

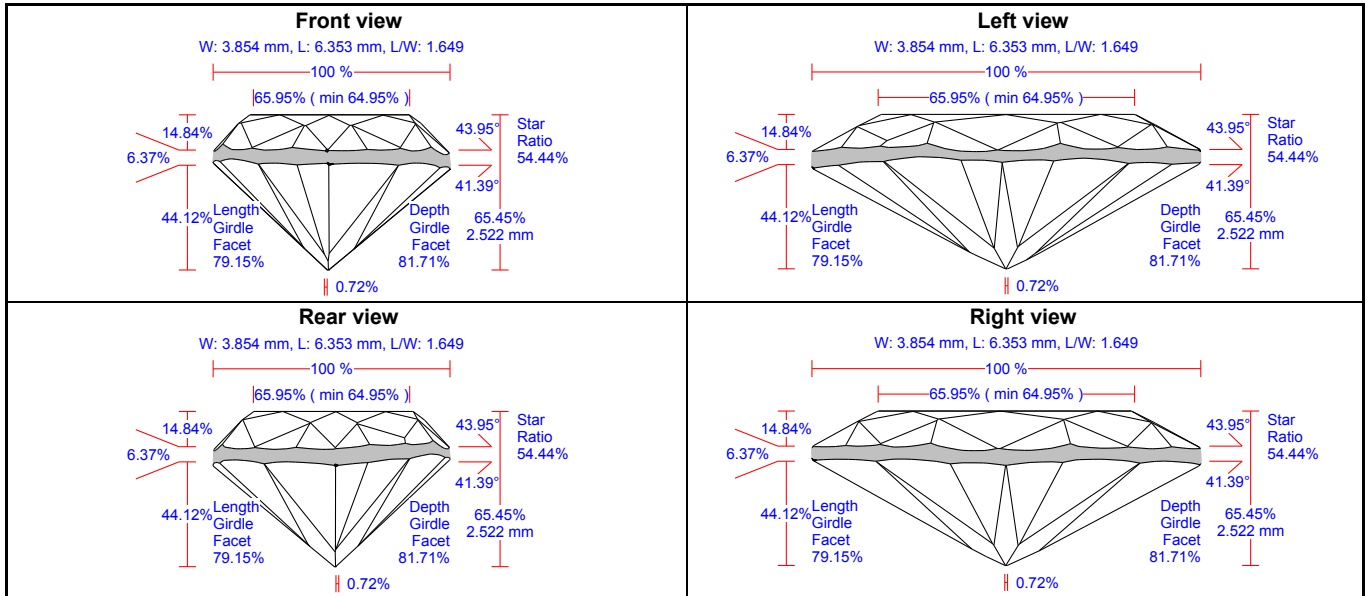
Full Report for Rounded Fancies

Marquise

General information

Model	Simple	Extra Facet Girdle / Nat	Yes (4)
Expert name	N/A	Extra Facet Crown	No
Report date	04.09.2011	Extra Facet Pavilion	No
Real weight, ct		Appraiser title	N/A
Calculated weight, ct	0.36, 0.3653	Overall cut quality	N/A
Spread	-0.00 ct, -0.30%	Symmetry appraiser title	Symmetry
		Overall symmetry quality	N/A

Main views



Main parameters

Width	Length	Ratio (L/W)	Girdle Ratio	Diameter Minimum	Diameter Maximum	Total height	MIC
3.854 mm	6.353 mm	1.649	1.649	3.854 mm	6.353 mm	2.522 mm	3.846 mm

Parameter		Avg	Min	Max	Dev	Cut	Sym
Diameter	mm		3.854	6.353	2.500	N/A	
Radius	mm	2.282	1.925	3.262	1.337		
Radius	%	59.21	49.95	84.65	34.70		
Crown curve angle	°	43.95	43.47	44.42	0.95		
Crown head angle	°	N/A	N/A	N/A	N/A		
Crown point angle	°	28.17	28.05	28.30	0.25		
Crown wing angle	°	42.61	40.84	45.20	4.36		
Crown curve height	%	15.42	14.98	15.87	0.89		
Crown curve height	mm	0.594	0.577	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	%	14.79	14.40	15.18	0.78		
Crown point height	mm	0.570	0.555	0.585	0.030		
Crown wing height	%	13.35	11.02	14.95	3.92		
Crown wing height	mm	0.515	0.425	0.576	0.151		
Crown height	%	14.84	13.59	15.88	2.28		
Crown height	mm	0.572	0.524	0.612	0.088	N/A	N/A
Crown height bone	%	13.70	12.25	15.17	2.92		
Crown height bone	mm	0.528	0.472	0.584	0.112		
Crown height valley	%	15.41	14.01	16.79	2.78		
Crown height valley	mm	0.594	0.540	0.647	0.107	N/A	

Parameter		Avg	Min	Max	Dev	Cut	Sym
Pavilion curve angle	°	41.39	39.66	43.11	3.45		
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	°	38.56	36.73	40.21	3.48		
Pavilion curve height	%	43.65	42.44	44.87	2.43		
Pavilion curve height	mm	1.682	1.635	1.729	0.094		
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	%	44.35	43.39	45.50	2.12		
Pavilion wing height	mm	1.709	1.672	1.754	0.082		
Pavilion height	%	44.12	42.44	45.55	3.11		
Pavilion height	mm	1.700	1.636	1.756	0.120		
Pavilion height bezel	%	44.24	42.44	45.55	3.11	N/A	N/A
Pavilion height bezel	mm	1.705	1.636	1.756	0.120		
Pavilion height upper bone	%	44.67	43.09	47.43	4.34		
Pavilion height upper bone	mm	1.721	1.661	1.828	0.167		
Pavilion height bone	%	44.30	42.69	46.04	3.35		
Pavilion height bone	mm	1.707	1.645	1.774	0.129		
Pavilion height valley	%	44.96	43.52	46.90	3.38	N/A	N/A
Pavilion height valley	mm	1.733	1.677	1.807	0.130		
Pavilion height valley type 2	%	45.22	43.52	47.52	3.99	N/A	N/A
Pavilion height valley type 2	mm	1.743	1.677	1.831	0.154		
Upper girdle facets angle	°	49.74	44.26	53.82	9.56		N/A
Upper girdle facets height	%	11.25	9.18	13.44	4.26		
Upper girdle facets height	mm	0.433	0.354	0.518	0.164		
Star facets angle	°	18.78	15.99	20.26	4.27		N/A
Star : Upper ratio	%	54.44 : 45.56	50.94 : 49.06	61.01 : 38.99	10.07		N/A
Lower girdle facets angle	°	40.03	35.64	44.21	8.57		N/A
Lower girdle facets height	%	37.40	34.98	41.20	6.22		N/A
Lower girdle facets height	mm	1.441	1.348	1.588	0.240		
Depth Girdle Facet	%	81.71	78.40	91.36	12.96	N/A	
Length Girdle Facet	%	79.15	76.47	90.01	13.53		
Total height	%	65.45				N/A	
Table	%	65.95	64.95	66.94	1.99	N/A	N/A
Table	mm	3.353	2.580	4.127	1.547		
Culet	%	0.72	0.29	1.01	0.72	N/A	N/A
Culet	mm	0.028	0.011	0.039	0.028		
Twist	°	3.03	1.19	6.58	5.40		N/A
Girdle height bezel	%	6.37	5.24	7.14	1.90	N/A	N/A
Girdle height bezel	mm	0.246	0.202	0.275	0.073		
Girdle height bone	%	6.92	5.78	7.88	2.10		N/A
Girdle height bone	mm	0.267	0.223	0.304	0.081		
Girdle height valley	%	5.25	3.61	6.94	3.33	N/A	N/A
Girdle height valley	mm	0.202	0.139	0.267	0.128		
Girdle height valley type 2	%	5.06	3.61	6.94	3.33	N/A	N/A
Girdle height valley type 2	mm	0.195	0.139	0.267	0.128		
Girdle height (Crown Mains)	%	6.20	4.98	7.03	2.05		
Girdle height (Crown Mains)	mm	0.239	0.192	0.271	0.079		
Girdle height (Pavilion Mains)	%	6.24	5.02	6.89	1.87		
Girdle height (Pavilion Mains)	mm	0.240	0.193	0.265	0.072		
Girdle height (Upper girdle facets)	%	5.28	3.62	7.03	3.41		
Girdle height (Upper girdle facets)	mm	0.203	0.139	0.271	0.131		
Girdle height (Lower girdle facets)	%	5.23	3.61	7.46	3.85		
Girdle height (Lower girdle facets)	mm	0.202	0.139	0.287	0.148		

Table of Correspondence of New Parameters and Obsolete Parameters (from Old Full Report Rounded Fancies)

Obsolete parameter	New parameter		Avg	Min	Max	Dev
Pavilion depth	Pavilion height bezel	%	44.24	42.44	45.55	3.11
Pavilion depth	Pavilion height bezel	mm	1.705	1.636	1.756	0.120

Table of Obsolete Parameters (from Old Full Report for Rounded Fancies)

Obsolete parameter		Avg	Min	Max	Dev
<i>Crown height at girdle minima</i>	%	15.41	14.01	16.79	2.78
<i>Crown height at girdle minima</i>	mm	0.594	0.540	0.647	0.107
<i>Pavilion depth bone</i>	%	44.30	42.69	46.04	3.35
<i>Pavilion depth bone</i>	mm	1.707	1.645	1.774	0.129
<i>Pavilion depth at girdle minima</i>	%	45.22	43.52	47.52	3.99
<i>Pavilion depth at girdle minima</i>	mm	1.743	1.677	1.831	0.154
<i>Crown mains angle</i>	°	43.95	43.47	44.42	0.95
<i>Crown nock angle</i>	°	28.17	28.05	28.30	0.25
<i>Crown other angle</i>	°	42.61	40.84	45.20	4.36
<i>Pavilion mains angle</i>	°	41.39	39.66	43.11	3.45
<i>Pavilion nock angle</i>	°	N/A	N/A	N/A	N/A
<i>Pavilion other angle</i>	°	38.56	36.73	40.21	3.48

Detailed parameters

Parameter		1	2	3	4	5	6	7	8
Crown curve angle	°	43.47	44.42						
Crown head angle	°	N/A	N/A	N/A					
Crown point angle	°	28.30	28.05						
Crown wing angle	°	43.42	45.20	40.84	40.97				
Crown curve azimuth	°	2.50	182.88						
Crown head azimuth	°	N/A	N/A	N/A					
Crown point azimuth	°	92.49	273.31						
Crown wing azimuth	°	39.77	144.23	220.84	320.35				
Crown curve height	%	15.87	14.98						
Crown curve height	mm	0.612	0.577						
Crown head height	%	N/A	N/A	N/A					
Crown head height	mm	N/A	N/A	N/A					
Crown point height	%	14.40	15.18						
Crown point height	mm	0.555	0.585						
Crown wing height	%	13.65	13.80	11.02	14.95				
Crown wing height	mm	0.526	0.532	0.425	0.576				
Crown height	%	15.88	14.18	15.03	14.06	15.05	13.59	15.74	15.22
Crown height	mm	0.612	0.547	0.579	0.542	0.580	0.524	0.607	0.586
Crown height bone	%	13.60	14.63	13.77	12.32	12.25	13.95	15.17	13.89
Crown height bone	mm	0.524	0.564	0.531	0.475	0.472	0.538	0.584	0.535
Crown height valley	%	16.79	15.28	14.90	15.16	15.15	14.89	14.71	15.40
		15.76	14.01	14.34	15.74	15.98	15.99	15.75	16.66
Crown height valley	mm	0.647	0.589	0.574	0.584	0.584	0.574	0.567	0.594
		0.607	0.540	0.553	0.607	0.616	0.616	0.607	0.642
Pavilion curve angle	°	39.66	43.11	N/A	N/A				
Pavilion head angle	°	N/A	N/A	N/A					
Pavilion point angle	°	N/A	N/A						
Pavilion wing angle	°	37.60	40.21	39.67	36.73				
Pavilion curve azimuth	°	0.62	179.15	N/A	N/A				
Pavilion head azimuth	°	N/A	N/A	N/A					
Pavilion point azimuth	°	N/A	N/A						
Pavilion wing azimuth	°	38.58	146.81	214.25	322.57				
Pavilion curve height	%	42.44	44.87	N/A	N/A				
Pavilion curve height	mm	1.635	1.729	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	%	43.83	44.69	45.50	43.39				
Pavilion wing height	mm	1.689	1.722	1.754	1.672				
Pavilion height	%	42.44	44.19	44.82	44.69	45.17	45.55	42.69	43.39
Pavilion height	mm	1.636	1.703	1.727	1.722	1.741	1.756	1.645	1.672
Pavilion height bezel	%	42.44	44.19	44.69	45.17	45.55	43.39	N/A	N/A
Pavilion height bezel	mm	1.636	1.703	1.722	1.741	1.756	1.672	N/A	N/A
Pavilion height upper bone	%	43.09	45.01	44.34	45.78	47.43	43.93	44.09	43.68
Pavilion height upper bone	mm	1.661	1.734	1.709	1.764	1.828	1.693	1.699	1.683
Pavilion height bone	%	43.09	44.82	44.34	45.78	46.04	43.93	42.69	43.68
Pavilion height bone	mm	1.661	1.727	1.709	1.764	1.774	1.693	1.645	1.683
Pavilion height valley	%	43.52	45.11	44.89	45.05	44.95	45.07	46.90	46.19
		46.09	45.49	45.26	43.93	43.65	44.24	45.04	43.94
Pavilion height valley	mm	1.677	1.738	1.730	1.736	1.732	1.737	1.807	1.780
		1.776	1.753	1.744	1.693	1.682	1.705	1.736	1.693
Pavilion height valley type 2	%	43.52	45.11	45.05	44.95	45.07	46.90	46.19	46.09
		47.52	45.49	43.93	44.24	45.04	43.94	N/A	N/A
Pavilion height valley type 2	mm	1.677	1.738	1.736	1.732	1.737	1.807	1.780	1.776
		1.831	1.753	1.693	1.705	1.736	1.693	N/A	N/A
Upper girdle facets angle	°	53.81	53.82	49.58	49.97	48.72	49.28	53.25	52.41
		52.09	51.51	46.10	45.87	44.26	44.90	49.87	50.38
Upper girdle facets height	%	13.44	11.33	10.49	10.73	10.64	10.52	11.30	11.59
		12.53	10.41	9.18	10.51	11.18	11.02	12.25	12.88
Upper girdle facets height	mm	0.518	0.436	0.404	0.414	0.410	0.405	0.435	0.447
		0.483	0.401	0.354	0.405	0.431	0.425	0.472	0.496
Upper girdle facets azimuth	°	11.4	31.8	45.1	50.8	130.0	141.3	150.7	176.4
		188.8	212.7	223.7	234.9	304.6	316.7	328.6	356.7

Parameter		1	2	3	4	5	6	7	8
Star facets angle	°	18.62	19.78	20.11	17.93	17.39	20.26	20.15	15.99
Star : Upper ratio	%	53.37 : 46.63	53.36 : 46.64	52.40 : 47.60	61.01 : 38.99	55.92 : 44.08	51.02 : 48.98	50.94 : 49.06	57.51 : 42.49
Star facets azimuth	°	17.2	56.6	124.2	162.8	196.3	238.6	302.4	343.5
Lower girdle facets angle	°	40.98	40.16	36.71	36.25	39.02	43.41	44.21	44.00
		43.49	39.22	36.93	35.64	39.65	40.74	N/A	N/A
Lower girdle facets height	%	34.98	35.89	38.08	41.20	38.38	37.26	37.19	37.41
		38.69	38.19	36.88	38.08	35.86	35.53	N/A	N/A
Lower girdle facets height	mm	1.348	1.383	1.467	1.588	1.479	1.436	1.433	1.442
		1.491	1.472	1.421	1.467	1.382	1.369	N/A	N/A
Lower girdle facets azimuth	°	12.0	31.0	48.5	130.7	139.2	154.9	170.7	189.8
		203.7	218.2	225.0	312.1	330.7	350.0	N/A	N/A
Depth Girdle Facet	%	79.95	78.40	84.14	91.36	N/A	78.72	80.14	80.95
		80.62	83.18	83.81	N/A	78.77	80.53	N/A	N/A
Length Girdle Facet	%	78.09	76.47	82.47	90.01	N/A	76.61	78.11	78.03
		77.69	78.20	78.74	N/A	76.76	78.61	N/A	N/A
Table	%	66.94		64.95					
Table	mm	2.580		4.127					
Twist	°	1.88	1.19	2.58	3.73	6.58	2.22	N/A	N/A
Girdle height bezel	%	7.14	7.08	5.60	6.23	5.24	6.31	7.03	6.39
Girdle height bezel	mm	0.275	0.273	0.216	0.240	0.202	0.243	0.271	0.246
Girdle height bone	%	7.45	5.82	7.34	7.35	5.78	7.57	6.20	7.88
Girdle height bone	mm	0.287	0.224	0.283	0.283	0.223	0.292	0.239	0.304
Girdle height valley	%	5.15	5.09	5.66	5.37	5.35	5.57	3.92	4.06
		3.61	6.23	5.87	6.94	5.99	5.39	4.68	5.12
Girdle height valley	mm	0.199	0.196	0.218	0.207	0.206	0.215	0.151	0.156
		0.139	0.240	0.226	0.267	0.231	0.208	0.180	0.197
Girdle height valley type 2	%	5.15	5.09	5.37	5.35	5.57	3.92	4.06	3.61
		4.70	5.87	6.94	5.39	4.68	5.12	N/A	N/A
Girdle height valley type 2	mm	0.199	0.196	0.207	0.206	0.215	0.151	0.156	0.139
		0.181	0.226	0.267	0.208	0.180	0.197	N/A	N/A
Girdle height (Crown Mains)	%	6.82	6.87	5.60	5.96	4.98	6.39	7.03	5.97
Girdle height (Crown Mains)	mm	0.263	0.265	0.216	0.230	0.192	0.246	0.271	0.230
Girdle height (Pavilion Mains)	%	6.80	6.89	6.23	5.02	6.10	6.39	N/A	N/A
Girdle height (Pavilion Mains)	mm	0.262	0.265	0.240	0.193	0.235	0.246	N/A	N/A
Girdle height (Upper girdle facets)	%	5.15	5.09	5.66	5.45	5.60	5.57	4.09	4.10
		3.62	5.54	5.90	7.03	6.07	5.48	4.78	5.36
Girdle height (Upper girdle facets)	mm	0.199	0.196	0.218	0.210	0.216	0.215	0.158	0.158
		0.139	0.214	0.227	0.271	0.234	0.211	0.184	0.206
Girdle height (Lower girdle facets)	%	5.24	5.14	5.46	5.42	5.65	3.92	4.45	3.61
		4.75	6.23	7.46	5.49	4.69	5.74	N/A	N/A
Girdle height (Lower girdle facets)	mm	0.202	0.198	0.210	0.209	0.218	0.151	0.171	0.139
		0.183	0.240	0.287	0.211	0.181	0.221	N/A	N/A

Table of Correspondence of New Parameters and Obsolete Parameters (from Old Full Report for Rounded Fancies)

Obsolete parameter	New parameter		1	2	3	4	5	6	7	8
Pavilion depth	Pavilion height bezel	%	42.44	44.19	44.69	45.17	45.55	43.39	N/A	N/A
Pavilion depth	Pavilion height bezel	mm	1.636	1.703	1.722	1.741	1.756	1.672	N/A	N/A

Table Correspondence of New Parameters and Obsolete Parameters (from Old Full Report for Semi-Polished Rounded Fancies)

Obsolete parameter	New parameter		1	2	3	4	5	6	7	8
Crown height (Mains)	Crown height	%	15.87	14.18	15.03	14.06	15.04	13.59	15.74	15.22
Crown height (Mains)	Crown height	mm	0.612	0.547	0.579	0.542	0.580	0.524	0.607	0.586
Pavilion depth (Mains)	Pavilion height bezel	%	42.44	44.19	44.69	45.17	45.55	43.39	N/A	N/A
Pavilion depth (Mains)	Pavilion height bezel	mm	1.635	1.703	1.722	1.741	1.756	1.672	N/A	N/A

Table of Obsolete Parameters (from Old Full Report for Rounded Fancies)

Obsolete parameter		1	2	3	4	5	6	7	8
Crown height at girdle minima	%	16.79	15.28	14.90	15.16	15.15	14.89	14.71	15.40
		15.76	14.01	14.34	15.74	15.98	15.99	15.75	16.66
Crown height at girdle minima	mm	0.647	0.589	0.574	0.584	0.584	0.574	0.567	0.594
		0.607	0.540	0.553	0.607	0.616	0.616	0.607	0.642
Pavilion depth bone	%	43.09	44.82	44.34	45.78	46.04	43.93	42.69	43.68
Pavilion depth bone	mm	1.661	1.727	1.709	1.764	1.774	1.693	1.645	1.683
Pavilion depth at girdle minima	%	43.52	45.11	45.05	44.95	45.07	46.90	46.19	46.09
		47.52	45.49	43.93	44.24	45.04	43.94	N/A	N/A
Pavilion depth at girdle minima	mm	1.677	1.738	1.736	1.732	1.737	1.807	1.780	1.776
		1.831	1.753	1.693	1.705	1.736	1.693	N/A	N/A
Crown mains angle	°	43.47	44.42						
Crown nock angle	°	28.30	28.05						
Crown other angle	°	43.42	45.20	40.84	40.97	N/A	N/A	N/A	N/A
Crown mains azimuth	°	2.5	182.9						
Crown nock azimuth	°	92.5	273.3						
Crown other azimuth	°	39.8	144.2	220.8	320.3	N/A	N/A	N/A	N/A
Pavilion mains angle	°	39.66	43.11						
Pavilion nock angle	°	N/A	N/A						
Pavilion other angle	°	37.60	40.21	39.67	36.73	N/A	N/A	N/A	N/A
Pavilion mains azimuth	°	0.6	179.2						
Pavilion nock azimuth	°	N/A	N/A						
Pavilion other azimuth	°	38.6	146.8	214.3	322.6	N/A	N/A	N/A	N/A

Table of Obsolete Parameters (from Old Full Report for Semi-Polished Rounded Fancies)

Obsolete parameter		1	2	3	4	5	6	7	8
Crown height (Upper girdle facets)	%	16.79	15.28	14.90	15.16	15.03	14.89	14.71	15.40
		15.76	14.01	14.34	15.74	15.98	15.99	15.75	16.66
Crown height (Upper girdle facets)	mm	0.647	0.589	0.574	0.584	0.579	0.574	0.567	0.594
		0.607	0.540	0.553	0.607	0.616	0.616	0.607	0.642
Pavilion depth (Lower girdle facets)	%	43.52	45.11	45.05	44.94	45.07	46.90	46.18	46.09
		47.51	45.49	43.93	44.24	45.04	43.94	N/A	N/A
Pavilion depth (Lower girdle facets)	mm	1.677	1.738	1.736	1.732	1.737	1.807	1.780	1.776
		1.831	1.753	1.693	1.705	1.736	1.693	N/A	N/A

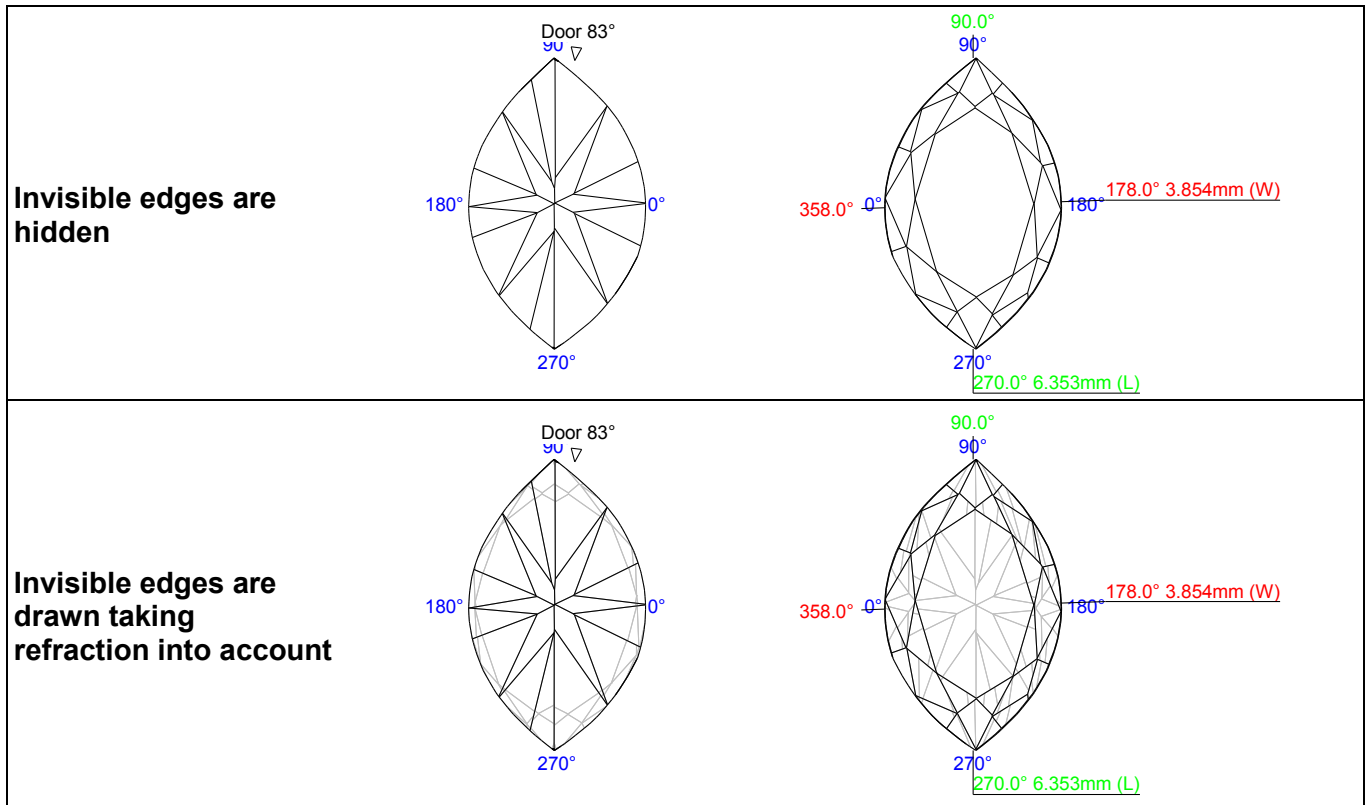
Offset		Distance	Width wise	Length wise
Culet-Table offset by table axis	%	0.70 ± 0.33	0.61	0.35
Culet-Table offset by table axis	mm	0.027 ± 0.013	0.024	0.013
Girdle-Culet offset by table axis	%	1.40 ± 0.32	1.40	0.08
Girdle-Culet offset by table axis	mm	0.054 ± 0.012	0.054	0.003
Girdle-Table offset by table axis	%	0.89 ± 0.29	0.78	0.42
Girdle-Table offset by table axis	mm	0.034 ± 0.011	0.030	0.016
Girdle to table-culet line offset	%	1.01		
Girdle to table-culet line offset	mm	0.039		

Culet shift ratio by width & length	
Width	3.854 mm, 100%
Width-wise culet shift ratio	1.870 mm, 48.53 %
Length-wise culet shift ratio	3.180 mm, 82.51 %
Length	6.353 mm, 100%
Length-wise culet shift ratio	3.180 mm, 50.05 %
	3.174 mm, 49.95 %

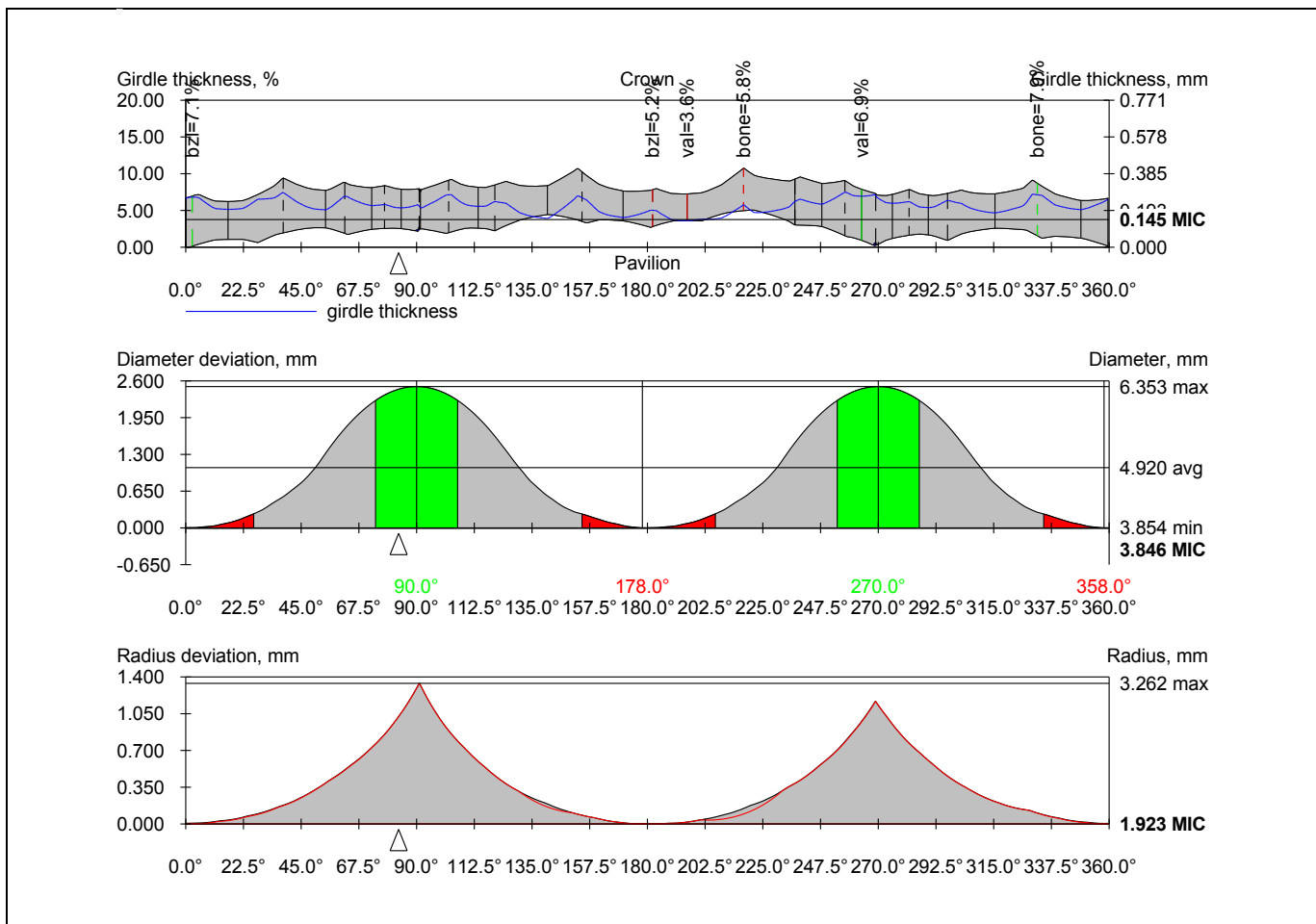
Table by width & length	
Width	3.854 mm, 100%
Table by width	2.580 mm, 66.94 %
Length	6.353 mm, 100%
Table by length	4.127 mm, 64.95 %

Model building info		1	2	3	4	5	6	7	8
The model is built badly									
Girdle deviation / error	mkm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inner linear deviation / error	mkm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Average deviation / error	mkm	7.7	6.4	6.4	3.6	2.9	2.8	2.4	2.4
		big	medium	medium	medium	small	small	small	small

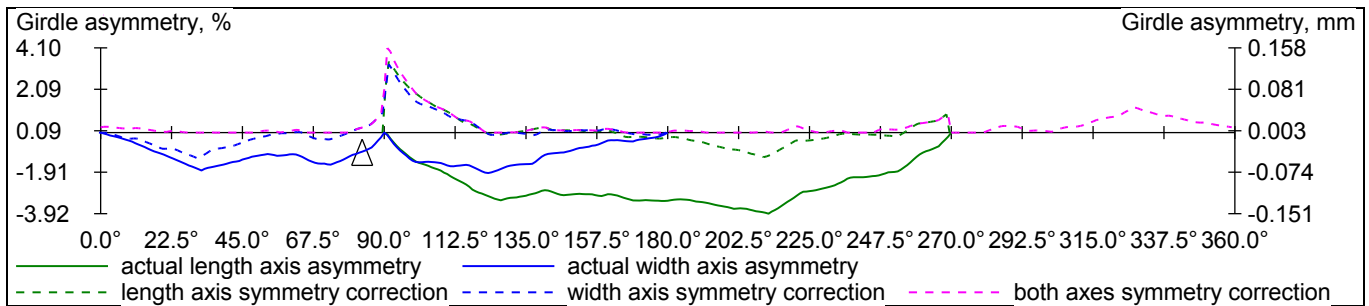
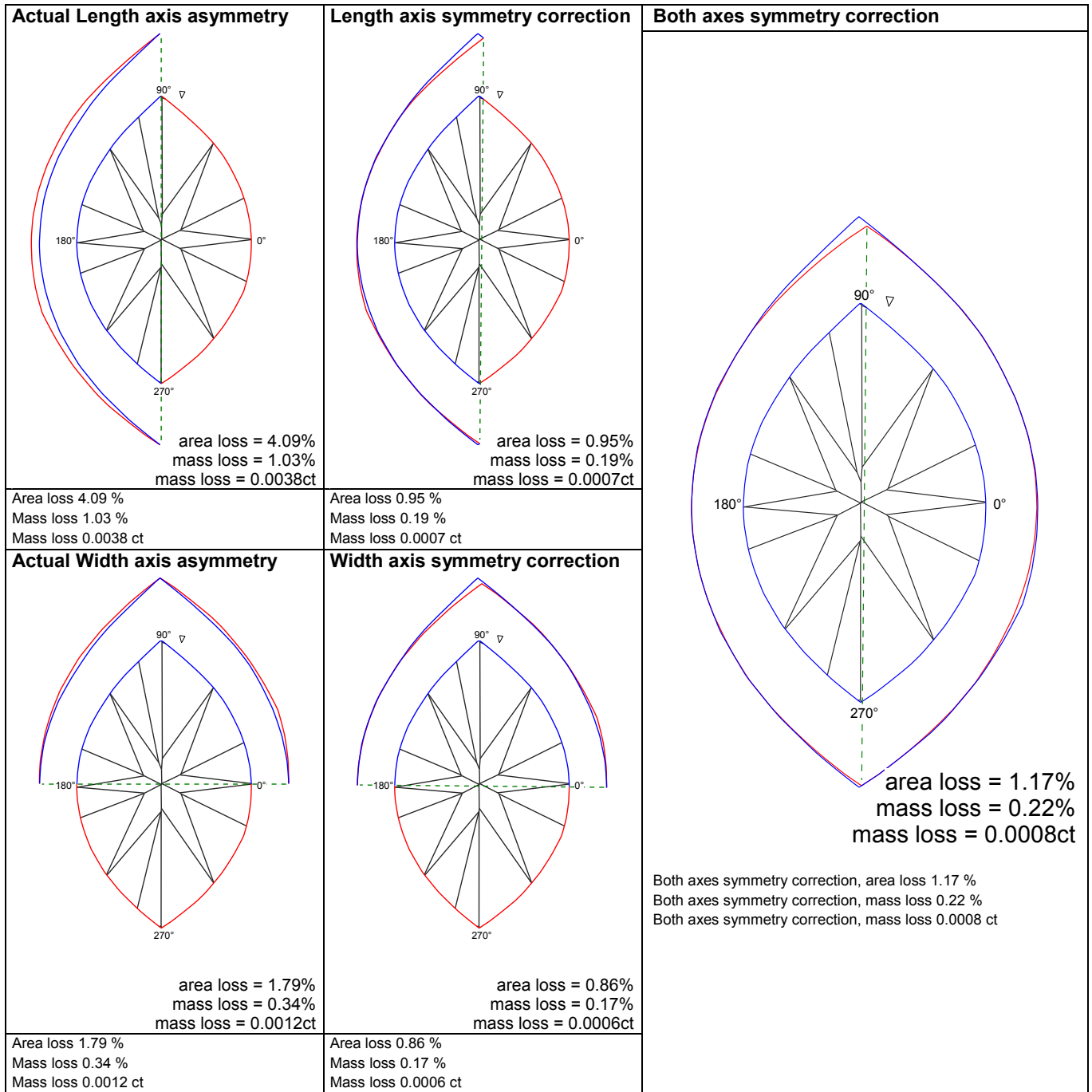
Crown and pavilion views with indication of Width & Length



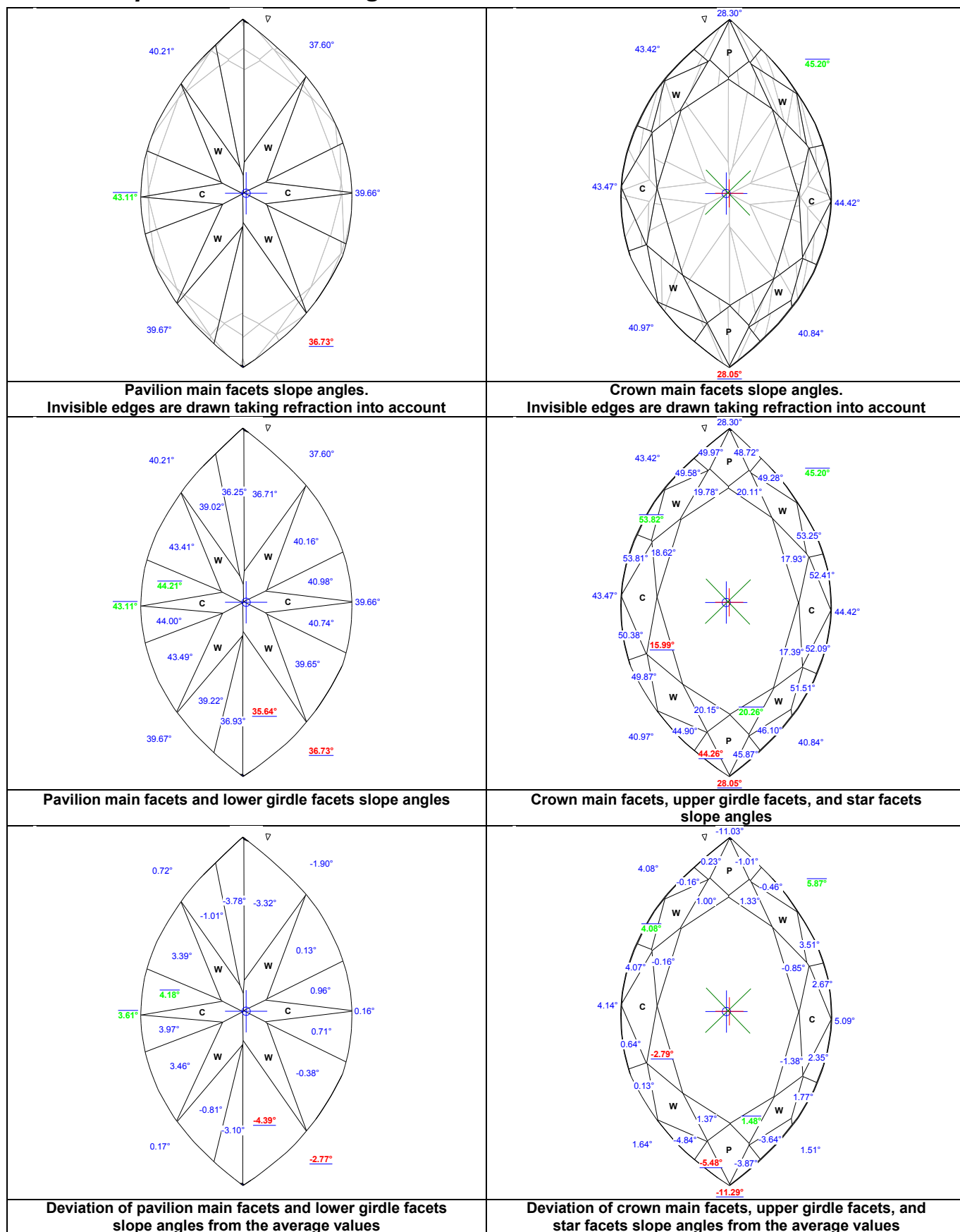
Plots

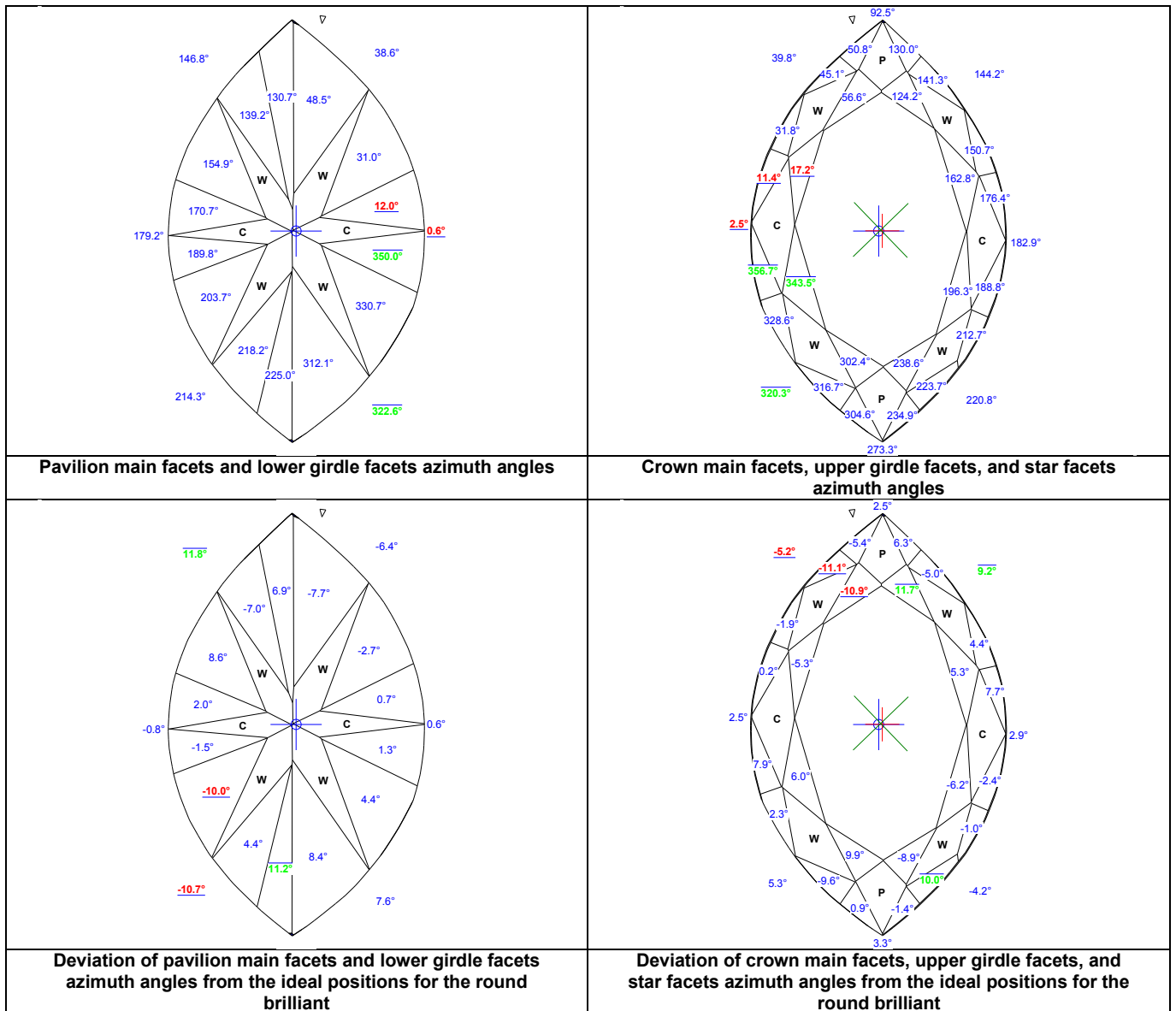


Girdle asymmetry

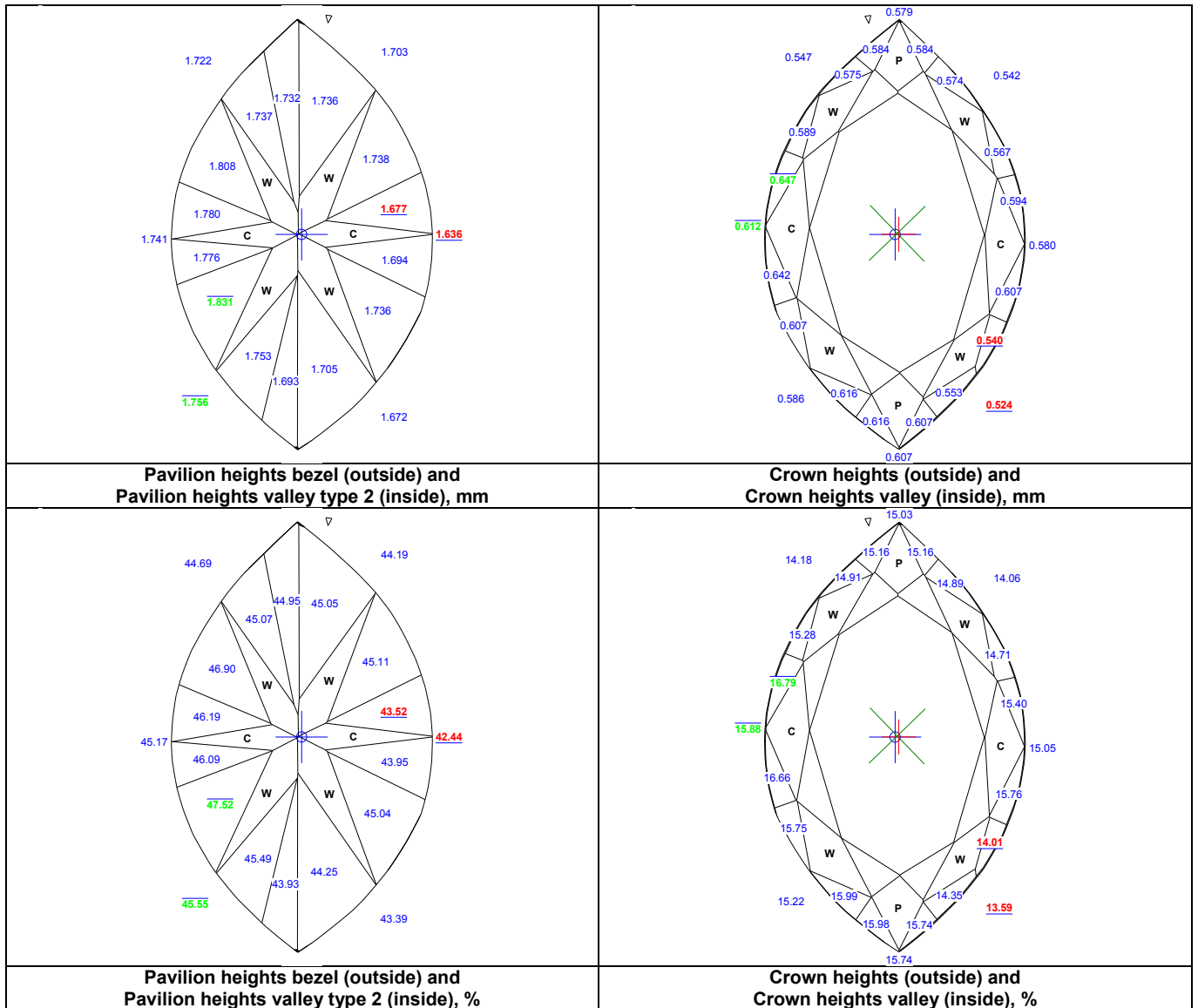


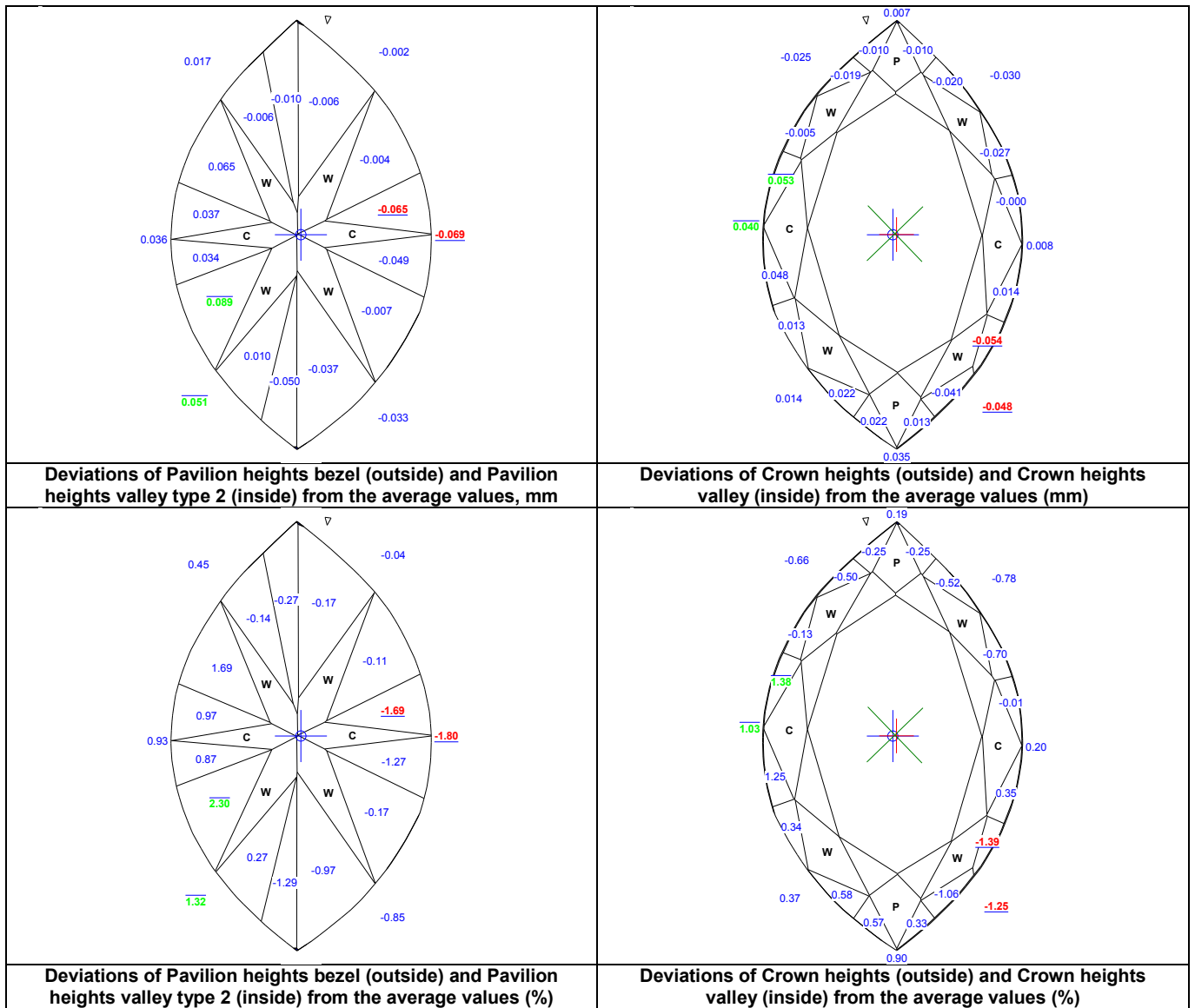
Facets slope and azimuth angles



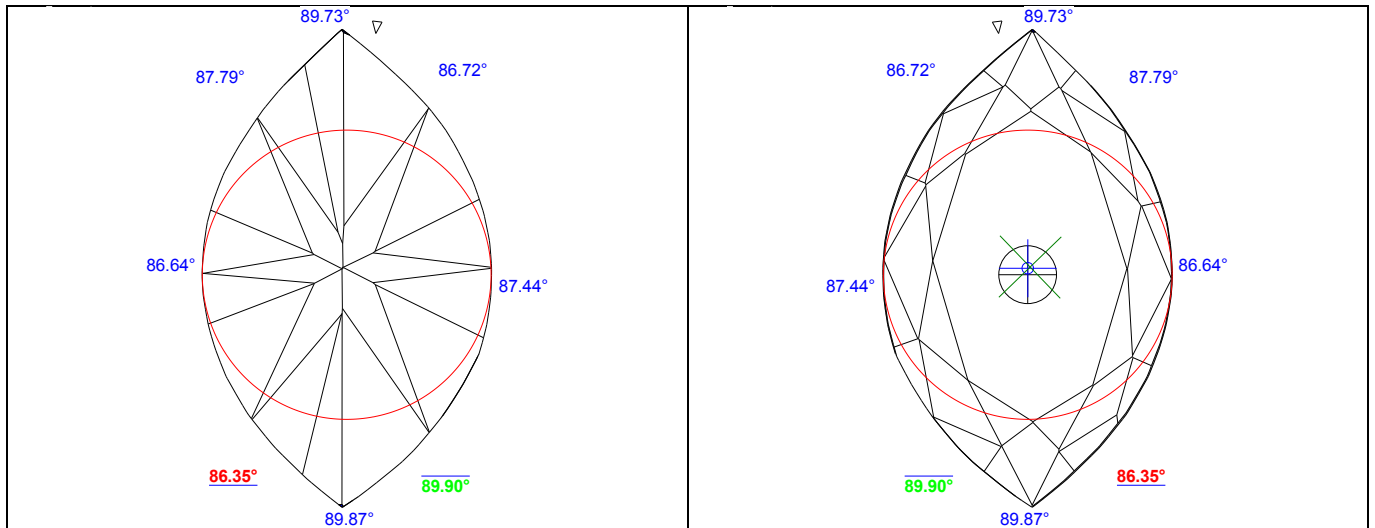


Crown and Pavilion heights

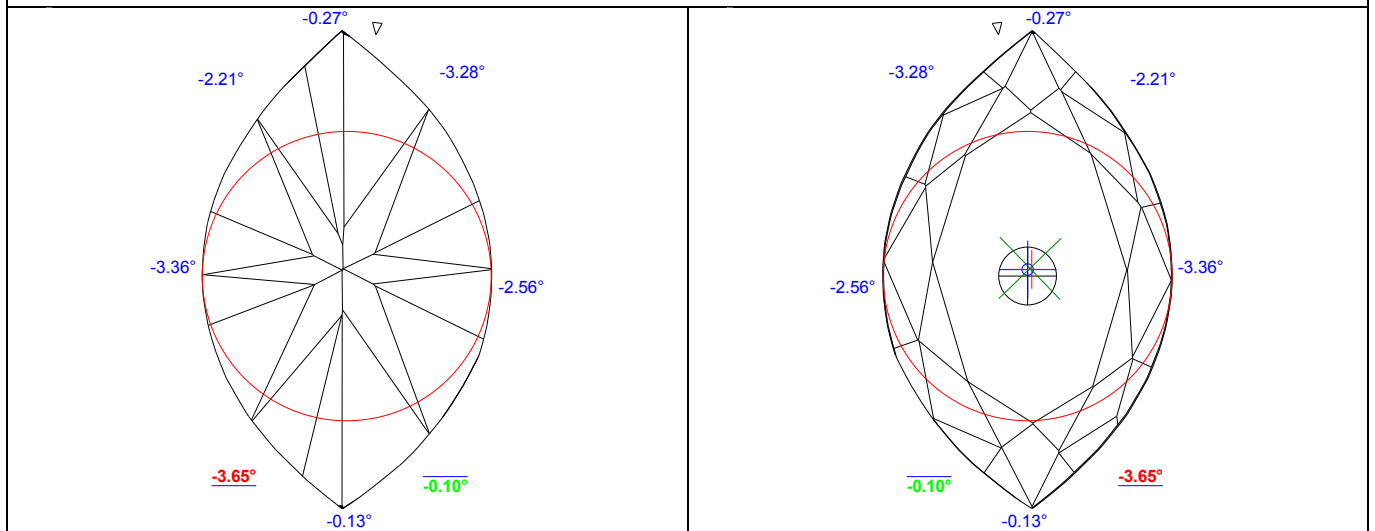




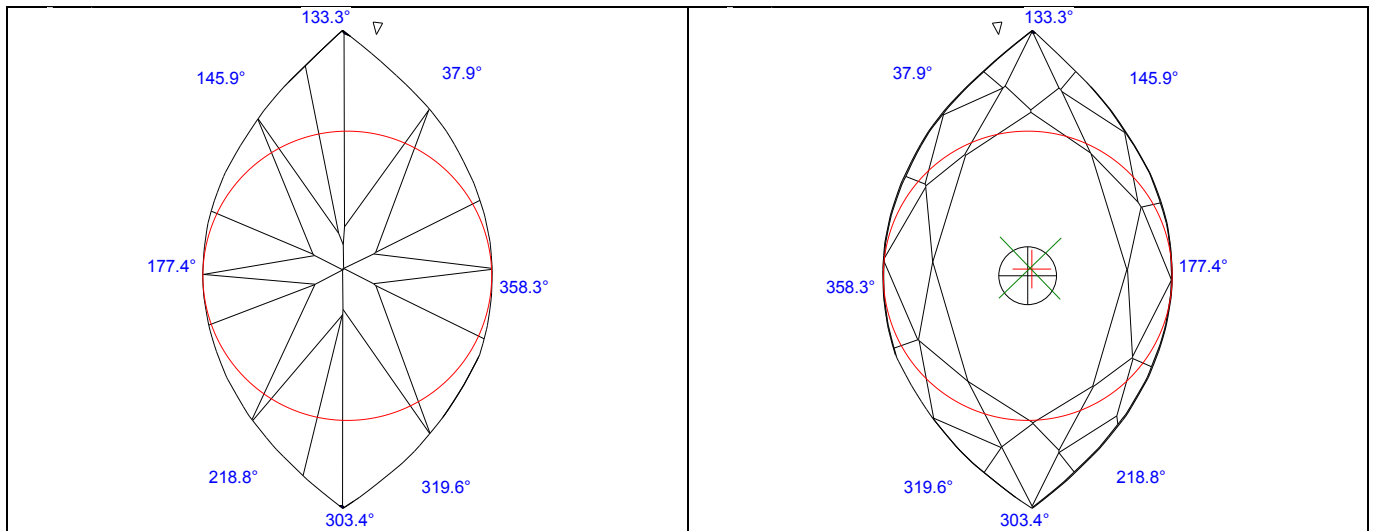
Girdle facets slope and azimuth angles



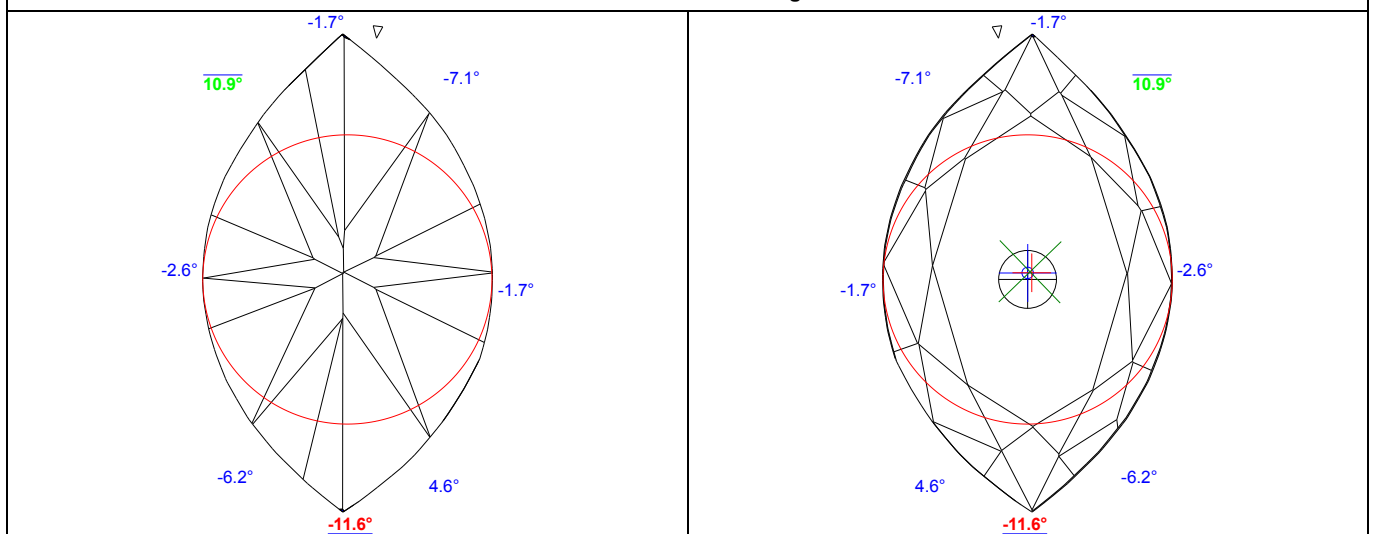
Girdle facets slope angles



Deviation of girdle facets slope angles from there ideal (90°)

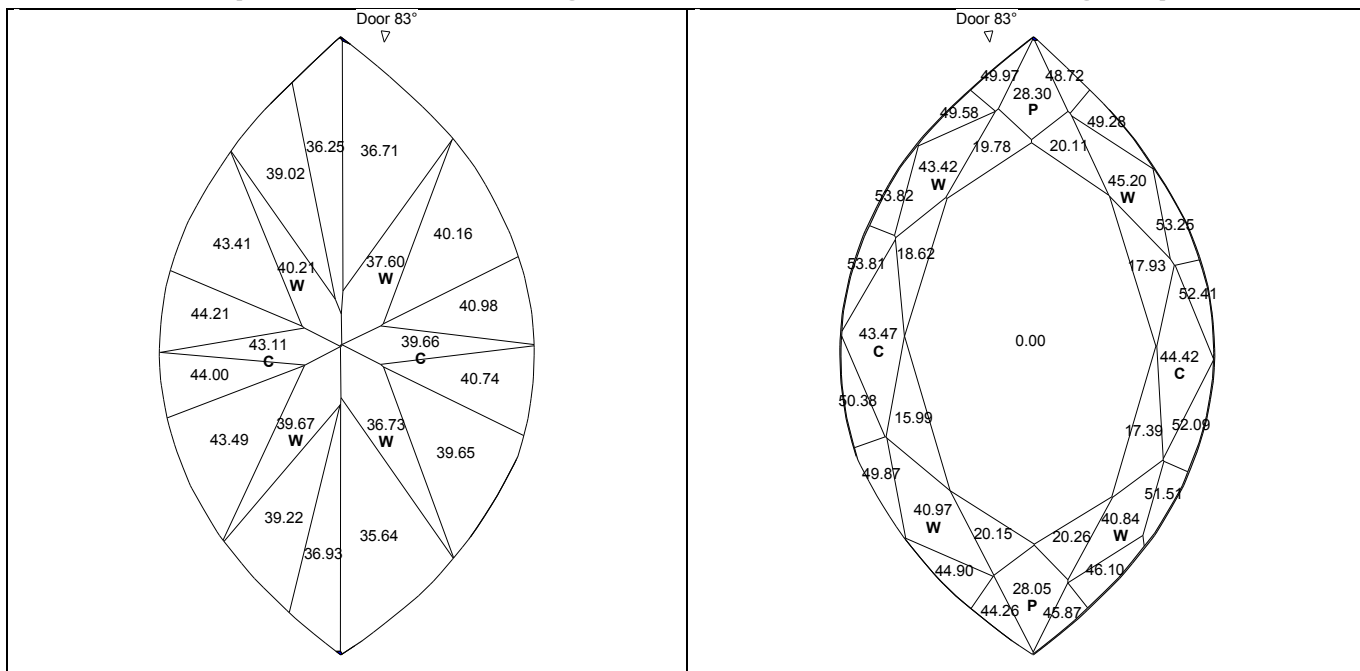


Girdle facets azimuth angles

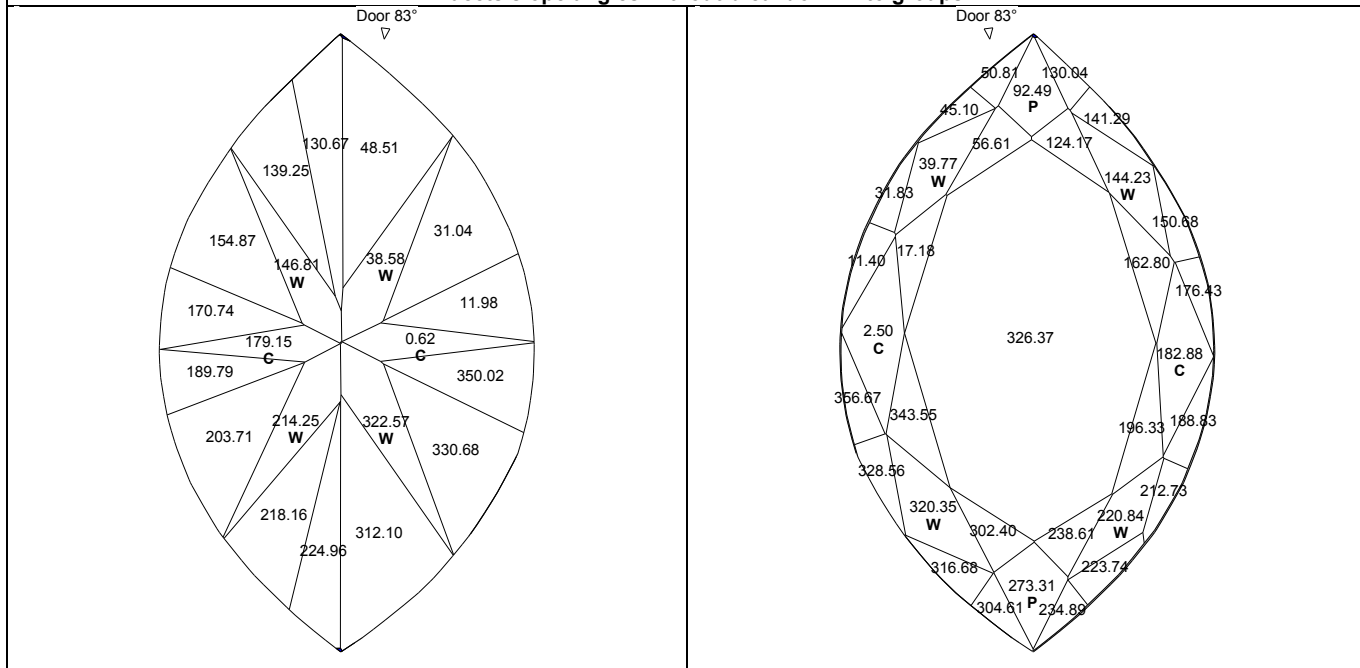


Deviation of girdle facets azimuth angles

All facets slope and azimuth angles without breakdown into groups

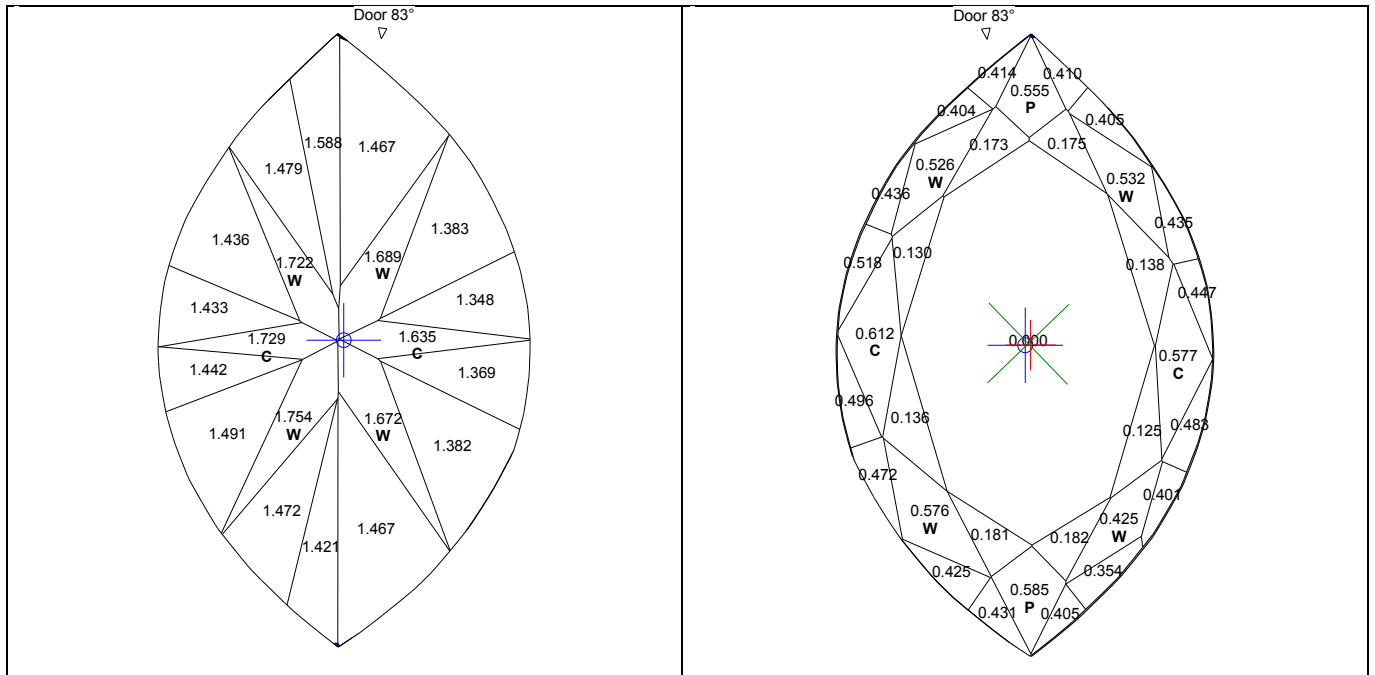


All facets slope angles without breakdown into groups

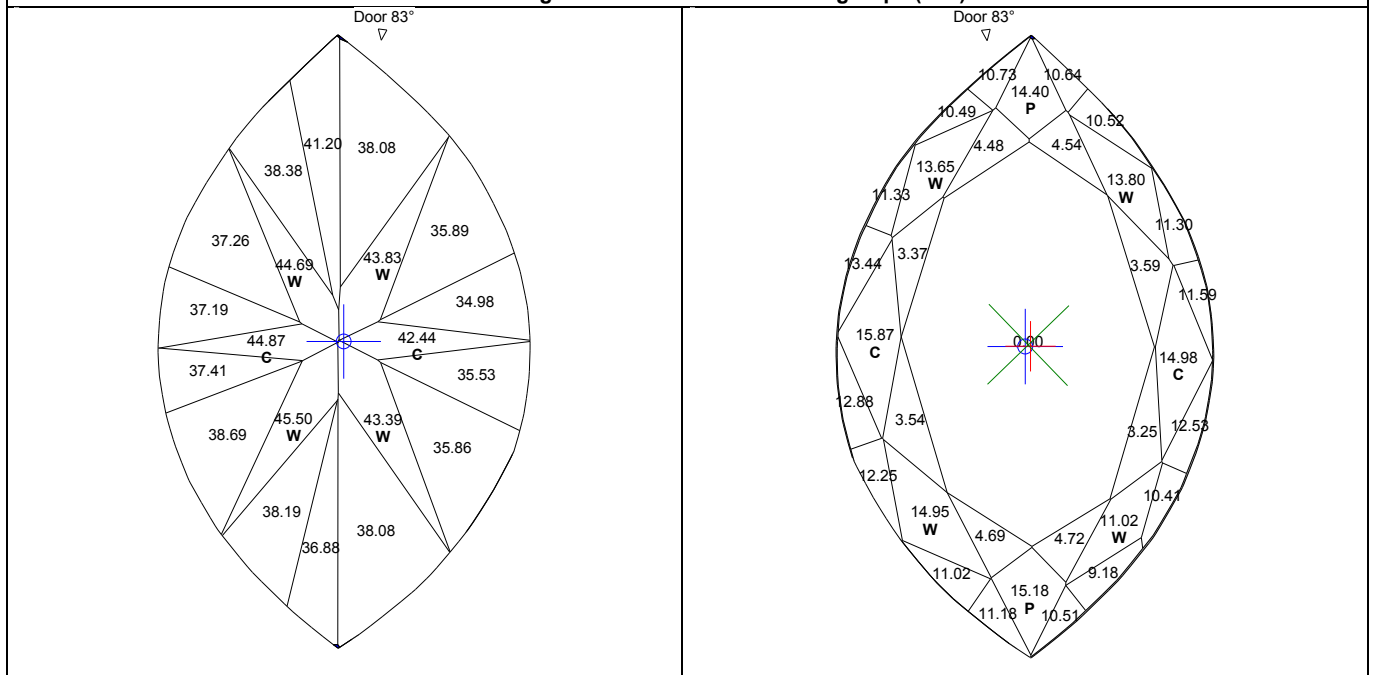


All facets azimuth angles without breakdown into groups

All facets heights without breakdown into groups

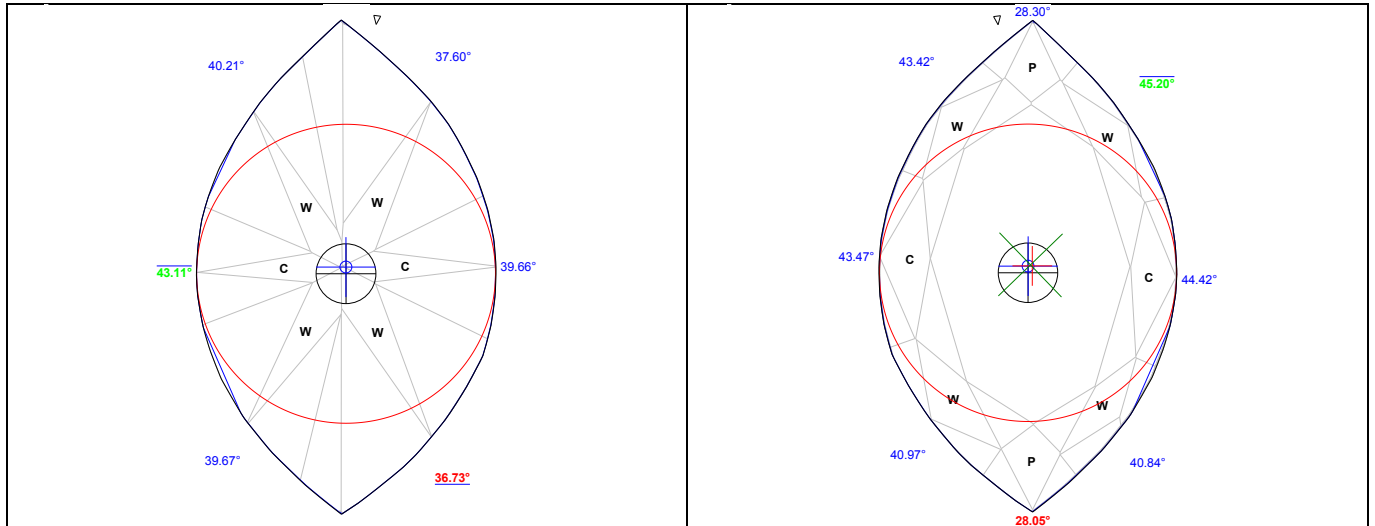


All facets heights without breakdown into groups (mm)

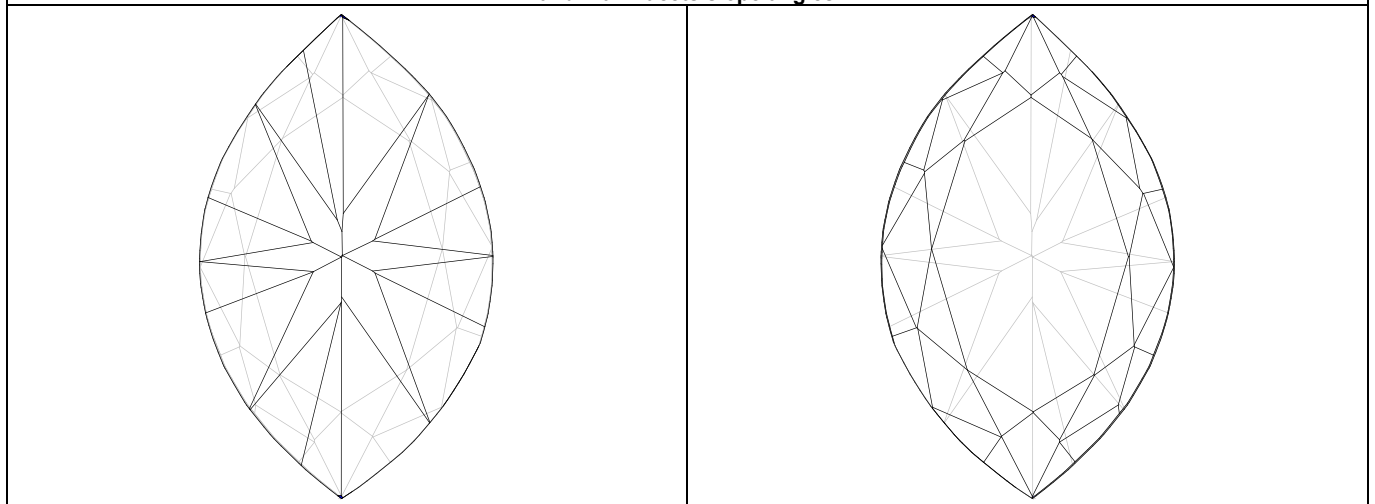


All facets heights without breakdown into groups (%)

Additional Illustrations



Pavilion and crown views 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, and main facets slope angles



Pavilion and crown views with indication of invisible edges without refraction

 Girdle center

 Culet center

 Table center

 MIC center