



IGI

Light Performance Cutting Guidelines

These guidelines are for round brilliant cut (RBC) diamonds in common weights at the indicated table size, with no culet, medium girdle, 50% average star length and 78% average lower girdle facet length. Light Performance and Contrast scores may be reduced when average lower girdle facet length is below 76%.

Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

TABLE 50%

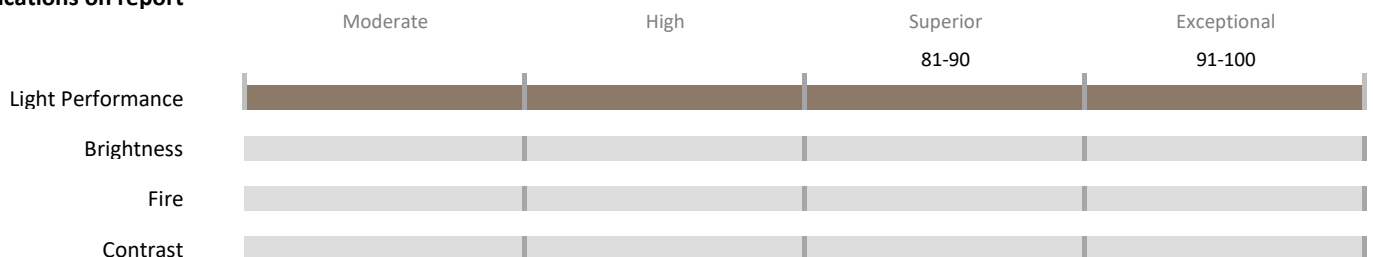
[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																95	95	95	95	95	95	95		
	40.2																	96	96	98	98	98	94			
	40.4														95	95	95	98	98	97	97					
	40.6														95	98	100	98	98	97	96					
	40.8												98	98	100	100	97	94								
	41.0									95	95	98	98	100	100	97	91									
	41.2						95	98	98	98	98	97	97	96												
	41.4					95	94	97	97	97	97	96	95	91												
	41.6					98	97	98	96	96	95	91														
	41.8					98	97	97	95																	
	42.0					95	95	95																		
	42.2																									
	42.4																									
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Brightness		99	99	99	99	98	98	97	96	96	95	94	94	93	92	92	91	91	90	90						
Fire		98	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																92	92	92	92	92	94	94		
	40.2																	92	92	92	95	95	92			
	40.4														90	91	91	92	95	95	91					
	40.6													97	97	99	100	97	99	99						
	40.8												97	99	100	100	99	95								
	41.0									97	97	100	100	99	99	95	93									
	41.2							97	99	99	99	99	98	95	93											
	41.4					97	99	100	99	99	98	95	93	93												
	41.6					100	99	99	98	93	93	93														
	41.8					99	98	93	93																	
	42.0					93	93	93																		
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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Indications on report





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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

TABLE 51%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																95	95	95	98	98	98	98		
	40.2															95	95	96	98	98	98	98	98	96		
	40.4														95	96	96	100	98	97	97					
	40.6													95	98	100	100	98	97	94						
	40.8											95	98	98	100	100	97	94								
	41.0								95	95	98	98	98	100	100	97	94									
	41.2						95	98	98	98	98	97	95	96												
	41.4				95	97	97	97	97	97	97	93	91													
	41.6				98	97	97	96	94	93	91															
	41.8				98	97	95	95																		
	42.0				95	95	92																			
	42.2																									
	42.4																									
		↓																								
Brightness		99	99	99	99	98	98	98	97	96	95	95	94	94	93	92	92	91	90	90						
Fire		98	98	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
		↓																								
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																92	92	92	92	92	94	95		
	40.2															91	91	92	92	92	95	95	92			
	40.4														90	91	91	92	95	95	91					
	40.6													97	97	99	100	100	96	96						
	40.8										97	97	99	100	100	99	95									
	41.0								97	97	100	100	99	99	95	93										
	41.2						97	99	100	100	99	94	93	93												
	41.4				99	99	100	99	99	98	93	93	93													
	41.6				100	99	99	98	93	93	93															
	41.8				99	93	95	93																		
	42.0				93	93	93																			
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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Indications on report

	Moderate	High	Superior	Exceptional
			81-90	91-100
Light Performance				
Brightness				
Fire				
Contrast				



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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

TABLE 52%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	
Pavilion Angle (degrees)	39.6																										
	39.8																										
	40.0	Light Performance															95	95	95	95	95	98	98				
	40.2															95	96	96	98	98	98	97					
	40.4														95	96	98	100	98	97	97						
	40.6												95	95	98	100	100	100	97	93							
	40.8										95	98	98	98	98	98	100	99	94								
	41.0									95	98	98	98	100	100	97	91										
	41.2						95	98	98	98	98	97	97	96													
	41.4					95	94	97	97	97	97	97	95	91													
	41.6					98	97	97	96	94	95																
	41.8					98	97	95	95																		
	42.0					95	95	94																			
	42.2																										
	42.4																										
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
Brightness		100	99	99	99	99	99	99	98	98	97	96	96	95	95	94	93	93	92	91							
Fire		96	98	98	99	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
Pavilion Angle (degrees)	39.6																										
	39.8																										
	40.0	Contrast															91	92	92	92	92	92	92	94			
	40.2																91	91	92	92	92	94	95				
	40.4															90	91	91	92	95	95	91					
	40.6												97	97	97	99	100	100	99	99							
	40.8										97	97	97	99	100	99	99	95									
	41.0									97	97	100	100	99	99	93	93										
	41.2							97	99	100	100	99	99	93	93												
	41.4					97	99	100	99	99	98	93	93	93													
	41.6					100	99	99	93	93	93																
	41.8					99	93	93	93																		
	42.0					93	93	93																			
	42.2																										
	42.4																										
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	
		Crown Angle (degrees)																									

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Indications on report

	Moderate	High	Superior	Exceptional
			81-90	91-100
Light Performance				
Brightness				
Fire				
Contrast				



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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

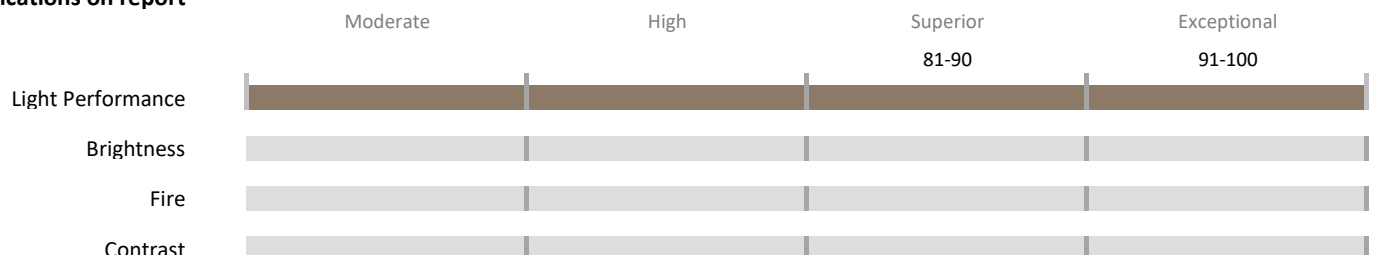
TABLE 53%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	
Pavilion Angle (degrees)	39.6																										
	39.8																										
	40.0	Light Performance																95	95	98	98	98	98	96			
	40.2															95	95	96	100	98	98	96	94				
	40.4												95	95	95	98	98	100	100	97	97						
	40.6											95	96	96	98	100	100	100	97								
	40.8										95	98	98	98	100	100	99	95									
	41.0								95	96	98	98	100	98	97	91											
	41.2					95	95	95	98	98	98	97	97	96													
	41.4				95	97	97	97	97	97	97	97	93	91													
	41.6				98	97	97	96	95	93																	
	41.8				98	97	97	93	91																		
	42.0				95	95	94																				
	42.2																										
	42.4																										
		↓ ↓																									
Brightness		10010099999999989897969695959493939291																									
Fire		9696989899999999100100100100100100100100100100																									
		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																									
Pavilion Angle (degrees)	39.6																										
	39.8																										
	40.0	Contrast																	92	92	92	92	92	94	91		
	40.2																91	91	92	92	92	94	92	90			
	40.4												90	90	90	91	91	92	95	95	91						
	40.6											97	97	97	97	99	100	100	96								
	40.8									97	97	97	99	100	100	99	93	93									
	41.0								97	97	100	100	99	99	93	93											
	41.2					97	97	99	100	100	99	99	93	93													
	41.4				97	99	100	99	99	95	93	93	93														
	41.6				100	99	99	93	93	93	93																
	41.8				99	93	93	93	93	93																	
	42.0				93	93	93																				
	42.2																										
	42.4																										
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	
		Crown Angle (degrees)																									

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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

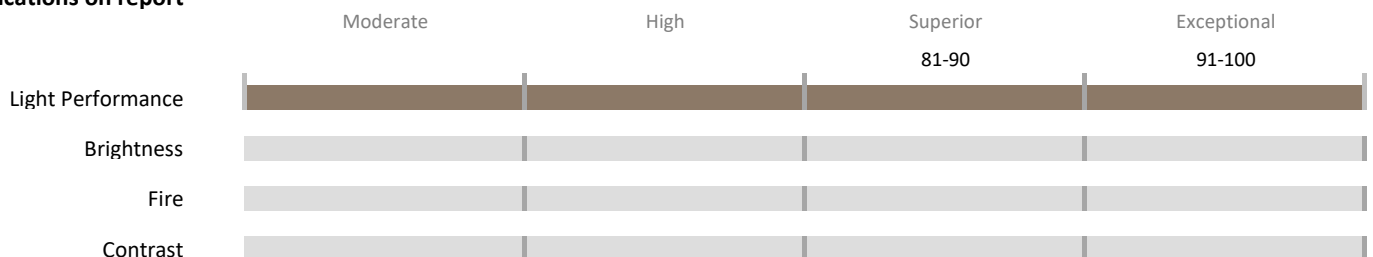
TABLE 54%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	
Pavilion Angle (degrees)	39.6																										
	39.8																										
	40.0	Light Performance															95	95	95	98	98	98	98	96			
	40.2																95	96	96	100	100	98	96	96			
	40.4													95	95	96	100	100	100	100	96	95					
	40.6										95	98	95	98	96	98	100	100	100	95							
	40.8										95	98	98	98	98	100	100	99	94								
	41.0								95	98	98	98	98	100	98	97	91										
	41.2						95	95	98	98	98	98	97	97	94												
	41.4				95	95	97	97	97	97	97	95	91														
	41.6				98	97	97	97	95	93	91																
	41.8				98	97	97	93	91																		
	42.0				96	95	93																				
	42.2																										
	42.4																										
		↓ ↓																									
Brightness		100	100	100	99	99	99	99	99	99	98	98	97	97	96	95	95	94	93	93	92						
Fire		92	96	96	98	98	99	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																									
Pavilion Angle (degrees)	39.6																										
	39.8																										
	40.0	Contrast															91	92	92	92	92	92	92	94	95		
	40.2																91	91	92	92	92	92	95	92			
	40.4													90	90	91	91	92	95	95	91						
	40.6										97	97	97	97	97	99	100	100	99								
	40.8									97	97	97	99	100	100	99	93										
	41.0								97	97	100	100	99	99	93	93											
	41.2						97	99	100	100	99	96	93	93													
	41.4				97	99	100	99	99	93	93	93	93														
	41.6				100	99	99	93	93	93	93																
	41.8				99	93	93	93	93																		
	42.0				93	93	93																				
	42.2																										
	42.4																										
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	
		Crown Angle (degrees)																									

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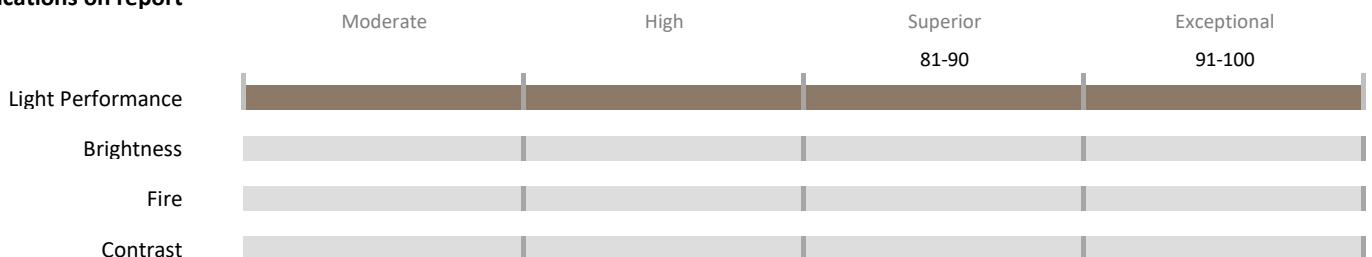
TABLE 55%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	
Pavilion Angle (degrees)	39.6																										
	39.8																										
	40.0	Light Performance																98	98	98	98	98	98	98	96		
	40.2																98	98	98	100	98	98	98	96			
	40.4													95	98	98	100	100	100	100	97	95					
	40.6										95	95	96	98	98	100	100	100	100	97	95						
	40.8								95	95	96	98	98	100	100	100	99	94									
	41.0						95	95	96	98	98	100	100	100	97	91											
	41.2					95	98	98	98	98	100	99	95	96													
	41.4				98	97	97	97	97	97	96	95	91														
	41.6				98	97	97	96	94	95	91																
	41.8				98	97	97	95	91																		
	42.0				96	95	95																				
	42.2																										
	42.4																										
		↓ ↓																									
Brightness		100	100	100	100	99	99	99	99	99	99	99	99	98	98	97	97	96	95	95	94	94	93				
Fire		92	92	96	96	98	98	99	99	99	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	
		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																									
Pavilion Angle (degrees)	39.6																										
	39.8																										
	40.0	Contrast																	92	92	92	92	92	91	92		
	40.2																91	91	92	92	92	94	95	92			
	40.4													90	90	91	91	92	95	95	91						
	40.6											97	97	97	97	99	100	100	99	99	94						
	40.8									97	97	97	97	99	100	100	99	93									
	41.0						97	97	97	97	100	100	99	99	93	93											
	41.2					99	99	99	100	100	96	94	93	93													
	41.4				99	99	100	99	99	93	93	93	93														
	41.6				100	99	99	93	95	93	93																
	41.8				96	93	93	93	93	93																	
	42.0				93	93	93																				
	42.2																										
	42.4																										
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	
		Crown Angle (degrees)																									

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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

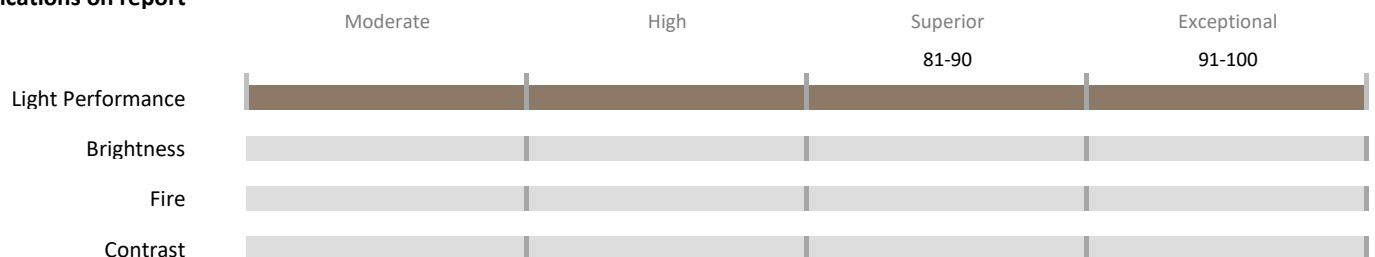
TABLE 56%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance															96	96	96	96	96	96	96	96		
	40.2														95	95	96	98	100	100	98	96				
	40.4												95	95	98	98	100	100	100	95	91					
	40.6										95	96	98	100	100	100	100	97								
	40.8									95	95	96	98	100	100	100	99	93								
	41.0						95	95	96	98	98	100	100	100	97											
	41.2					95	98	98	98	98	100	99	95	94												
	41.4				95	97	97	97	97	97	96	93														
	41.6				96	97	97	96	93	95	91															
	41.8				98	97	97	95	91																	
	42.0				96	95	95	91																		
	42.2																									
	42.4																									
		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																								
Brightness		100	100	100	100	100	99	99	99	99	99	99	99	99	99	98	97	97	96	96	95	94	94			
Fire		88	92	92	96	96	98	98	99	99	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100
		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																								
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast															91	92	92	92	92	92	94	94		
	40.2														90	91	91	92	92	92	94	95				
	40.4											91	90	90	91	91	92	95	95	91						
	40.6										97	97	97	97	99	100	100	99								
	40.8								97	97	97	97	99	100	100	99	93									
	41.0						97	97	97	97	99	100	99	96	93											
	41.2					97	97	99	100	100	99	94	93	93												
	41.4				97	99	100	99	99	93	93	93														
	41.6				100	99	96	95	93	93	93															
	41.8				94	93	93	93	93																	
	42.0				93	93	93	93																		
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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Indications on report





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Light Performance Cutting Guidelines

These guidelines are for round brilliant cut (RBC) diamonds in common weights at the indicated table size, with no culet, medium girdle, 50% average star length and 78% average lower girdle facet length. Light Performance and Contrast scores may be reduced when average lower girdle facet length is below 76%.

Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

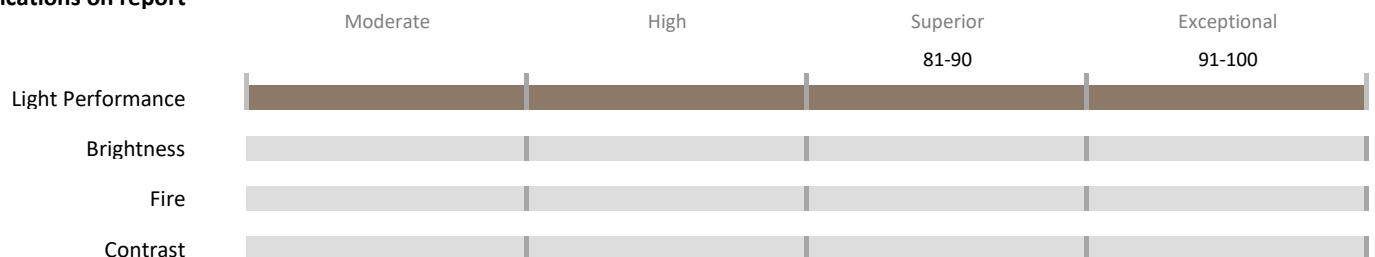
TABLE 57%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																96	98	96	94	92	94			
	40.2													95	98	98	98	98	100	100	98					
	40.4										95	95	96	98	100	100	100	100	99	91	91					
	40.6									98	98	98	98	100	100	100	100	100	93							
	40.8								95	98	98	98	100	100	100	100	97	91								
	41.0						95	95	96	98	98	100	100	100	100	97										
	41.2						95	96	98	98	98	100	99	95	92											
	41.4				95	97	97	97	97	97	94	91														
	41.6				96	97	97	96	93	93	91															
	41.8				96	97	95	93	92																	
	42.0				95	97	95	91																		
	42.2																									
	42.4																									
		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																								
Brightness		100	100	100	100	100	100	100	99	99	99	99	99	99	99	99	99	98	98	97	96	96	95			
Fire		88	88	88	92	92	96	98	98	99	99	99	99	99	99	99	99	99	99	100	100	100	100			
		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																								
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																92	92	92	92	92	92			
	40.2												90	90	90	91	91	92	95	92	94					
	40.4										90	90	90	90	90	91	91	92	99	95	91					
	40.6									97	97	97	97	97	97	99	100	100	98							
	40.8								97	97	97	97	99	100	99	96	93									
	41.0						97	97	97	97	99	100	99	94	93	93										
	41.2					97	97	99	100	100	99	94	93	93												
	41.4				97	99	100	99	96	93	93	93	93													
	41.6				100	99	94	93	93	93	93															
	41.8				94	93	93	93	93																	
	42.0				93	93	93	93																		
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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Light Performance Cutting Guidelines

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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

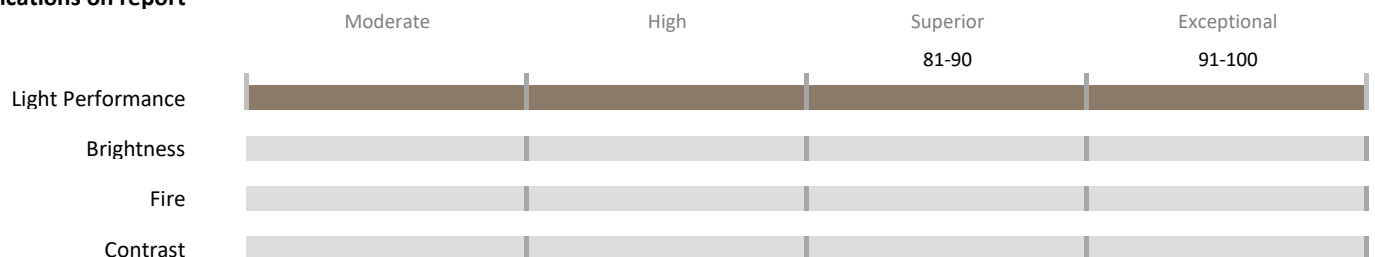
TABLE 58%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																96	96	96	96	92				
	40.2														96	96	96	96	98	98	92					
	40.4												95	95	98	100	100	100	100	95	91					
	40.6								95	98	98	98	98	98	100	100	100	100	97							
	40.8							95	95	98	98	98	98	100	100	100	97	91								
	41.0					95	95	96	96	98	98	100	100	98	95											
	41.2					95	96	98	98	98	100	97	94	94												
	41.4				95	95	97	97	97	97	94	94														
	41.6				98	97	97	96	95	94	91															
	41.8				98	97	96	94	91																	
	42.0				97	97	92	92																		
	42.2																									
	42.4																									
		↓ ↓																								
Brightness		100	100	100	100	100	100	100	100	99	99	99	99	99	99	98	98	97	97	96						
Fire		88	88	88	88	92	92	96	96	98	99	99	99	99	99	99	99	100	100	100						
		↓ ↓																								
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																92	92	92	92	92				
	40.2														90	91	91	92	92	92	94					
	40.4												90	90	91	91	92	94	95	94						
	40.6								97	97	97	97	97	97	99	100	100	94								
	40.8							97	97	97	97	97	99	100	100	94	93									
	41.0					97	97	97	97	97	99	100	99	96	93											
	41.2					97	97	99	100	100	96	96	93	93												
	41.4				99	99	100	99	94	93	93	93	93													
	41.6				100	100	94	93	93	93	93															
	41.8				94	93	93	93	93																	
	42.0				93	93	93	93																		
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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Light Performance Cutting Guidelines

These guidelines are for round brilliant cut (RBC) diamonds in common weights at the indicated table size, with no culet, medium girdle, 50% average star length and 78% average lower girdle facet length. Light Performance and Contrast scores may be reduced when average lower girdle facet length is below 76%.

Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

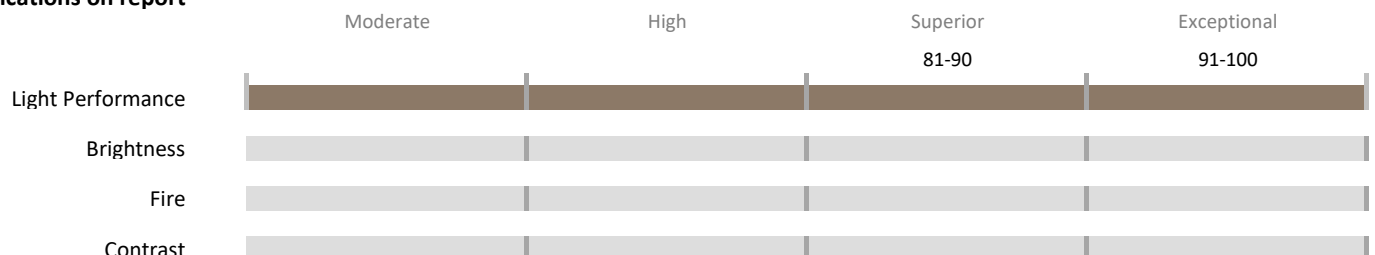
TABLE 59%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																	95	95	92	92				
	40.2																98	98	96	96	96	92				
	40.4												95	95	95	98	98	96	96	91						
	40.6										98	98	98	98	100	100	100	97	95							
	40.8									98	98	98	100	100	100	98	95	91								
	41.0						95	95	95	96	98	96	100	98	97	95										
	41.2						95	97	97	97	98	98	95	93	91											
	41.4						94	97	97	97	97	96	97	92												
	41.6						95	97	96	95	94	94														
	41.8						97	97	96	92																
	42.0						97	97																		
	42.2																									
	42.4																									
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Brightness		100	100	100	100	100	100	100	100	100	100	100	100	100	99	99	99	99	99	99	99	98	97			
Fire		87	88	88	88	88	88	88	92	92	96	96	98	98	99	99	99	99	99	99	99	99	100			
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																	92	92	92	92				
	40.2																91	91	92	92	92	94				
	40.4												90	90	90	91	94	92	95	95						
	40.6										97	97	97	97	97	99	96	100	94							
	40.8									97	97	97	99	99	100	100	93	93								
	41.0						97	97	97	97	97	99	96	96	96	93										
	41.2						97	97	99	100	100	94	93	93	93											
	41.4						97	99	100	99	94	93	93	93												
	41.6						100	99	94	93	93	93														
	41.8						94	93	93	93																
	42.0						93	93																		
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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Light Performance Cutting Guidelines

These guidelines are for round brilliant cut (RBC) diamonds in common weights at the indicated table size, with no culet, medium girdle, 50% average star length and 78% average lower girdle facet length. Light Performance and Contrast scores may be reduced when average lower girdle facet length is below 76%.

Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

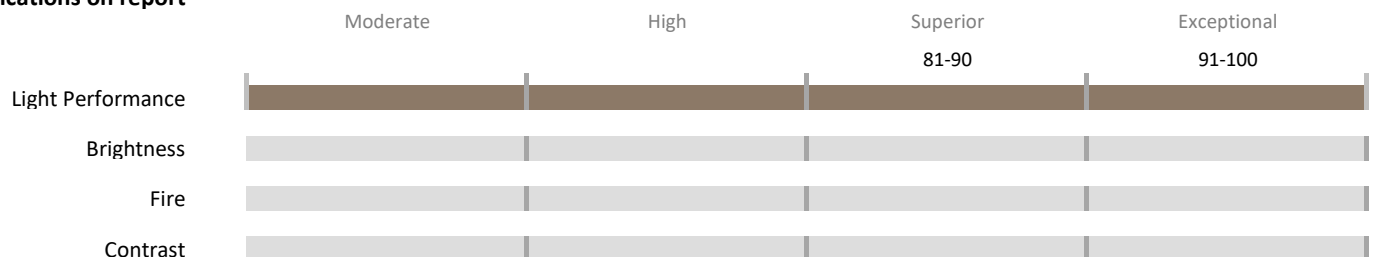
TABLE 60%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																								
	40.2																95	95	95	94						
	40.4													96	98	98	96	96	95							
	40.6								95	95	98	98	98	100	100	98	98	95								
	40.8						95	95	98	98	98	98	100	100	100	97	96									
	41.0					95	96	98	98	98	100	100	97	95												
	41.2				95	95	97	97	97	97	99	96	93													
	41.4				95	97	96	96	96	96	93															
	41.6				97	97	95	95	92																	
	41.8				97	96	93																			
	42.0				97	94																				
	42.2																									
	42.4																									
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓						
Brightness		100	100	100	100	100	100	100	100	100	100	100	100	100	99	99	99	99	99							
Fire		87	87	88	88	88	88	88	88	92	92	96	96	98	98	99	99	99	99							
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓							
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																								
	40.2																91	92	92	92						
	40.4													90	90	91	91	92	95							
	40.6									97	97	97	97	97	97	99	100	100								
	40.8						97	97	97	97	97	97	99	100	96	94										
	41.0					97	97	97	97	97	99	100	94	94												
	41.2					97	97	97	99	100	100	94	94	93												
	41.4					97	99	100	99	94	93	93														
	41.6					100	96	94	93	93																
	41.8					94	93	93																		
	42.0					93	93																			
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

TABLE 61%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																								
	40.2																	95	94							
	40.4														95	95	95	95								
	40.6										95	95	95	95	96	96	95	95								
	40.8							95	97	97	97	98	97	97	97	95	95	95								
	41.0					94	94	98	98	97	98	100	99	97	94	92										
	41.2					94	97	97	97	97	96	96	95	93	91											
	41.4					95	96	95	95	95	94	92														
	41.6					96	96	94	94	94	94															
	41.8					96	95	93																		
	42.0					94																				
	42.2																									
	42.4																									
		↓ ↓																								
Brightness		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99	99							
Fire		87	87	87	87	88	88	88	88	88	92	92	96	96	98	98										
		↓ ↓																								
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																								
	40.2																	92	92							
	40.4														90	91	91	92								
	40.6										97	97	97	97	97	99	100	95								
	40.8							97	97	97	97	97	97	99	100	95	94									
	41.0					97	97	97	97	97	97	99	100	94	94	93										
	41.2					97	97	97	99	100	97	94	94	93	93											
	41.4					97	99	100	96	94	94	93	93													
	41.6					100	94	94	93	93	93															
	41.8					94	93	93																		
	42.0					93																				
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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	Moderate	High	Superior	Exceptional
			81-90	91-100
Light Performance				
Brightness				
Fire				
Contrast				



Light Performance Cutting Guidelines

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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

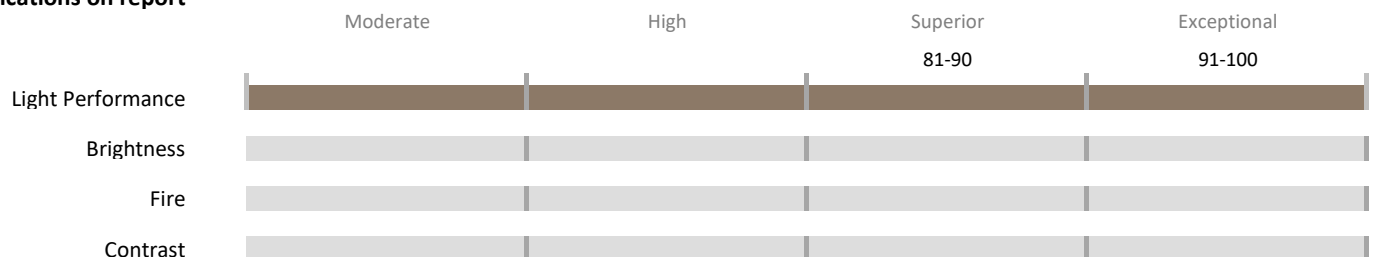
TABLE 62%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																								
	40.2																									
	40.4																									
	40.6											94	94	94	94	94	94	92								
	40.8								95	95	95	95	95	95	95	95	94									
	41.0						94	94	97	97	97	97	97	95	94	91										
	41.2					93	95	96	96	96	96	96	95													
	41.4					93	94	96	95	94	94	92														
	41.6					94	96	94	94	92	91															
	41.8					96	93	92																		
	42.0					95																				
	42.2																									
	42.4																									
						↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Brightness		100																								
Fire		87														87										
						↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																								
	40.2																									
	40.4																									
	40.6											97	97	97	99	100	100	95								
	40.8								97	97	97	97	97	99	100	94	94									
	41.0						97	97	97	97	97	99	97	94	94	93										
	41.2						97	97	97	99	100	95	95	94												
	41.4						97	99	100	94	94	94	93													
	41.6						100	94	94	93	93	93														
	41.8						94	93	93																	
	42.0						93																			
	42.2																									
	42.4																									
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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IGI

Light Performance Cutting Guidelines

These guidelines are for round brilliant cut (RBC) diamonds in common weights at the indicated table size, with no culet, medium girdle, 50% average star length and 78% average lower girdle facet length. Light Performance and Contrast scores may be reduced when average lower girdle facet length is below 76%.

Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

TABLE 63%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																																																																																																																																															
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0																																																																																																																							
Pavilion Angle (degrees)	39.6																																																																																																																																																
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	40.8									97	97	97	94	96	96	96	93																																																																																																																																
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		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0																																																																																																																							
		Crown Angle (degrees)																																																																																																																																															

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Indications on report

	Moderate	High	Superior	Exceptional
			81-90	91-100
Light Performance				
Brightness				
Fire				
Contrast				



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Find Light Performance score on XY grid. Descend through Y column for Brightness & Fire scores. Find Contrast score on bottom XY grid.

TABLE 64%

[Diamond cut grading methodology and definitions](#)

		Crown Angle (degrees)																								
		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Light Performance																								
	40.2																									
	40.4																									
	40.6																									
	40.8									93	93	94	95	94												
	41.0						95	94	94	95	95	94	94													
	41.2				92	93	95	93	93	93	94	94														
	41.4				93	92	92	92	92	92																
	41.6				93	92	92	92																		
	41.8				93	92	92																			
	42.0																									
	42.2																									
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Brightness		100	100	100	100	100	100	100	100	100	100	100	100	100												
Fire		85	86	86	87	87	87	87	87	87	87	88														
		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																								
Pavilion Angle (degrees)	39.6																									
	39.8																									
	40.0	Contrast																								
	40.2																									
	40.4																									
	40.6																									
	40.8									97	97	97	97	97												
	41.0						97	97	97	94	94	94	94	93												
	41.2				97	97	97	96	97	95	94	94														
	41.4				97	96	97	94	94	93																
	41.6				94	94	94	93																		
	41.8				93	93	93																			
	42.0																									
	42.2																									
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		28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
		Crown Angle (degrees)																								

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