

Magnitude Estimates of Appearance

Low Dynamic Range

Paint	area#	ML mean	Ma mean	Mb mean	Δ ML	Δ Ma	Δ Mb	MLAB distance	Angle (deg) (Ma vs. ML)	Angle (Ma vs. Mb)
		40.0	69.6	7.3						
R1	97	44.5	66.5	5.8	4.5	-3.1	-1.5	5.9	125	206
R2	56	52.0	64.2	5.5	12.0	-5.4	-1.8	14.1	114	199
R3	55	48.8	62.3	4.8	8.8	-7.3	-2.5	14.1	130	199
R4	92	43.0	64.2	3.2	3.0	-5.4	-4.1	11.1	151	217
R5	11	43.0	65.2	4.1	3.0	-4.4	-3.3	6.3	146	216
		range			9	4	3	7.8		

paint		80	15	68						
Y1	100	80.0	14.6	68.5	0.0	-0.4	0.5	0.6	133	
Y2	68	64.0	14.6	49.0	-16.0	-0.4	-19.0	24.9	268	269
Y3	69	85.0	14.6	68.5	5.0	-0.4	0.5	5.0	95	133
Y4	19	80.0	14.6	68.5	0.0	0.0	0.0	0.0		
Y5	74	60.0	13.8	51.4	-20.0	-1.2	-16.6	26.0	267	266
		range			24	14	7	25		

		50.0	-40.0	45.0						
G1	103	57.0	-33.0	47.0	6.8	-0.1	-0.8	6.9	91	263
G2	50	31.0	-27.0	39.0	-18.7	-1.1	-10.3	21.4	267	264
G3	51	28.0	-23.0	36.0	-21.8	-1.7	-15.4	26.8	266	264
G4	65	70.0	-32.0	47.0	19.5	-0.3	-1.6	19.6	91	260
G5	16	52.0	-34.0	47.0	1.6	0.3	-0.6	1.7	79	299
		range			44	5	12	25		

Paint	area#	60.0	-36.5	-16.3						
C1	102	42.0	-25.6	-8.1	-18.0	11.0	8.1	22.6	301	217
C2	53	72.0	-36.5	-16.3	12.0	0.0	0.0	12.0	90	
C3	45	72.0	-39.6	0.2	12.0	-3.0	16.5	20.6	104	100
C4	73	60.0	-36.5	-16.3	0.0	0.0	0.0	0.0		
		range			30	14	3	23		

Paint	area#	40.0	12.0	-59.0						
B1	99	40.0	12.5	-58.7	0.0	0.5	0.3	0.6		
B2	47	45.0	13.7	-58.7	5.0	1.7	0.3	5.3	71	10
B3	49	48.0	18.8	-54.2	8.0	6.8	4.8	11.6	50	215
B4	33	44.0	13.4	-58.7	4.0	1.4	0.3	4.3	71	12
		range			8	5	5	11		

Paint	area#	60.0	33.5	-37.2						
M1	96	62.6	31.3	-38.4	2.6	-2.2	-1.2	3.6	130	208
M2	59	70.0	27.7	-40.4	10.0	-5.8	-3.2	12.0	120	209
M3	90	74.5	28.9	-39.0	14.5	-4.6	-1.8	15.3	108	201
M4	44	72.6	30.6	-41.2	12.6	-2.9	-4.0	13.6	103	234
M5	70	47.7	26.2	-37.9	-12.3	-7.3	-0.7	14.3	239	185
M6	6	43.1	23.0	-37.3	-16.9	-10.5	-0.1	19.9	238	181
		range			31	9	5	16		

		100.0	0.0	0.0						
W-1	81	98.5	0.0	0.0	-1.5	0.0	0.0	1.5	270	
W-2	83	98.5	0.0	0.0	-1.5	0.0	0.0	1.5	270	
W-3	84	77.8	0.1	-0.5	-22.2	0.1	-0.5	22.2	270	
W-4	85	70.3	0.5	0.4	-29.7	0.5	0.4	29.7	271	219
		range			29	1	0	29		

		75.0	0.0	0.0						
G1-1	101	75.0	0	0	0	0	0	0		

		40.0	0.0	0.0						
G3-1	98	41.3	0.0	0.0	1.25	0.00	0.00	1.3	90	
G3-2	36	45.0	0.5	-0.2	5.00	0.52	-0.20	3.7	84	339
G3-3	38	26.4	0.7	-0.4	-13.60	0.70	-0.39	8.2	273	331
		range			19	1	0	7		

High Dynamic Range

Paint	area#	ML mean	Ma mean	Mb mean	Δ ML	Δ Ma	Δ Mb	MLAB distance	Angle (deg) (Ma vs. ML)	Angle (Ma vs. Mb)
		40.0	69.6	7.3						
R1	97	27.1	59.4	4.3	-12.9	-10.2	-3.0	16.7	232	196
R2	56	24.7	50.0	1.0	-15.3	-19.6	-6.3	25.6	218	198
R3	55	51.8	75.6	9.0	11.8	6.0	1.7	13.3	63	16
R4	92	44.1	70.4	6.8	4.1	0.7	-0.5	4.2	10	325
R5	11	55.0	61.8	-14.9	15.0	-7.8	-22.2	27.9	118	251
		range			30	26	21	23.7		

Paint	area#	80.0	15.0	68.0						
Y1	100	56.0	15.0	61.0	-24.0	0.00	-7.0	25.0	270	270
Y2	68	94.0	14.0	68.0	14.0	-1.0	0.00	14.0	94	180
Y3	69	85.0	14.0	67.0	5.0	-1.0	-1.0	5.2	101	225
Y4	19	81.0	16.0	64.0	1.0	1.0	-4.0	4.2	45	104
Y5	74	86.0	14.0	67.0	6.0	-1.0	-1.0	6.2	99	225
		range			38	2	7	20.8		

		50.0	-40.0	45.0						
G1	103	32.4	-27.4	28.4	-17.6	12.6	-16.6	27.3	305	307
G2	50	70.0	-41.4	46.2	20.0	-1.4	1.2	20.1	94	138
G3	51	10.0	-18.1	19.8	-40.0	21.9	-25.2	52.1	299	311
G4	65	54.5	-40.5	44.9	4.5	-0.5	-0.1	4.5	96	191
G5	16	62.2	-38.7	40.2	12.2	1.3	-4.8	13.2	84	286
		range			60	23	-26	47.6		

Paint	area#	60.0	-36.5	-16.3						
C1	102	39.8	-27.1	-9.3	-20.2	9.4	6.9	23.3	295	36
C2	53	72.1	-37.7	-14.4	12.1	-1.2	1.9	12.3	96	122
C3	45	74.6	-39.4	0.0	14.6	-2.9	16.3	22.0	101	100
C4	73	61.5	-36.4	-13.9	1.5	0.1	2.4	2.8	86	87
		range			35	12	14	20.6		

Paint	area#	40.0	12.0	-59.0						
B1	99	20	6	-29	-20.0	-5.8	29.7	36.2	254	101
B2	47	10	2	-30	-30.0	-9.5	29.0	42.8	252	108
B3	49	44	12	-59	4.0	0.5	0.3	4.0	83	33
B4	33	40	12	-59	0.0	-0.3	0.3	0.4		
		range			34	2	29	42.4		

Paint	area#	60.0	33.5	-37.2						
M1	96	42	33	-37	-18.0	0.0	0.0	18.0	270	135
M2	59	60.0	33.5	-37.2	0.0	0.0	0.0	0.1	180	135
M3	44	52	18	-36	-8.0	-15.3	1.2	17.3	208	176
M4	6	63	37	-37	3.0	3.2	0.04	4.4	43	1
M5	90	20	12	-19	-40.0	-21.4	18.6	49.0	242	139
M6	70	72	33	-37	12.0	-0.04	0.04	12.0	90	135
		range			43	10	29	49.0		

		100.0	0.0	0.0						
W-1	81	101.0	0.0	0.0	1.0	0.0	0.0	1.0	90	
W-2	83	67.4	2.3	-4.3	-32.6	2.3	-4.3	33.0	274	298
W-3	84	61.3	1.7	-15.4	-38.8	1.7	-15.4	41.7	272	276
W-4	85	75.0	24.7	22.4	-25.0	24.7	22.4	41.7	315	42
		range			42	23	26	54.5		

		75.0	0.0	0.0						
G1-1	101	58.5	1.8	0.6	-16	2	1	16.6	276	19

		40.0	0.0	0.0						
G3-1	98	20.6	0.0	0.0	-19	0.00	0.00	19.4	270	
G3-2	64	27.0	0.0	0.0	-13	0.00	0.00	13.0	270	
G3-3	38	53.2	0.0	0.0	13	0.00	0.00	13.2	270	
		range			33	0.00	0.00	6.4		