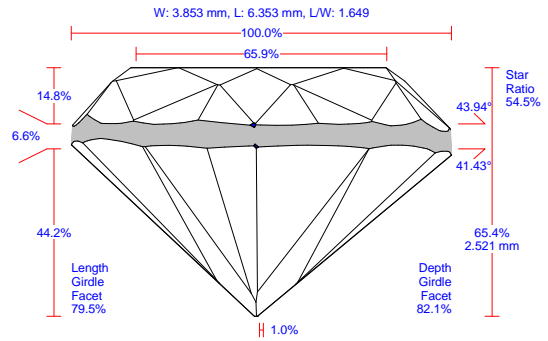


Full report for rounded fancies

Marquise

General information

Model	Simple
Expert name	Makoed A.G.
Report date	22.01.2008
Real weight, ct	
Calculated weight, ct	0.36, 0.3664
Appraiser title	AGS_2005
Overall cut quality	N/A
Symmetry appraiser title	Internal
Overall symmetry quality	PR
Spread	0.00 ct, 1.35 %
EF / Nat	Yes (4)



Main parameters

Parameter		Avg	Min	Max	Dev	Cut	Sym
Diameter (width & length)	mm		3.853	6.353	Ratio: 1.649	N/A	
Crown curve angle	°	43.94	43.49	44.40	0.91		
Crown head angle	°	N/A	N/A	N/A	N/A		
Crown point angle	°	28.19	28.06	28.32	0.26		
Crown wing angle	°	42.63	40.83	45.17	4.34		
Crown curve height	%	15.43	14.99	15.87	0.88		
Crown curve height	mm	0.595	0.578	0.612	0.034		
Crown head height	%	N/A	N/A	N/A	N/A		
Crown head height	mm	N/A	N/A	N/A	N/A		
Crown point height	%	14.83	14.41	15.24	0.83		
Crown point height	mm	0.571	0.555	0.587	0.032		
Crown wing height	%	13.35	10.97	14.89	3.92		
Crown wing height	mm	0.514	0.423	0.574	0.151		
Crown mains angle (obsolete)	°	43.94	43.49	44.40	0.91	N/A	VG
Crown nock angle (obsolete)	°	28.19	28.06	28.32	0.26		
Crown other angle (obsolete)	°	42.63	40.83	45.17	4.34		
Crown height	%	14.85	13.62	15.88	2.26		
Crown height	mm	0.572	0.525	0.612	0.087	N/A	GD
Crown height at girdle minima	%	15.41	14.03	16.79	2.76		
Crown height at girdle minima	mm	0.594	0.541	0.647	0.106	N/A	
Pavilion curve angle	°	41.43	39.71	43.14	3.43		
Pavilion head angle	°	N/A	N/A	N/A	N/A		
Pavilion point angle	°	N/A	N/A	N/A	N/A		
Pavilion wing angle	°	38.58	36.76	40.20	3.44		
Pavilion curve height	%	43.76	42.42	45.10	2.68		
Pavilion curve height	mm	1.686	1.635	1.738	0.103		
Pavilion head height	%	N/A	N/A	N/A	N/A		
Pavilion head height	mm	N/A	N/A	N/A	N/A		
Pavilion point height	%	N/A	N/A	N/A	N/A		
Pavilion point height	mm	N/A	N/A	N/A	N/A		
Pavilion wing height	%	44.39	43.37	45.49	2.12		
Pavilion wing height	mm	1.711	1.671	1.753	0.082		
Pavilion mains angle (obsolete)	°	41.43	39.71	43.14	3.43	N/A	FR
Pavilion nock angle (obsolete)	°	N/A	N/A	N/A	N/A		
Pavilion other angle (obsolete)	°	38.58	36.76	40.20	3.44		
Pavilion depth	%	44.20	42.43	45.49	3.07		
Pavilion depth	mm	1.703	1.635	1.753	0.118	N/A	FR
Pavilion depth at girdle minima	%	45.14	43.45	47.42	3.96		
Pavilion depth at girdle minima	mm	1.740	1.674	1.827	0.153	N/A	
Upper girdle facets angle	°	49.74	44.33	53.81	9.49		PR
Upper girdle facets height	%	11.26	9.17	13.45	4.28		
Upper girdle facets height	mm	0.434	0.353	0.518	0.165		
Point upper girdle facets angle	°	47.34	44.33	49.96	5.63		
Wing upper girdle facets angle	°	52.14	49.87	53.81	3.94		
Star facets angle	°	18.77	15.97	20.30	4.32		FR
Star point facets angle	°	20.08	19.74	20.30	0.55		
Star wing facets angle	°	17.45	15.97	18.60	2.63		
Star : Upper ratio	%	54.46 : 45.54	50.90 : 49.10	60.92 : 39.08	10.02		PR

Parameter		Avg	Min	Max	Dev	Cut	Sym
Lower girdle facets angle	°	40.02	35.67	44.20	8.53		PR
Lower girdle facets height	%	37.62	35.03	41.15	6.13		FR
Lower girdle facets height	mm	1.450	1.350	1.586	0.236		
Point lower girdle facets angle	°	37.28	35.67	39.18	3.51		
Wing lower girdle facets angle	°	42.07	39.67	44.20	4.53		
Depth Girdle Facet	%	82.07	78.77	91.28	12.51	N/A	
Length Girdle Facet	%	79.55	76.75	89.95	13.19		
Total height	%	65.43				N/A	
Total height	mm	2.521					
Table	%	65.94	64.96	66.92	1.96	N/A	VG
Table	mm	3.353	2.579	4.127	1.549		
Culet	%	1.01	0.53	1.38	0.85	N/A	EX
Culet	mm	0.039	0.020	0.053	0.033		
Twist	°	2.98	1.17	6.68	5.51		PR
Girdle thickness: Bezel	%	6.57	3.87	7.52	3.65	N/A	PR
Girdle thickness: Bezel	mm	0.253	0.149	0.290	0.141		
Girdle thickness: Bone	%	6.26	5.08	7.56	2.48		FR
Girdle thickness: Bone	mm	0.241	0.196	0.291	0.095		
Girdle thickness: Valley	%	5.22	3.66	6.97	3.31	N/A	FR
Girdle thickness: Valley	mm	0.201	0.141	0.269	0.128		

Detailed parameters

Parameter		1	2	3	4	5	6	7	8
Crown curve angle	°	43.49	44.40						
Crown head angle	°	N/A	N/A	N/A					
Crown point angle	°	28.32	28.06						
Crown wing angle	°	43.39	45.17	40.83	41.15				
Crown curve azimuth	°	2.57	182.95						
Crown head azimuth	°	N/A	N/A	N/A					
Crown point azimuth	°	92.56	273.40						
Crown wing azimuth	°	39.88	144.26	220.91	320.44				
Crown curve height	%	15.87	14.99						
Crown curve height	mm	0.612	0.578						
Crown head height	%	N/A	N/A	N/A					
Crown head height	mm	N/A	N/A	N/A					
Crown point height	%	14.41	15.24						
Crown point height	mm	0.555	0.587						
Crown wing height	%	13.72	13.81	10.97	14.89				
Crown wing height	mm	0.529	0.532	0.423	0.574				
Crown mains angle (obsolete)	°	43.49	44.40						
Crown nock angle (obsolete)	°	28.32	28.06						
Crown other angle (obsolete)	°	43.39	45.17	40.83	41.15	N/A	N/A	N/A	N/A
Crown mains azimuth (obsolete)	°	2.6	182.9						
Crown nock azimuth (obsolete)	°	92.6	273.4						
Crown other azimuth (obsolete)	°	39.9	144.3	220.9	320.4	N/A	N/A	N/A	N/A
Pavilion curve angle	°	39.71	43.14	N/A	N/A				
Pavilion head angle	°	N/A	N/A	N/A					
Pavilion point angle	°	N/A	N/A						
Pavilion wing angle	°	37.63	40.20	39.72	36.76				
Pavilion curve azimuth	°	0.81	179.19	N/A	N/A				
Pavilion head azimuth	°	N/A	N/A	N/A					
Pavilion point azimuth	°	N/A	N/A						
Pavilion wing azimuth	°	38.70	146.69	214.23	322.53				
Pavilion curve height	%	42.42	45.10	N/A	N/A				
Pavilion curve height	mm	1.635	1.738	N/A	N/A				
Pavilion head height	%	N/A	N/A	N/A					
Pavilion head height	mm	N/A	N/A	N/A					
Pavilion point height	%	N/A	N/A						
Pavilion point height	mm	N/A	N/A						
Pavilion wing height	%	44.03	44.67	45.49	43.37				
Pavilion wing height	mm	1.697	1.721	1.753	1.671				
Pavilion mains angle (obsolete)	°	39.71	43.14						
Pavilion nock angle (obsolete)	°	N/A	N/A						
Pavilion other angle (obsolete)	°	37.63	40.20	39.72	36.76	N/A	N/A	N/A	N/A
Pavilion mains azimuth (obsolete)	°	0.8	179.2						
Pavilion nock azimuth (obsolete)	°	N/A	N/A						
Pavilion other azimuth (obsolete)	°	38.7	146.7	214.2	322.5	N/A	N/A	N/A	N/A

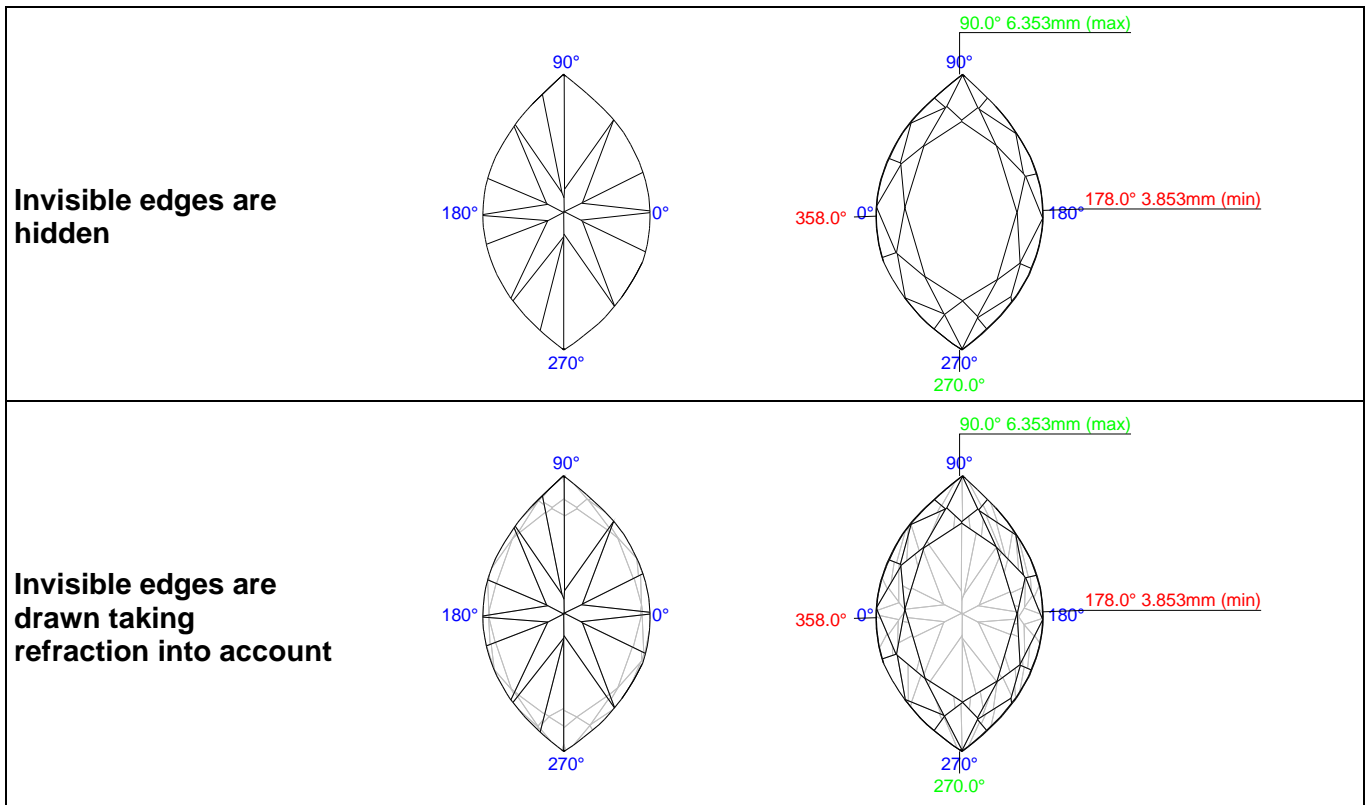
Parameter		1	2	3	4	5	6	7	8
Crown height	%	15.88	14.21	15.05	14.07	15.06	13.62	15.69	15.21
Crown height	mm	0.612	0.547	0.580	0.542	0.580	0.525	0.604	0.586
Crown height at girdle minima	%	16.79	15.28	14.92	15.17	15.15	14.91	14.71	15.41
		15.77	14.03	14.35	15.65	16.00	15.96	15.75	16.66
Crown height at girdle minima	mm	0.647	0.589	0.575	0.584	0.584	0.574	0.567	0.594
		0.608	0.541	0.553	0.603	0.617	0.615	0.607	0.642
Pavilion depth	%	42.43	44.15	44.67	45.10	45.49	43.38	N/A	N/A
Pavilion depth	mm	1.635	1.701	1.721	1.738	1.753	1.672	N/A	N/A
Pavilion depth at girdle minima	%	43.45	45.06	45.02	44.85	44.98	46.80	46.11	46.01
		47.42	45.38	43.86	44.25	44.98	43.86	N/A	N/A
Pavilion depth at girdle minima	mm	1.674	1.736	1.735	1.728	1.733	1.803	1.777	1.773
		1.827	1.749	1.690	1.705	1.733	1.690	N/A	N/A
Upper girdle facets angle	°	53.76	53.81	49.60	49.96	48.73	49.28	53.26	52.44
		52.11	51.51	46.04	45.93	44.33	44.87	49.87	50.38
Upper girdle facets height	%	13.45	11.27	10.38	10.73	10.64	10.47	11.29	11.54
		12.53	10.45	9.17	10.46	11.25	11.32	12.29	12.86
Upper girdle facets height	mm	0.518	0.434	0.400	0.414	0.410	0.404	0.435	0.445
		0.483	0.403	0.353	0.403	0.433	0.436	0.474	0.495
Upper girdle facets azimuth	°	11.5	31.9	45.2	50.9	130.1	141.4	150.7	176.5
		188.9	212.8	223.8	234.9	304.7	316.8	328.6	356.8
Point upper girdle facets angle	°	49.60	49.96	48.73	49.28	46.04	45.93	44.33	44.87
Wing upper girdle facets angle	°	53.76	53.81	53.26	52.44	52.11	51.51	49.87	50.38
Point upper girdle facets azimuth	°	45.2	50.9	130.1	141.4	223.8	234.9	304.7	316.8
Wing upper girdle facets azimuth	°	11.5	31.9	150.7	176.5	188.9	212.8	328.6	356.8
Star facets angle	°	18.60	19.74	20.15	17.92	17.32	20.30	20.15	15.97
Star : Upper ratio	%	53.28 : 46.72	53.29 : 46.71	52.52 : 47.48	60.92 : 39.08	56.07 : 43.93	50.90 : 49.10	51.19 : 48.81	57.52 : 42.48
Star facets azimuth	°	17.3	56.9	124.4	162.9	196.5	238.6	302.5	343.6
Star point facets angle	°	19.74	20.15	20.30	20.15				
Star wing facets angle	°	18.60	17.92	17.32	15.97				
Star point facets azimuth	°	56.9	124.4	238.6	302.5				
Star wing facets azimuth	°	17.3	162.9	196.5	343.6				
Lower girdle facets angle	°	40.98	40.16	36.70	36.19	38.98	43.38	44.20	43.98
		43.46	39.18	36.96	35.67	39.67	40.73	N/A	N/A
Lower girdle facets height	%	35.03	36.09	38.63	41.15	39.00	37.30	37.36	37.47
		38.76	38.84	36.82	38.50	36.04	35.74	N/A	N/A
Lower girdle facets height	mm	1.350	1.391	1.489	1.586	1.503	1.437	1.440	1.444
		1.493	1.497	1.419	1.484	1.389	1.377	N/A	N/A
Lower girdle facets azimuth	°	12.1	31.1	48.6	130.6	139.3	154.9	170.7	189.8
		203.7	218.2	224.9	312.2	330.8	350.1	N/A	N/A
Point lower girdle facets angle	°	36.70	36.19	38.98	39.18	36.96	35.67	N/A	N/A
Wing lower girdle facets angle	°	40.98	40.16	43.38	44.20	43.98	43.46	39.67	40.73
Point lower girdle facets azimuth	°	48.6	130.6	139.3	218.2	224.9	312.2	N/A	N/A
Wing lower girdle facets azimuth	°	12.1	31.1	154.9	170.7	189.8	203.7	330.8	350.1
Depth Girdle Facet	%	80.03	78.77	85.27	91.28	N/A	78.83	80.46	81.05
		80.79	84.70	83.55	N/A	79.12	80.99	N/A	N/A
Length Girdle Facet	%	78.19	76.88	83.66	89.95	N/A	76.75	78.46	78.19
		77.92	79.82	78.51	N/A	77.15	79.11	N/A	N/A
Table	%	66.92		64.96					
Table	mm	2.579		4.127					
Twist	°	1.76	1.17	2.43	3.76	6.68	2.09	N/A	N/A
Girdle Bezel	%	7.27	7.52	5.82	7.19	7.09	3.87	6.59	7.22
Girdle Bezel	mm	0.280	0.290	0.224	0.277	0.273	0.149	0.254	0.278
Girdle Bone	%	6.44	6.95	5.78	6.25	5.08	5.84	7.56	6.17
Girdle Bone	mm	0.248	0.268	0.223	0.241	0.196	0.225	0.291	0.238
Girdle Valley	%	5.21	6.56	5.12	5.66	5.34	5.42	5.61	3.98
		4.09	3.66	3.81	4.78	5.93	6.97	5.95	5.38
Girdle Valley	mm	0.201	0.253	0.197	0.218	0.206	0.209	0.216	0.154
		0.158	0.141	0.147	0.184	0.228	0.269	0.229	0.207

Offset		Distance	Width wise	Length wise
Culet-Table offset by table axis	%	0.70 ± 0.33	0.61	0.35
Culet-Table offset by table axis	mm	0.027 ± 0.013	0.023	0.014
Girdle-Culet offset by table axis	%	1.38 ± 0.32	1.38	0.07
Girdle-Culet offset by table axis	mm	0.053 ± 0.012	0.053	0.003
Girdle-Table offset by table axis	%	0.88 ± 0.29	0.77	0.42
Girdle-Table offset by table axis	mm	0.034 ± 0.011	0.030	0.016
Girdle to table-culet line offset	%	0.99		
Girdle to table-culet line offset	mm	0.038		

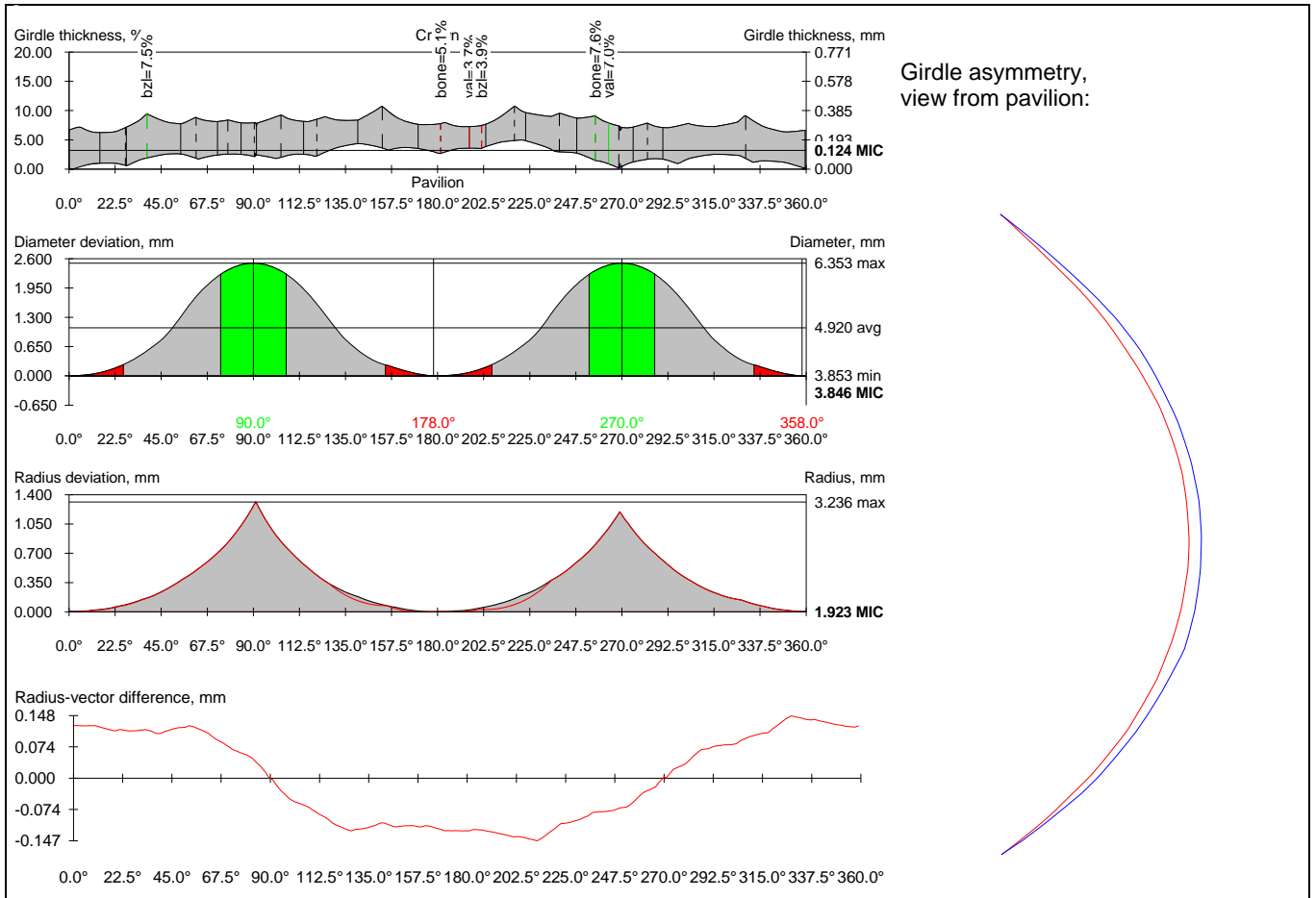
Culet shift ratio by width & length	
Width	3.853 mm, 100%
Width-wise culet shift ratio	1.871 mm, 48.56 % 1.985 mm, 51.50 %
Length	6.353 mm, 100%
Length-wise culet shift ratio	3.180 mm, 50.05 % 3.174 mm, 49.95 %

Culet shift ratio by main diameter	
Main diameter (width)	3.853 mm, (100%)
Width-wise culet shift ratio	1.871 mm, 48.56 % 1.985 mm, 51.50 %
Length-wise culet shift ratio	3.180 mm, 82.51 % 3.174 mm, 82.36 %

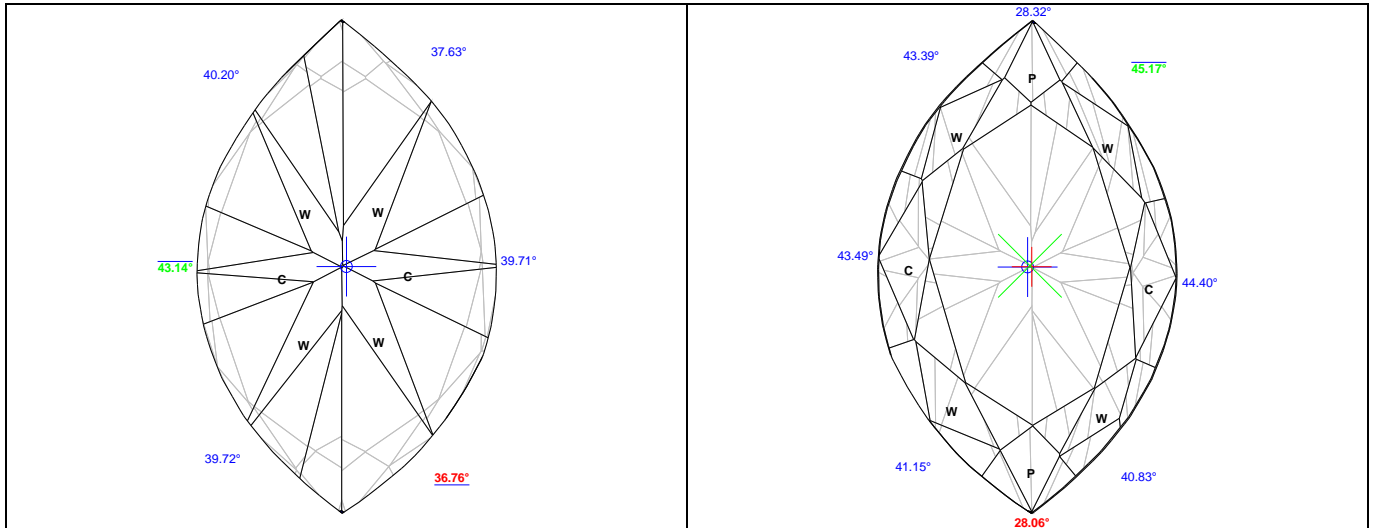
Crown and pavilion views of the diamond with indication of the diameter minimum and maximum



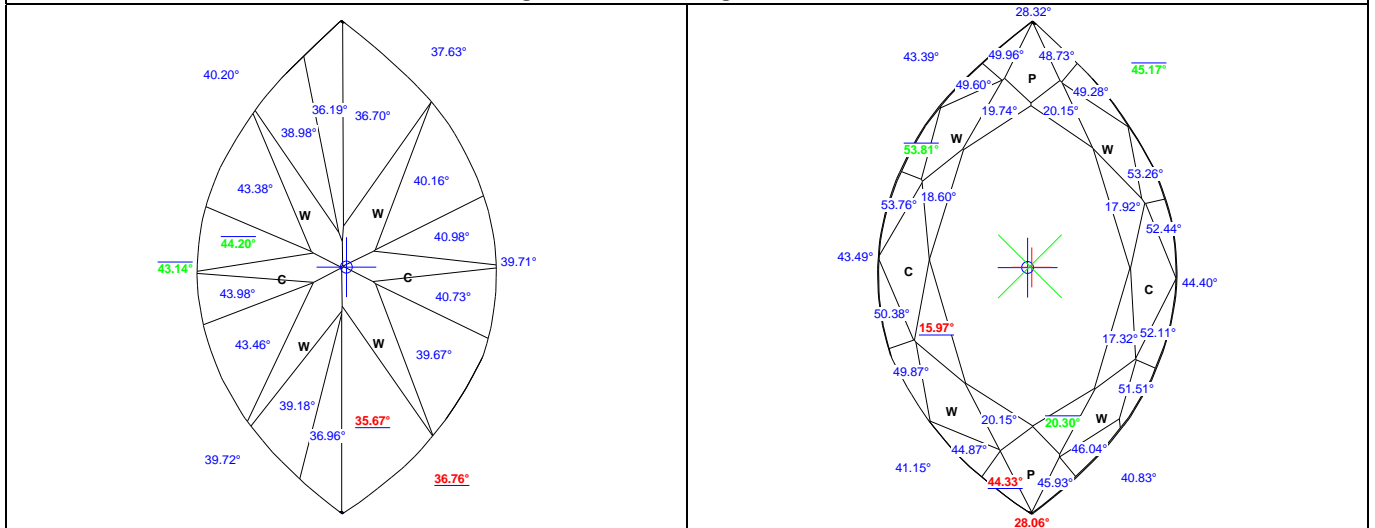
Plots



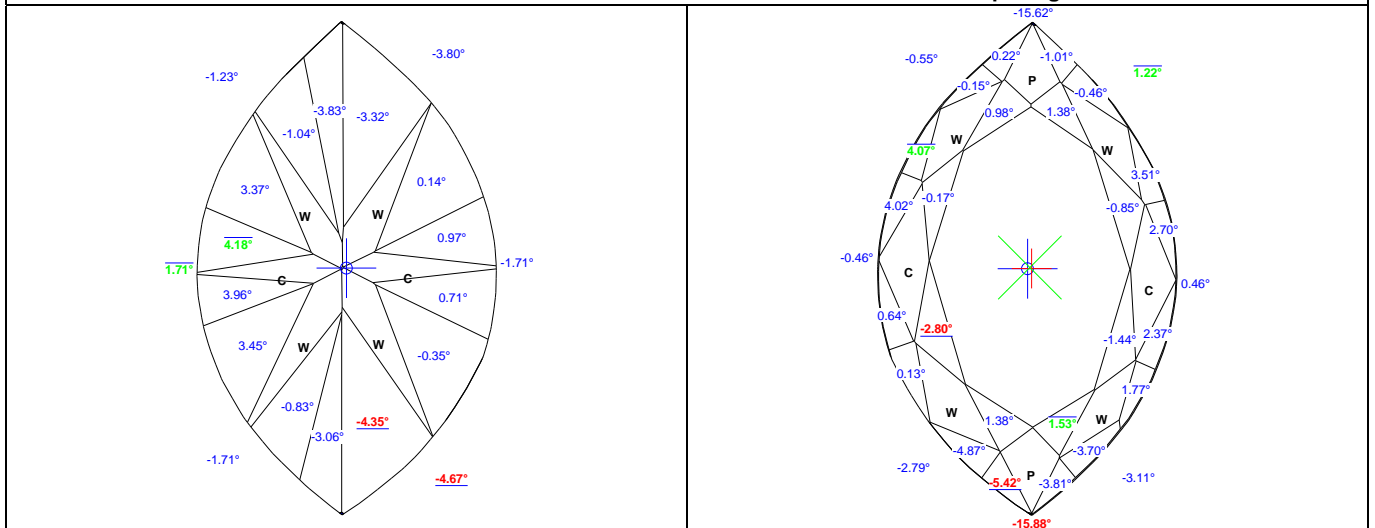
Facets' azimuth and slope angles



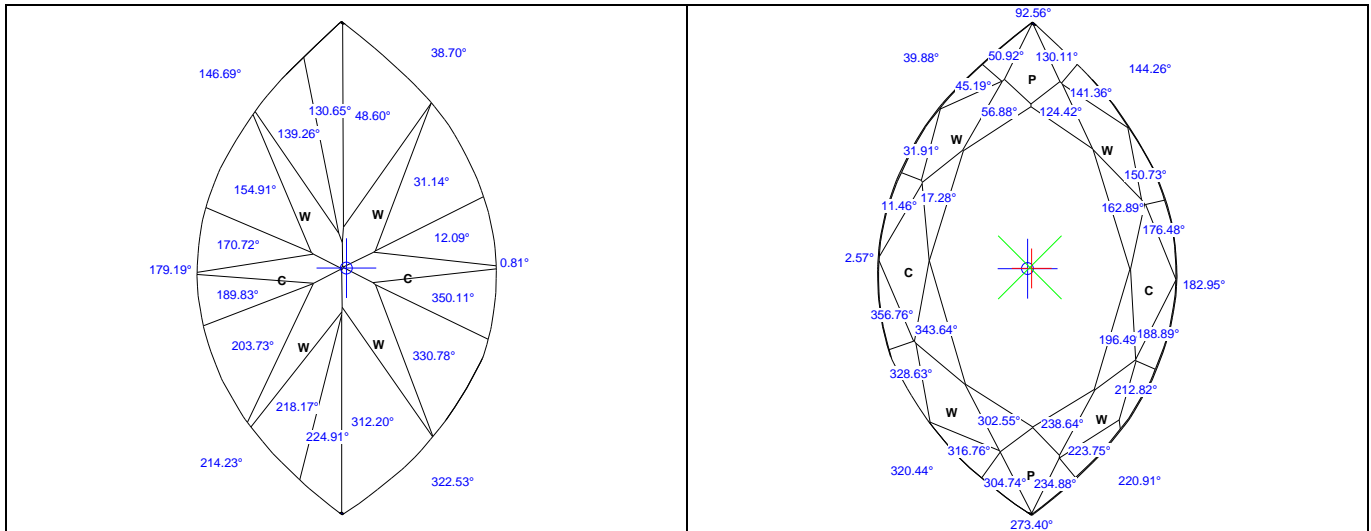
Pavilion and crown views of the diamond with indication of main facets' slope angles
 Invisible edges are drawn taking refraction into account



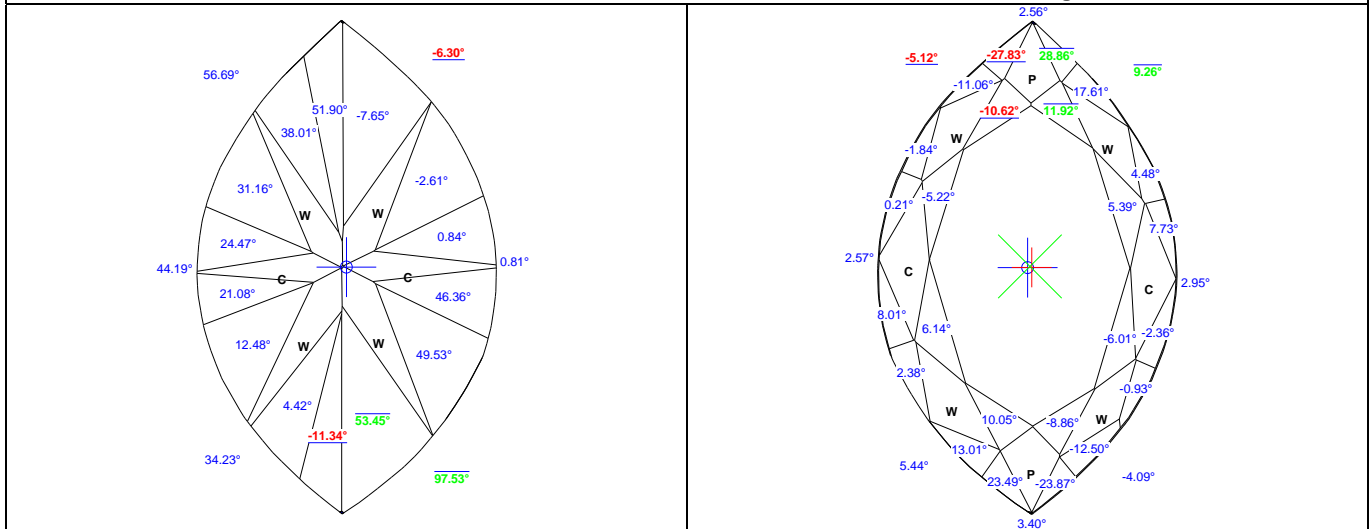
Pavilion and crown views of the diamond with indication of facets' slope angles



Pavilion and crown views of the diamond with indication of deviation of facets' slope angles from the average values

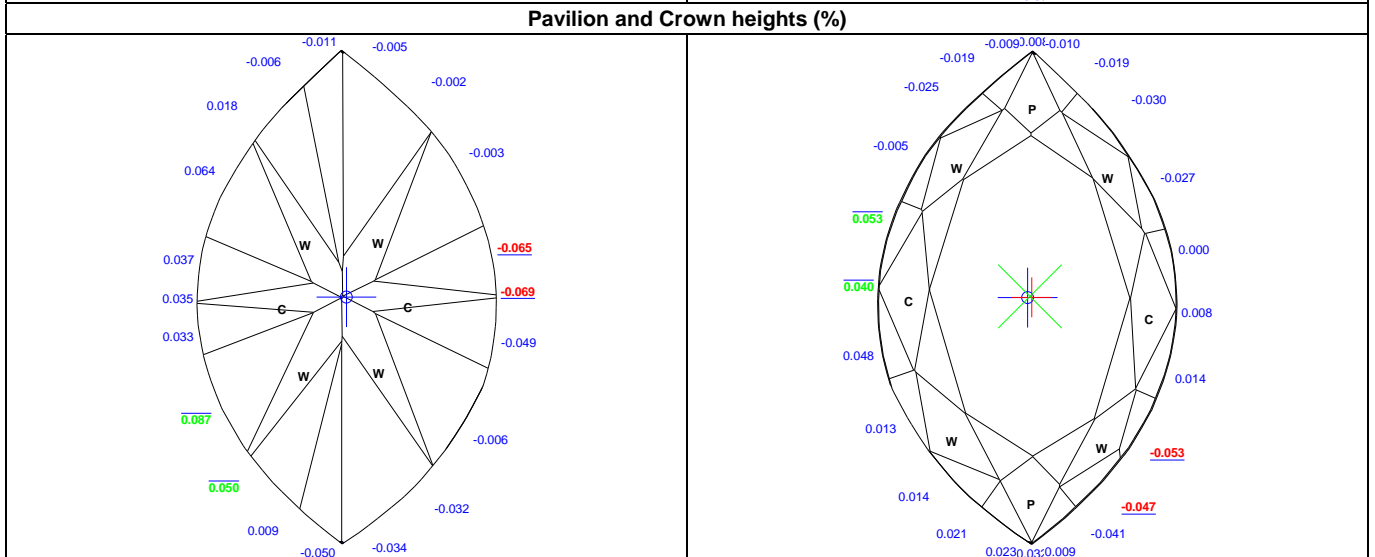
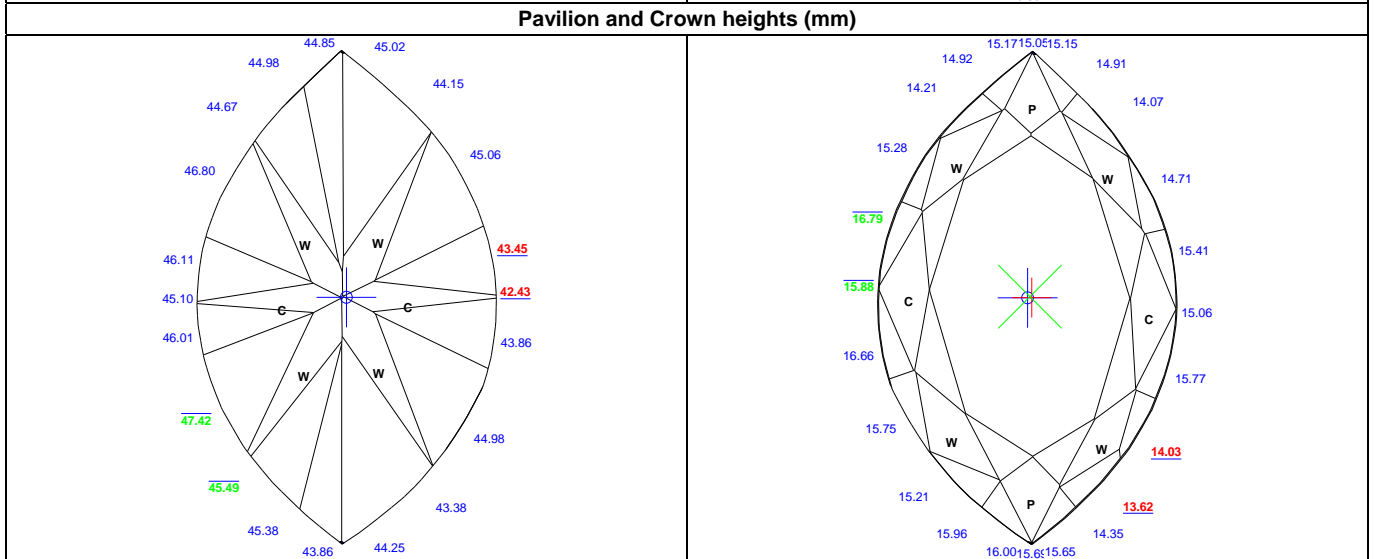
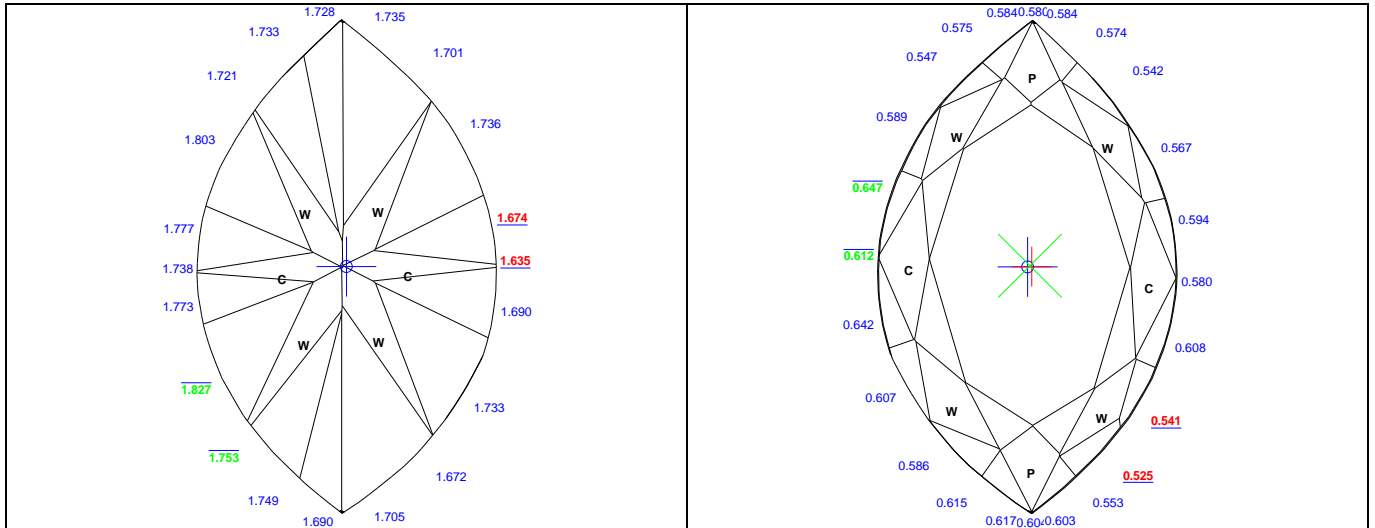


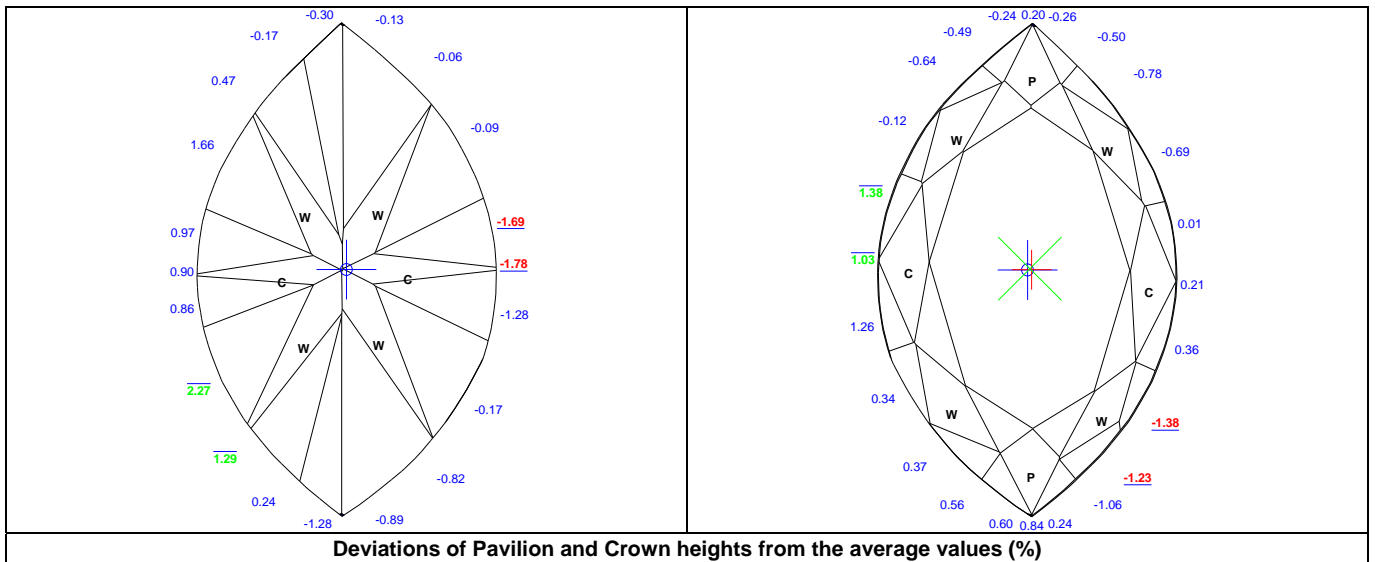
Pavilion and crown views of the diamond with indication of facets' azimuth angles



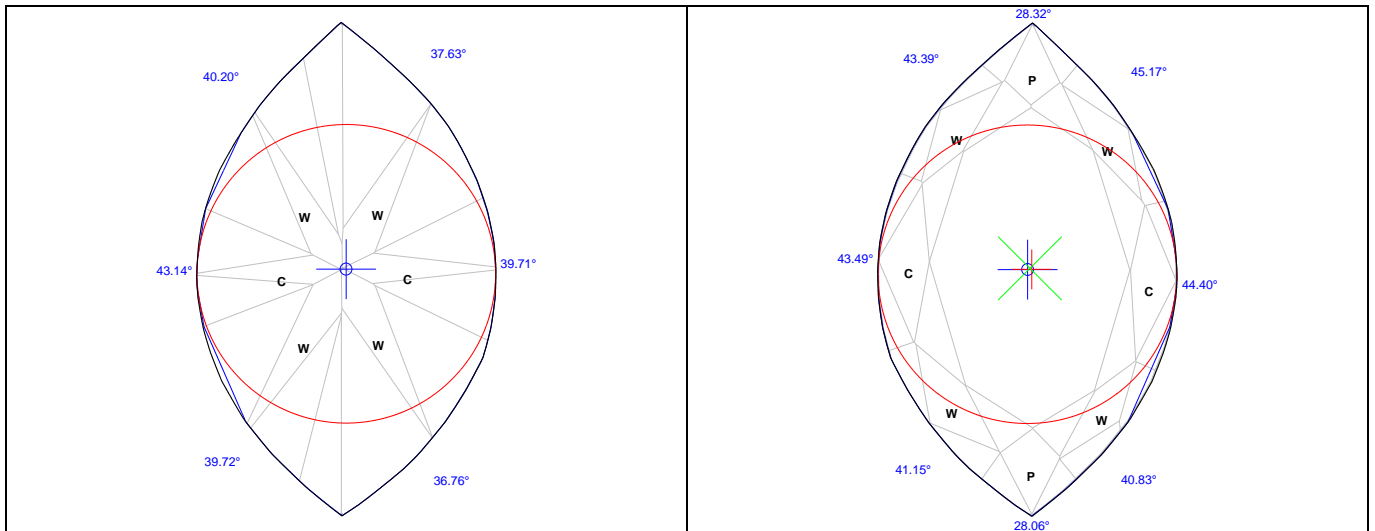
Pavilion and crown views of the diamond with indication of deviation of facets' azimuth angles from their ideal positions for the round brilliant

Pavilion and Crown heights

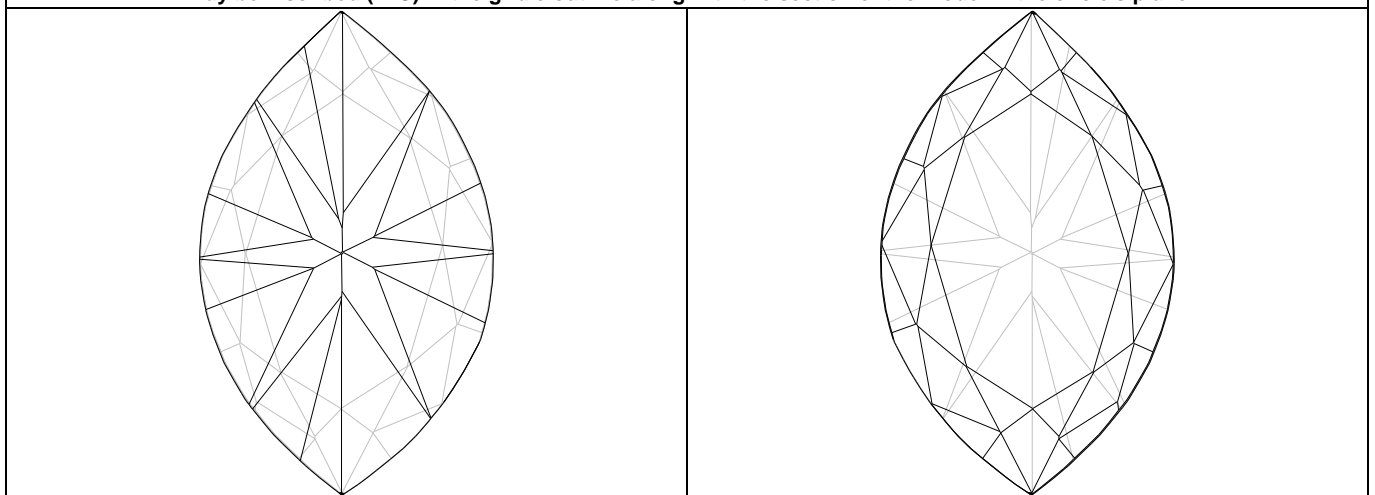




Additional illustrations



Pavilion and crown views of the diamond with indication of the maximum circle that may be inscribed (MIC) in the girdle outline along with the section of the model in the circle's plane



Pavilion and crown views of the diamond with indication of invisible edges without refraction

	Girdle center		Culet center		Table center
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