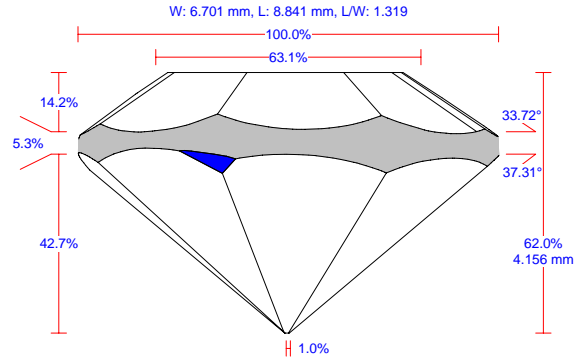


# HELIUM FULL REPORT

# Semi-polished Rounded Fancy

## General information

Model: Simple  
 Expert name: Makoed A.G.  
 Report date: 14.08.2007  
 Real weight, ct:  
 Calculated weight, ct: 1.65, 1.6494  
 Spread: 0.05 ct, 3.12%



## Main parameters

Parameter		Avg	Min	Max	Dev
Diameter	mm	7.836	6.701	8.841	31.94 %, 2.140 mm
Crown height	%	14.16	12.62	15.25	2.63
Crown height	mm	0.949	0.846	1.022	0.176
Crown height at girdle minima	%	16.11	15.86	16.37	0.52
Crown height at girdle minima	mm	1.080	1.062	1.097	0.035
Crown curve angle	°	34.17	33.95	34.38	0.43
Crown curve height	%	15.07	14.88	15.25	0.38
Crown curve height	mm	1.010	0.997	1.022	0.025
Crown point angle	°	32.86	32.43	33.30	0.88
Crown point height	%	13.08	12.62	13.54	0.92
Crown point height	mm	0.877	0.846	0.907	0.062
Crown head angle	°	N/A	N/A	N/A	N/A
Crown head height	%	N/A	N/A	N/A	N/A
Crown head height	mm	N/A	N/A	N/A	N/A
Crown wing angle	°	33.77	33.23	34.46	1.23
Crown wing height	%	14.26	13.74	14.58	0.84
Crown wing height	mm	0.955	0.921	0.977	0.056
Pavilion depth	%	42.72	41.61	44.01	2.40
Pavilion depth	mm	2.862	2.788	2.949	0.161
Pavilion depth at girdle minima	%	44.23	44.23	44.23	0.00
Pavilion depth at girdle minima	mm	2.964	2.964	2.964	0.000
Pavilion curve angle	°	40.68	40.31	41.05	0.73
Pavilion curve height	%	42.61	42.29	42.92	0.64
Pavilion curve height	mm	2.855	2.834	2.876	0.043
Pavilion point angle	°	33.17	32.65	33.69	1.04
Pavilion point height	%	42.87	42.55	43.19	0.64
Pavilion point height	mm	2.873	2.852	2.894	0.043
Pavilion head angle	°	N/A	N/A	N/A	N/A
Pavilion head height	%	N/A	N/A	N/A	N/A
Pavilion head height	mm	N/A	N/A	N/A	N/A
Pavilion wing angle	°	37.68	37.36	37.84	0.48
Pavilion wing height	%	42.63	41.61	43.75	2.14
Pavilion wing height	mm	2.856	2.789	2.932	0.143
Total height	%	62.02			
Total height	mm	4.156			
Table	%	63.07	56.06	70.09	14.03
Table	mm	4.977	3.757	6.197	2.440
Culet	%	0.99	0.74	1.17	0.43
Culet	mm	0.066	0.050	0.078	0.029
Girdle thickness: Bezel	%	5.32	3.86	7.12	3.26
Girdle thickness: Bezel	mm	0.356	0.259	0.477	0.219
Girdle thickness: Valley	%	6.01	4.22	6.85	2.64
Girdle thickness: Valley	mm	0.403	0.283	0.459	0.177

Offset		Distance	Width wise	Length wise
Culet-Table offset by table axis	%	0.85 ± 0.30	0.43	0.74
Culet-Table offset by table axis	mm	0.057 ± 0.020	0.029	0.049
Girdle-Culet offset by table axis	%	0.87 ± 0.28	0.35	0.79
Girdle-Culet offset by table axis	mm	0.058 ± 0.019	0.023	0.053
Girdle-Table offset by table axis	%	0.78 ± 0.26	0.78	0.06
Girdle-Table offset by table axis	mm	0.052 ± 0.017	0.052	0.004
Girdle to table-culet line offset	%	0.71		
Girdle to table-culet line offset	mm	0.048		

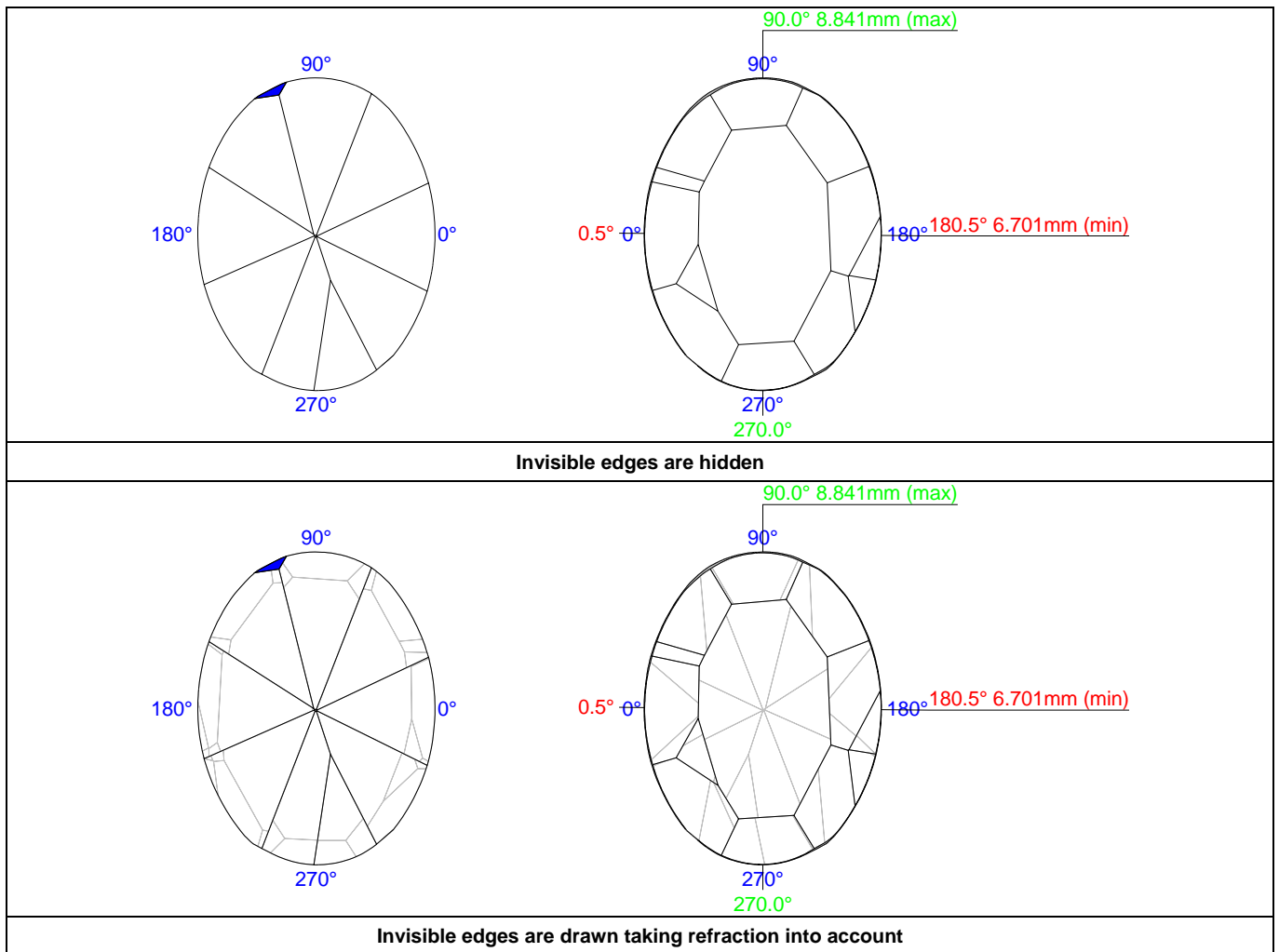
Culet shift ratio by width & length	
Width	6.701 mm, 100%
Width-wise culet shift ratio	3.328 mm, 49.66 %
Length	8.841 mm, 100%
Length-wise culet shift ratio	4.367 mm, 49.40 %

Culet shift ratio by main diameter	
Main diameter (width)	6.701 mm, (100%)
Width-wise culet shift ratio	3.328 mm, 49.66 %
Length-wise culet shift ratio	4.367 mm, 65.17 %

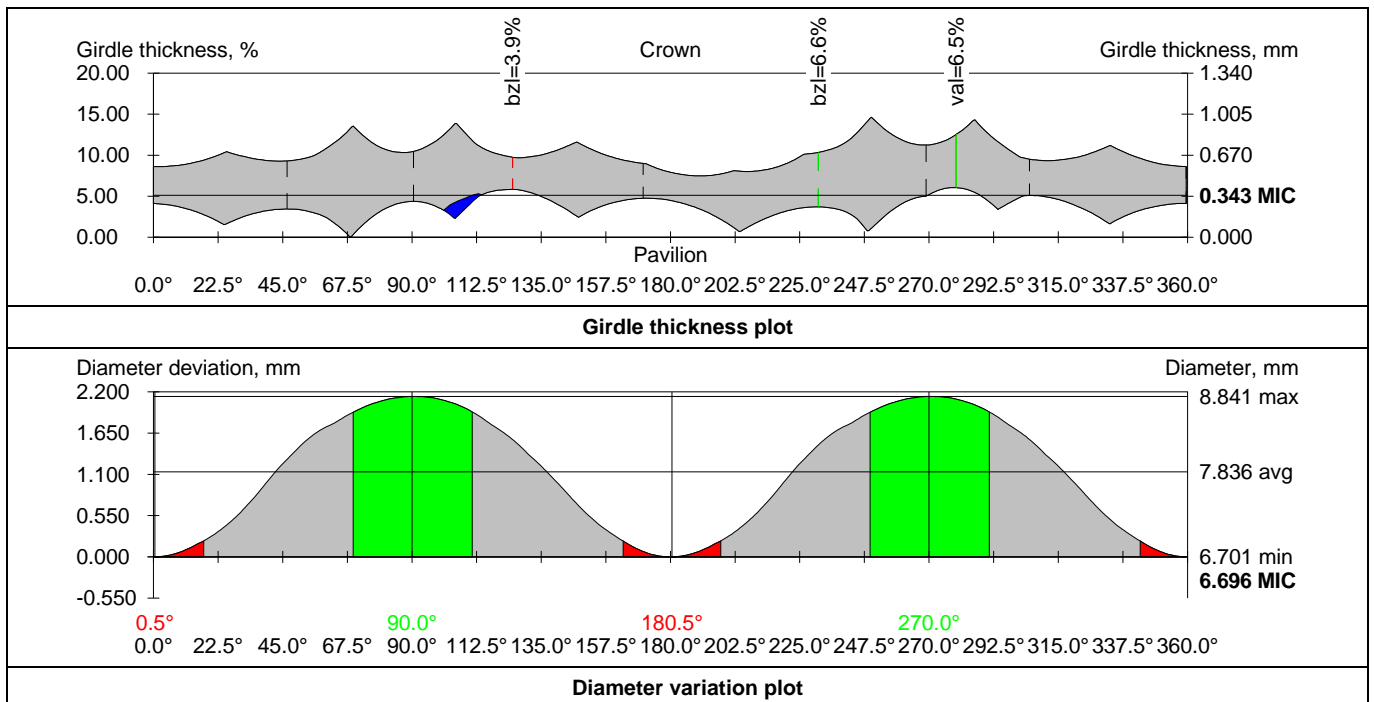
## Detailed parameters

Parameter		1	2	3	4
Crown curve angle	°	33.95	34.38		
Crown curve azimuth	°	1.11	177.60		
Crown curve height	%	15.25	14.88		
Crown curve height	mm	1.022	0.997		
Crown point angle	°	33.30	32.43		
Crown point azimuth	°	84.99	266.53		
Crown point height	%	13.54	12.62		
Crown point height	mm	0.907	0.846		
Crown head angle	°	N/A	N/A		
Crown head azimuth	°	N/A	N/A		
Crown head height	%	N/A	N/A		
Crown head height	mm	N/A	N/A		
Crown wing angle	°	34.46	33.70	33.23	33.70
Crown wing azimuth	°	28.08	144.51	207.66	328.61
Crown wing height	%	14.58	14.18	13.74	14.53
Crown wing height	mm	0.977	0.950	0.921	0.974
Pavilion curve angle	°	40.31	41.05		
Pavilion curve azimuth	°	359.15	175.27		
Pavilion curve height	%	42.29	42.92		
Pavilion curve height	mm	2.834	2.876		
Pavilion point angle	°	32.65	33.69		
Pavilion point azimuth	°	90.53	268.98		
Pavilion point height	%	42.55	43.19		
Pavilion point height	mm	2.852	2.894		
Pavilion head angle	°	N/A	N/A		
Pavilion head azimuth	°	N/A	N/A		
Pavilion head height	%	N/A	N/A		
Pavilion head height	mm	N/A	N/A		
Pavilion wing angle	°	37.36	37.79	37.74	37.84
Pavilion wing azimuth	°	29.88	140.50	212.83	323.98
Pavilion wing height	%	41.61	43.75	41.87	43.27
Pavilion wing height	mm	2.789	2.932	2.806	2.899

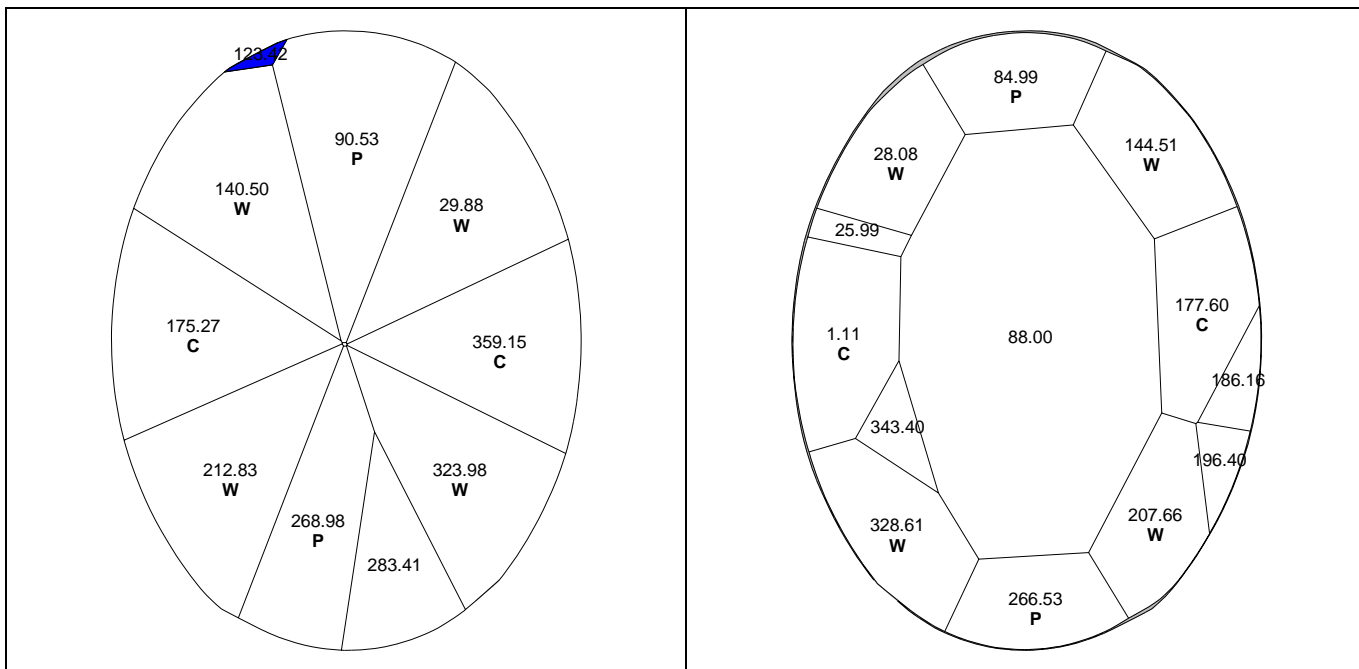
## Pavilion and crown views of the diamond with indication of the diameter minimum and maximum



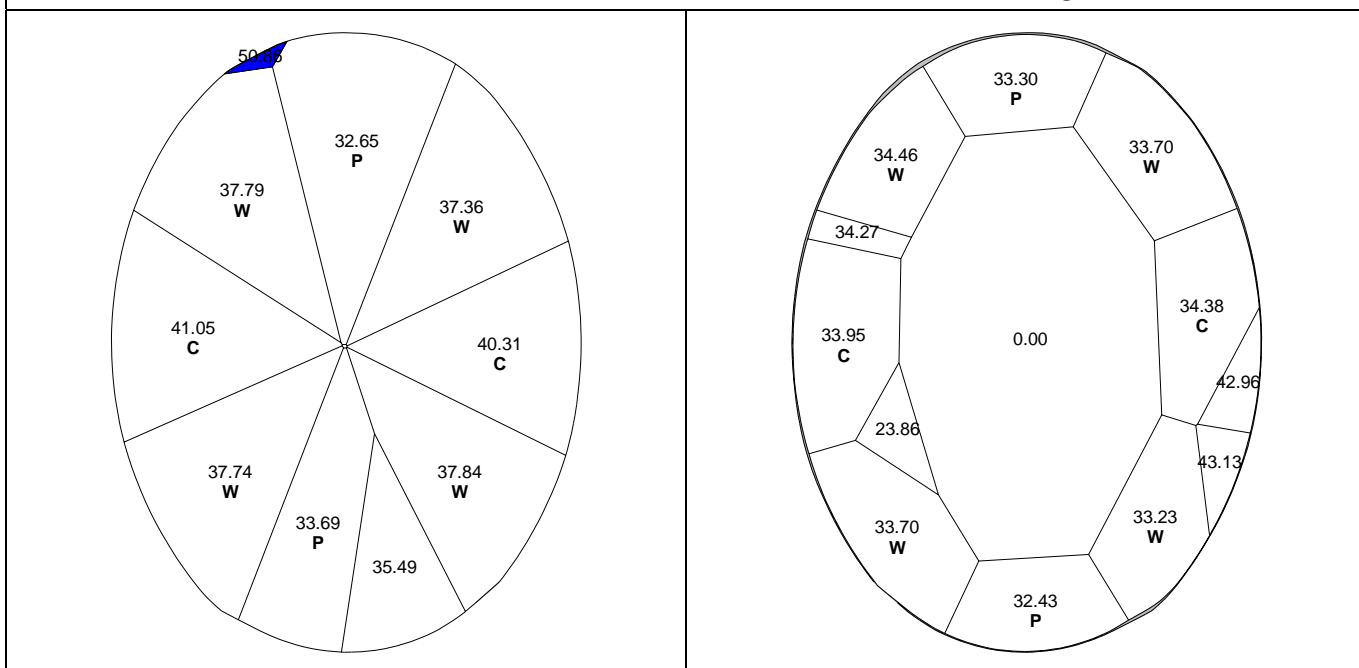
## Plots



# Facets' azimuth and slope angles

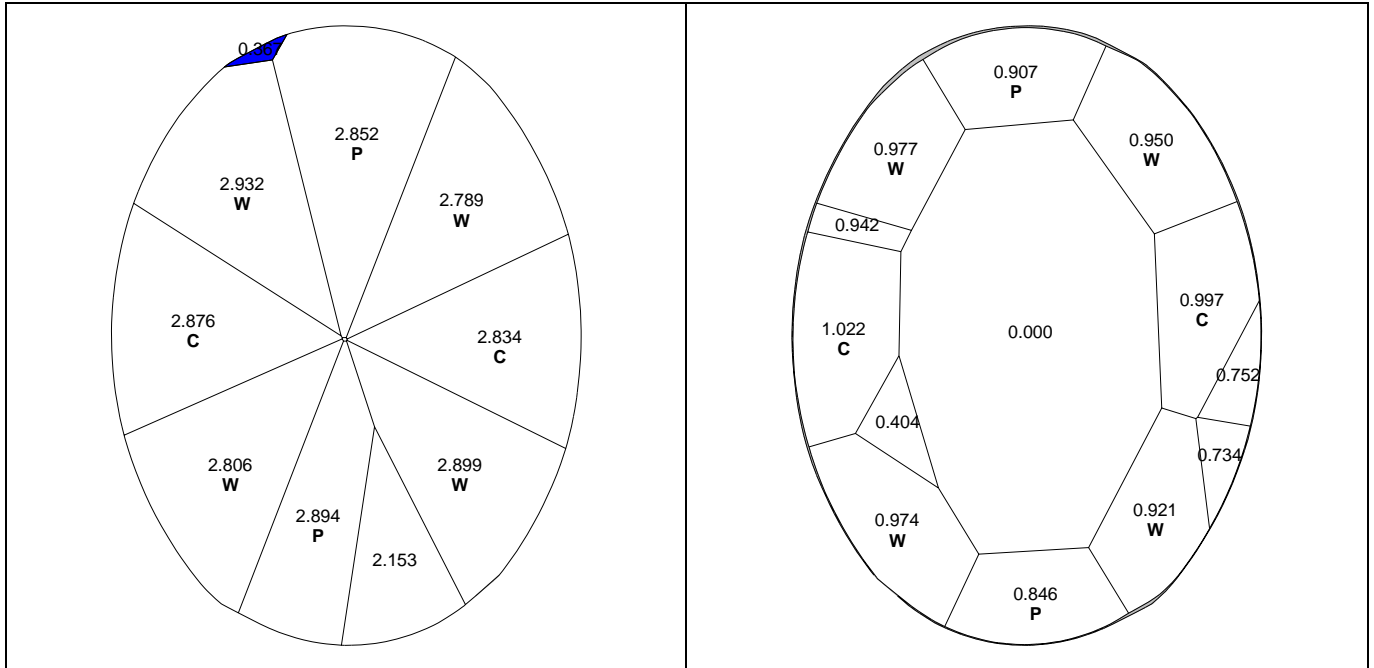


Pavilion and crown views of the diamond with indication of facets' azimuth angles

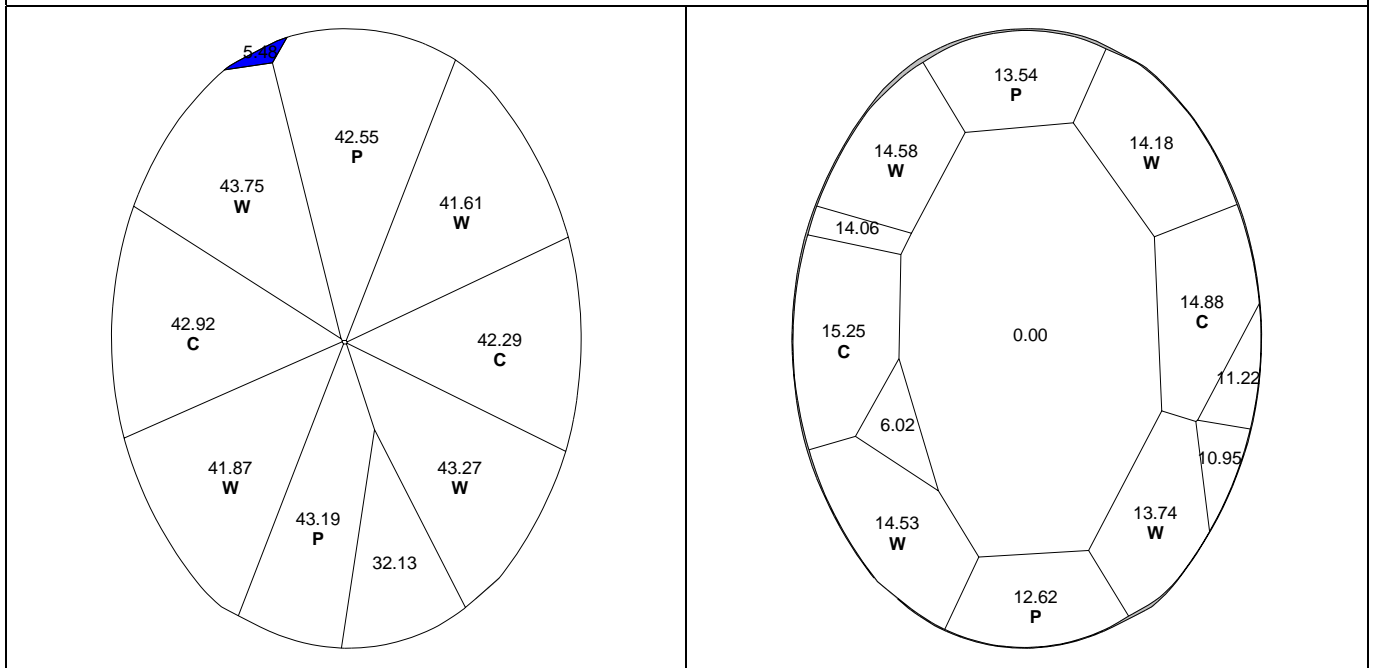


Pavilion and crown views of the diamond with indication of facets' slope angles

# Facets' heights

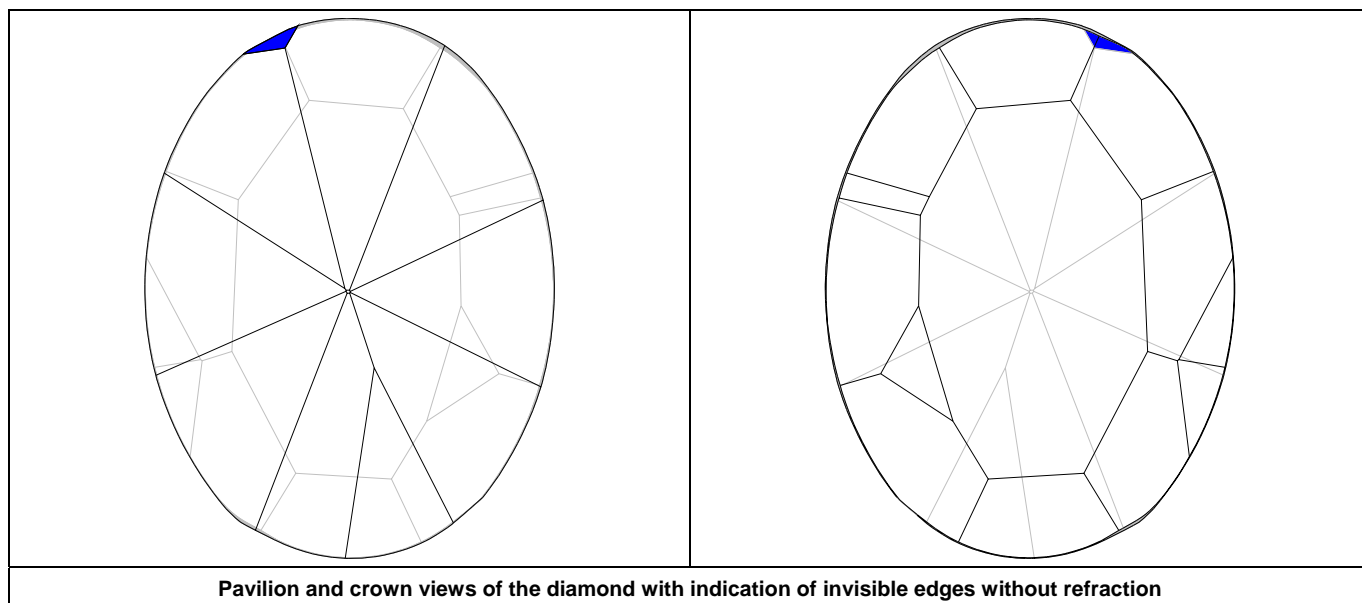





Pavilion and crown views of the diamond with indication of facets' heights (mm)



Pavilion and crown views of the diamond with indication of facets' heights (%)

## Additional illustrations



	Girdle center		Culet center		Table center
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