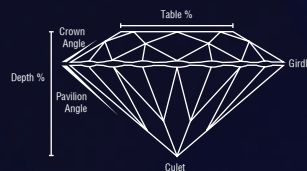


GCAL Cut Grade Standards

Beautiful diamonds are the perfection of nature revealed by masterful cutting. A well cut diamond is brilliant regardless of color and clarity.



Light Performance

GCAL utilizes Diamond Profile® direct assessment imaging technology to visually illustrate and analyze a diamond's Optical Brilliance and Optical Symmetry. Light Performance is the most significant attribute of the total cut grade. Points awarded in this category are: Excellent (40), Very Good (35), Good (30), Fair (25) and Poor (20).

Optical Brilliance Analysis

The Optical Brilliance Analysis quantifies a diamond's brilliance compared to its light loss. The white areas of the image illustrate the white light return and the dark blue areas represent the light loss.



100%-93%
Excellent



92.9%-88%
Very Good



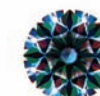
87.9%-80%
Good



79.9%-75%
Fair

Optical Symmetry Analysis

The Optical Symmetry Analysis reveals the craftsmanship of the artisan who cut the diamond. The symmetry of the color pattern demonstrates the balance, angle equality and alignment of each facet.



Excellent



Very Good



Good



Fair

Finish

Finish is comprised of two grading factors: Polish and External Symmetry. Finish is graded by examining a diamond's exterior under 10x magnification. Points awarded in this category are: Excellent (30), Very Good (25), Good (20), Fair (15) and Poor (10).

Polish

Polish is the quality of a diamond's surface. Characteristics considered within the Polish grades are scratches, polish lines, abrasions and burn marks.

External Symmetry

External Symmetry is the exactness and placement of each facet. Characteristics considered within the External Symmetry grades are facet alignment, facet shape and diamond outline.

Proportions

Proportions are calculated by a computerized measurement technology, which produces an individual diagram with the actual dimensions and angles of each diamond. The GCAL Cut Grade considers six proportion factors: table%, total depth%, crown angle, pavilion angle, girdle thickness and culet size. The total points awarded in this category are: Ideal (30), Excellent (30), Very Good (25), Good (20), Fair (15) and Poor (10).

	Traditional	Ideal	Excellent	Very Good	Good	Fair	Poor
Table %	53-57%	52 - 62%	50-51% or 63-66%	47-49% or 67-69%	44-46% or 70-72%	<44% or >72%	
Depth %	59.8-62.4%	57.5 - 63.0%	56.0-57.4% or 63.1-64.5%	53.2-55.9% or 64.6-66.5%	51.1-53.1% or 66.6-70.2%	<51.1% or >70.2%	
Crown Angle:	33.7 - 35.8°	31.5 - 36.5°	26.5-31.4° or 36.6-38.5°	22.0-26.4° or 38.6-40.0°	20.0-21.9° or 40.1-41.5°	<20.0° or >41.5°	
Pavilion Angle:	40.1 - 41.2°	40.1 - 41.8°	39.8-40.0° or 41.9-42.4°	38.0-39.7° or 42.5-43.0°	37.4-37.9° or 43.1-43.8°	<37.4° or >43.8°	
Girdle Thickness:	Thin- Sl. Thick	Thin-Sl. Thick	Very Thin or Thick	Extremely Thin or Very Thick	Extremely Thin or Extremely Thick	Ext.Thin or Ext.Thick	
Culet Size:	None to Small	None to Small	Medium	Sl. Large - Large	Very Large	Extremely Large	

GCAL CUT GRADE INTEGRATION CHART

GCAL Cut Grade	Light Performance	Finish	Proportions	Final Analysis
Ideal	Ex(40)	Ex(30)	Id/Ex (30)	100
Excellent	Ex(40)	Vg(25)	Id/Ex (30)	95
	Ex(40)	Ex(30)	Vg(25)	95
	Vg(35)	Ex(30)	Id/Ex (30)	95
Very Good	Vg(35)	Vg(25)	Id/Ex (30)	90
	Vg(35)	Ex(30)	Vg(25)	90
	Ex(40)	Vg(25)	Vg(25)	90
	Vg(35)	Vg(25)	Vg(25)	85
	Gd(30)	Vg(25)	Vg(25)	80
	Vg(35)	Gd(20)	Vg(25)	80
Good	Vg(35)	Vg(25)	Gd(20)	80
	Gd(30)	Gd(20)	Vg(25)	75
	Gd(30)	Vg(25)	Gd(20)	75
	Vg(35)	Gd(20)	Gd(20)	75
	Gd(30)	Gd(20)	Gd(20)	70
	Gd(30)	Gd(20)	Fr(15)	65
	Gd(30)	Fr(15)	Gd(20)	65
Fair	Fr(25)	Gd(20)	Gd(20)	65
	Gd(30)	Fr(15)	Fr(15)	60
	Fr(25)	Gd(20)	Fr(15)	60
	Fr(25)	Fr(15)	Gd(20)	60
	Fr(25)	Fr(15)	Fr(15)	55
	Pr(20)	Fr(15)	Fr(15)	50
Poor	Fr(25)	Pr(10)	Fr(15)	50
	Fr(25)	Fr(15)	Pr(10)	50
	Fr(25)	Pr(10)	Pr(10)	45
	Pr(20)	Fr(15)	Pr(10)	45
	Pr(20)	Pr(10)	Pr(10)	40

Understanding The GCAL Round Brilliant Cut Grade

The GCAL Cut Grade encompasses ten factors to determine a diamond's light handling ability. These factors are separated into the categories of Light Performance, Finish and Proportions. The sum of these categories equals the total Cut Grade.

GCAL IDEAL CUT

Ideal (100) is the finest of the excellent cut grade. Only when the three categories of cut, Light Performance, Finish and Proportions, rate Excellent, an Ideal Cut Guaranteed Diamond Grading Certificate is issued.

GCAL TOTAL CUT GRADE SCALE

Ideal 100 Excellent 95	Very Good 90-80	Good 75-65	Fair 60-50	Poor 45-40
---------------------------	--------------------	---------------	---------------	---------------

GCAL CUT GRADE COMPONENTS

Light Performance

Excellent 40	Very Good 35	Good 30	Fair 25	Poor 20
-----------------	-----------------	------------	------------	------------

Finish

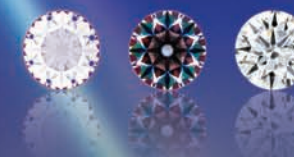
Excellent 30	Very Good 25	Good 20	Fair 15	Poor 10
-----------------	-----------------	------------	------------	------------

Proportion

Ideal 30 Excellent 30	Very Good 25	Good 20	Fair 15	Poor 10
--------------------------	-----------------	------------	------------	------------



GCAL Cut Grade Standards



580 Fifth Avenue, Lower Lobby, New York, NY 10036
T 212.869.8985 F 212.869.2315

www.gemfacts.com

