Companing to cow2.jpg SCALE RED GEEN BLUE GEEN GEEN BLUE GEEN GEEN BLUE GEEN GEEN BLUE GEEN			W COL		1	W HUE		1			S COL	:	S COL			S HUE				Program	Magick	Human		Magick vs.
cov2_leghtcrop.jpg				•	•		•	•										,					vs. Human	Human
Cow2 etternectorp.jpg	,											:											-	
Cow2 Scaledown Jags 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.997 0.996 0.998 0.997 0.996 0.998 0.999 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999 0.998 0.999							<u>.</u>			·														
cow2_felping							<u> </u>			· · · · · · · · · · · · · · · · · · ·			<u> </u>								ļ		() (
cow2_scaledown_jpg															.i	. 					↓		1	
cow2_reducipg 1.000 0.999 0.998 0.998 0.995 1.000 1.000 1.000 1.000 0.699 0.695 0.600 0.693 0.990 0.895 0.895 0.999 0.247 0.992 0.992 0.992 0.993 0.497 0.898 0.999 0.497 0.998 0.999 0.994 0.497 0.998 0.497 0.998 0.999 0.497 0.998 0.999 0.497 0.998 0.497 0.998 0.499 0.49							<u> </u>			<u> </u>			<u> </u>			. 4							1	
cow2_renameejng 1,000 0,959 0,247 0,151 0,972 1,000 0,975 0,655 0,100 0,075 0,075 0,075 0,075 0,075 0,077 0,075 0,070 0,785 0,071 0,772 0,							.	į								. 					↓]	. [
cow2_rediffer.jpg 1,000 0.803 0.398 0.462 1,000 0.965 1,000 0.628 0.214 0.350 0.563 0.713 0.723 0.728 0.630 0.335 0.770 0.785 0.770 MATCH MATCH 12 0.0002_rediffer.ppg 0.996 0.247 0.219 0.117 1,000 0.985 0.000 0.759 1.055 0.071 0.750 0.750 0.755 0.750 0.759 0.550 0.750 0							_			<u> </u>			-										1	. 1
cow2_neofilter-groppig 096 0.273 0.249 0.132 0.931 0.960 0.000 0.607 0.149 0.179 0.465 0.474 0.972 0.857 0.916 0.363 0.502 0.893 MATCH MATCH MATCH 00 cow2_neroscale_lpg 1.000 0.691 0.099 0.0994 0.099 0.914 1.000 0.578 1.000 0.231 0.662 0.488 0.735 0.717 0.951 0.490 0.945 0.895 MATCH MATCH MATCH 1 cow2_red_lpg 1.000 0.091 0.0014 0.332 0.126 0.922 0.951 0.990 0.008 0.0142 0.169 0.008 0.031 0.662 0.048 0.933 0.143 0.904 0.008			l				<u> </u>		L	<u> </u>	l		<u> </u>			. 4			L	L			1	. 1
cow2_neofilter_crop.jpg 0.996 0.247 0.219 0.117 1.000 0.958 0.000 0.575 0.155 0.207 0.304 0.267 0.406 0.333 0.355 0.275 0.439 0.850 NOT MATCH MATCH MATCH 1 cow2_red_jpg 1.000 0.0691 0.389 0.427 0.922 0.941 1.000 0.758 1.000 0.758 0.068 0.142 0.169 0.208 0.544 0.927 0.966 0.999 0.437 0.858 MATCH MATCH MATCH 1 cow2_red_jpg 1.000 0.068 0.993 0.143 0.940 1.000 0.959 0.959 0.142 0.169 0.208 0.858 0.544 0.790 0.990 0.385 0.309 0.857 0.858 MATCH MATCH MATCH 1 cow2_red_jpg 1.000 0.351 0.991 0.215 1.000 0.973 0.000 0.6582 0.191 0.155 0.642 0.888 0.544 0.790 0.990 0.987 0.875 0.866 MATCH MATCH MATCH 1 cow2_red_jpg 1.000 0.351 0.991 0.215 1.000 0.973 0.000 0.6582 0.191 0.155 0.642 0.848 0.955 0.955 0.440 0.357 0.855 0.866 MATCH MATCH MATCH 1 cow2_red_jpg 1.000 0.101 0.977 0.000 1.000 0.961 0.977 0.666 0.151 0.053 0.671 0.042 0.955 0.955 0.440 0.357 0.625 0.333 MATCH MATCH MATCH 1 cow2_red_jpg 1.000 0.121 0.097 0.000 0.000 0.995 0.995 0.995 0.095 0.095 0.000 0.995 0.995 0.095 0.000 0.995 0.995 0.095 0.000 0.995 0.995 0.000 0.995 0.995 0.000 0.995 0.995 0.000 0.995 0.995 0.000	cow2_rotate.jpg	1.000	0.803	0.398	0.462	1.000				0.214	0.350	0.563	0.713	0.723	0.728			0.770	0.785	NOT MATCH	MATCH	MATCH	(J 1
cow2 greyscale.jpg 1,000 0.691 0.899 0.427 0.922 0.941 1.000 0.758 1.000 0.214 0.322 0.961 0.980 0.608 0.993 0.994 0.980 0.994 0.980 0.994 0.995 0.990 0.996 0.998 0.994 0.996 0.998 0.999 0.990	cow2_neofilter.jpg	1.000	0.273	0.249	0.132	0.931	0.960	0.000	0.607	0.149	0.179	0.465	0.474	0.972	0.857	0.916	0.363	0.502	0.893	MATCH	MATCH	MATCH	1	. 1
Cow2_contrast.pig	cow2_neofilter_crop.jpg	0.996	0.247	0.219	0.117	1.000	0.958	0.000	0.579	0.155	0.207	0.304	0.267	0.406	0.333	0.355	0.275	0.439	0.850	NOT MATCH	MATCH	MATCH	() 1
cow2 red.jpg	cow2_greyscale.jpg	1.000	0.691	0.899	0.427	0.922	0.941	1.000	0.758	1.000	0.231	0.662	0.488	0.735	0.717	0.951	0.490	0.945	0.895	MATCH	MATCH	MATCH	1	. 1
Cow2 yellowjpg 1.000 0.351 0.991 0.215 1.000 0.652 0.997 0.600 0.662 0.191 0.195 0.642 0.284 0.965 0.957 0.589 0.355 0.620 0.807 MATCH MATCH MATCH 1.1 0.000 0.991 0.997 0.990	cow2_contrast.jpg	1.000	0.214	0.332	0.126	0.922	0.961	0.980	0.608	0.142	0.169	0.208	0.544	0.927	0.966	0.991	0.348	0.437	0.858	MATCH	MATCH	MATCH	1	1 :
cow2 green.jpg 1.00 0.121 0.977 0.007 1.000 0.961 0.977 0.666 0.975 0.986 0.955 0.667 0.955 0.701 0.079 0.301 0.465 0.307 0.655 0.307 0.851 0.787 MATCH MATCH MATCH 1 0.002 brightness.jpg 1.000 0.005 0.025 0.095 0.000 0.000 0.957 0.977 0.602 0.044 0.025 0.005 0.005 0.000	cow2_red.jpg	1.000	0.068	0.993	0.143	0.940	1.000	0.959	0.590	0.142	0.169	0.588	0.544	0.790	0.930	0.987	0.370	0.675	0.866	MATCH	MATCH	MATCH	1	L 1
cow2 textcover.jpg 1.000 0.949 0.890 0.920 0.920 0.920 0.920 0.950 0.095	cow2_yellow.jpg	1.000	0.351	0.991	0.215	1.000	0.973	0.000	0.682	0.191	0.195	0.642	0.284	0.965	0.957	0.589	0.355	0.620	0.807	MATCH	MATCH	MATCH	1	. 1
Cow2 brightness,jpg 1.00 0.01 0.005 0.024 0.005 0.024 0.000 0.050 0.025 0.095 0.000	cow2 green.jpg	1.000	0.121	0.977	0.007	1.000	0.961	0.977	0.646	0.151	0.053	0.671	0.042	0.965	0.955	0.440	0.357	0.625	0.733	MATCH	NOT MATCH	MATCH	1	ι (
cow2_darken.jpg	cow2 textcover.jpg	1.000	0.949	0.890	0.920	0.922	0.980	0.996	0.028	0.249	0.702	0.555	0.701	0.079	0.301	0.465	0.307	0.851	0.787	MATCH	MATCH	MATCH	1	1
cow2_180rotate_sat.jpg	cow2 brightness.jpg	1.000	0.012	0.005	0.024	0.000	0.957	0.977	0.602	0.044	0.028	0.035	0.218	0.230	0.130	0.797	0.147	0.496	0.678	NOT MATCH	NOT MATCH	MATCH	() (
Cow2_180rotate_sat.jpg	cow2 darken.jpg	1.000	0.006	0.025	0.095	0.000	0.000	0.000	0.500	1.000	0.007	0.044	0.236	0.503	0.429	0.400	0.176	0.423	0.596	NOT MATCH	NOT MATCH	MATCH	() (
another_cow.jpg 0.637 0.713 0.799 0.396 0.926 0.934 1.000 0.104 0.365 0.290 0.383 0.405 0.179 0.160 0.279 0.325 0.398 0.759 NOT MATCH MATCH NOT MATCH 1 more_cows.jpg 0.775 0.342 0.509 0.401 0.935 0.983 0.979 0.626 0.257 0.233 0.300 0.449 0.727 0.708 0.548 0.349 0.445 0.790 NOT MATCH MATCH NOT MATCH 1 more_cows2.jpg 0.800 0.877 0.277 0.266 0.922 0.969 0.940 0.216 0.457 0.306 0.321 0.548 0.311 0.430 0.670 0.356 0.349 0.445 0.790 NOT MATCH NOT MATCH NOT MATCH 1 row.jpg 0.993 0.341 0.345 0.313 0.922 0.957 0.969 0.606 0.573 0.207 0.287 0.373 0.054 0.036 0.115 0.372 0.552 0.612 NOT MATCH NOT MATCH NOT MATCH 1 field.jpg 0.700 0.575 0.456 0.212 0.935 0.916 0.920 0.205 0.001 0.198 0.288 0.379 0.422 0.350 0.480 0.292 0.404 0.821 NOT MATCH NOT MATCH NOT MATCH 1 gray.jpg 0.977 0.075 0.069 0.423 0.922 0.976 0.976 0.778 0.369 0.110 0.178 0.487 0.487 0.487 0.487 0.487 0.487 0.487 0.487 0.487 0.487 0.487 0.487 0.488 0.394 0.400 0.186 0.548 NOT MATCH NOT MATCH NOT MATCH 1 green_gradient.jpg 0.504 0.013 0.164 0.426 0.000 0.996 1.000 0.000 1.000 0.481 0.000 0.322 0.125 0.212 0.388 0.394 0.400 0.265 0.465 0.464 0.696 NOT MATCH NOT MATCH NOT MATCH 1 green_gradient.jpg 0.618 0.365 0.419 0.403 0.931 0.000 0.000 1.000 0.481 0.497 0.114 0.116 0.108 0.244 0.269 0.400 0.205 0.425 0.632 NOT MATCH NOT MATCH NOT MATCH 1 rainbow.jpg 0.465 0.203 0.172 0.253 0.912 0.961 1.000 0.481 0.497 0.114 0.116 0.107 0.368 0.227 0.352 0.213 0.571 0.570 NOT MATCH NOT MATCH NOT MATCH 1		0.997	0.553	0.661	0.837	1.000	0.980	0.957	0.626	0.174	0.248	0.477	0.454	0.469	0.458	0.478	0.300	0.480	0.671	NOT MATCH	NOT MATCH	MATCH	() (
more cows.jpg 0.775 0.342 0.599 0.401 0.935 0.983 0.979 0.626 0.257 0.233 0.300 0.449 0.727 0.708 0.548 0.349 0.445 0.790 NOT MATCH MATCH NOT MATCH 1 more cows2.jpg 0.800 0.877 0.277 0.266 0.922 0.969 0.940 0.216 0.457 0.306 0.321 0.548 0.311 0.430 0.749 NOT MATCH NOT MATCH NOT MATCH NOT MATCH NOT MATCH 1 row.jpg 0.993 0.341 0.345 0.313 0.922 0.957 0.969 0.606 0.573 0.207 0.287 0.373 0.054 0.306 0.115 0.372 0.552 0.612 NOT MATCH	cow2_saturation.jpg	1.000	0.591	0.718	0.848	1.000	0.992	0.960	0.607	0.175	0.518	0.759	0.822	0.982	0.992	0.968	0.383	0.866	0.954	MATCH	MATCH	MATCH	1	
more cows2.jpg 0.800 0.877 0.277 0.266 0.922 0.969 0.940 0.216 0.457 0.306 0.321 0.548 0.311 0.430 0.670 0.356 0.349 0.749 NOT MATCH NOT MATCH NOT MATCH 1 row.jpg 0.993 0.341 0.345 0.313 0.922 0.957 0.969 0.606 0.573 0.207 0.287 0.373 0.054 0.036 0.115 0.372 0.552 0.612 NOT MATCH NOT MATCH NOT MATCH 1 field.jpg 0.700 0.575 0.456 0.212 0.955 0.976 0.976 0.978 0.369 0.117 0.188 0.289 0.422 0.350 0.480 0.292 0.404 0.821 NOT MATCH	another cow.jpg	0.637	0.713	0.799	0.396	0.926	0.934	1.000	0.104	0.365	0.290	0.383	0.405	0.179	0.160	0.279	0.325	0.398	0.759	NOT MATCH	MATCH	NOT MATCH	1	. (
row.jpg 0.993 0.341 0.345 0.313 0.922 0.957 0.969 0.606 0.573 0.207 0.287 0.373 0.054 0.036 0.115 0.372 0.552 0.612 NOT MATCH NOT MATCH NOT MATCH 1 field.jpg 0.700 0.575 0.456 0.212 0.935 0.916 0.920 0.205 0.001 0.198 0.288 0.379 0.422 0.350 0.480 0.292 0.404 0.821 NOT MATCH NOT MATCH NOT MATCH 1 gray.jpg 0.577 0.059 0.450 0.059 0.452 0.050 0.450 0.575 0.456 0.203 0.778 0.552 0.612 NOT MATCH NOT MATCH NOT MATCH 1 principles 0.504 0.013 0.164 0.426 0.000 0.996 1.000 0.996 0.288 0.22 0.213 0.099 0.400 0.238 0.400 0.238 0.400 0.168 0.540 0.568 NOT MATCH NOT MATCH NOT MATCH 1 principles 0.618 0.365 0.419 0.403 0.31 0.000 0.000 0.599 0.124 0.128 0.116 0.108 0.244 0.269 0.400 0.255 0.425 0.632 NOT MATCH NOT MATCH NOT MATCH 1 principles 0.465 0.203 0.127 0.253 0.912 0.961 1.000 0.481 0.497 0.114 0.116 0.108 0.244 0.269 0.400 0.255 0.425 0.632 NOT MATCH NOT MATCH NOT MATCH 1 principles 0.465 0.203 0.465 0.203 0.465 0.203 0.465 0.203 0.465 0.203 0.465 0.203 0.465 0.203 0.465 0.203 0.465 0.203 0.465 0.203 0.465 0.4	more cows.jpg	0.775	0.342	0.509	0.401	0.935	0.983	0.979	0.626	0.257	0.233	0.300	0.449	0.727	0.708	0.548	0.349	0.445	0.790	NOT MATCH	MATCH	NOT MATCH	1	L (
row.jog 0.993 0.341 0.345 0.313 0.922 0.957 0.969 0.606 0.573 0.207 0.287 0.373 0.054 0.365 0.315 0.372 0.552 0.612 NOT MATCH NOT MATCH NOT MATCH 1 field.jpg 0.700 0.575 0.456 0.212 0.935 0.916 0.920 0.205 0.916 0.920 0.205 0.010 0.198 0.288 0.379 0.422 0.350 0.480 0.292 0.404 0.821 NOT MATCH NOT MATCH NOT MATCH 1 gray.jpg 0.977 0.075 0.069 0.423 0.922 0.976 0.976 0.976 0.978 0.389 0.117 0.178 0.487 0.618 0.618 0.649 0.749 0.333 0.280 0.322 NOT MATCH NOT MATCH NOT MATCH 1 green_gradient.jpg 0.827 0.344 0.002 0.329 1.000 0.096 1.000 0.401 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.401 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.329 0.000 0.329 0.329 0.340 0.329 0.340 0.329 0.340 0.329 0.340 0.329 0.340 0.329 0.340 0.329 0.340 0.329 0.340 0.329 0.340 0.340 0.329 0.340 0.340 0.340 0.340 0.	more cows2.jpg	0.800	0.877	0.277	0.266	0.922	0.969	0.940	0.216	0.457	0.306	0.321	0.548	0.311	0.430	0.670	0.356	0.349	0.749	NOT MATCH	NOT MATCH	NOT MATCH	1	
field.jpg 0.700 0.575 0.456 0.212 0.935 0.916 0.920 0.019 0.288 0.379 0.422 0.380 0.292 0.480 0.292 0.400 0.821 NOT MATCH MATCH NOT MATCH 1 gray.jpg 0.977 0.075 0.069 0.423 0.922 0.976 0.789 0.369 0.117 0.178 0.487 0.618 0.649 0.749 0.383 0.280 0.732 NOT MATCH		0.993	0.341	0.345	0.313	0.922	0.957	0.969	0.606	0.573	0.207	0.287	0.373	0.054	0.036	0.115	0.372	0.552	0.612	NOT MATCH	NOT MATCH	NOT MATCH	1	Ĺ :
gray.jpg 0.977 0.075 0.069 0.423 0.922 0.976 0.976 0.978 0.369 0.117 0.178 0.487 0.618 0.649 0.749 0.383 0.280 0.732 NOT MATCH NOT MATCH NOT MATCH 1 red_gradient.jpg 0.504 0.013 0.164 0.426 0.000 0.996 1.000 0.996 1.000 0.401 0.000 0.410 0.000 0.410 0.		0.700		0.456	0.212	0.935	0.916	0.920	0.205	0.001	0.198	0.288	0.379	0.422		0.480	0.292	0.404	0.821	NOT MATCH	MATCH	NOT MATCH	1	1 (
red gradient.jpg 0.504 0.013 0.164 0.426 0.000 0.996 1.000 0.506 0.288 0.022 0.123 0.099 0.400 0.238 0.440 0.168 0.540 0.568 NOT MATCH NOT MATCH 1 green_gradient.jpg 0.827 0.344 0.002 0.329 1.000 0.000 1.000 0.401 0.000 0.329 0.155 0.212 0.388 0.394 0.400 0.126 0.464 0.696 NOT MATCH NOT MATCH NOT MATCH 1 blue_gradient.jpg 0.618 0.365 0.419 0.403 0.931 0.000 0.000 0.539 0.124 0.128 0.116 0.108 0.244 0.269 0.400 0.205 0.425 0.632 NOT MATCH NOT MATCH NOT MATCH 1 rainbow.jpg 0.465 0.203 0.172 0.253 0.912 0.961 1.000 0.481 0.497 0.114 0.116 0.177 0.368 0.227 0.352 0.213 0.571 0.570 NOT MATCH NOT MATCH NOT MATCH 1																							1	1
green_gradient.jpg 0.827 0.344 0.002 0.329 1.000 0.000 1.000 0.401 0.000 0.329 0.000 0.329 0.000							<u></u>			·		<u> </u>				. 							1	1
blue_gradient.jpg 0.618 0.365 0.419 0.403 0.931 0.000 0.000 0.539 0.124 0.128 0.116 0.108 0.244 0.269 0.400 0.205 0.425 0.632 NOT MATCH NOT MATCH NOT MATCH 1 rainbow.jpg 0.465 0.203 0.172 0.253 0.912 0.961 1.000 0.481 0.497 0.114 0.116 0.177 0.368 0.227 0.352 0.213 0.571 0.570 NOT MATCH NOT MATCH NOT MATCH 1							<u> </u>	······		·			<u> </u>			. 4							1	
rainbow.jpg 0.465 0.203 0.172 0.253 0.912 0.961 1.000 0.481 0.497 0.114 0.116 0.177 0.368 0.227 0.352 0.213 0.571 0.570 NOT MATCH NOT MATCH NOT MATCH 1							<u> </u>			<u> </u>			<u> </u>			. <u></u>					↓		1	1
70 70 70 70 70 70 70 70 70 70 70 70 70 7							<u></u>		L	·			L										1	<u> </u>
* first section = dimensionally altered images, second section = color adjusted images, third section = unrelated images cow2.jpg = control image 0.81				•												0.002	0.223	3.571	0.07.0			Accuracy	0.81	1 0.71

^{**} for each test and section, red = highest score(s), blue = lowest score(s)

			i	i		İ			ļ			İ		i			l						
Comparing to		W COL	W COL	W COL	W HUE	W HUE	W HUE	W	WHOLE	S COL	S COL	S COL	S HUE	S HUE	S HUE	SEG	SEG	MAGICK	Program	Magick	Human	Program	Magick vs.
hopkins_logo.jpg	SCALE	RED	GREEN	BLUE	RED	GREEN	BLUE	GRAY	B/W	RED	GREEN	BLUE	RED	GREEN	BLUE	GRAY	B/W	SCORE	Classification	Classification	Classification	vs. Human	Human
unc_logo.jpg	0.842	0.999	0.998	0.234	0.000	0.000	0.000	0.086	0.828	0.985	0.952	0.279	0.158	0.246	0.720	0.194	0.960	0.839	NOT MATCH	MATCH	NOT MATCH	1	0
kentucky_logo.jpg	0.788	0.981	0.976	0.297	0.000	0.000	0.000	0.230	0.734	0.926	0.893	0.265	0.111	0.110	0.160	0.198	0.721	0.774	NOT MATCH	MATCH	NOT MATCH	1	0
duke_logo.jpg	0.684	0.000	0.000	0.000	0.941	0.941	1.000	0.133	0.846	0.000	0.000	0.000	0.227	0.332	0.837	0.000	0.357	0.021	NOT MATCH	NOT MATCH	NOT MATCH	1	1
ie_logo.jpg	0.857	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.399	0.000	0.000	0.000	0.200	0.200	0.480	0.000	0.773	0.043	NOT MATCH	NOT MATCH	NOT MATCH	1	1
•						·				·	·	·	·		·	·	·				Accuracy	1.00	0.50