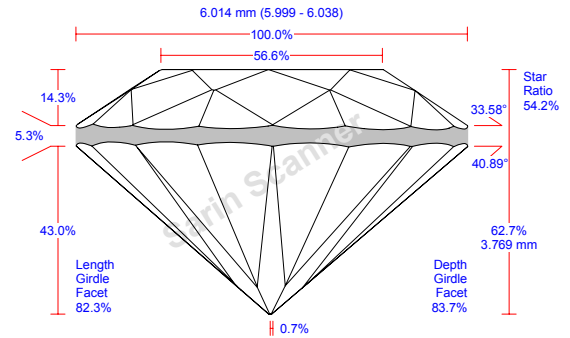


DIAMCALC FULL REPORT

Polished Brilliant

General information

Model	Sample Sarin Model
Expert name	Sample Expert Name
Report date	12/09/2006
Real weight, ct	0.86
Calculated weight, ct	0.86, 0.8662
Spread	-0.05 ct, -6.74%
Appraiser title	AGS_2005
Overall cut quality	3
Overall symmetry quality	PR
Total height	3.769 mm, 62.66 %
Total height quality	N/A
Crown painting	Absent
Crown painting type	
Pavilion painting	Absent
Pavilion painting type	
Girdle-Culet offset (by table axis)	0.37 ± 0.20 %, 0.007 ± 0.011
Girdle-Table offset (by table axis)	0.12 ± 0.18 %, 0.023 ± 0.012
Culet-Table offset (by table axis)	0.44 ± 0.22 %, 0.026 ± 0.013
Girdle to table-culet line offset	0.10 %, 0.006 mm
EF / Nat	No



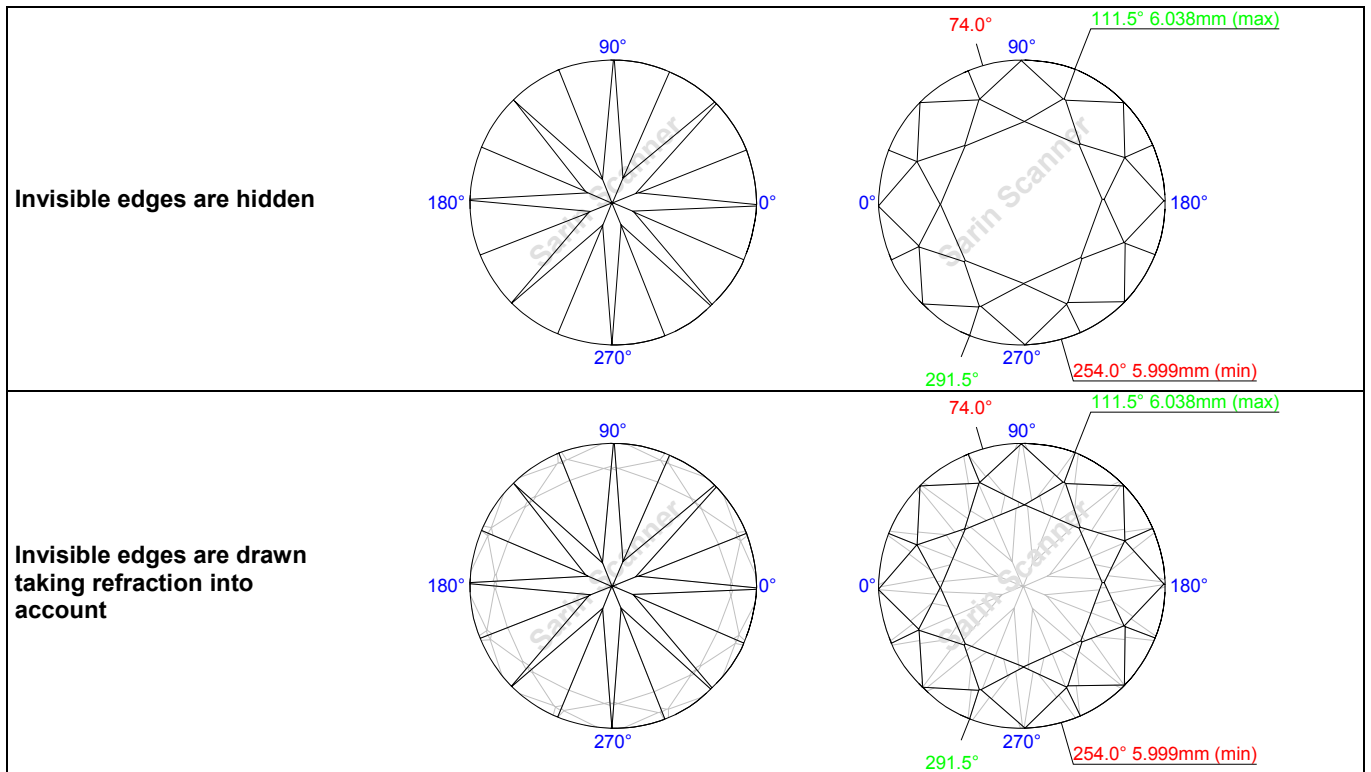
Main parameters

Parameter		Avg	Min	Max	Dev	Cut	Sym
Diameter	mm	6.014	5.999	6.038	0.65 %	N/A	EX
Crown angle	°	33.58	33.35	33.70	0.35	N/A	EX
Crown height	%	14.33	14.00	14.58	0.58	N/A	EX
Crown height	mm	0.862	0.842	0.877	0.035	-	-
Crown height at girdle minima	%	15.10	14.85	15.45	0.59	N/A	-
Crown height at girdle minima	mm	0.908	0.893	0.929	0.036	-	-
Pavilion angle	°	40.89	40.57	41.14	0.58	N/A	EX
Pavilion depth	%	43.00	42.69	43.28	0.59	N/A	EX
Pavilion depth	mm	2.586	2.568	2.603	0.035	-	-
Pavilion depth at girdle minima	%	43.83	43.53	44.12	0.58	N/A	-
Pavilion depth at girdle minima	mm	2.636	2.618	2.653	0.035	-	-
Lower girdle facets angle	°	41.86	41.54	42.19	0.65	-	EX
Lower girdle facets height	%	37.02	36.07	37.72	1.66	-	VG
Lower girdle facets height	mm	2.226	2.169	2.269	0.100	-	-
Depth Girdle Facet	%	83.70	80.99	85.93	4.94	N/A	-
Length Girdle Facet	%	82.31	79.55	84.57	5.01	-	-
Upper girdle facets angle	°	40.58	39.55	41.63	2.08	-	GD
Upper girdle facets height	%	9.97	9.66	10.24	0.58	-	-
Upper girdle facets height	mm	0.599	0.581	0.616	0.035	-	-
Star facets angle	°	21.56	20.82	22.41	1.59	-	VG
Star :							
Upper ratio	%	54.18 :	51.53 :	55.60:	4.07	-	PR
Table	%	45.82	48.47	44.40			
Table	mm	56.61	56.25	56.85	0.59	N/A	EX
Culet	%	3.405	3.383	3.419	0.036	-	-
Culet	mm	0.68	0.54	0.80	0.26	0	EX
Culet	mm	0.041	0.033	0.048	0.016	-	-
Twist	°	0.74	0.01	1.66	1.65	-	EX
Girdle thickness: Bezel	%	5.30	4.91	5.93	1.02	3	EX
Girdle thickness: Bone	%	5.34	4.76	5.63	0.87		EX
Girdle thickness: Valley	%	3.74	3.24	4.09	0.85	0	EX
Girdle thickness: Bezel	mm	0.319	0.295	0.357	0.061		
Girdle thickness: Bone	mm	0.321	0.286	0.339	0.053		
Girdle thickness: Valley	mm	0.225	0.195	0.246	0.051		
Crown painting	°	-0.26		1.89			
Crown painting	notches	0.1		0.5			
Pavilion painting	°	-0.03		-1.63			
Pavilion painting	notches	0.0		0.4			
Measurement as per OctoNus theory:							
Crown angle	°	33.58	33.50	33.62	0.12	-	-
Pavilion angle	°	40.89	40.86	40.92	0.06	-	-
Culet through bezel	°	10.59				N/A	-
Fish eye effect	°	8.65				N/A	-
Girdle to MIC	mm	0.007				-	-

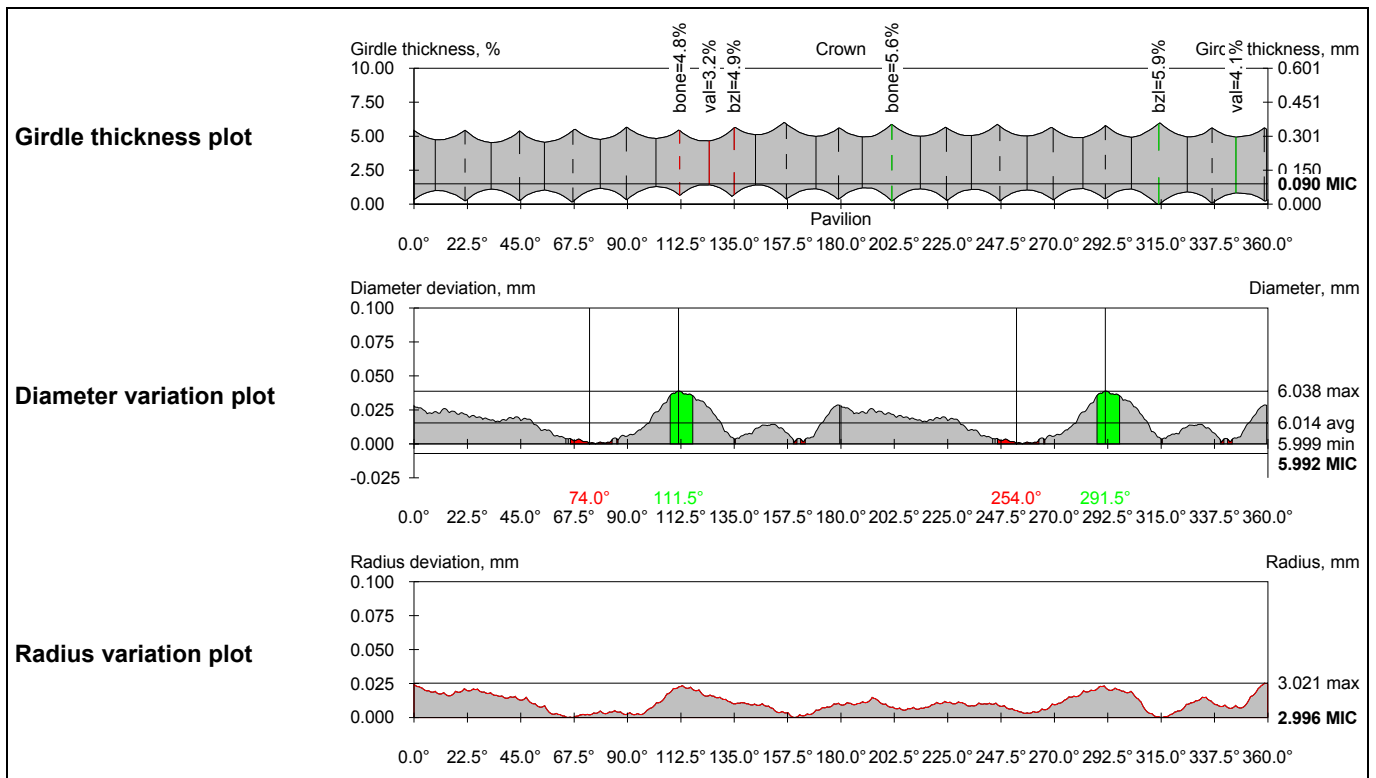
Detailed parameters

Parameter		1	2	3	4	5	6	7	8
Diameter	mm	6.027	6.017	6.005	6.004				
Crown angle	°	33.64	33.70	33.55	33.67	33.35	33.53	33.67	33.55
Crown height	%	14.36	14.58	14.32	14.32	14.38	14.32	14.34	14.00
Crown height	mm	0.864	0.877	0.861	0.861	0.865	0.861	0.862	0.842
Crown height at girdle minima	%	15.24	15.45	15.43	15.21	15.14	15.31	14.85	14.99
		15.03	14.98	14.92	14.96	15.07	15.05	15.02	15.04
Crown height at girdle minima	mm	0.916	0.929	0.928	0.915	0.911	0.921	0.893	0.901
		0.904	0.901	0.897	0.900	0.906	0.905	0.903	0.905
Crown azimuth	°	359.8	44.5	89.6	134.0	179.3	223.4	268.8	314.4
Crown azimuth deviation from ideal	°	-0.17	-0.47	-0.37	-0.95	-0.74	-1.65	-1.18	-0.64
Pavilion angle	°	40.57	40.67	40.84	41.08	41.14	41.08	41.00	40.70
Pavilion depth	%	42.93	42.99	43.06	43.28	43.08	42.99	43.01	42.69
Pavilion depth	mm	2.582	2.585	2.590	2.603	2.591	2.586	2.587	2.568
Pavilion depth at girdle minima	%	43.70	43.81	43.75	43.87	44.00	44.12	44.11	43.83
		43.90	43.82	43.78	43.74	43.85	43.82	43.60	43.53
Pavilion depth at girdle minima	mm	2.628	2.635	2.631	2.639	2.646	2.653	2.653	2.636
		2.640	2.636	2.633	2.631	2.637	2.635	2.622	2.618
Pavilion azimuth	°	0.0	44.5	89.9	134.7	178.7	225.0	270.3	313.3
Pavilion azimuth deviation from ideal	°	0.00	-0.47	-0.06	-0.30	-1.28	0.01	0.34	-1.73
Lower girdle facets angle	°	41.57	41.59	41.68	41.83	41.88	41.97	42.19	42.11
		42.11	42.16	42.04	42.03	41.80	41.69	41.61	41.54
Lower girdle facets height	%	36.07	37.08	36.47	36.62	36.95	37.31	36.11	36.77
		37.72	36.90	37.40	37.02	37.31	37.49	37.32	37.72
Lower girdle facets height	mm	2.169	2.230	2.193	2.202	2.222	2.244	2.172	2.211
		2.269	2.219	2.249	2.226	2.244	2.255	2.244	2.268
Lower girdle facets azimuth	°	10.4	33.1	55.8	78.6	101.0	123.5	145.3	167.6
		190.1	213.2	236.1	258.6	280.0	302.1	324.9	347.3
Lower girdle facets azimuth deviation from ideal	°	-0.81	-0.61	-0.49	-0.18	-0.25	-0.25	-0.95	-1.13
		-1.16	-0.53	-0.17	-0.15	-1.28	-1.63	-1.39	-1.46
Depth Girdle Facet	%	81.77	83.88	82.56	82.61	83.28	83.83	80.99	83.14
		85.16	83.41	84.67	83.89	84.36	84.85	84.84	85.93
Length Girdle Facet	%	80.26	82.39	81.04	81.10	81.98	82.54	79.55	81.74
		83.73	81.96	83.30	82.51	83.21	83.71	83.46	84.57
Upper girdle facets angle	°	41.11	41.10	41.19	41.06	40.35	40.66	40.04	40.19
		39.55	39.70	39.83	40.28	40.26	41.01	41.27	41.63
Upper girdle facets height	%	9.78	10.06	10.23	9.94	9.95	10.13	9.68	9.89
		10.24	9.95	10.11	9.95	9.97	9.66	9.93	9.98
Upper girdle facets height	mm	0.588	0.605	0.615	0.598	0.598	0.609	0.582	0.595
		0.616	0.599	0.608	0.599	0.600	0.581	0.597	0.600
Upper girdle facets azimuth	°	10.8	33.4	56.2	78.1	100.5	123.5	144.8	168.9
		189.6	213.4	234.4	258.2	279.2	303.3	326.0	346.7
Upper girdle facets azimuth deviation from ideal	°	-0.49	-0.33	-0.08	-0.67	-0.80	-0.30	-1.47	0.11
		-1.61	-0.31	-1.82	-0.57	-2.10	-0.44	-0.29	-2.06
Star facets angle	°	21.92	21.66	22.41	21.48	20.82	21.09	21.53	21.54
Star : Upper ratio	%	55.60 : 44.40	55.21 : 44.79	53.61 : 46.39	54.59 : 45.41	51.53 : 48.47	53.08 : 46.92	54.98 : 45.02	54.82 : 45.18
Star facets azimuth	°	22.8	67.5	113.1	157.1	200.1	245.5	291.5	336.2
Star facets azimuth deviation from ideal	°	0.32	0.04	0.61	-0.36	-2.41	-1.96	-0.97	-1.27
Table	%	56.55	56.25	56.78	56.85				
Table	mm	3.401	3.383	3.415	3.419				
Twist	°	0.17	0.01	0.31	0.65	0.55	1.66	1.53	1.09
Girdle Bezel	%	5.36	5.10	5.31	4.91	5.21	5.33	5.26	5.93
Girdle Bone	%	5.18	5.24	4.76	5.52	5.63	5.48	5.39	5.52
Girdle Valley	%	3.73	3.41	3.50	3.59	3.53	3.24	3.71	3.85
		3.74	3.87	3.97	3.97	3.75	3.80	4.05	4.09
Girdle Bezel	mm	0.323	0.307	0.320	0.295	0.313	0.320	0.316	0.357
Girdle Bone	mm	0.312	0.315	0.286	0.332	0.339	0.330	0.324	0.332
Girdle Valley	mm	0.224	0.205	0.211	0.216	0.212	0.195	0.223	0.232
		0.225	0.233	0.239	0.239	0.226	0.229	0.243	0.246
Crown painting	°	-0.32	-0.14	0.39	0.29	-0.42	-0.66	-0.52	-0.85
		-0.87	-1.34	-0.17	-0.61	-0.92	-0.20	0.35	1.89
Crown painting, notches	°	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2
		0.2	0.4	0.0	0.2	0.2	0.1	0.1	0.5
Pavilion painting	°	-0.81	0.14	-0.02	0.12	-0.19	-0.06	-0.64	-0.16
		0.12	0.55	-0.18	0.49	-1.63	-0.10	0.34	1.46
Pavilion painting, notches	°	0.2	0.0	0.0	0.0	0.1	0.0	0.2	0.0
		0.0	0.1	0.0	0.1	0.4	0.0	0.1	0.4
Measurement as per OctoNus theory:									
Crown angle	°	33.50	33.62	33.61	33.61				
Pavilion angle	°	40.86	40.87	40.92	40.89				

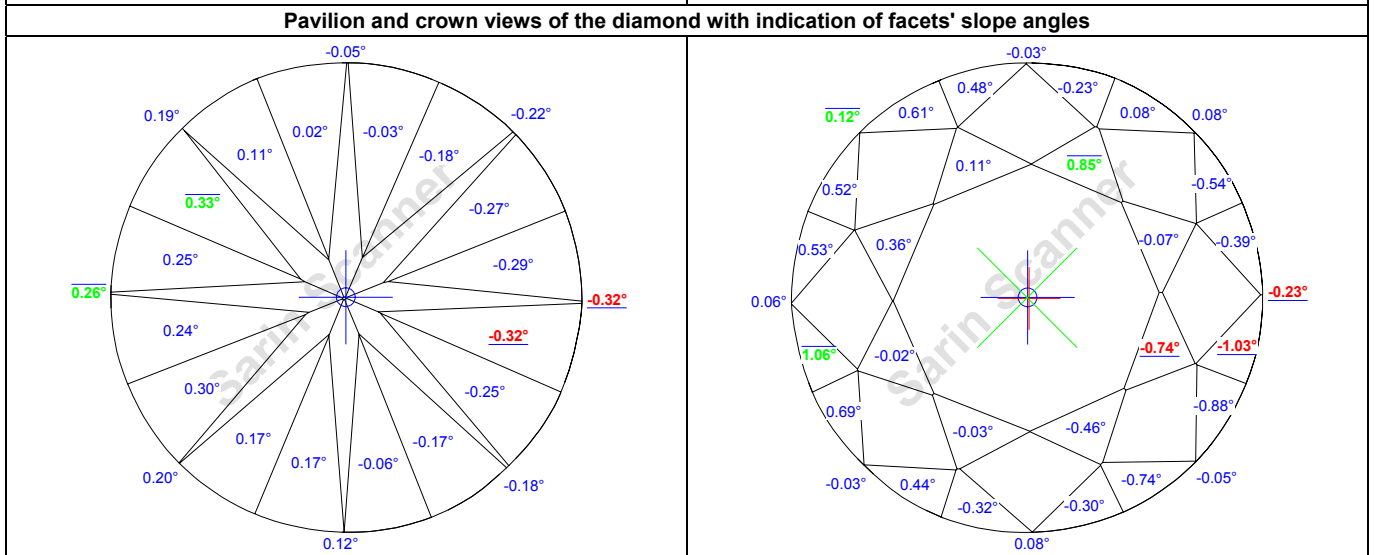
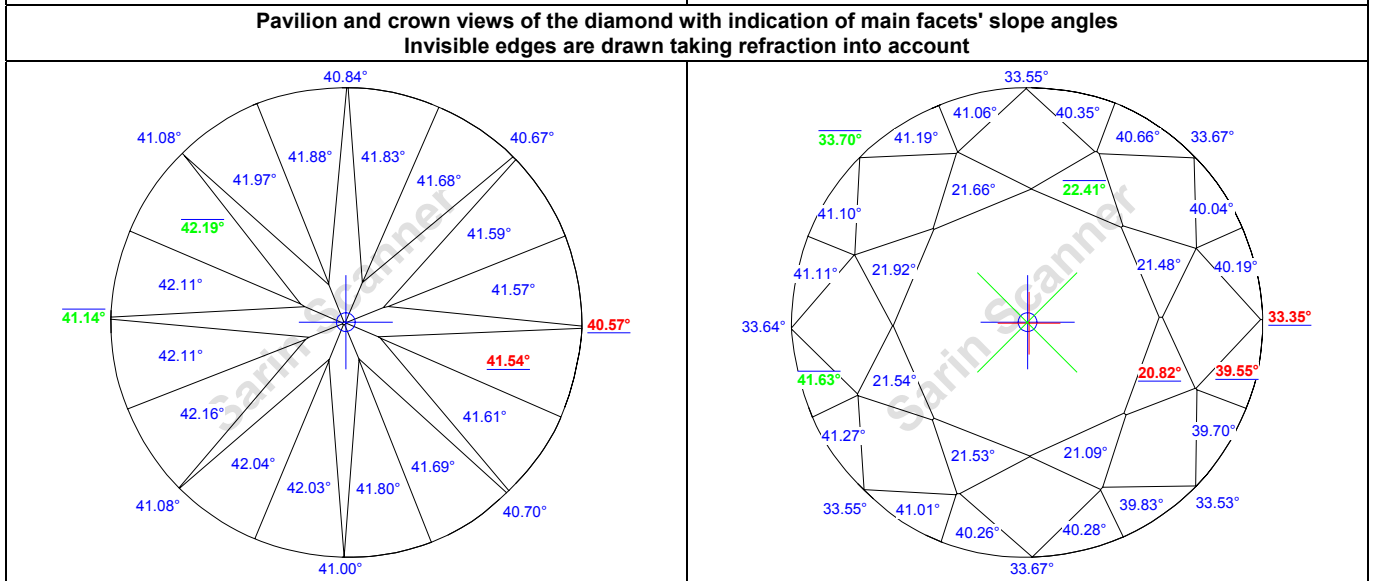
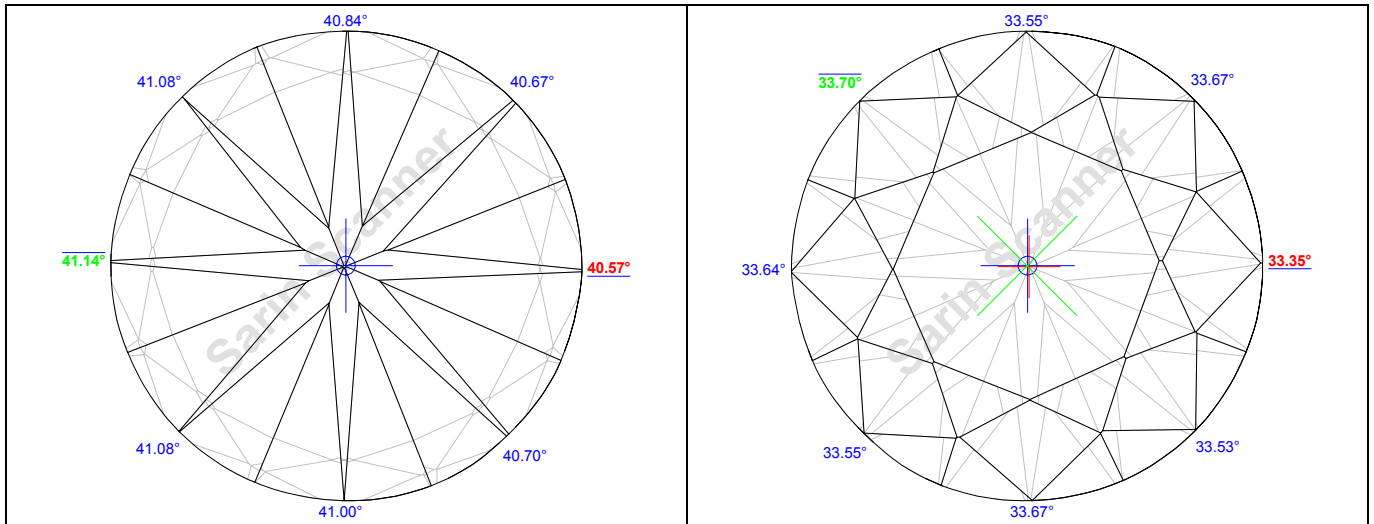
Crown and pavilion views of the diamond with indication of the diameter minimum and maximum

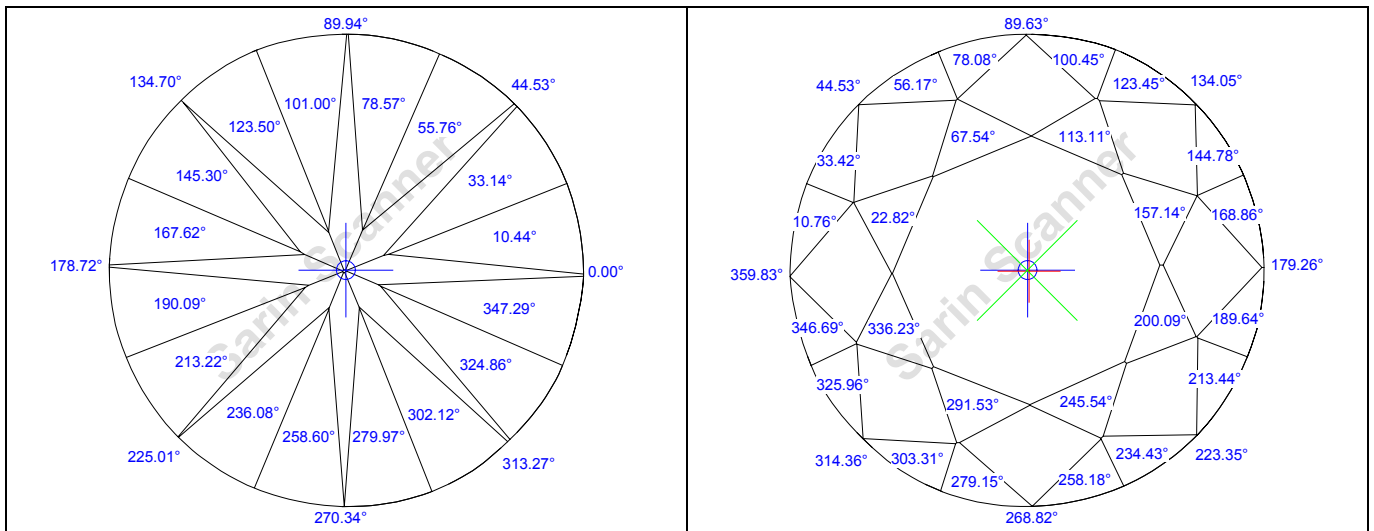


Plots

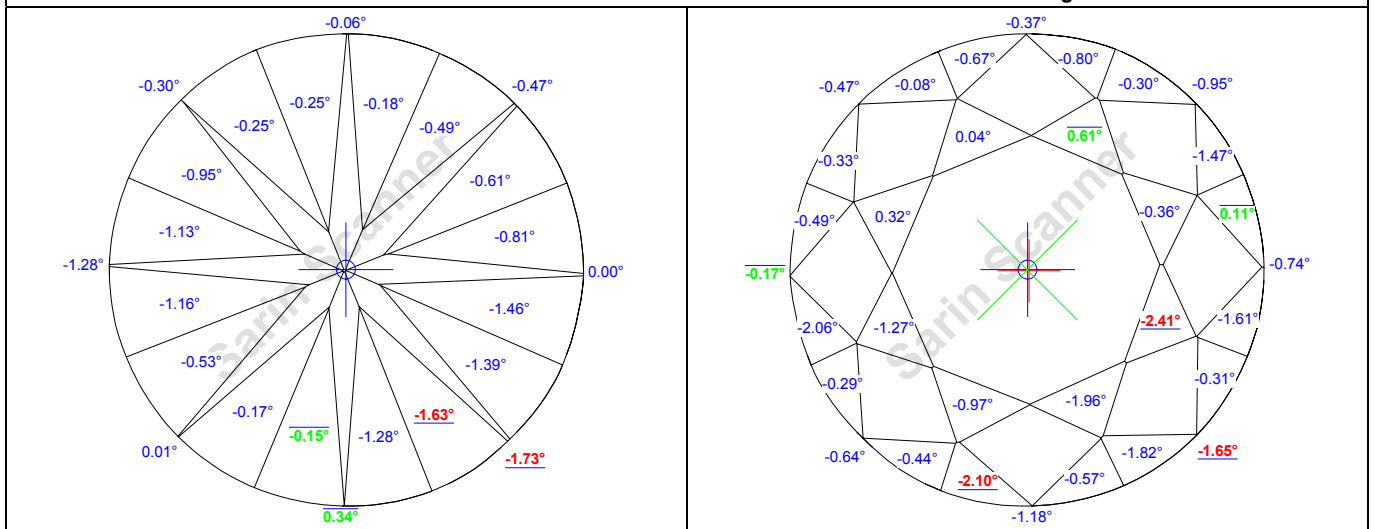


Facets' azimuth and slope angles



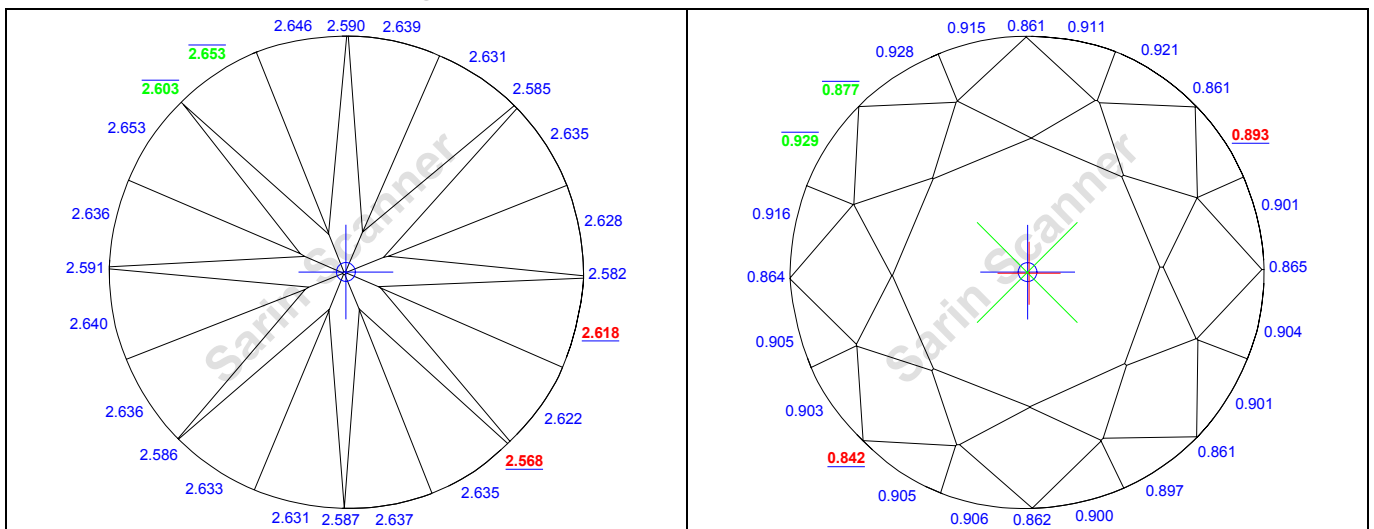


Pavilion and crown views of the diamond with indication of facets' azimuth angles

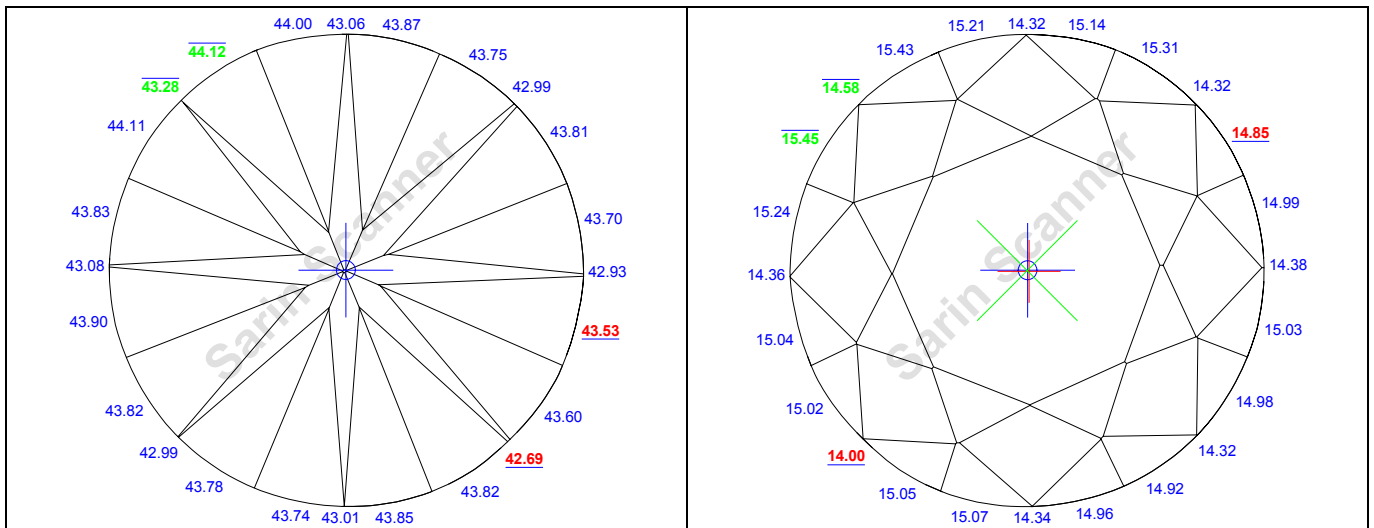


Pavilion and crown views of the diamond with indication of deviation of facets' azimuth angles from their ideal positions for the round brilliant

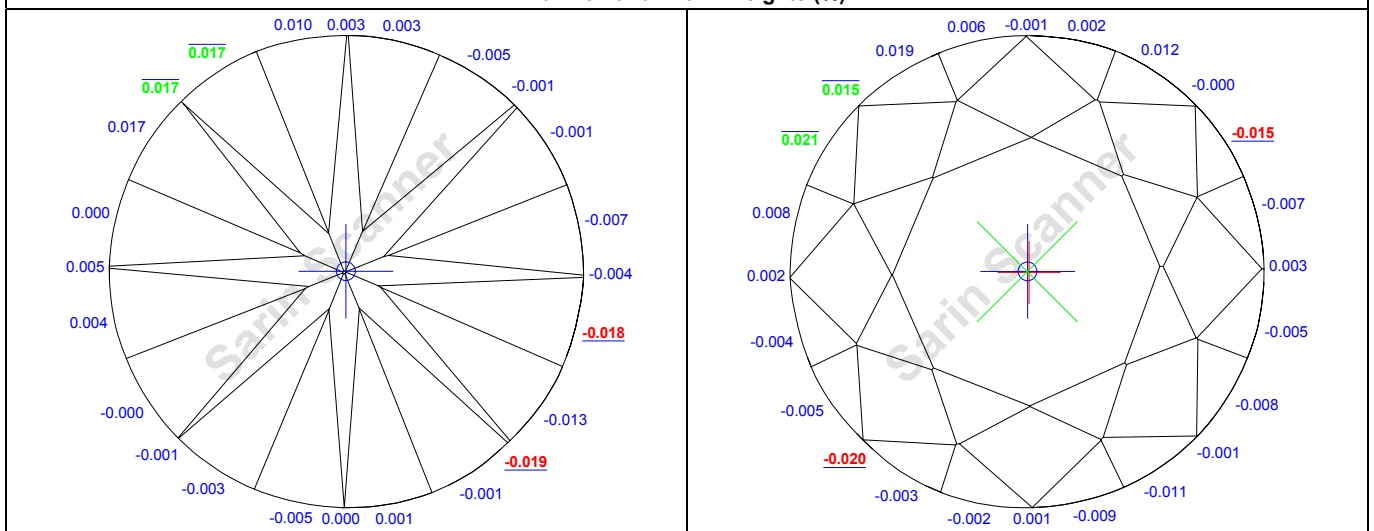
Pavilion and Crown heights



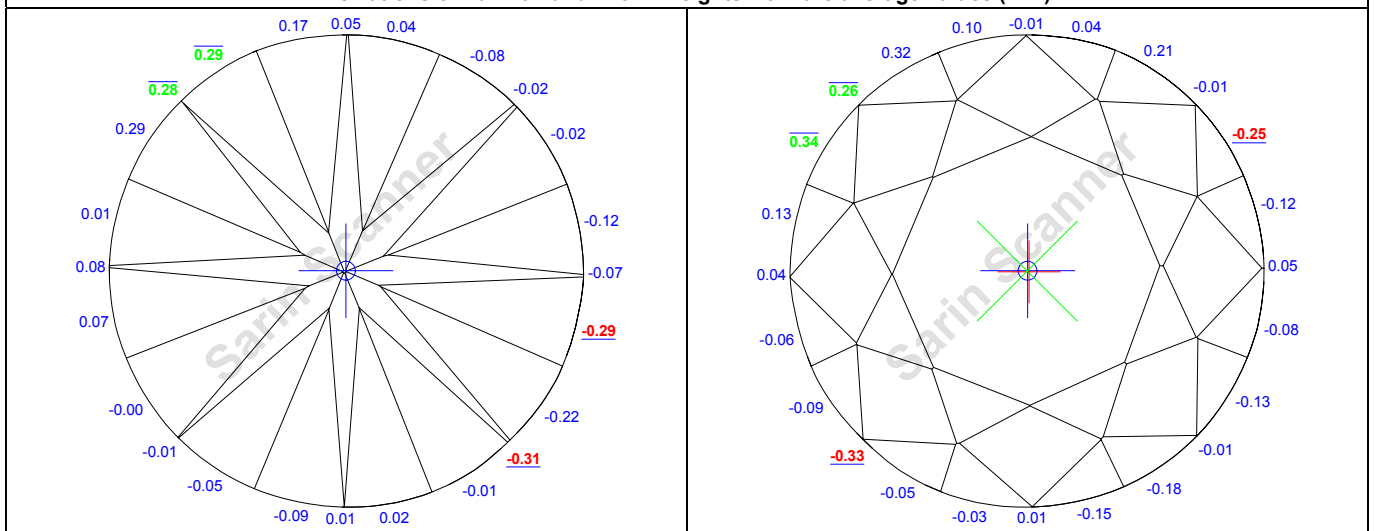
Pavilion and Crown heights (mm)



Pavilion and Crown heights (%)

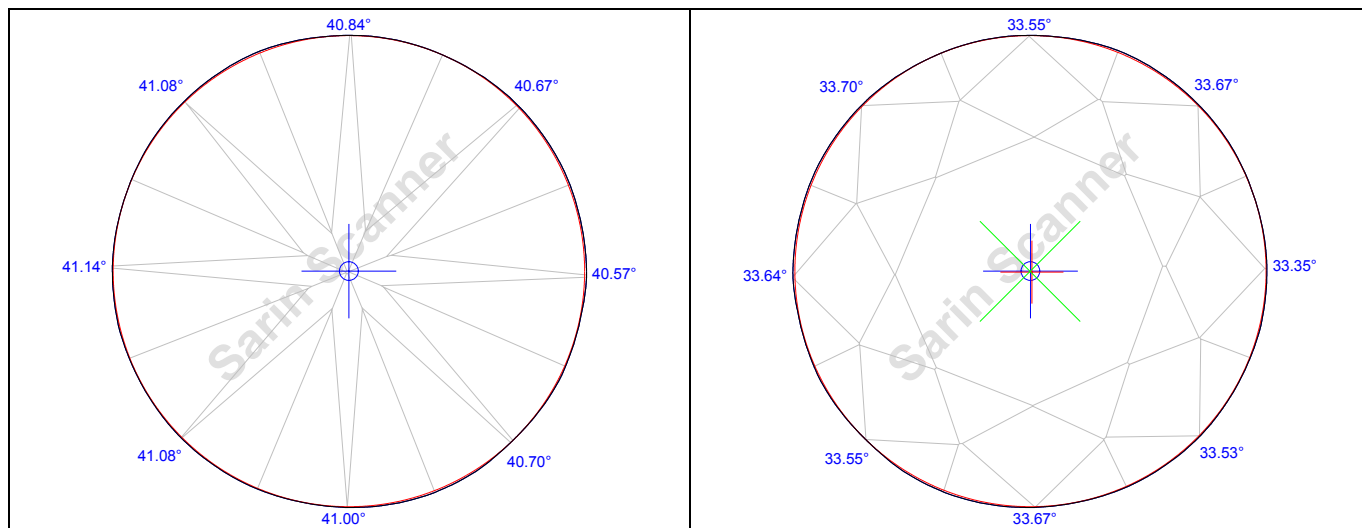


Deviations of Pavilion and Crown heights from the average values (mm)

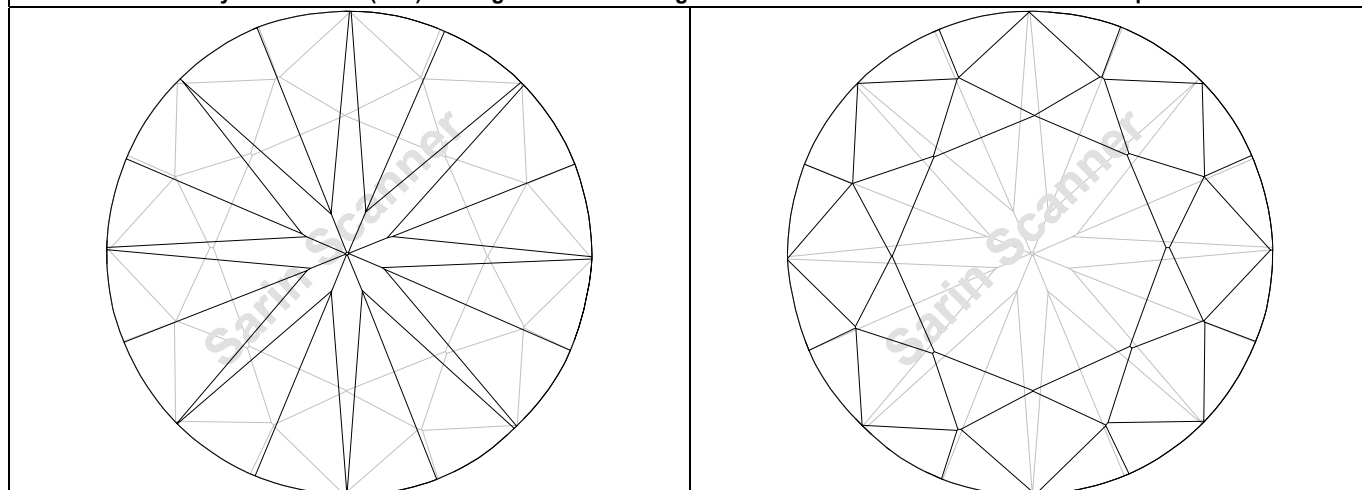


Deviations of Pavilion and Crown heights from the average values (%)




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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