003378	27.2294275	0.0109383	0.02187657	0.01640693
40	0.981747704	1.496605763	0.83146961	0.555570233	0.02040836	1.66293922	0.012272462	33.8805212	67.74063396	28.1734523	0.01020418	28.1621393	0.011313	0.02262592	0.01696893
41	1.006291397	1.579172568	0.84485357	0.53499762	0.02073687	1.68970713	0.012272462	34.4258872	68.83103756	29.0877538	0.01036843	29.0760737	0.0116801	0.02336019	0.01751962
42	1.030835089	1.668399206	0.85772861	0.514102744	0.02105288	1.71545722	0.012272462	34.9505164	69.87997992	29.9810678	0.01052644	29.969029	0.0120388	0.02407761	0.01805766
43	1.055378782	1.76524687	0.87008699	0.492898192	0.02135622	1.74017398	0.012272462	35.4540927	70.88682919	30.8512422	0.01067811	30.838854	0.0123882	0.02477644	0.01858177
44	1.079922475	1.870868412	0.88192126	0.471396737	0.02164669	1.76384253	0.012272462	35.9363128	71.85097888	31.6961806	0.01082335	31.6834531	0.0127275	0.025455	0.01909068
45	1.104466167	1.986658792	0.8932243	0.44961133	0.02192412	1.7864486	0.012272462	36.3968862	72.77184823	32.5138475	0.01096206	32.5007916	0.0130558	0.02611167	0.01958316
46	1.12900986	2.114322358	0.90398929	0.427555093	0.02218835	1.80797859	0.012272462	36.8355354	73.64888254	33.3022731	0.01109417	33.2889006	0.0133724	0.02674485	0.02005803
47	1.153553552	2.255963852	0.91420976	0.405241314	0.02243921	1.82841951	0.012272462	37.2519964	74.48155352	34.0595579	0.0112196	34.0458814	0.0136765	0.02735302	0.02051414
48	1.178097245	2.414213562	0.92387953	0.382683432	0.02267655	1.84775907	0.012272462	37.6460181	75.26935959	34.7838777	0.01133828	34.7699104	0.0139674	0.02793471	0.0209504
49	1.202640938	2.592402518	0.9329928	0.359895037	0.02290024	1.8659856	0.012272462	38.0173632	76.01182622	35.4734875	0.01145012	35.4592432	0.0142443	0.02848853	0.02136576
50	1.22718463	2.794812772	0.94154407	0.336889853	0.02311013	1.88308813	0.012272462	38.3658081	76.70850616	36.1267259	0.01155506	36.1122194	0.0145066	0.02901315	0.0217592
51	1.251728323	3.027043204	0.94952818	0.31368174	0.0233061	1.89905636	0.012272462	38.6911429	77.35897977	36.7420193	0.01165305	36.7272657	0.0147536	0.02950728	0.0221298
52	1.276272016	3.296558209	0.95694034	0.290284677	0.02348803	1.91388067	0.012272462	38.9931716	77.96285523	37.3178853	0.01174401	37.3029004	0.0149849	0.02996976	0.02247664
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54	1.325359401	3.992223784	0.97003125	0.24298018	0.02380934	1.94006251	0.012272462	39.5265971	79.02938494	38.3458843	0.01190467	38.3304867	0.0153977	0.03079534	0.02309581

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57	1.398990479	5.763142005	0.98527764	0.170961889	0.02418357	1.97055528	0.012272462	40.1478533	80.27152302	39.560754	0.01209178	39.5448685	0.0158855	0.03177099	0.02382753
58	1.423534171	6.741452405	0.98917651	0.146730474	0.02427926	1.97835302	0.012272462	40.3067234	80.58916754	39.8744672	0.01213963	39.8584557	0.0160115	0.03202293	0.02401648
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61	1.497165249	13.55666924	0.99729046	0.073564564	0.02447842	1.99458091	0.012272462	40.6373485	81.25021863	40.531309	0.01223921	40.5150338	0.0162752	0.03255044	0.02441209
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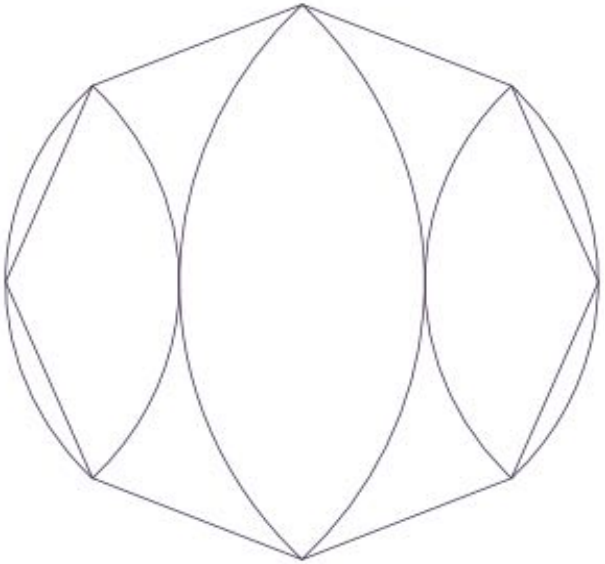
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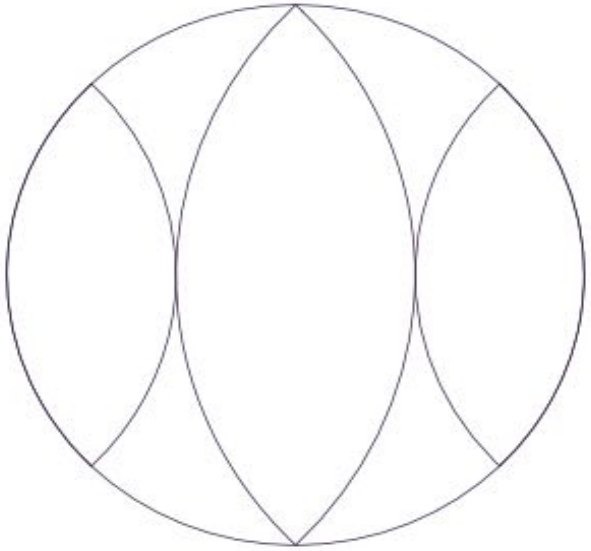
Series number	POLYGON No of vertices	Packed rhombi	Packed lenses		
			Area calcu-	Area (fration of disc)	
n	2(*n* + 1)	Area fraction (%)	lated units*	(%)	Log %
1	4	63.6619772	3.14159265	100.000000	2.00000000
2	6	55.1328895	2.4567394	78.20044379	1.89320922
3	8	52.7393088	2.28318531	72.67604553	1.86139129
4	10	51.7125758	2.2112016	70.38473287	1.84747847
5	12	51.1745261	2.17406577	69.20266275	1.84012281
6	14	50.8565079	2.15230539	68.51000846	1.8357540
7	16	50.6526184	2.1384280	68.06827706	1.83294476
11	24	50.2875498	2.11372391	67.28192168	1.82789839
15	32	50.1612598	2.10522077	67.01125844	1.82614777
31	64	50.0401983	2.09709033	66.75245843	1.82446726
63	128	50.0100423	2.09506821	66.68809245	1.8240483
127	256	50.0025101	2.09456334	66.67202173	1.82394362
			Limit	100*2/3	1.82390874

Figure 2 ST. Examples of series of rhombi and lenses that are packed in a circle.



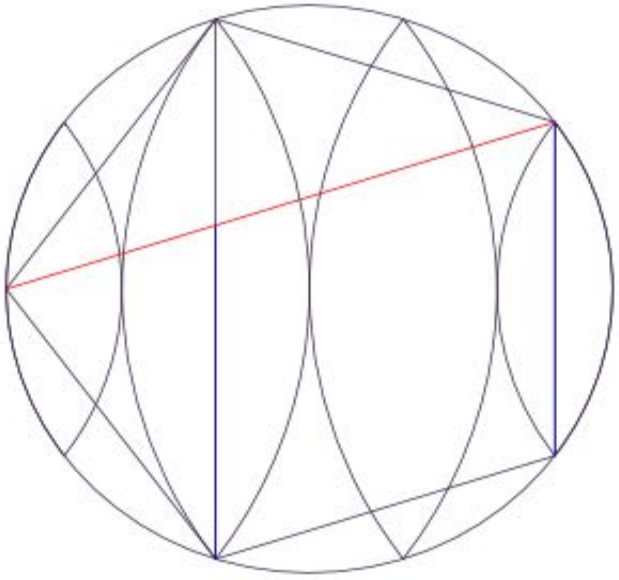
OCTAGON



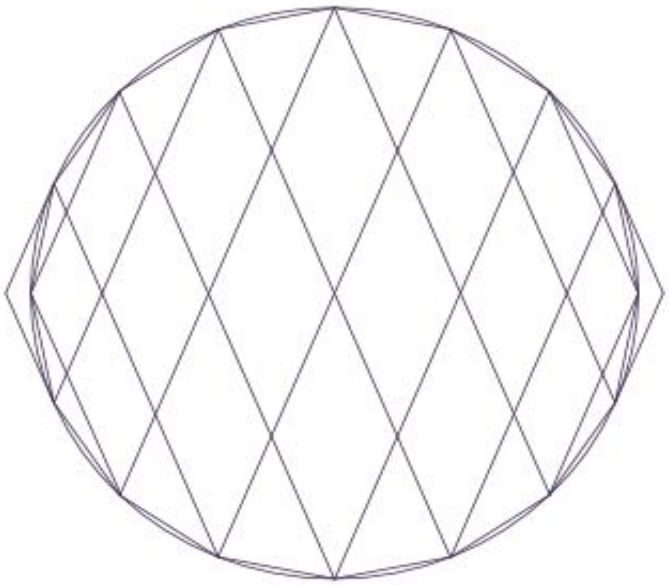


(g)

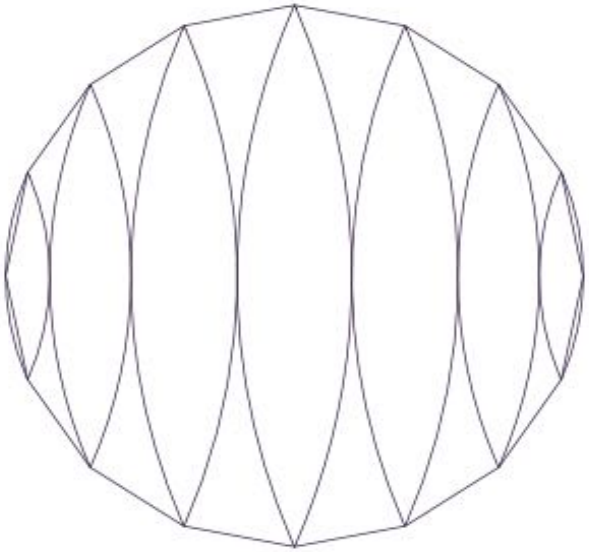
DECAGON



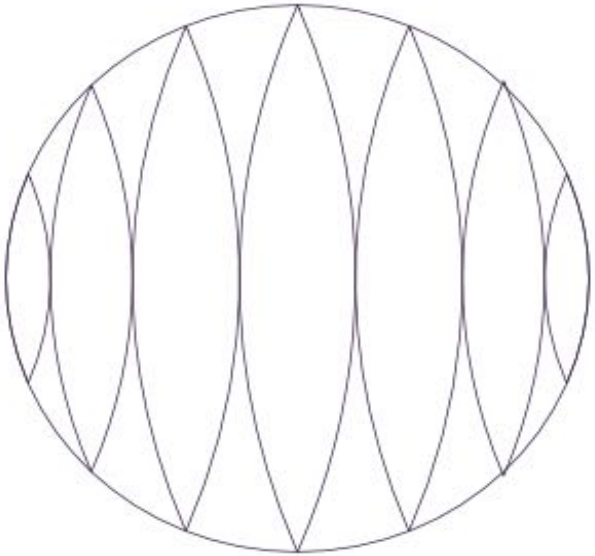
(i)



(j)

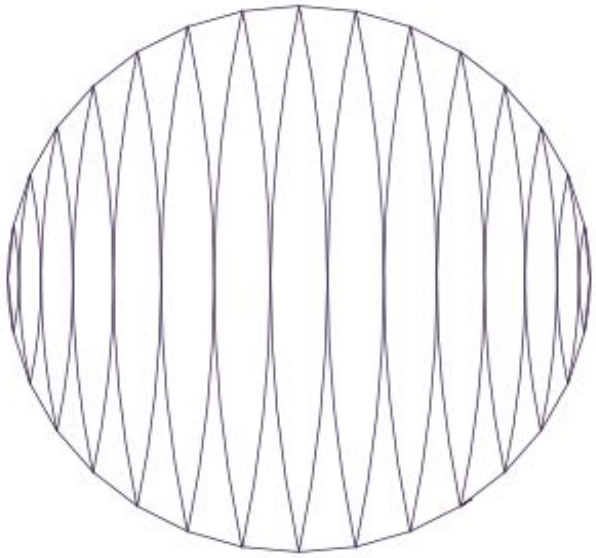


(k)

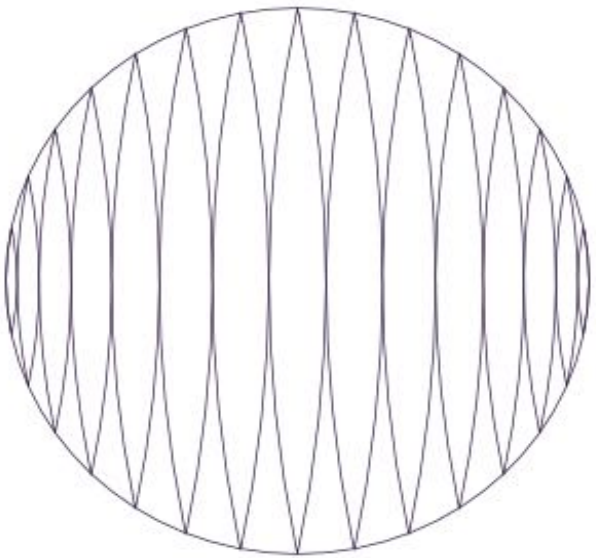


(l)

TRIACONTADIGON



(m)



(n)