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WACKER SILICONES CORPORATION

Sutton Road Technical Center
3301 Sutton Road
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ATTN: Paul Nowak

36 Month Florida Testing

ACT Quote Number: AQT34364
ACT Project Number: AIN126384L

Material: Customer Supplied and ACT Prepared Test Panels (See Attached Matrix)

Prepared By: KBK
Date Prepared: 11/15/05
Logbook: RTC-17 pp. 1-90

APPROVED BY:



Kevin Wendt
Technical Manager



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LABORATORY TEST REPORT

ACT PROJECT AIN 126384L

Material I.D.: See Appendix I

Evaluation #1: Florida Exposure – 36 Month
AQT 34364: Per Line Item #45 of Quotation
Material Received: 06/05/02
Test Start Date: 07/22/02
Test End Date: 10/18/05

Note: Test was suspended for approximately 22 days for color readings per customer request

Test Location: Q-Lab Weathering Research Service, Homestead, FL 33034

Test Number: ALI-0084

Exposure: 36 months

Examinations: Initial and Final Color Readings per Evaluations #2 and #3

Evaluation #2: Instrumented Color Change
AQT 34364: Per Line Item #47 of Quotation
Material Received: 06/05/02
Test Start Date: 07/01/02
Test End Date: 11/11/05

Test Method: SAE J1545 (JUN86)

Formula: CIELAB

Instrument: MacBeth Color-Eye 3000 Spectrophotometer (ACT #57)

Illuminant: Type D65
Instrument Geometry: Integrated Sphere
Degree Observer: 10 Degree
Specular Component: Included
UV Component: Included

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Viewing Port: Large Area View
 Color Parameters: L*: Dark/Light Difference
 a*: Red/Green Difference
 b*: Yellow/Blue Difference

Delta E*: Total Difference Between Two Colors as Determined by the Square root of the Sum of the Squares of Deltas L*, a*, b*.

Note: Samples 26 through 31 not reported per Customer instructions

Instrumented Color Reading Test Data: 36 month Florida Exposure

ID	Instrumented Color				Delta E*
	Parameter	Initial	Final	Change	
1-17	L*	31.68	31.53	-0.15	0.59
	a*	-1.31	-1.82	-0.51	
	b*	-28.11	-28.38	-0.27	
1-18	L*	31.65	31.19	-0.46	0.80
	a*	-1.31	-1.83	-0.52	
	b*	-27.96	-28.37	-0.41	
2-17	L*	27.84	27.58	-0.26	0.71
	a*	-4.46	-4.96	-0.50	
	b*	-5.72	-6.17	-0.45	
2-18	L*	27.83	27.28	-0.55	0.78
	a*	-4.49	-4.86	-0.37	
	b*	-5.67	-6.08	-0.41	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**Instrumented Color Reading Test Data (cont.): **36 month Florida Exposure**

ID	Instrumented Color				
	Parameter	Initial	Final	Change	Delta E*
3-17	L*	26.10	25.53	-0.57	0.83
	a*	1.08	0.96	-0.12	
	b*	-6.77	-7.36	-0.59	
3-18	L*	26.10	25.45	-0.65	0.86
	a*	1.20	1.16	-0.04	
	b*	-6.57	-7.13	-0.56	
4-17	L*	26.95	26.32	-0.63	0.83
	a*	5.40	5.36	-0.04	
	b*	-20.33	-20.88	-0.55	
4-18	L*	26.95	26.30	-0.65	0.91
	a*	5.43	5.46	0.03	
	b*	-20.32	-20.97	-0.65	
5-17	L*	30.49	30.06	-0.43	0.84
	a*	-13.90	-14.50	-0.60	
	b*	-5.67	-6.06	-0.39	
5-18	L*	30.44	29.85	-0.59	0.98
	a*	-13.75	-14.44	-0.69	
	b*	-5.83	-6.23	-0.40	
6-17	L*	27.35	26.70	-0.65	0.80
	a*	-1.90	-2.04	-0.14	
	b*	-5.11	-5.57	-0.46	
6-18	L*	27.29	26.76	-0.53	0.74
	a*	-1.93	-2.06	-0.13	
	b*	-5.23	-5.73	-0.50	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**Instrumented Color Reading Test Data (cont.): **36 month Florida Exposure**

ID	Instrumented Color				
	Parameter	Initial	Final	Change	Delta E*
7-17	L*	26.08	25.41	-0.67	0.86
	a*	1.38	1.33	-0.05	
	b*	-6.63	-7.16	-0.53	
7-18	L*	26.01	25.40	-0.61	0.81
	a*	1.21	1.18	-0.03	
	b*	-6.69	-7.24	-0.55	
8-17	L*	26.95	26.45	-0.50	0.78
	a*	6.25	6.36	0.11	
	b*	-21.35	-21.95	-0.60	
8-18	L*	26.94	26.42	-0.52	0.84
	a*	6.20	6.31	0.11	
	b*	-21.27	-21.92	-0.65	
9-17	L*	30.33	29.98	-0.35	0.84
	a*	-13.23	-13.88	-0.65	
	b*	-5.69	-6.11	-0.42	
9-18	L*	30.36	30.03	-0.33	0.88
	a*	-13.26	-13.94	-0.68	
	b*	-5.69	-6.14	-0.45	
10-17	L*	29.65	29.14	-0.51	0.73
	a*	-9.54	-9.87	-0.33	
	b*	-11.23	-11.64	-0.41	
10-18	L*	29.69	29.12	-0.57	0.93
	a*	-9.68	-10.01	-0.33	
	b*	-11.17	-11.84	-0.67	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**Instrumented Color Reading Test Data (cont.): **36 month Florida Exposure**

ID	Instrumented Color				
	Parameter	Initial	Final	Change	Delta E*
11-17	L*	26.98	26.30	-0.68	0.98
	a*	5.81	5.95	0.14	
	b*	-20.73	-21.43	-0.70	
11-18	L*	26.98	26.22	-0.76	0.96
	a*	5.77	5.86	0.09	
	b*	-20.61	-21.20	-0.59	
12-17	L*	26.15	25.71	-0.44	0.70
	a*	1.46	1.42	-0.04	
	b*	-6.57	-7.11	-0.54	
12-18	L*	26.14	25.53	-0.61	0.80
	a*	1.49	1.50	0.01	
	b*	-6.51	-7.04	-0.53	
13-17	L*	26.80	26.29	-0.51	0.72
	a*	5.95	6.00	0.05	
	b*	-20.23	-20.74	-0.51	
13-18	L*	26.80	26.11	-0.69	0.97
	a*	5.92	6.05	0.13	
	b*	-20.24	-20.92	-0.68	
14-17	L*	26.16	25.71	-0.45	0.68
	a*	1.48	1.42	-0.06	
	b*	-6.56	-7.09	-0.53	
14-18	L*	26.09	25.42	-0.67	0.87
	a*	1.39	1.35	-0.04	
	b*	-6.57	-7.14	-0.57	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**Instrumented Color Reading Test Data (cont.): **36 month Florida Exposure**

ID	Instrumented Color				
	Parameter	Initial	Final	Change	Delta E*
15-17	L*	29.47	29.13	-0.34	0.84
	a*	-8.86	-9.08	-0.22	
	b*	-11.09	-11.84	-0.75	
15-18	L*	29.51	29.17	-0.34	0.92
	a*	-8.86	-9.04	-0.18	
	b*	-11.04	-11.88	-0.84	
16-17	L*	29.92	29.39	-0.53	0.73
	a*	-12.30	-12.56	-0.26	
	b*	-5.87	-6.30	-0.43	
16-18	L*	29.93	29.41	-0.52	0.68
	a*	-12.32	-12.53	-0.21	
	b*	-5.99	-6.38	-0.39	
17-17	L*	29.83	29.17	-0.66	0.86
	a*	-12.13	-12.49	-0.36	
	b*	-6.16	-6.57	-0.41	
17-18	L*	29.86	29.26	-0.60	0.87
	a*	-12.22	-12.70	-0.48	
	b*	-6.06	-6.48	-0.42	
18-17	L*	29.69	29.14	-0.55	0.84
	a*	-11.74	-12.22	-0.48	
	b*	-6.10	-6.53	-0.43	
18-18	L*	29.61	29.00	-0.61	0.89
	a*	-11.54	-12.10	-0.56	
	b*	-6.15	-6.49	-0.34	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**Instrumented Color Reading Test Data (cont.): **36 month Florida Exposure**

ID	Instrumented Color				
	Parameter	Initial	Final	Change	Delta E*
19-17	L*	31.74	31.36	-0.38	0.76
	a*	-1.26	-1.74	-0.48	
	b*	-27.77	-28.21	-0.44	
19-18	L*	32.01	31.52	-0.49	0.81
	a*	-1.40	-1.88	-0.48	
	b*	-28.32	-28.76	-0.44	
20-17	L*	32.10	31.99	-0.11	0.58
	a*	-1.47	-1.98	-0.51	
	b*	-28.14	-28.40	-0.26	
20-18	L*	32.12	31.77	-0.35	0.72
	a*	-1.45	-1.95	-0.50	
	b*	-28.31	-28.69	-0.38	
21-17	L*	29.99	29.70	-0.29	0.78
	a*	-12.44	-12.98	-0.54	
	b*	-6.15	-6.65	-0.50	
21-18	L*	29.98	29.47	-0.51	0.91
	a*	-12.26	-12.92	-0.66	
	b*	-6.12	-6.51	-0.39	
22-17	L*	29.91	29.56	-0.35	0.86
	a*	-12.16	-12.76	-0.60	
	b*	-5.84	-6.35	-0.51	
22-18	L*	29.80	29.34	-0.46	0.94
	a*	-11.97	-12.63	-0.66	
	b*	-5.88	-6.38	-0.50	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**Instrumented Color Reading Test Data (cont.): **36 month Florida Exposure**

ID	Instrumented Color				
	Parameter	Initial	Final	Change	Delta E*
23-17	L*	26.02	25.56	-0.46	0.75
	a*	1.37	1.27	-0.10	
	b*	-6.39	-6.98	-0.59	
23-18	L*	26.08	25.42	-0.66	0.87
	a*	1.35	1.30	-0.05	
	b*	-6.42	-6.98	-0.56	
24-17	L*	26.12	25.50	-0.62	0.89
	a*	1.27	1.20	-0.07	
	b*	-6.42	-7.06	-0.64	
24-18	L*	26.09	25.49	-0.60	0.83
	a*	1.29	1.23	-0.06	
	b*	-6.47	-7.06	-0.59	
25-17	L*	26.08	25.39	-0.69	0.94
	a*	1.27	1.11	-0.16	
	b*	-6.56	-7.18	-0.62	
25-18	L*	26.13	25.37	-0.76	0.94
	a*	1.28	1.15	-0.13	
	b*	-6.57	-7.12	-0.55	



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LABORATORY TEST REPORT

ACT PROJECT AIN 126384L

Evaluation #3: Instrumented Color Readings
AQT 34364: Per Line Item #42 of Quotation
Material Received: 06/05/02
Test Start Date: 08/22/03
Test End Date: 11/14/05

Number of Tests: One reading per sample at each angle of incidence
Instrument: X-Rite MA68B Multi-Angle Spectrophotometer (Serial #100355)
Illuminant: D65
Standard Observer: 10°
Illuminating Geometry: 45°

Angles of Incidence: 25°
45°
75°

Color Parameters: L*: Dark/Light Difference
a*: Red/Green Difference
b*: Yellow/Blue Difference

Delta E*: Total Difference Between Two Colors as Determined by the Square root of the Sum of the Squares of Deltas L*, a*, b*

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Instrumented Color Test Data:

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
1-17	L*	25°	23.63	24.08	0.45	0.92
	a*		-0.80	-1.22	-0.42	
	b*		-45.53	-44.85	0.68	
	L*	45°	12.08	12.28	0.20	0.96
	a*		5.07	4.47	-0.60	
	b*		-34.61	-33.89	0.72	
	L*	75°	6.56	6.23	-0.33	0.41
	a*		7.02	6.89	-0.13	
	b*		-28.58	-28.38	0.20	
1-18	L*	25°	24.26	25.45	1.19	2.08
	a*		-1.06	-1.84	-0.78	
	b*		-45.51	-43.98	1.53	
	L*	45°	12.41	13.41	1.00	1.90
	a*		5.14	4.25	-0.89	
	b*		-34.51	-33.16	1.35	
	L*	75°	6.67	7.16	0.49	0.60
	a*		7.06	6.88	-0.18	
	b*		-28.14	-27.84	0.30	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
2-17	L*	25°	18.60	19.85	1.25	1.71
	a*		-29.50	-28.38	1.12	
	b*		-10.74	-10.43	0.31	
	L*	45°	9.88	10.64	0.76	1.12
	a*		-9.34	-9.45	-0.11	
	b*		-15.69	-14.87	0.82	
	L*	75°	5.79	5.66	-0.13	0.41
	a*		1.70	2.08	0.38	
	b*		-19.19	-19.26	-0.07	
2-18	L*	25°	18.30	20.45	2.15	2.38
	a*		-27.86	-27.08	0.78	
	b*		-11.45	-10.78	0.67	
	L*	45°	9.86	10.85	0.99	1.23
	a*		-8.61	-8.25	0.36	
	b*		-15.58	-14.95	0.63	
	L*	75°	5.48	5.66	0.18	0.25
	a*		2.76	2.93	0.17	
	b*		-19.42	-19.47	-0.05	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
3-17	L*	25°	10.70	12.74	2.04	2.12
	a*		-1.85	-1.85	0.00	
	b*		-14.55	-13.99	0.56	
	L*	45°	5.59	6.65	1.06	1.32
	a*		3.82	3.49	-0.33	
	b*		-19.31	-18.60	0.71	
	L*	75°	4.39	4.56	0.17	0.27
	a*		4.85	4.67	-0.18	
	b*		-20.59	-20.48	0.11	
3-18	L*	25°	10.56	12.70	2.14	2.26
	a*		-1.72	-1.76	-0.04	
	b*		-14.24	-13.53	0.71	
	L*	45°	5.58	6.60	1.02	1.19
	a*		3.87	3.65	-0.22	
	b*		-18.99	-18.42	0.57	
	L*	75°	4.20	4.46	0.26	0.34
	a*		4.82	4.66	-0.16	
	b*		-20.42	-20.30	0.12	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
4-17	L*	25°	9.28	11.57	2.29	5.38
	a*		23.23	19.49	-3.74	
	b*		-41.68	-38.56	3.12	
	L*	45°	6.43	7.58	1.15	2.08
	a*		11.72	10.73	-0.99	
	b*		-30.56	-29.13	1.43	
	L*	75°	5.04	5.34	0.30	0.35
	a*		5.96	5.85	-0.11	
	b*		-24.42	-24.27	0.15	
4-18	L*	25°	9.06	11.26	2.20	5.03
	a*		22.67	19.19	-3.48	
	b*		-40.79	-37.91	2.88	
	L*	45°	6.33	7.34	1.01	1.64
	a*		11.26	10.58	-0.68	
	b*		-29.87	-28.78	1.09	
	L*	75°	5.00	5.15	0.15	0.18
	a*		5.99	5.90	-0.09	
	b*		-24.09	-24.04	0.05	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
5-17	L*	25°	23.14	23.76	0.62	2.97
	a*		-32.01	-29.17	2.84	
	b*		-23.30	-22.69	0.61	
	L*	45°	11.34	12.24	0.90	1.41
	a*		-14.36	-13.38	0.98	
	b*		-17.22	-16.71	0.51	
	L*	75°	5.73	6.13	0.40	0.49
	a*		-0.05	-0.31	-0.26	
	b*		-19.24	-19.10	0.14	
5-18	L*	25°	22.56	23.12	0.56	2.31
	a*		-30.28	-28.18	2.10	
	b*		-23.61	-22.80	0.81	
	L*	45°	11.45	12.07	0.62	1.40
	a*		-14.86	-13.65	1.21	
	b*		-17.05	-16.73	0.32	
	L*	75°	5.73	5.87	0.14	0.32
	a*		0.13	-0.15	-0.28	
	b*		-19.16	-19.06	0.10	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
6-17	L*	25°	18.53	19.86	1.33	2.58
	a*		-25.06	-22.86	2.20	
	b*		-5.18	-5.37	-0.19	
	L*	45°	7.87	8.94	1.07	1.21
	a*		-2.55	-2.61	-0.06	
	b*		-16.27	-15.69	0.58	
	L*	75°	4.53	4.84	0.31	0.34
	a*		4.25	4.17	-0.08	
	b*		-19.95	-19.87	0.08	
6-18	L*	25°	18.78	19.91	1.13	2.59
	a*		-25.78	-23.48	2.30	
	b*		-4.95	-5.35	-0.40	
	L*	45°	7.56	8.67	1.11	1.49
	a*		-1.95	-2.41	-0.46	
	b*		-16.82	-15.95	0.87	
	L*	75°	4.52	4.68	0.16	0.17
	a*		4.33	4.27	-0.06	
	b*		-20.05	-20.06	-0.01	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
7-17	L*	25°	11.02	13.08	2.06	2.11
	a*		-1.27	-1.05	0.22	
	b*		-13.84	-13.46	0.38	
	L*	45°	5.62	6.78	1.16	1.40
	a*		4.13	3.71	-0.42	
	b*		-19.06	-18.40	0.66	
	L*	75°	4.27	4.55	0.28	0.31
	a*		5.23	5.12	-0.11	
	b*		-20.21	-20.12	0.09	
7-18	L*	25°	10.53	12.48	1.95	2.05
	a*		-1.30	-1.32	-0.02	
	b*		-14.30	-13.67	0.63	
	L*	45°	5.43	6.46	1.03	1.23
	a*		4.04	3.78	-0.26	
	b*		-19.06	-18.43	0.63	
	L*	75°	4.10	4.29	0.19	0.23
	a*		5.31	5.24	-0.07	
	b*		-20.18	-20.30	-0.12	

**LABORATORY TEST REPORT****ACT PROJECT AIN 126384L**

Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
8-17	L*	25°	9.64	11.69	2.05	4.55
	a*		25.87	22.69	-3.18	
	b*		-43.57	-41.05	2.52	
	L*	45°	6.69	7.71	1.02	1.84
	a*		14.70	13.71	-0.99	
	b*		-33.01	-31.83	1.18	
	L*	75°	5.05	5.30	0.25	0.25
	a*		7.39	7.44	0.05	
	b*		-25.55	-25.54	0.01	
8-18	L*	25°	9.49	11.26	1.77	5.07
	a*		26.43	22.75	-3.68	
	b*		-43.99	-40.97	3.02	
	L*	45°	6.85	7.66	0.81	1.69
	a*		15.31	14.38	-0.93	
	b*		-33.67	-32.52	1.15	
	L*	75°	4.98	5.08	0.10	0.12
	a*		7.30	7.32	0.02	
	b*		-25.29	-25.36	-0.07	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
9-17	L*	25°	23.00	23.87	0.87	1.89
	a*		-32.92	-31.35	1.57	
	b*		-21.95	-21.37	0.58	
	L*	45°	12.43	13.08	0.65	1.29
	a*		-17.28	-16.18	1.10	
	b*		-16.22	-15.98	0.24	
	L*	75°	6.00	6.17	0.17	0.24
	a*		-0.27	-0.43	-0.16	
	b*		-18.95	-18.88	0.07	
9-18	L*	25°	22.78	23.74	0.96	2.19
	a*		-32.62	-30.66	1.96	
	b*		-21.78	-21.53	0.25	
	L*	45°	12.26	12.85	0.59	1.32
	a*		-16.82	-15.65	1.17	
	b*		-16.15	-15.96	0.19	
	L*	75°	6.10	6.25	0.15	0.22
	a*		-0.43	-0.58	-0.15	
	b*		-18.86	-18.87	-0.01	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
10-17	L*	25°	17.81	19.20	1.39	2.20
	a*		-6.04	-6.30	-0.26	
	b*		-35.24	-33.56	1.68	
	L*	45°	10.56	11.45	0.89	1.36
	a*		-8.51	-7.71	0.80	
	b*		-22.17	-21.53	0.64	
	L*	75°	6.01	6.27	0.26	0.36
	a*		-0.72	-0.48	0.24	
	b*		-19.90	-19.89	0.01	
10-18	L*	25°	18.24	19.50	1.26	2.06
	a*		-6.11	-6.22	-0.11	
	b*		-36.04	-34.42	1.62	
	L*	45°	11.21	12.02	0.81	1.27
	a*		-9.65	-8.86	0.79	
	b*		-22.59	-22.02	0.57	
	L*	75°	5.96	6.28	0.32	0.35
	a*		-0.55	-0.71	-0.16	
	b*		-20.05	-20.01	0.04	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
11-17	L*	25°	8.86	11.43	2.57	5.39
	a*		25.26	21.52	-3.74	
	b*		-42.95	-40.05	2.90	
	L*	45°	6.27	7.65	1.38	2.59
	a*		14.50	13.09	-1.41	
	b*		-32.62	-30.95	1.67	
	L*	75°	4.72	5.17	0.45	0.50
	a*		7.69	7.89	0.20	
	b*		-25.30	-25.30	0.00	
11-18	L*	25°	9.57	11.78	2.21	5.01
	a*		23.95	20.47	-3.48	
	b*		-41.97	-39.14	2.83	
	L*	45°	6.65	7.75	1.10	1.83
	a*		13.59	12.66	-0.93	
	b*		-31.56	-30.45	1.11	
	L*	75°	5.05	5.26	0.21	0.35
	a*		7.23	7.04	-0.19	
	b*		-24.65	-24.44	0.21	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
12-17	L*	25°	11.71	14.08	2.37	2.57
	a*		-1.73	-1.96	-0.23	
	b*		-12.89	-11.93	0.96	
	L*	45°	5.79	6.82	1.03	1.21
	a*		4.56	4.20	-0.36	
	b*		-18.69	-18.17	0.52	
	L*	75°	4.35	4.53	0.18	0.19
	a*		5.53	5.56	0.03	
	b*		-20.04	-20.07	-0.03	
12-18	L*	25°	11.56	13.53	1.97	1.97
	a*		-1.31	-1.42	-0.11	
	b*		-12.85	-12.78	0.07	
	L*	45°	5.57	6.82	1.25	1.62
	a*		4.62	4.14	-0.48	
	b*		-19.02	-18.13	0.89	
	L*	75°	4.24	4.45	0.21	0.25
	a*		5.62	5.51	-0.11	
	b*		-20.06	-20.13	-0.07	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
13-17	L*	25°	8.96	11.22	2.26	5.71
	a*		25.51	21.47	-4.04	
	b*		-42.57	-39.21	3.36	
	L*	45°	6.37	7.42	1.05	1.73
	a*		14.36	13.57	-0.79	
	b*		-32.14	-31.01	1.13	
	L*	75°	4.93	5.02	0.09	0.25
	a*		8.04	7.95	-0.09	
	b*		-25.58	-25.36	0.22	
13-18	L*	25°	9.14	11.68	2.54	5.32
	a*		25.70	21.94	-3.76	
	b*		-42.70	-39.94	2.76	
	L*	45°	6.72	7.95	1.23	2.99
	a*		15.99	14.12	-1.87	
	b*		-33.66	-31.68	1.98	
	L*	75°	4.93	5.22	0.29	0.52
	a*		8.11	7.95	-0.16	
	b*		-25.45	-25.05	0.40	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
14-17	L*	25°	11.37	13.41	2.04	2.13
	a*		-0.78	-0.63	0.15	
	b*		-13.27	-12.67	0.60	
	L*	45°	5.85	6.91	1.06	1.32
	a*		4.48	4.16	-0.32	
	b*		-18.80	-18.07	0.73	
	L*	75°	4.42	4.57	0.15	0.17
	a*		5.49	5.45	-0.04	
	b*		-20.18	-20.14	0.04	
14-18	L*	25°	11.55	13.28	1.73	1.74
	a*		-0.38	-0.41	-0.03	
	b*		-13.06	-12.87	0.19	
	L*	45°	5.81	6.86	1.05	1.29
	a*		4.29	4.08	-0.21	
	b*		-18.76	-18.03	0.73	
	L*	75°	4.36	4.53	0.17	0.18
	a*		5.37	5.31	-0.06	
	b*		-20.14	-20.15	-0.01	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
15-17	L*	25°	17.70	18.92	1.22	2.10
	a*		-5.33	-5.39	-0.06	
	b*		-35.38	-33.68	1.70	
	L*	45°	10.44	11.43	0.99	1.23
	a*		-7.16	-6.73	0.43	
	b*		-22.43	-21.83	0.60	
	L*	75°	5.92	6.20	0.28	0.36
	a*		0.80	0.65	-0.15	
	b*		-20.30	-20.16	0.14	
15-18	L*	25°	17.37	18.70	1.33	1.65
	a*		-5.14	-4.56	0.58	
	b*		-34.36	-33.58	0.78	
	L*	45°	10.45	11.19	0.74	0.98
	a*		-6.41	-5.96	0.45	
	b*		-22.25	-21.78	0.47	
	L*	75°	6.57	6.56	-0.01	0.41
	a*		-0.65	-0.27	0.38	
	b*		-19.78	-19.92	-0.14	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
16-17	L*	25°	20.92	22.06	1.14	2.03
	a*		-28.25	-26.83	1.42	
	b*		-22.77	-21.87	0.90	
	L*	45°	10.83	11.63	0.80	1.31
	a*		-13.42	-12.62	0.80	
	b*		-17.25	-16.57	0.68	
	L*	75°	5.62	5.74	0.12	0.16
	a*		0.40	0.51	0.11	
	b*		-19.31	-19.35	-0.04	
16-18	L*	25°	21.27	22.21	0.94	2.00
	a*		-28.62	-27.19	1.43	
	b*		-23.41	-22.38	1.03	
	L*	45°	11.10	11.78	0.68	1.27
	a*		-14.32	-13.45	0.87	
	b*		-17.07	-16.44	0.63	
	L*	75°	5.46	5.58	0.12	0.17
	a*		0.59	0.71	0.12	
	b*		-19.17	-19.20	-0.03	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
17-17	L*	25°	20.57	21.37	0.80	3.44
	a*		-28.21	-24.98	3.23	
	b*		-22.76	-21.85	0.91	
	L*	45°	10.32	11.35	1.03	1.51
	a*		-12.09	-11.32	0.77	
	b*		-17.54	-16.75	0.79	
	L*	75°	5.38	5.79	0.41	0.72
	a*		0.96	0.48	-0.48	
	b*		-19.32	-18.97	0.35	
17-18	L*	25°	20.87	21.44	0.57	2.06
	a*		-27.95	-26.49	1.46	
	b*		-23.08	-21.73	1.35	
	L*	45°	10.46	11.28	0.82	1.10
	a*		-12.82	-12.78	0.04	
	b*		-17.30	-16.57	0.73	
	L*	75°	5.35	5.49	0.14	0.33
	a*		0.68	0.39	-0.29	
	b*		-19.33	-19.24	0.09	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
18-17	L*	25°	19.17	20.39	1.22	2.76
	a*		-25.12	-22.87	2.25	
	b*		-22.75	-21.74	1.01	
	L*	45°	10.53	11.75	1.22	1.54
	a*		-13.31	-12.92	0.39	
	b*		-17.36	-16.51	0.85	
	L*	75°	5.50	5.90	0.40	0.45
	a*		0.02	-0.14	-0.16	
	b*		-19.17	-19.02	0.15	
18-18	L*	25°	19.06	20.57	1.51	2.19
	a*		-25.07	-23.53	1.54	
	b*		-22.49	-22.14	0.35	
	L*	45°	10.31	10.95	0.64	1.52
	a*		-12.45	-11.14	1.31	
	b*		-17.80	-17.38	0.42	
	L*	75°	5.51	5.60	0.09	0.28
	a*		-0.07	0.17	0.24	
	b*		-19.20	-19.30	-0.10	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
19-17	L*	25°	26.45	27.56	1.11	1.91
	a*		-2.28	-3.17	-0.89	
	b*		-47.39	-46.12	1.27	
	L*	45°	15.19	15.97	0.78	1.48
	a*		2.80	2.12	-0.68	
	b*		-36.35	-35.29	1.06	
	L*	75°	8.04	8.31	0.27	0.68
	a*		6.84	6.46	-0.38	
	b*		-29.68	-29.19	0.49	
19-18	L*	25°	26.69	27.84	1.15	1.65
	a*		-2.35	-3.00	-0.65	
	b*		-47.41	-46.44	0.97	
	L*	45°	14.71	15.55	0.84	1.18
	a*		3.06	2.52	-0.54	
	b*		-35.92	-35.29	0.63	
	L*	75°	7.77	7.89	0.12	0.38
	a*		6.69	6.47	-0.22	
	b*		-29.34	-29.06	0.28	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
20-17	L*	25°	26.30	27.42	1.12	1.62
	a*		-1.99	-2.78	-0.79	
	b*		-46.71	-45.84	0.87	
	L*	45°	15.29	15.85	0.56	1.26
	a*		2.50	1.78	-0.72	
	b*		-35.85	-34.99	0.86	
	L*	75°	8.00	7.99	-0.01	0.28
	a*		6.70	6.53	-0.17	
	b*		-29.01	-28.79	0.22	
20-18	L*	25°	26.46	27.69	1.23	1.69
	a*		-1.85	-2.60	-0.75	
	b*		-47.01	-46.13	0.88	
	L*	45°	15.31	15.98	0.67	1.09
	a*		2.42	2.02	-0.40	
	b*		-36.02	-35.25	0.77	
	L*	75°	7.94	8.22	0.28	0.59
	a*		6.62	6.22	-0.40	
	b*		-29.25	-28.93	0.32	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
21-17	L*	25°	21.88	22.75	0.87	1.97
	a*		-29.49	-27.74	1.75	
	b*		-23.61	-23.30	0.31	
	L*	45°	11.13	11.80	0.67	0.94
	a*		-14.28	-13.78	0.50	
	b*		-17.17	-16.75	0.42	
	L*	75°	5.34	5.42	0.08	0.28
	a*		0.81	0.57	-0.24	
	b*		-19.19	-19.07	0.12	
21-18	L*	25°	22.09	23.07	0.98	2.42
	a*		-29.78	-27.62	2.16	
	b*		-23.08	-22.58	0.50	
	L*	45°	11.08	11.94	0.86	1.28
	a*		-12.72	-11.86	0.86	
	b*		-17.52	-17.14	0.38	
	L*	75°	5.82	5.97	0.15	0.28
	a*		0.53	0.73	0.20	
	b*		-18.86	-19.01	-0.15	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
22-17	L*	25°	21.08	21.73	0.65	2.95
	a*		-28.06	-25.21	2.85	
	b*		-23.02	-22.65	0.37	
	L*	45°	10.46	11.21	0.75	1.47
	a*		-11.52	-10.28	1.24	
	b*		-17.50	-17.21	0.29	
	L*	75°	5.62	5.90	0.28	0.30
	a*		1.16	1.09	-0.07	
	b*		-19.41	-19.49	-0.08	
22-18	L*	25°	20.49	21.54	1.05	3.21
	a*		-27.05	-24.05	3.00	
	b*		-22.89	-22.48	0.41	
	L*	45°	10.08	11.13	1.05	1.20
	a*		-10.82	-10.45	0.37	
	b*		-17.69	-17.24	0.45	
	L*	75°	5.54	5.80	0.26	0.47
	a*		1.00	0.61	-0.39	
	b*		-19.37	-19.27	0.10	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
23-17	L*	25°	11.01	13.10	2.09	2.09
	a*		-2.12	-2.16	-0.04	
	b*		-12.96	-12.83	0.13	
	L*	45°	5.24	6.58	1.34	1.51
	a*		4.07	3.73	-0.34	
	b*		-18.64	-18.03	0.61	
	L*	75°	3.83	4.29	0.46	0.47
	a*		5.00	4.92	-0.08	
	b*		-19.87	-19.87	0.00	
23-18	L*	25°	11.38	13.19	1.81	1.88
	a*		-2.33	-1.84	0.49	
	b*		-12.96	-12.81	0.15	
	L*	45°	5.46	6.51	1.05	1.24
	a*		3.74	3.46	-0.28	
	b*		-18.87	-18.27	0.60	
	L*	75°	4.15	4.36	0.21	0.22
	a*		4.72	4.66	-0.06	
	b*		-20.15	-20.14	0.01	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
24-17	L*	25°	11.73	13.46	1.73	1.81
	a*		-3.69	-3.22	0.47	
	b*		-12.81	-12.54	0.27	
	L*	45°	5.53	6.56	1.03	1.31
	a*		3.23	2.94	-0.29	
	b*		-18.98	-18.23	0.75	
	L*	75°	4.22	4.33	0.11	0.15
	a*		4.32	4.22	-0.10	
	b*		-20.13	-20.16	-0.03	
24-18	L*	25°	12.05	13.35	1.30	1.57
	a*		-3.17	-2.43	0.74	
	b*		-12.20	-12.70	-0.50	
	L*	45°	5.37	6.52	1.15	1.41
	a*		3.61	3.22	-0.39	
	b*		-19.03	-18.30	0.73	
	L*	75°	4.04	4.31	0.27	0.34
	a*		4.81	4.63	-0.18	
	b*		-20.20	-20.12	0.08	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
25-17	L*	25°	11.50	12.93	1.43	1.53
	a*		-2.09	-2.02	0.07	
	b*		-12.96	-13.48	-0.52	
	L*	45°	5.43	6.65	1.22	1.53
	a*		3.58	3.25	-0.33	
	b*		-19.22	-18.36	0.86	
	L*	75°	4.16	4.46	0.30	0.47
	a*		4.81	4.51	-0.30	
	b*		-20.38	-20.17	0.21	
25-18	L*	25°	11.53	13.07	1.54	1.59
	a*		-2.15	-2.04	0.11	
	b*		-13.37	-12.98	0.39	
	L*	45°	5.67	6.60	0.93	1.24
	a*		3.47	3.16	-0.31	
	b*		-19.15	-18.39	0.76	
	L*	75°	4.33	4.45	0.12	0.30
	a*		4.53	4.28	-0.25	
	b*		-20.36	-20.24	0.12	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
26-17 L	L*	25°	26.98	28.39	1.41	1.79
	a*		-2.16	-2.81	-0.65	
	b*		-47.76	-46.87	0.89	
	L*	45°	15.06	15.98	0.92	1.50
	a*		2.60	2.09	-0.51	
	b*		-35.92	-34.85	1.07	
	L*	75°	7.75	8.21	0.46	0.72
	a*		6.56	6.41	-0.15	
	b*		-29.02	-28.49	0.53	
26-17 R	L*	25°	27.65	28.80	1.15	1.60
	a*		-2.54	-3.05	-0.51	
	b*		-48.68	-47.68	1.00	
	L*	45°	15.58	16.26	0.68	1.21
	a*		2.71	2.45	-0.26	
	b*		-37.05	-36.09	0.96	
	L*	75°	7.92	8.33	0.41	0.66
	a*		7.66	7.34	-0.32	
	b*		-30.25	-29.85	0.40	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
26-18 L	L*	25°	26.87	27.65	0.78	1.68
	a*		-2.19	-2.89	-0.70	
	b*		-47.20	-45.88	1.32	
	L*	45°	15.28	15.68	0.40	1.35
	a*		2.79	2.45	-0.34	
	b*		-36.00	-34.75	1.25	
	L*	75°	7.87	8.03	0.16	0.51
	a*		6.90	6.71	-0.19	
	b*		-28.95	-28.50	0.45	
26-18 R	L*	25°	27.14	28.48	1.34	1.70
	a*		-2.47	-3.27	-0.80	
	b*		-48.15	-47.48	0.67	
	L*	45°	15.36	16.07	0.71	1.04
	a*		2.78	2.52	-0.26	
	b*		-36.81	-36.09	0.72	
	L*	75°	7.94	8.07	0.13	0.37
	a*		7.71	7.64	-0.07	
	b*		-30.27	-29.93	0.34	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
27-17 L	L*	25°	26.88	28.26	1.38	1.87
	a*		-1.94	-2.87	-0.93	
	b*		-47.70	-46.84	0.86	
	L*	45°	15.02	15.86	0.84	1.22
	a*		2.75	2.37	-0.38	
	b*		-35.87	-35.07	0.80	
	L*	75°	7.80	8.11	0.31	0.37
	a*		6.85	6.75	-0.10	
	b*		-29.06	-28.88	0.18	
27-17 R	L*	25°	27.44	28.63	1.19	1.31
	a*		-2.59	-2.94	-0.35	
	b*		-48.44	-48.04	0.40	
	L*	45°	15.69	16.07	0.38	0.99
	a*		2.77	2.64	-0.13	
	b*		-37.29	-36.38	0.91	
	L*	75°	7.98	8.12	0.14	0.40
	a*		7.79	7.61	-0.18	
	b*		-30.51	-30.18	0.33	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
27-18 L	L*	25°	27.15	28.11	0.96	1.72
	a*		-2.01	-2.88	-0.87	
	b*		-47.90	-46.78	1.12	
	L*	45°	15.28	15.51	0.23	1.37
	a*		2.63	2.28	-0.35	
	b*		-36.15	-34.84	1.31	
	L*	75°	7.84	7.84	0.00	0.65
	a*		7.01	6.66	-0.35	
	b*		-29.34	-28.79	0.55	
27-18 R	L*	25°	27.65	28.41	0.76	1.46
	a*		-2.43	-3.04	-0.61	
	b*		-48.79	-47.70	1.09	
	L*	45°	15.41	15.89	0.48	1.33
	a*		3.16	2.53	-0.63	
	b*		-37.28	-36.22	1.06	
	L*	75°	7.80	7.83	0.03	0.39
	a*		7.80	7.61	-0.19	
	b*		-30.37	-30.03	0.34	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
28-17 L	L*	25°	11.29	13.13	1.84	2.49
	a*		-1.07	-2.74	-1.67	
	b*		-13.10	-13.19	-0.09	
	L*	45°	5.85	7.13	1.28	1.68
	a*		4.07	3.31	-0.76	
	b*		-18.52	-17.74	0.78	
	L*	75°	4.37	4.74	0.37	0.55
	a*		5.08	4.73	-0.35	
	b*		-19.96	-19.77	0.19	
28-17 R	L*	25°	12.08	14.39	2.31	2.39
	a*		-1.01	-1.41	-0.40	
	b*		-11.70	-11.23	0.47	
	L*	45°	5.41	6.88	1.47	1.70
	a*		5.74	5.47	-0.27	
	b*		-18.11	-17.29	0.82	
	L*	75°	3.71	4.06	0.35	0.38
	a*		7.08	7.01	-0.07	
	b*		-18.77	-18.91	-0.13	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
28-18 L	L*	25°	11.15	12.57	1.42	2.23
	a*		-1.15	-2.86	-1.71	
	b*		-13.38	-13.57	-0.19	
	L*	45°	5.77	6.84	1.07	1.39
	a*		3.63	3.18	-0.45	
	b*		-18.78	-18.01	0.77	
	L*	75°	4.51	4.59	0.08	0.30
	a*		4.71	4.53	-0.18	
	b*		-20.11	-19.88	0.23	
28-18 R	L*	25°	11.53	13.64	2.11	2.22
	a*		-1.34	-1.84	-0.50	
	b*		-12.43	-11.92	0.51	
	L*	45°	5.28	6.54	1.26	1.38
	a*		5.43	5.45	0.02	
	b*		-17.96	-17.38	0.58	
	L*	75°	3.52	3.76	0.24	0.24
	a*		6.81	6.84	0.03	
	b*		-18.98	-18.96	0.02	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
29-17 L	L*	25°	11.29	13.09	1.80	1.80
	a*		-1.00	-1.05	-0.05	
	b*		-13.10	-13.08	0.02	
	L*	45°	5.64	6.88	1.24	1.50
	a*		4.36	4.13	-0.23	
	b*		-18.86	-18.06	0.80	
	L*	75°	4.18	4.51	0.33	0.40
	a*		5.38	5.18	-0.20	
	b*		-20.09	-19.97	0.12	
29-17 R	L*	25°	9.97	11.99	2.02	2.16
	a*		-0.55	-0.87	-0.32	
	b*		-14.05	-13.36	0.69	
	L*	45°	4.63	5.69	1.05	1.23
	a*		5.21	5.15	-0.07	
	b*		-18.43	-17.80	0.63	
	L*	75°	3.25	3.38	0.13	0.15
	a*		6.56	6.50	-0.06	
	b*		-19.03	-18.96	0.07	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
29-18 L	L*	25°	11.81	13.30	1.49	1.49
	a*		-1.27	-1.22	0.05	
	b*		-12.85	-12.85	0.00	
	L*	45°	6.04	7.04	1.00	1.21
	a*		4.39	3.96	-0.43	
	b*		-18.52	-18.01	0.51	
	L*	75°	4.39	4.66	0.27	0.31
	a*		5.17	5.03	-0.14	
	b*		-20.03	-19.96	0.07	
29-18 R	L*	25°	10.16	12.29	2.13	2.24
	a*		-0.54	-0.63	-0.09	
	b*		-14.20	-13.50	0.70	
	L*	45°	4.92	5.90	0.98	1.09
	a*		5.44	5.17	-0.27	
	b*		-18.28	-17.90	0.38	
	L*	75°	3.36	3.58	0.22	0.28
	a*		6.74	6.78	0.04	
	b*		-19.08	-19.24	-0.16	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
30-17 L	L*	25°	10.91	12.62	1.71	1.73
	a*		-1.21	-1.32	-0.11	
	b*		-13.25	-13.41	-0.16	
	L*	45°	5.64	6.75	1.11	1.44
	a*		4.16	3.68	-0.48	
	b*		-18.64	-17.85	0.79	
	L*	75°	4.30	4.53	0.23	0.30
	a*		5.11	4.95	-0.16	
	b*		-19.81	-19.71	0.10	
30-17 R	L*	25°	9.82	12.00	2.18	2.23
	a*		-0.63	-0.98	-0.35	
	b*		-13.82	-13.51	0.31	
	L*	45°	4.57	5.83	1.26	1.47
	a*		5.22	4.85	-0.37	
	b*		-18.28	-17.62	0.66	
	L*	75°	3.23	3.49	0.26	0.31
	a*		6.38	6.38	0.00	
	b*		-18.62	-18.79	-0.17	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
30-18 L	L*	25°	10.64	12.52	1.88	1.95
	a*		-1.26	-1.60	-0.34	
	b*		-13.94	-13.54	0.40	
	L*	45°	5.77	7.01	1.24	1.61
	a*		4.42	3.67	-0.75	
	b*		-18.55	-17.85	0.70	
	L*	75°	4.49	4.89	0.40	0.57
	a*		5.41	5.00	-0.41	
	b*		-19.64	-19.66	-0.02	
30-18 R	L*	25°	9.70	12.21	2.51	2.72
	a*		-0.72	-0.78	-0.06	
	b*		-14.04	-13.01	1.03	
	L*	45°	4.60	5.96	1.36	1.49
	a*		5.08	4.92	-0.16	
	b*		-18.24	-17.64	0.60	
	L*	75°	3.25	3.57	0.32	0.38
	a*		6.36	6.34	-0.02	
	b*		-18.66	-18.87	-0.21	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
31-17 L	L*	25°	10.50	12.04	1.54	1.60
	a*		-1.34	-1.43	-0.09	
	b*		-14.26	-13.79	0.47	
	L*	45°	5.49	6.42	0.93	1.28
	a*		3.85	3.49	-0.36	
	b*		-19.06	-18.27	0.79	
	L*	75°	4.31	4.36	0.05	0.23
	a*		4.90	4.67	-0.23	
	b*		-20.13	-20.14	-0.01	
31-17 R	L*	25°	9.21	11.18	1.97	2.35
	a*		0.81	0.55	-0.26	
	b*		-14.75	-13.50	1.25	
	L*	45°	4.54	5.34	0.80	1.02
	a*		5.53	5.45	-0.08	
	b*		-18.56	-17.94	0.62	
	L*	75°	3.25	3.28	0.03	0.14
	a*		6.66	6.63	-0.03	
	b*		-19.07	-19.21	-0.14	

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Instrumented Color Test Data (cont.):

Instrumented Color						
ID	Parameter	Angle	Initial	Final	Change	Delta E*
31-18 L	L*	25°	10.65	12.31	1.66	1.69
	a*		-0.59	-0.78	-0.19	
	b*		-13.56	-13.85	-0.29	
	L*	45°	5.65	6.51	0.86	0.90
	a*		4.13	3.97	-0.16	
	b*		-18.40	-18.21	0.19	
	L*	75°	4.15	4.33	0.18	0.20
	a*		5.07	5.15	0.08	
	b*		-19.87	-19.83	0.04	
31-18 R	L*	25°	9.40	12.18	2.78	3.24
	a*		0.12	-0.73	-0.85	
	b*		-14.53	-13.08	1.45	
	L*	45°	4.75	5.78	1.03	1.15
	a*		5.58	5.36	-0.22	
	b*		-18.21	-17.75	0.46	
	L*	75°	3.27	3.50	0.23	0.25
	a*		6.82	6.74	-0.08	
	b*		-18.98	-19.04	-0.06	

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Appendix I

Substrate: ACT Cold Roll Steel 4" x 12" x 0.032"
 Phosphate: B3080 No Parcolene Imm DIW; Unpolish

ID	Ecoat	Primer	Basecoat	Clearcoat	Description
1	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Control-blue metallic &/or Mica w/color (pdtm formula)
2	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Jade HC-S Masstone
3	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-S Masstone
4	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Sapphire HC-S Masstone
5	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Scarabeus HC-S Masstone
6	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Jade HC-XS Masstone
7	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-XS Masstone
8	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Sapphire HC-XS Masstone
9	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Scarabeus HC-XS Masstone
10	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Aquarius Masstone
11	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Sapphire HC-S & UV fortification in b/c (1.0%/0.5%)*
12	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-S & UV fortification in b/c (1.0%/0.5%)*
13	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Sapphire HC-XS & UV fortification in b/c (1.0%/0.5%)*
14	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-XS & UV fortification in b/c (1.0%/0.5%)*
15	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Aquarius & UV fortification in b/c (1.0%/0.5%)*
16	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Scarabeus HC-S+14 micron mirrors CB4000 untreated
17	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Scarabeus HC-S+14 micron mirrors CB4000 treated
18	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Scarabeus HC-S+ amber glass chip untreated
19	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Control + 2% Vitrocoat 800 milled untreated in base only
20	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Control + 1% Vitroclear 1200 milled untreated in clear only
21	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Scarabeus HC-S + 2% Vitrocoat 800 milled untreated
22	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Scarabeus HC-S + 2% Vitrocoat 800 milled untreated + 14 micron mirrors CB4000 treated
23	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Scarabeus HC-S + 2% Vitrocoat 800 milled untreated + amber glass chip
24	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-S + 2% Vitrocoat 800 milled untreated + mini beads untreated
25	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-S + 2% Vitrocoat 800 milled untreated + mini beads treated
26	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Control high bake repair
27	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Control low bake repair
28	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-XS high bake repair
29	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-XS low bake repair
30	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Helicone Maple HC-XS + 2% Vitrocoat 800 milled untreated + 14 micron mirrors CB4000 treated (high bake repair)
31	ED5650	B89 OP-5	NWB270 W02-0301	Macflow 0-1300	Same as #30, except Low Bake Repair

* Additional UV fortification above normal based on Ciba recommendations