

2024.03.04 - Helium Rough/Pacor Client 7.7.1-hotfix 1

Improvements

Algorithm 13. Cascade-2MS

The Solutions with similar weight of diamonds (symmetrical solutions) sometimes have the highest cost. In some cases, Algorithm 13. Cascade-2MS finds such solutions. This happens quite rarely, in about 1-2% of cases, and the price for this is an increase in the operating time of the algorithm by 1.4 times. The list of solutions usually consists of all solutions of Algorithm 13. Cascade-2M plus additionally symmetric solutions.

The file [0048_Results.ox2z](#) contains solutions of both algorithms 13. Cascade-2M (blue) and 13. Cascade-2MS (green).

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ID	Price	ct	BBB	Algorithm	d1	d1, ct	d1 clarity	d1 grade	d2	d2, ct	d2 clarity	d2 grade	
117	36276.41	2.22	BB.1	13. Cascade-2MS	Brilliant	1.01	IF	EX	Brilliant	1.21	IF	EX	
1	35199.00	2.22	BB.1	13. Cascade-2M	Brilliant	1.52	IF	EX	Brilliant	0.70	IF	EX	
101	35199.00	2.22	BB.1	13. Cascade-2MS	Brilliant	1.52	IF	EX	Brilliant	0.70	IF	EX	
2	34803.00	2.20	BB.1	13. Cascade-2M	Brilliant	1.50	IF	EX	Brilliant	0.70	IF	EX	
102	34803.00	2.20	BB.1	13. Cascade-2MS	Brilliant	1.50	IF	EX	Brilliant	0.70	IF	EX	
3	34081.20	2.16	BB.1	13. Cascade-2M	Brilliant	1.75	VVS2	EX	Brilliant	0.41	IF	EX	
103	34081.20	2.16	BB.1	13. Cascade-2MS	Brilliant	1.75	VVS2	EX	Brilliant	0.41	IF	EX	

The best solution of 13. Cascade-2M algorithms is a solution with a weight of 1.52+0.70ct. In addition to this, Algorithm 13. Cascade-2MS found 1.01+1.21ct.