

Scoring based on independent, accredited measurements conducted by ICS Laboratories, Inc. Brunswick, OH 44212

Objective: Contract testing of refractive and prismatic properties of various sunglass models purchased at retail.

Procedures: Testing protocols in accord with good laboratory practice were employed for all tests. All tests were conducted in a standard laboratory atmosphere of 73.4± 3.36°F and a relative humidity of 50±5% unless otherwise specified. Testing procedures as specified within Clause 15.4 of ANSI Z87.1-1989 were followed for all tests, with the exception of those samples with refractive power beyond the limits of the telescope specified in ANSI Z87.1, in which case the method defined in EN 167:1995 Clause was used.

SUNGLASS CATEGORY	REFRACTIVE POWER				ASTIGMATISM				PRISMATIC POWER				PRISMATIC IMBALANCE			
	Reading (L)	Score	Reading (R)	Score	Reading (L)	Score	Reading (R)	Score	Reading (L)	Score	Reading (R)	Score	Reading (L)	Score	Reading (R)	Score
Oakley X-Metal Juliet	-0.04	83.33	-0.03	87.50	0.02	90.91	0.02	90.91	0.04	96.72	0.05	95.90	0.00	100.00	0.04	97.50
Carrera I30GEA	-0.02	91.67	-0.02	91.67	0.00	100.00	0.00	100.00	0.22	81.97	0.21	82.79	0.00	100.00	0.35	78.13
Persol 2077-S	-0.01	95.83	-0.01	95.83	0.00	95.45	0.01	95.45	0.24	80.33	0.11	90.98	0.12	68.42	0.00	100.00
Dragon Box	-0.04	83.33	-0.05	79.17	0.07	68.18	0.03	86.36	0.08	93.44	0.06	95.08	0.05	86.84	0.08	95.00
Rudy Project Special Comp	0.02	91.67	0.03	87.50	0.02	90.91	0.03	86.36	0.13	89.34	0.06	95.08	0.07	81.58	0.11	93.13
Ray Ban 4003 Predator Z Wrap	0.02	91.67	-0.04	83.33	0.04	81.82	0.04	81.82	0.20	83.61	0.21	82.79	0.00	100.00	0.04	97.50
Briko Prowler	-0.06	75.00	-0.06	75.00	0.04	81.82	0.04	81.82	0.03	97.54	0.13	89.34	0.10	73.68	0.03	98.13
Foster Grant Conqueror	-0.06	75.00	-0.05	79.17	0.04	81.82	0.03	86.36	0.24	80.33	0.23	81.15	0.00	100.00	0.38	76.25
Bolle Tokay	-0.05	79.17	-0.05	79.17	0.05	77.27	0.05	77.27	0.15	87.70	0.05	95.90	0.08	78.95	0.15	90.63
Nike Monza	-0.10	58.33	-0.11	54.17	0.02	90.91	0.04	81.82	0.22	81.97	0.22	81.97	0.02	94.74	0.10	93.75
Zeal Blast	-0.09	62.50	-0.06	75.00	0.07	68.18	0.05	77.27	0.29	76.23	0.28	77.27	0.02	94.74	0.16	90.00
DSO Da Skinny	-0.06	75.00	-0.06	75.00	0.09	59.09	0.08	63.64	0.16	86.89	0.22	81.97	0.03	92.11	0.31	80.63
Armani 1503	-0.05	79.17	-0.06	75.00	0.04	81.82	0.05	77.27	0.29	76.23	0.30	75.41	0.04	89.47	0.49	69.38
Von Zipper Modge	0.03	87.50	-0.08	66.67	0.06	72.73	0.11	50.00	0.32	73.77	0.36	70.49	0.02	94.74	0.09	94.38
Revo 1007 Extreme Wrap	-0.03	87.50	-0.04	83.33	0.02	90.91	0.03	86.36	0.43	64.75	0.35	71.31	0.02	94.74	0.71	55.63
Serengetti 6560 Vertex	-0.05	79.17	-0.06	75.00	0.03	86.36	0.04	81.82	0.35	71.31	0.39	68.03	0.01	97.37	0.61	61.88
Quiksilver Mini Lagoon	-0.06	75.00	-0.03	87.50	0.06	72.73	0.04	81.82	0.42	65.57	0.23	81.15	0.04	89.47	0.55	65.63
Foster Grant Agent	-0.12	50.00	-0.14	50.00	0.02	90.91	0.05	77.27	0.32	73.77	0.40	67.21	0.00	100.00	0.41	74.38
Killer Loop Zenit	-0.10	58.33	-0.10	58.33	0.09	59.09	0.09	59.09	0.33	72.95	0.21	82.79	0.10	73.68	0.07	95.63
Gargoyle Swift	-0.05	79.17	-0.09	62.50	0.05	77.27	0.07	68.18	0.30	75.41	0.27	77.87	0.09	76.32	0.49	69.38
Gatorz Billet A023644	-0.09	62.50	-0.09	62.50	0.08	63.64	0.09	59.09	0.47	61.48	0.47	61.48	0.00	100.00	0.00	100.00
Electric Circuit	-0.09	62.50	-0.09	62.50	0.10	54.55	0.10	54.55	0.12	90.16	0.20	83.61	0.13	65.79	0.25	84.38
Penhall Mariah	0.02	91.67	-0.10	58.33	0.00	100.00	0.08	63.64	0.28	77.05	0.89	50.00	0.02	94.74	1.04	50.00
Scott Mercury	-0.10	58.33	-0.04	83.33	0.09	59.09	0.04	81.82	0.70	50.00	0.16	86.89	0.03	92.11	0.73	54.38
Arnette Falcon	-0.08	66.67	-0.06	75.00	0.08	63.64	0.06	68.03	0.39	68.03	0.27	77.87	0.17	55.26	0.37	76.88
Angel Mystique	-0.08	66.67	-0.09	62.50	0.11	50.00	0.11	50.00	0.34	72.13	0.39	68.03	0.07	81.58	0.08	95.00
Anarchy Outcast	-0.09	62.50	-0.09	62.50	0.09	59.09	0.09	59.09	0.43	64.75	0.23	81.15	0.19	50.00	0.11	93.13
Spy Scoop HS	-0.11	54.17	-0.12	50.00	0.08	63.64	0.06	72.73	0.43	64.75	0.51	58.20	0.05	86.84	0.26	83.75
Lush Phat Jacks	-0.10	58.33	-0.09	62.50	0.09	59.09	0.08	63.64	0.40	67.21	0.28	77.05	0.13	65.79	0.18	88.75
Vuarnet 058 Aero	-0.06	75.00	-0.07	70.83	0.04	81.82	0.07	68.18	0.53	56.56	0.61	50.00	0.00	100.00	0.80	50.00
Smith Toaster	-0.10	58.33	-0.10	58.33	0.10	54.55	0.07	68.18	0.32	73.77	0.45	63.11	0.17	55.26	0.22	86.25
Black Flies The Fly	-0.12	50.00	-0.12	50.00	0.09	59.09	0.11	50.00	0.57	53.28	0.60	50.82	0.05	86.84	0.58	63.75
POLARIZED CATEGORY																
Oakley Twenty	-0.04	91.67	0.02	95.83	0.00	100.00	0.03	93.75	0.03	97.46	0.03	97.46	0.00	100.00	0.04	97.22
Killer Loop The Snoop	-0.02	95.83	-0.02	95.83	0.03	93.75	0.02	95.83	0.22	81.36	0.19	83.90	0.00	100.00	0.24	83.33
Dragon Rake	-0.05	89.58	0.04	91.67	0.05	89.58	0.08	83.33	0.05	95.76	0.13	88.98	0.12	71.43	0.07	95.14
Von Zipper Fifty	0.02	95.83	0.06	87.50	0.02	95.83	0.11	77.08	0.14	88.14	0.09	92.37	0.05	88.10	0.18	87.50
Armani 1521	0.02	95.83	-0.04	91.67	0.03	93.75	0.06	87.50	0.34	71.19	0.27	77.12	0.00	100.00	0.19	86.81
Maui Jim 404-11	-0.04	91.67	-0.04	91.67	0.06	87.50	0.04	91.67	0.20	83.05	0.30	74.58	0.03	92.86	0.17	88.19
Maui Jim 142-02	0.04	91.67	-0.03	87.50	0.06	87.50	0.05	93.75	0.08	93.22	0.13	88.98	0.21	50.00	0.09	93.75
Revo 3004 Giant Python	0.02	95.83	0.05	89.58	0.04	91.67	0.10	79.17	0.28	76.27	0.23	80.51	0.05	88.10	0.11	92.36
Ray Ban 3119 Olympia	0.02	95.83	-0.04	91.67	0.02	95.83	0.06	87.50	0.19	83.90	0.20	83.05	0.04	90.48	0.35	75.69
Quiksilver Cosmo	0.07	85.42	-0.06	87.50	0.07	85.42	0.06	87.50	0.18	84.75	0.18	84.75	0.07	83.33	0.22	84.72
Scott Mercury	-0.18	62.50	-0.15	68.75	0.02	95.83	0.02	95.83	0.24	79.66	0.28	76.27	0.00	100.00	0.22	84.72
Hobie 0 degree	-0.06	87.50	-0.06	91.67	0.01	97.92	0.33	72.03	0.33	72.03	0.38	67.80	0.00	100.00	0.61	57.64
Costa Del Mar Pro Sport	-0.15	68.75	-0.15	68.75	0.06	87.50	0.05	89.58	0.26	77.97	0.29	75.42	0.00	100.00	0.44	69.44
Angel Vixen	-0.21	56.25	-0.20	58.33	0.05	89.58	0.07	85.42	0.22	81.36	0.32	72.88	0.07	83.33	0.19	86.81
H2Optics H91	-0.22	54.17	-0.20	58.33	0.07	85.42	0.04	91.67	0.25	78.81	0.32	72.88	0.04	90.48	0.33	77.08
Persol 2096-S	-0.05	89.58	-0.05	89.58	0.07	85.42	0.08	83.33	0.32	72.88	0.41	65.25	0.10	76.19	0.22	84.72
H2Optics H88	-0.22	54.17	-0.21	56.25	0.08	83.33	0.04	91.67	0.32	72.88	0.38	67.80	0.00	100.00	0.30	79.17
DSO Bomber	-0.21	56.25	-0.19	60.42	0.04	91.67	0.03	93.75	0.34	71.19	0.38	67.80	0.00	100.00	0.27	81.25
Hobie Offshore	0.06	87.50	0.05	89.58	0.04	91.67	0.05	89.58	0.43	63.56	0.43	63.56	0.79	50.00	0.13	90.97
Smith Chopper 1	0.02	95.83	0.02	95.83	0.04	91.67	0.04	91.67	0.51	56.78	0.31	73.73	0.08	80.95	0.72	50.00
Nike V6	-0.23	52.08	-0.22	54.17	0.07	85.42	0.08	83.33	0.34	71.19	0.37	68.64	0.01	97.62	0.35	75.69
Lush Tourniquet	-0.20	58.33	-0.11	77.08	0.04	91.67	0.01	97.92	0.43	63.56	0.51	56.78	0.05	88.10	0.33	77.08
Arnette Shifter	-0.16	66.67	0.04	91.67	0.07	85.42	0.04	91.67	0.48	59.32	0.29	75.42	0.20	52.38	0.37	74.31
Costa Del Mar B33 Wave Killer	-0.06	87.50	-0.08	83.33	0.06	87.50	0.12	75.00	0.49	58.47	0.59	50.00	0.03	92.86	1.01	50.00
Black Flies Fly Bait	-0.22	54.17	-0.21	56.25	0.08	83.33	0.09	81.25	0.38	67.80	0.50	57.63	0.11	73.81	0.40	72.22
Spy Scoop	>.24	50.00	-0.24	50.00	>.24	50.00	0.10	79.17	0.40	66.10	0.46	61.02	0.00	100.00	0.43	70.14
Penhall Jakes	>.24	50.00	-0.20	58.33	>.24	50.00	0.05	89.58	0.42	64.41	0.49	58.47	0.03	92.86	0.39	72.92
Anarchy Ballistic	>.24	50.00	>.24	50.00	>.24	50.00	>.24	50.00	0.37	68.64	0.44	62.71	0.06	85.71	0.35	75.69
Bolle Boomslang	-0.20	58.33	>.24	50.00	>.24	50.00	>.24	50.00	0.30	74.58	0.43	63.56	0.09	78.57	0.46	68.06
SHIELD CATEGORY																
Oakley Zero .4	-0.02	91.67	-0.03	87.50	0.03	75.00	0.03	75.00	0.04	93.94	0.09					