

Relative Photometry of HD 227858 and HD 338931 from Landholt Standard SA 113475

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December 9, 2013

Introduction

Methods

Results

Star	Filter	t(s)	$X = \sec z$	$S_{*,sky} = \text{SUM}$	$S_* = \text{FLUX} = \text{SUM} - \text{MSKY} * \text{AREA}$
HD 227858	B	30	1.294		
HD 227858	V	30	1.301		
HD 227858	R	30	1.307		
HD 227858	I	30	1.323		
HD 338931	B	30	1.394		
HD 338931	V	30	1.405		
HD 338931	R	30	1.413		
HD 338931	I	30	1.424		
SA 113475	B	30	1.206		
SA 113475	B	30	1.482		
SA 113475	V	30	1.207		
SA 113475	V	30	1.498		
SA 113475	R	30	1.209		
SA 113475	R	30	1.498		
SA 113475	I	30	1.213		
SA 113475	I	30	1.521		

From ?? and reference data for SA 113475, we arrive at the extinction coef-

ficients:

$$k_B =$$

$$k_V =$$

$$k_R =$$

$$k_I =$$

$$m_1 - m_2 = k(X_1 - X_2) = -2.5 \log \frac{S_1 t_2}{S_2 t_1} \tag{1}$$

Analysis

$$S_{*,sky} = \Delta \nu \overline{\Phi} f t A / g$$

Conclusion

References