Pentalume Sapphire

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Facet Data

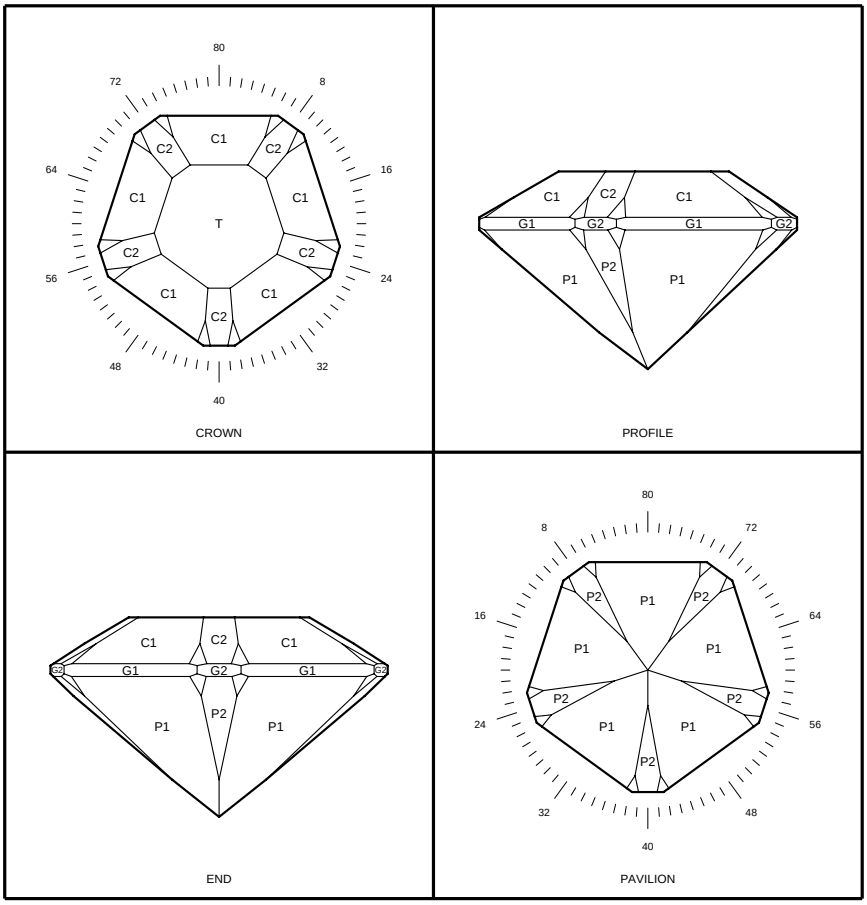
Pavilion facets	20	Pavilion tiers	3
Girdle facets	10	Girdle tiers	2
Crown facets	20+1	Crown tiers	3+1
Total facets	51	Total tiers	9

Size Data

L/W	1.051	P/W	0.438
H/W	0.622	C/W	0.144
V/W^3	0.215	P/C	3.033

Design Data

RI range	1.768 (Sapphire)
Size range	10 mm
Symmetry	5-fold, mirror
Index gear	80 Index
Shape	Clipped pentagon



Comments

Five broad blue sectors, protected corners and paired shoulder facets. Cut in sapphire with the c-axis normal to the table.

Pavilion

P1	43.00°	80-16-32-48-64	Cut to centerpoint.
P2	40.50°	08-24-40-56-72	Meet P1
P3	44.00°	76-04-12-20-28-36-44-52-60-68	Meet P1, P2
G1	90.00°	80-16-32-48-64	Set stone size.
G2	90.00°	08-24-40-56-72	Meet P2, P3, G1

Crown

C1	34.00°	80-16-32-48-64	Set girdle width.
C2	30.00°	08-24-40-56-72	Meet G2, C1
C3	33.00°	76-04-12-20-28-36-44-52-60-68	Meet G1, G2, C1, C2
T	0.00°	Table	Meet C1, C2