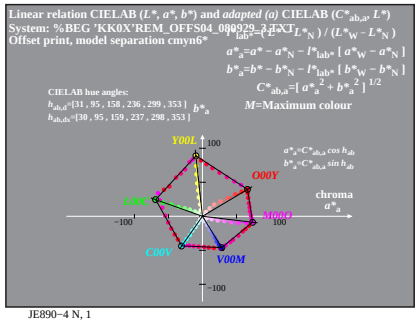

JE890−4 N, 1

48 step device hue circle and
3 steps of a 16 step elementary hue circle
with equal CIELAB hue steps

no.	$h_{ab,a}$	L^*	a^*_a	b^*_a	no.	$h_{ab,a}$	L^*	a^*_a	b^*_a	no.	$h_{ab,a}$	L^*	a^*_a	b^*_a	no.	$h_{ab,a}$	L^*	a^*_a	b^*_a	no.	$h_{ab,a}$	L^*	a^*_a	b^*_a	no.	$h_{ab,a}$	L^*	a^*_a	b^*_a
648	31.3	48.4	66.2	40.3	720	96.2	90.2	−9.6	88.3	72	152.5	55.8	−65.2	33.9	80	233.9	63.0	−30.5	−41.9	8	298.7	27.5	26.0	−47.3	656	353.0	49.5	73.5	−8.9
657	38.9	52.8	56.7	45.9	639	99.9	86.4	−14.5	83.3	73	159.4	56.7	−62.6	23.5	71	239.6	59.1	−24.9	−42.6	89	308.4	29.6	34.0	−42.7	655	357.1	49.4	72.3	−3.6
666	47.6	57.4	46.7	51.2	558	103.4	82.7	−18.9	79.6	74	167.8	57.5	−59.1	12.7	62	245.5	55.3	−19.6	−43.1	170	317.1	31.3	40.8	−37.8	654	0.8	49.2	71.2	1.1
675	58.1	62.8	35.8	57.6	477	110.2	77.5	−25.5	69.0	75	179.0	58.5	−54.5	0.8	53	253.6	50.4	−12.9	−43.9	251	322.4	35.4	44.8	−34.5	653	5.8	49.3	69.7	7.0
684	68.6	68.6	25.0	64.1	396	116.8	73.3	−31.7	62.8	76	190.1	59.3	−50.3	−8.9	44	262.6	45.7	−5.7	−44.6	332	331.5	38.3	52.7	−28.5	652	10.6	48.9	69.3	13.0
693	78.2	74.5	14.6	70.8	315	124.3	68.7	−38.7	56.8	77	201.4	60.1	−45.8	−18.0	35	272.8	40.7	2.2	−45.0	413	339.4	40.9	59.1	−22.2	651	15.7	48.9	68.2	19.2
702	85.6	80.0	5.8	76.6	234	137.9	62.4	−48.6	43.9	78	213.2	61.0	−40.8	−26.7	26	281.3	36.6	9.2	−45.9	494	343.4	44.9	63.2	−18.7	650	22.0	48.8	67.1	27.1
711	91.4	85.1	−2.0	82.0	153	145.4	59.3	−56.5	38.9	79	223.3	61.9	−36.1	−34.0	17	289.8	32.4	16.8	−46.6	575	348.3	47.4	68.2	−14.0	649	26.9	48.6	66.5	33.8

RJGB*$_{ton}$**, 25.4 , 92.3 , 162.2 , 271.7 ***RJGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio: 22.2 , 0.2 , 0.6 ***LAB*Wio:*** 96.3 , −0.8 , 2.0

25.4		42.1		58.8		75.6		92.3		109.7		127.2		144.7		162.2		189.6		216.9		244.3		271.7		300.1		328.6		357.0	
46		1		3		4		7		10		13		14		17		19		22		25		28		32		35		40	
15.7	22.0	31.3	38.9	47.6	58.1	58.1	68.6	85.6	91.4	99.9	103.4	116.8	124.3	124.3	137.9	152.5	159.4	167.8	179.0	201.4	213.2	233.9	239.6	253.6	262.6	289.8	298.7	317.1	322.4	348.3	353.0
26.9	31.3	47.6	58.1	68.6	78.2	78.2	85.6	96.2	99.9	110.2	116.8	137.9	145.4	145.4	152.5	167.8	179.0	190.1	201.4	223.3	233.9	245.5	253.6	272.8	281.3	308.4	317.1	331.5	339.4	357.1	0.8
0.703	0.369	0.074	0.722	0.183	0.928	0.217	0.908	0.33	0.952	0.369	0.798	0.888	0.144	0.673	0.984																
651	650	648	657	666	675	675	684	702	711	639	558	396	315	315	234	72	73	74	75	77	78	80	71	53	44	17	8	170	251	575	656
649	648	666	675	684	693	693	702	720	639	477	396	234	153	153	72	74	75	76	77	79	80	62	53	35	26	89	170	332	413	655	654
507	506	504	531	558	585	585	612	666	693	477	234	468	225	225	702	216	217	218	219	221	222	224	197	143	116	35	8	494	17	269	512
505	504	558	585	612	639	639	666	720	477	711	468	702	459	459	216	218	219	220	221	223	224	170	143	89	62	251	494	260	503	511	510

no./Code	*R (380nm − 725nm)*																		*X*	*Y*	*Z*	*L**	*a**	*b**	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$
506	1471	1238	999	859	771	746	747	752	757	697	617	629	715	714	592	499	469	418											
	329	287	493	1966	4764	6933	8015	8465	8656	8750	8805	8819	8829	8832	8850	8870	8864	8882	31.6	17.4	7.9	48.8	67.0	28.3	48.8	67.1	27.1	95.0	22.0
505	1277	1067	835	678	582	550	543	553	580	549	497	540	662	695	588	496	467	416											
	328	284	487	1957	4760	6930	8009	8459	8646	8742	8797	8805	8815	8817	8834	8854	8851	8867	31.2	17.3	6.1	48.6	66.4	34.9	48.6	66.5	33.8	94.1	26.9
r00j=R	1335	1118	883	730	636	605	600	609	630	591	531	566	678	701	590	497	468	417											
	328	285	489	1960	4762	6931	8011	8461	8649	8744	8799	8809	8819	8821	8839	8859	8855	8871	31.4	17.3	6.6	48.7	66.5	32.9	48.7	66.7	31.8	73.9	25.4
531	1210	968	726	552	442	397	384	400	449	451	436	543	812	1031	1023	952	928	866											
	746	669	917	2489	5181	7156	8113	8505	8673	8758	8806	8814	8823	8825	8841	8859	8857	8874	33.4	20.8	4.9	52.8	56.5	47.1	52.8	56.7	45.9	80.2	38.9
558	1289	1045	785	590	469	419	400	417	479	496	491	646	1043	1445	1561	1527	1515	1450											
	1310	1212	1492	3079	5592	7360	8200	8543	8690	8769	8812	8818	8825	8823	8838	8857	8851	8873	36.4	25.3	5.5	57.4	46.5	52.5	57.4	46.7	51.2	66.1	47.6
r25j	1241	997	748	565	451	404	389	405	459	467	455	581	898	1184	1219	1160	1140	1076											
	946	860	1123	2711	5340	7236	8147	8519	8679	8762	8807	8815	8823	8823	8839	8857	8854	8873	34.5	22.5	5.1	54.5	52.6	49.2	54.5	52.9	47.9	71.4	42.2
585	1391	1137	859	642	501	436	416	438	517	551	565	776	1331	1975	2267	2300	2308	2250											
	2101	1991	2283	3814	6071	7596	8308	8595	8724	8791	8832	8836	8841	8838	8852	8870	8866	8879	40.2	31.4	6.2	62.8	35.4	59.0	62.8	35.8	57.6	50.6	58.1
612	1508	1245	944	701	538	468	441	466	563	615	646	923	1663	2594	3116	3242	3282	3238											
	3089	2975	3268	4687	6614	7849	8410	8640	8744	8802	8837	8838	8840	8839	8855	8872	8863	8882	44.8	38.7	7.0	68.6	24.6	65.6	68.6	25.0	64.1	35.4	68.6
r50j	1399	1144	864	646	503	438	417	439	520	555	570	786	1354	2017	2325	2364	2373	2316											
	2167	2056	2349	3874	6109	7614	8315	8598	8725	8791	8832	8836	8841	8838	8852	8870	8866	8879	40.5	31.9	6.2	63.2	34.6	59.5	63.2	35.0	58.0	67.8	58.9