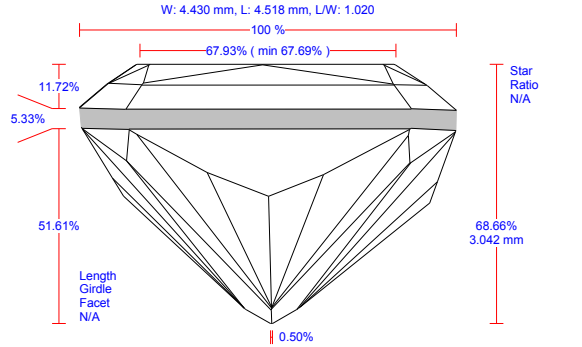
Illustrated Report For Square Radiant

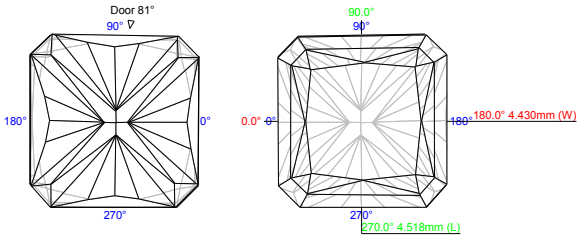
Polished Square Radiant 04.09.2011

Model	Simple
Expert name	N/A
Real weight, ct	
Calculated weight, ct	0.51, 0.5145
Spread	-0.07 ct, -14.73 %
Extra Facet Girdle / Nat	No

Width	Length	Ratio (L/W)	Corner Ratio	Diameter Minimum	Diameter Maximum
4.430 mm	4.518 mm	1.020	1.005	4.430 mm	5.584 mm

Total height	Crown height: Side	Pavilion height: Side	Table: Side	Girdle: Side	Culet
3.042 mm 68.66 %	0.519 mm	2.286 mm	3.039 mm	0.236 mm	0.022 mm



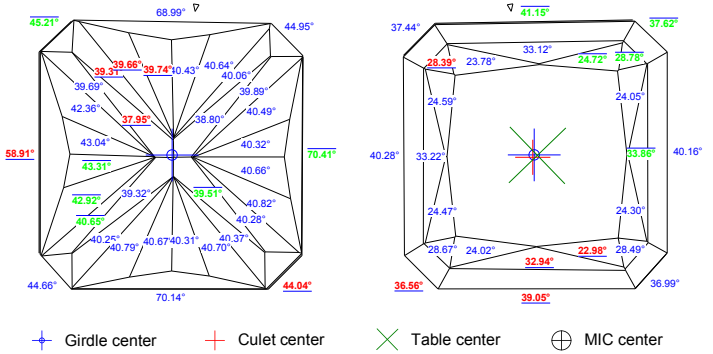


Appraiser title	N/A
Overall cut quality	N/A
Symmetry appraiser title	Symmetry
Overall symmetry quality	N/A
Model building info	The model is built correctly

Color	
Clarity	
Polish	
Fluorescence	

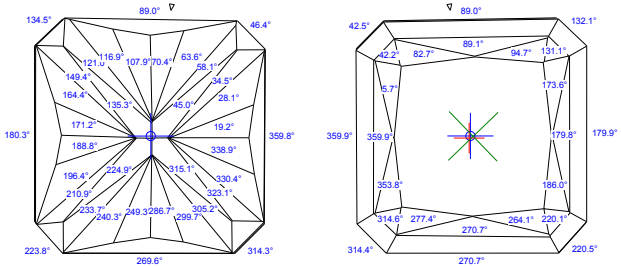
Parameters	Avg	Min	Max	Dev
Crown height: Side, %	11.72	11.16	12.03	0.88
Crown height: Joint, %	N/A	N/A	N/A	N/A
Pavilion height: Side, %	51.61	50.82	52.37	1.55
Pavilion height: Joint, %	N/A	N/A	N/A	N/A
Table: Side, %	67.93	67.69	68.18	0.49
Table: Corner w.r.t. Corner, %	70.12	70.11	70.12	0.01
Table: Corner w.r.t. Width, %	87.46	87.26	87.65	0.39
Diameter: Corner, %	124.73	124.44	125.02	0.59
Girdle thickness: Side, %	5.33	4.85	5.85	1.00
Girdle thickness: Joint, %	N/A	N/A	N/A	N/A
Corner angle width, %	12.03	11.75	12.70	0.95
Corner angle length, %	12.25	11.52	13.10	1.57
Culet, %	0.50	0.31	0.57	0.26
Crown 1 Main height, %	6.41	6.35	6.49	0.14
Crown 1 Corner height, %	6.58	6.16	6.90	0.74
Crown 2 Main height, %	5.56	5.23	5.83	0.60
Crown 2 Corner height, %	5.48	5.33	5.62	0.29
Crown Star height, %	5.12	4.73	5.39	0.66
Pavilion 1 Main height, %	18.90	17.87	19.51	1.64
Pavilion 1 Corner height, %	9.29	8.61	10.00	1.38
Pavilion 2 Corner height, %	42.49	41.08	43.22	2.14
Pavilion 2 Main height, %	N/A	N/A	N/A	N/A
Pavilion Halves 1 height, %	47.12	45.98	48.40	2.42
Pavilion Halves 2 height, %	47.02	46.04	48.30	2.26
Pavilion Halves 3 height, %	34.59	33.13	35.61	2.48
Crown 1 Main angle, °	40.16	39.05	41.15	2.10
Crown 1 Corner angle, °	37.15	36.56	37.62	1.06
Crown 2 Main angle, °	33.28	32.94	33.86	0.92
Crown 2 Corner angle, °	28.58	28.39	28.78	0.39
Crown Star angle, °	24.11	22.98	24.72	1.73
Pavilion 1 Main angle, °	67.12	58.91	70.41	11.50
Pavilion 1 Corner angle, °	44.72	44.04	45.21	1.18
Pavilion 2 Corner angle, °	38.89	37.95	39.51	1.56
Pavilion 2 Main angle, °	N/A	N/A	N/A	N/A
Pavilion Halves 1 angle, °	40.06	39.31	40.65	1.34
Pavilion Halves 2 angle, °	41.05	39.66	42.92	3.26
Pavilion Halves 3 angle, °	41.06	39.74	43.31	3.57
Girdle facet angle, °	86.96	84.28	89.95	5.66

Facets angles

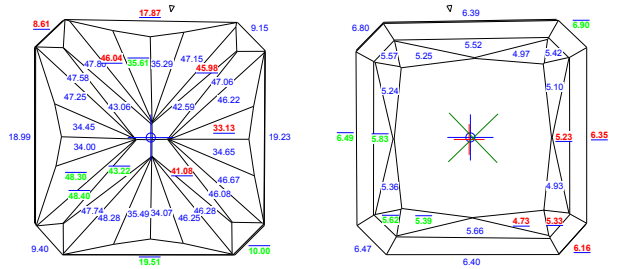


Girdle-Culet offset by table axis	1.05 ± 0.29, %	0.047 ± 0.013, mm
Girdle-Table offset by table axis	1.21 ± 0.25, %	0.054 ± 0.011, mm
Table-Culet offset by table axis	1.88 ± 0.30, %	0.083 ± 0.013, mm
Girdle to table-culet line offset	0.89 %, 0.039 mm	

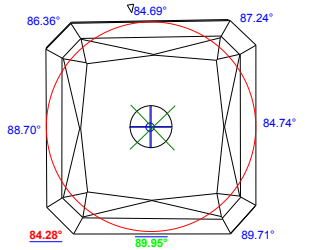
Facets azimuths



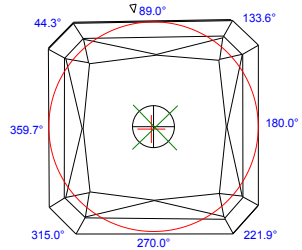
Facets heights (%)

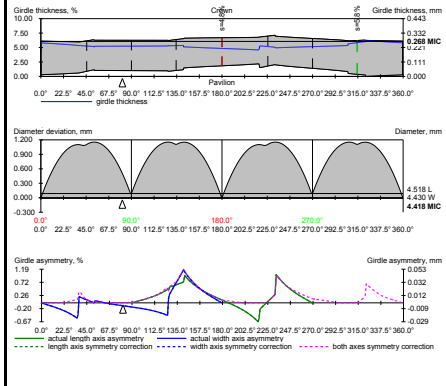


Girdle facets angles & MIC

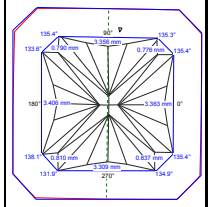


Girdle facets azimuths & MIC





Both axes symmetry correction, girdle sides & internal angles



area loss = 0.78%
mass loss = 0.09%
mass loss = 0.0005ct

Width-wise culet shift ratio (by width)	2.257 mm, 50.95 %	2.173 mm, 49.05 %
Length-wise culet shift ratio (by width)	2.212 mm, 49.94 %	2.308 mm, 52.10 %
Length-wise culet shift ratio (by length)	2.212 mm, 48.97 %	2.308 mm, 51.08 %