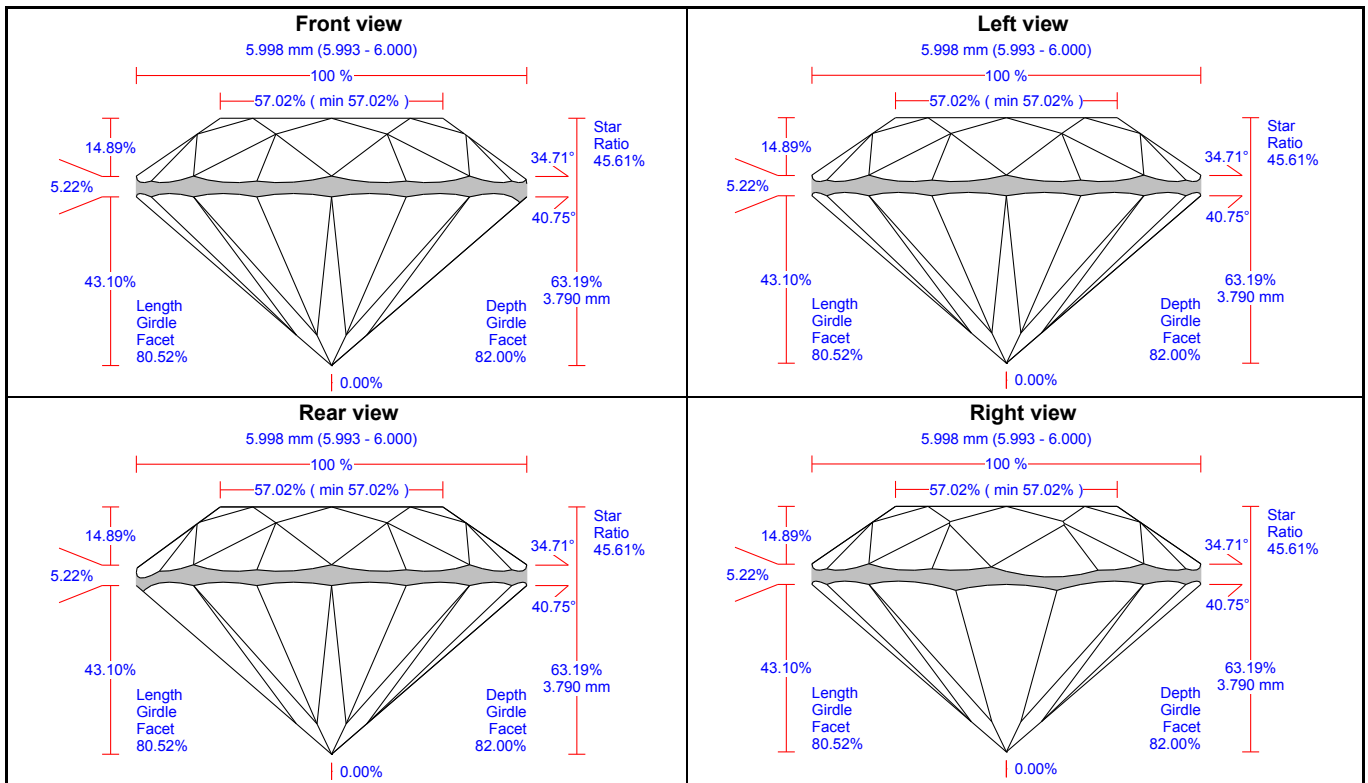


Full Report for Brilliant

General Information

Model	N/A	Extra Facet Girdle / Nat	No
Expert name	N/A	Extra Facet Crown	Yes (1)
Report date	N/A	Extra Facet Pavilion	No
Real weight, ct	N/A	Appraiser title	N/A
Calculated weight, ct	0.86, 0.8612	Overall cut quality	N/A
Spread	-0.06 ct, -8.06%	Symmetry appraiser title	Symmetry
AGS Spread	-0.06 ct, -8.11%	Overall symmetry quality	FR

Main Views



Main Parameters

Width	Length	Ratio (L/W)	Diameter Average	Diameter Minimum	Diameter Maximum	Total height	MIC	Girdle to MIC
5.993 mm	6.000 mm	1.001	5.998 mm	5.993 mm	6.000 mm	3.790 mm	5.993 mm	0.000 mm

Parameter		Avg	Min	Max	Dev	Cut	Sym
Diameter	mm	5.998	5.993	6.000	0.12 %	N/A	EX
Radius	mm	2.997	2.996	3.000	0.004		
Radius	%	49.97	49.96	50.02	0.06		
Crown angle	°	34.71	34.50	36.20	1.70	N/A	GD
Crown height	%	14.89	14.78	15.59	0.80	N/A	VG
Crown height	mm	0.893	0.887	0.935	0.048		
Crown height bone	%	16.12	16.07	16.46	0.39		
Crown height bone	mm	0.967	0.964	0.987	0.023		
Crown height valley	%	16.54	16.43	18.15	1.73	N/A	GD
Crown height valley	mm	0.992	0.985	1.089	0.104		
Pavilion angle	°	40.75	40.75	40.75	0.00	N/A	EX
Pavilion height	%	43.10	43.10	43.11	0.01		
Pavilion height	mm	2.585	2.585	2.585	0.000		
Pavilion height bezel	%	43.10	43.10	43.11	0.01	N/A	EX
Pavilion height bezel	mm	2.585	2.585	2.585	0.000		
Pavilion height upper bone	%	42.99	41.59	43.73	2.14		
Pavilion height upper bone	mm	2.578	2.494	2.623	0.128		
Pavilion height bone	%	42.72	41.59	43.11	1.52		
Pavilion height bone	mm	2.562	2.494	2.585	0.091		

Parameter		Avg	Min	Max	Dev	Cut	Sym
Pavilion height valley	%	43.84	43.10	43.95	0.85		
Pavilion height valley	mm	2.630	2.585	2.636	0.051	N/A	VG
Pavilion height valley type 2	%	43.89	43.10	43.95	0.85		
Pavilion height valley type 2	mm	2.633	2.585	2.636	0.051	N/A	N/A
Upper girdle facets angle	°	43.70	43.49	46.88	3.38		GD
Upper girdle facets height	%	12.36	11.66	13.36	1.70		
Upper girdle facets height	mm	0.741	0.699	0.801	0.102		VG
Star facets angle	°	20.40	20.40	20.40	0.00		EX
Star : Upper ratio	%	45.61 : 54.39	43.80 : 56.20	46.08 : 53.92	2.28	N/A	VG
Lower girdle facets angle	°	41.82	41.82	41.82	0.00		EX
Lower girdle facets height	%	36.20	36.20	36.20	0.00		
Lower girdle facets height	mm	2.171	2.171	2.171	0.000	N/A	EX
Depth girdle facet	%	82.00	82.00	82.00	0.00		
Length girdle facet	%	80.52	80.52	80.52	0.00		
Total height	%	63.19				N/A	
Total height	mm	3.790					
Table	%	57.02	57.02	57.02	0.00	N/A	EX
Table	mm	3.420	3.420	3.420	0.000		
Culet	%	0.00	0.00	0.00	0.00	N/A	EX
Culet	mm	0.000	0.000	0.000	0.000		
Twist	°	0.04	0.00	0.30	0.30		EX
Girdle height bezel	%	5.22	4.67	5.30	0.63	N/A	EX
Girdle height bezel	mm	0.313	0.280	0.318	0.038		
Girdle height bone	%	4.03	3.00	5.20	2.20		FR
Girdle height bone	mm	0.242	0.180	0.312	0.132		
Girdle height valley	%	2.95	2.60	4.01	1.41	N/A	VG
Girdle height valley	mm	0.177	0.156	0.241	0.085		
Girdle height valley type 2	%	2.87	2.60	2.90	0.30	N/A	N/A
Girdle height valley type 2	mm	0.172	0.156	0.174	0.018		
Girdle height (Crown Mains)	%	5.22	4.67	5.30	0.63		
Girdle height (Crown Mains)	mm	0.313	0.280	0.318	0.038		
Girdle height (Pavilion Mains)	%	5.05	3.34	5.30	1.96		
Girdle height (Pavilion Mains)	mm	0.303	0.201	0.318	0.117		
Girdle height (Upper girdle facets)	%	3.12	2.80	4.70	1.90		
Girdle height (Upper girdle facets)	mm	0.187	0.168	0.282	0.114		
Girdle height (Lower girdle facets)	%	2.91	2.89	2.92	0.03		
Girdle height (Lower girdle facets)	mm	0.174	0.174	0.175	0.002		

Measurement as per OctoNus theory							
Crown angle	°	34.71	34.50	35.35	0.85		
Pavilion angle	°	40.75	40.75	40.75	0.00		
Culet through bezel	°	8.71				N/A	
Fish eye effect	°	7.88				N/A	

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

Obsolete parameter	New parameter		Avg	Min	Max	Dev
Pavilion depth	Pavilion height bezel	%	43.10	43.10	43.11	0.01
Pavilion depth	Pavilion height bezel	mm	2.585	2.585	2.585	0.000

Table of Obsolete Parameters (from Old Full Report for Brilliant)

Obsolete parameter		Avg	Min	Max	Dev
Crown height at girdle minima	%	16.54	16.43	18.15	1.73
Crown height at girdle minima	mm	0.992	0.985	1.089	0.104
Pavilion depth bone	%	42.72	41.59	43.11	1.52
Pavilion depth bone	mm	2.562	2.494	2.585	0.091
Pavilion depth at girdle minima	%	43.89	43.10	43.95	0.85
Pavilion depth at girdle minima	mm	2.633	2.585	2.636	0.051

Detailed Parameters

Parameter		1	2	3	4	5	6	7	8
Diameter	mm	6.000	6.000	6.000	6.000				
Radius	mm	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
Radius	%	50.02	50.02	50.02	50.02	50.02	50.02	50.02	50.02
Crown angle	°	36.20	34.50	34.50	34.50	34.50	34.50	34.50	34.50
Crown height	%	15.59	14.79	14.79	14.79	14.78	14.79	14.79	14.79
Crown height	mm	0.935	0.887	0.887	0.887	0.887	0.887	0.887	0.887
Crown height bone	%	16.07	16.08	16.08	16.08	16.07	16.08	16.08	16.46
Crown height bone	mm	0.964	0.964	0.964	0.964	0.964	0.964	0.964	0.987
Crown height valley	%	16.43	16.43	16.43	16.43	16.43	16.43	16.43	16.43
		16.43	16.43	16.43	16.43	16.43	16.43	16.46	18.15
Crown height valley	mm	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985
		0.985	0.985	0.985	0.985	0.985	0.985	0.987	1.089
Crown azimuth	°	359.7	45.0	90.0	135.0	180.0	225.0	270.0	315.0
Crown azimuth deviation from ideal	°	-0.30	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
Pavilion angle	°	40.75	40.75	40.75	40.75	40.75	40.75	40.75	40.75
Pavilion height	%	43.10	43.10	43.11	43.10	43.10	43.10	43.11	43.10
Pavilion height	mm	2.585	2.585	2.585	2.585	2.585	2.585	2.585	2.585
Pavilion height bezel	%	43.10	43.10	43.11	43.10	43.10	43.10	43.11	43.10
Pavilion height bezel	mm	2.585	2.585	2.585	2.585	2.585	2.585	2.585	2.585
Pavilion height upper bone	%	41.59	43.10	43.11	43.10	43.10	43.10	43.11	43.73
Pavilion height upper bone	mm	2.494	2.585	2.585	2.585	2.585	2.585	2.585	2.623
Pavilion height bone	%	41.59	43.10	43.11	43.10	43.10	43.10	43.11	41.59
Pavilion height bone	mm	2.494	2.585	2.585	2.585	2.585	2.585	2.585	2.494
Pavilion height valley	%	43.10	43.95	43.95	43.95	43.95	43.95	43.95	43.95
		43.95	43.95	43.95	43.95	43.95	43.95	43.95	43.10
Pavilion height valley	mm	2.585	2.636	2.636	2.636	2.636	2.636	2.636	2.636
		2.636	2.636	2.636	2.636	2.636	2.636	2.636	2.585
Pavilion height valley type 2	%	43.10	43.95	43.95	43.95	43.95	43.95	43.95	43.95
		43.95	43.95	43.95	43.95	43.95	43.95	43.95	N/A
Pavilion height valley type 2	mm	2.585	2.636	2.636	2.636	2.636	2.636	2.636	2.636
		2.636	2.636	2.636	2.636	2.636	2.636	2.636	N/A
Pavilion azimuth	°	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
Pavilion azimuth deviation from ideal	°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
Upper girdle facets angle	°	43.49	43.49	43.49	43.49	43.49	43.49	43.49	43.49
		43.49	43.49	43.49	43.49	43.49	43.49	43.49	46.88
Upper girdle facets height	%	11.66	12.16	12.38	12.38	12.38	12.38	12.38	12.38
		12.38	12.38	12.38	12.38	12.38	12.38	12.04	13.36
Upper girdle facets height	mm	0.699	0.729	0.742	0.742	0.742	0.742	0.742	0.742
		0.742	0.742	0.742	0.742	0.742	0.742	0.722	0.801
Upper girdle facets azimuth	°	15.3	29.7	60.3	74.7	105.3	119.7	150.3	164.8
		195.3	209.8	240.3	254.8	285.3	299.7	330.3	346.6
Upper girdle facets azimuth deviation from ideal	°	4.00	-4.00	4.00	-4.00	4.00	-4.00	4.00	-4.00
		4.00	-4.00	4.00	-4.00	4.00	-4.00	4.00	-2.13
Star facets angle	°	20.40	20.40	20.40	20.40	20.40	20.40	20.40	20.40
Star facets azimuth	°	22.5	67.5	112.5	157.5	202.5	247.5	292.5	337.5
Star facets azimuth deviation from ideal	°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
Star : Upper ratio	%	44.61 :	46.08 :	46.08 :	46.08 :	46.08 :	46.08 :	46.08 :	43.80 :
		55.39	53.92	53.92	53.92	53.92	53.92	53.92	56.20
Lower girdle facets angle	°	41.82	41.82	41.82	41.82	41.82	41.82	41.82	41.82
		41.82	41.82	41.82	41.82	41.82	41.82	N/A	N/A
Lower girdle facets height	%	36.20	36.20	36.20	36.20	36.20	36.20	36.20	36.20
		36.20	36.20	36.20	36.20	36.20	36.20	N/A	N/A
Lower girdle facets height	mm	2.171	2.171	2.171	2.171	2.171	2.171	2.171	2.171
		2.171	2.171	2.171	2.171	2.171	2.171	N/A	N/A
Lower girdle facets azimuth	°	33.7	56.3	78.7	101.3	123.7	146.3	168.8	191.3
		213.8	236.3	258.8	281.3	303.7	326.3	N/A	N/A
Lower girdle facets azimuth deviation from ideal	°	22.50	22.50	22.50	22.50	22.50	22.50	22.50	22.50
		22.50	22.50	22.50	22.50	22.50	22.50	N/A	N/A
Depth girdle facet	%	N/A	82.00	82.00	82.00	82.00	82.00	82.00	82.00
		82.00	82.00	82.00	82.00	82.00	N/A	N/A	N/A
Length girdle facet	%	N/A	80.52	80.52	80.52	80.52	80.52	80.52	80.52
		80.52	80.52	80.52	80.52	80.52	N/A	N/A	N/A
Table	%	57.02	57.02	57.02	57.02				
Table	mm	3.420	3.420	3.420	3.420				
Twist	°	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Girdle height bezel	%	4.67	5.30	5.29	5.29	5.30	5.30	5.29	5.29
Girdle height bezel	mm	0.280	0.318	0.317	0.317	0.318	0.318	0.317	0.317
Girdle height bone	%	5.20	4.01	4.00	4.01	4.01	4.01	4.00	3.00
Girdle height bone	mm	0.312	0.240	0.240	0.240	0.241	0.240	0.240	0.180

Parameter		1	2	3	4	5	6	7	8
Girdle height valley	%	4.01	2.89	2.89	2.90	2.89	2.90	2.89	2.89
		2.89	2.89	2.89	2.89	2.90	2.89	2.89	2.60
Girdle height valley	mm	0.241	0.174	0.174	0.174	0.174	0.174	0.174	0.174
		0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.156
Girdle height valley type 2	%	2.60	2.89	2.89	2.90	2.89	2.90	2.89	2.89
		2.89	2.89	2.89	2.89	2.90	2.89	2.89	N/A
Girdle height valley type 2	mm	0.156	0.174	0.174	0.174	0.174	0.174	0.174	0.174
		0.174	0.174	0.174	0.174	0.174	0.174	0.174	N/A
Girdle height (Crown Mains)	%	4.67	5.30	5.29	5.29	5.30	5.30	5.29	5.29
Girdle height (Crown Mains)	mm	0.280	0.318	0.317	0.317	0.318	0.318	0.317	0.317
Girdle height (Pavilion Mains)	%	3.34	5.30	5.29	5.29	5.30	5.30	5.29	5.29
Girdle height (Pavilion Mains)	mm	0.201	0.318	0.317	0.317	0.318	0.318	0.317	0.317
Girdle height (Upper girdle facets)	%	4.70	3.03	3.02	3.04	3.02	3.04	3.02	3.03
		3.03	3.03	3.04	3.02	3.04	3.02	3.00	2.80
Girdle height (Upper girdle facets)	mm	0.282	0.182	0.181	0.182	0.181	0.182	0.181	0.182
		0.182	0.182	0.182	0.181	0.182	0.181	0.180	0.168
Girdle height (Lower girdle facets)	%	2.92	2.89	2.92	2.89	2.92	2.89	2.92	2.89
		2.89	2.92	2.89	2.92	2.89	2.92	N/A	N/A
Girdle height (Lower girdle facets)	mm	0.175	0.174	0.175	0.174	0.175	0.174	0.175	0.174
		0.174	0.175	0.174	0.175	0.174	0.175	N/A	N/A

Measurement as per OctoNus theory									
Crown angle	°	35.35	34.50	34.50	34.50				
Pavilion angle	°	40.75	40.75	40.75	40.75				

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

Obsolete parameter	New parameter		1	2	3	4	5	6	7	8
Pavilion depth	Pavilion height bezel	%	43.10	43.10	43.11	43.10	43.10	43.10	43.11	43.10
Pavilion depth	Pavilion height bezel	mm	2.585	2.585	2.585	2.585	2.585	2.585	2.585	2.585

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

Obsolete parameter	New parameter		1	2	3	4	5	6	7	8
Crown height (Mains)	Crown height	%	15.59	14.79	14.79	14.79	14.78	14.79	14.79	14.79
Crown height (Mains)	Crown height	mm	0.935	0.887	0.887	0.887	0.887	0.887	0.887	0.887
Pavilion depth (Mains)	Pavilion height bezel	%	43.10	43.10	43.11	43.10	43.10	43.10	43.11	43.10
Pavilion depth (Mains)	Pavilion height bezel	mm	2.585	2.585	2.585	2.585	2.585	2.585	2.585	2.585

Table of Obsolete Parameters (from Old Full Report for Brilliant)

Obsolete parameter		1	2	3	4	5	6	7	8
Crown height at girdle minima	%	16.43	16.43	16.43	16.43	16.43	16.43	16.43	16.43
		16.43	16.43	16.43	16.43	16.43	16.43	16.46	18.15
Crown height at girdle minima	mm	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985
		0.985	0.985	0.985	0.985	0.985	0.985	0.987	1.089
Pavilion depth bone	%	41.59	43.10	43.11	43.10	43.10	43.10	43.11	41.59
Pavilion depth bone	mm	2.494	2.585	2.585	2.585	2.585	2.585	2.585	2.494
Pavilion depth at girdle minima	%	43.10	43.95	43.95	43.95	43.95	43.95	43.95	43.95
		43.95	43.95	43.95	43.95	43.95	43.95	43.95	N/A
Pavilion depth at girdle minima	mm	2.585	2.636	2.636	2.636	2.636	2.636	2.636	2.636
		2.636	2.636	2.636	2.636	2.636	2.636	2.636	N/A

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

Obsolete parameter		1	2	3	4	5	6	7	8
Crown height (Upper girdle facets)	%	16.43	16.43	16.43	16.42	16.43	16.42	16.43	16.42
		16.43	16.43	16.42	16.43	16.42	16.43	16.46	18.15
Crown height (Upper girdle facets)	mm	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985
		0.985	0.985	0.985	0.985	0.985	0.985	0.987	1.089
Pavilion depth (Lower girdle facets)	%	43.95	43.95	43.95	43.95	43.95	43.95	43.95	43.95
		43.95	43.95	43.95	43.95	43.95	43.95	N/A	N/A
Pavilion depth (Lower girdle facets)	mm	2.636	2.636	2.636	2.636	2.636	2.636	2.636	2.636
		2.636	2.636	2.636	2.636	2.636	2.636	N/A	N/A

Paint / Dug		Avg	Type	Sym	Max	Dev	Sym
Crown	°	3.88	Digging	VG	4.30	2.48	EX
Crown	notches	1.0, Moderate			1.1	0.7	
Pavilion	°	0.00		EX	0.00	0.00	EX
Pavilion	notches	0.0, Negligible			0.0	0.0	

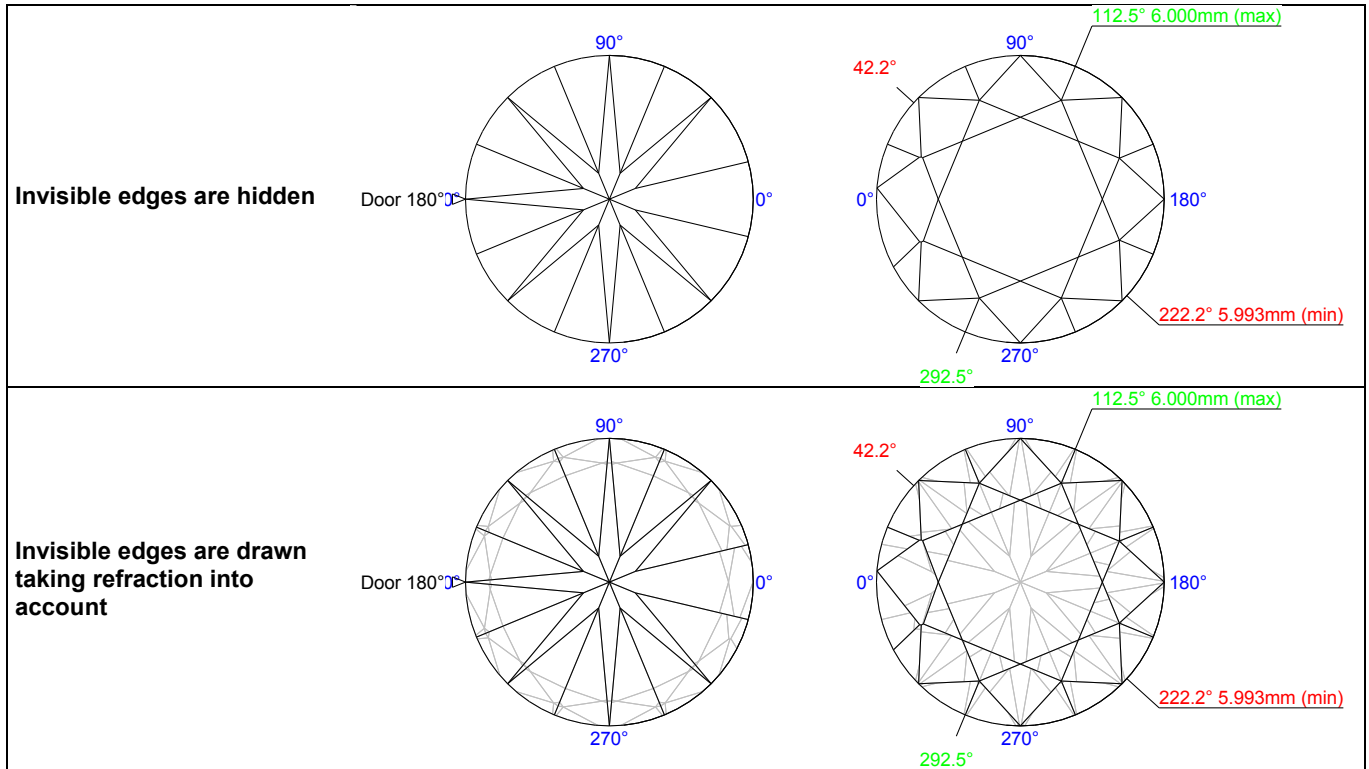
Paint / Dug		1	2	3	4	5	6	7	8
Crown painting	°	4.30	4.00	4.00	4.00	4.00	4.00	4.00	4.00
		4.00	4.00	4.00	4.00	4.00	4.00	4.00	1.82
Crown painting	notches	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
		1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.5
Pavilion painting	°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	-0.00	0.00	0.00	0.00	N/A	N/A
Pavilion painting	notches	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A

Offset	Distance, %	Distance, mm
Girdle-Culet offset by table axis	0.00 ± 0.21	0.000 ± 0.011
Girdle-Table offset by table axis	0.00 ± 0.18	0.000 ± 0.012
Culet-Table offset by table axis	0.00 ± 0.22	0.000 ± 0.013
Girdle to table-culet line offset	0.00	0.000

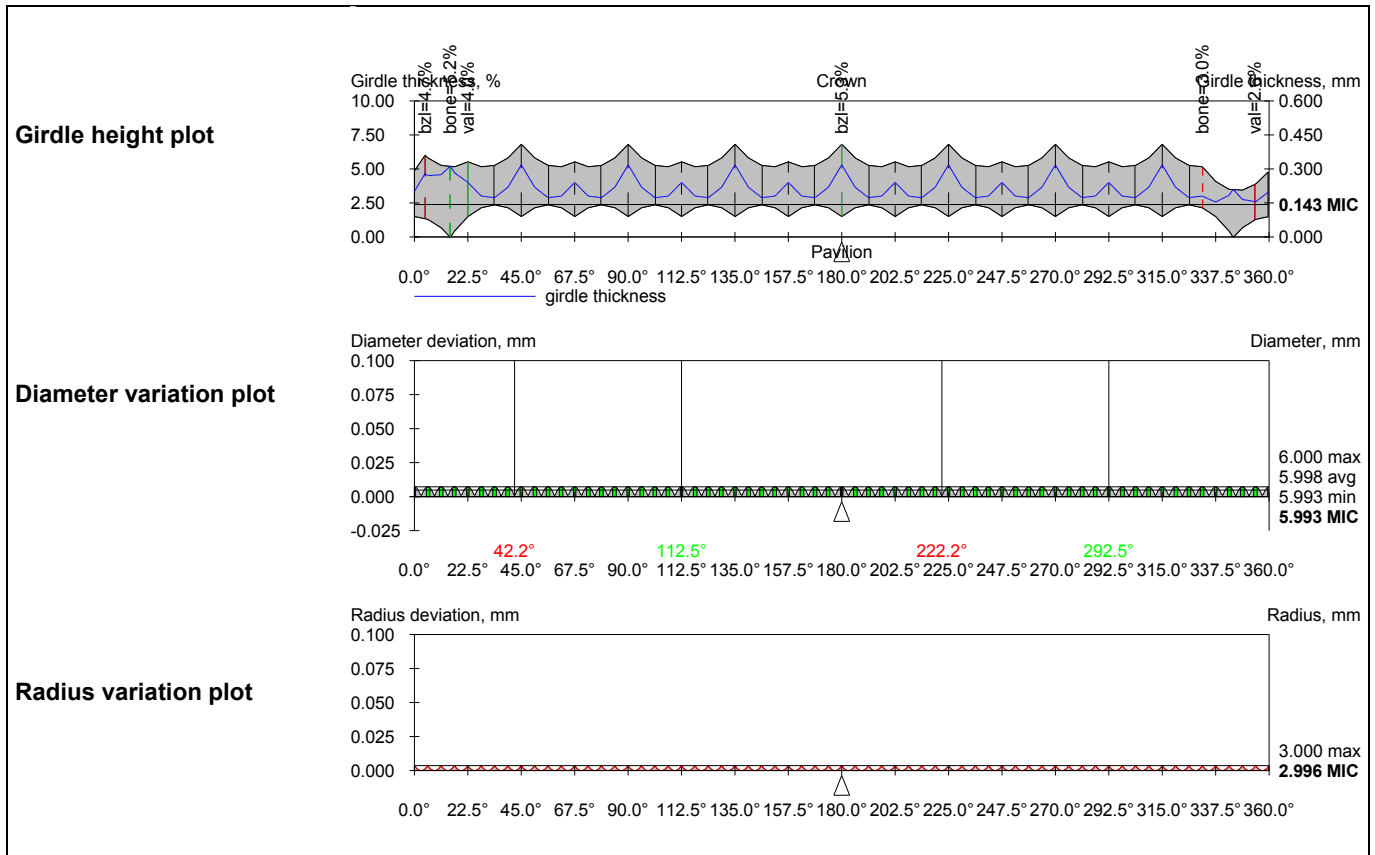
Culet shift ratio by main diameter	
Main diameter (avg)	5.998 mm, 100%
Width-wise culet shift ratio	3.000 mm, 50.02 %
Length-wise culet shift ratio	3.000 mm, 50.02 %

Model building info		1	2	3	4	5	6	7	8
N/A									
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	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

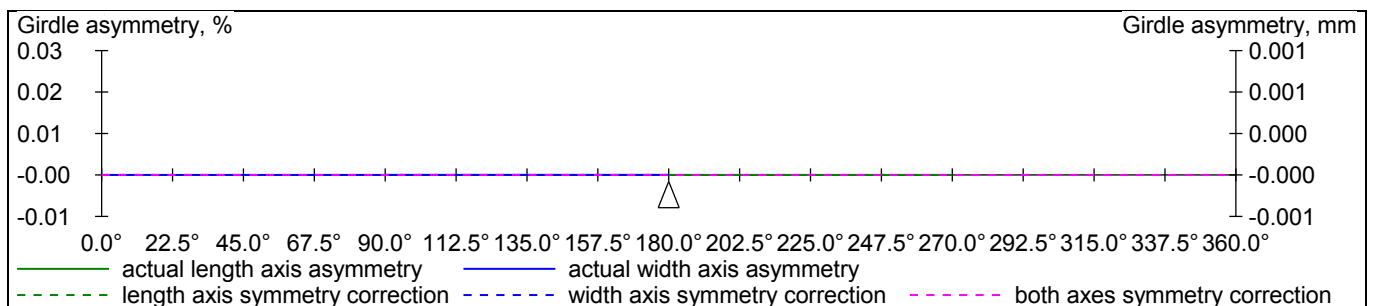
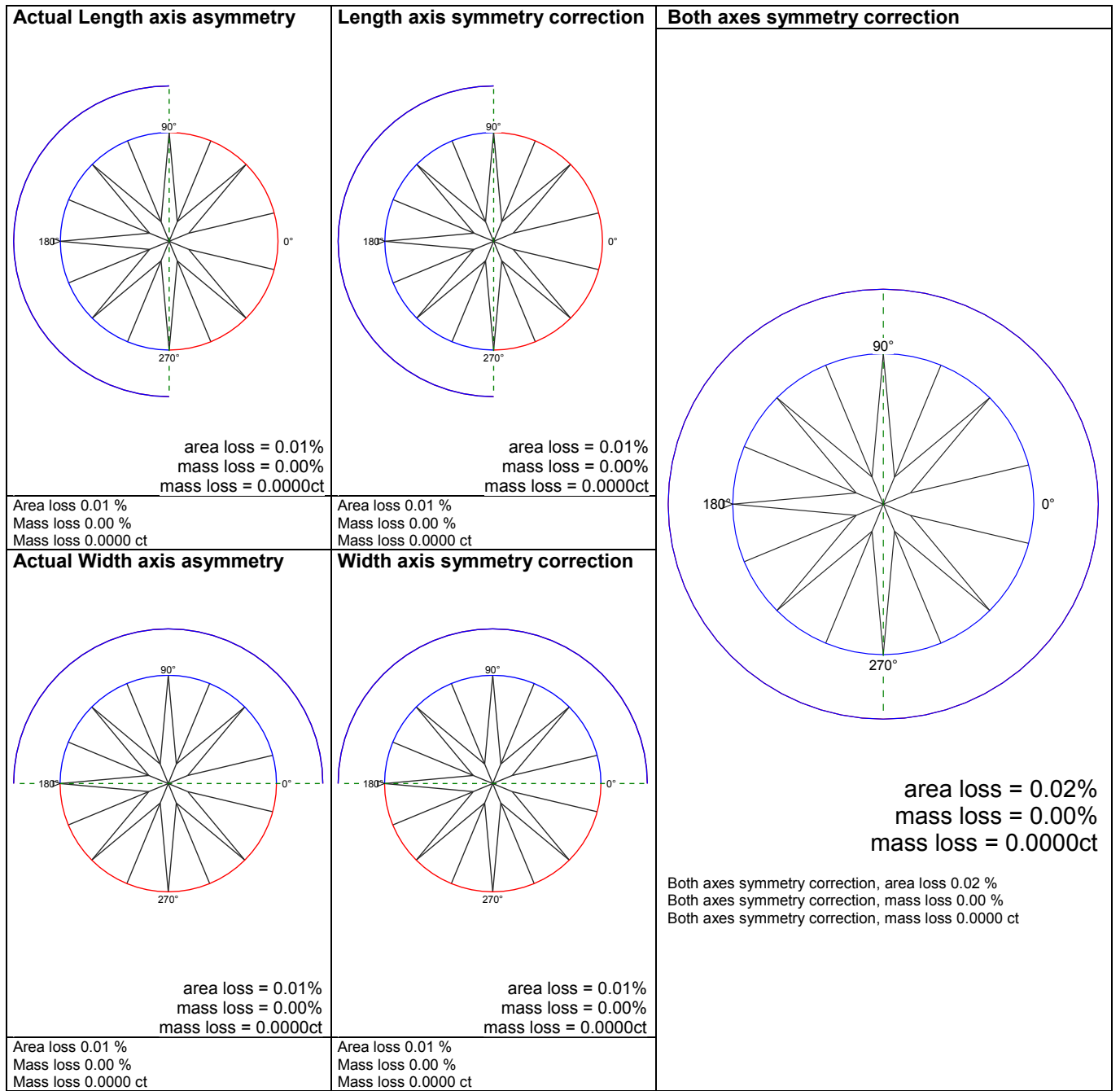
Crown and pavilion views with indication minimum and maximum



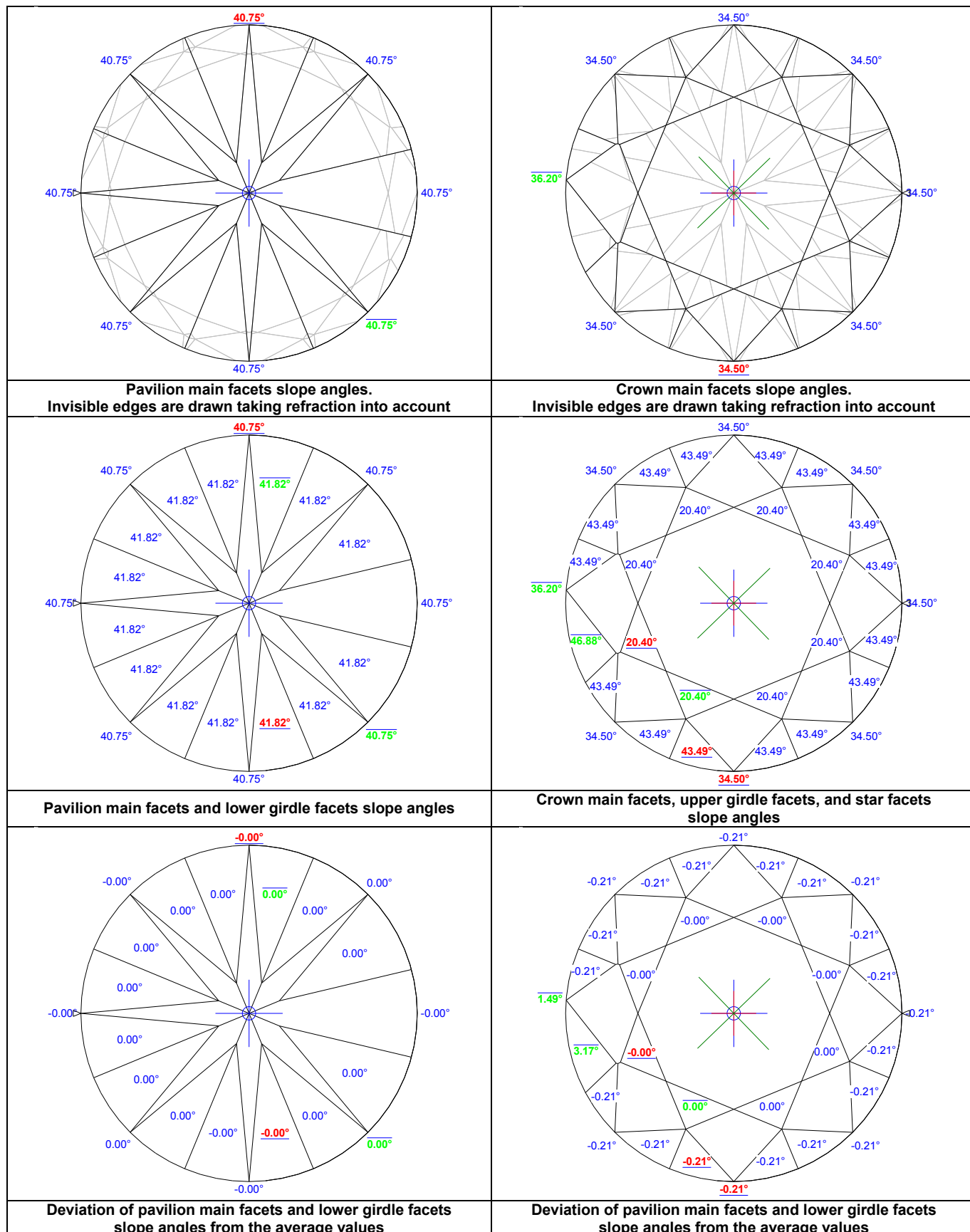
Plots

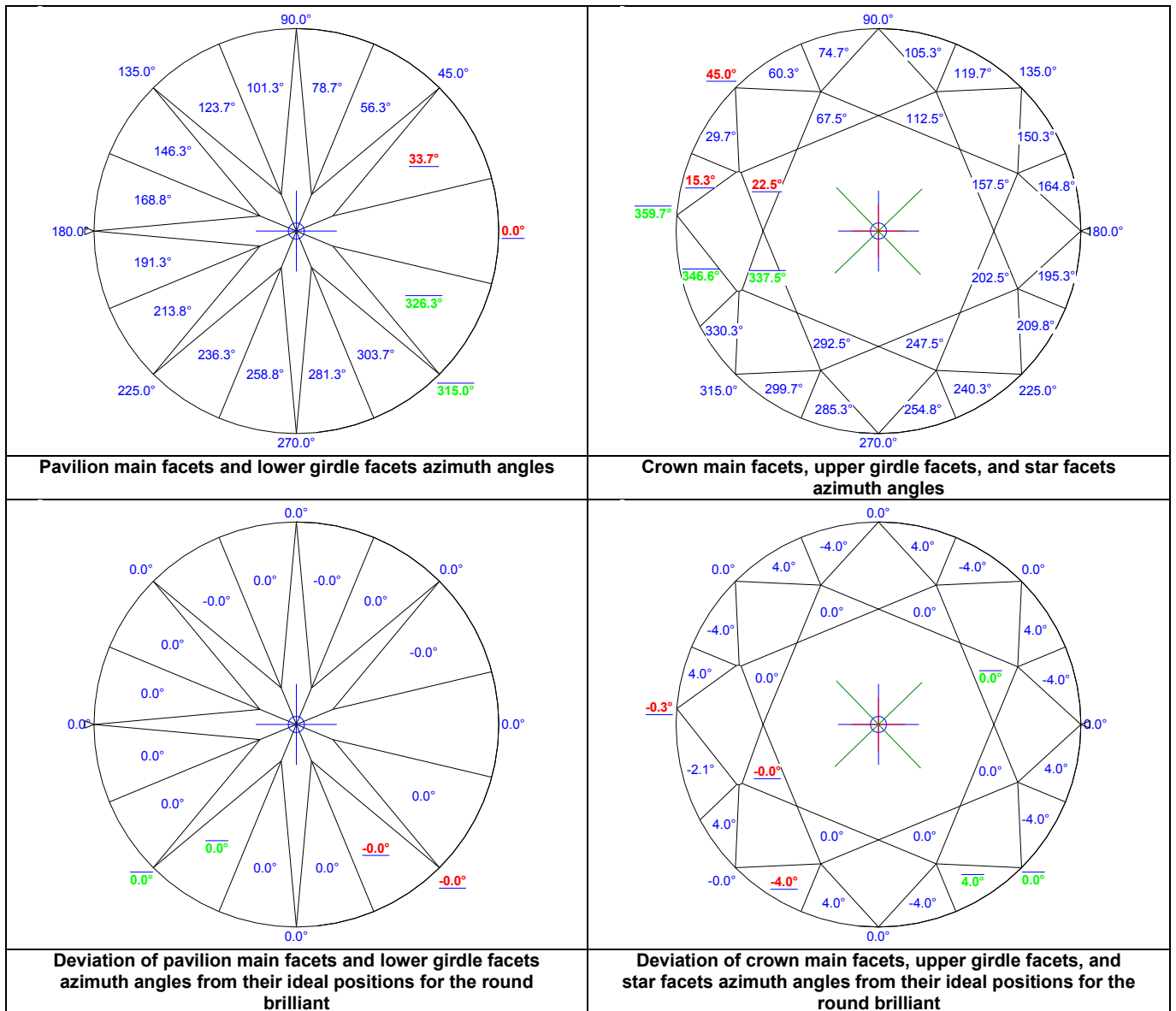


Girdle asymmetry

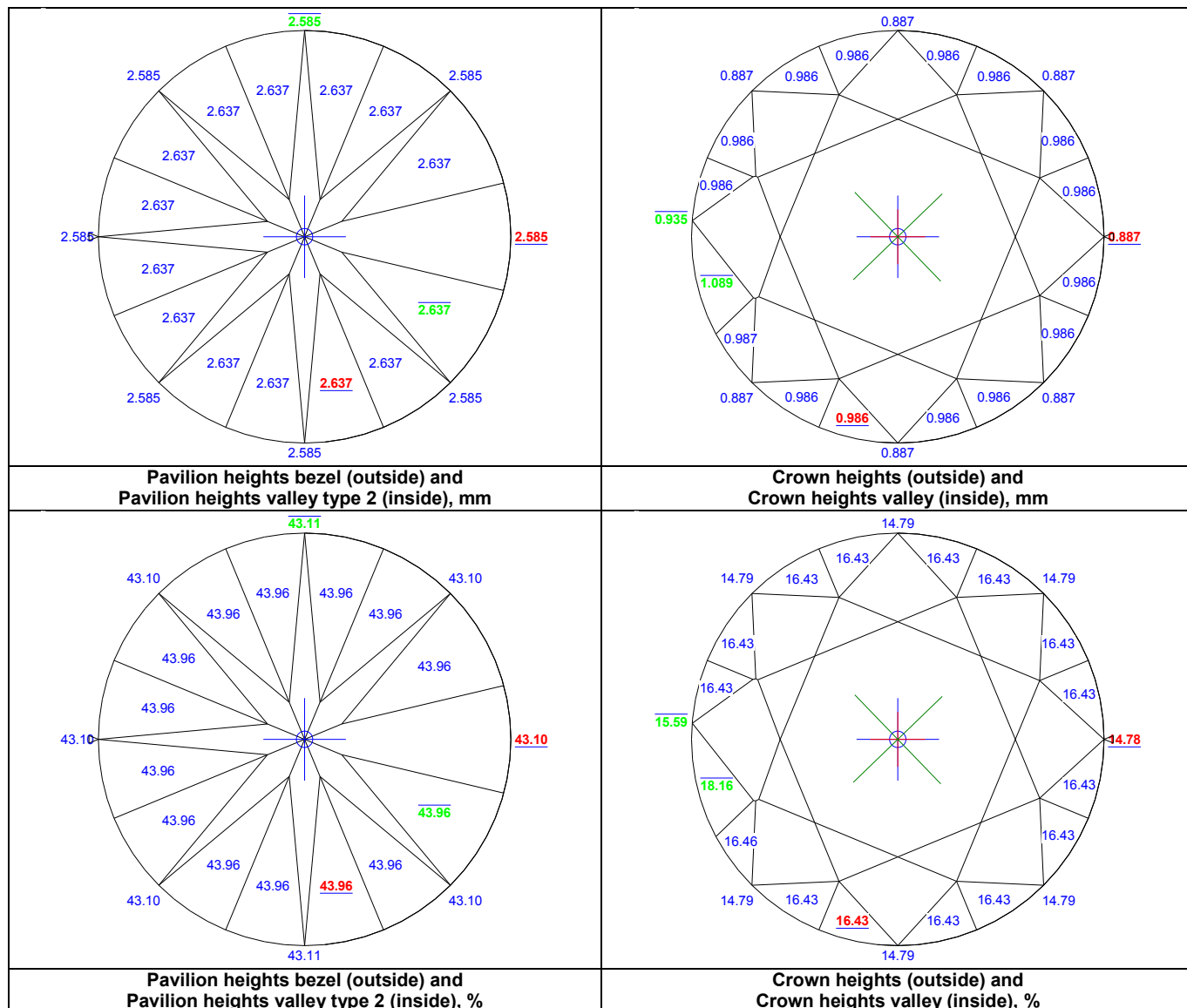


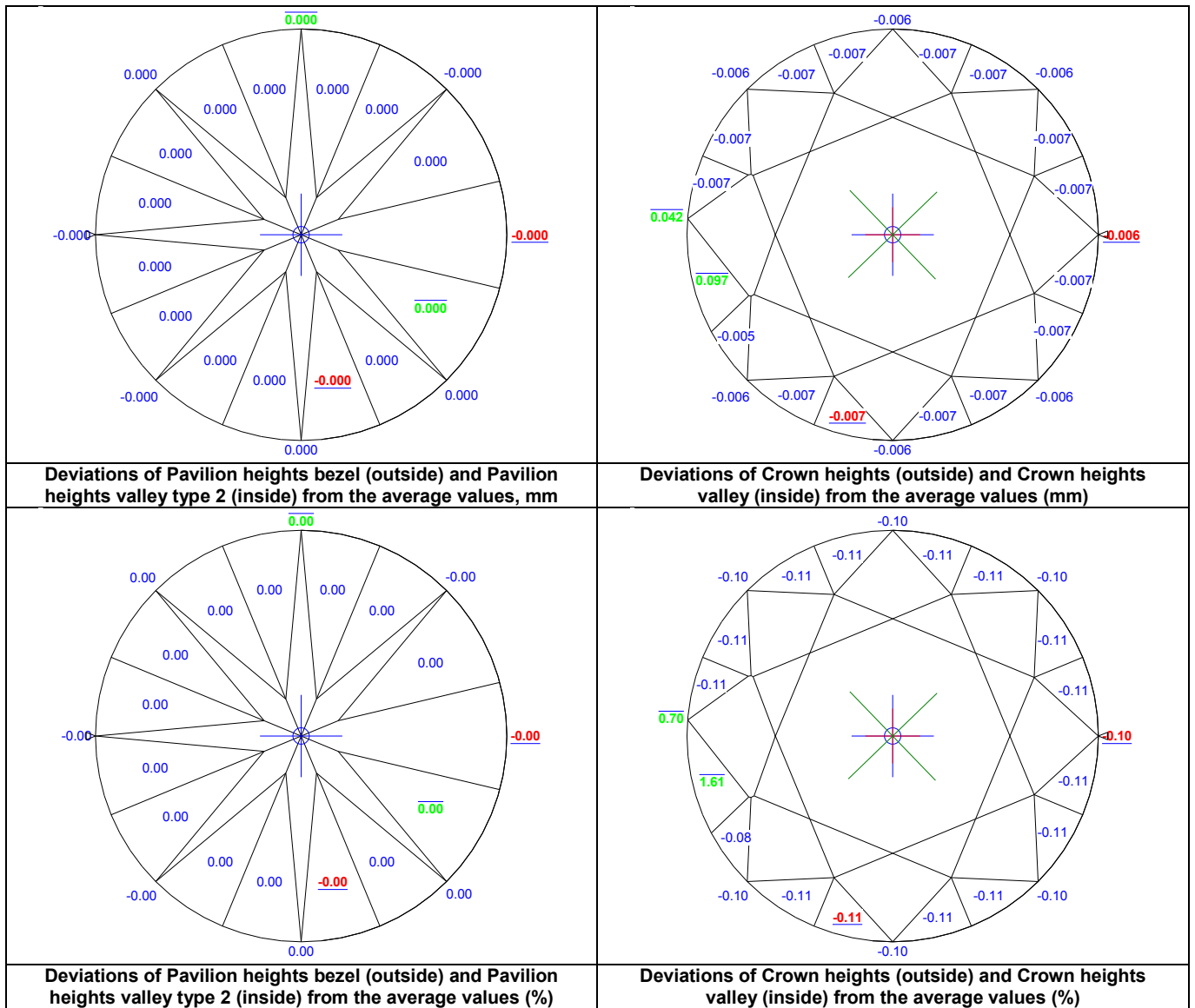
Facets slope and azimuth angles



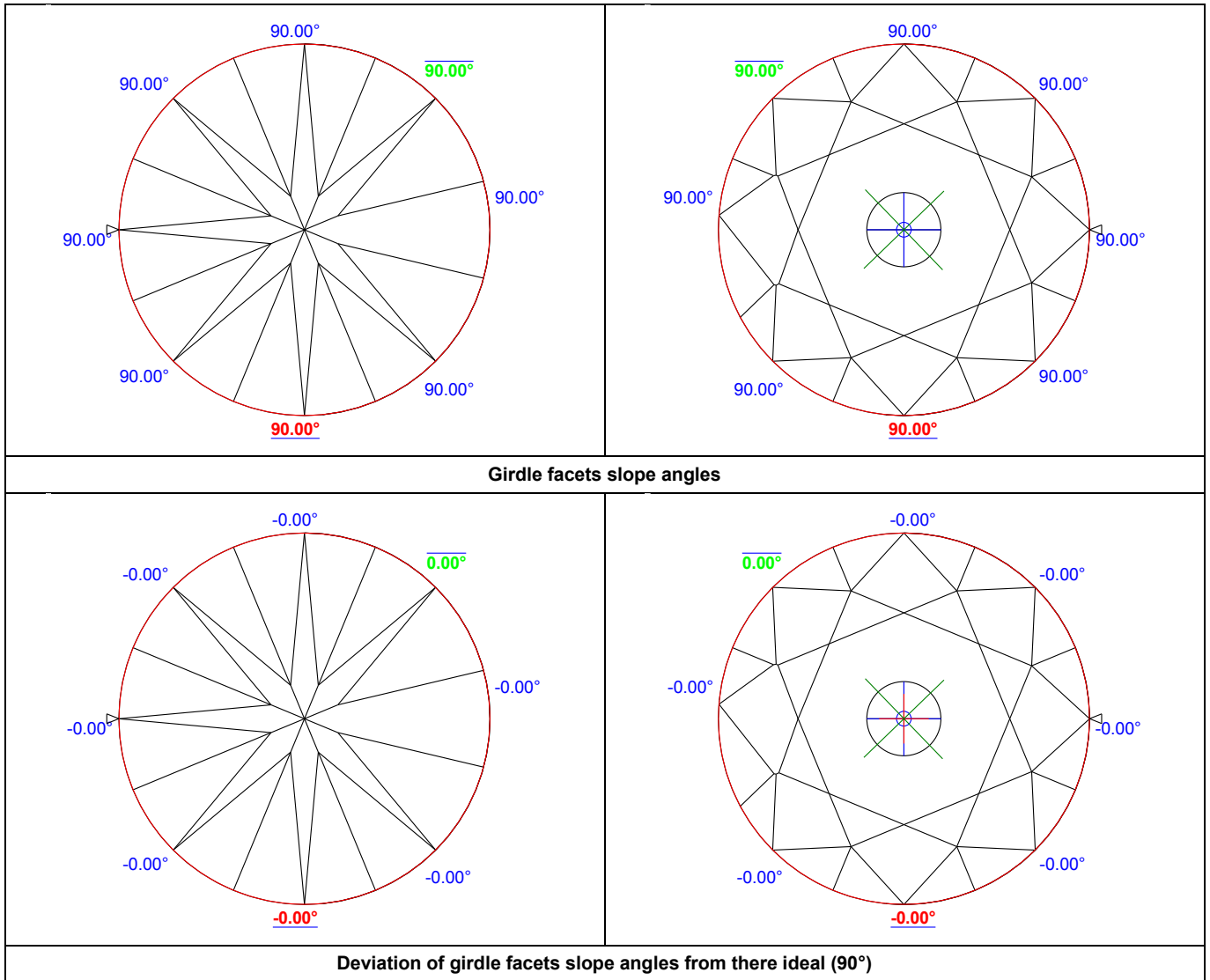


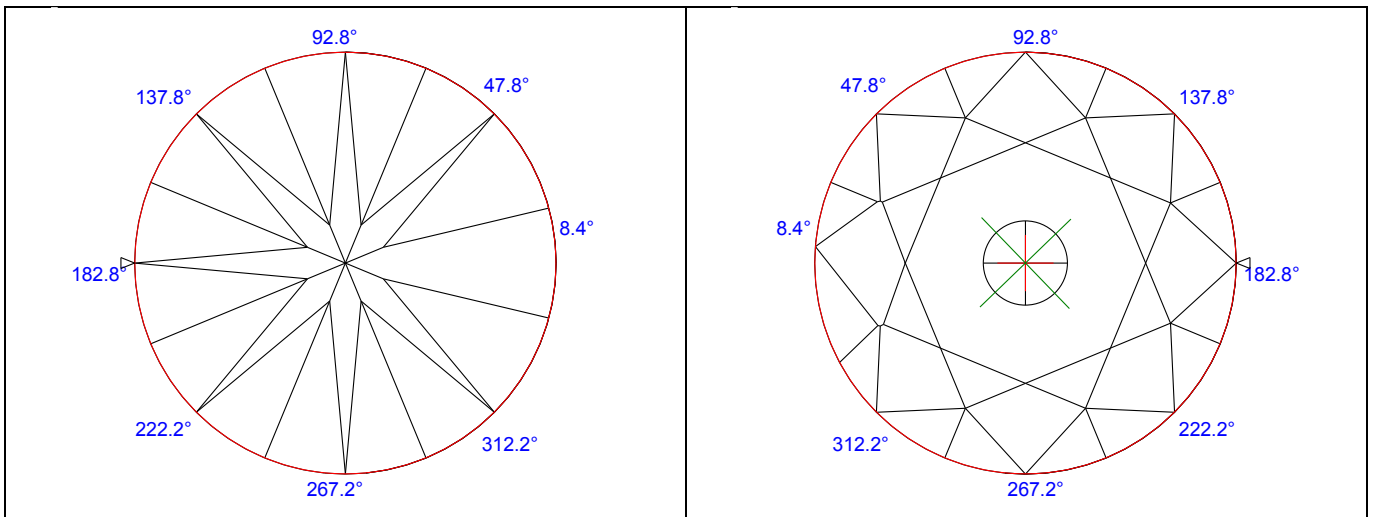
Pavilion and crown heights



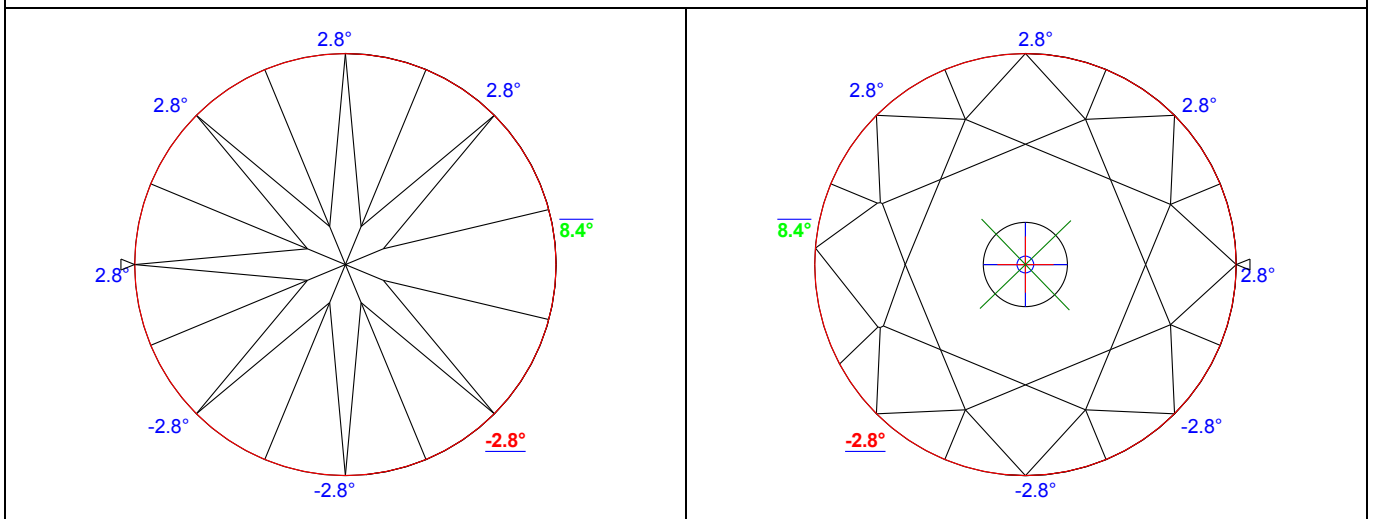


Girdle facets slope and azimuth angles



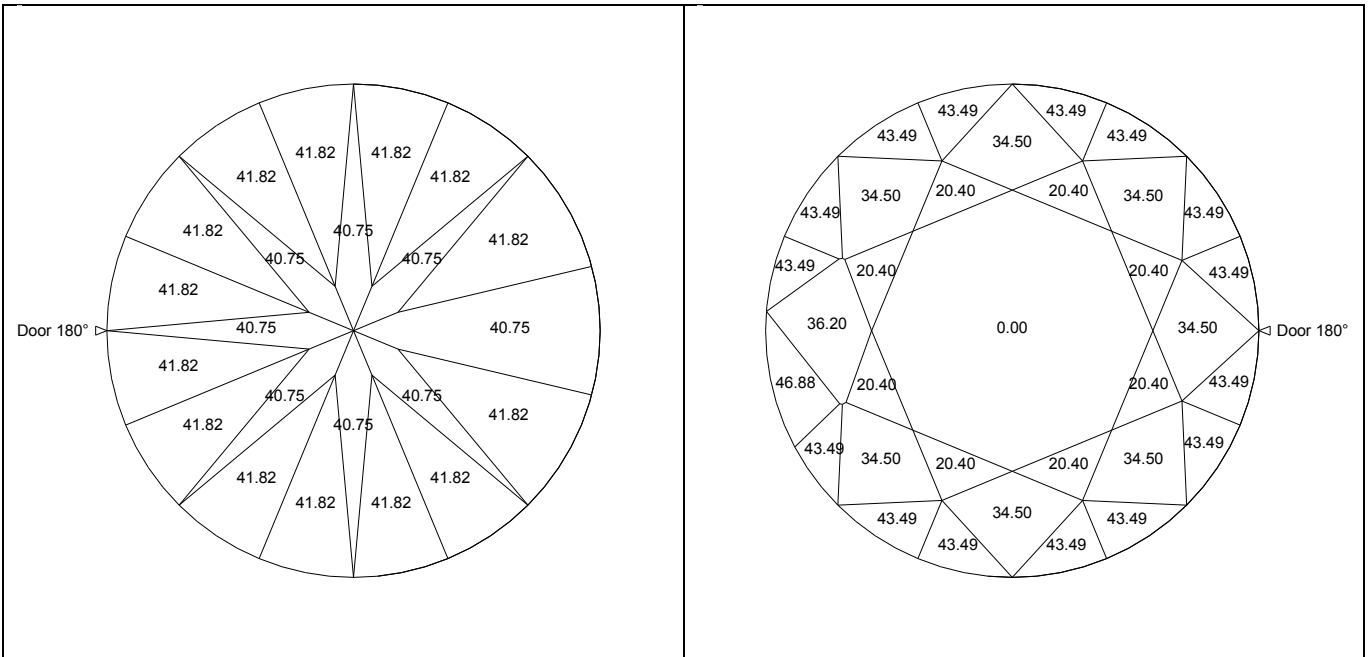


Girdle facets azimuth angles

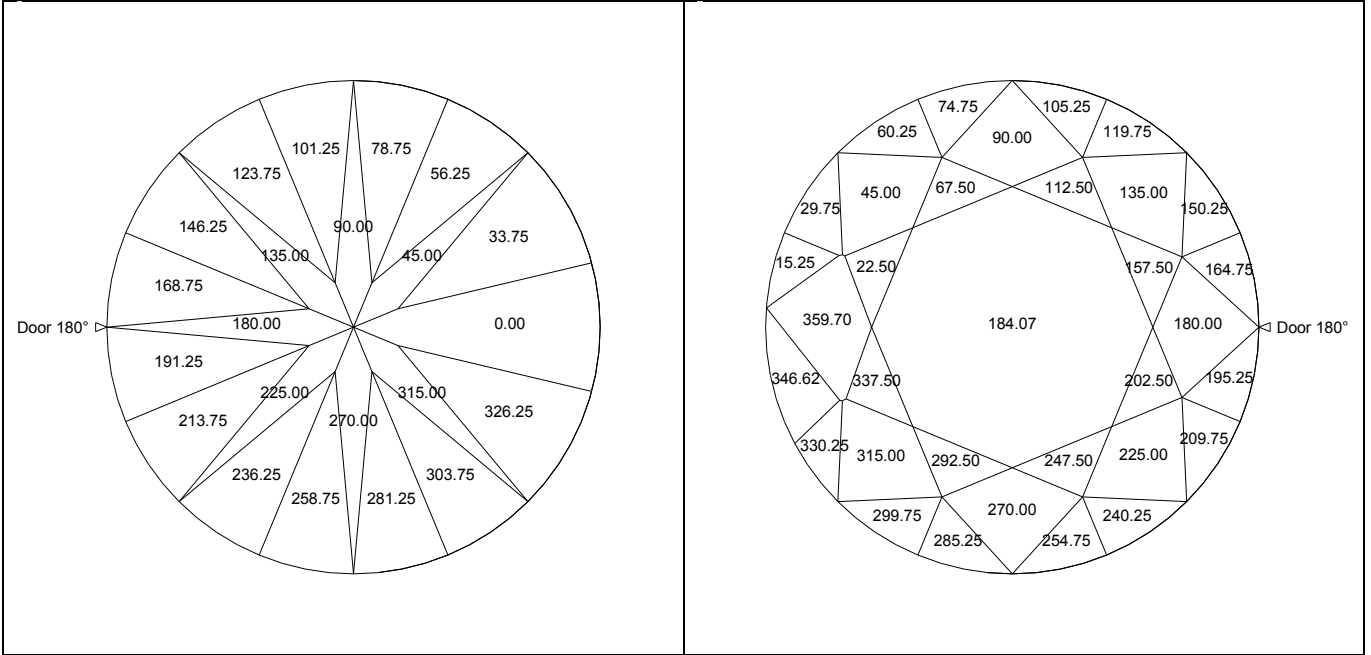


Deviation of girdle facets azimuth angles

All facets slope and azimuth angles without breakdown into groups

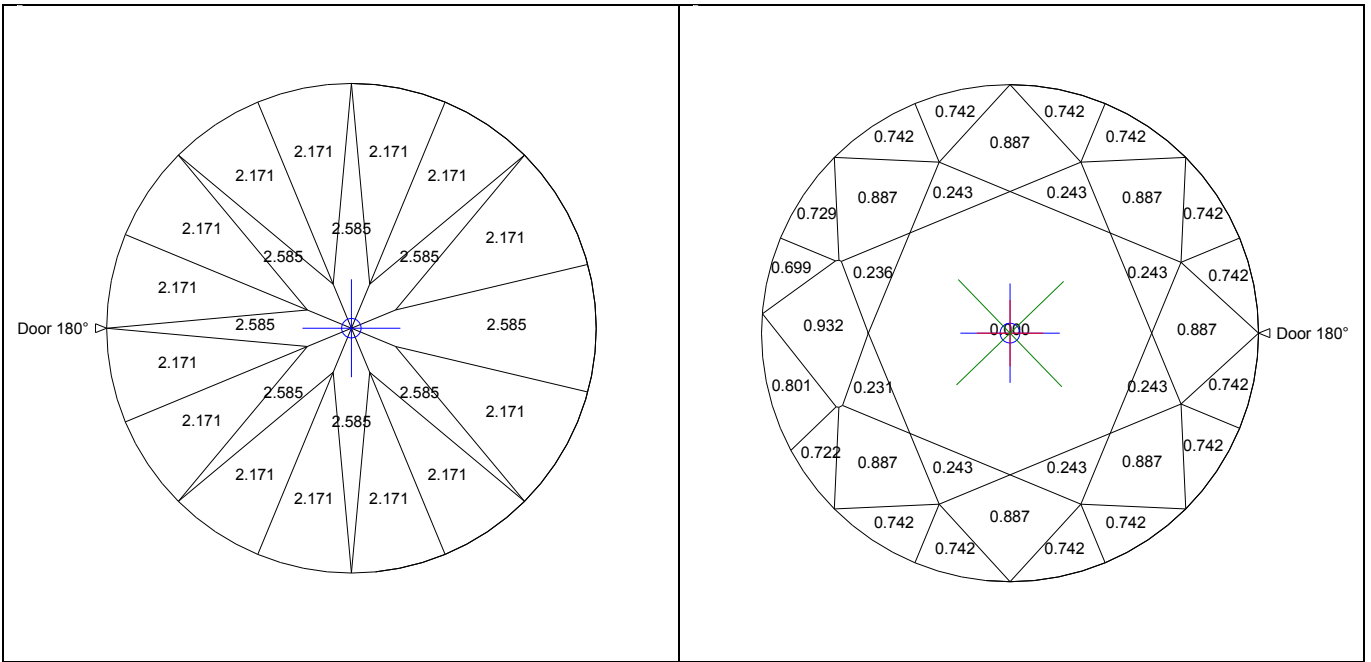


All facets slope angles without breakdown into groups

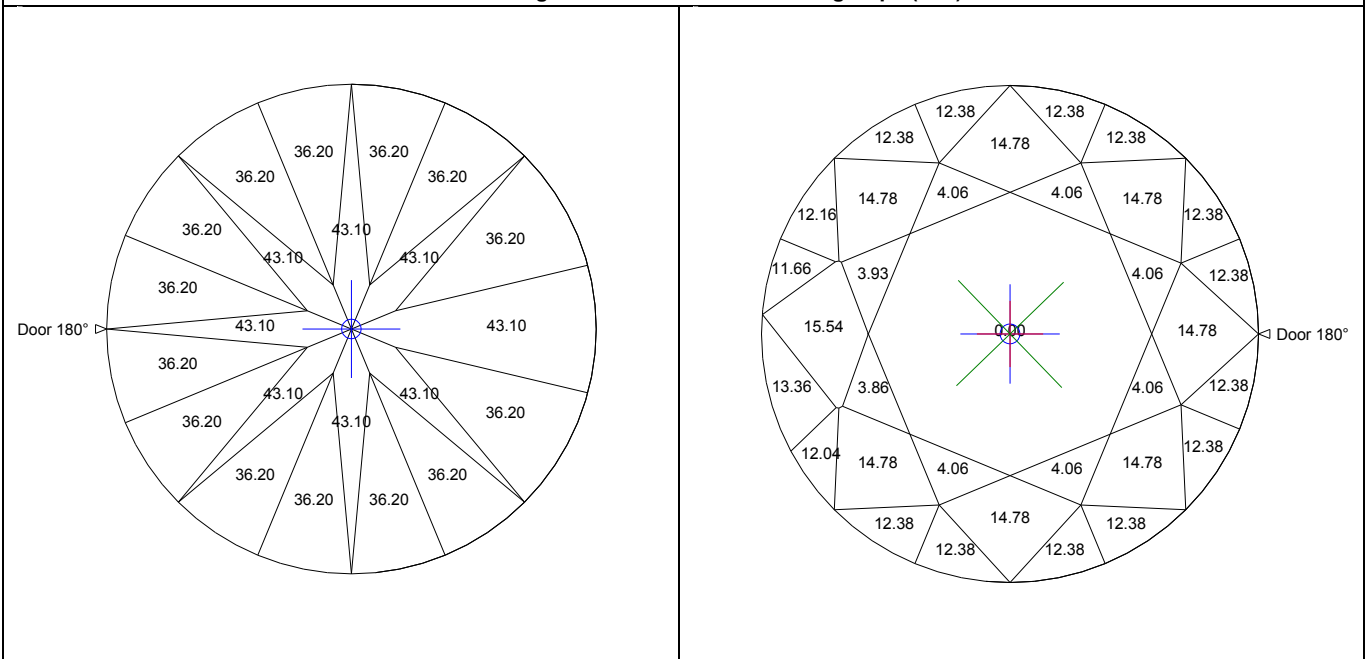


All facets azimuth angles without breakdown into groups

All facets heights without breakdown into groups

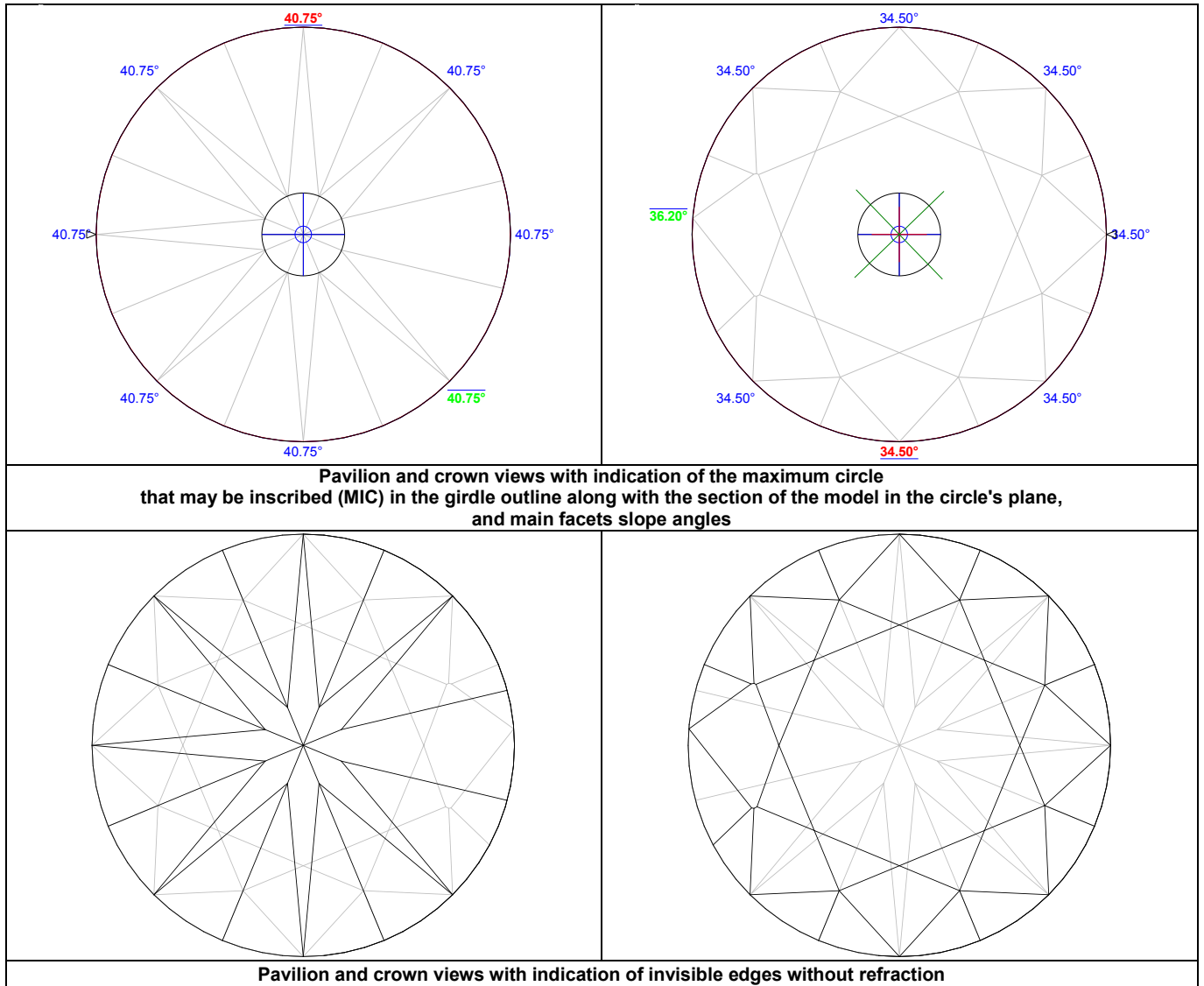


All facets heights without breakdown into groups (mm)



All facets heights without breakdown into groups (%)

Additional illustrations



Girdle center



Culet center



Table center



MIC center