COLORIMETRY WORKSHEET

FS Lab # _____ Examiner _____ Date _____

INSTRUMENT STANDARD CONDITIONS: Minolta CR-221 Colorimeter, 4 mm diameter measuring area, light source C (daylight overcast), 45° illumination, 0° viewing geometry (reflected light excluding specular component)

Calibration Plates: (L*a*b* conversion)

Channel Number	Color	Y	x	y	L*	a*	b*
00 (white master plate)	White	89.30	.3128	.3195	95.70	-0.27	1.72
01	Red	12.40	.4920	.3140	41.84	42.15	19.41
02	Orange	36.10	.4420	.3820	66.59	20.18	38.39
03	Yellow	62.30	.4290	.4420	83.07	-1.47	63.66
04	Yellow-Green	37.10	.3290	.4180	67.35	-25.40	28.75
05	Green	25.90	.2640	.3760	57.94	-33.60	8.65
06	Deep Pink	25.90	.3680	.3080	57.94	21.68	4.87
07	Purple	16.60	.2390	.2050	47.75	16.30	-35.05
08	Cyan	39.60	.2420	.2930	69.18	-20.43	-15.15
09	Brown	24.80	.3690	.3400	56.88	10.79	12.83

Describe Top Side and Bottom Side of EACH Item (Color and specify metallic/nonmetallic):

Item#	Top Side	Bottom Side

Describe only the Sides analyzed (denote Reference Item# and Side with an "R"):

Item# and Side	Area suitable for analysis (mm2)	Surface features and comments (scratches, inclusions, discolorations, etc....)

Calibration Plate closest to above Reference: _____

Mean values from Reference Item: L* _____ a* _____ b* _____

Item# and Side _____Delta E (L*a*b*) value (vs. Reference): _____

Item# and Side _____Delta E (L*a*b*) value (vs. Reference): _____