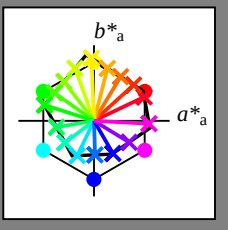
Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

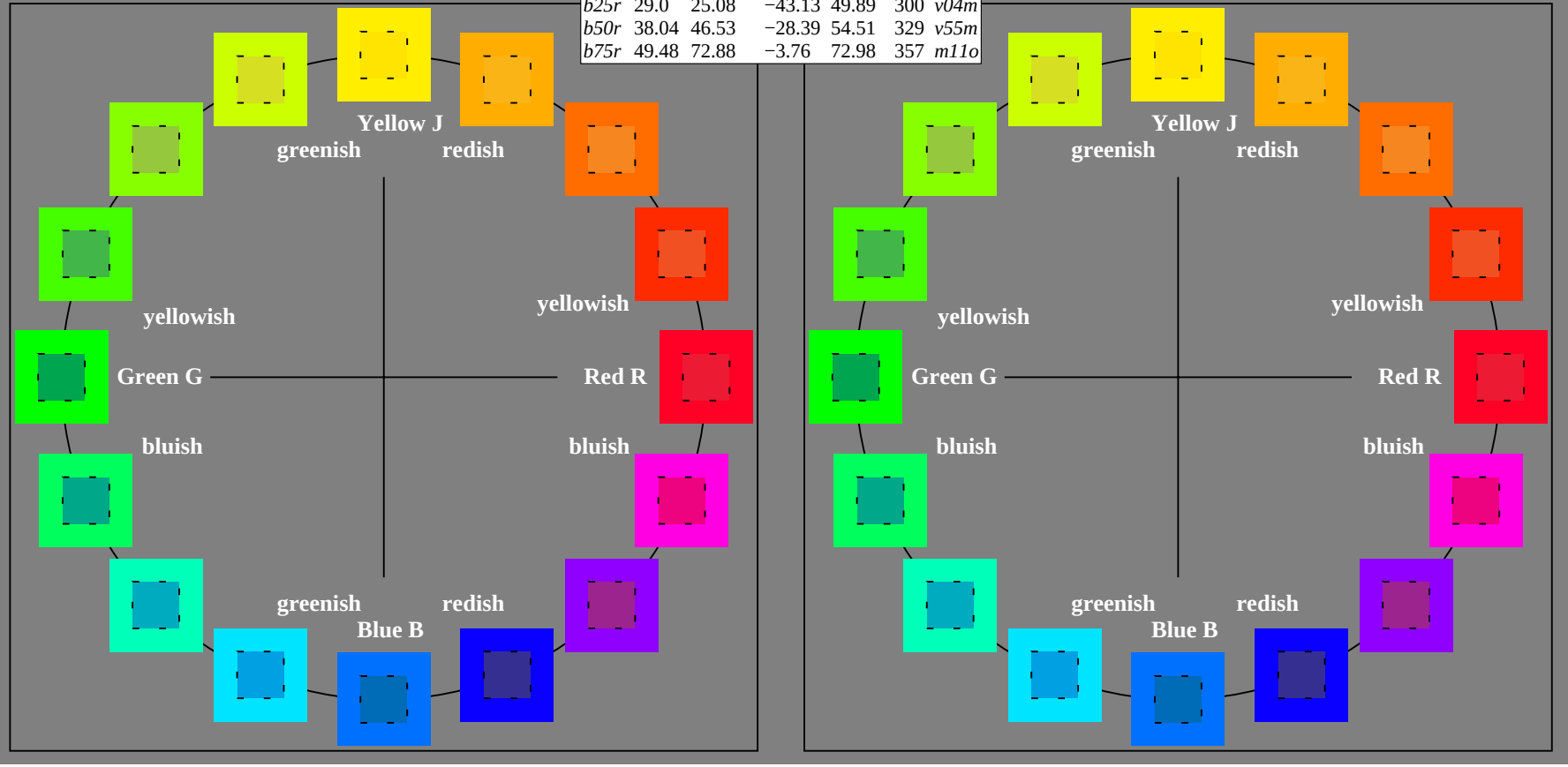
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

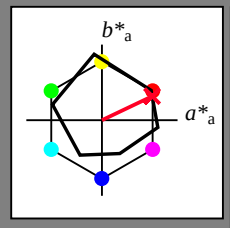
ORS19_96a; adapted (a) CIELAB data

Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071** **u^*_e = *r00j***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

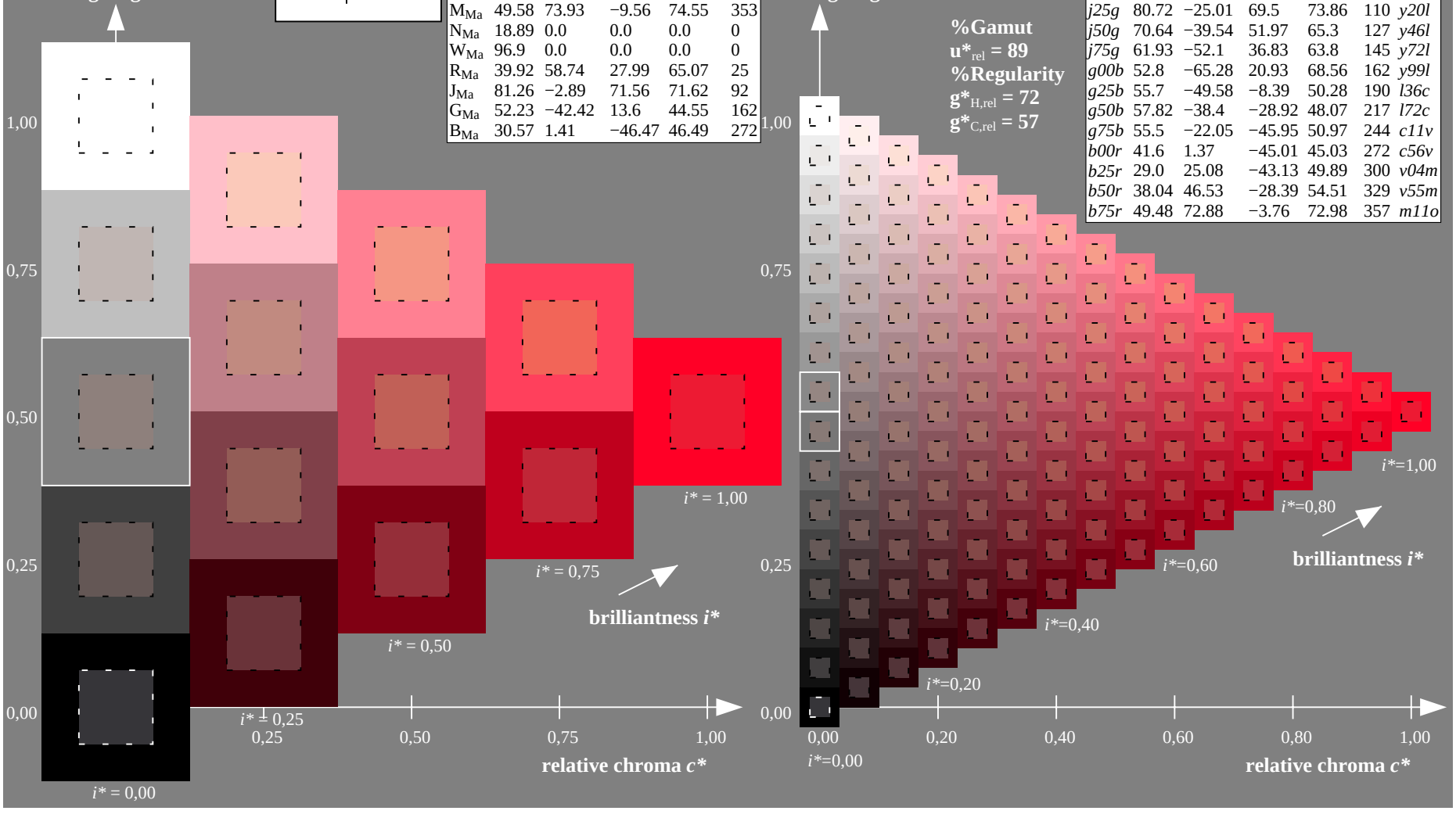
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 49 66 32**
LAB*LCH*$_{Ma}$**: 49 74 25**
lab*rgb*$_{Ma}$**: 1.0 0.0 0.0**
lab*olv*$_{Ma}$**: 1.0 0.0 0.15**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

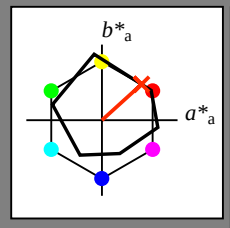
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117** **u^*_e = *r25j***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

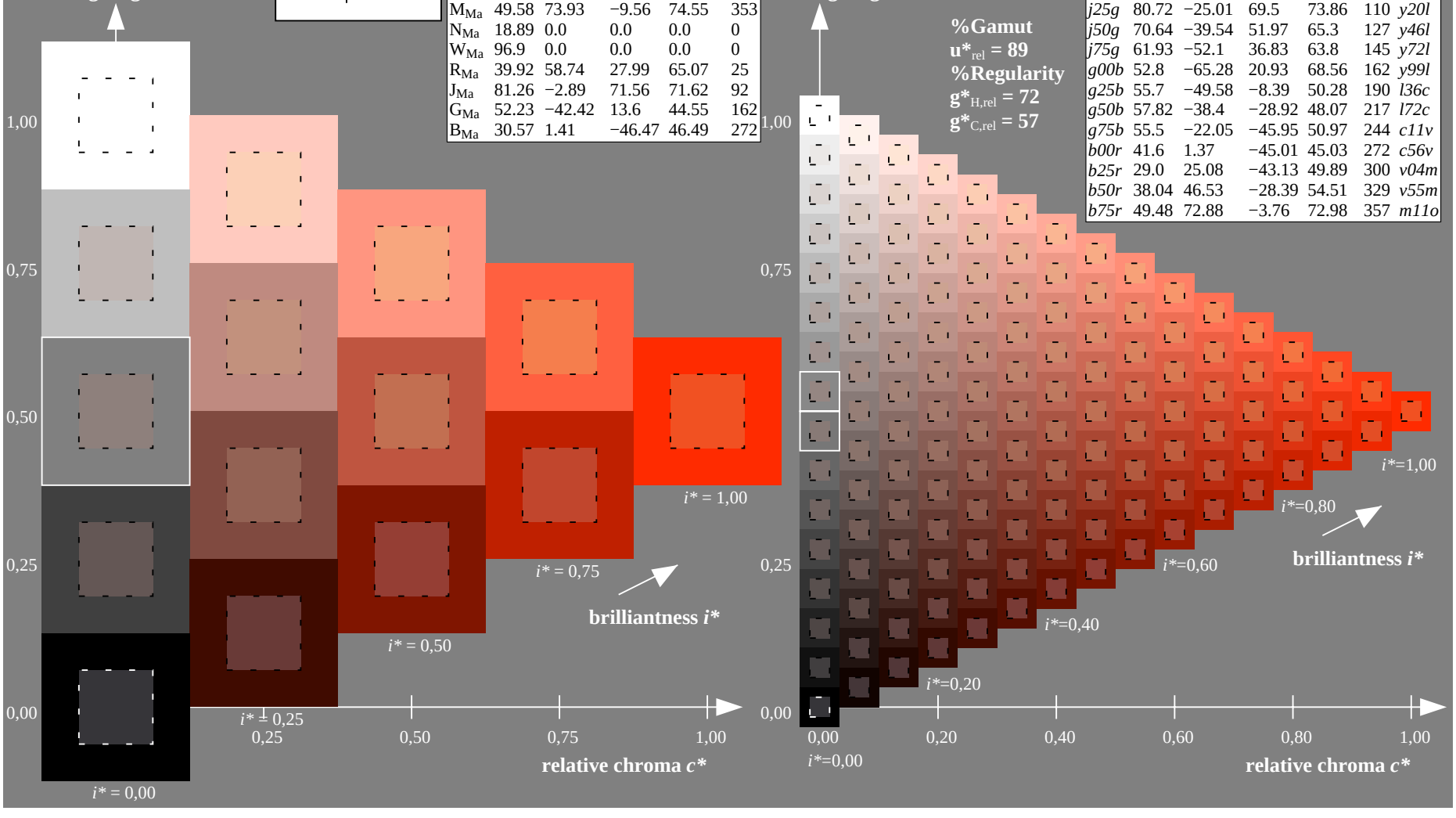
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 56 52 47**
LAB*LCH*$_{Ma}$**: 56 71 42**
lab*rgb*$_{Ma}$**: 1.0 0.25 0.0**
lab*olv*$_{Ma}$**: 1.0 0.17 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

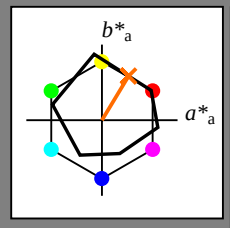
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164** **u^*_e = *r50j***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

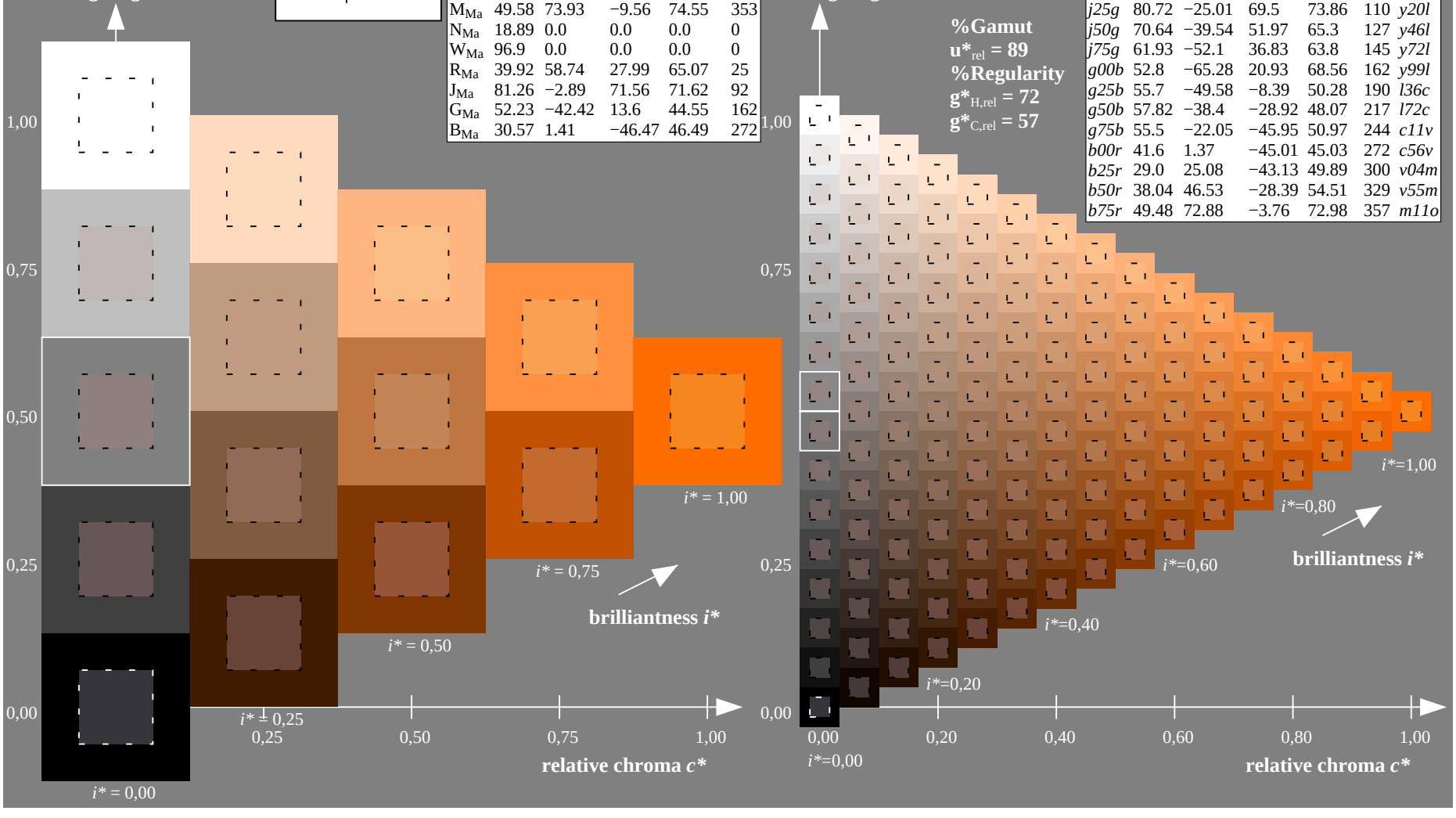
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

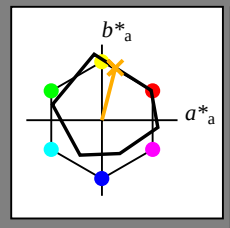
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21** **u^*_e = *r75j***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

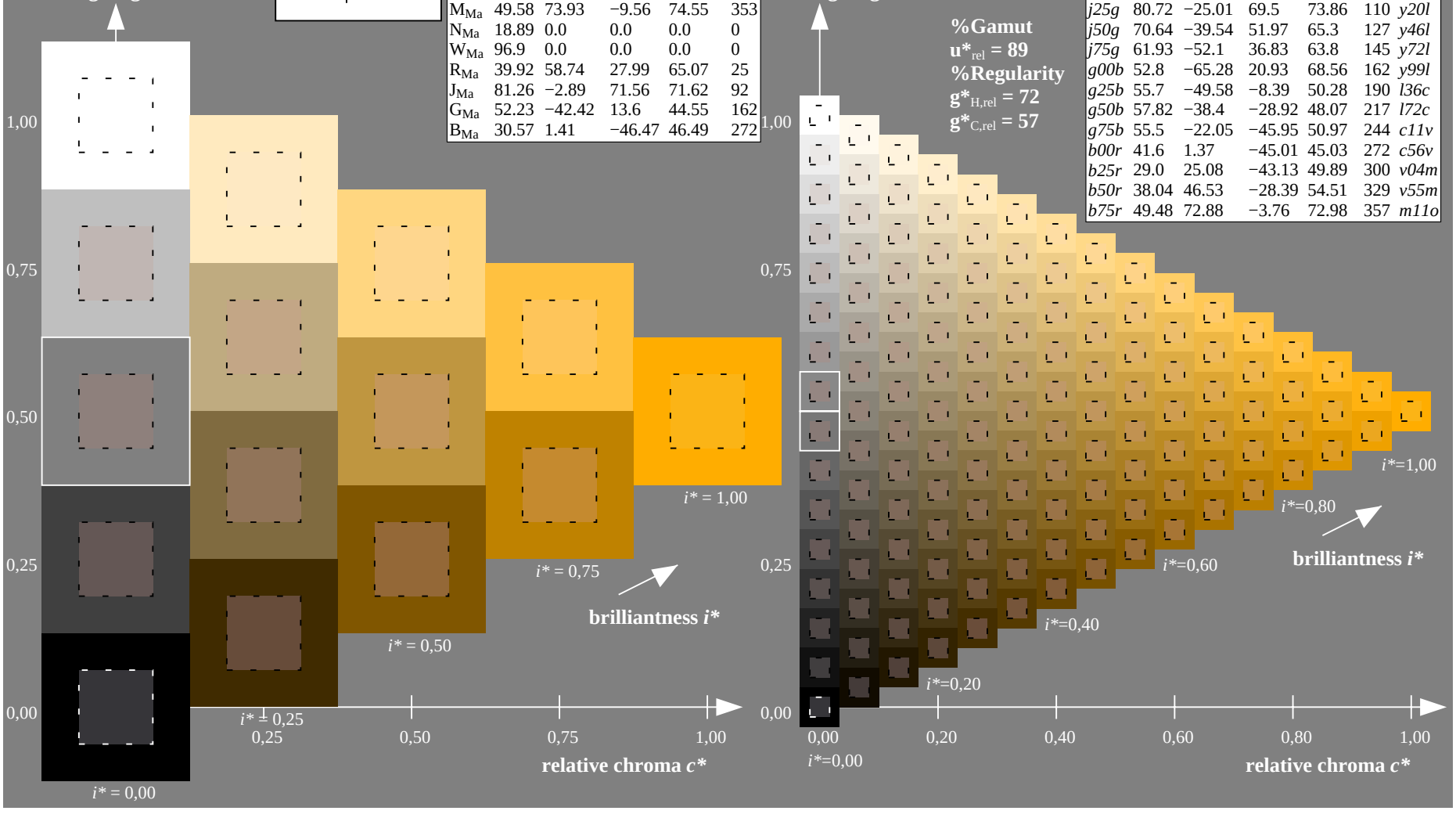
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 75 18 69**
LAB*LCH*$_{Ma}$**: 75 72 75**
lab*rgb*$_{Ma}$**: 1.0 0.75 0.0**
lab*olv*$_{Ma}$**: 1.0 0.68 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

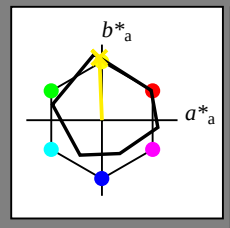
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256** **u^*_e = *j00g***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

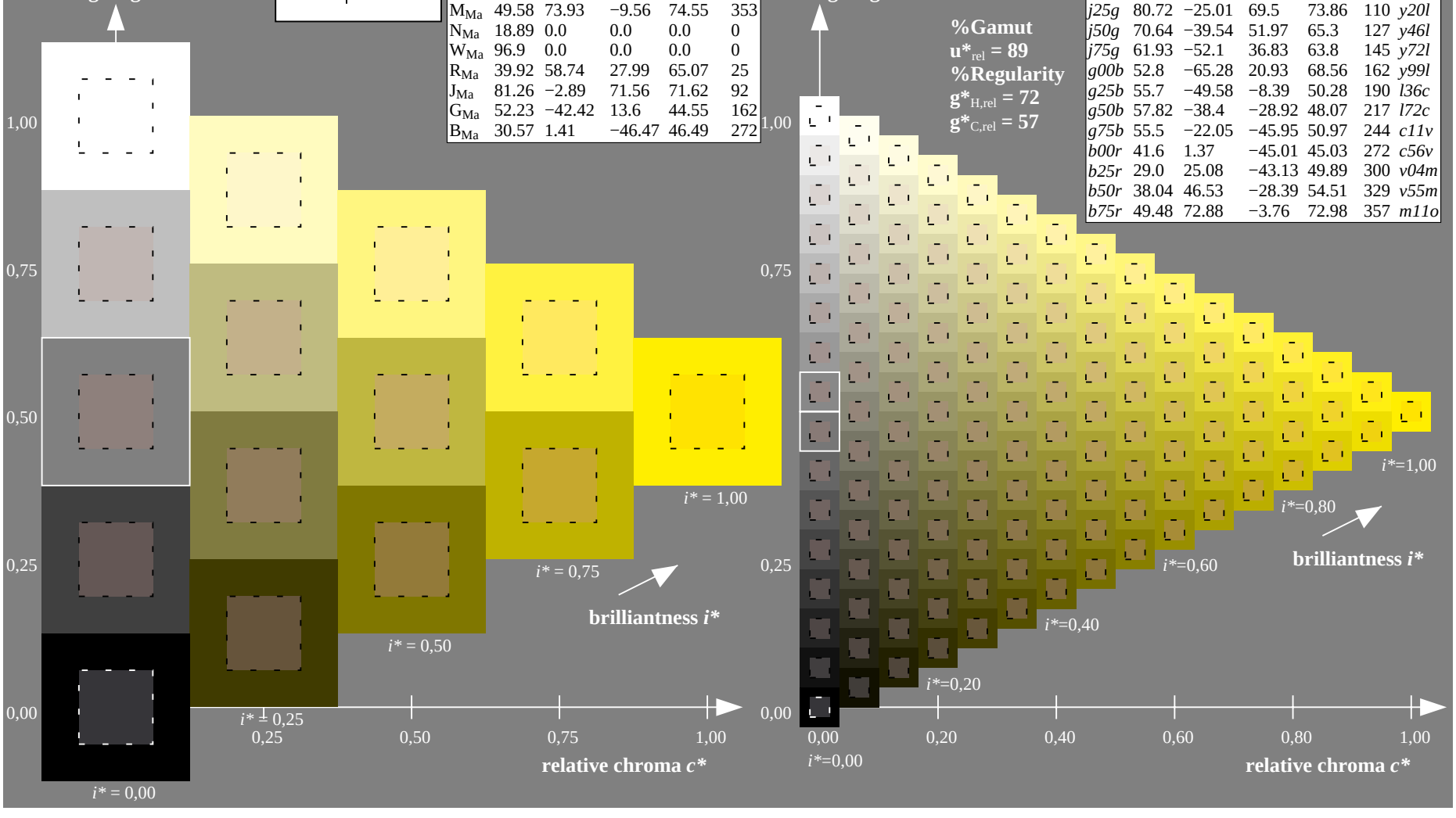
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 87 −3 83**
LAB*LCH*$_{Ma}$**: 87 83 92**
lab*rgb*$_{Ma}$**: 1.0 1.0 0.0**
lab*olv*$_{Ma}$**: 1.0 0.93 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

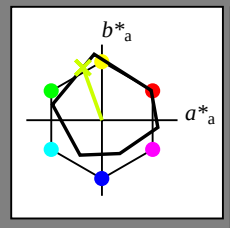
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.305**

u*e = j25g

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = j25g ***u*d = y20l***
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

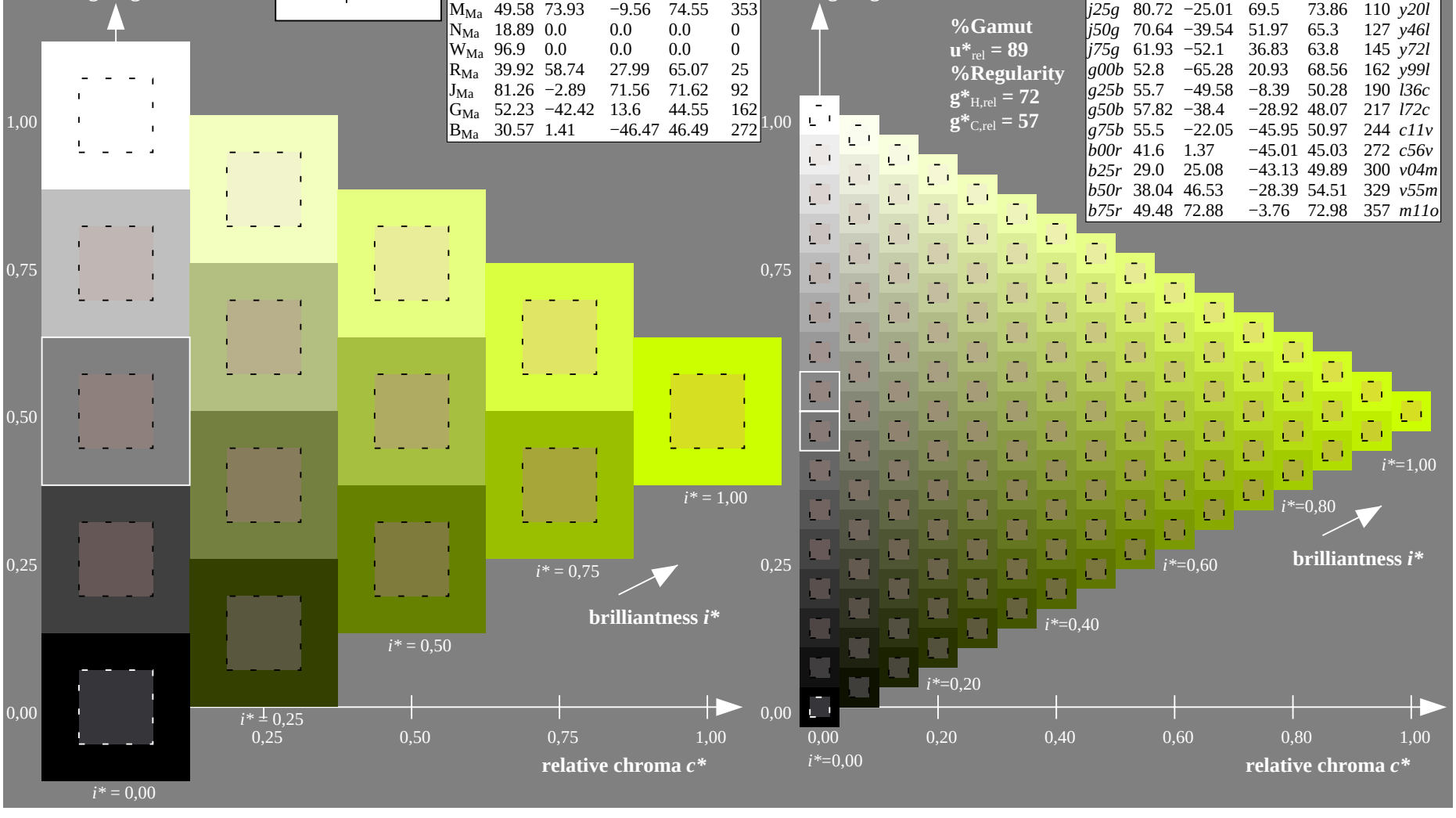
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 81 −25 69**
LAB*LCH*$_{Ma}$**: 81 74 109**
lab*rgb*$_{Ma}$**: 0.75 1.0 0.0**
lab*olv*$_{Ma}$**: 0.8 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

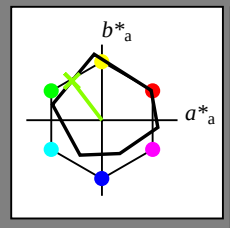
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

u*e = j50g

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e **= *j50g*** u^*_d **= *y46l***
contrast reduction factor:
c_R **= 1.0**
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

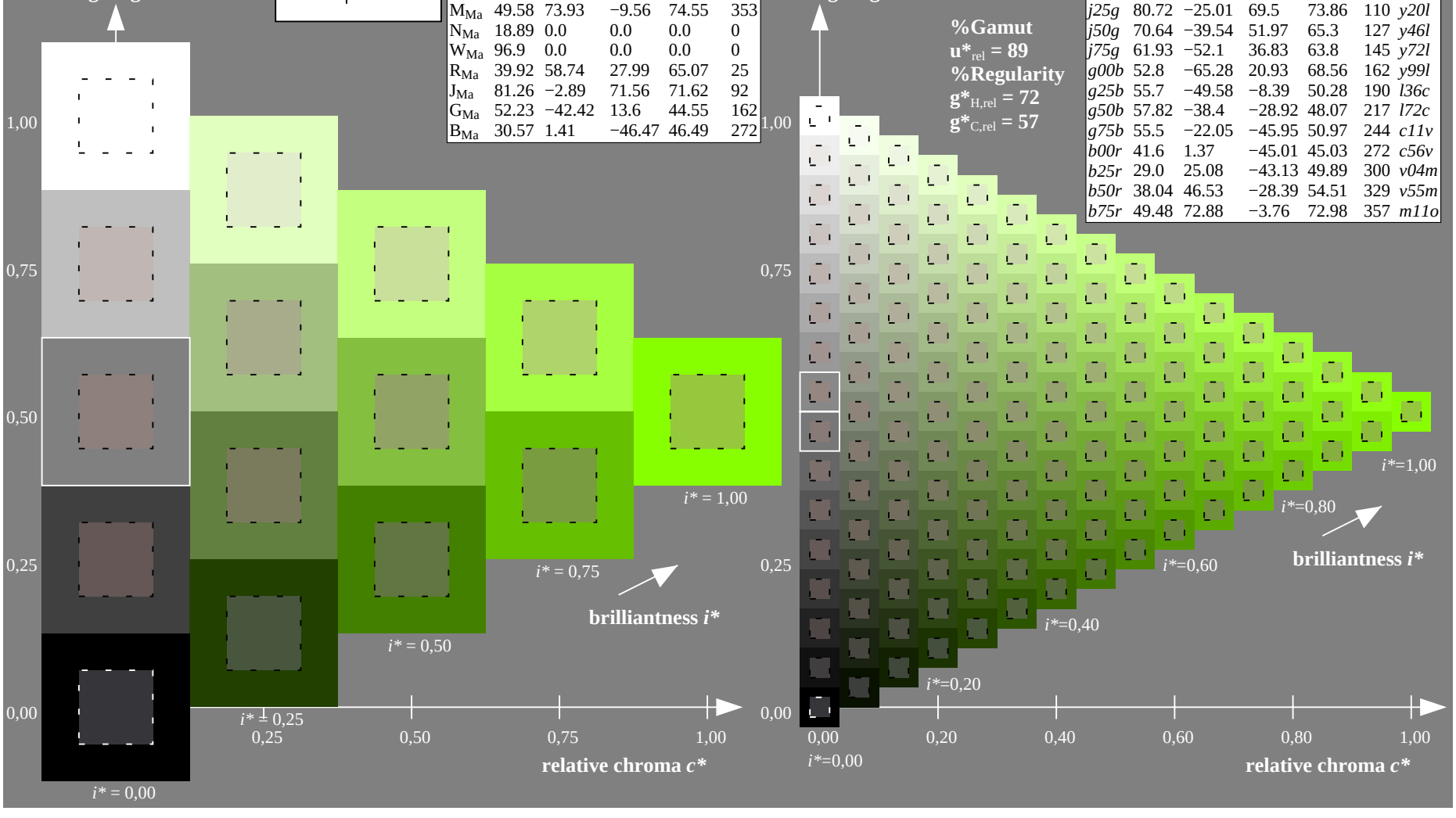
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 71 −40 52**
LAB*LCH*$_{Ma}$**: 71 65 127**
lab*rgb*$_{Ma}$**: 0.5 1.0 0.0**
lab*olv*$_{Ma}$**: 0.54 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} **= 89**
%Regularity
$g^*_{H,rel}$ **= 72**
$g^*_{C,rel}$ **= 57**

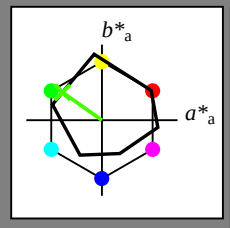
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402** **u^*_e = *j75g***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

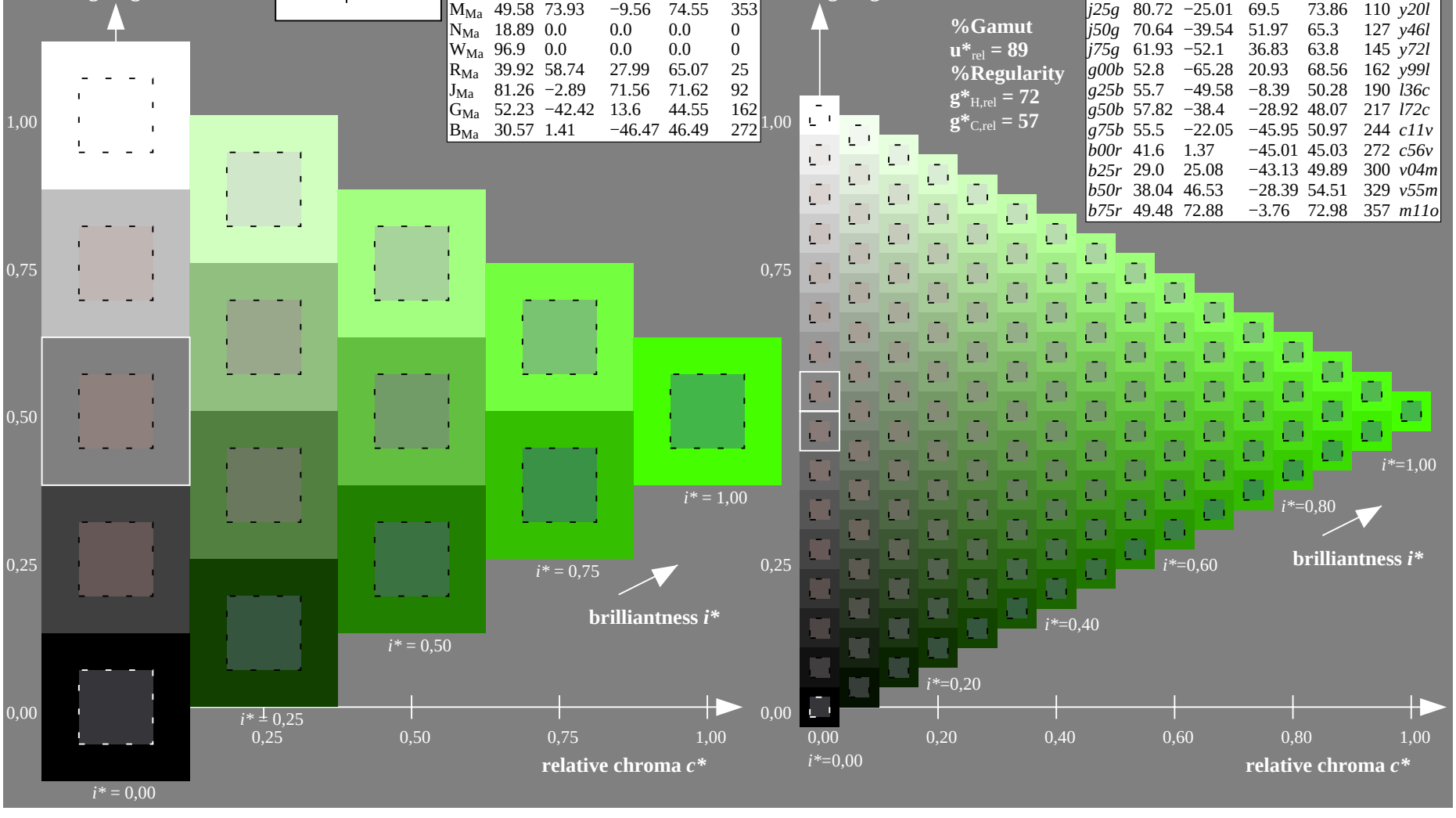
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 62 −52 37**
LAB*LCH*$_{Ma}$**: 62 64 144**
lab*rgb*$_{Ma}$**: 0.25 1.0 0.0**
lab*olv*$_{Ma}$**: 0.27 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

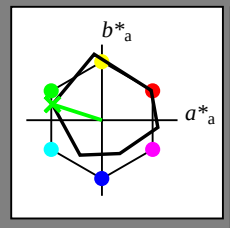
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.451** **u^*_e = *g00b***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *g00b* u^*_d = *y99l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

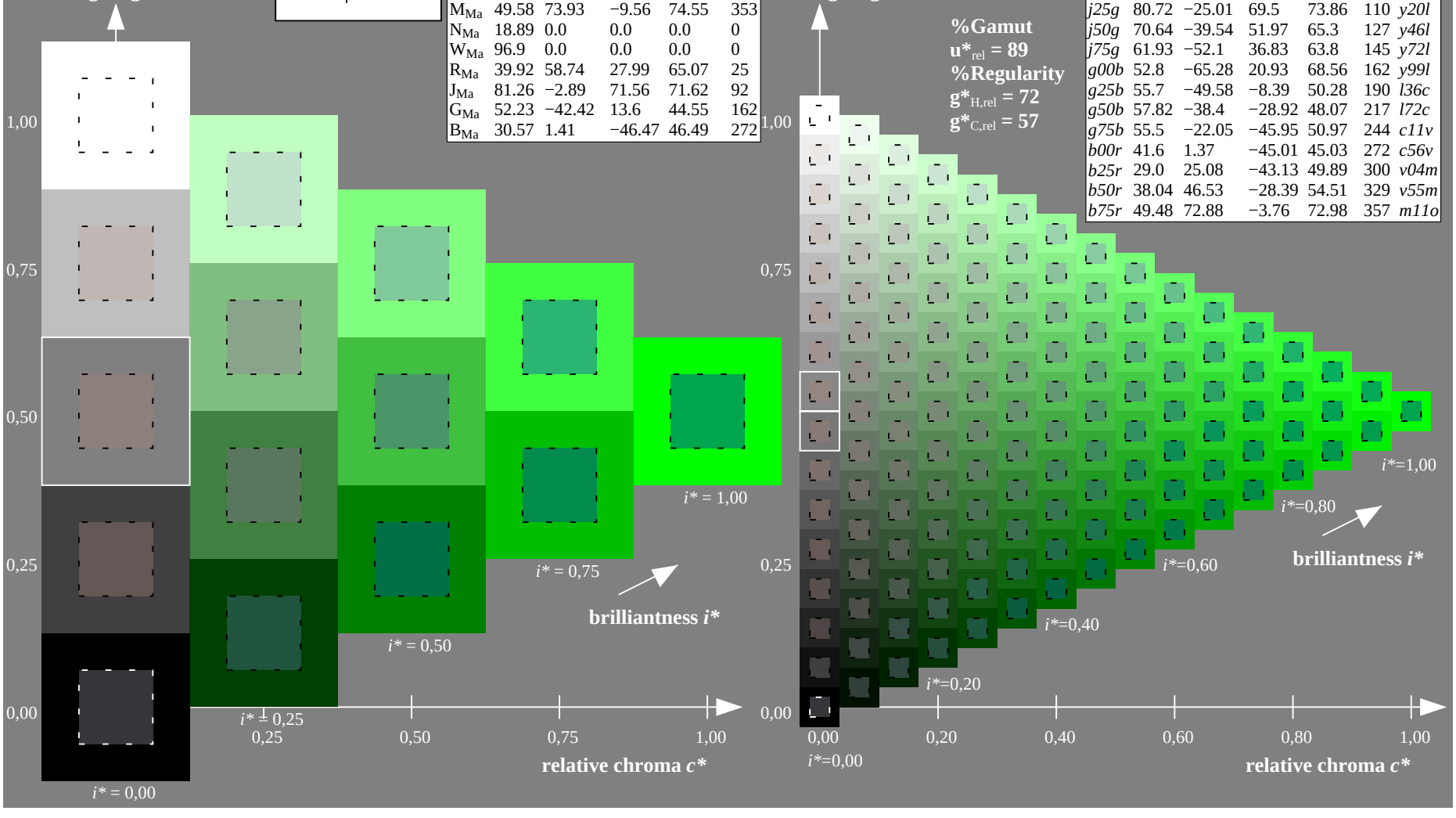
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 53 −65 21**
LAB*LCH*$_{Ma}$**: 53 69 162**
lab*rgb*$_{Ma}$**: 0.0 1.0 0.0**
lab*olv*$_{Ma}$**: 0.0 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

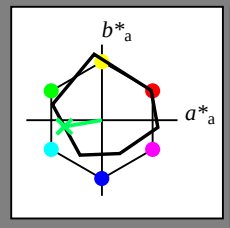
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = $h_{ab}/360$ = 0.527** **$u^*_e = g25b$**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
$u^*_e = g25b$ $u^*_d = l36c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

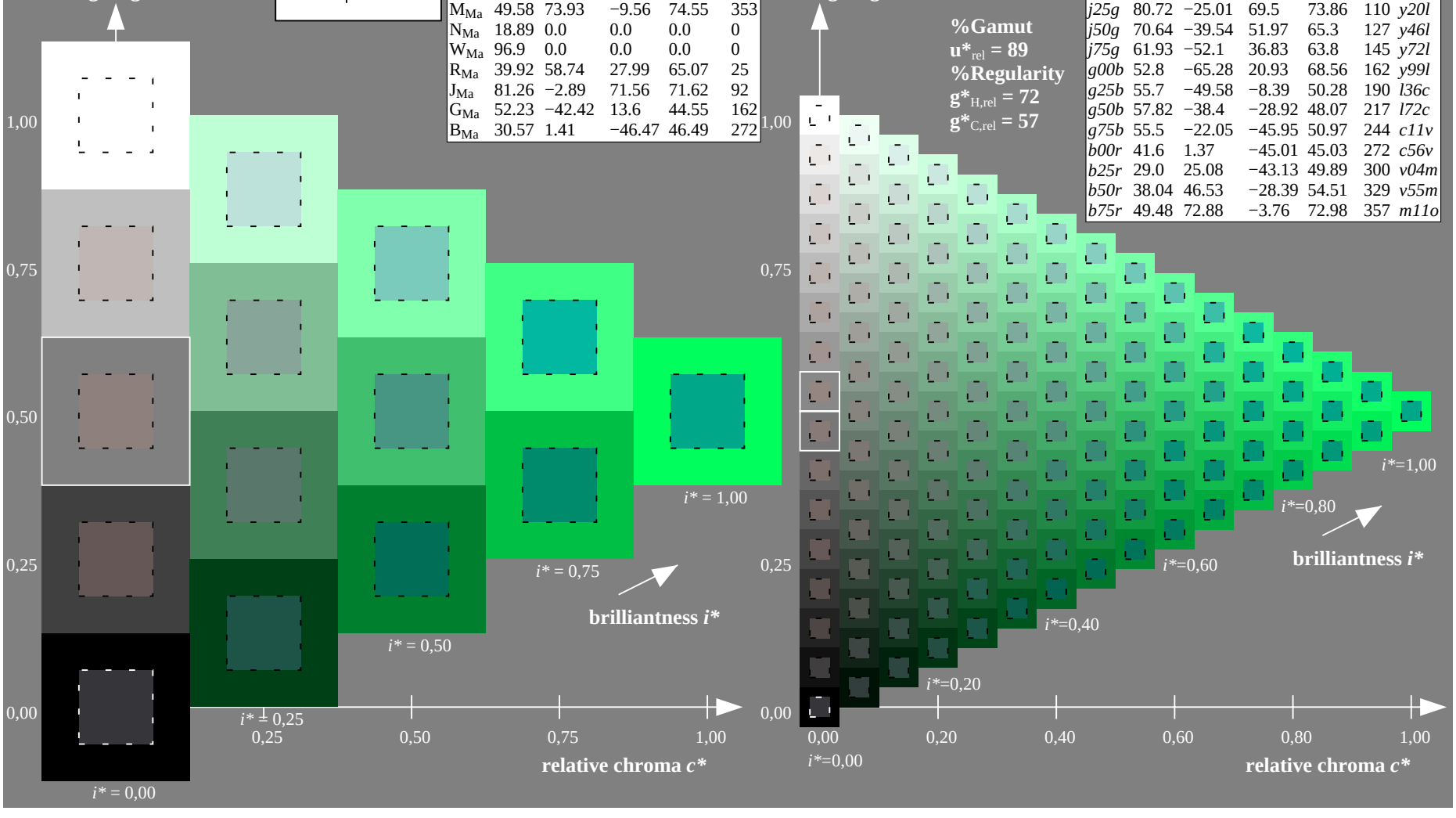
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 56 −50 −8**
LAB*LCH*$_{Ma}$**: 56 50 189**
lab*rgb*$_{Ma}$**: 0.0 1.0 0.5**
lab*olv*$_{Ma}$**: 0.0 1.0 0.36**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

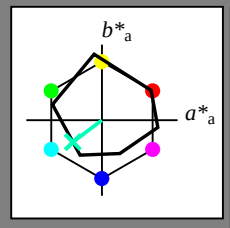
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.603** **$u^*_e = g50b$**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
$u^*_e = g50b$ $u^*_d = l72c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

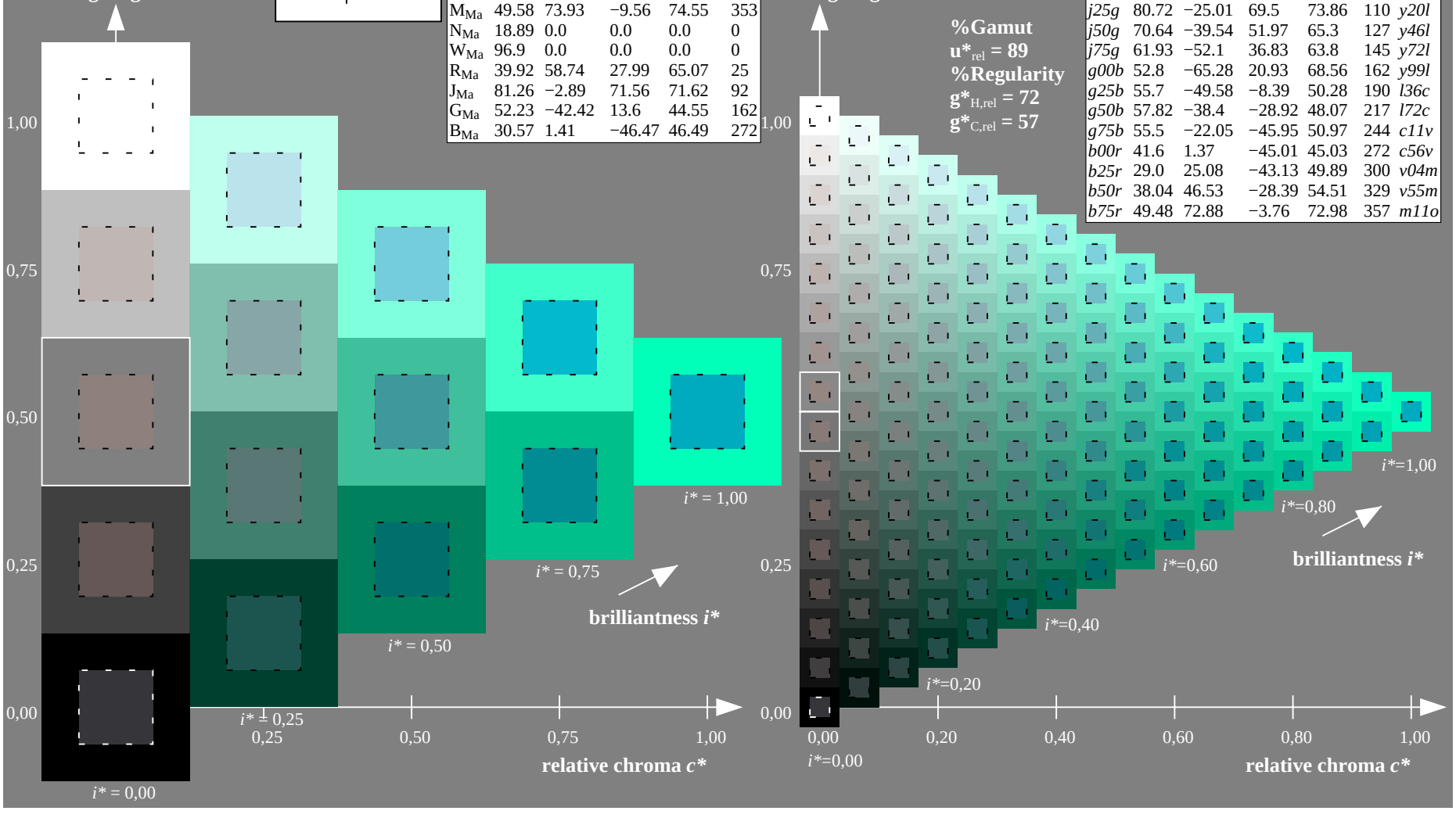
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 58 −38 −29**
LAB*LCH*$_{Ma}$**: 58 48 216**
lab*rgb*$_{Ma}$**: 0.0 1.0 1.0**
lab*olv*$_{Ma}$**: 0.0 1.0 0.72**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

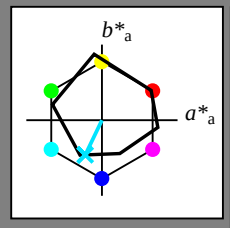
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.679** **u^*_e = *g75b***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *g75b* u^*_d = *c11v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

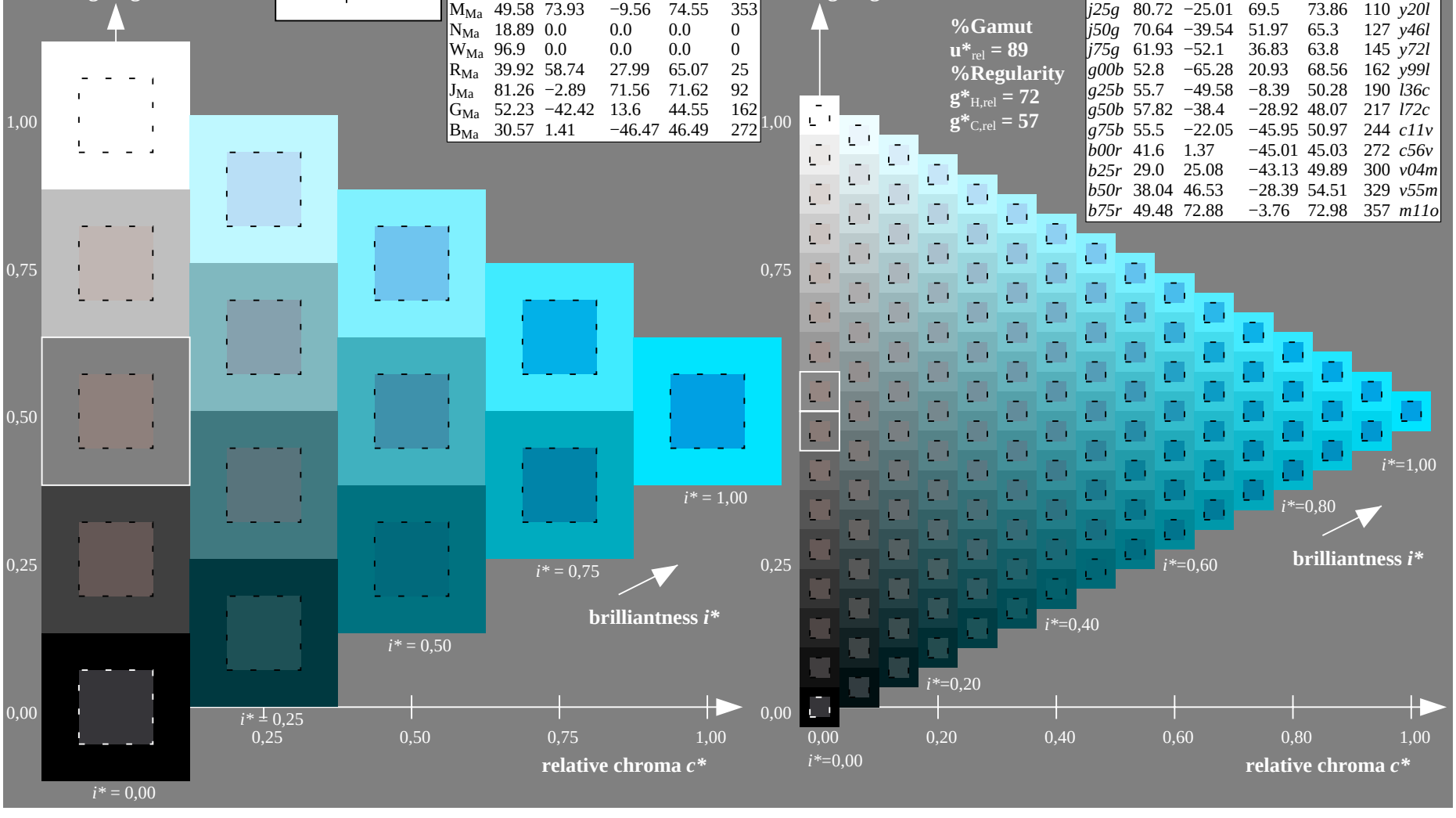
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 55 −22 −46**
LAB*LCH*$_{Ma}$**: 55 51 244**
lab*rgb*$_{Ma}$**: 0.0 0.5 1.0**
lab*olv*$_{Ma}$**: 0.0 0.89 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

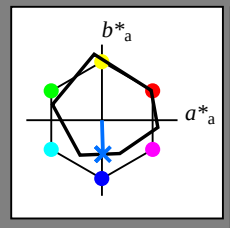
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.755** **u^*_e = *b00r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

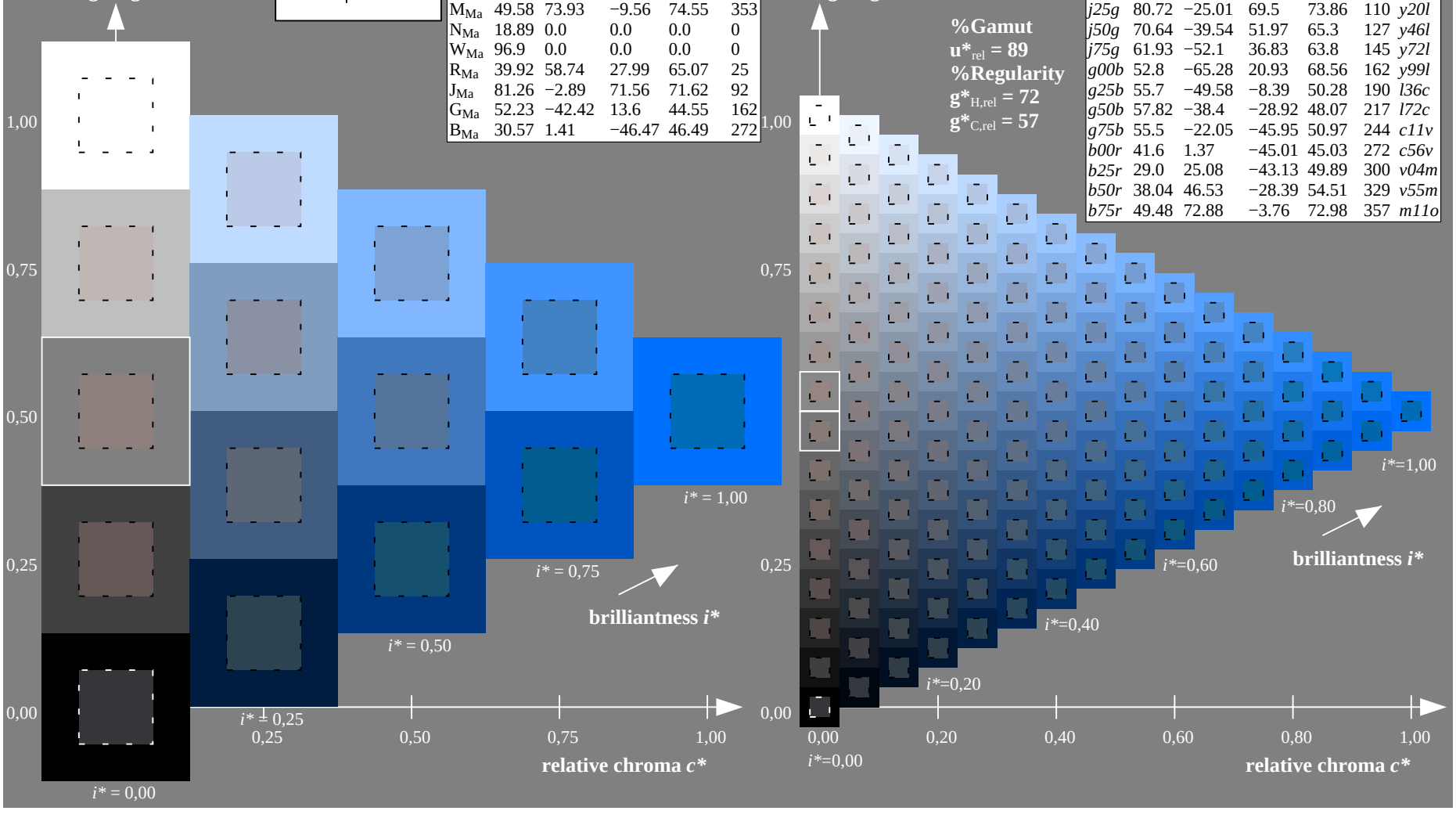
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 42 1 −45**
LAB*LCH*$_{Ma}$**: 42 45 271**
lab*rgb*$_{Ma}$**: 0.0 0.0 1.0**
lab*olv*$_{Ma}$**: 0.0 0.44 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

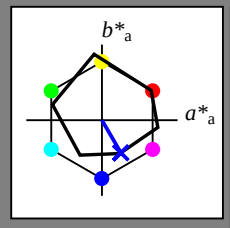
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.834** **u^*_e = *b25r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

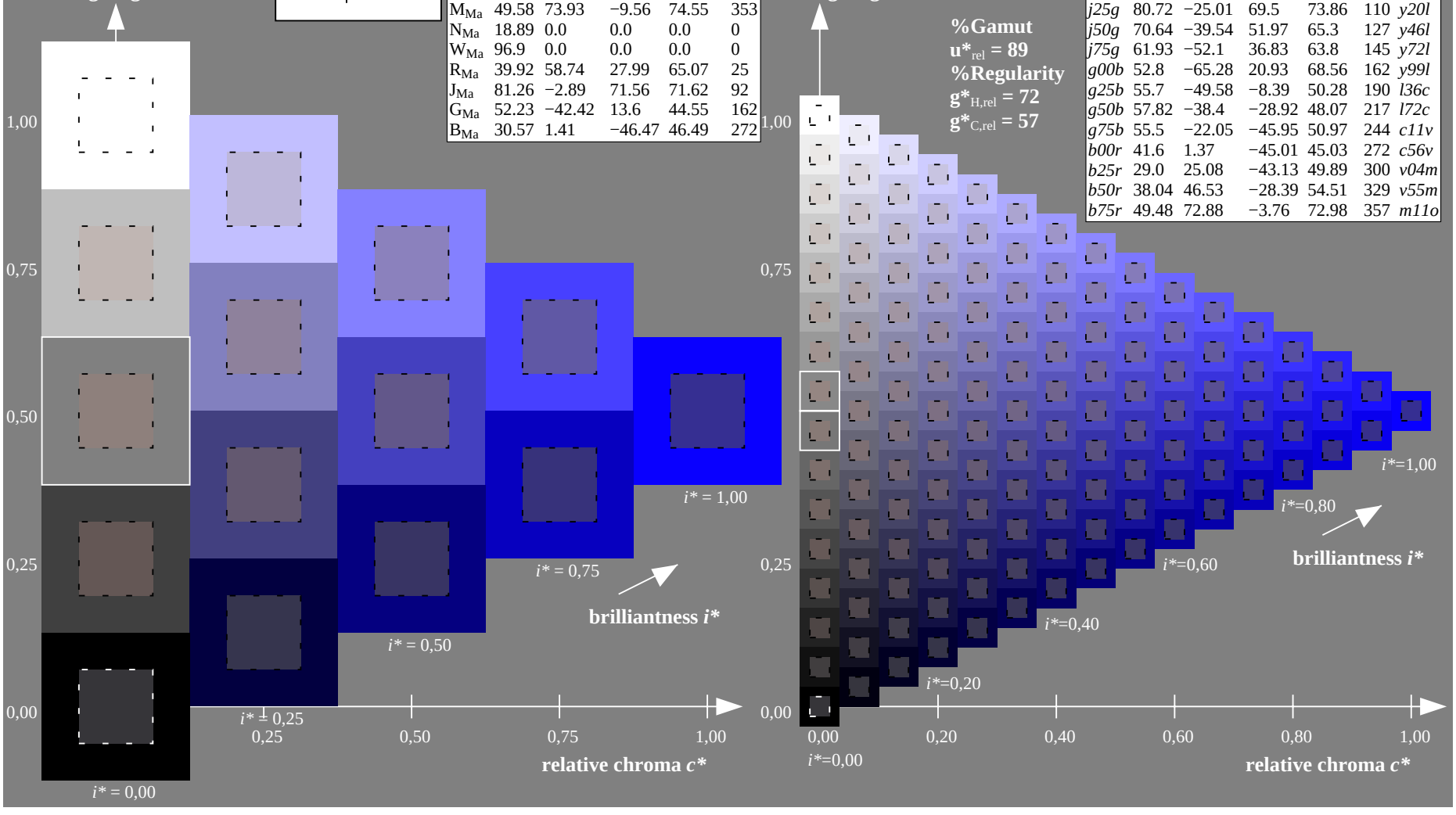
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 29 25 −43**
LAB*LCH*$_{Ma}$**: 29 50 300**
lab*rgb*$_{Ma}$**: 0.5 0.0 1.0**
lab*olv*$_{Ma}$**: 0.04 0.0 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

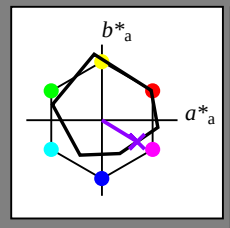
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.913** **u^*_e = *b50r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

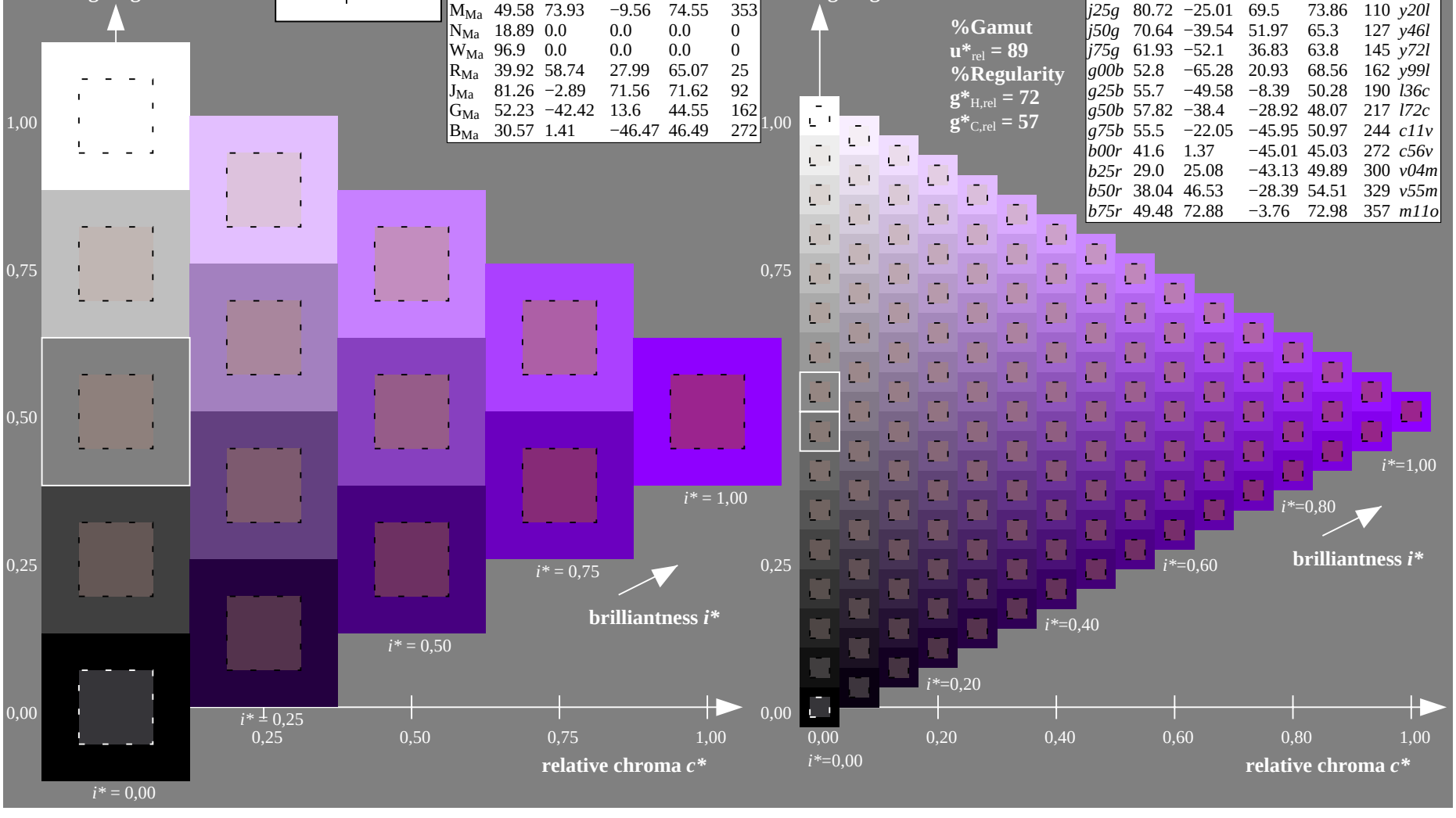
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 38 47 −28**
LAB*LCH*$_{Ma}$**: 38 55 328**
lab*rgb*$_{Ma}$**: 1.0 0.0 1.0**
lab*olv*$_{Ma}$**: 0.56 0.0 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

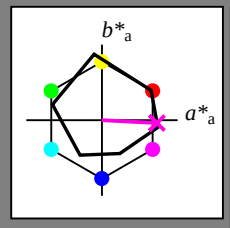
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992** **u^*_e = *b75r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

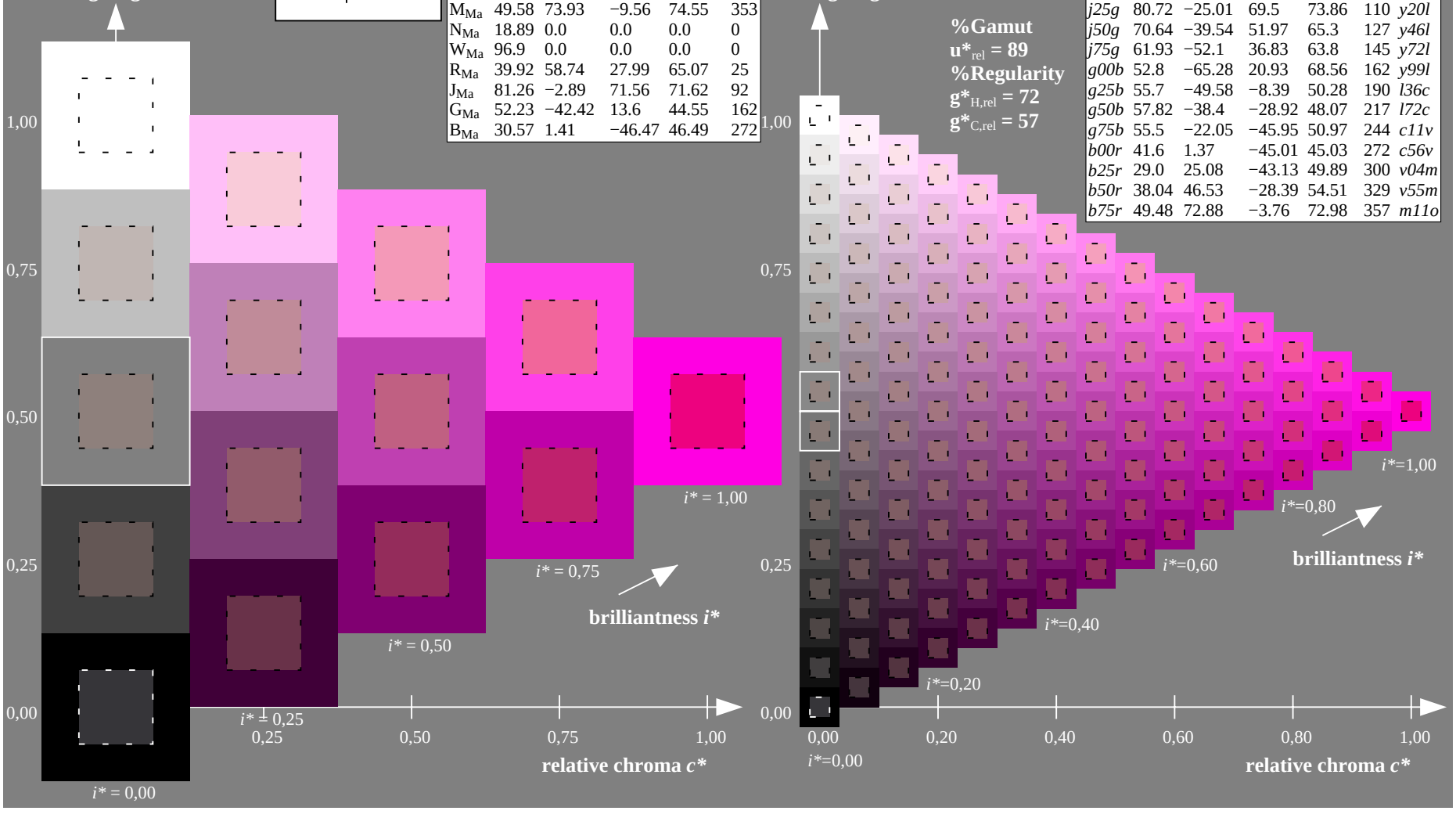
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

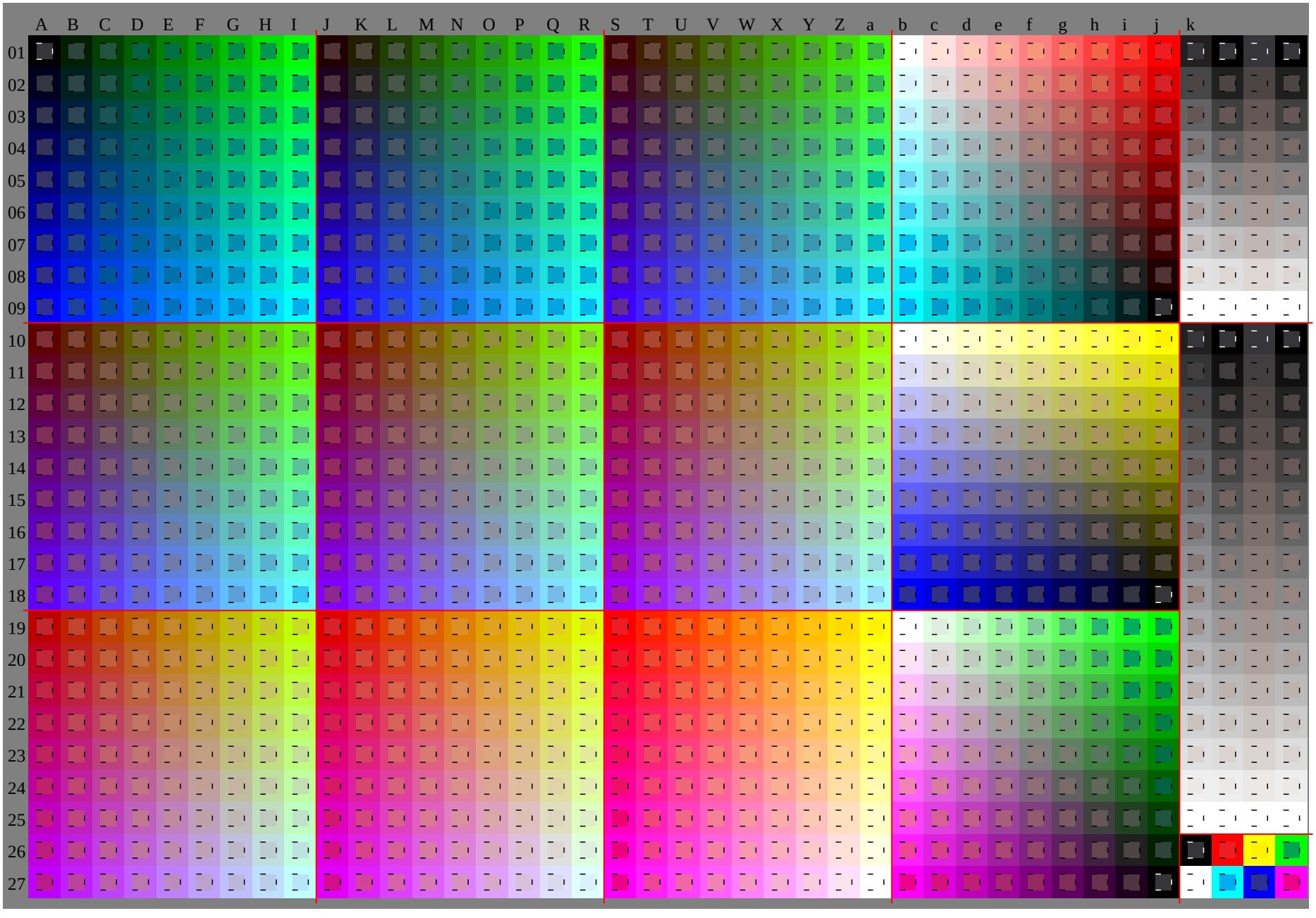
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 49 73 −4**
LAB*LCH*$_{Ma}$**: 49 73 357**
lab*rgb*$_{Ma}$**: 1.0 0.0 0.5**
lab*olv*$_{Ma}$**: 1.0 0.0 0.89**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

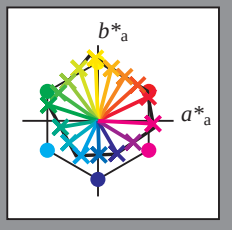




Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

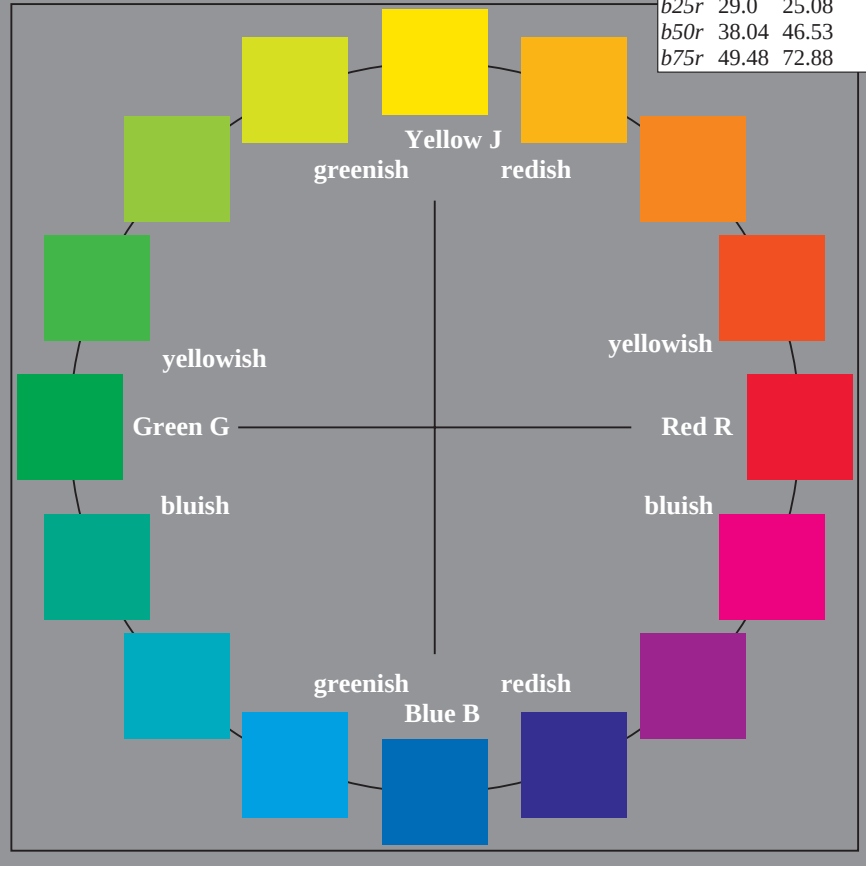
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

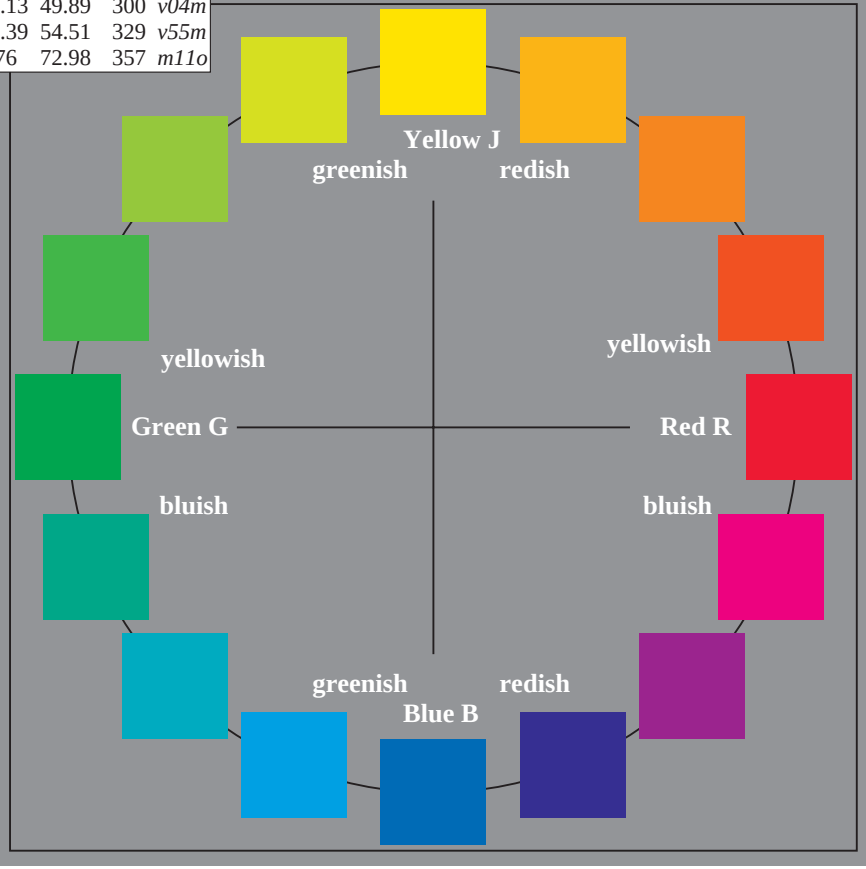


%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

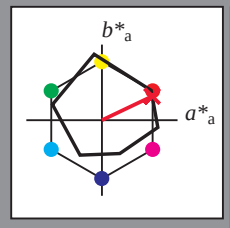




Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

u*e = r00j

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = r00j ***u*d = m84o***
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

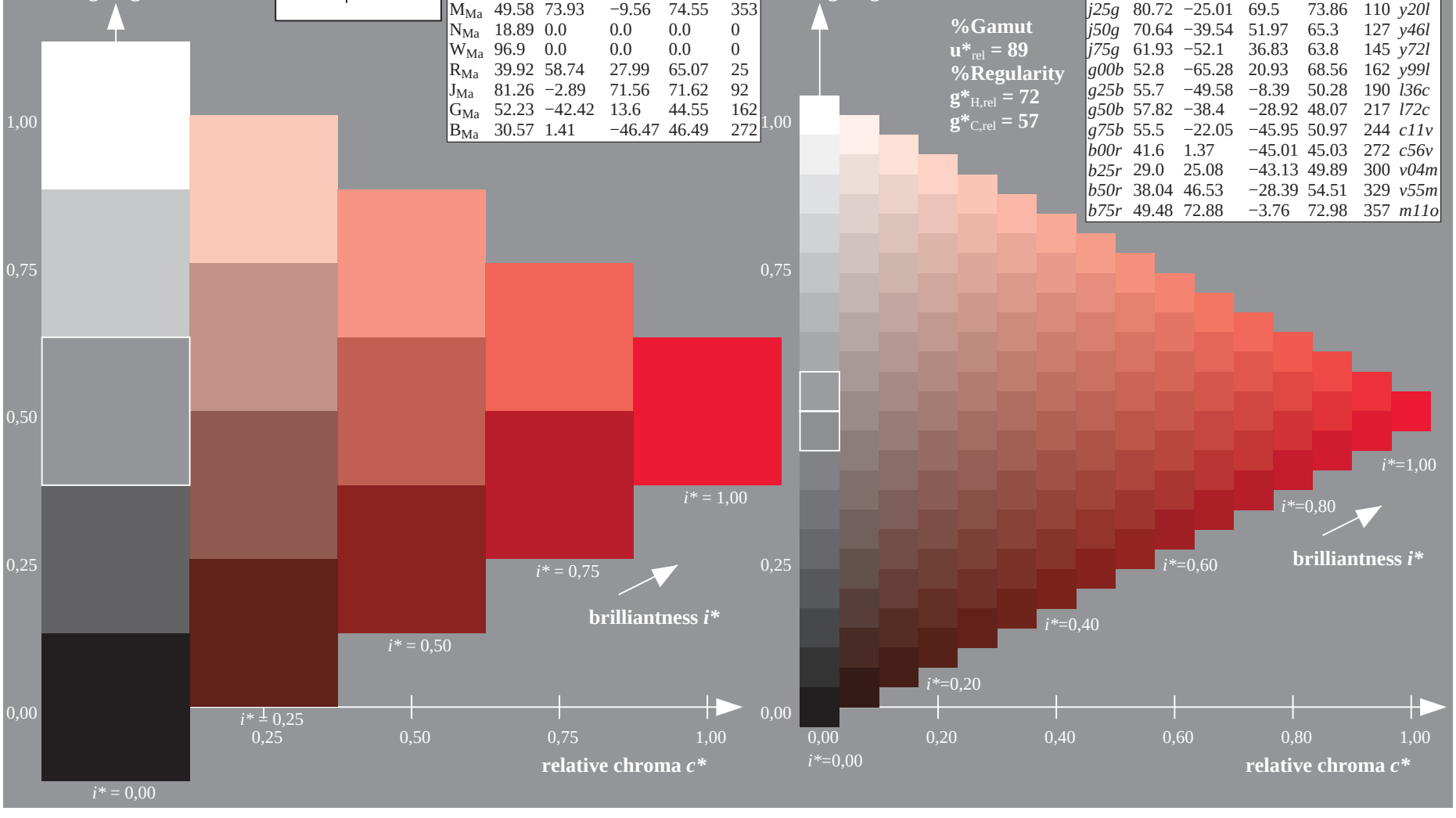
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 49 66 32**
LAB*LCH*$_{Ma}$**: 49 74 25**
lab*rgb*$_{Ma}$**: 1.0 0.0 0.0**
lab*olv*$_{Ma}$**: 1.0 0.0 0.15**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

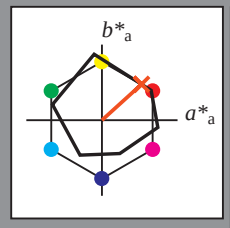
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

u*e = r25j

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = r25j ***u*d = o17y***
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

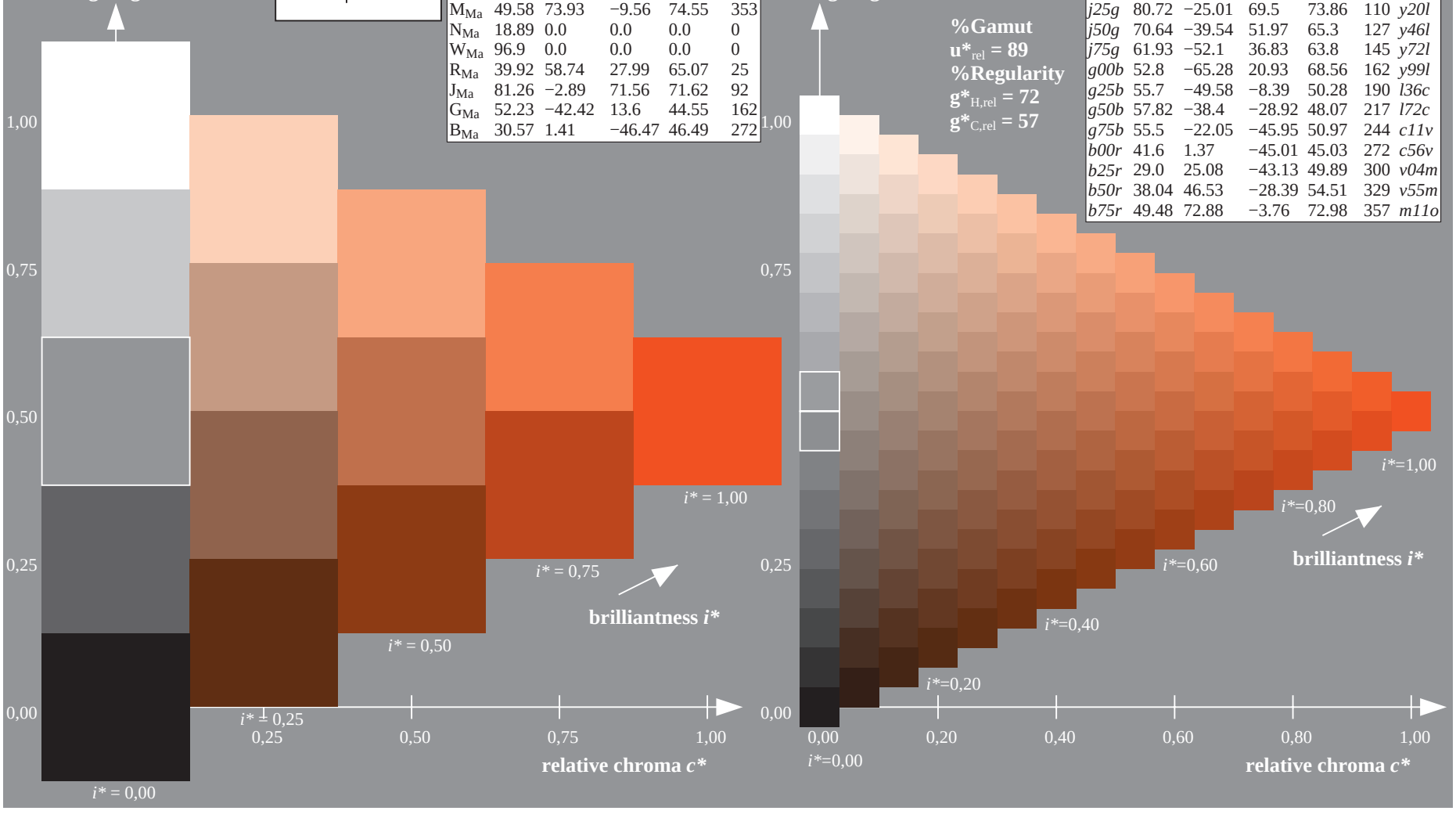
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 56 52 47**
LAB*LCH*$_{Ma}$**: 56 71 42**
lab*rgb*$_{Ma}$**: 1.0 0.25 0.0**
lab*olv*$_{Ma}$**: 1.0 0.17 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

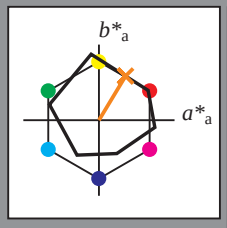
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

u*e = r50j

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = r50j ***u*d = o42y***
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

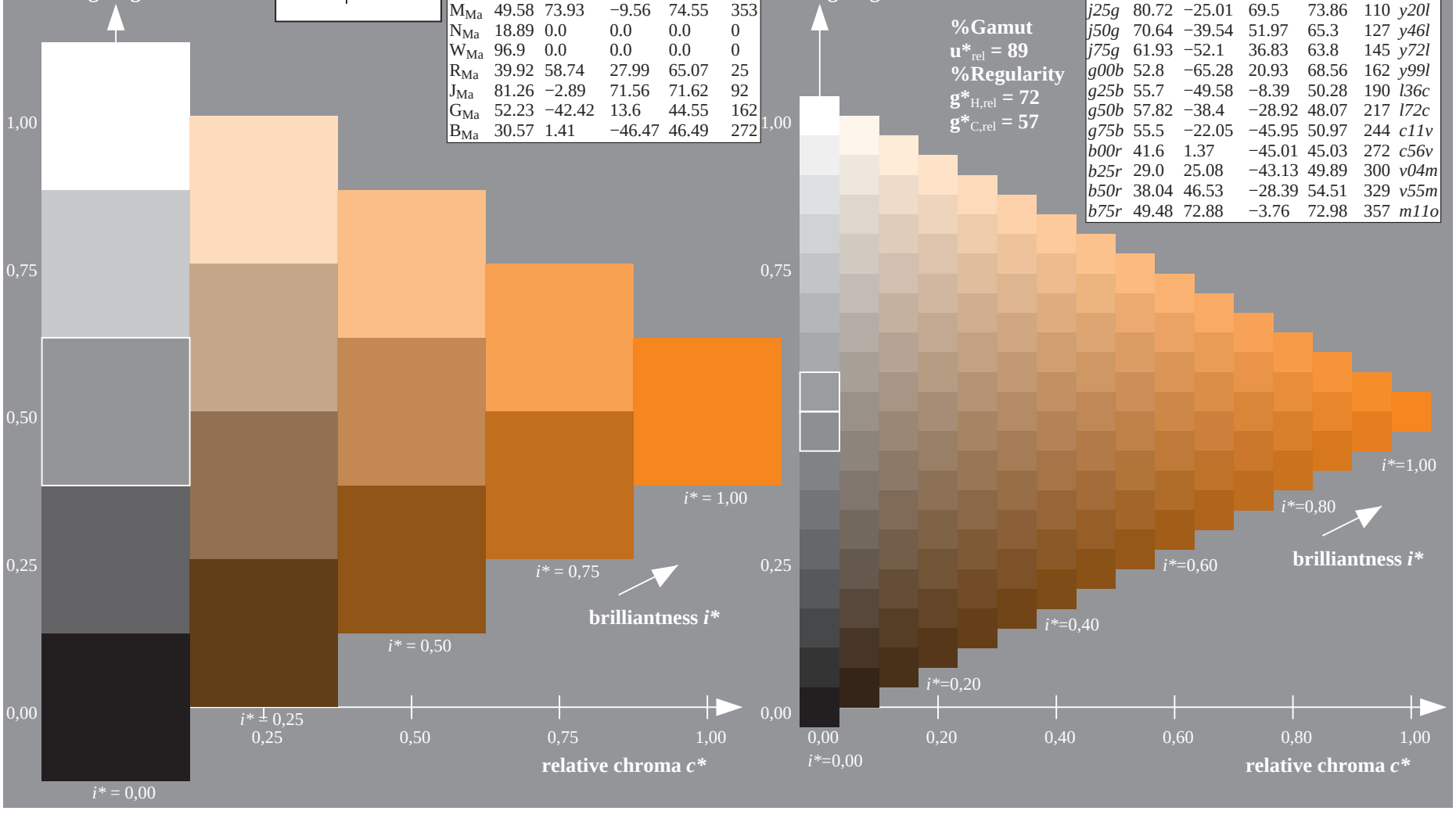
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

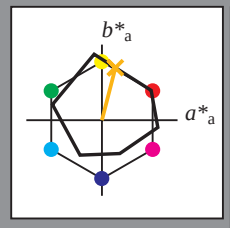
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

u*e = r75j

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = r75j ***u*d = o67y***
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

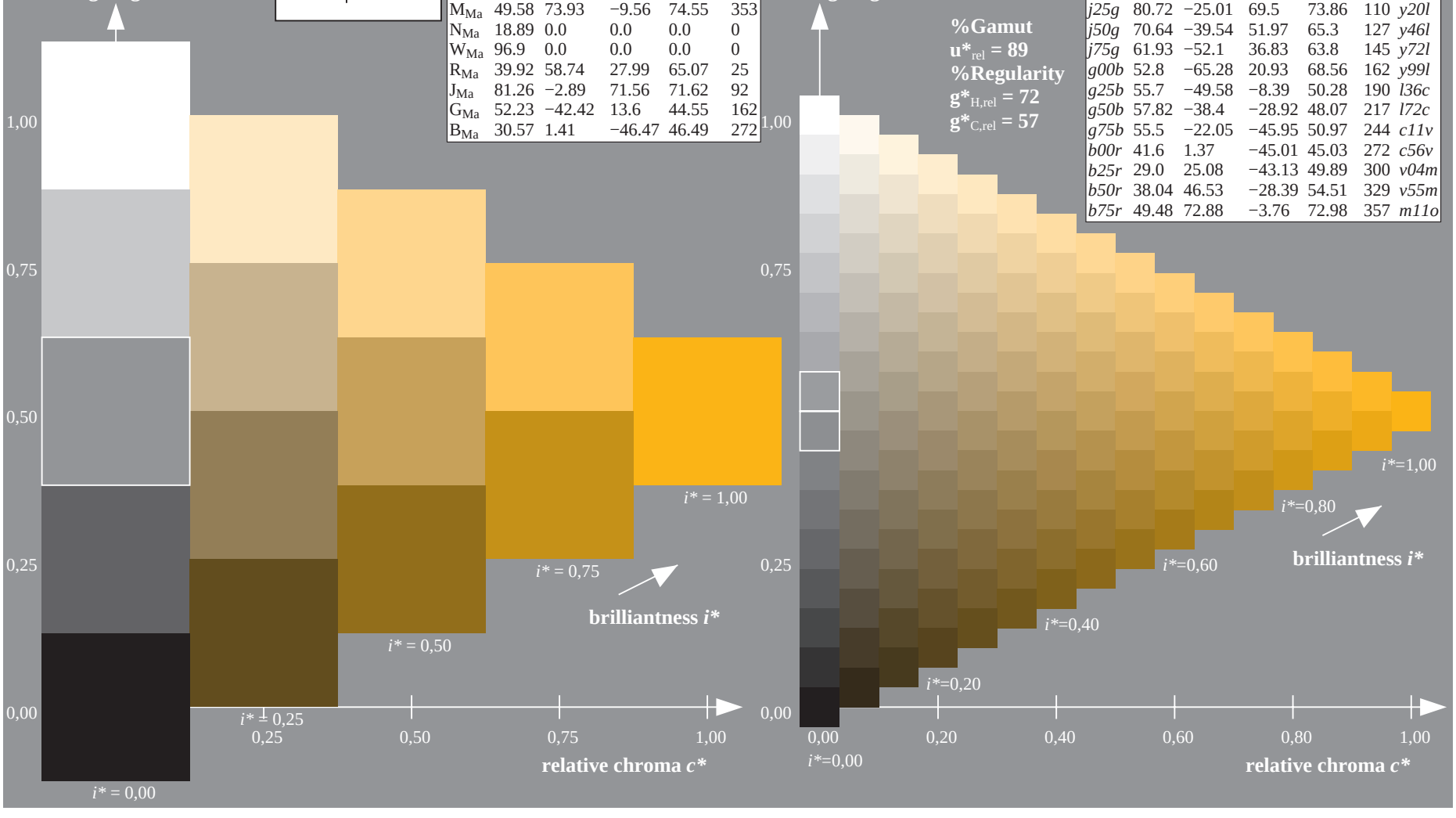
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 75 18 69**
LAB*LCH*$_{Ma}$**: 75 72 75**
lab*rgb*$_{Ma}$**: 1.0 0.75 0.0**
lab*olv*$_{Ma}$**: 1.0 0.68 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

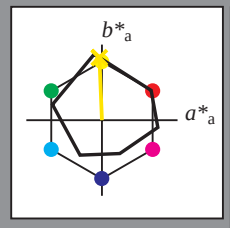
ORS19_96a; adapted (a) CIELAB data

*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256** **u^*_e = *j00g***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

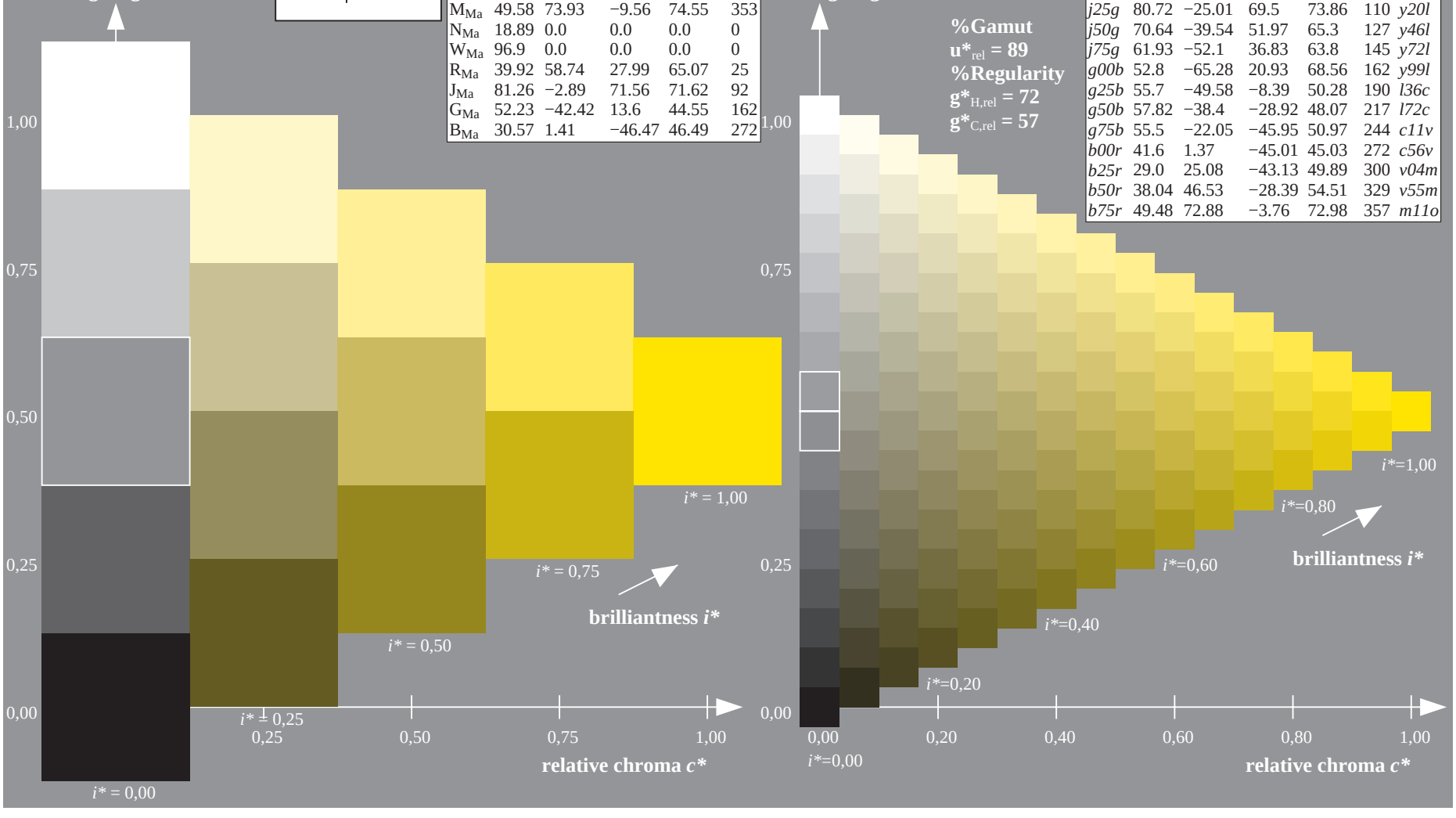
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 87 −3 83**
LAB*LCH*$_{Ma}$**: 87 83 92**
lab*rgb*$_{Ma}$**: 1.0 1.0 0.0**
lab*olv*$_{Ma}$**: 1.0 0.93 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

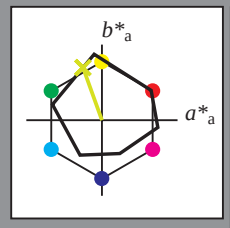
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.305** ***u*e = j25g***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = j25g ***u*d = y20l***
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

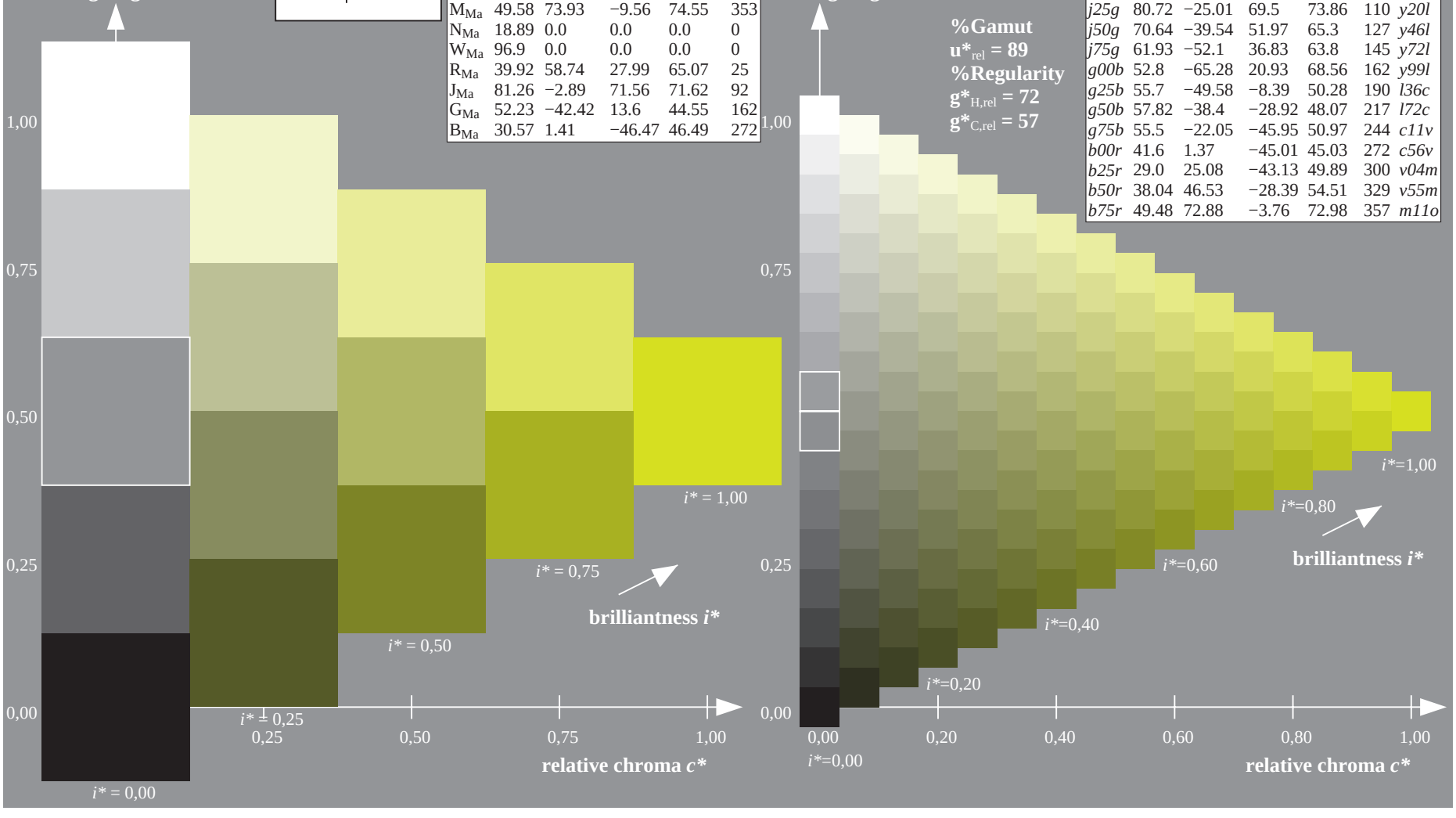
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 81 −25 69**
LAB*LCH*$_{Ma}$**: 81 74 109**
lab*rgb*$_{Ma}$**: 0.75 1.0 0.0**
lab*olv*$_{Ma}$**: 0.8 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

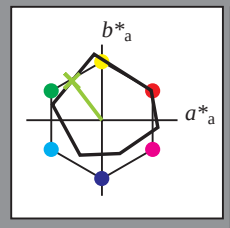
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

u*e = j50g

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = j50g ***u*d = y46l***
contrast reduction factor:
c_R **= 1.0**
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

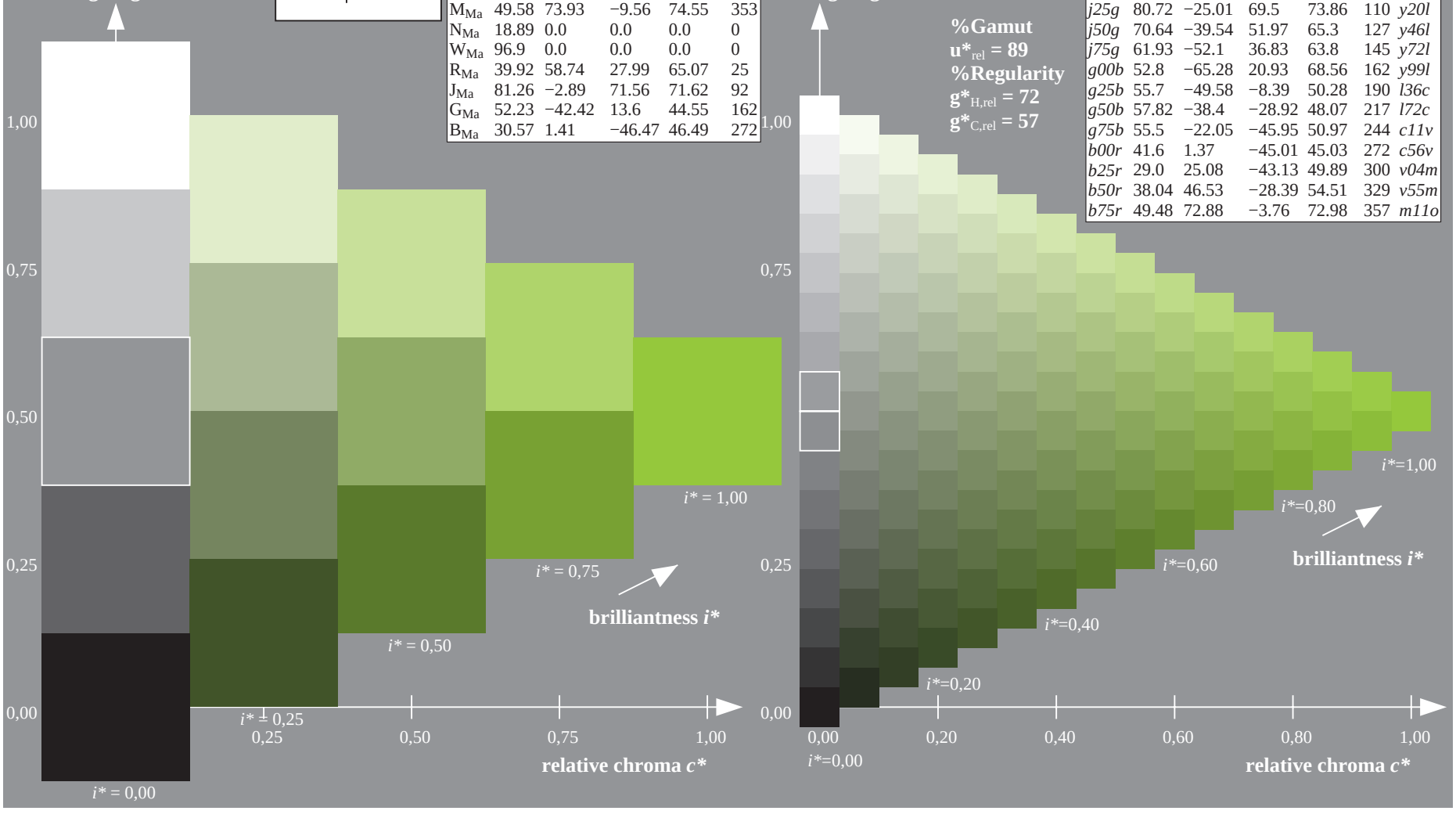
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 71 −40 52**
LAB*LCH*$_{Ma}$**: 71 65 127**
lab*rgb*$_{Ma}$**: 0.5 1.0 0.0**
lab*olv*$_{Ma}$**: 0.54 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

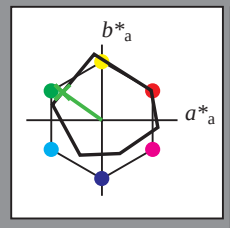
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402**

u*e = j75g

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = j75g ***u*d = y72l***
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

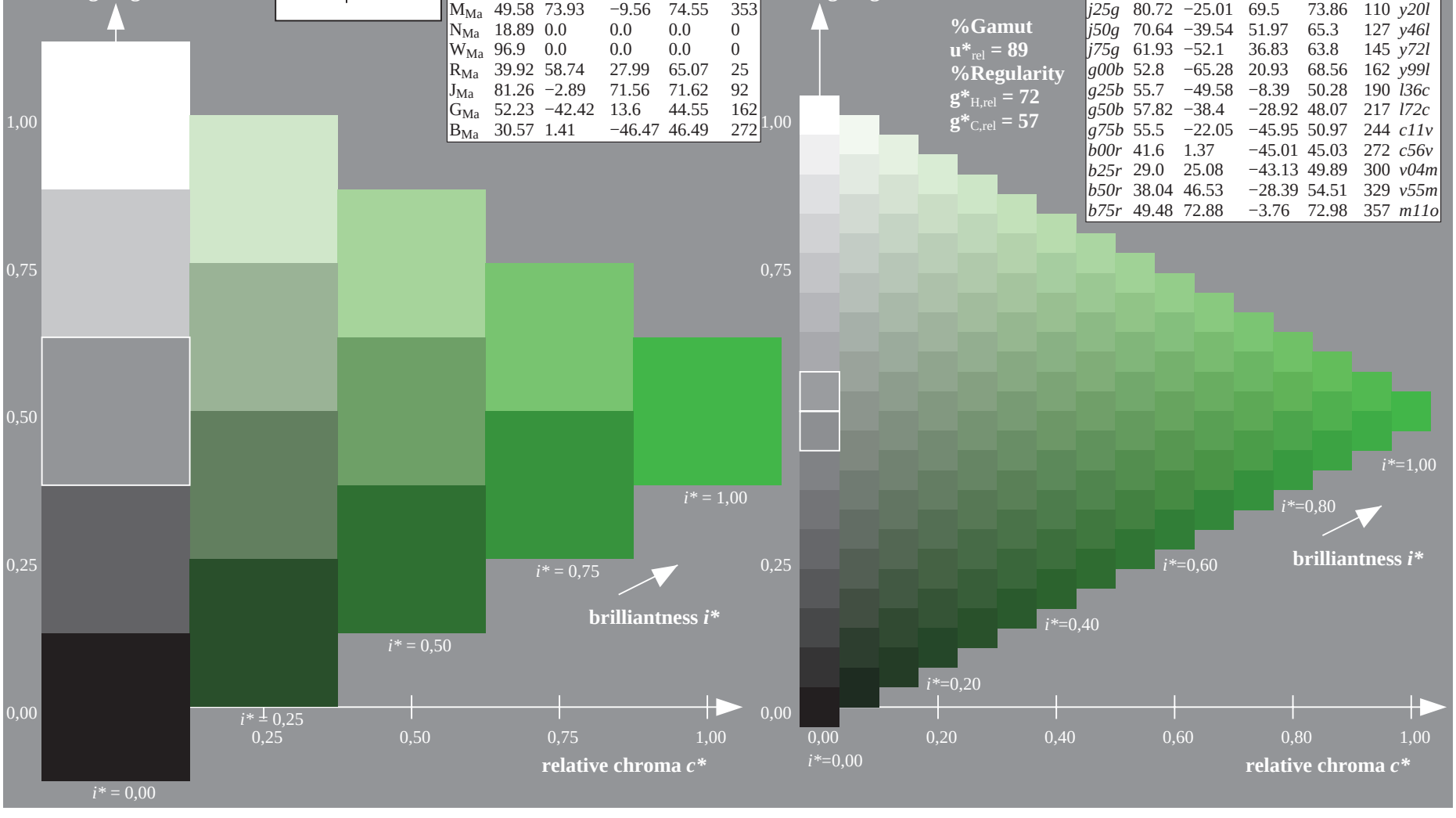
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 62 −52 37**
LAB*LCH*$_{Ma}$**: 62 64 144**
lab*rgb*$_{Ma}$**: 0.25 1.0 0.0**
lab*olv*$_{Ma}$**: 0.27 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

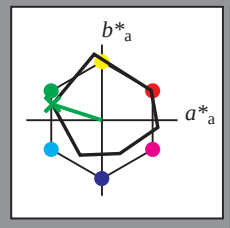
ORS19_96a; adapted (a) CIELAB data

*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.451** **u^*_e = *g00b***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *g00b* u^*_d = *y99l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

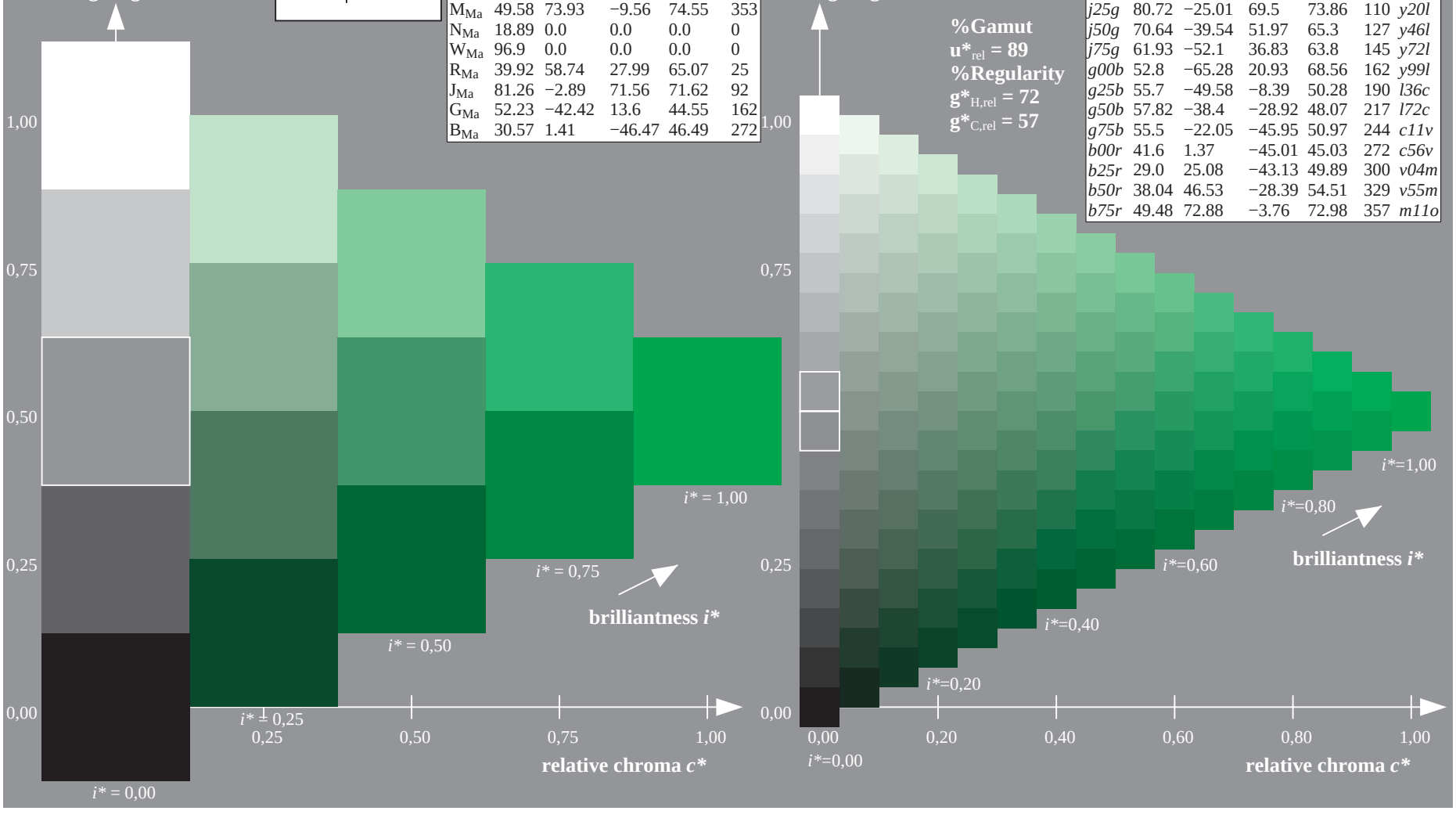
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 53 −65 21**
LAB*LCH*$_{Ma}$**: 53 69 162**
lab*rgb*$_{Ma}$**: 0.0 1.0 0.0**
lab*olv*$_{Ma}$**: 0.0 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

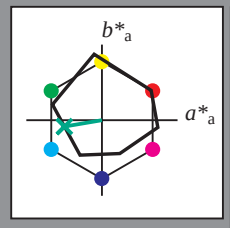
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.527** **$u^*_e = g25b$**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
$u^*_e = g25b$ $u^*_d = l36c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

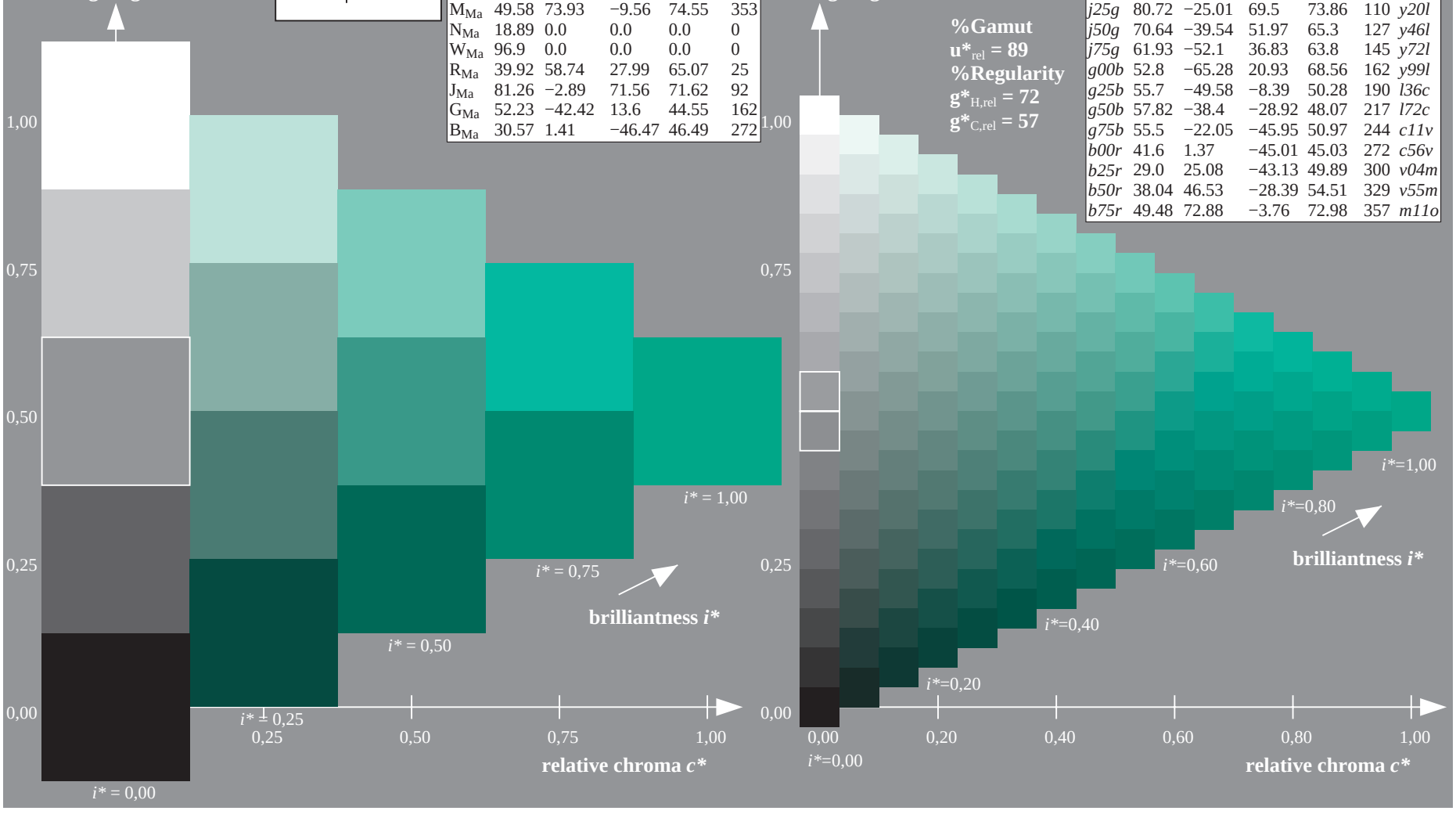
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 56 −50 −8**
LAB*LCH*$_{Ma}$**: 56 50 189**
lab*rgb*$_{Ma}$**: 0.0 1.0 0.5**
lab*olv*$_{Ma}$**: 0.0 1.0 0.36**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

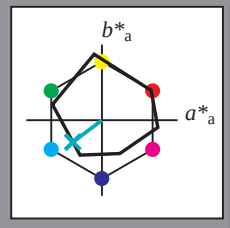
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.603** **u^*_e = *g50b***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *g50b* u^*_d = *l72c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

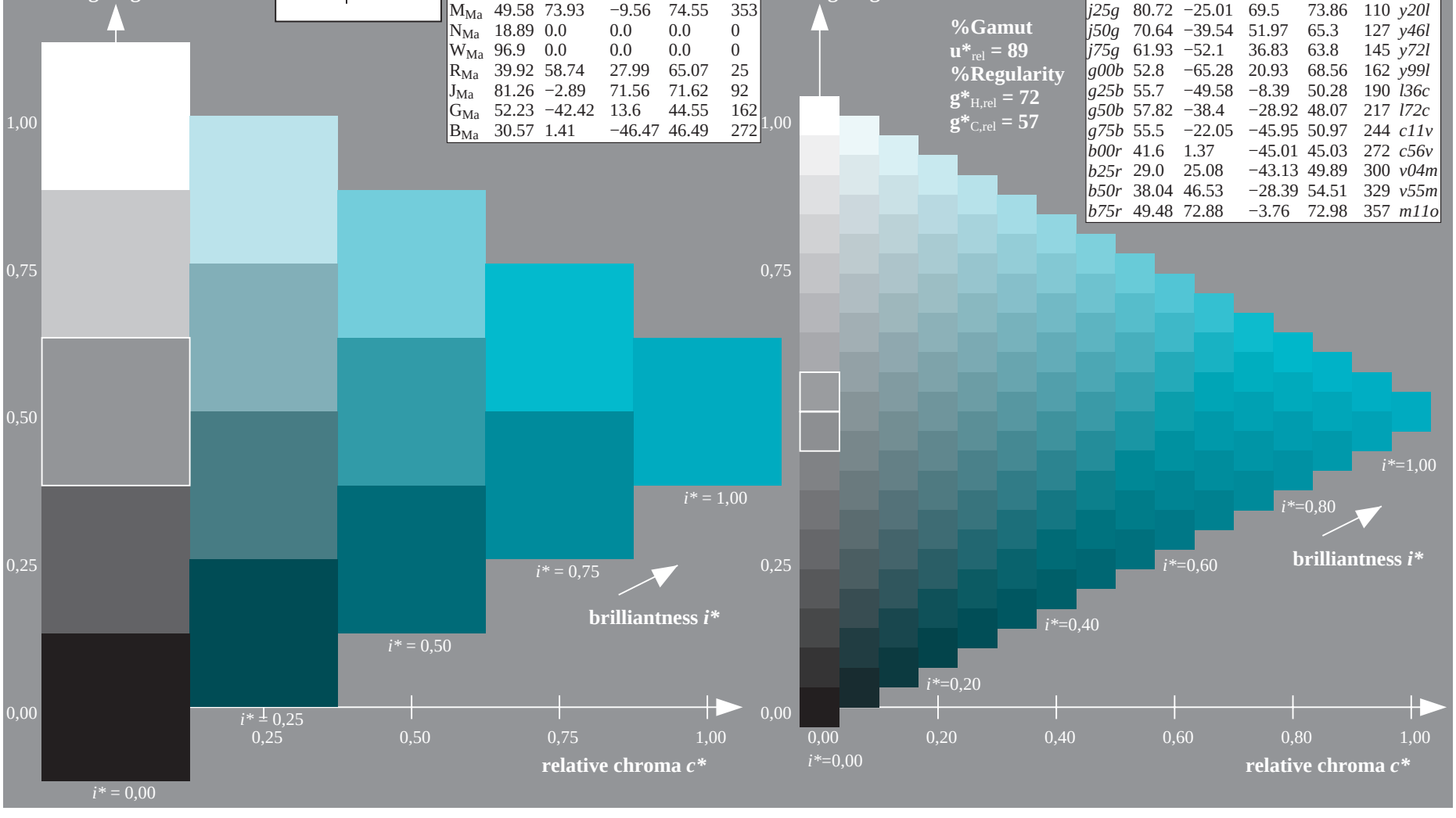
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 58 −38 −29**
LAB*LCH*$_{Ma}$**: 58 48 216**
lab*rgb*$_{Ma}$**: 0.0 1.0 1.0**
lab*olv*$_{Ma}$**: 0.0 1.0 0.72**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

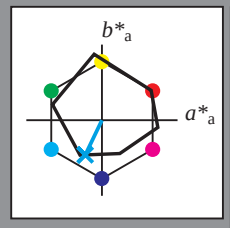
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.679** **u^*_e = *g75b***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *g75b* u^*_d = *c11v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

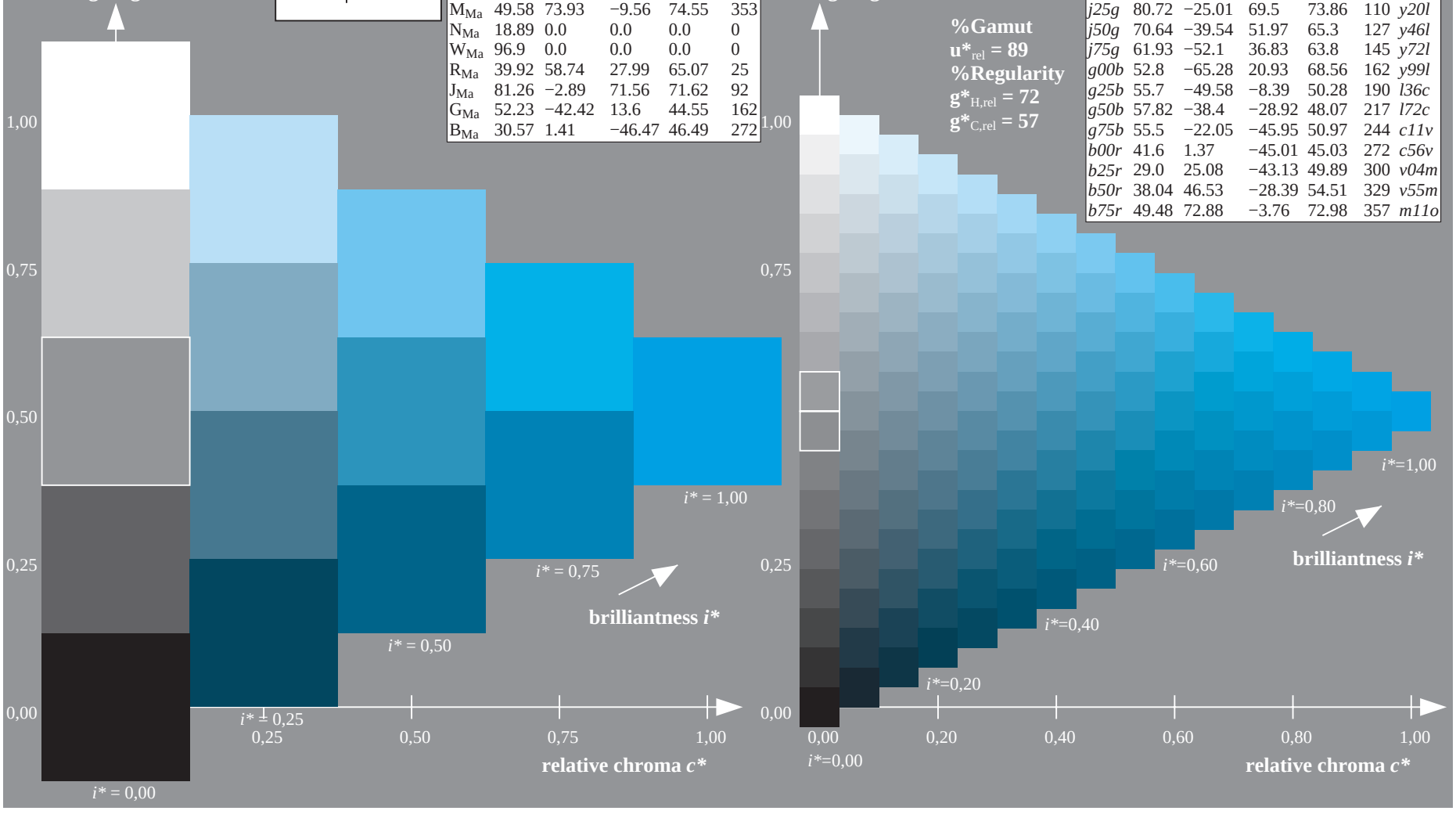
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 55 −22 −46**
LAB*LCH*$_{Ma}$**: 55 51 244**
lab*rgb*$_{Ma}$**: 0.0 0.5 1.0**
lab*olv*$_{Ma}$**: 0.0 0.89 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

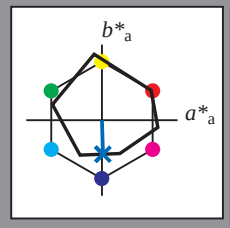
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.755** **u^*_e = *b00r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

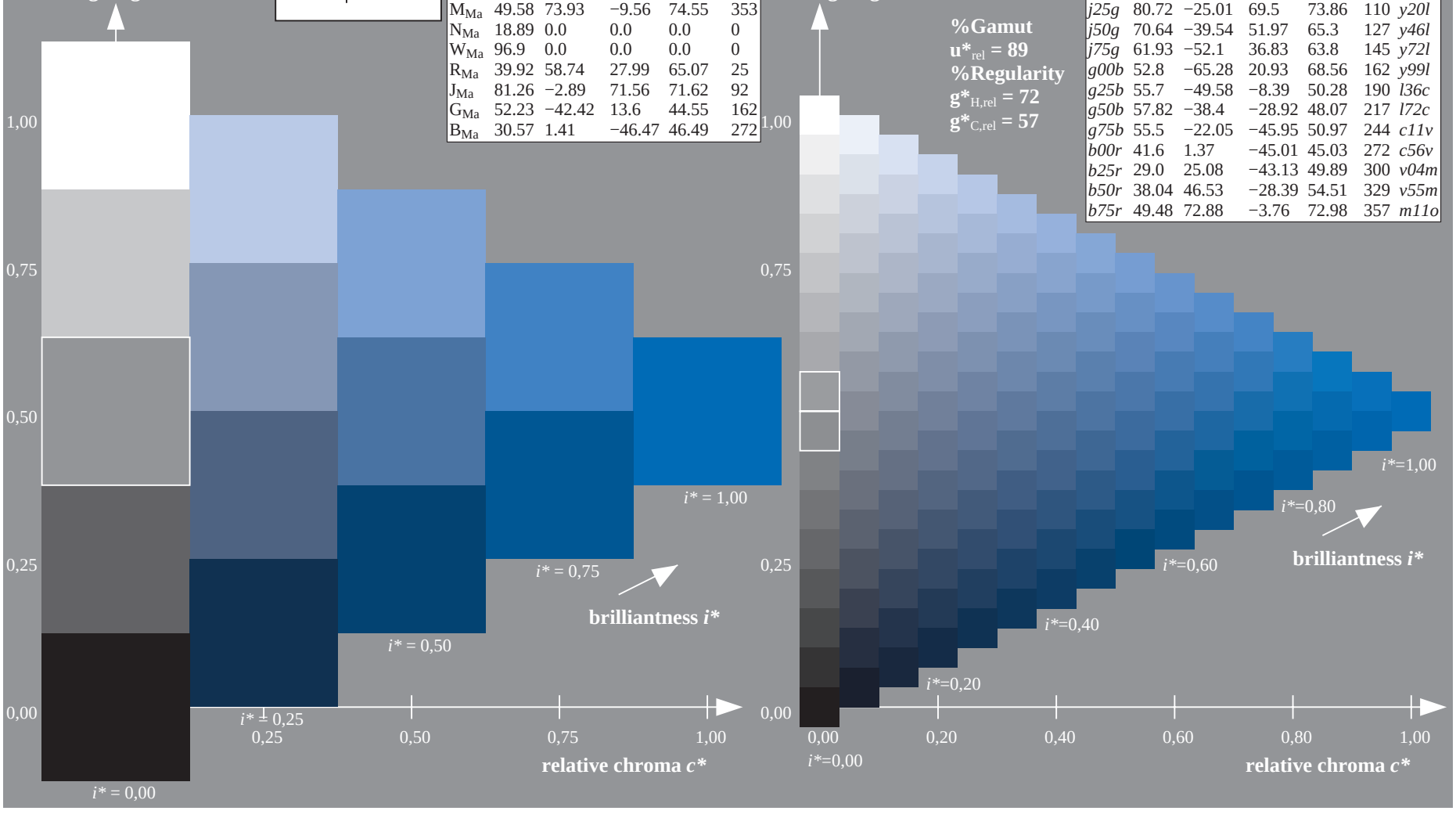
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 42 1 −45**
LAB*LCH*$_{Ma}$**: 42 45 271**
lab*rgb*$_{Ma}$**: 0.0 0.0 1.0**
lab*olv*$_{Ma}$**: 0.0 0.44 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

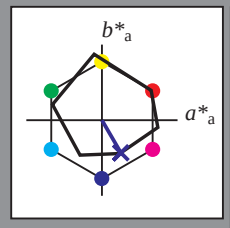
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.834** **u^*_e = *b25r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

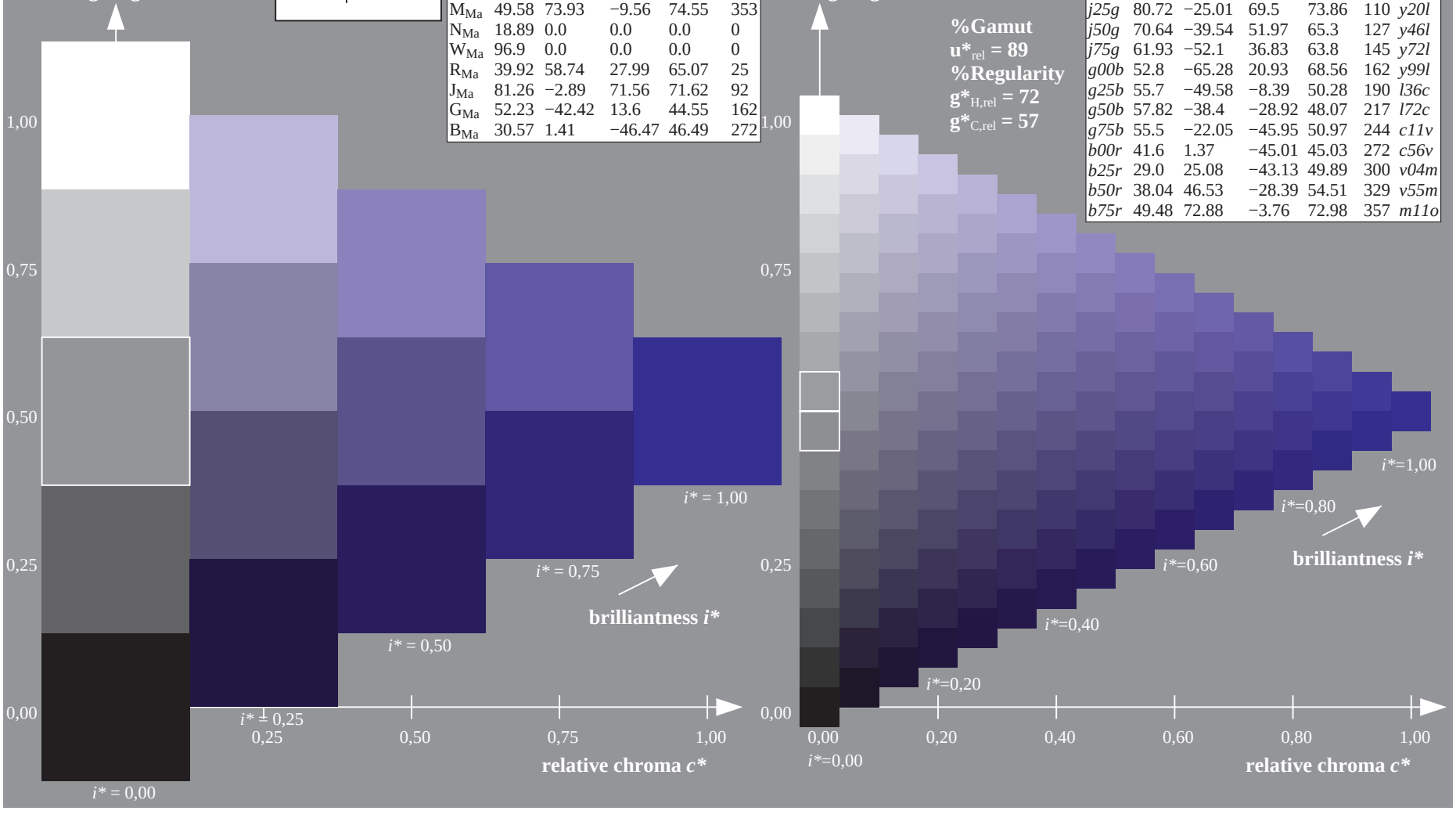
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 29 25 −43**
LAB*LCH*$_{Ma}$**: 29 50 300**
lab*rgb*$_{Ma}$**: 0.5 0.0 1.0**
lab*olv*$_{Ma}$**: 0.04 0.0 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

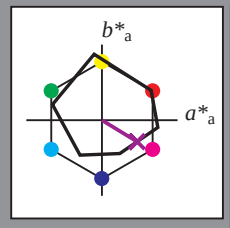
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.913** **u^*_e = *b50r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

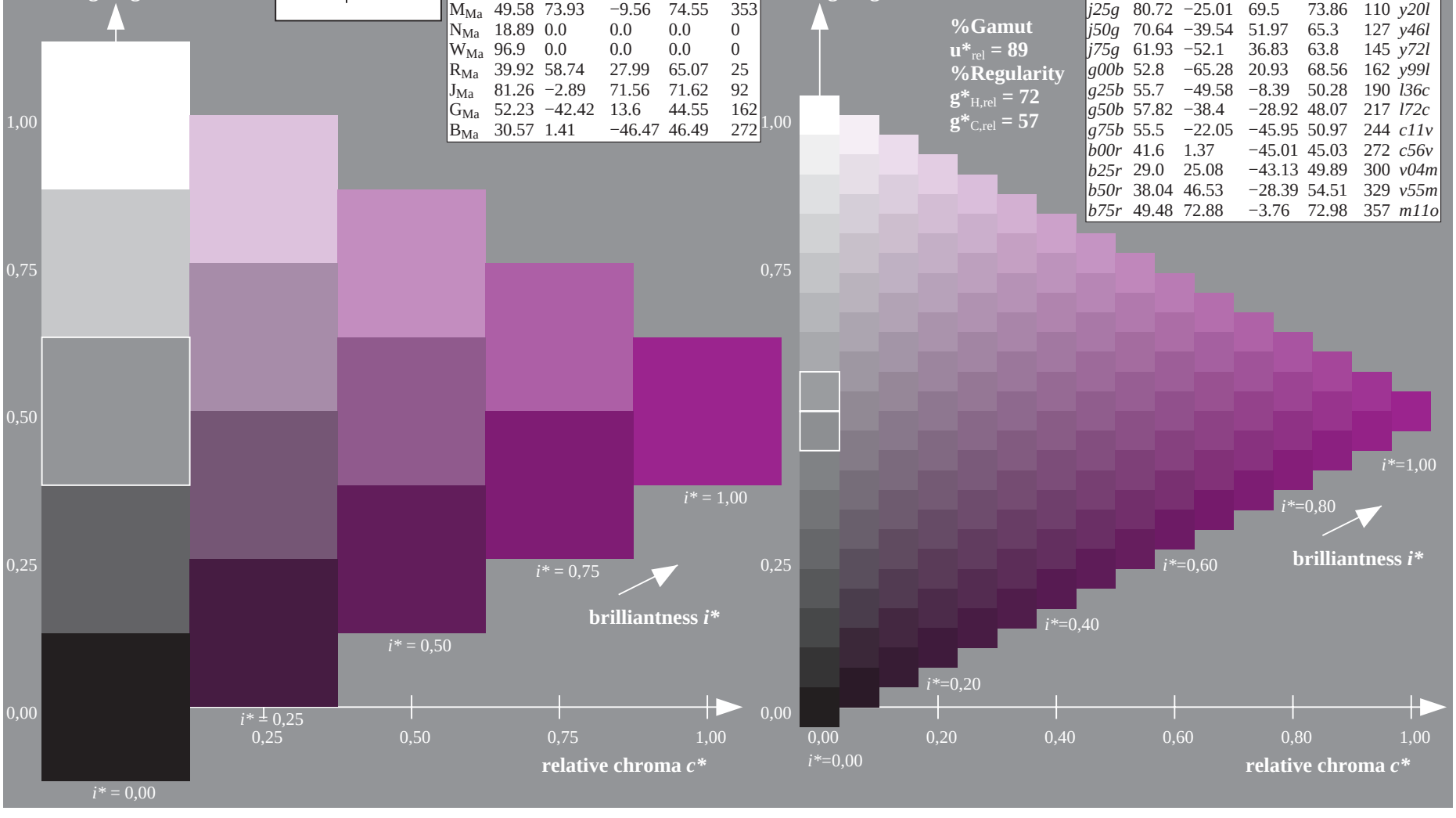
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 38 47 −28**
LAB*LCH*$_{Ma}$**: 38 55 328**
lab*rgb*$_{Ma}$**: 1.0 0.0 1.0**
lab*olv*$_{Ma}$**: 0.56 0.0 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

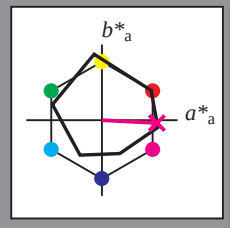
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992** **u^*_e = *b75r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

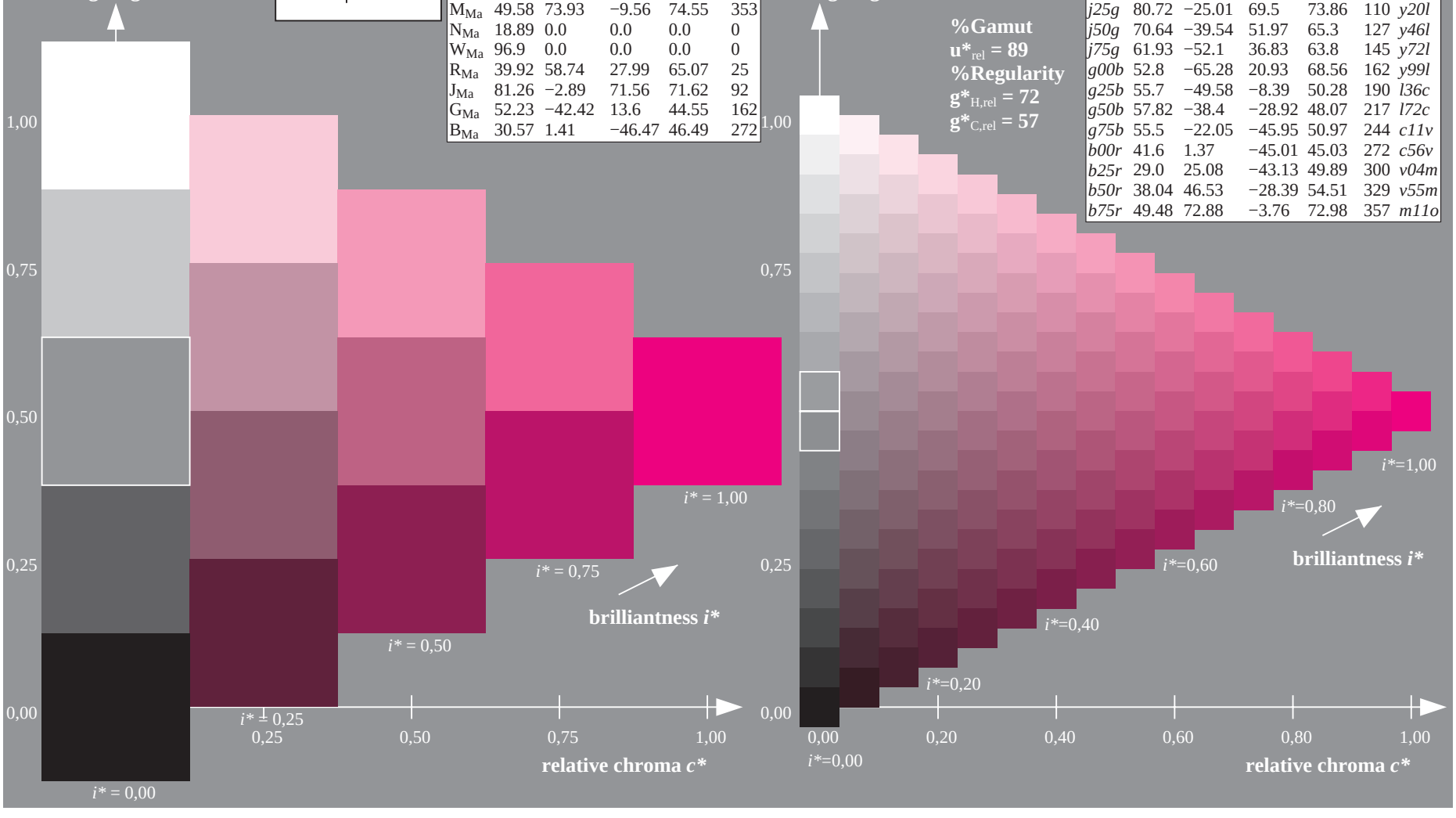
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 49 73 −4**
LAB*LCH*$_{Ma}$**: 49 73 357**
lab*rgb*$_{Ma}$**: 1.0 0.0 0.5**
lab*olv*$_{Ma}$**: 1.0 0.0 0.89**
triangle lightness *t**

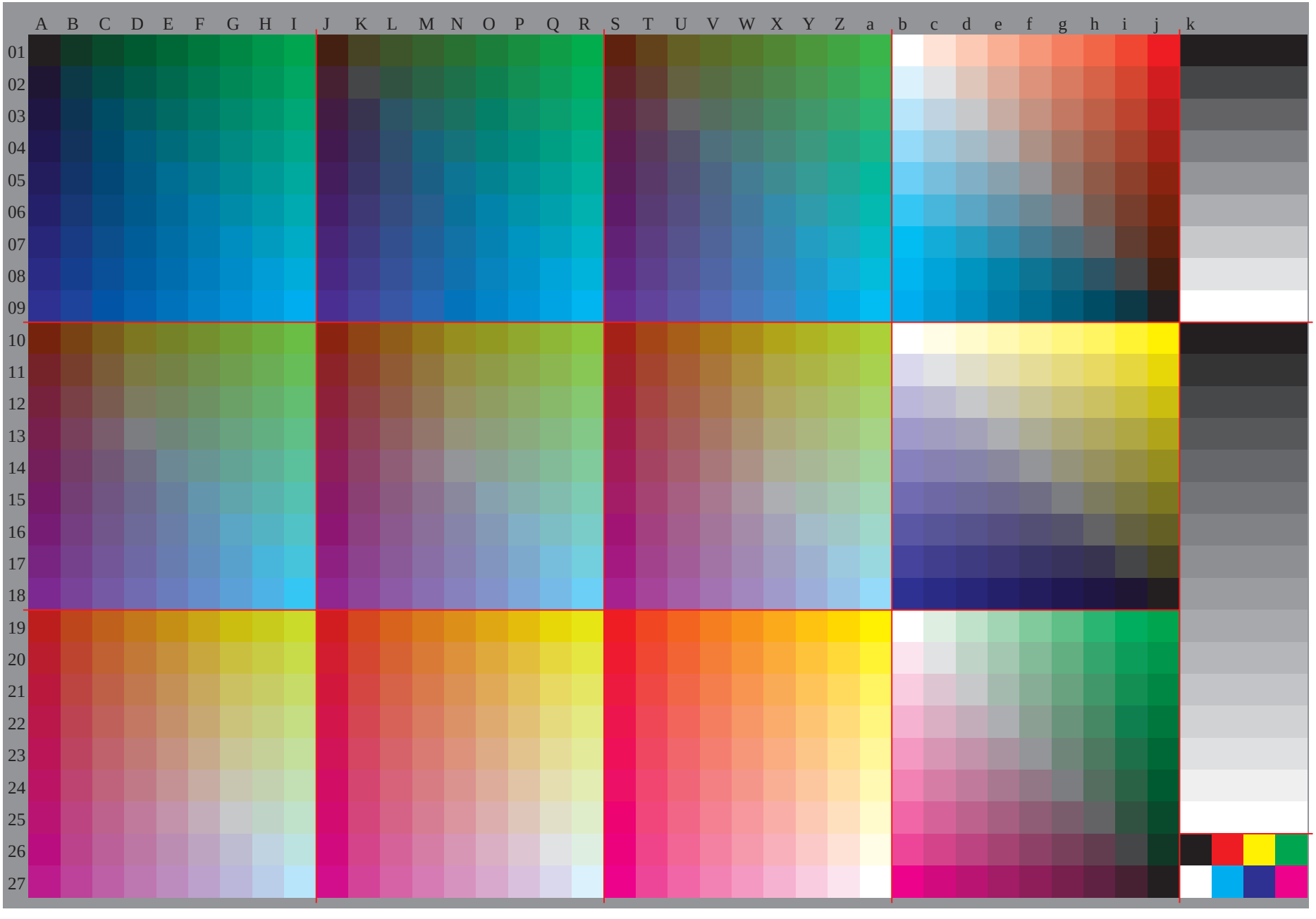
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



www.ps.bam.de/Ee12/10L/L12E00NP.PS/ .PDF; ORS19_96a; transfer and output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

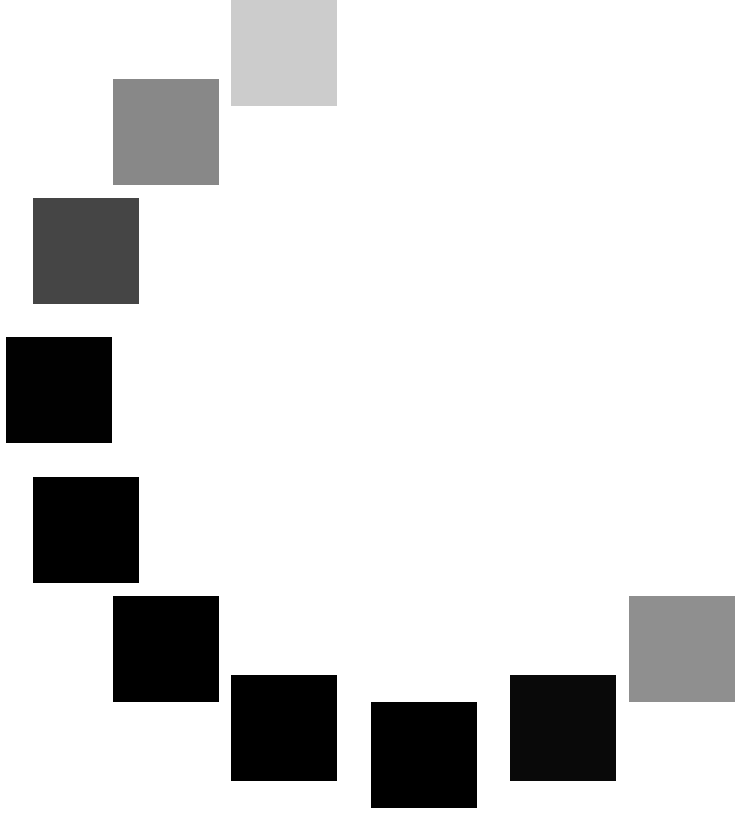


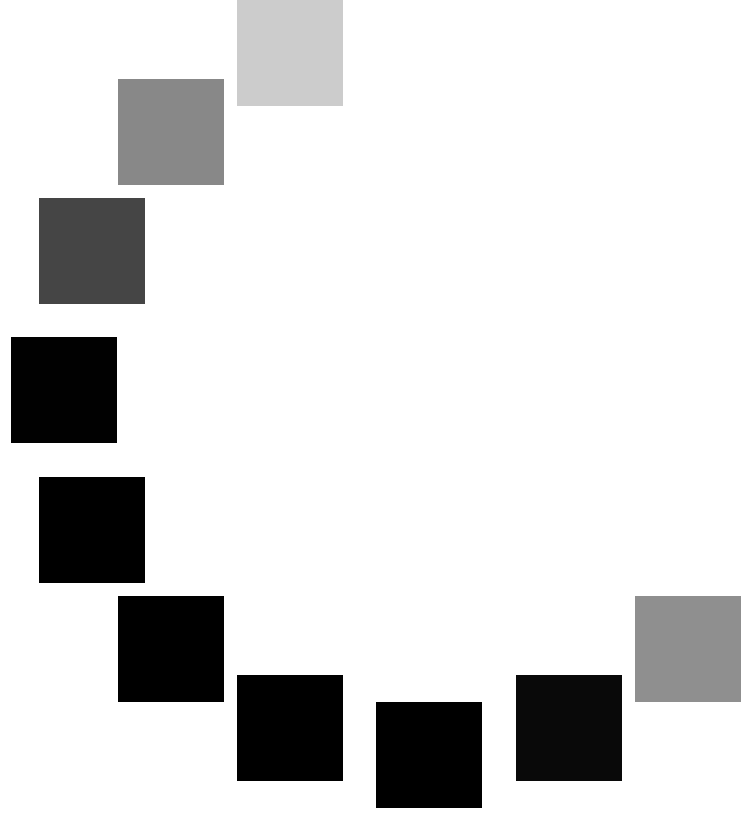
See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

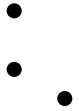
BAM registration: 20081001-Ee12/10L/L12E00NP.PS/ .PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

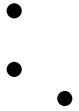
BAM-test chart Ee12; Colorimetric systems, Page 36/270
4 separations and 9 data tables for 16 hues *r00j* to *b75r*

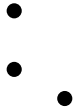
input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

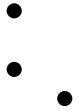


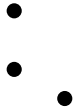


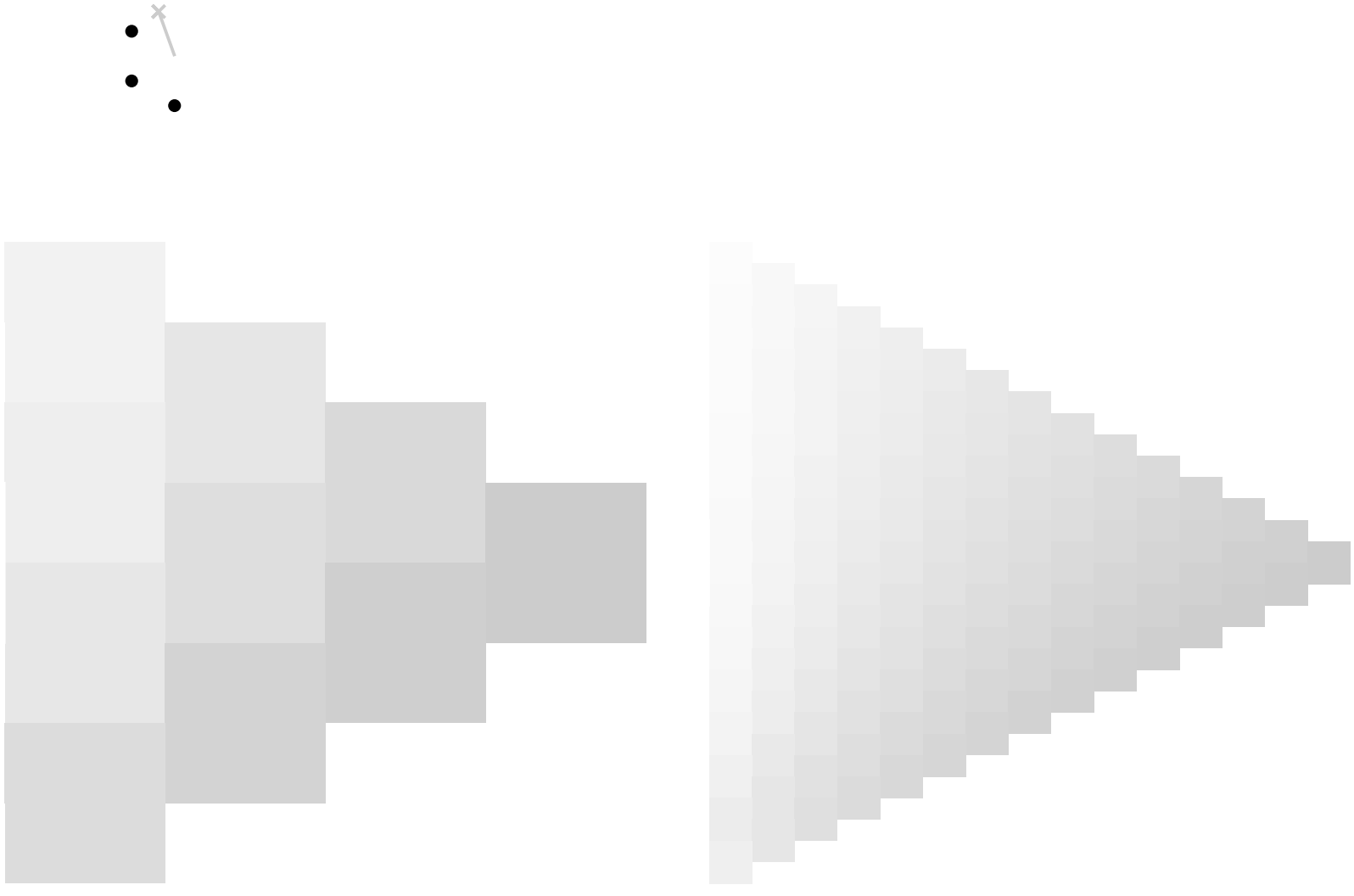


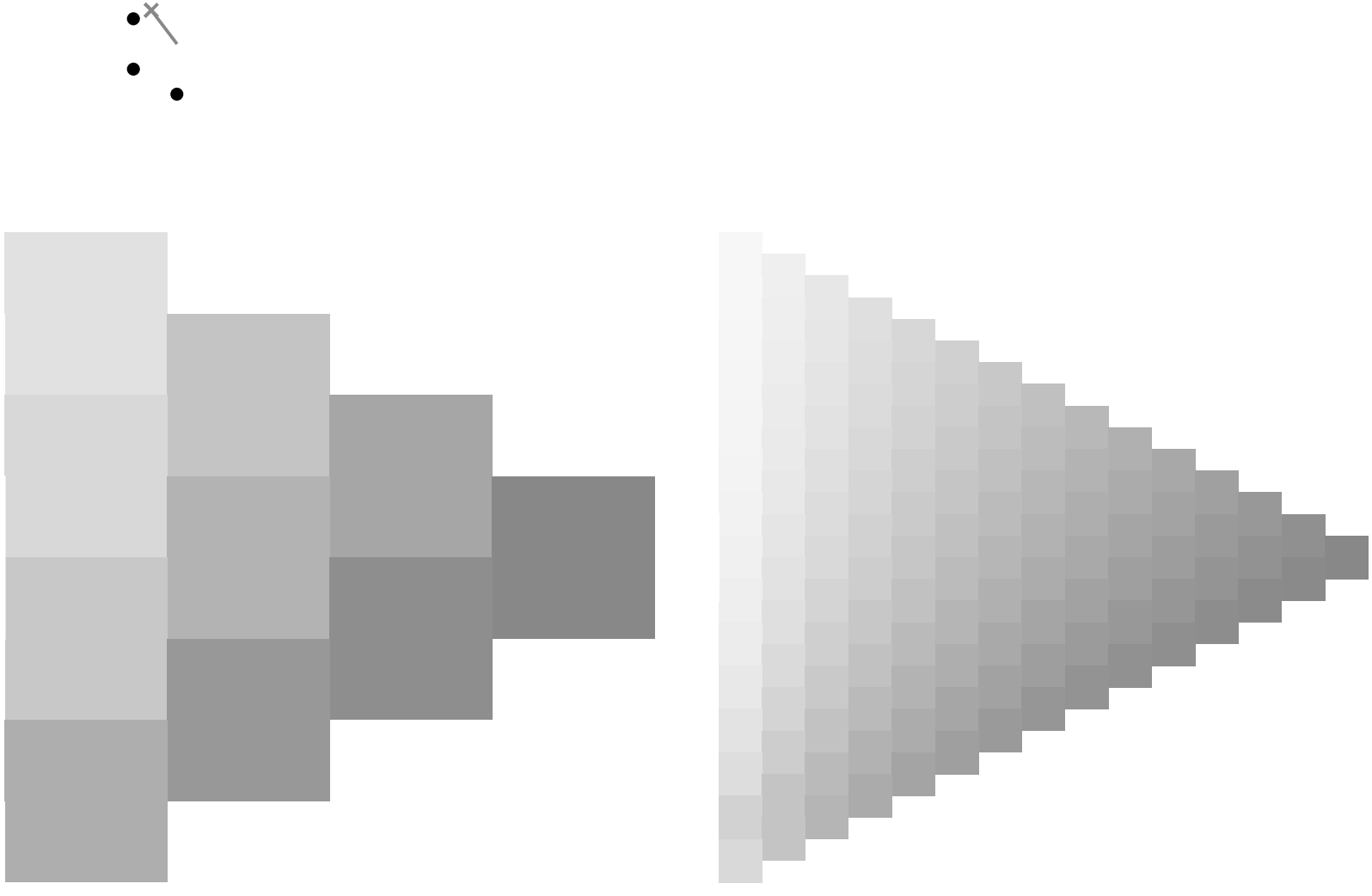


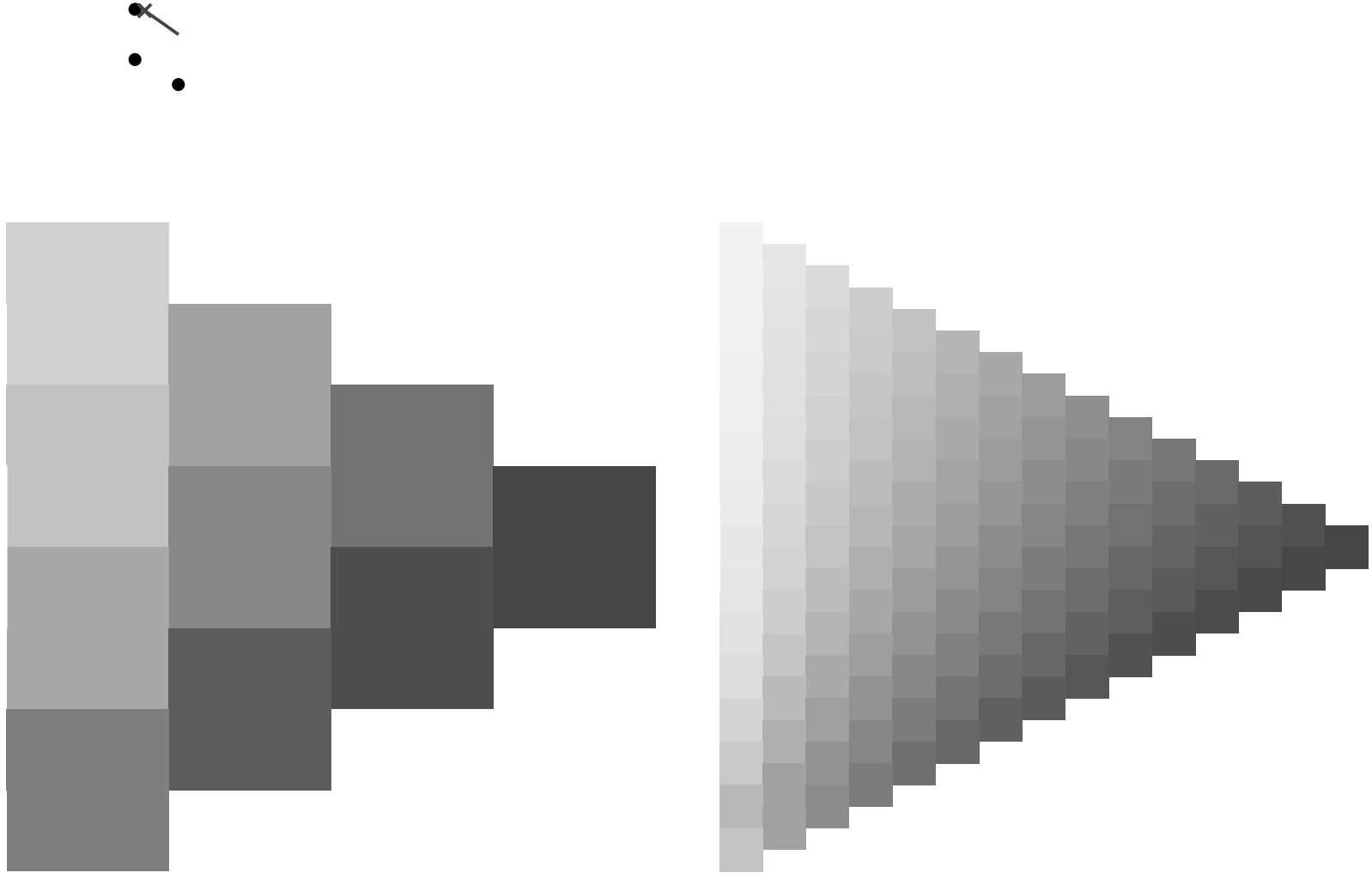


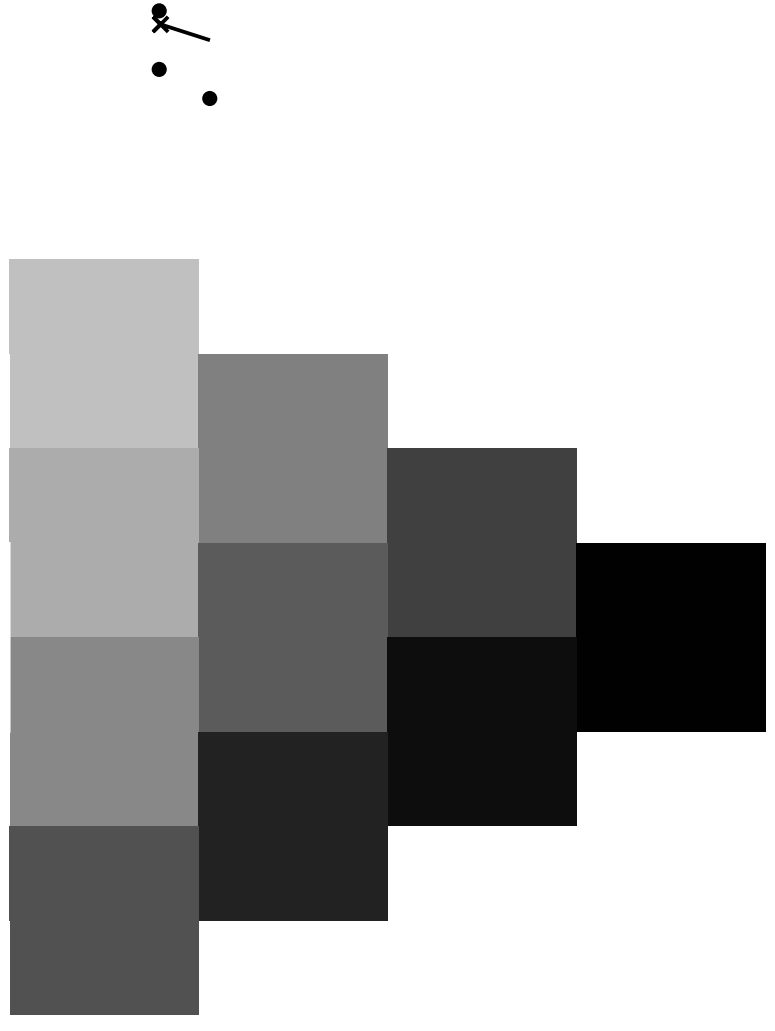


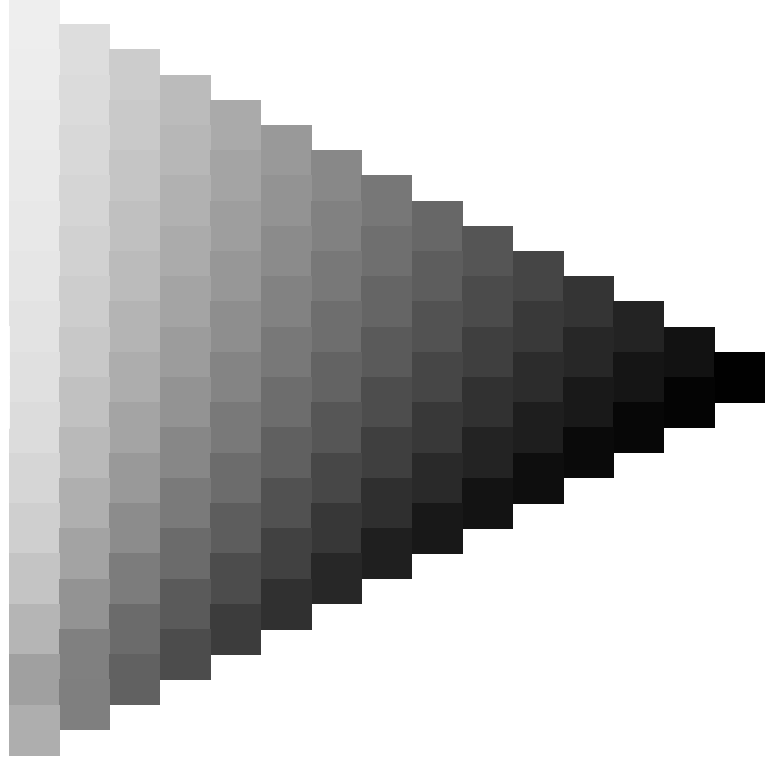




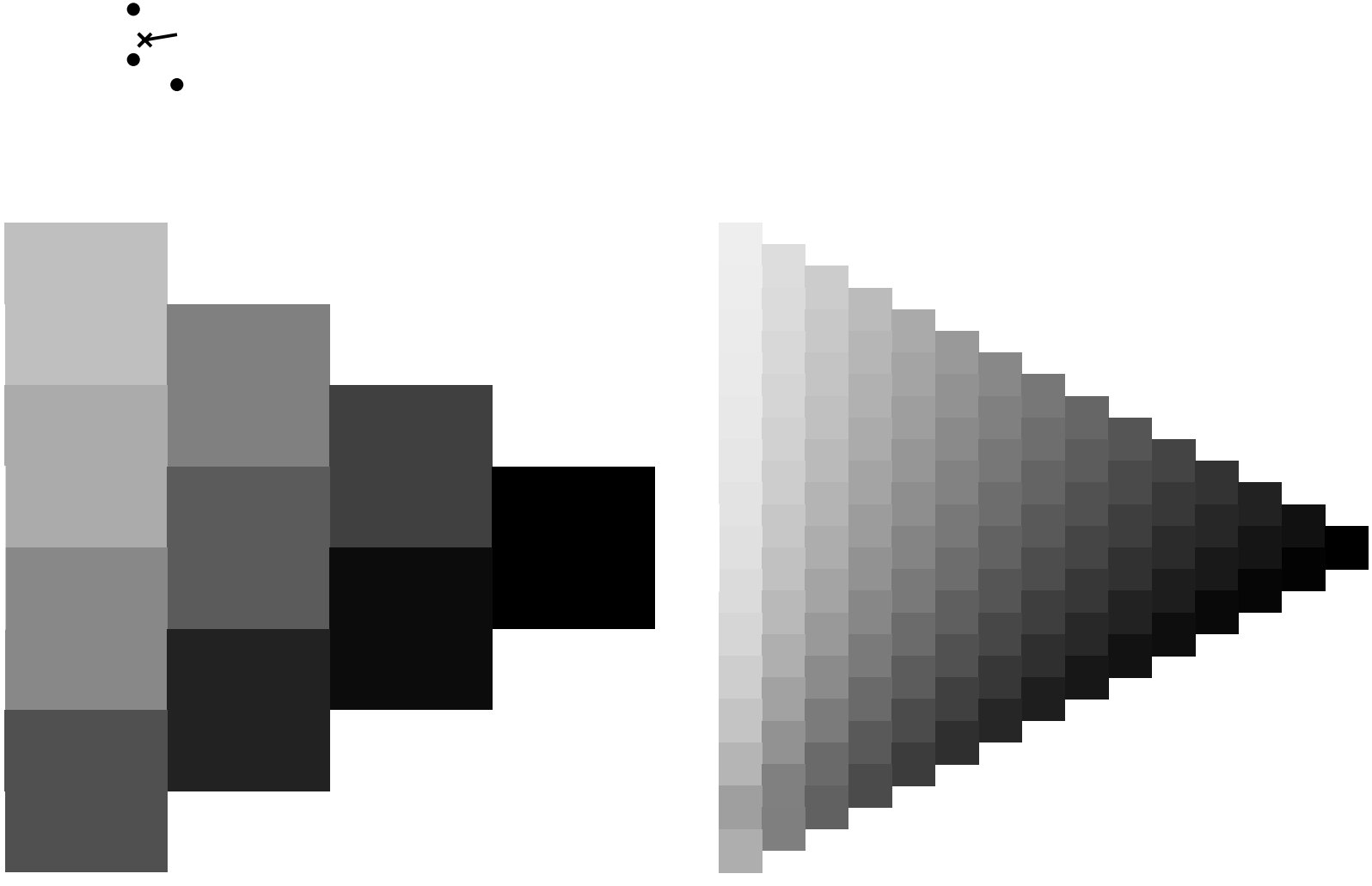


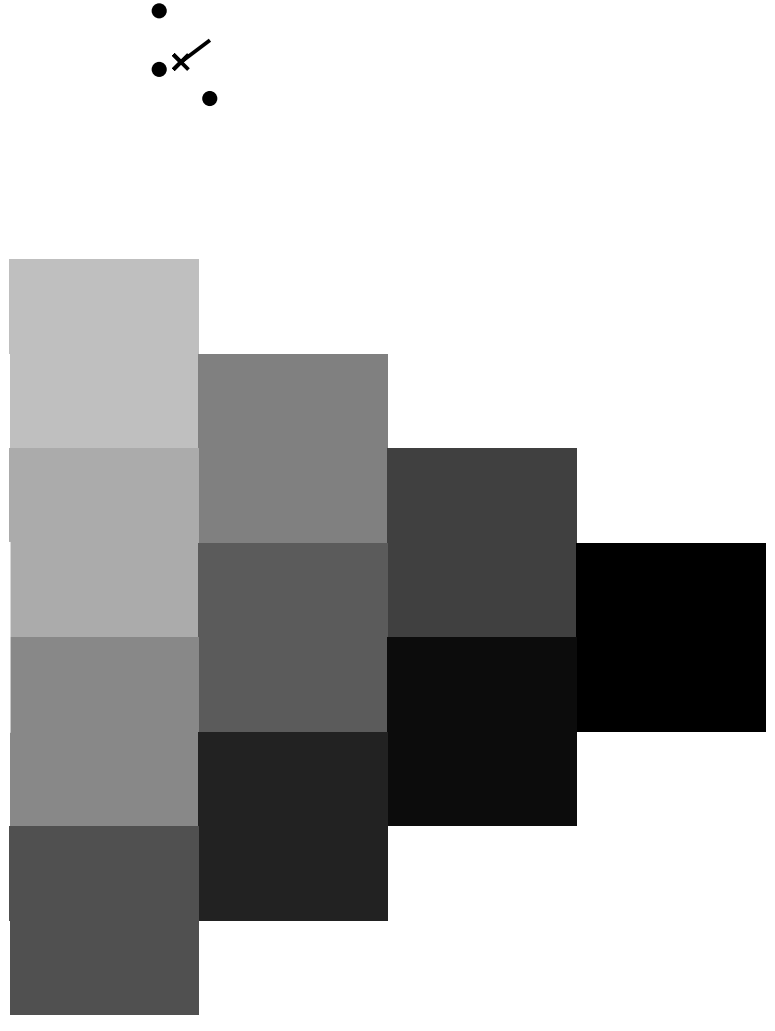


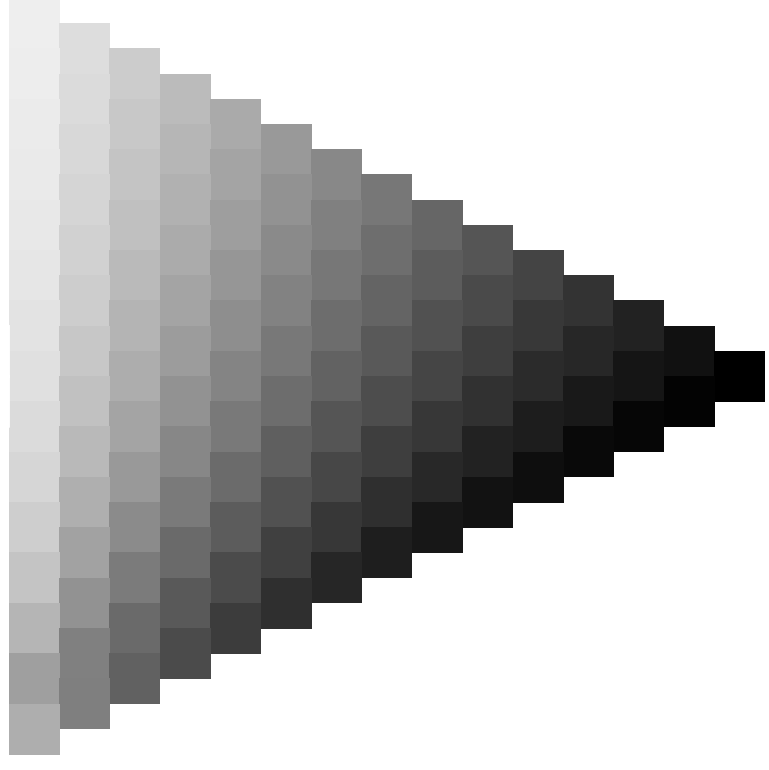


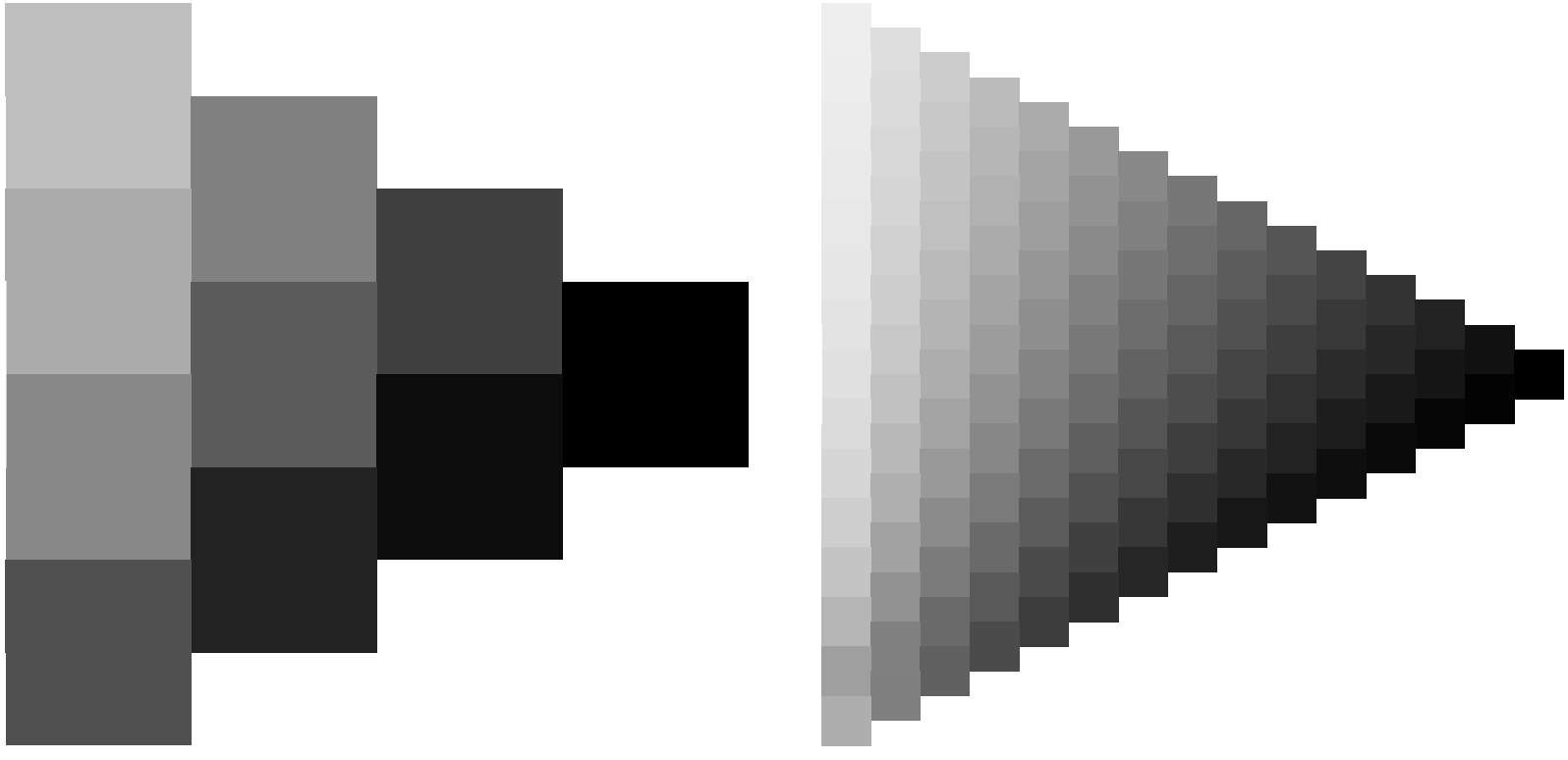


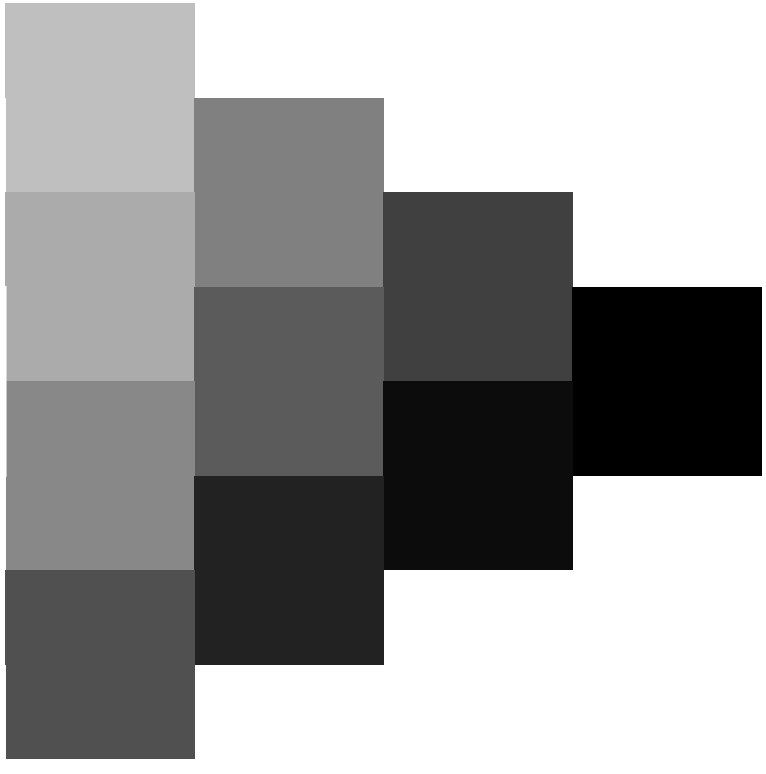
See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

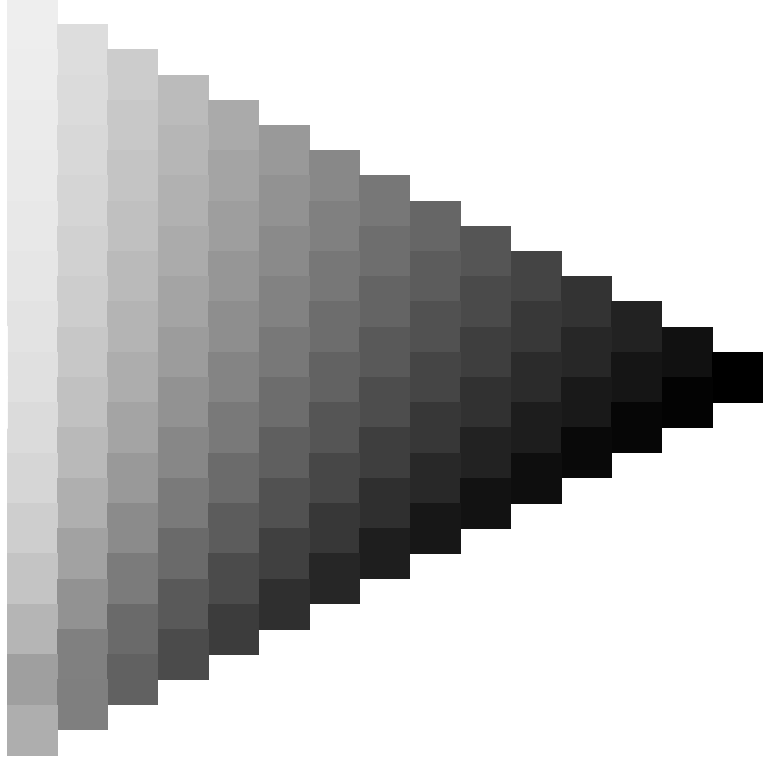


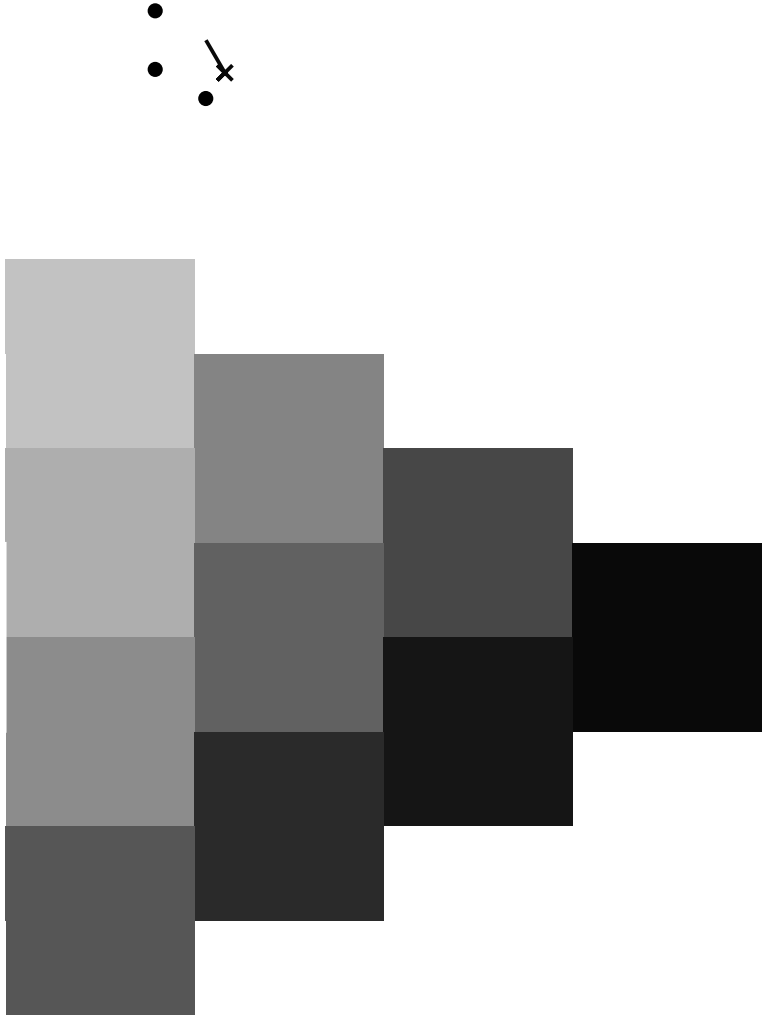


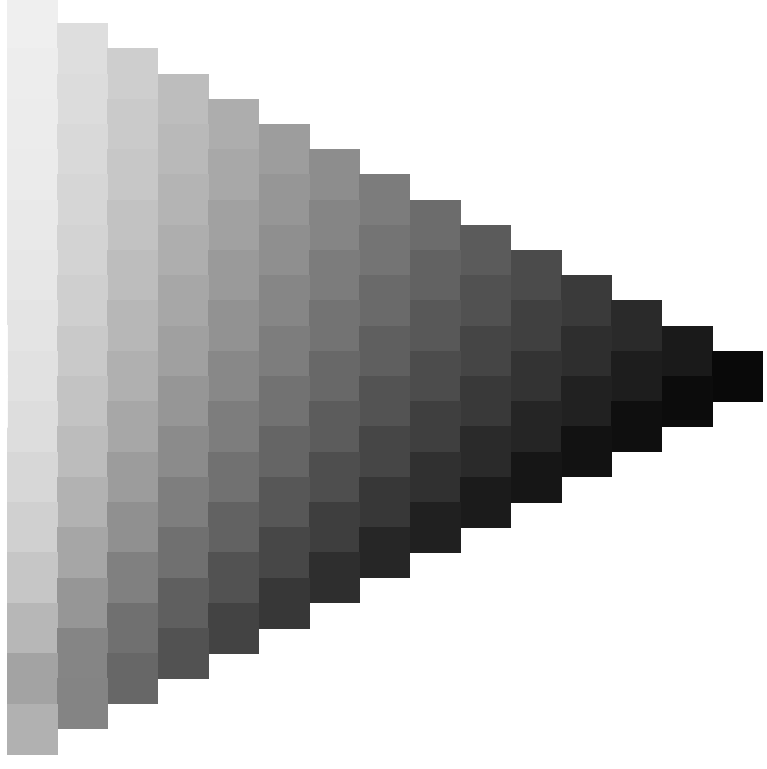


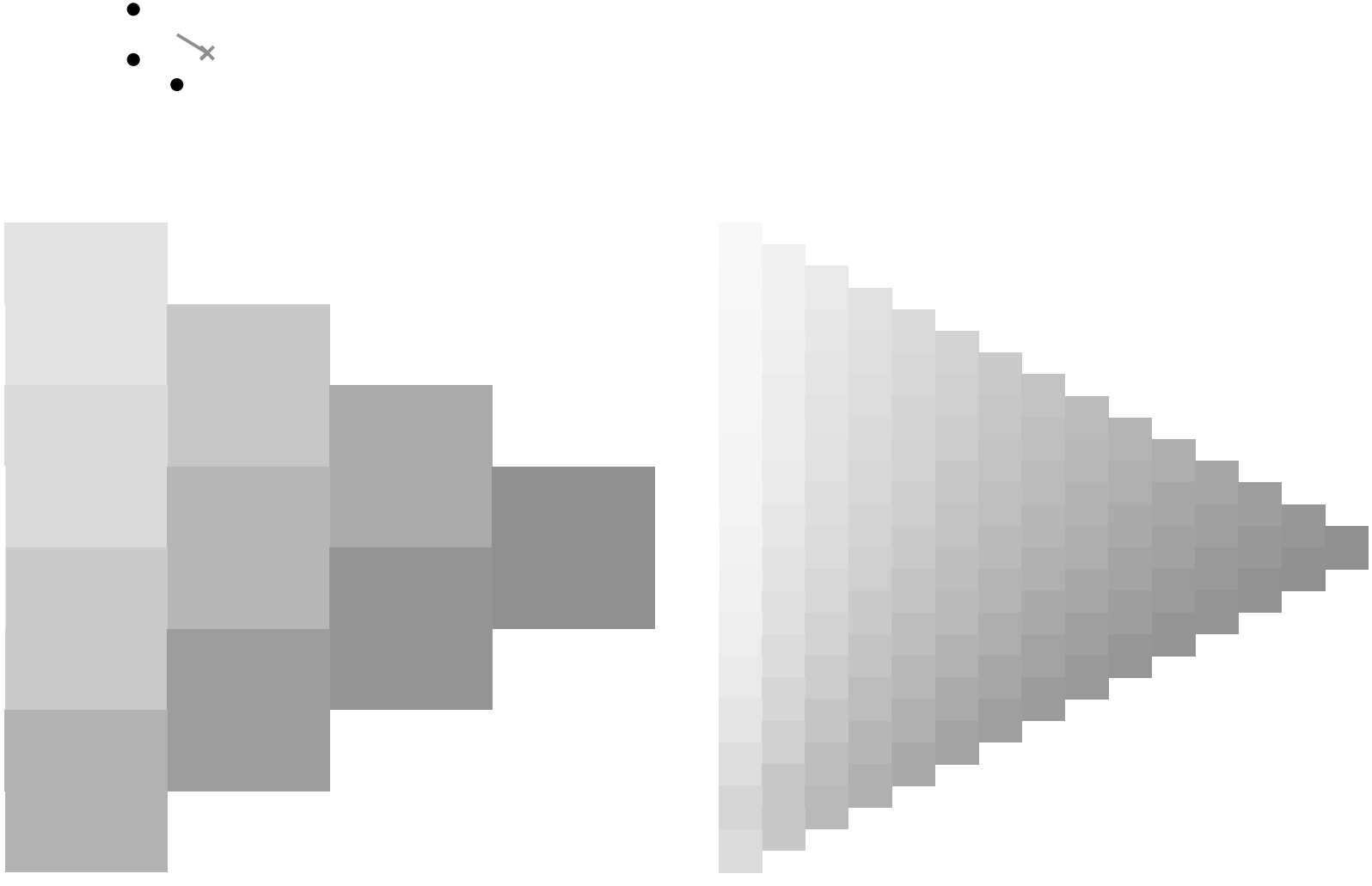


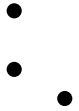


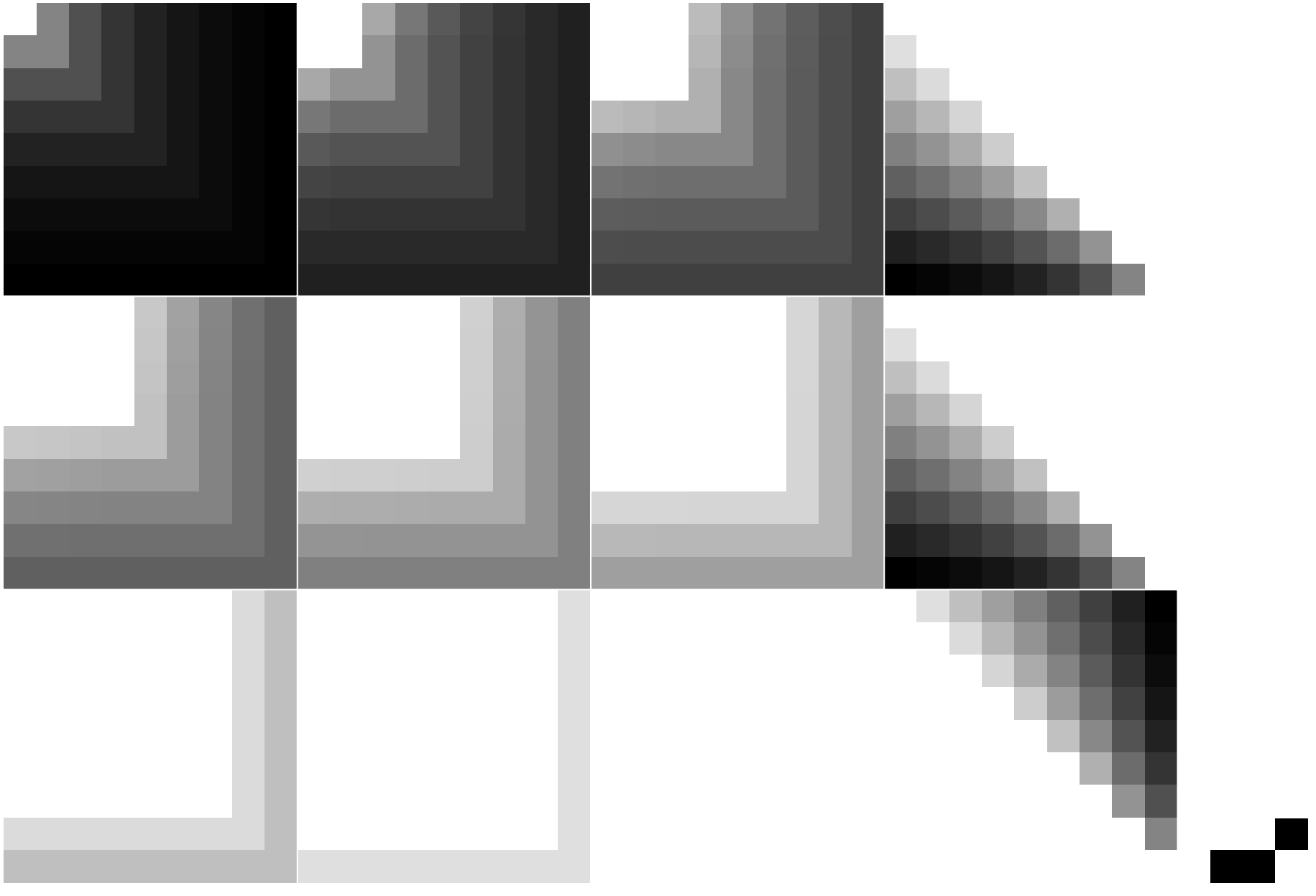


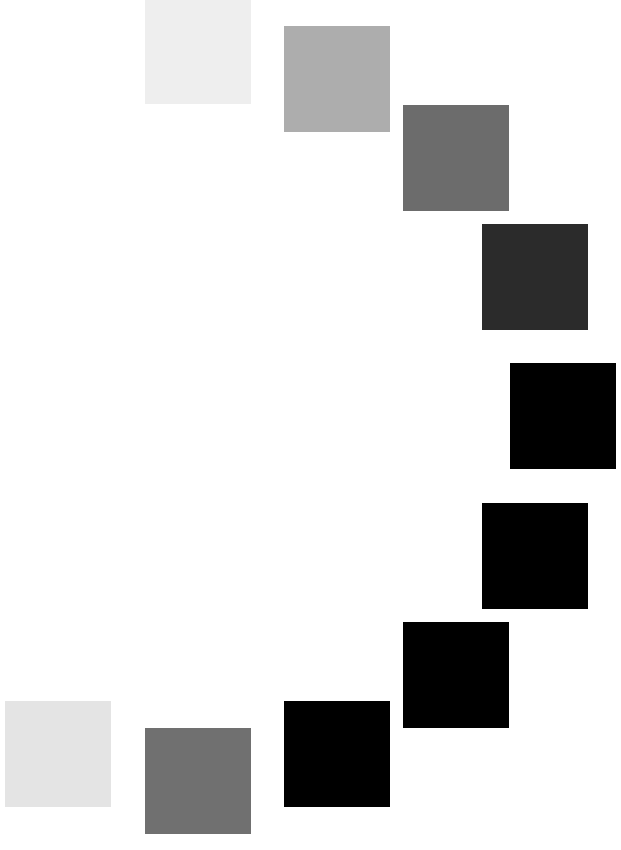


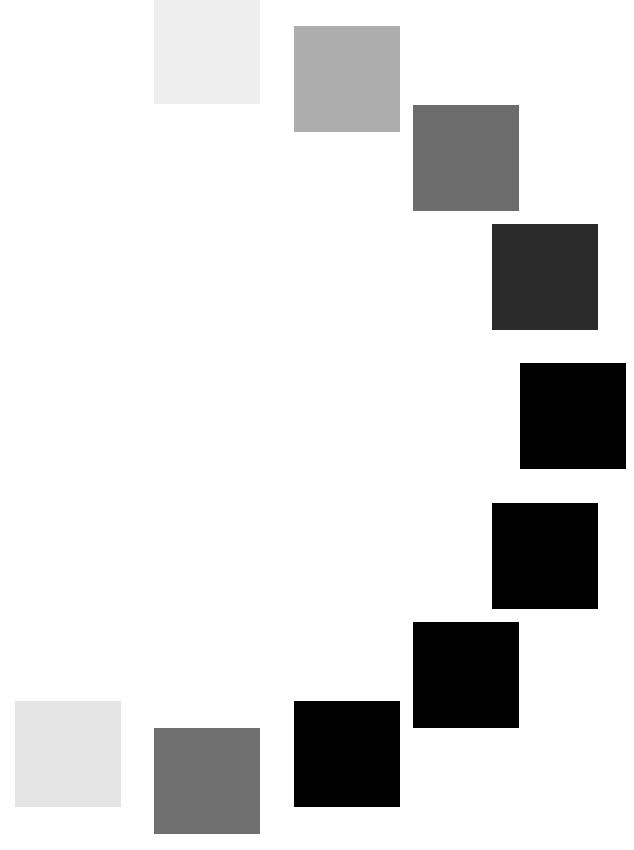


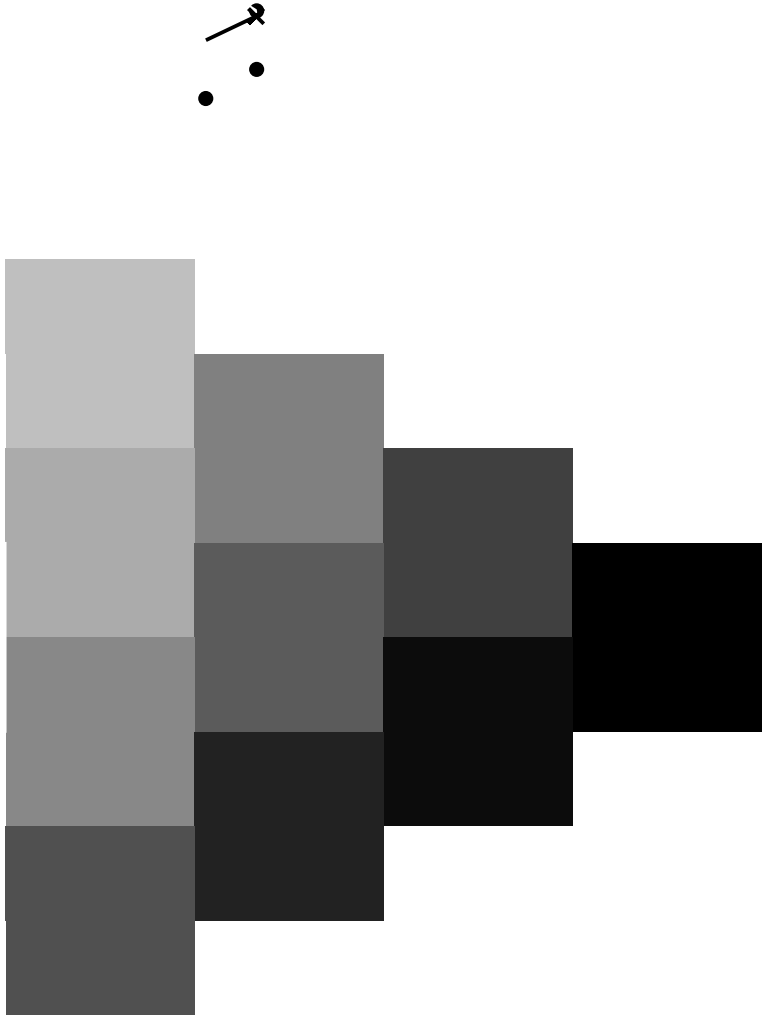


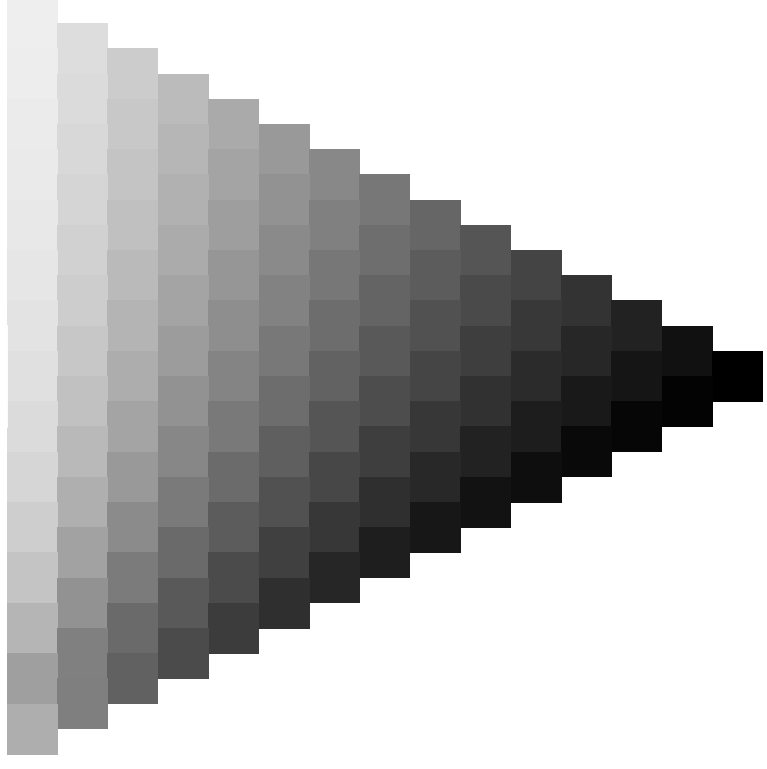












BAM registration: 20081001-Ee12/10L/L12E00NP.PS/ .PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

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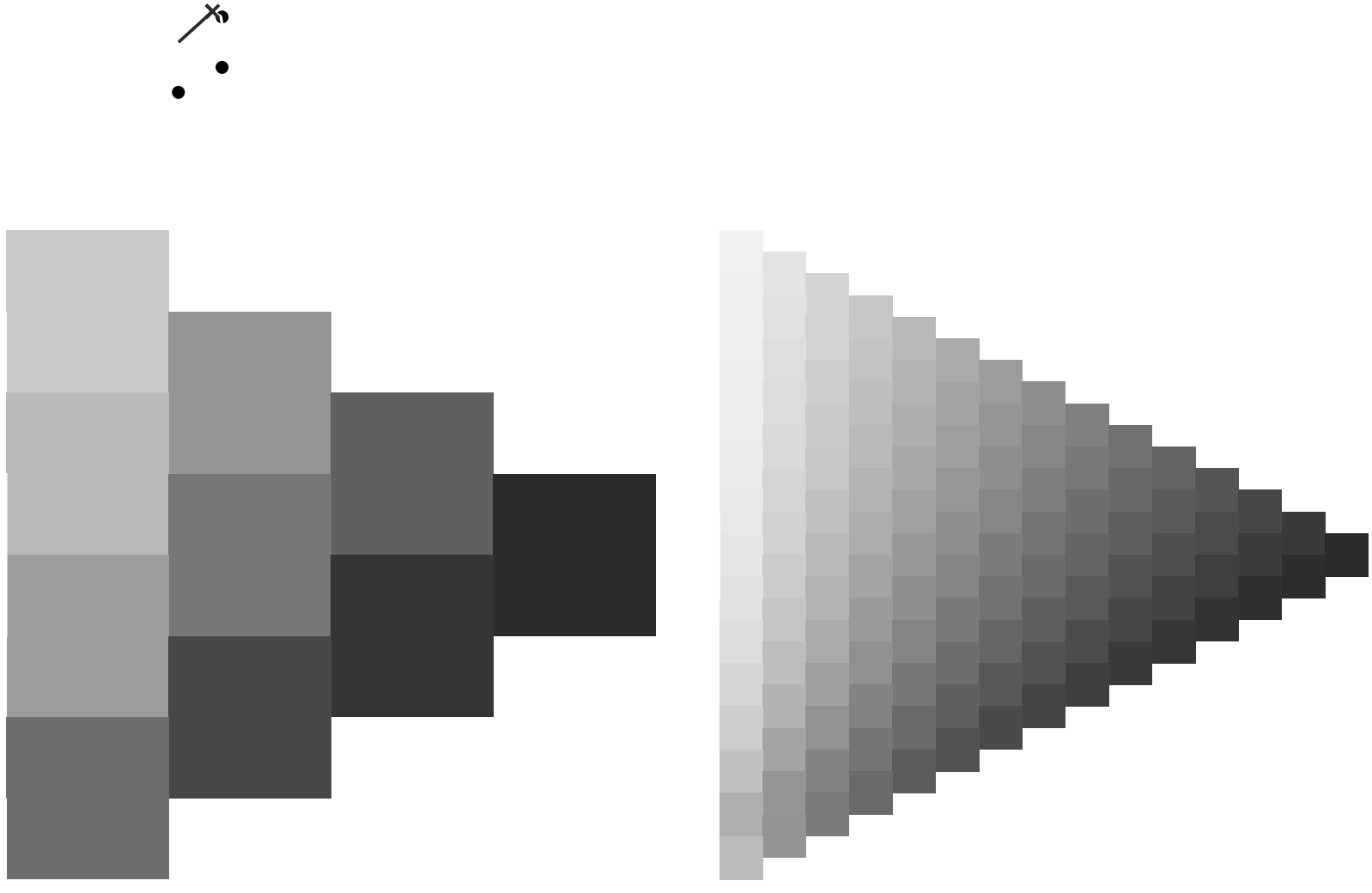
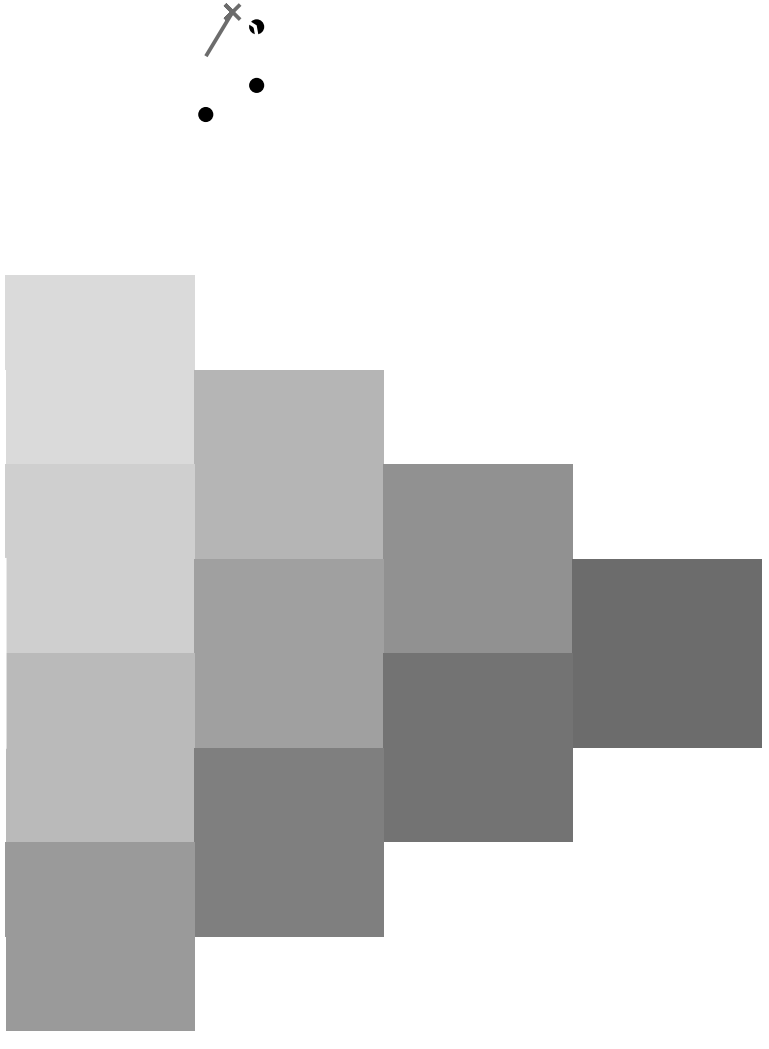
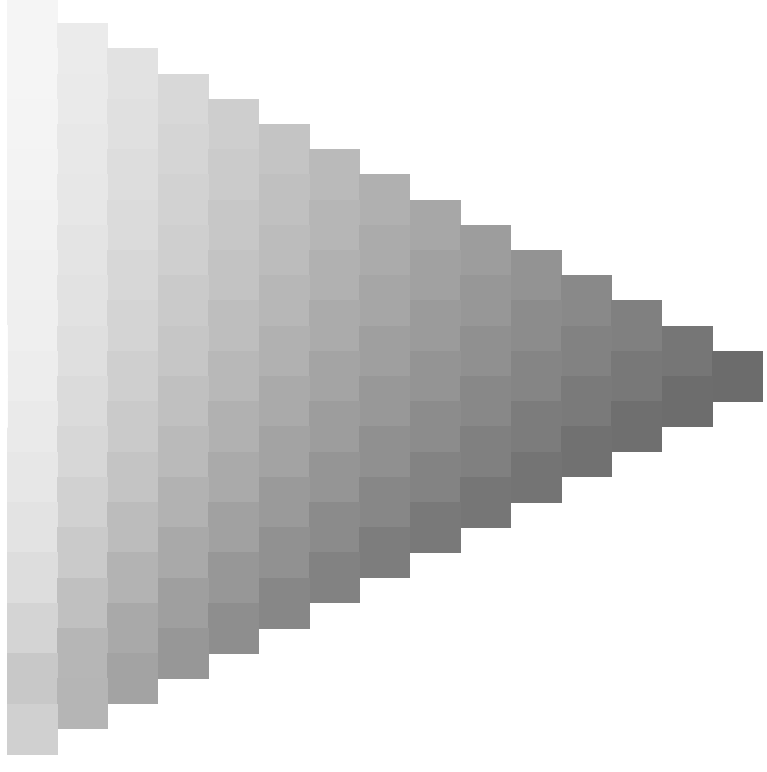
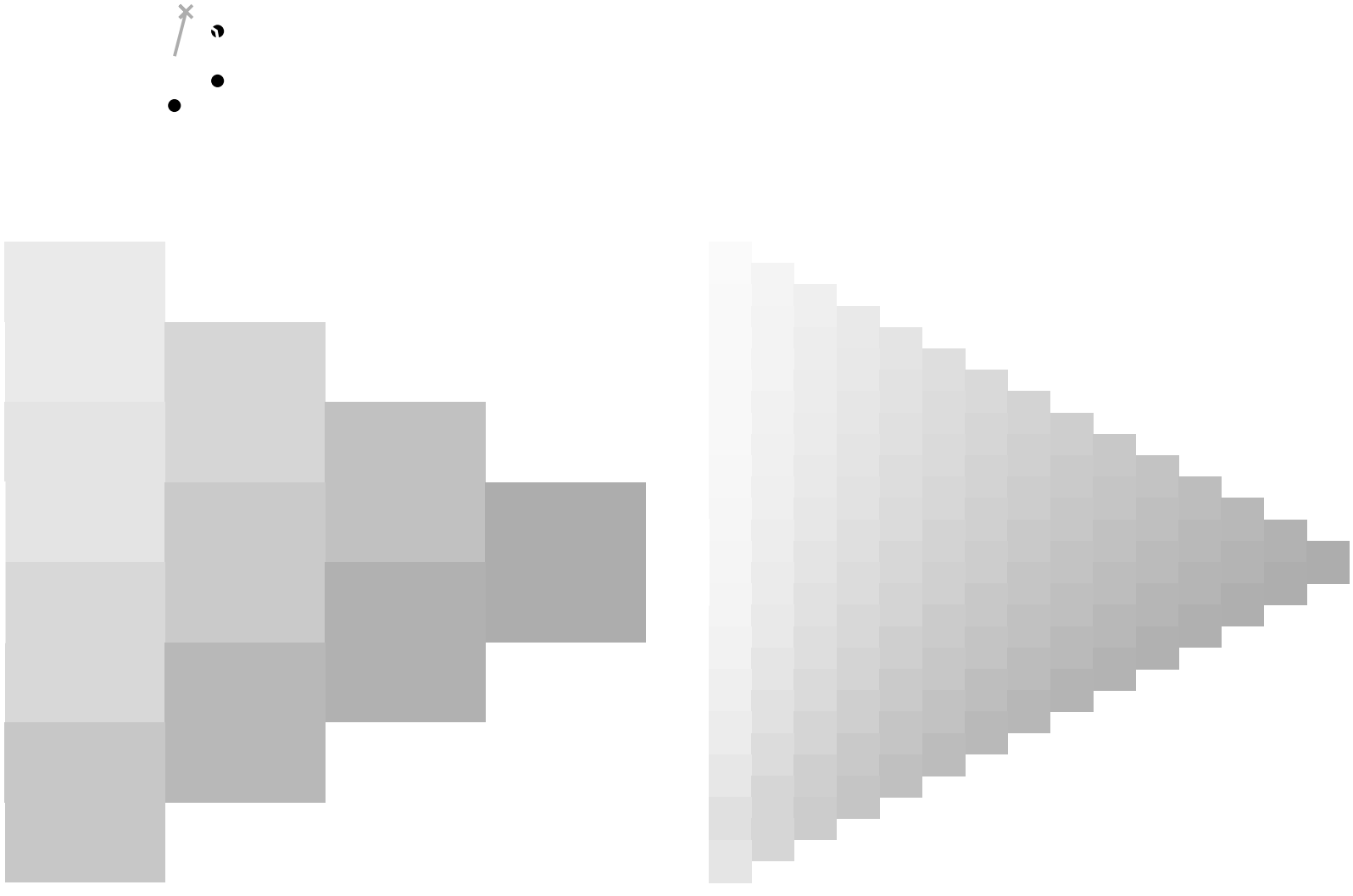
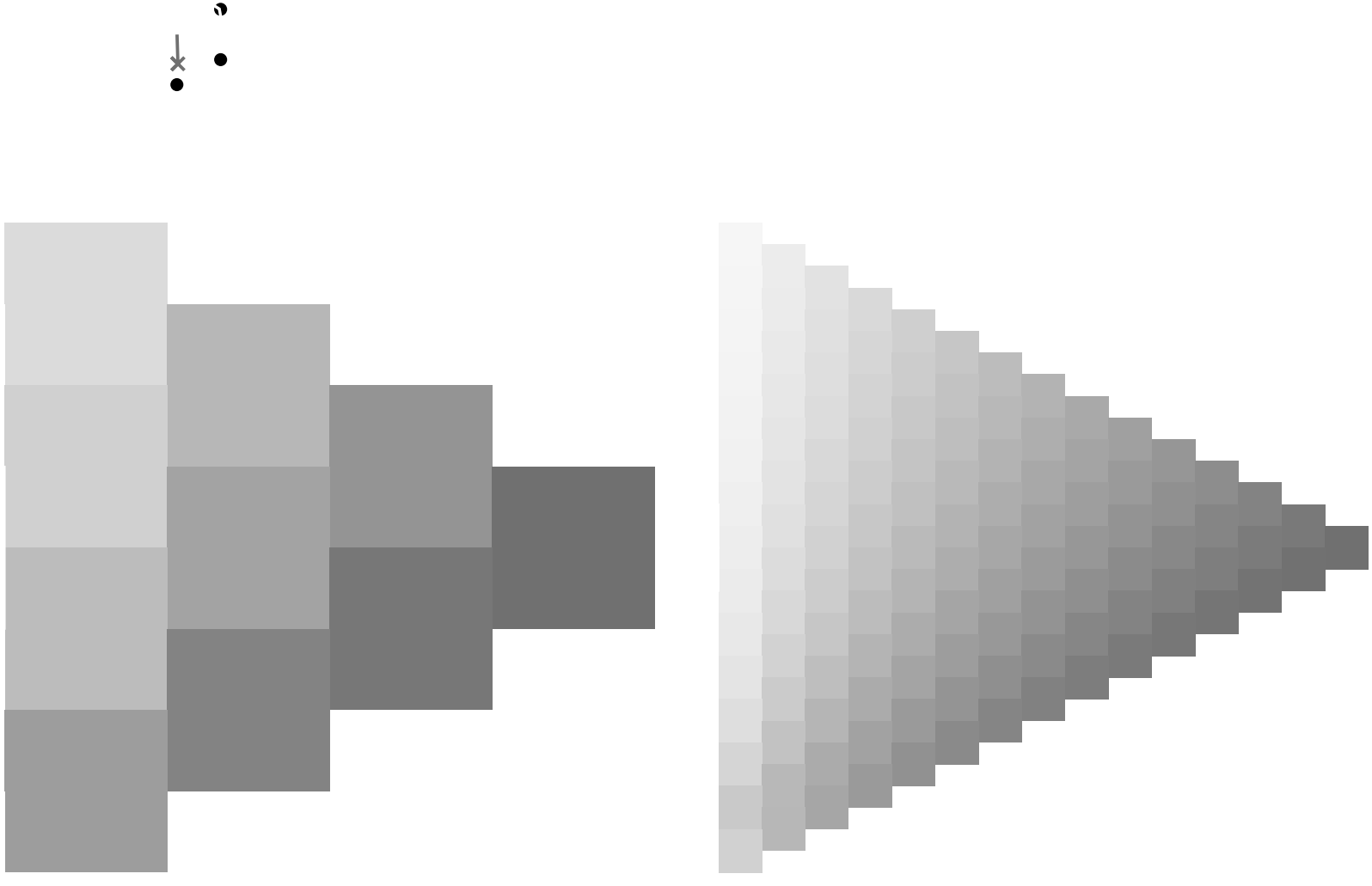


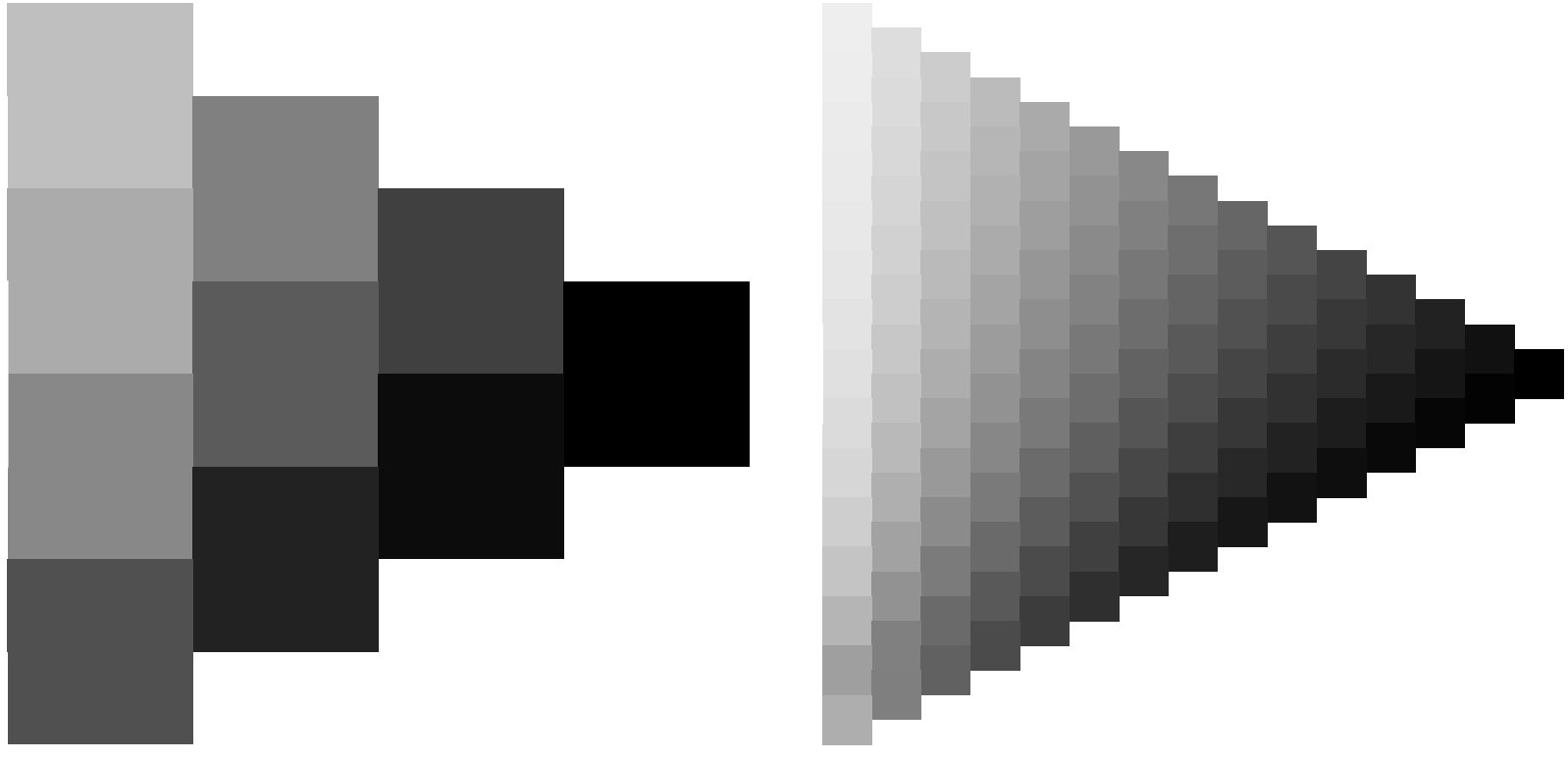






See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1





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Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

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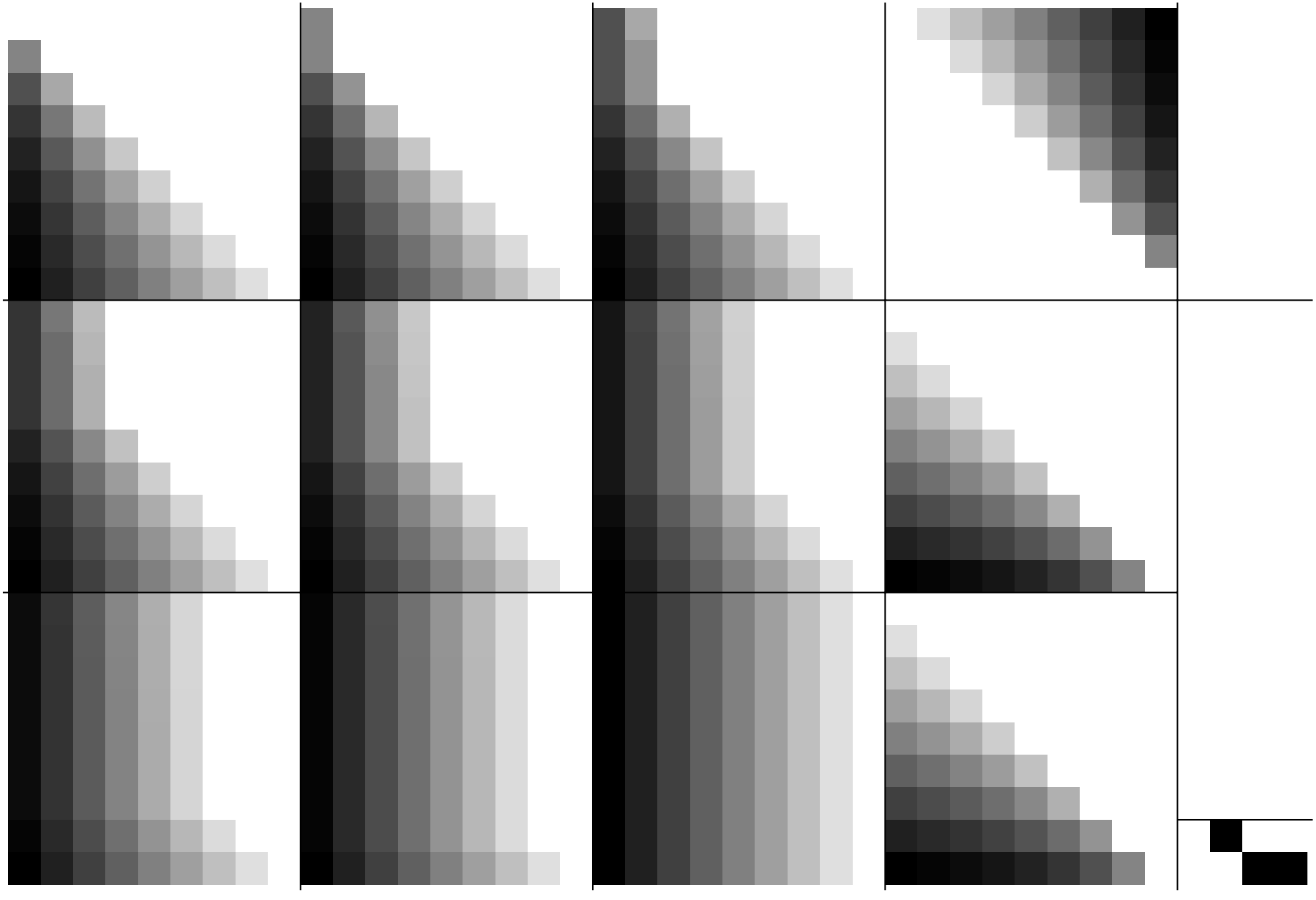

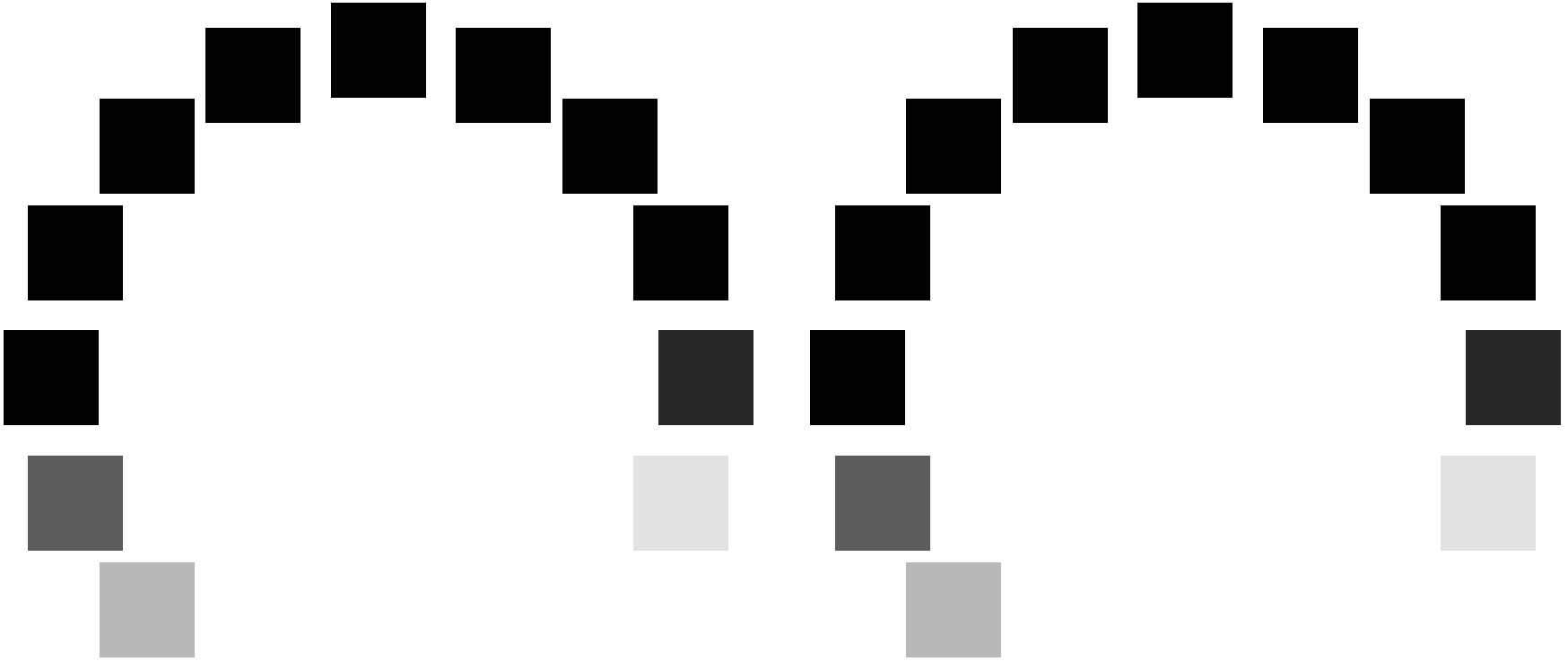

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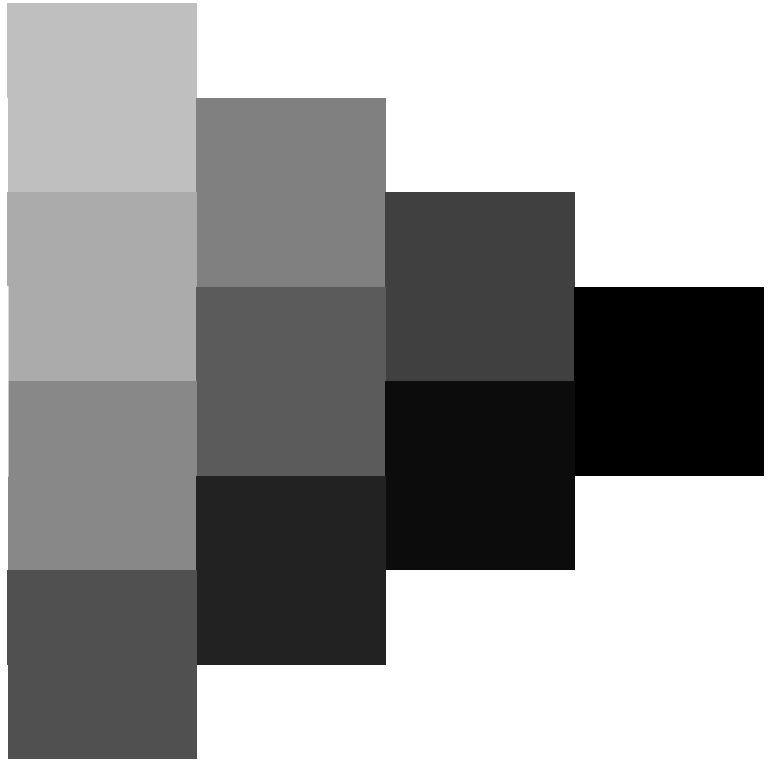
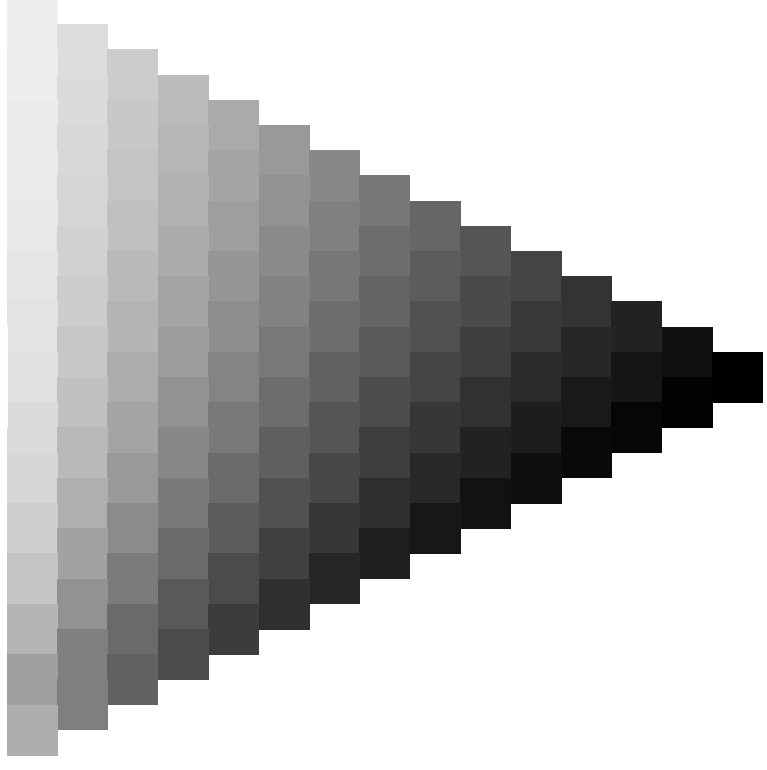
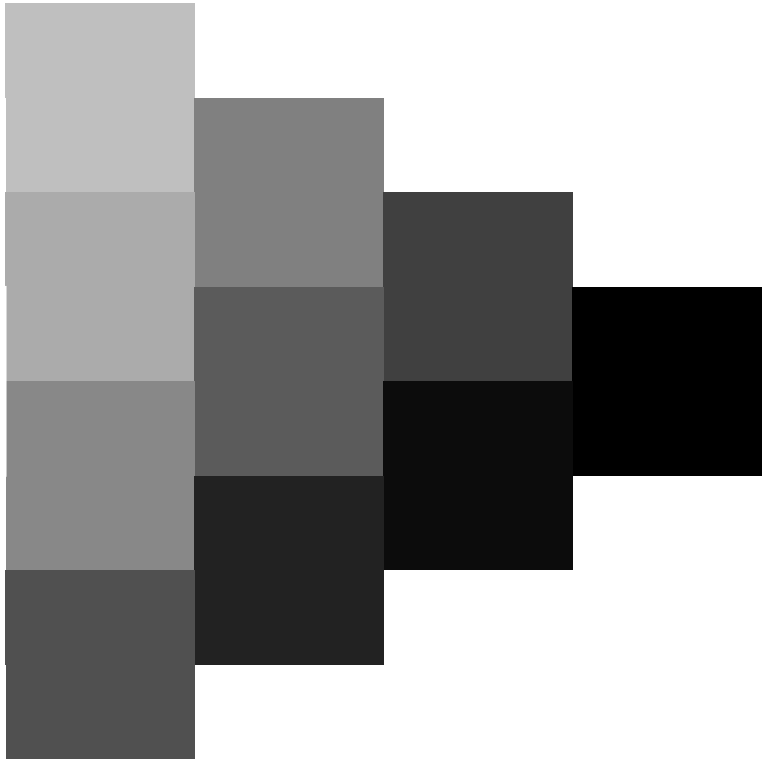
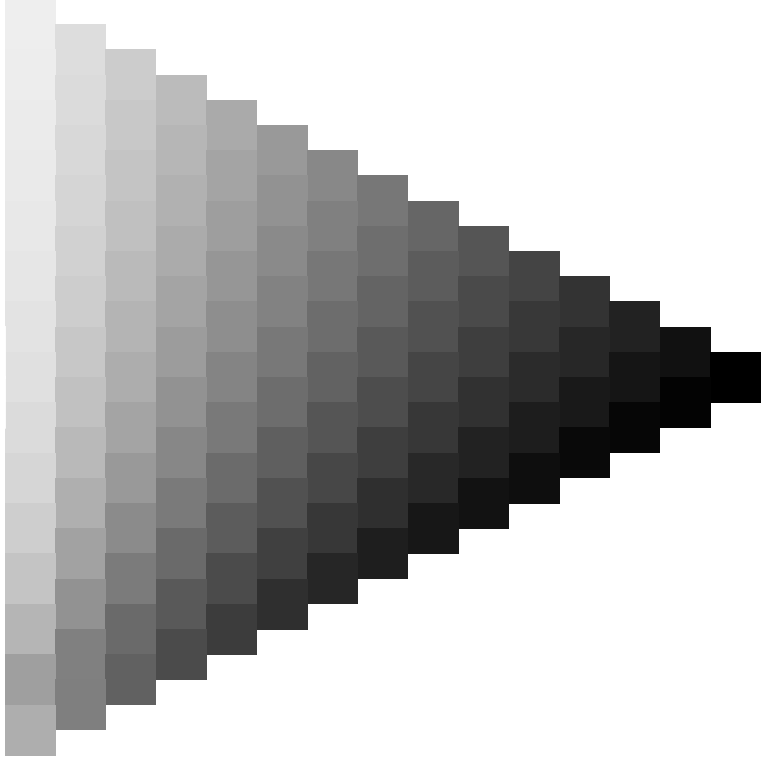
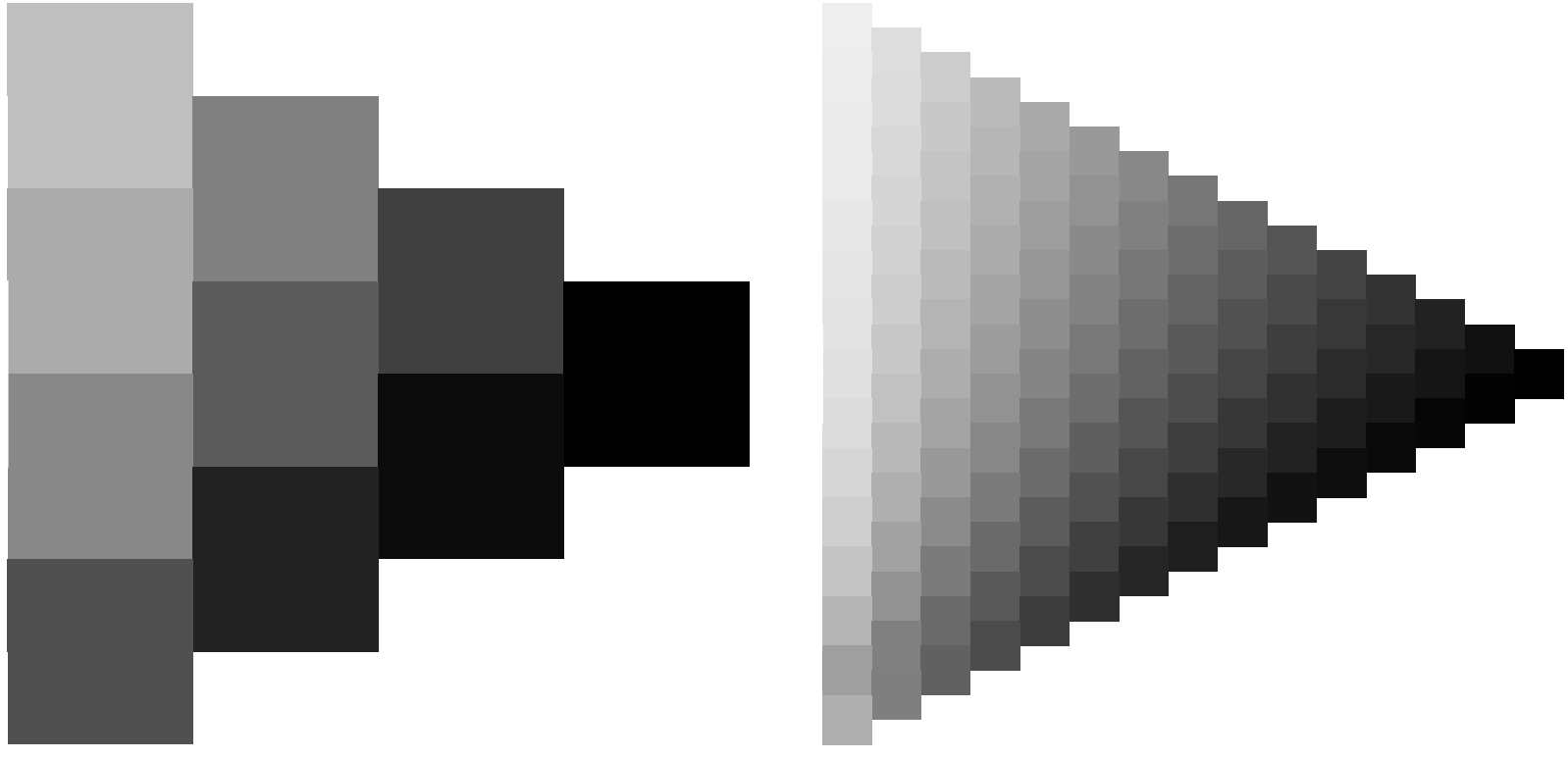
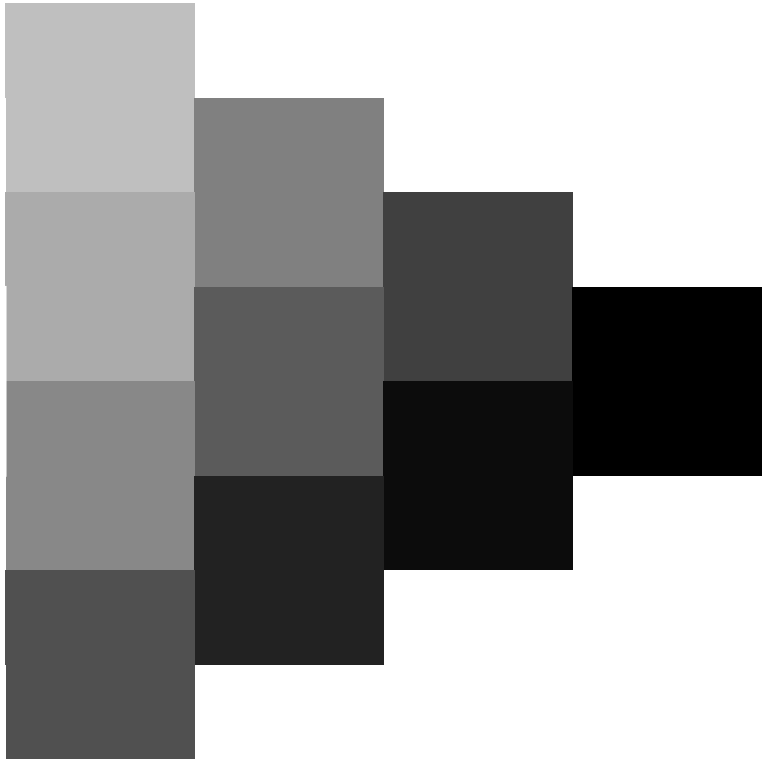


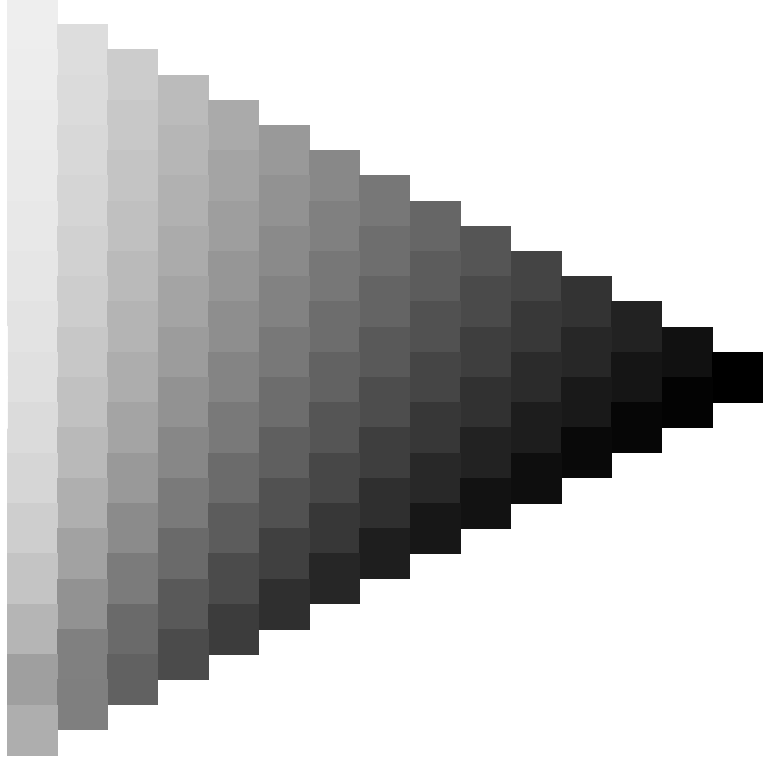






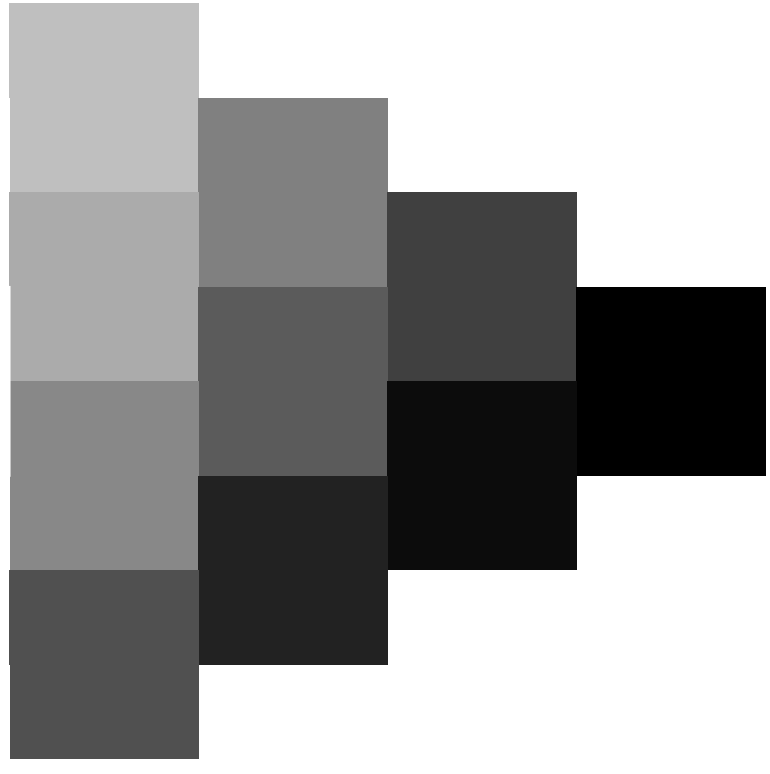


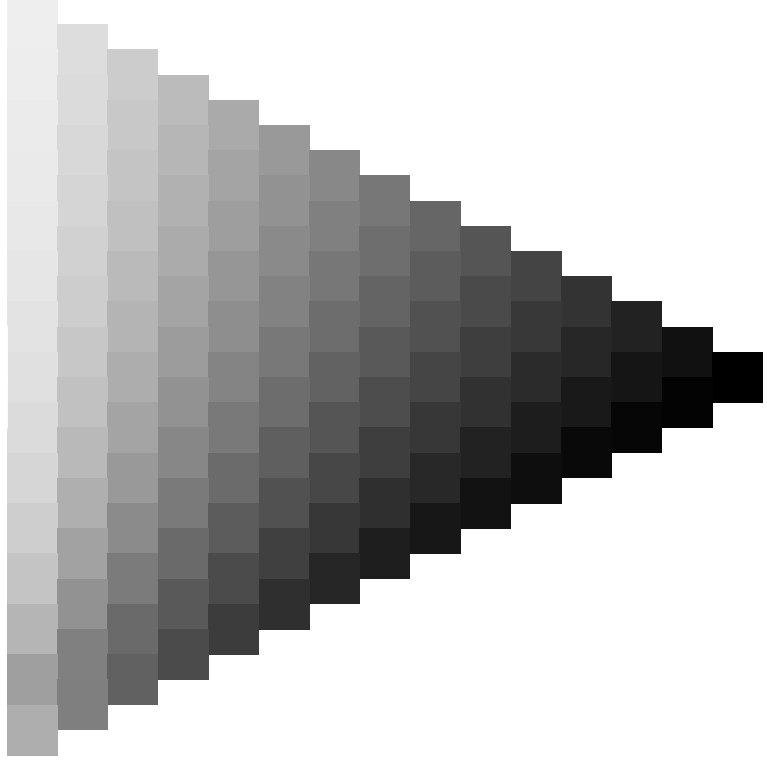


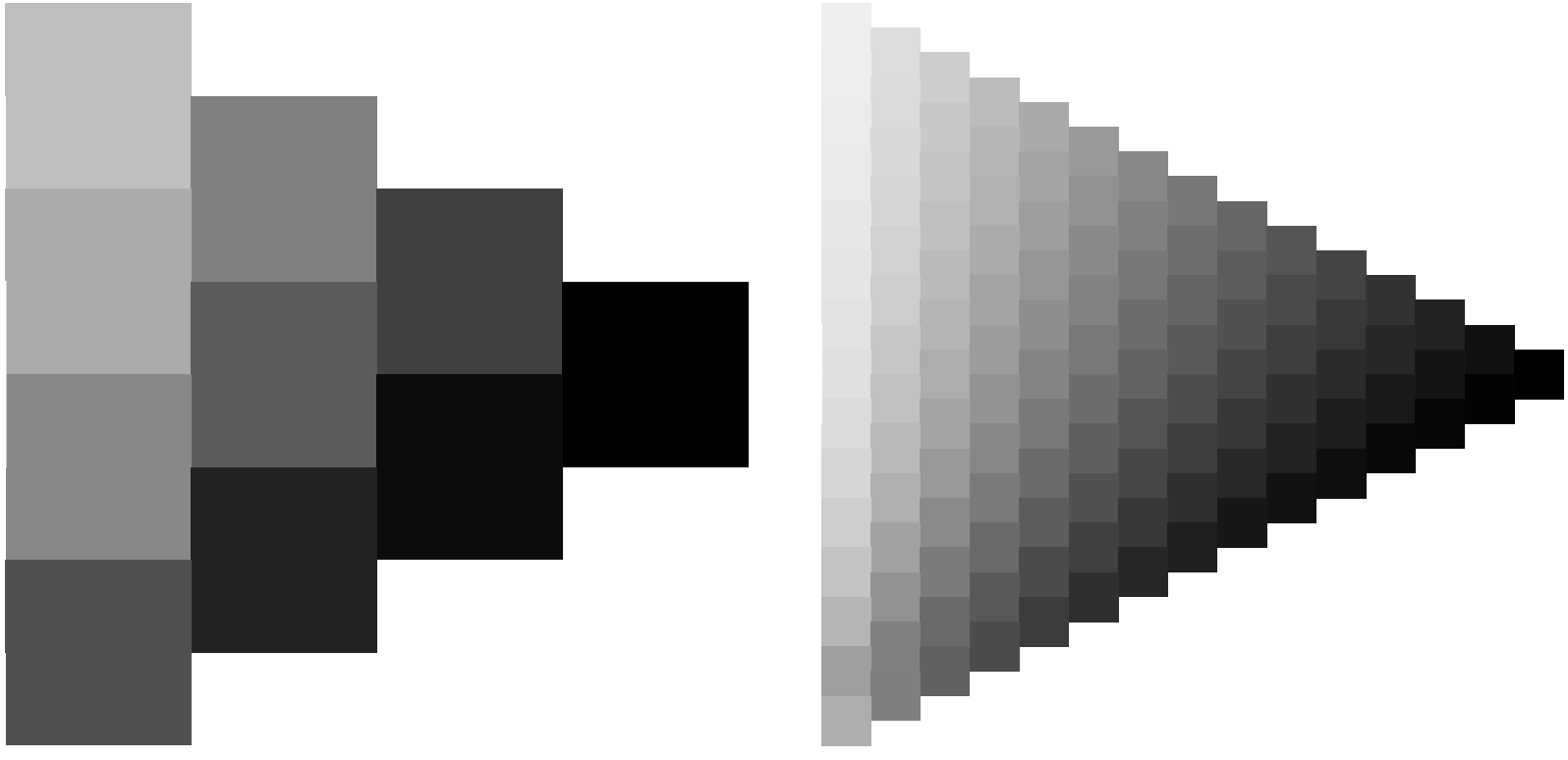


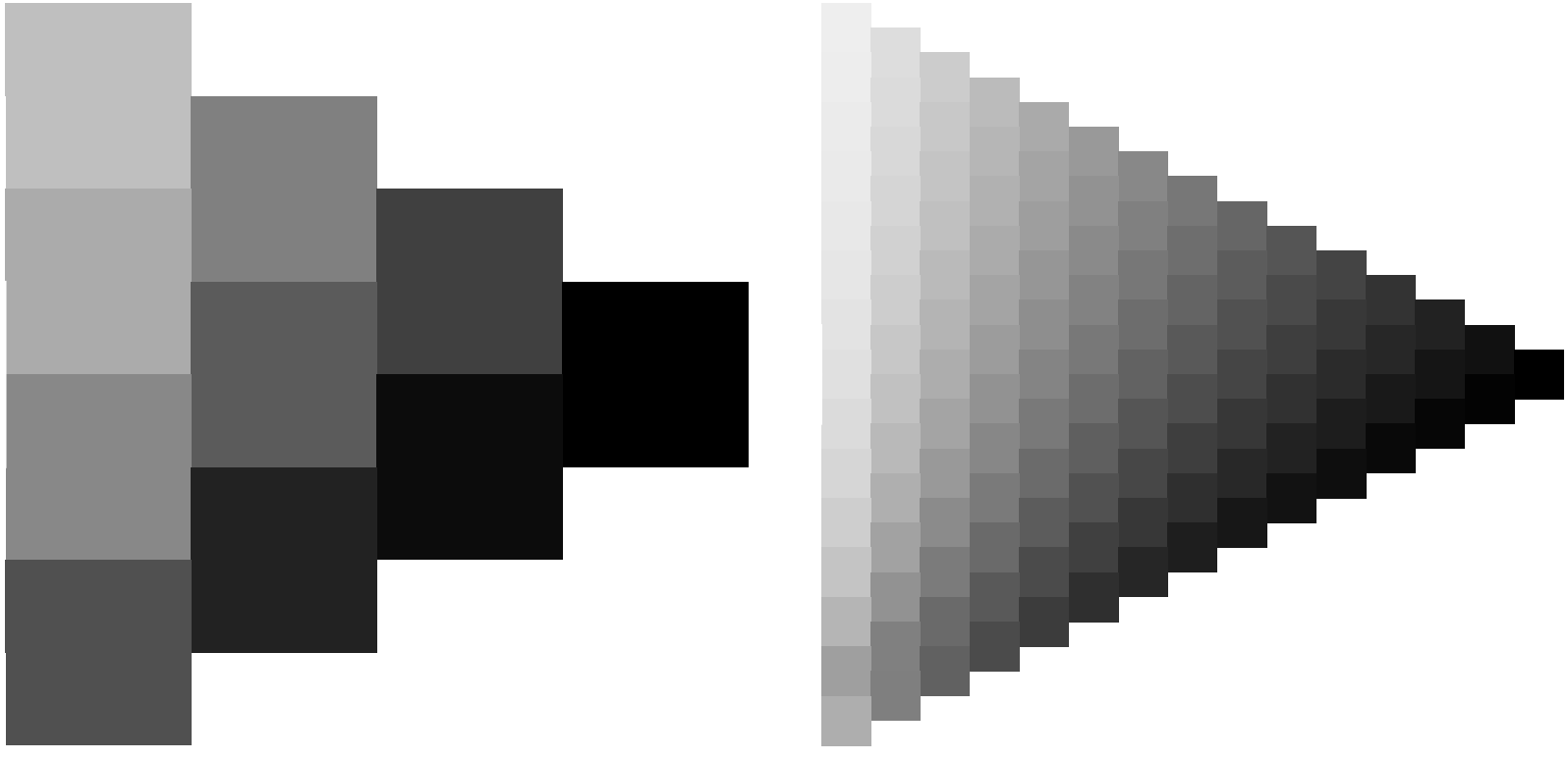
BAM registration: 20081001-Ee12/10L/L12E00NP.PS/ .PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

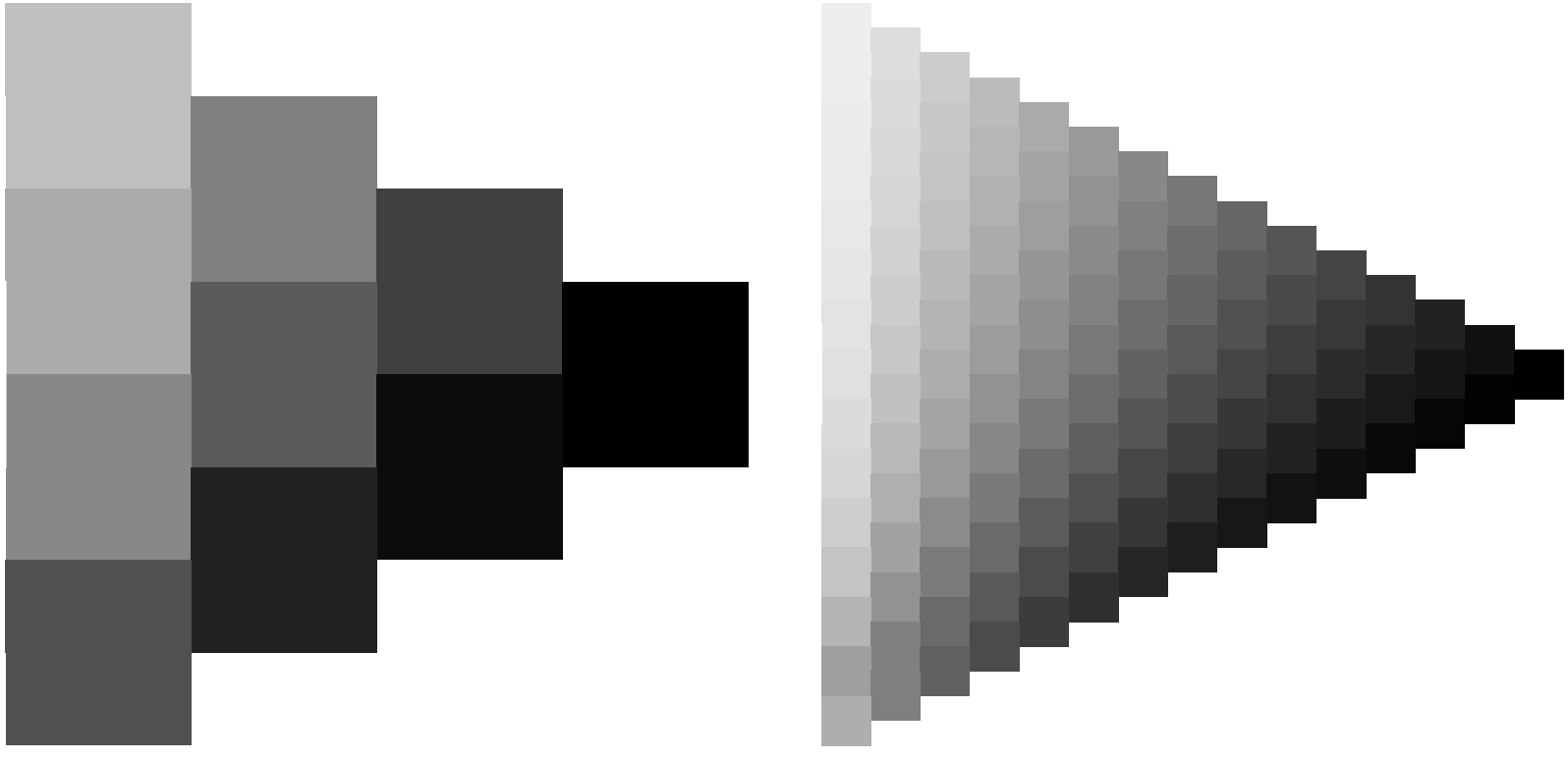
See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

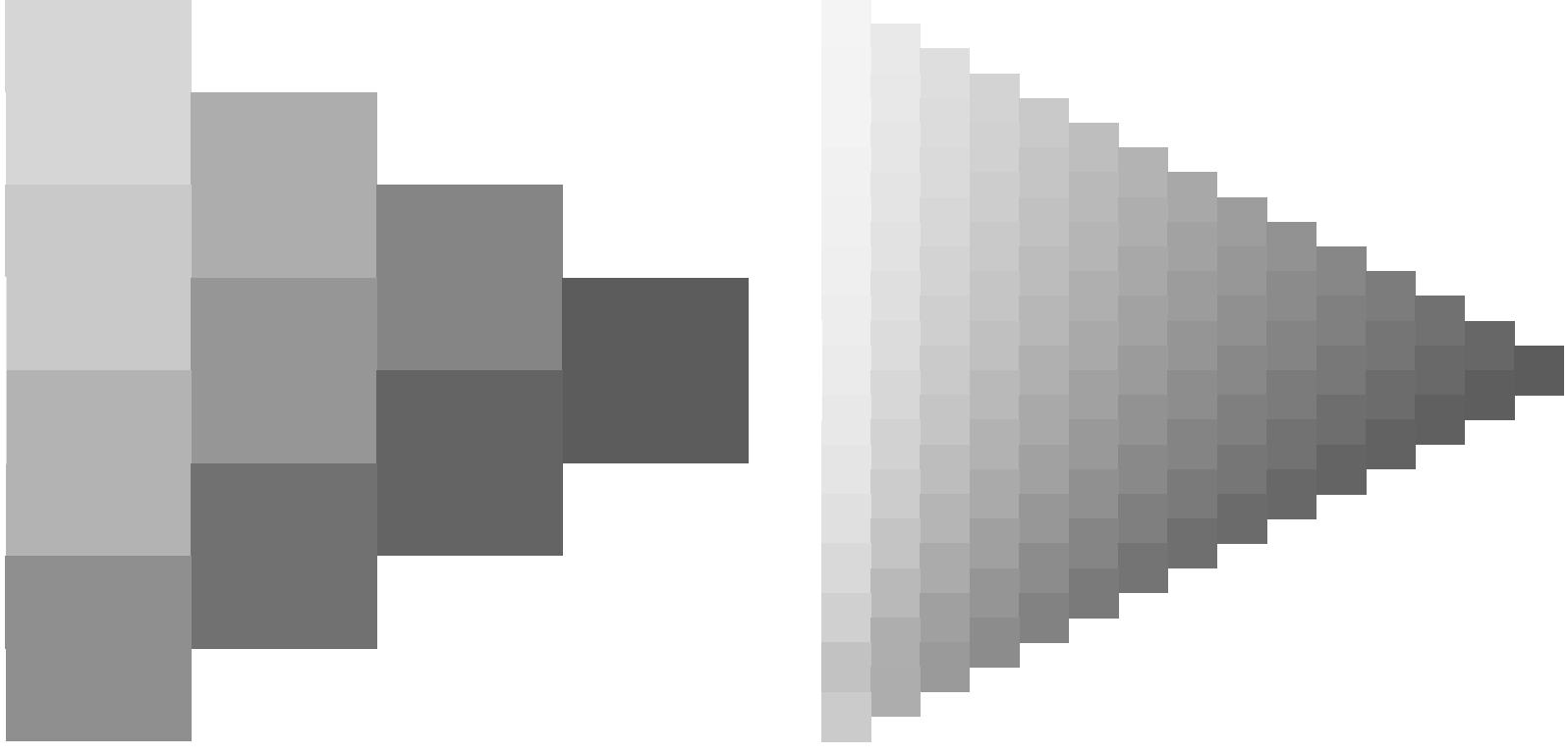


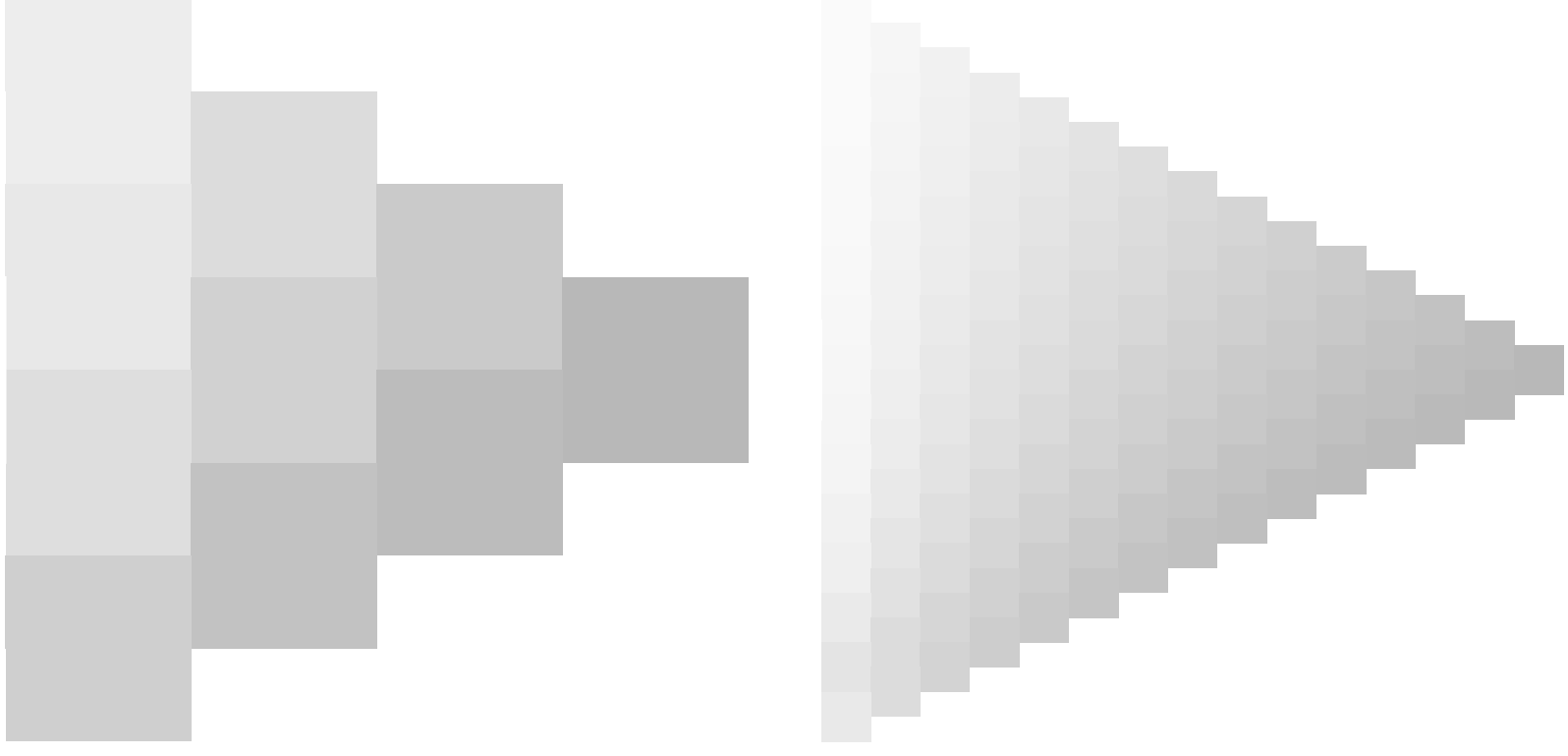


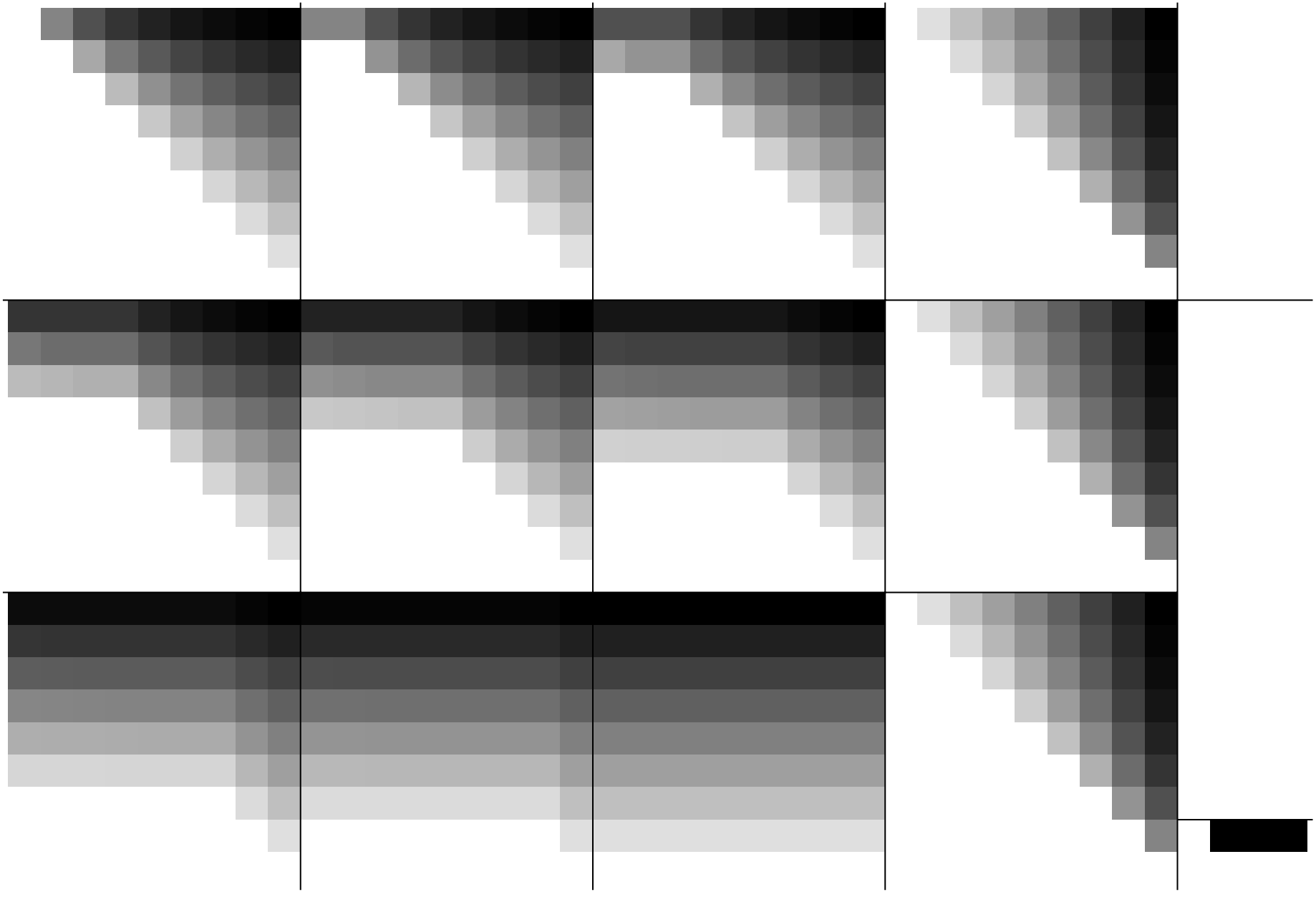








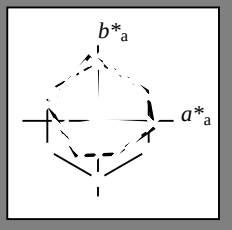




Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

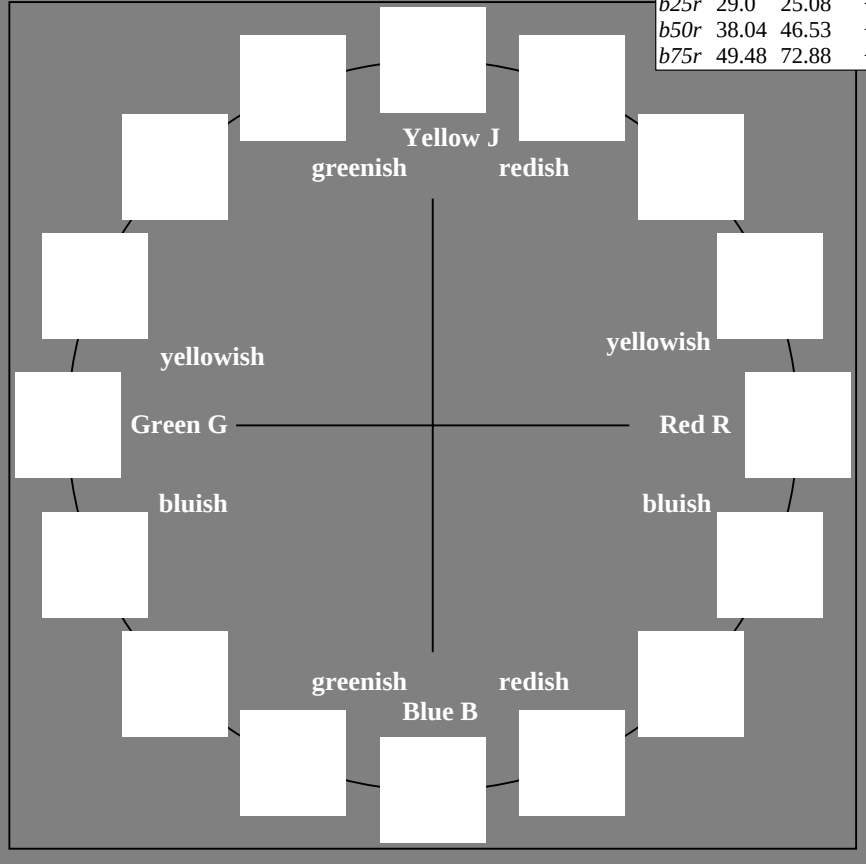
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

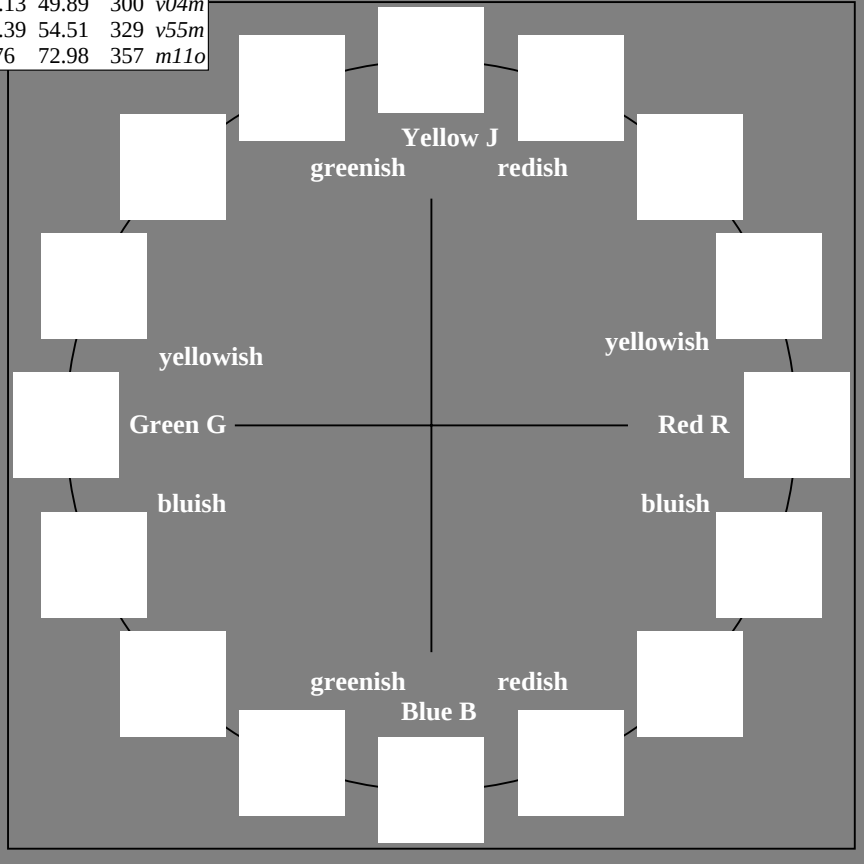


%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

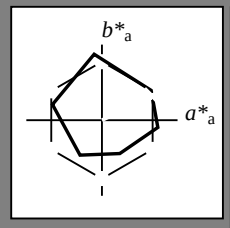
Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071** **u^*_e = *r00j***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

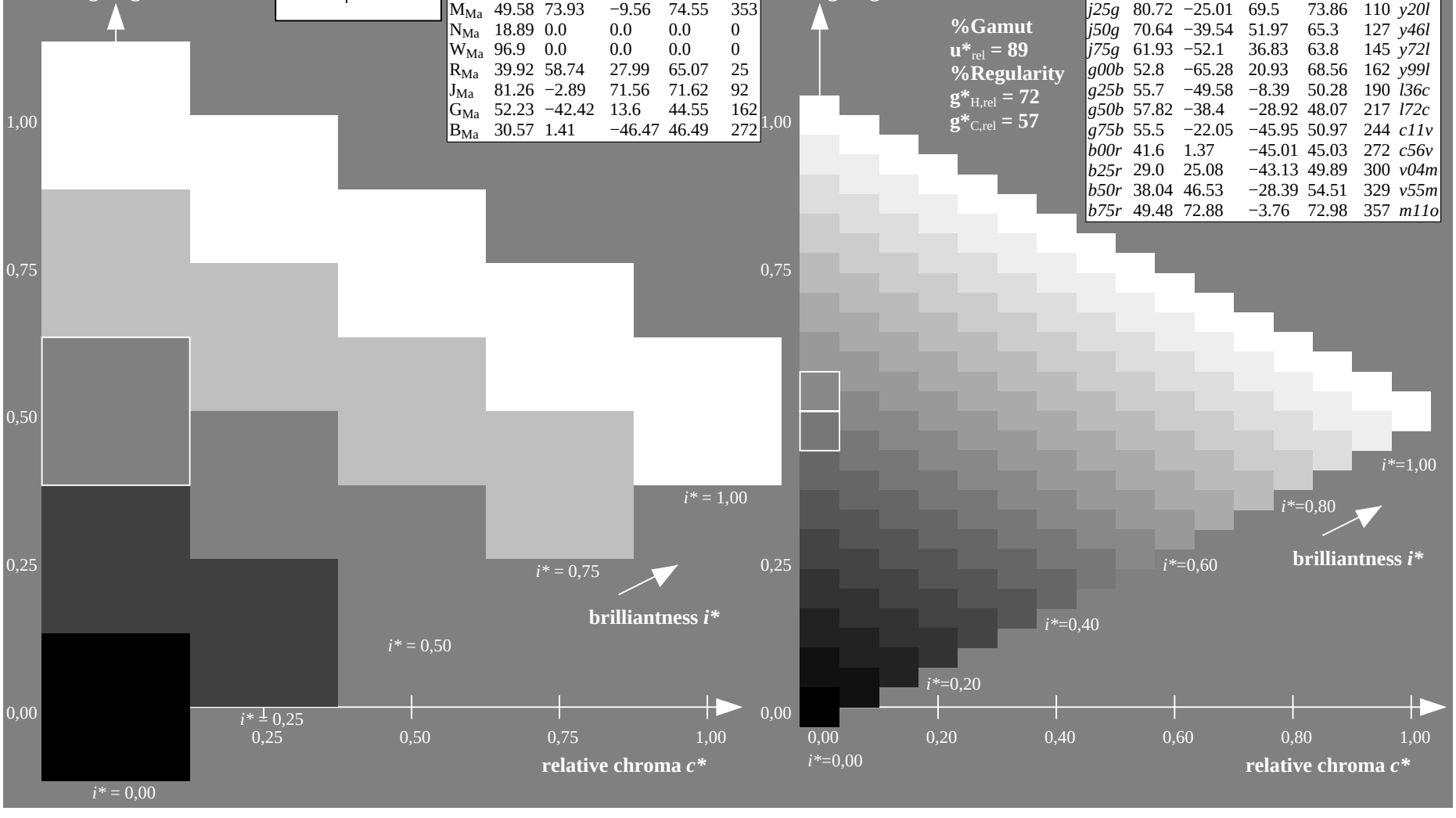
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 49 66 32**
LAB*LCH*$_{Ma}$**: 49 74 25**
lab*rgb*$_{Ma}$**: 1.0 0.0 0.0**
lab*olv*$_{Ma}$**: 1.0 0.0 0.15**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

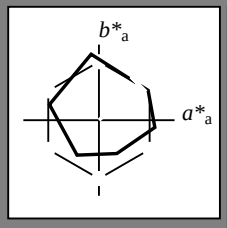
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

u*e* = *r25j

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e* = *r25j ***u*d* = *o17y***
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

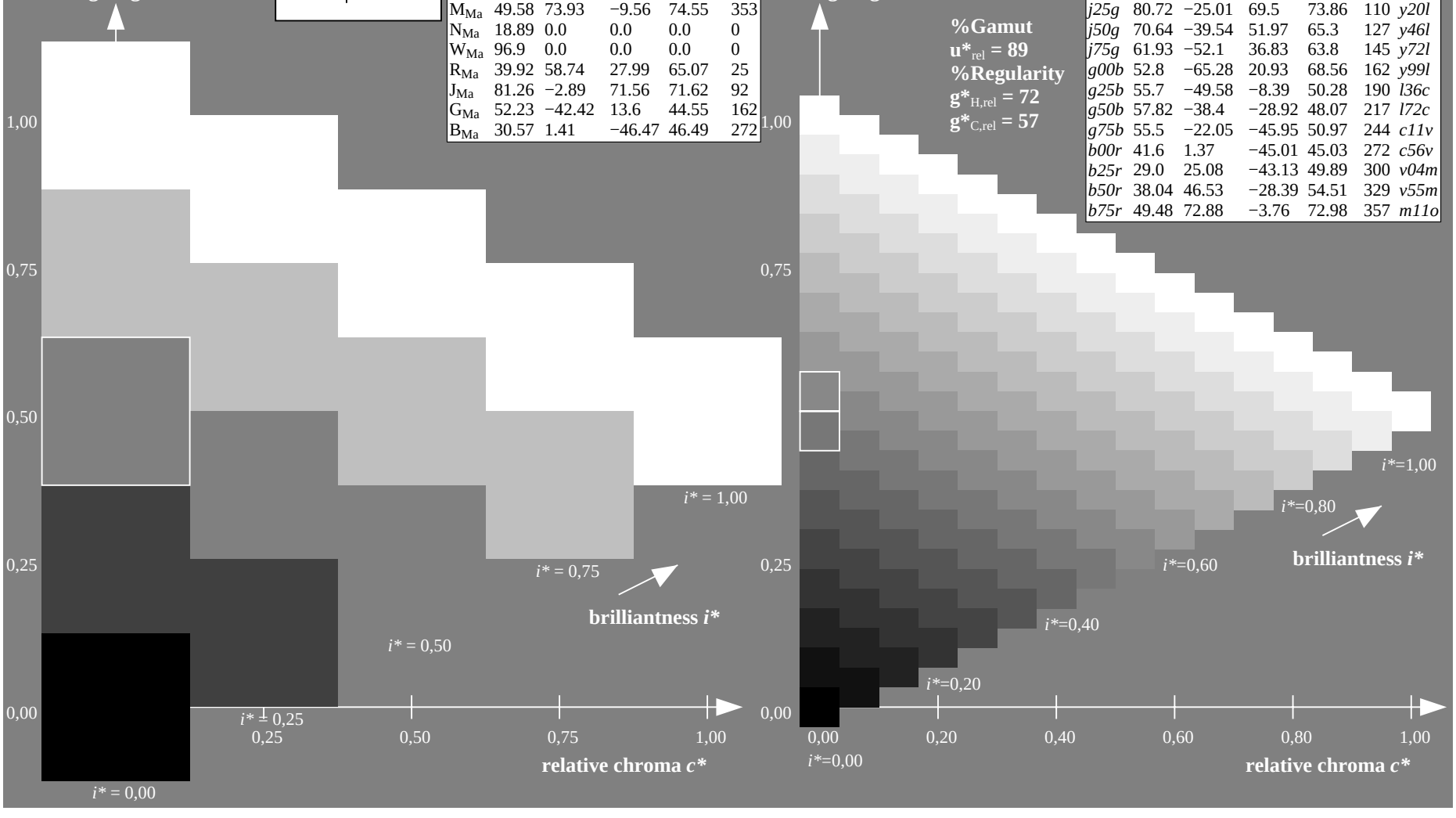
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
***LAB*LAB**Ma*: 56 52 47**
***LAB*LCH**Ma*: 56 71 42**
***lab*rgb**Ma*: 1.0 0.25 0.0**
***lab*olv**Ma*: 1.0 0.17 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

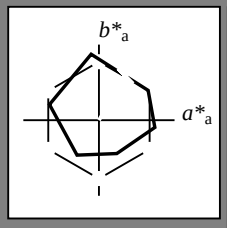
ORS19_96a; adapted (a) CIELAB data

*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164** **u^*_e = *r50j***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

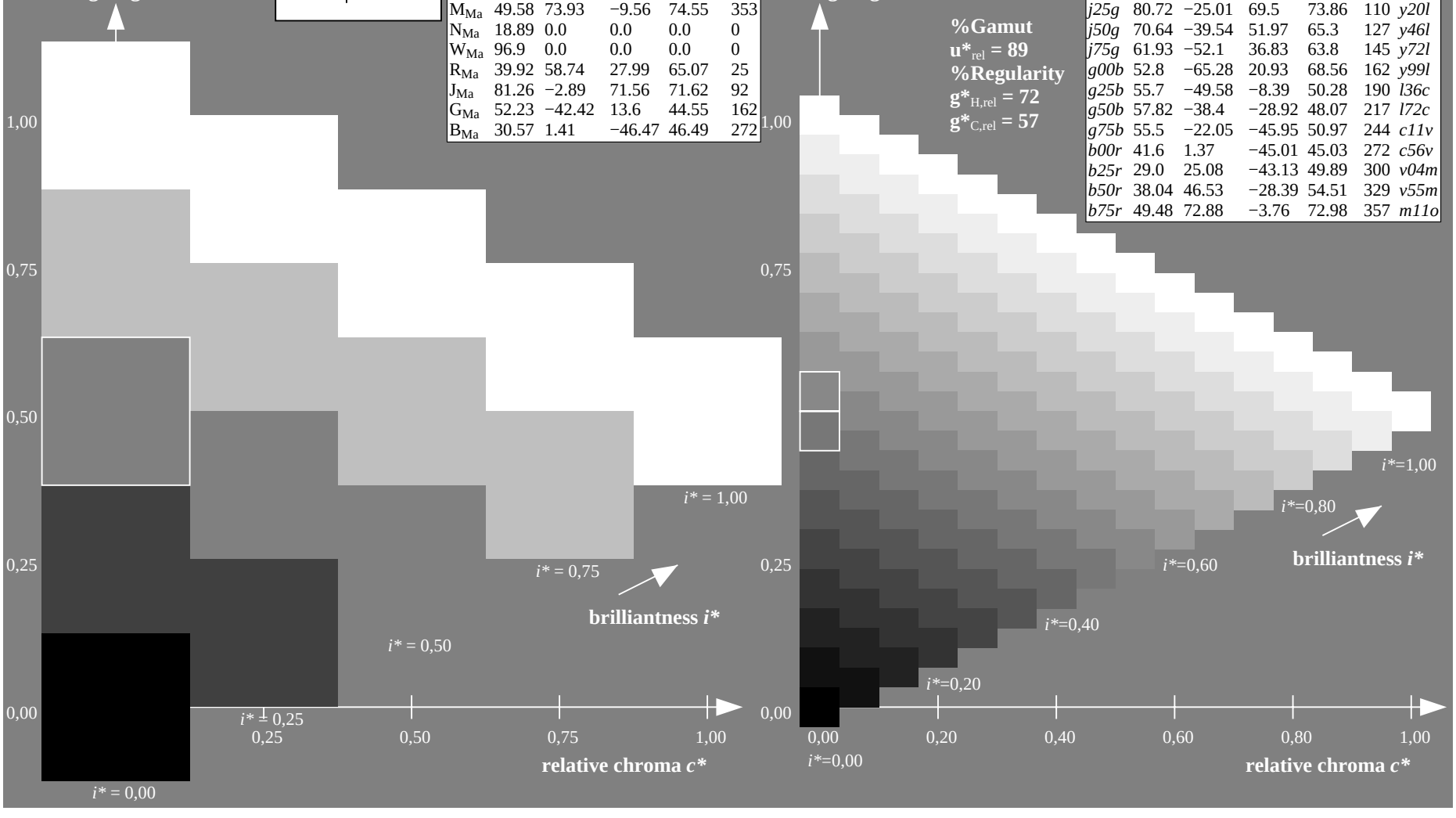
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

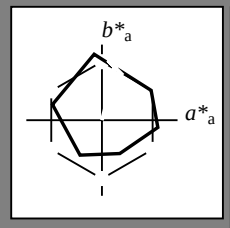
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

u*e = r75j

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = r75j ***u*d = o67y***
contrast reduction factor:
c_R **= 1.0**
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

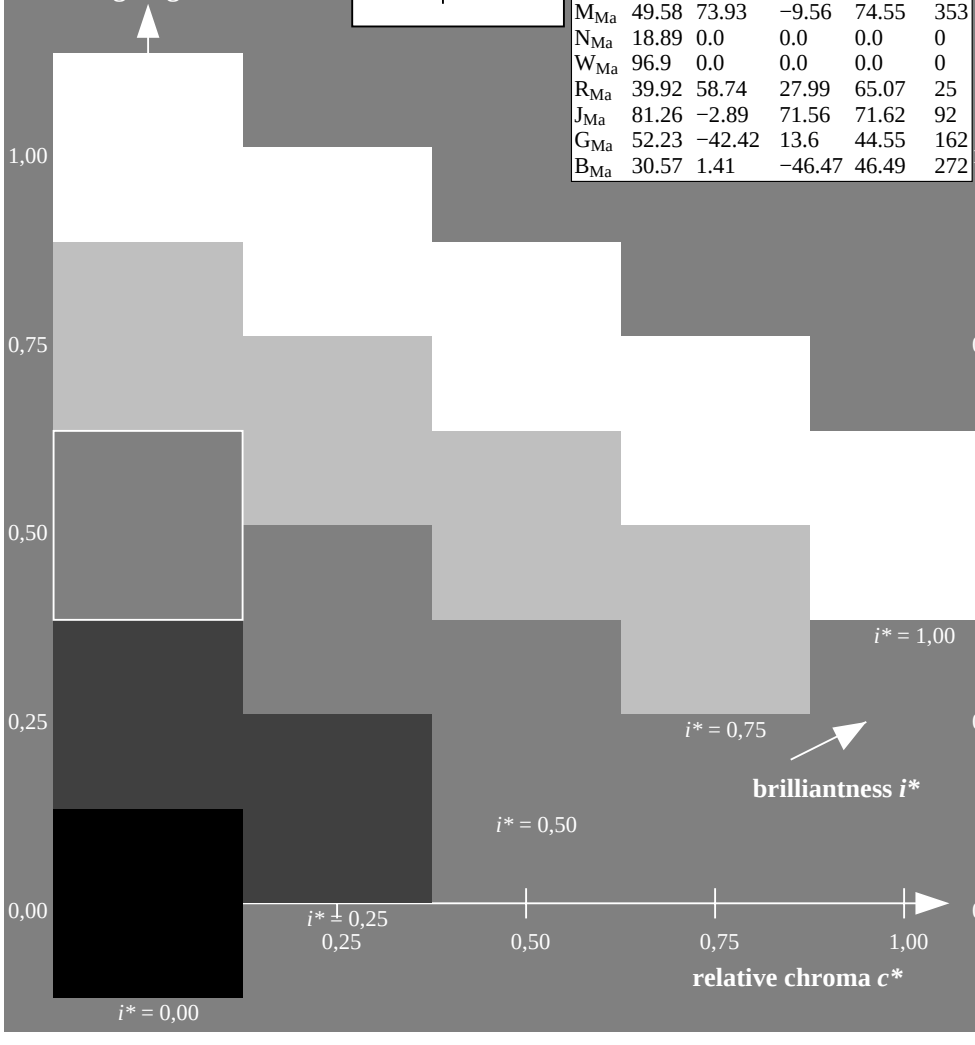
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

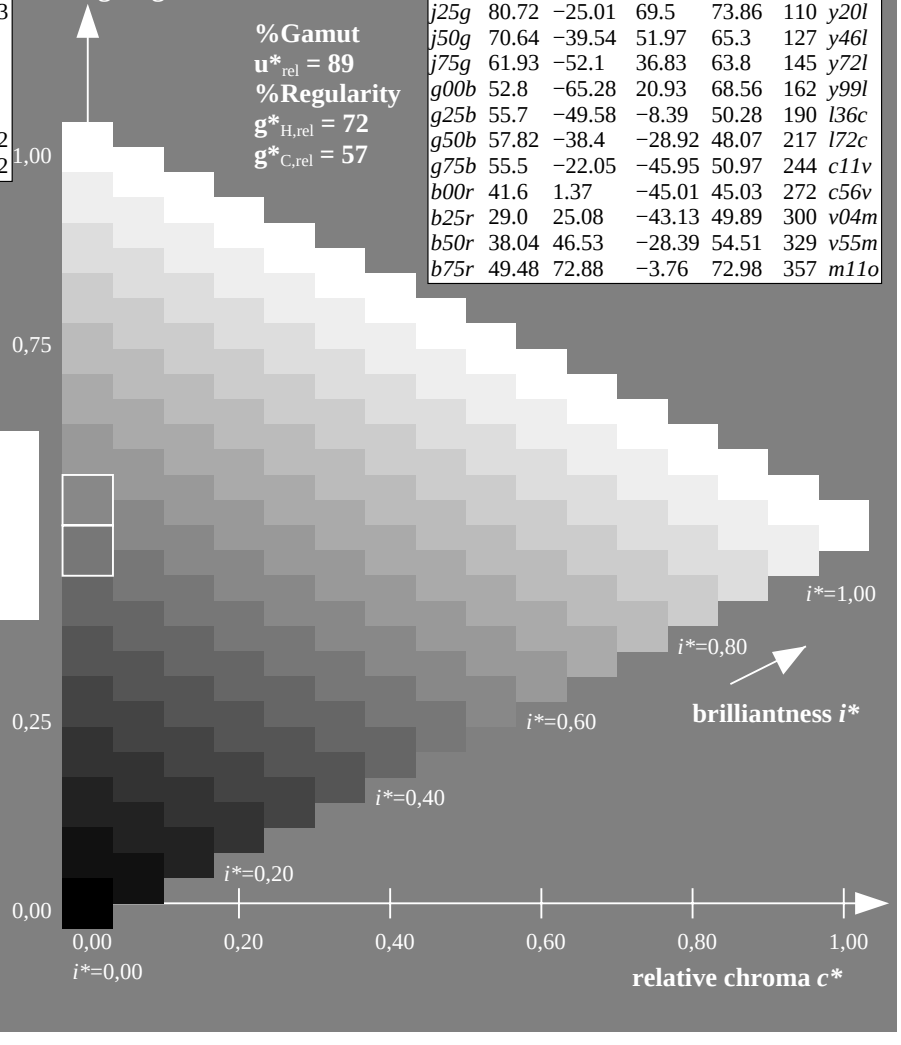
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 75 18 69**
LAB*LCH*$_{Ma}$**: 75 72 75**
lab*rgb*$_{Ma}$**: 1.0 0.75 0.0**
lab*olv*$_{Ma}$**: 1.0 0.68 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

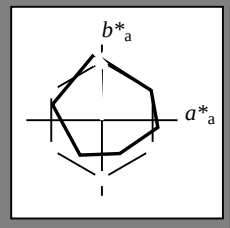




input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256** **u^*_e = *j00g***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

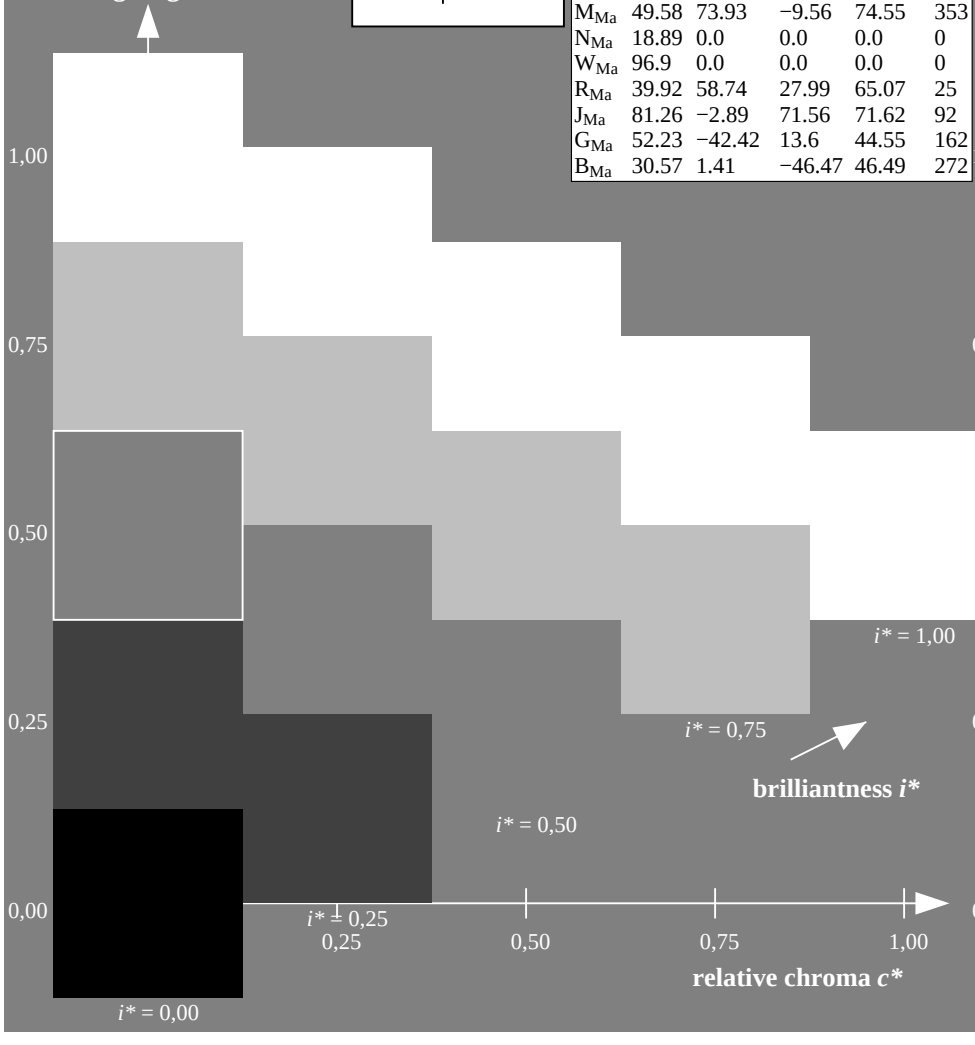
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

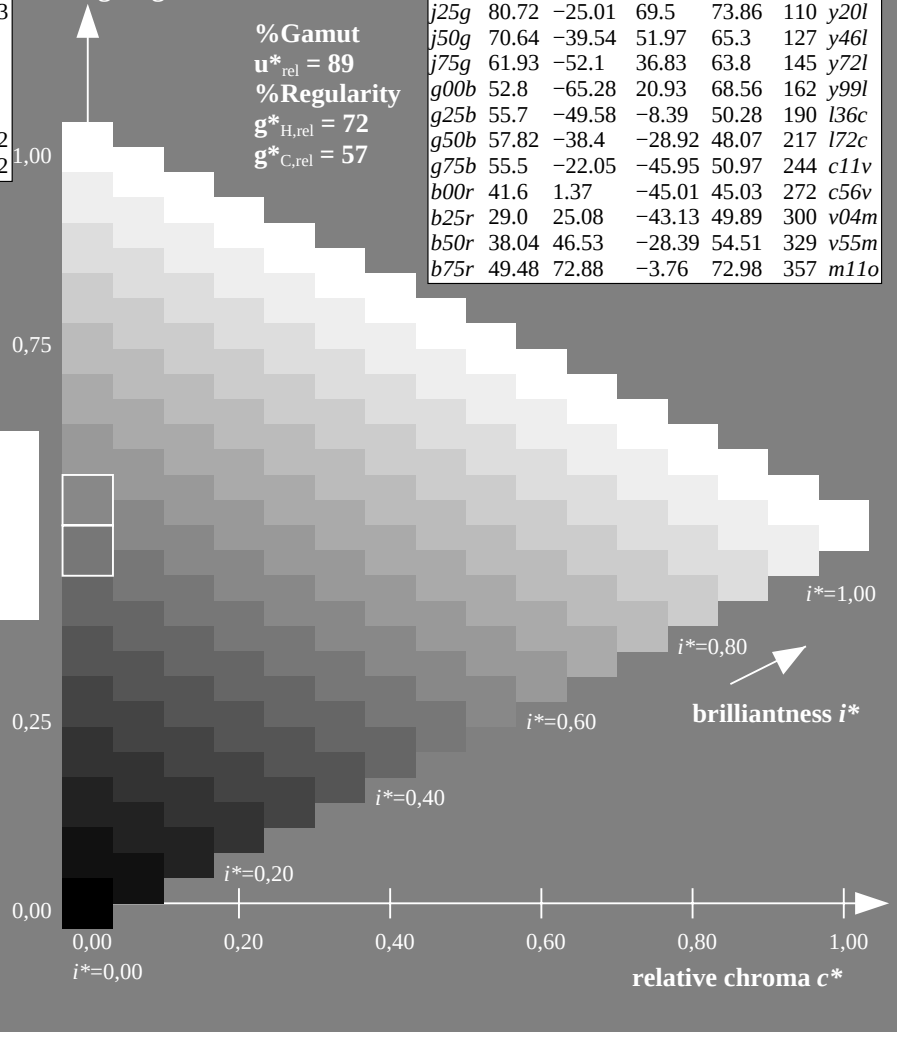
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 87 −3 83**
LAB*LCH*$_{Ma}$**: 87 83 92**
lab*rgb*$_{Ma}$**: 1.0 1.0 0.0**
lab*olv*$_{Ma}$**: 1.0 0.93 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

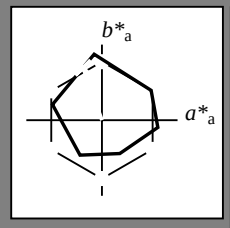




input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.305** **u^*_e = *j25g***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

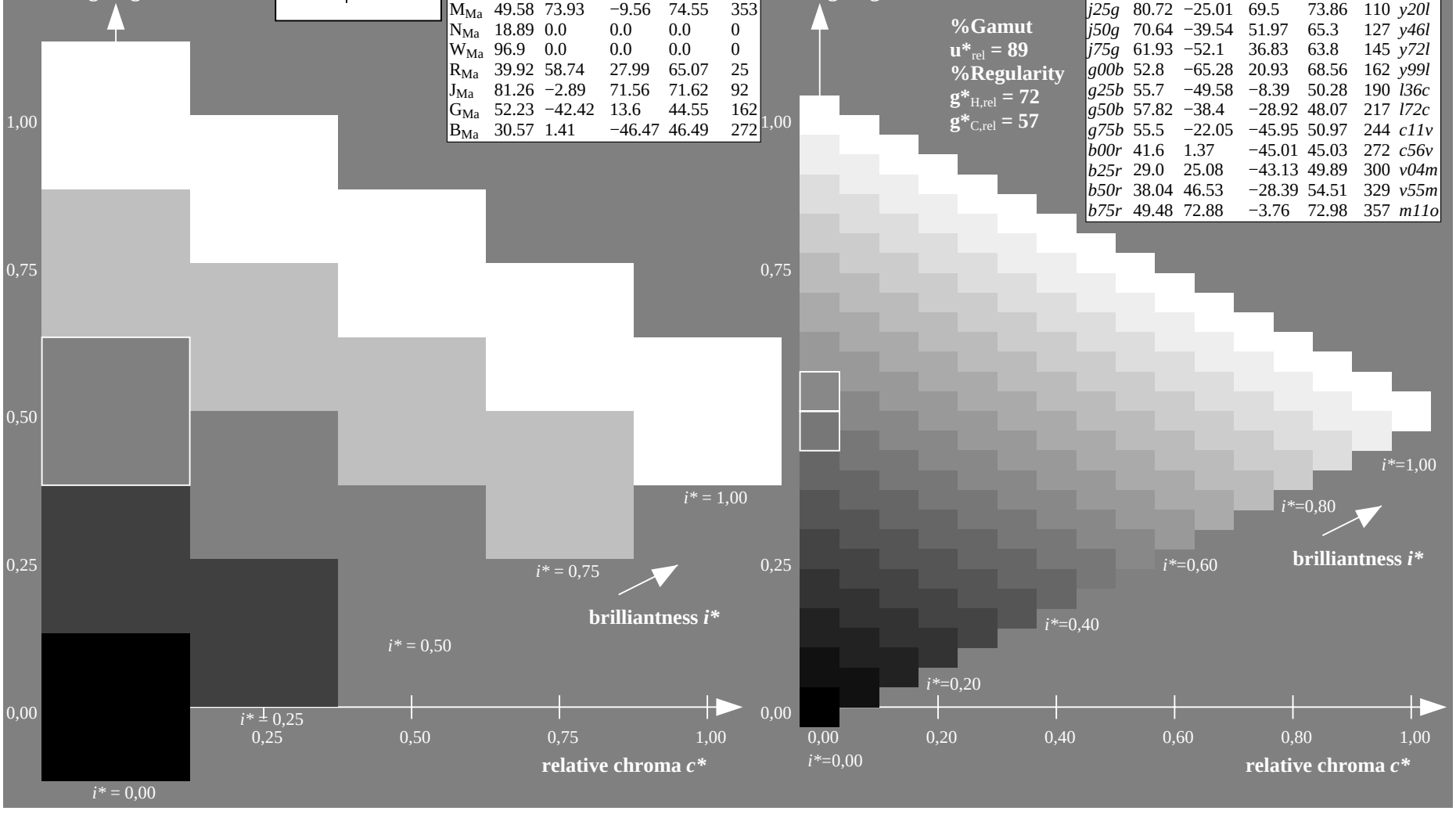
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 81 −25 69**
LAB*LCH*$_{Ma}$**: 81 74 109**
lab*rgb*$_{Ma}$**: 0.75 1.0 0.0**
lab*olv*$_{Ma}$**: 0.8 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

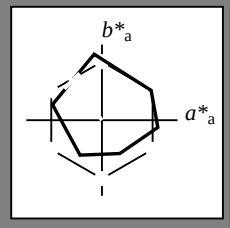
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

u*e = j50g

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u*e = j50g ***u*d = y46l***
contrast reduction factor:
c_R **= 1.0**
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

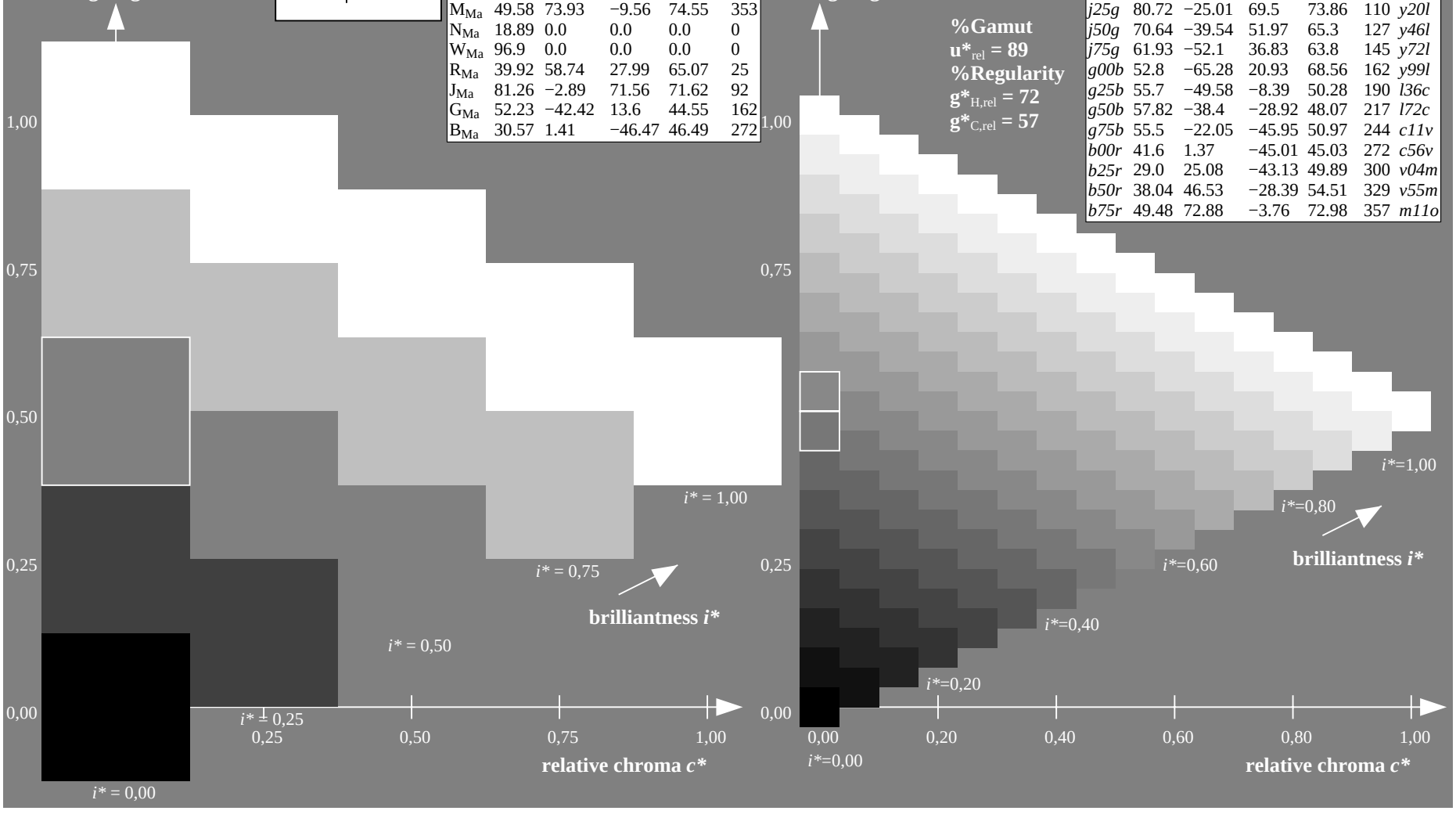
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 71 −40 52**
LAB*LCH*$_{Ma}$**: 71 65 127**
lab*rgb*$_{Ma}$**: 0.5 1.0 0.0**
lab*olv*$_{Ma}$**: 0.54 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

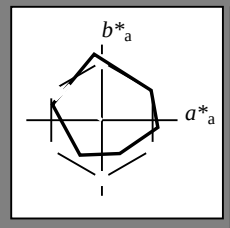
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402** **u^*_e = *j75g***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

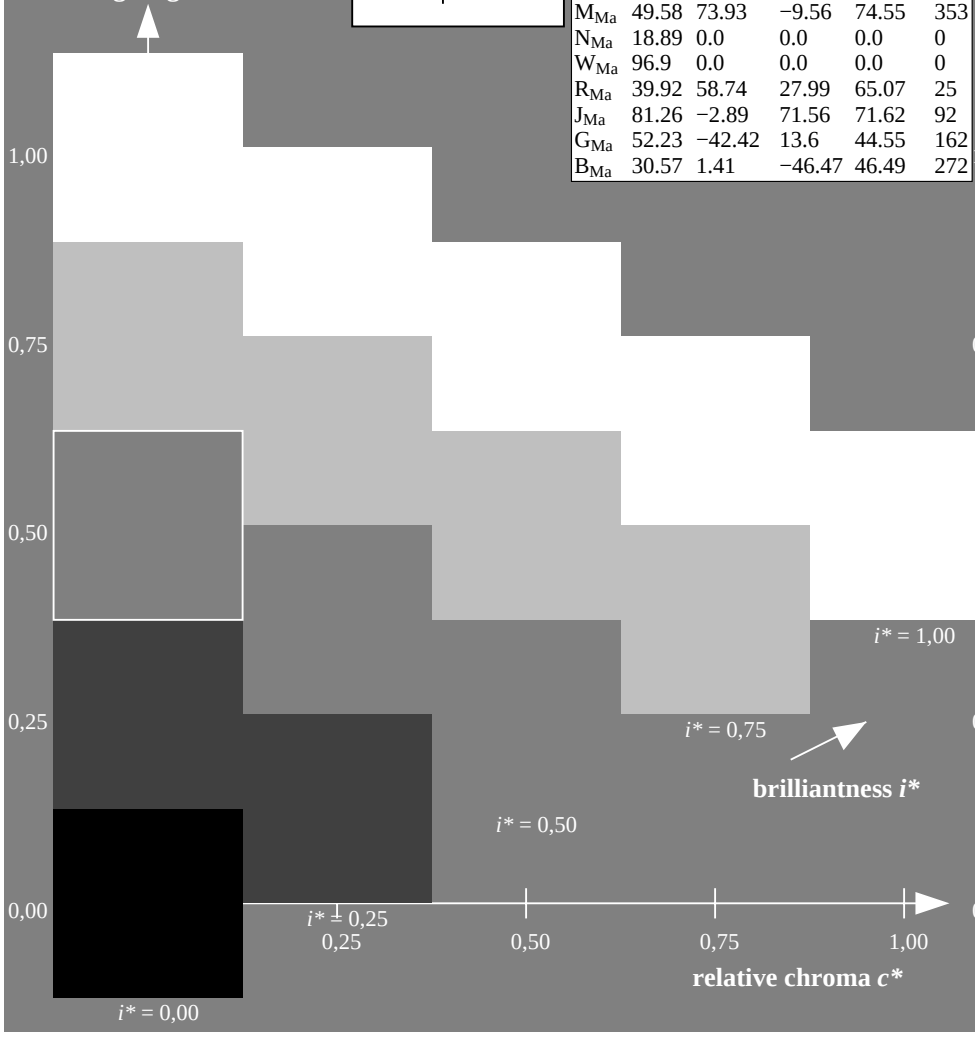
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

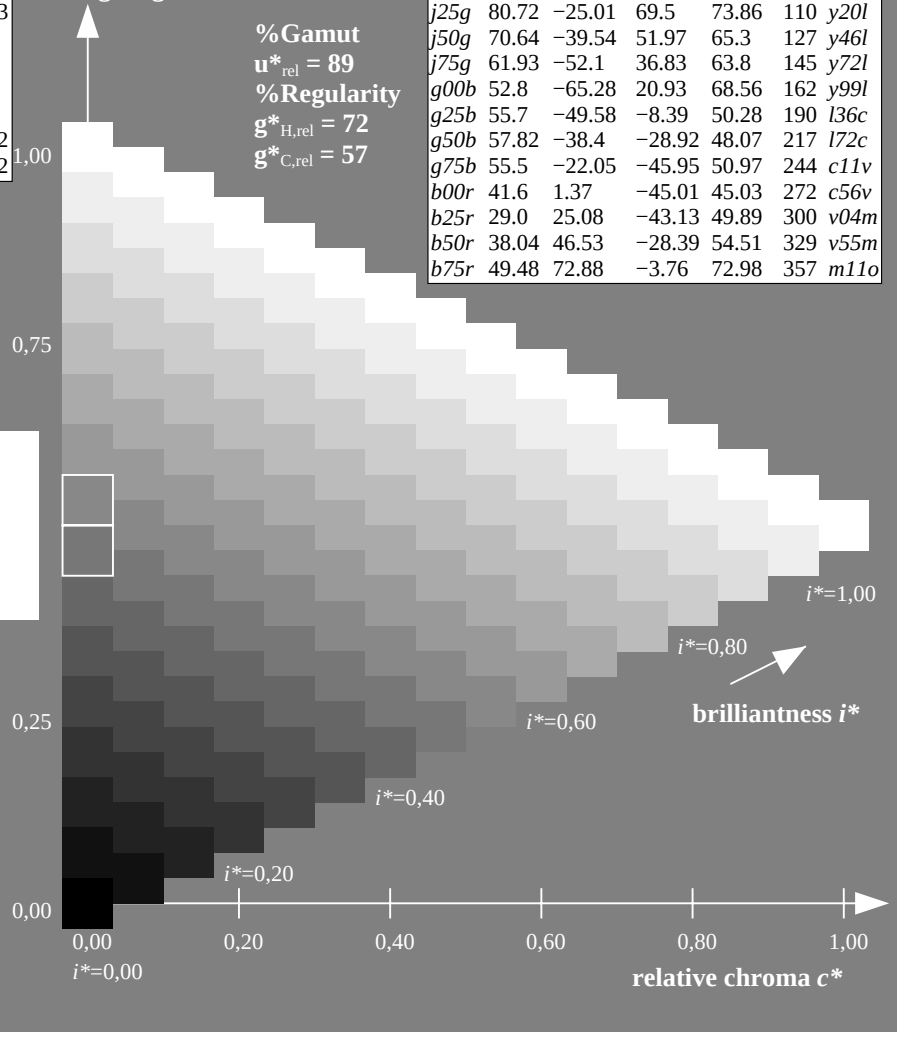
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 62 −52 37**
LAB*LCH*$_{Ma}$**: 62 64 144**
lab*rgb*$_{Ma}$**: 0.25 1.0 0.0**
lab*olv*$_{Ma}$**: 0.27 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

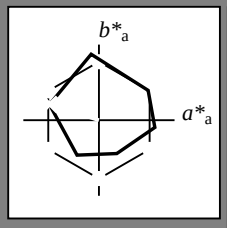
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.451** **u^*_e = *g00b***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *g00b* u^*_d = *y99l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

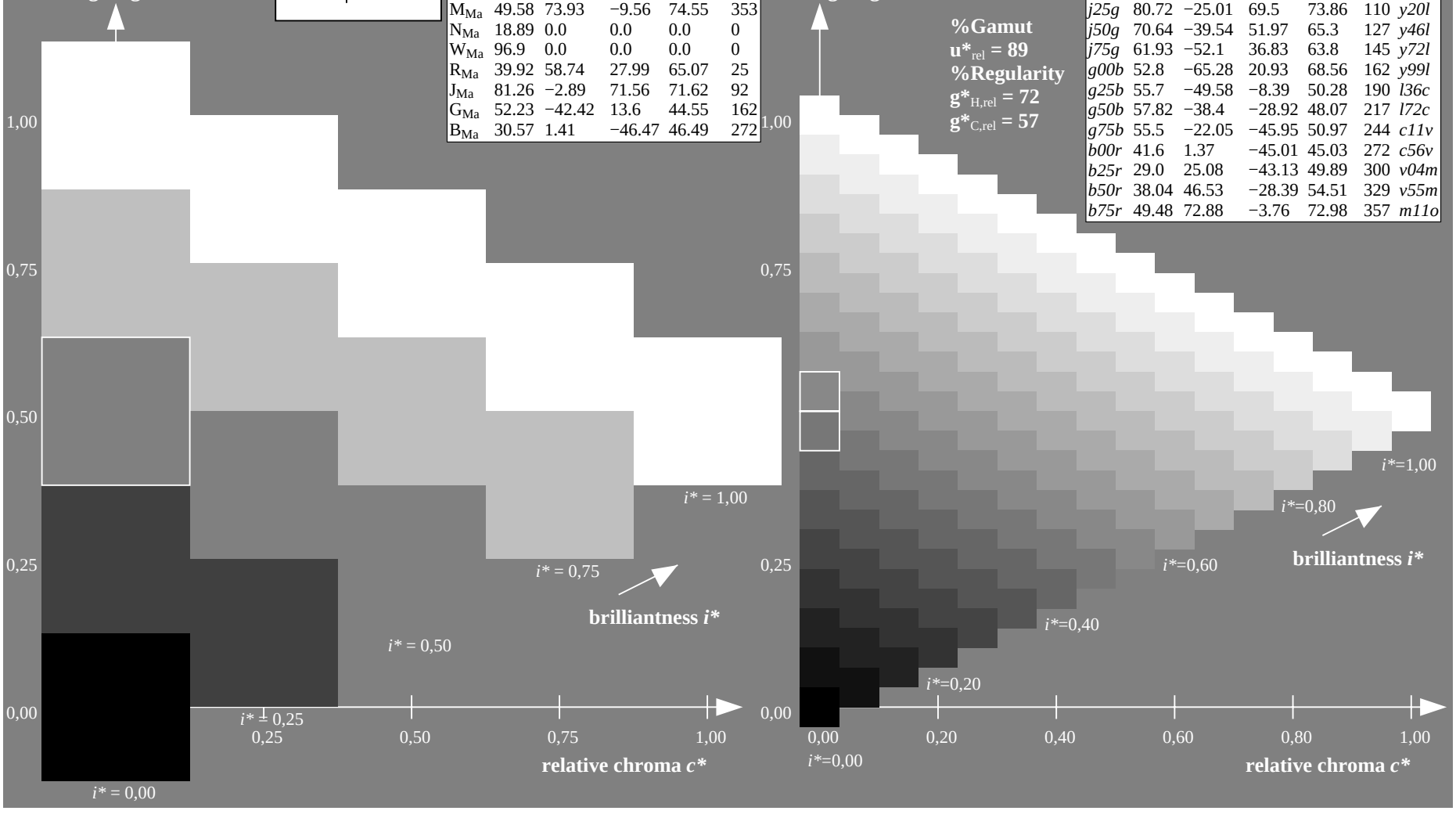
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 53 −65 21**
LAB*LCH*$_{Ma}$**: 53 69 162**
lab*rgb*$_{Ma}$**: 0.0 1.0 0.0**
lab*olv*$_{Ma}$**: 0.0 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

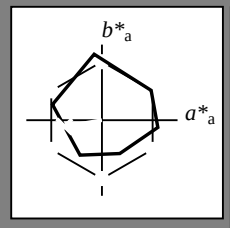
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.527** **$u^*_e = g25b$**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
$u^*_e = g25b$ $u^*_d = l36c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

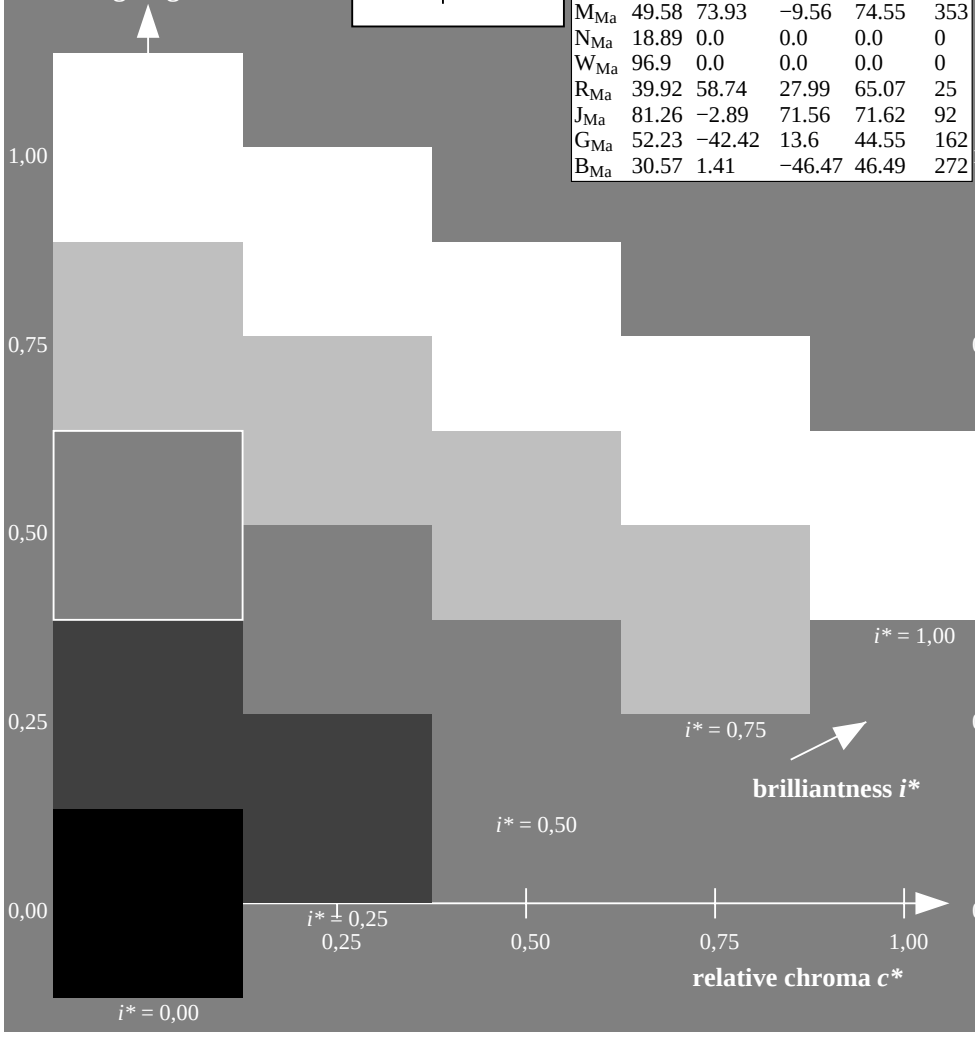
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

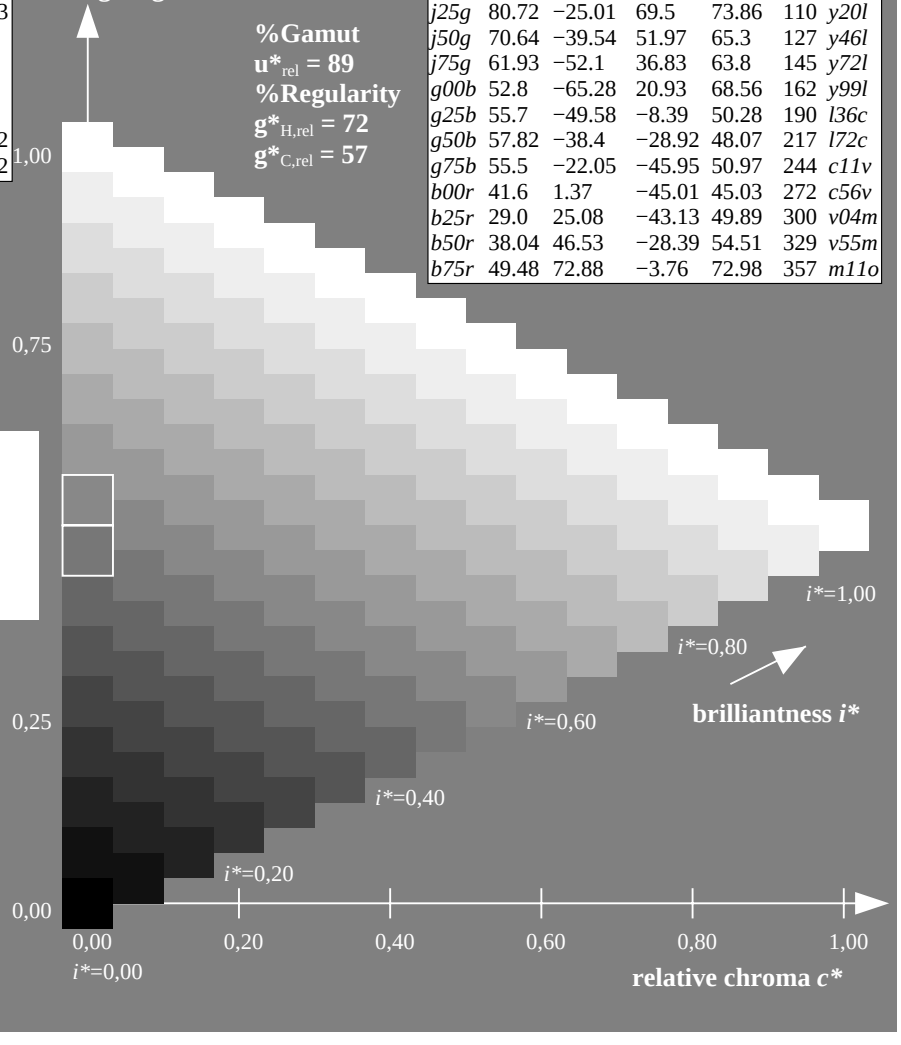
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 56 −50 −8**
LAB*LCH*$_{Ma}$**: 56 50 189**
lab*rgb*$_{Ma}$**: 0.0 1.0 0.5**
lab*olv*$_{Ma}$**: 0.0 1.0 0.36**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

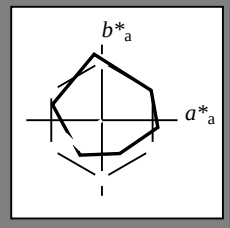
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.603** **$u^*_e = g50b$**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
$u^*_e = g50b$ $u^*_d = l72c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

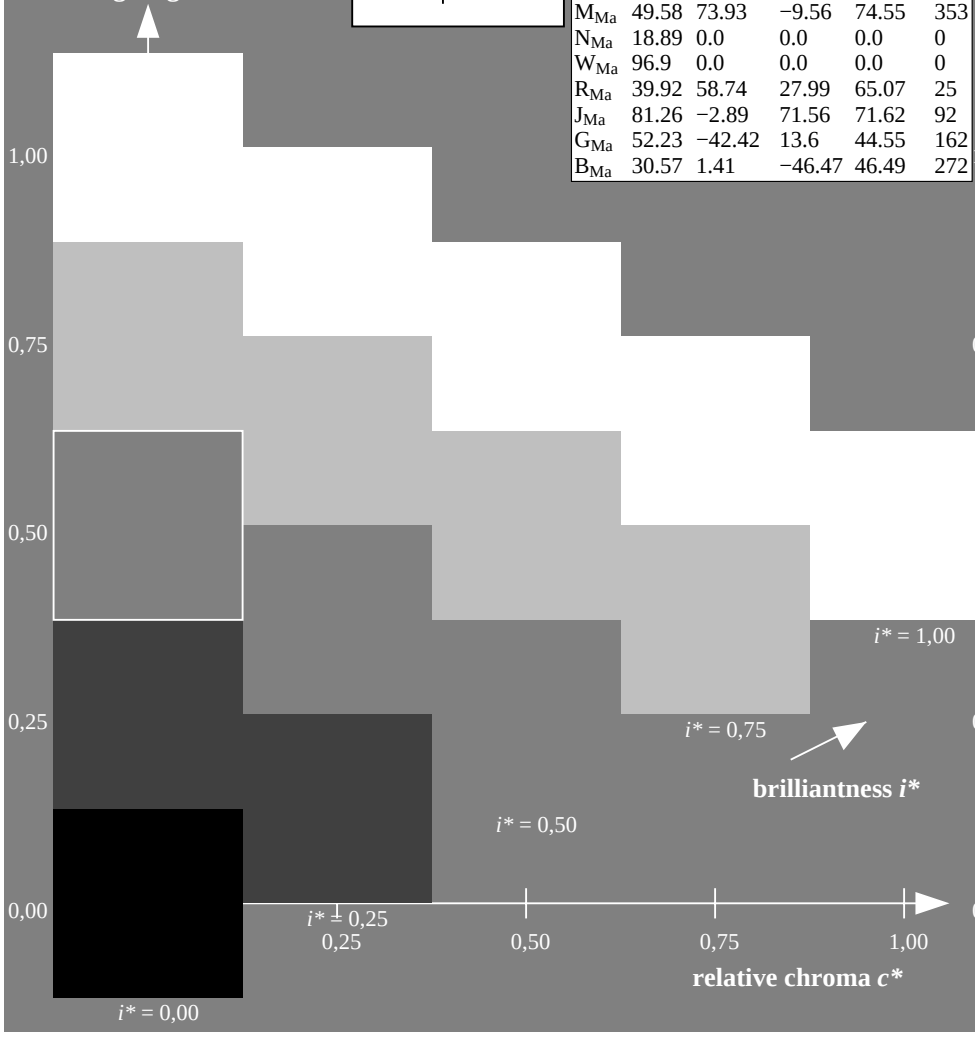
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

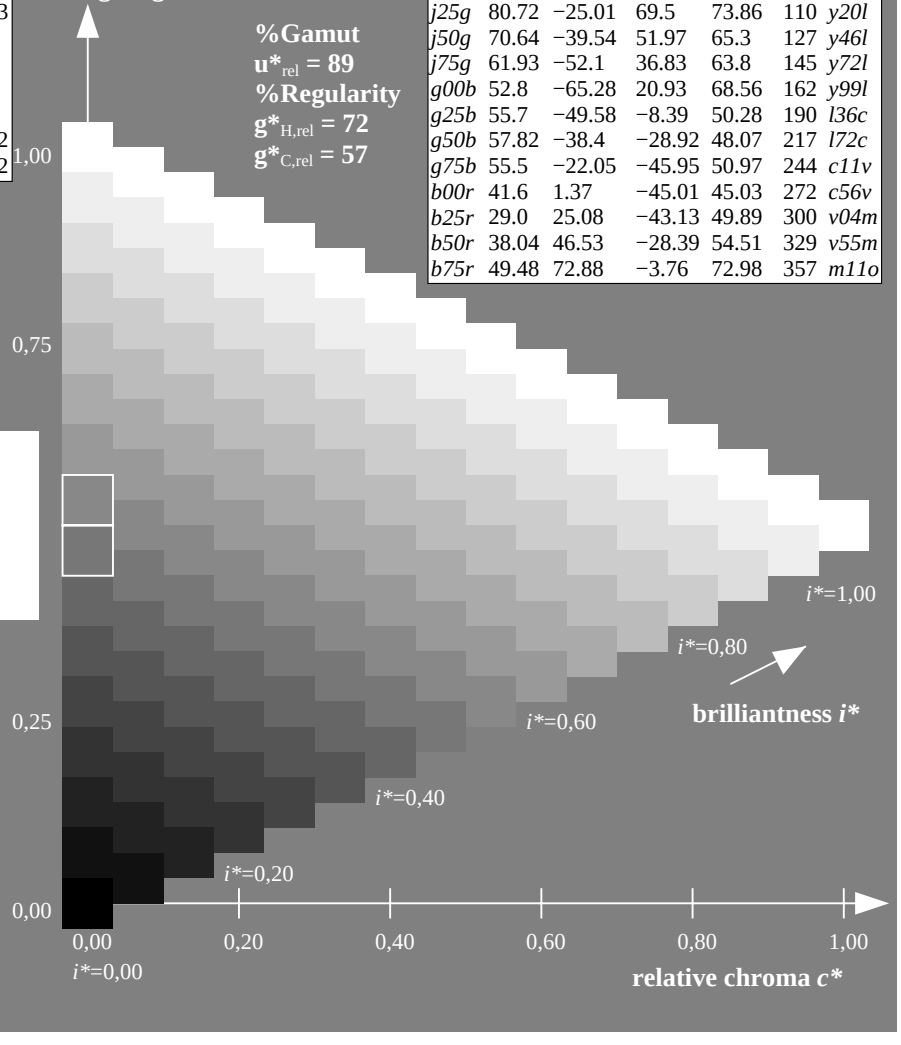
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 58 −38 −29**
LAB*LCH*$_{Ma}$**: 58 48 216**
lab*rgb*$_{Ma}$**: 0.0 1.0 1.0**
lab*olv*$_{Ma}$**: 0.0 1.0 0.72**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

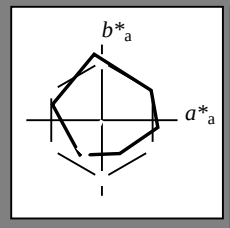
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.679** **$u^*_e = g75b$**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
$u^*_e = g75b$ $u^*_d = c11v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

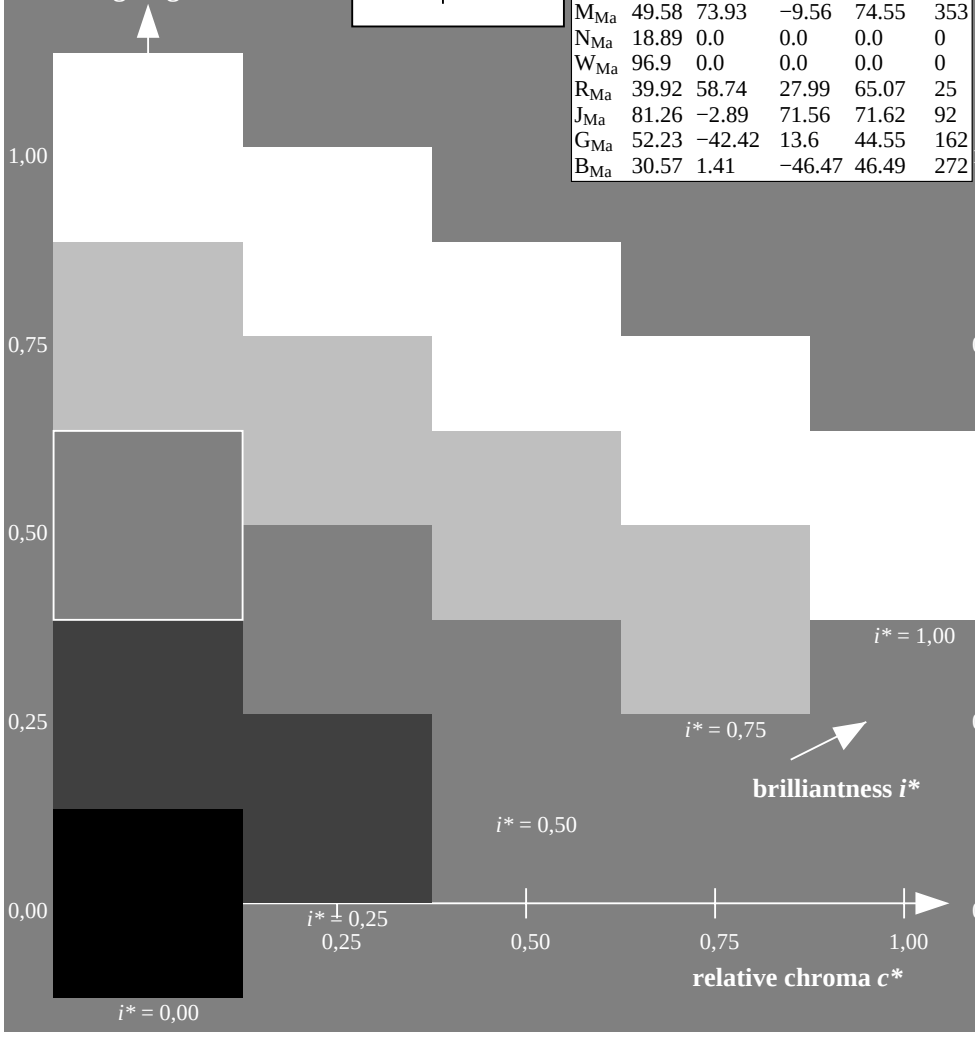
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

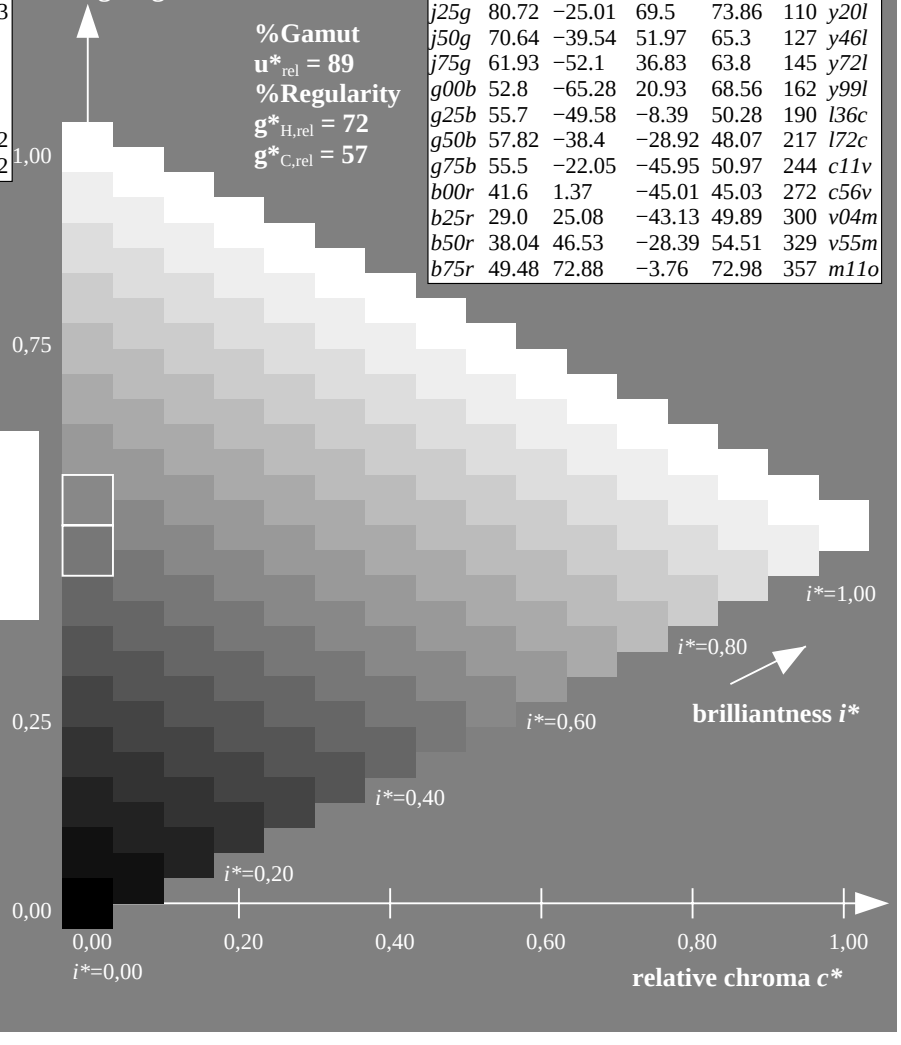
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 55 −22 −46**
LAB*LCH*$_{Ma}$**: 55 51 244**
lab*rgb*$_{Ma}$**: 0.0 0.5 1.0**
lab*olv*$_{Ma}$**: 0.0 0.89 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

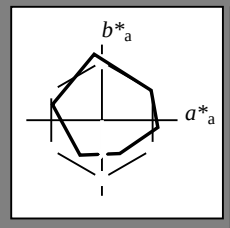
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.755** **u^*_e = *b00r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

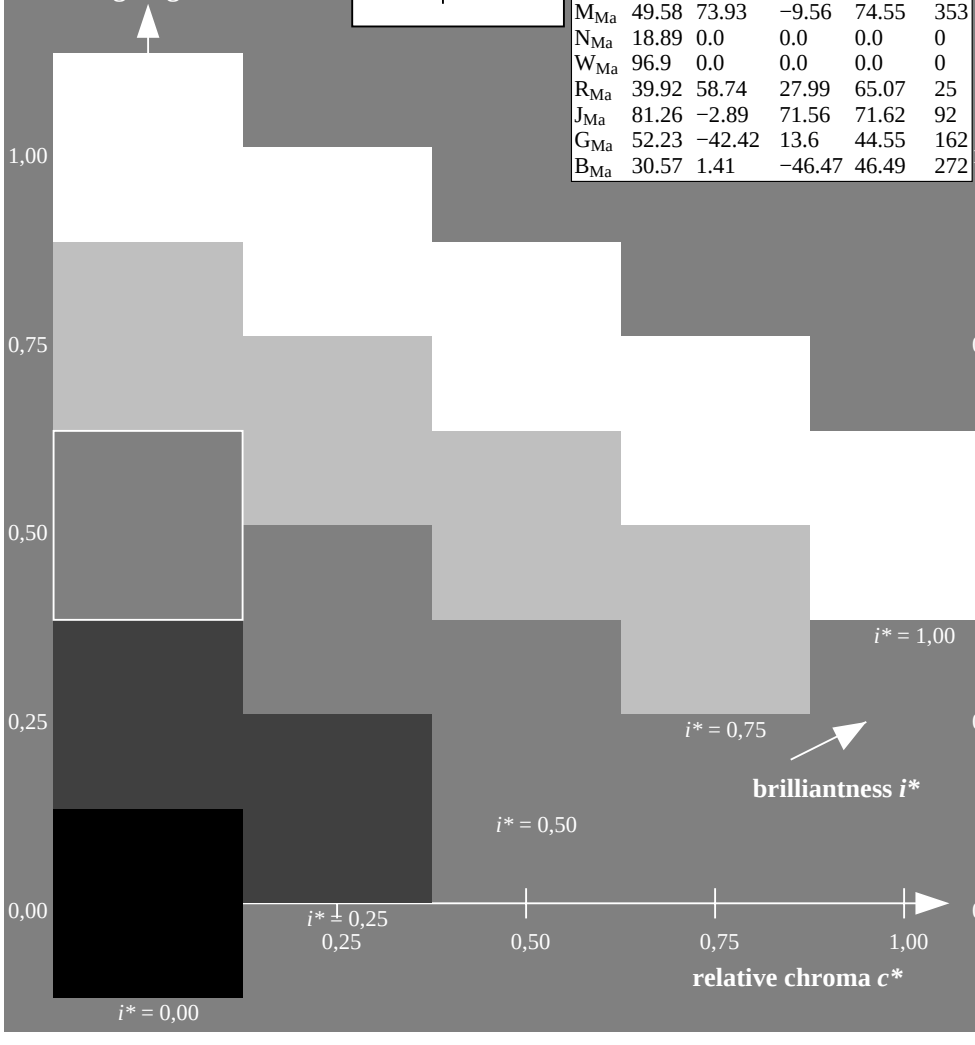
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

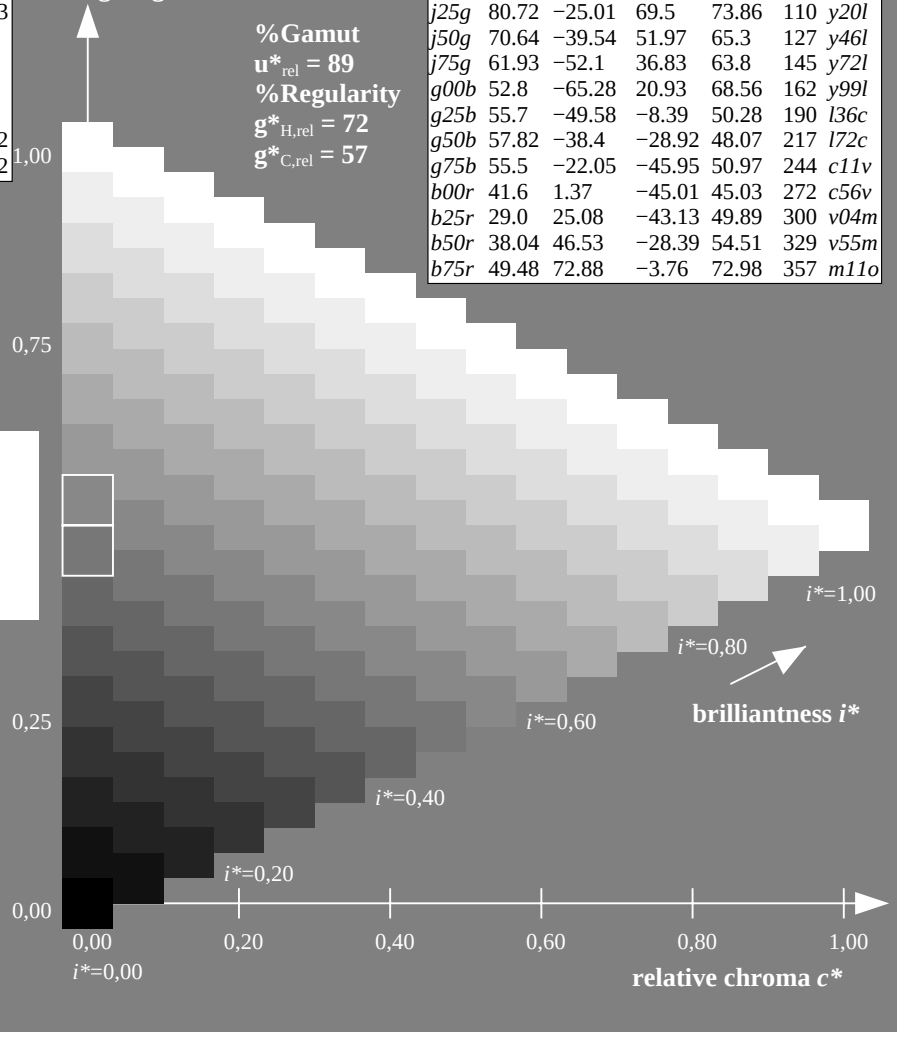
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 42 1 −45**
LAB*LCH*$_{Ma}$**: 42 45 271**
lab*rgb*$_{Ma}$**: 0.0 0.0 1.0**
lab*olv*$_{Ma}$**: 0.0 0.44 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

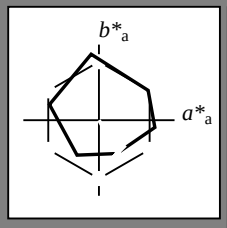
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.834** **u^*_e = *b25r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

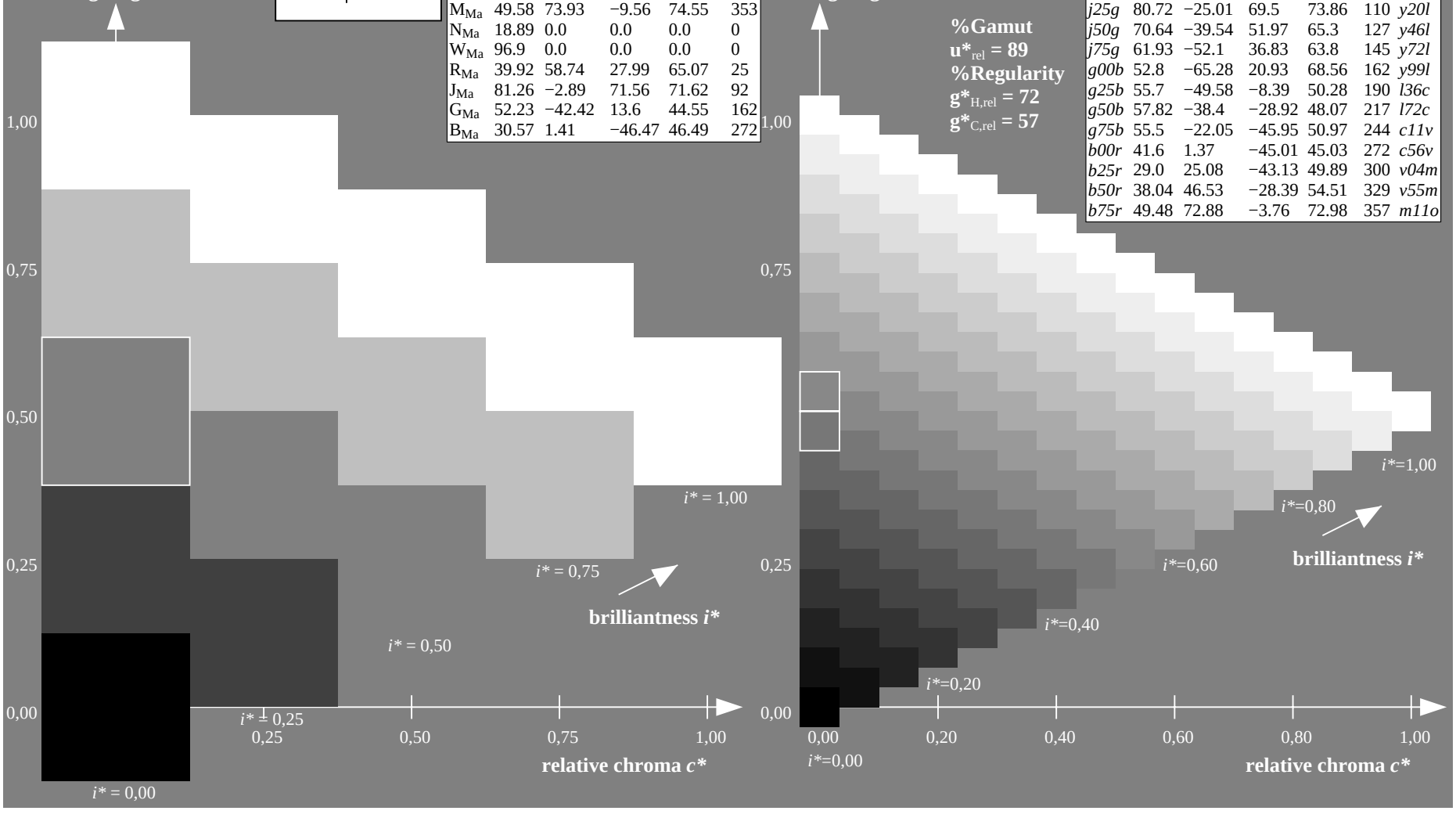
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 29 25 −43**
LAB*LCH*$_{Ma}$**: 29 50 300**
lab*rgb*$_{Ma}$**: 0.5 0.0 1.0**
lab*olv*$_{Ma}$**: 0.04 0.0 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

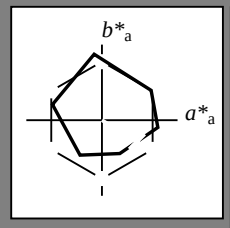
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.913** **u^*_e = *b50r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

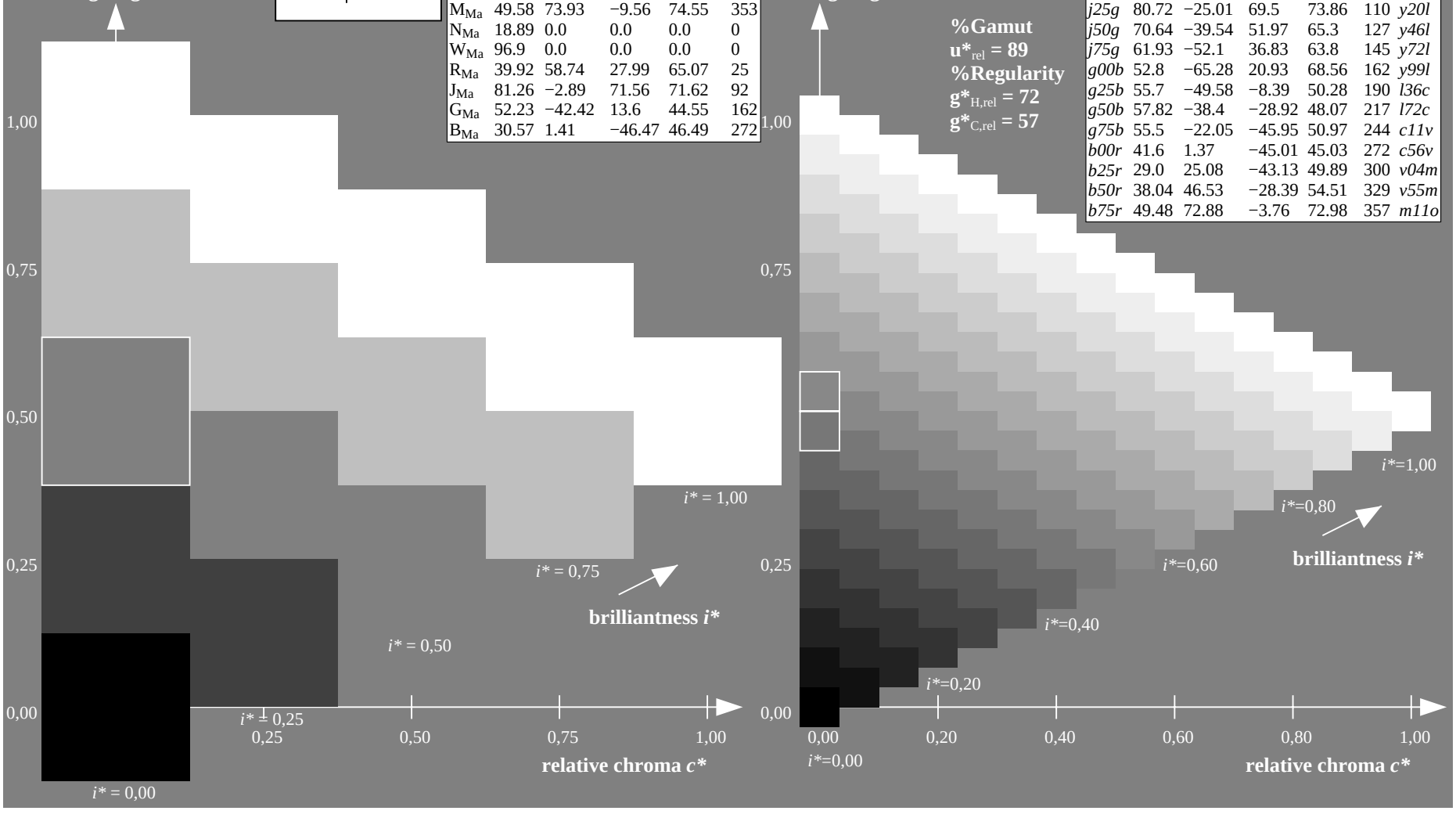
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 38 47 −28**
LAB*LCH*$_{Ma}$**: 38 55 328**
lab*rgb*$_{Ma}$**: 1.0 0.0 1.0**
lab*olv*$_{Ma}$**: 0.56 0.0 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

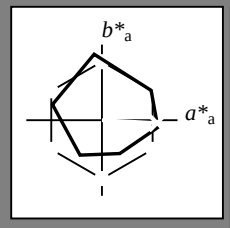
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992** **u^*_e = *b75r***

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

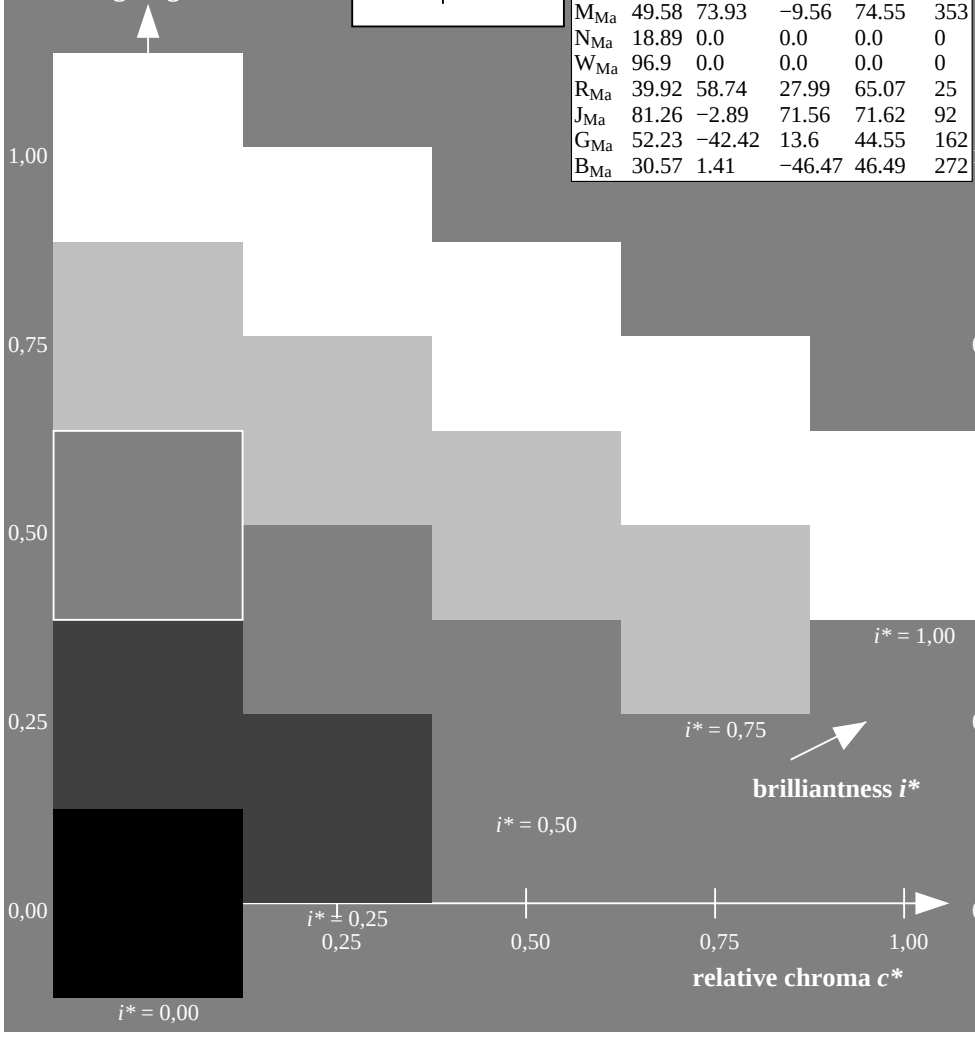
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

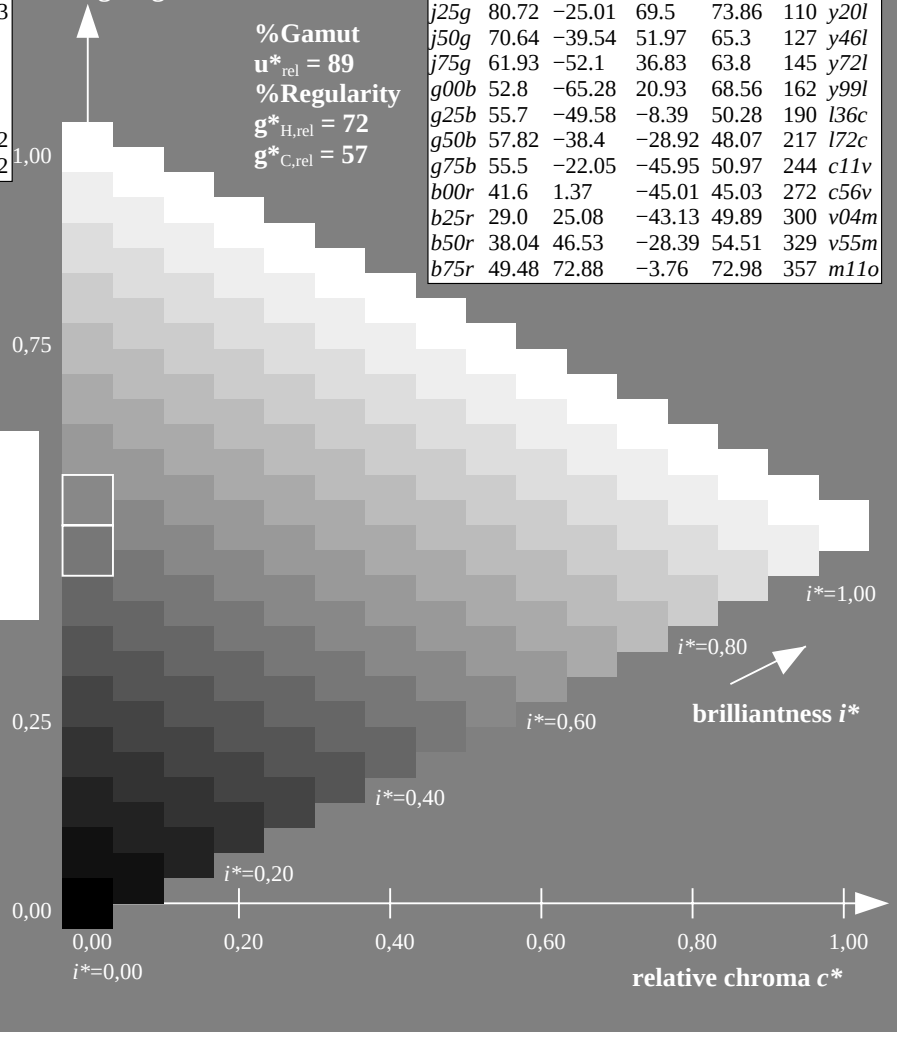
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 49 73 −4**
LAB*LCH*$_{Ma}$**: 49 73 357**
lab*rgb*$_{Ma}$**: 1.0 0.0 0.5**
lab*olv*$_{Ma}$**: 1.0 0.0 0.89**
triangle lightness *t**

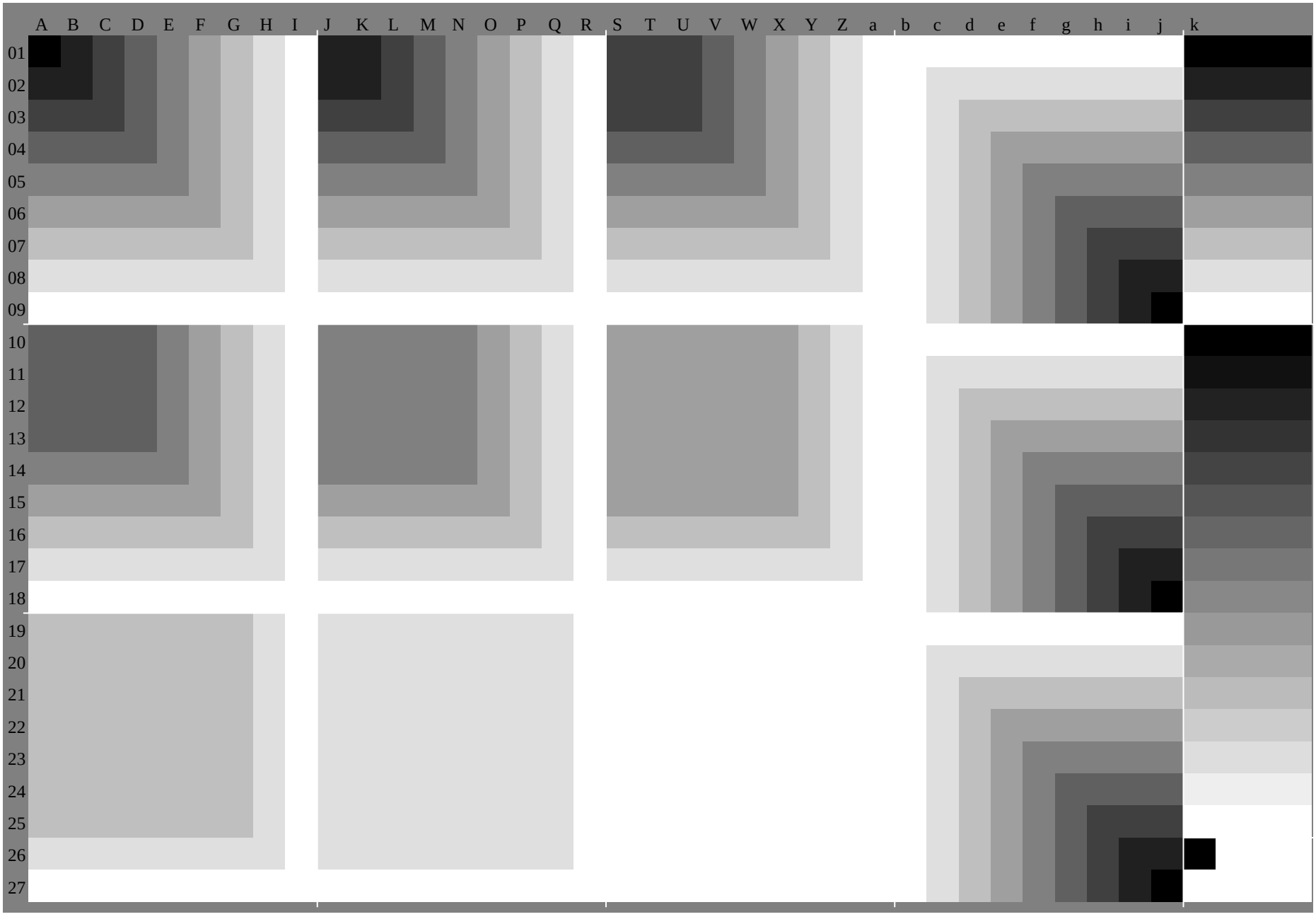
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



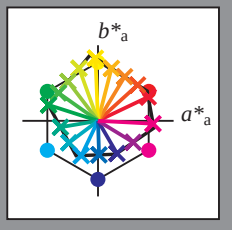




Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

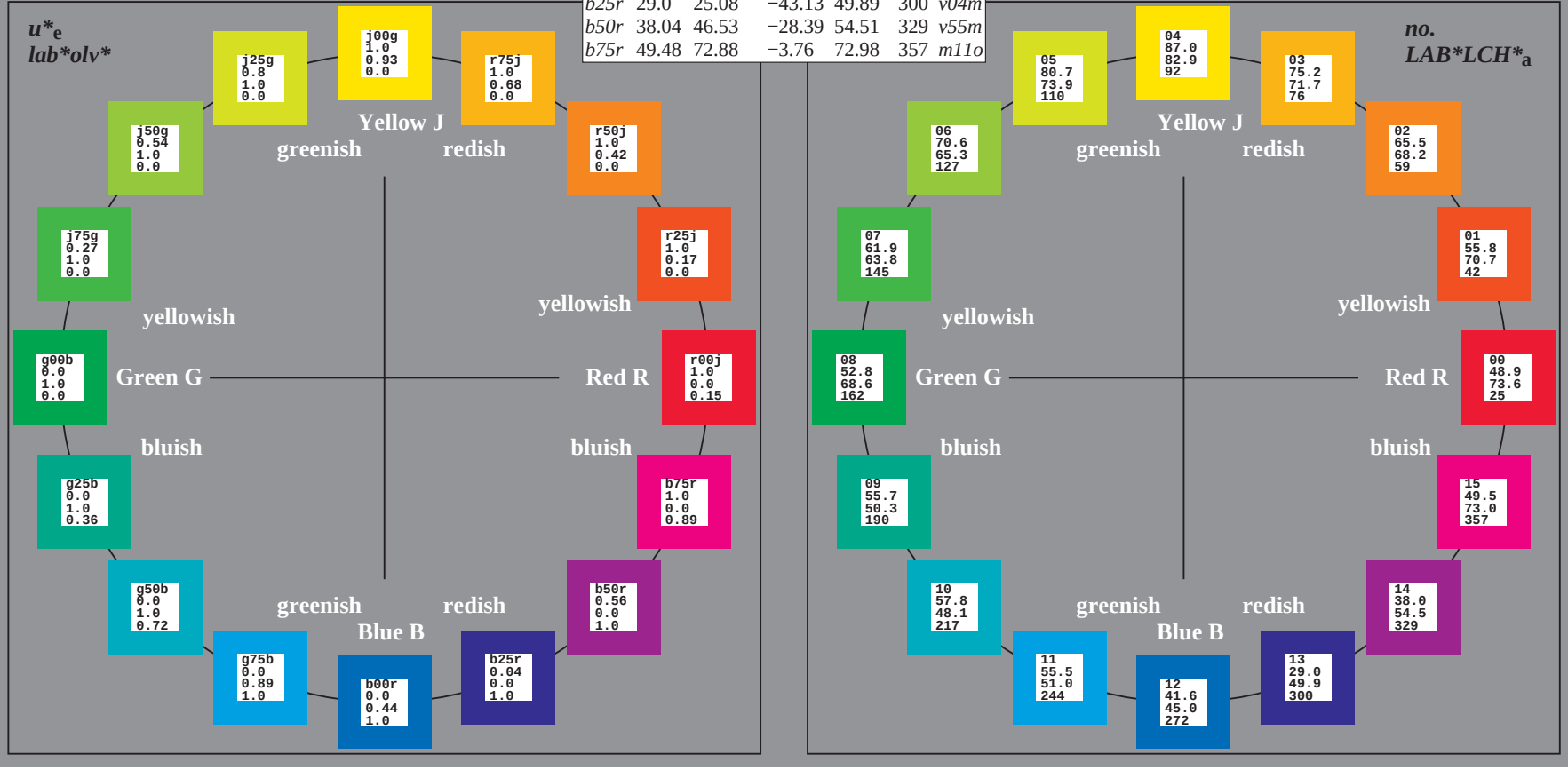
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

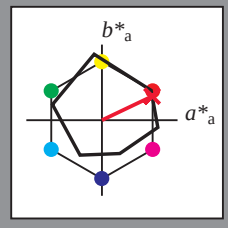
ORS19_96a; adapted (a) CIELAB data

Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

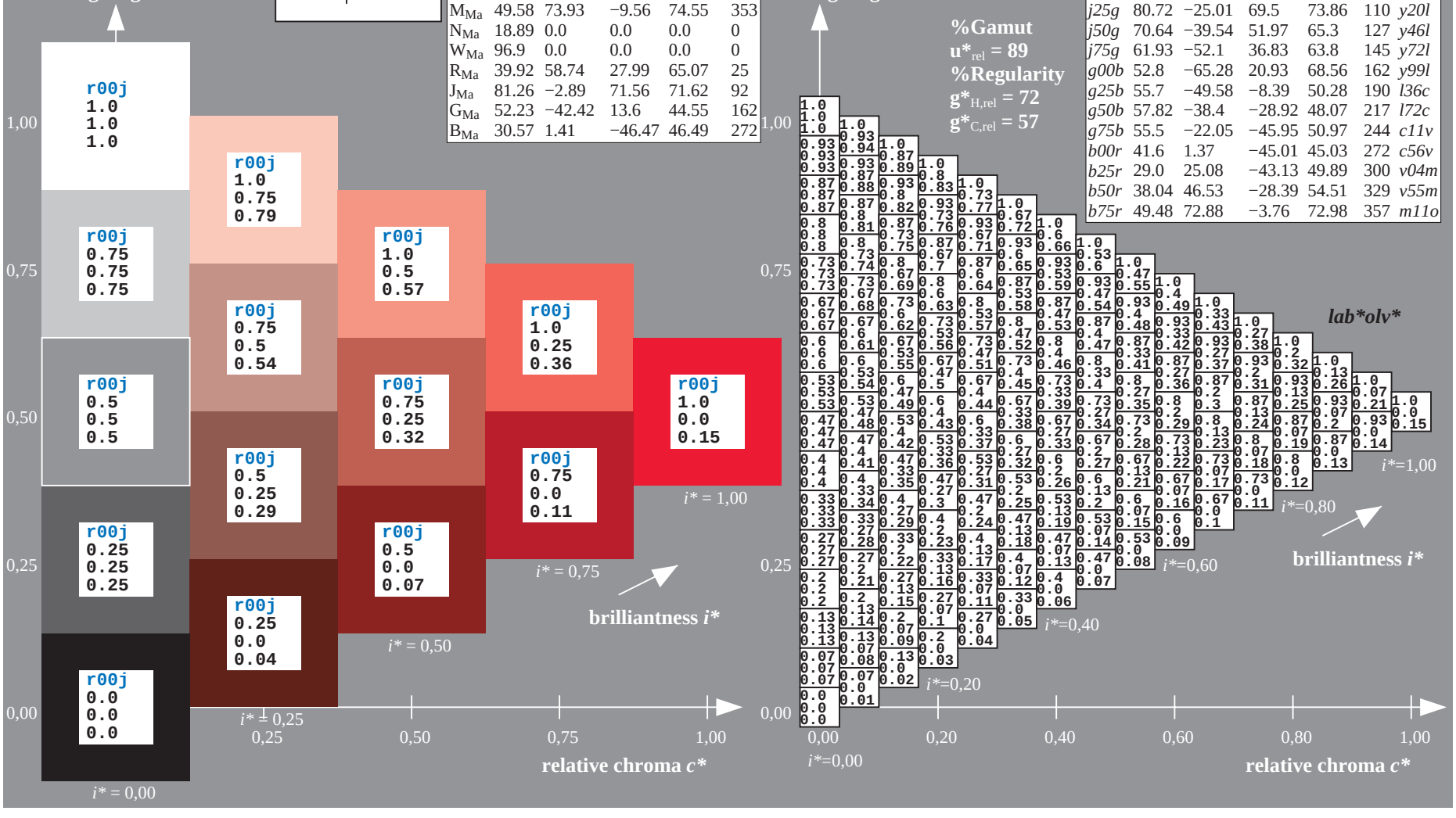
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r00j*
*lab*olv**

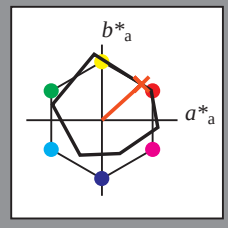
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

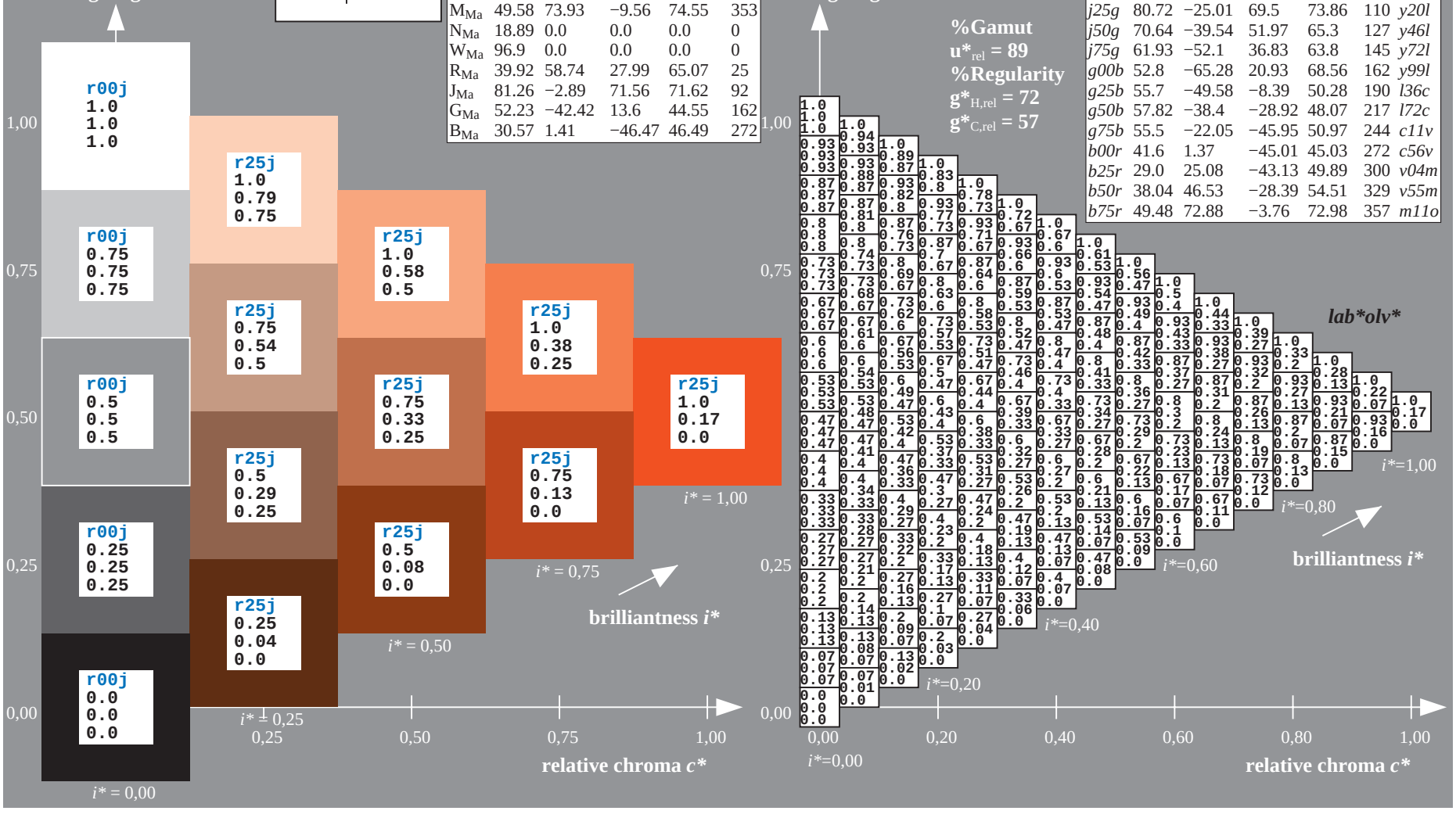
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r25j*
*lab*olv**

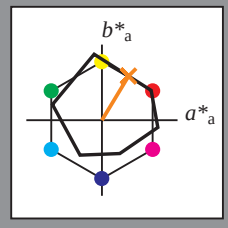
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

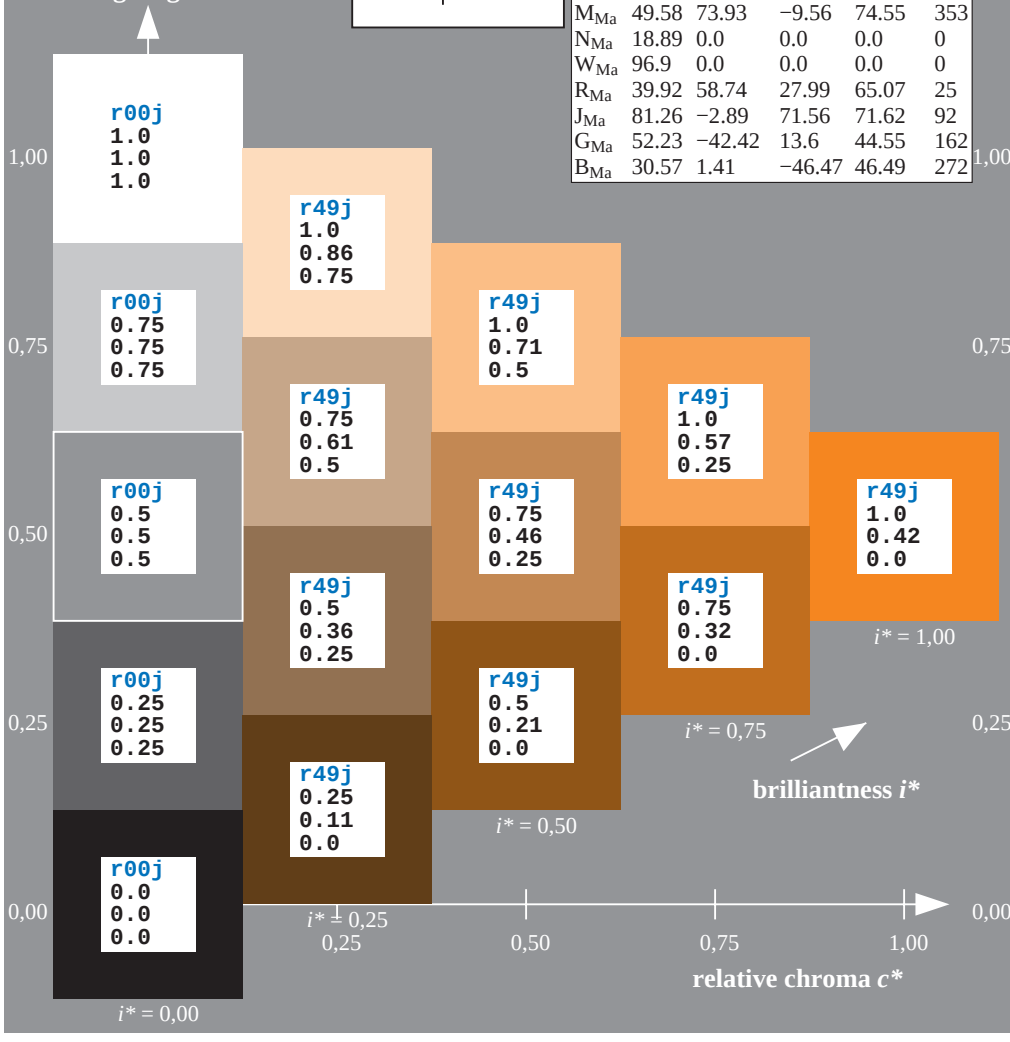
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

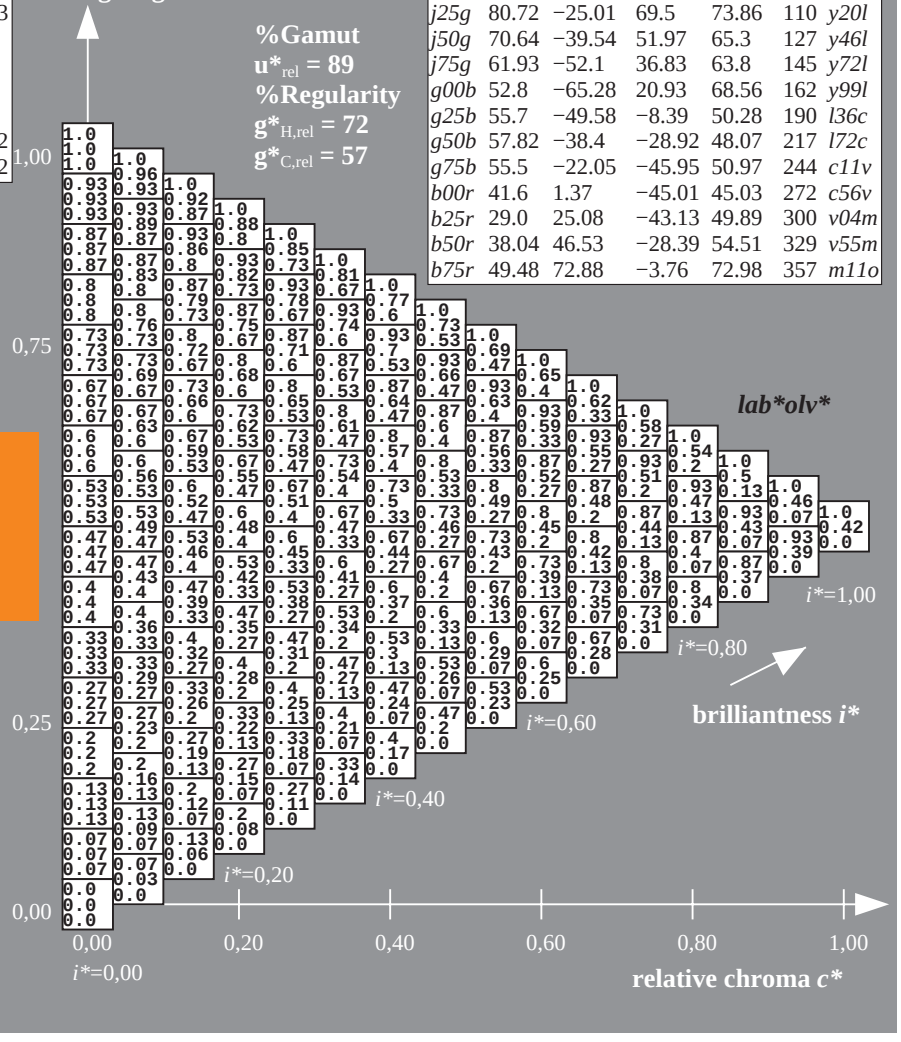
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

u^*_e = *r50j*
*lab*olv**

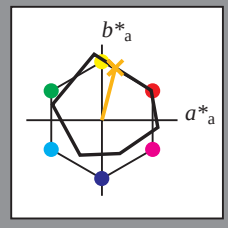
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

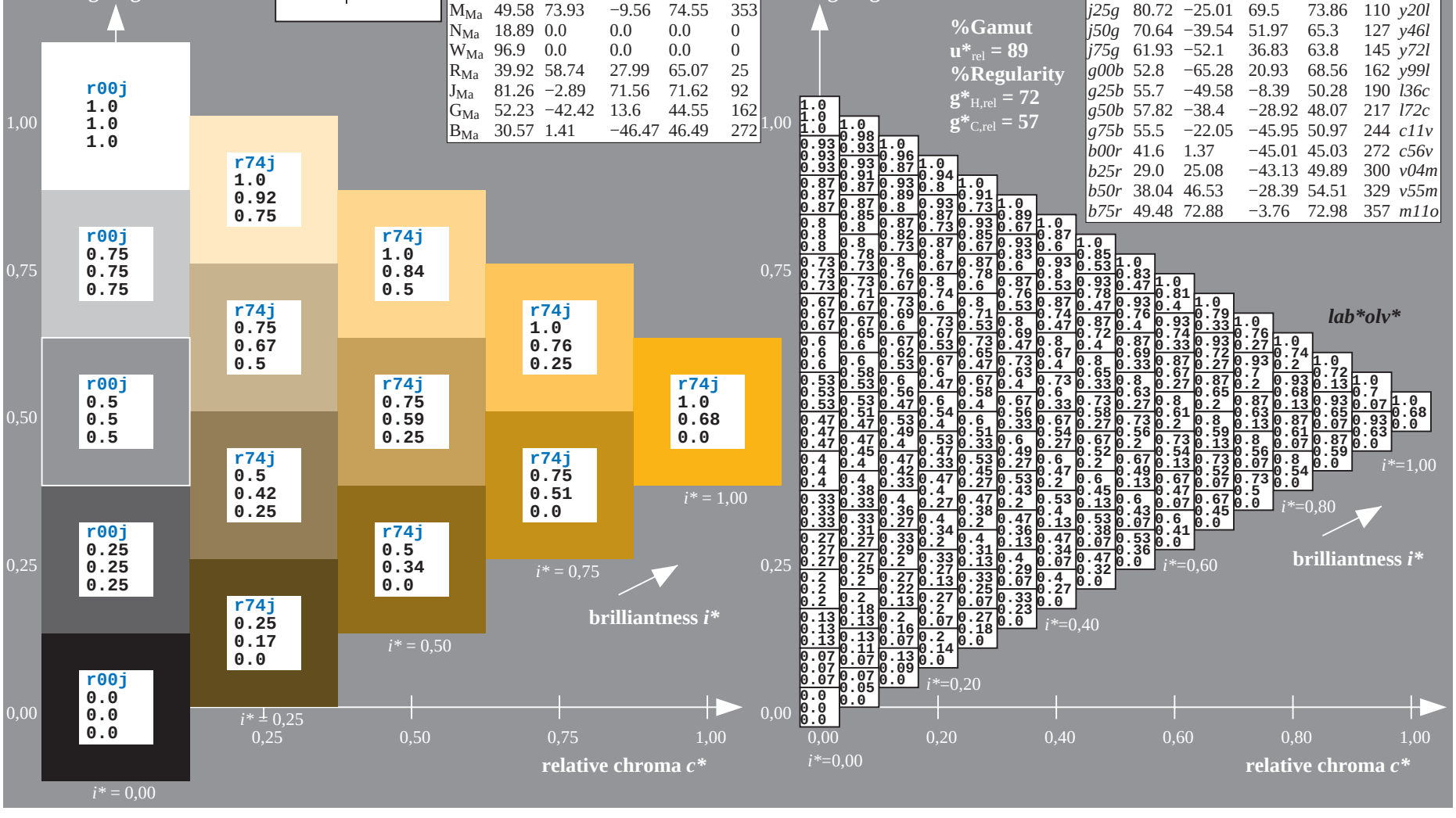
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 75 18 69**
LAB*LCH*$_{Ma}$**: 75 72 75**
lab*rgb*$_{Ma}$**: 1.0 0.75 0.0**
lab*olv*$_{Ma}$**: 1.0 0.68 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r75j*
lab*olv*

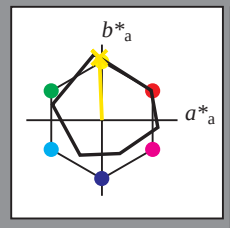
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = $h_{ab}/360$ = 0.256**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

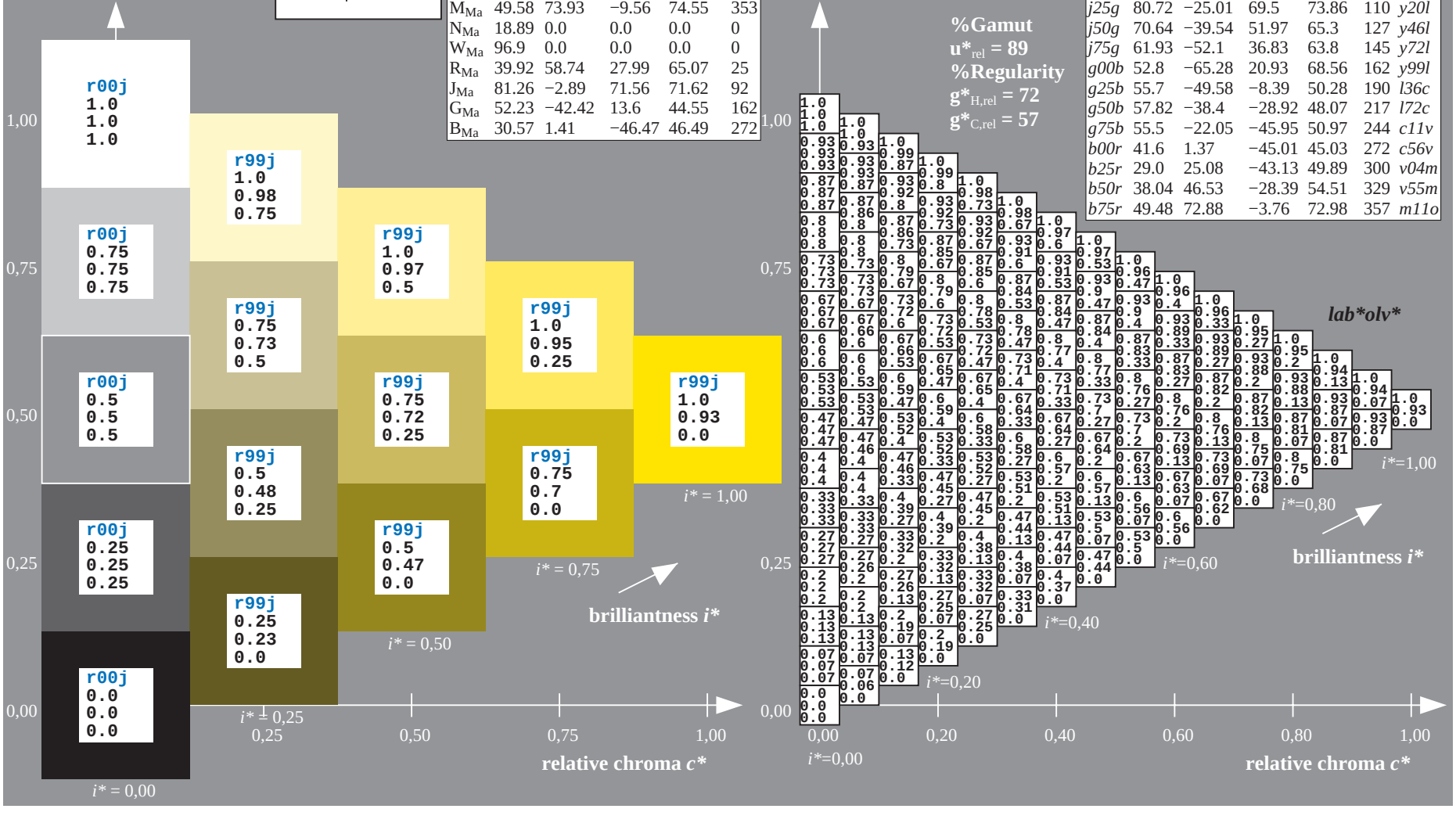
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *j00g*
*lab*olv**

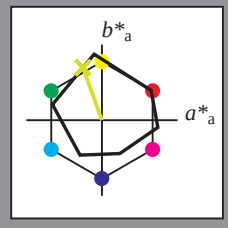
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.305**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

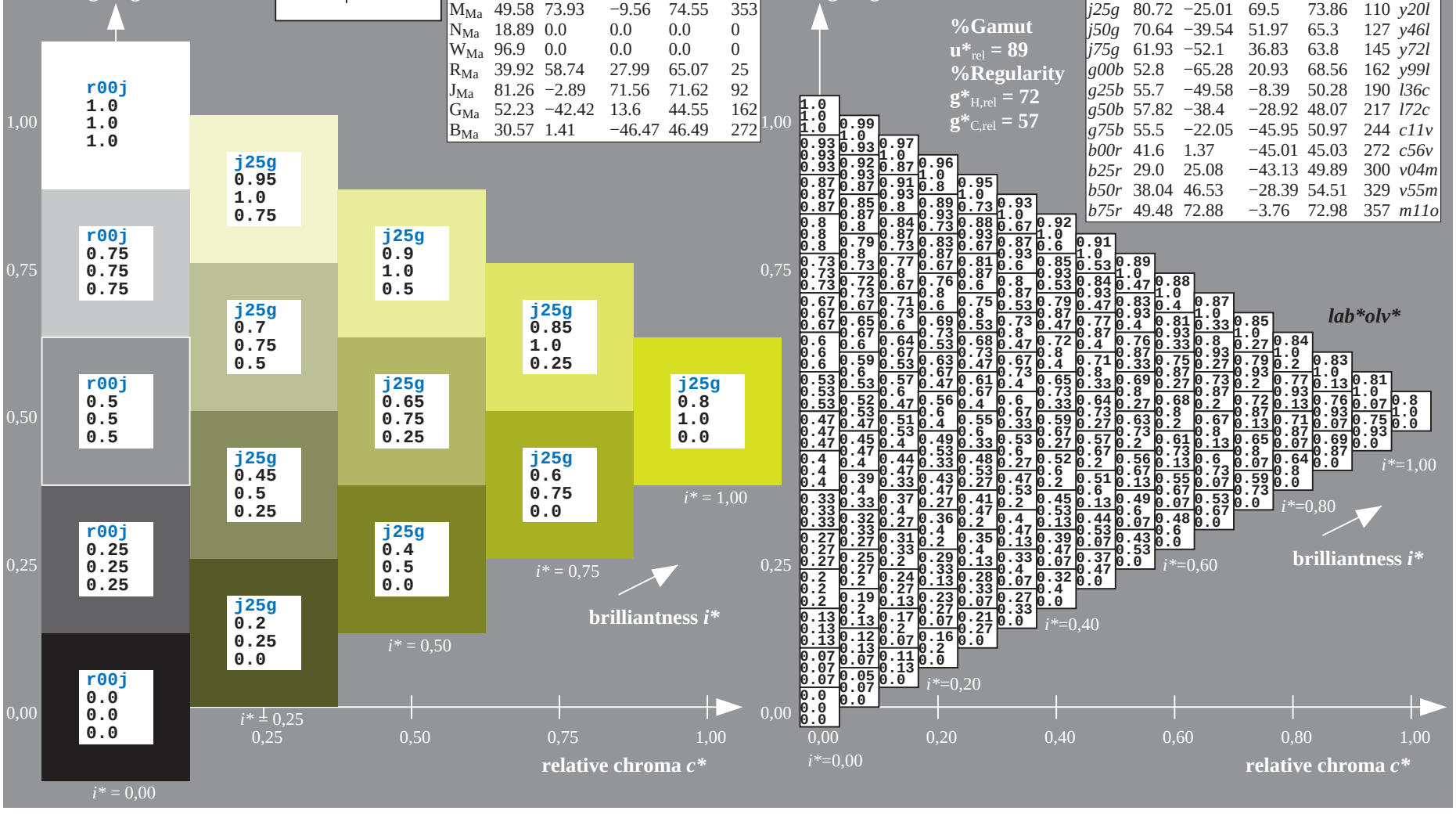
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *j25g*
*lab*olv**

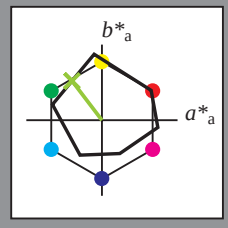
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

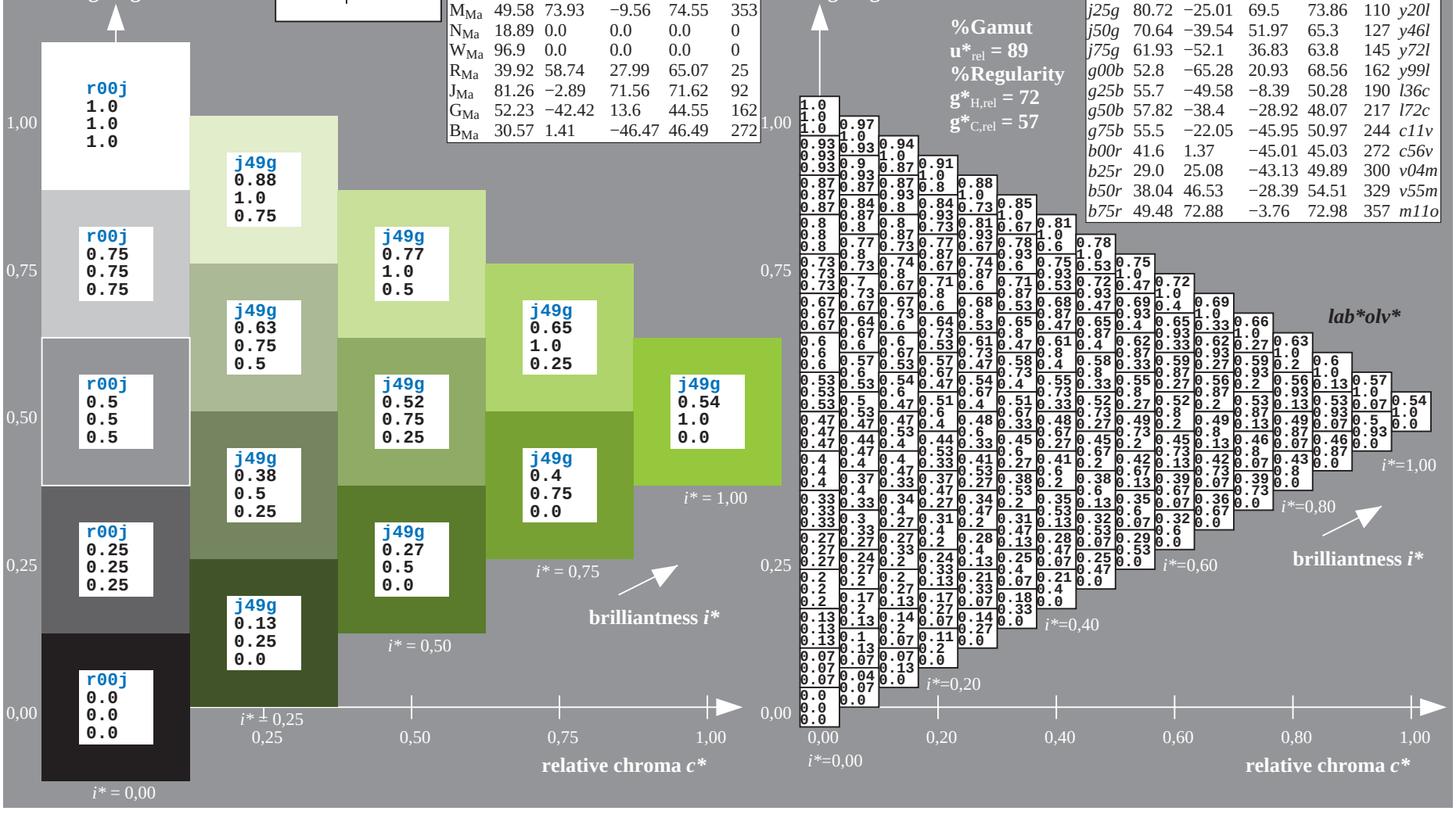
	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 71 −40 52
$LAB^*LCH^*_{Ma}$: 71 65 127
$lab^*rgb^*_{Ma}$: 0.5 1.0 0.0
$lab^*olv^*_{Ma}$: 0.54 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

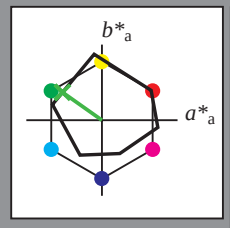
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

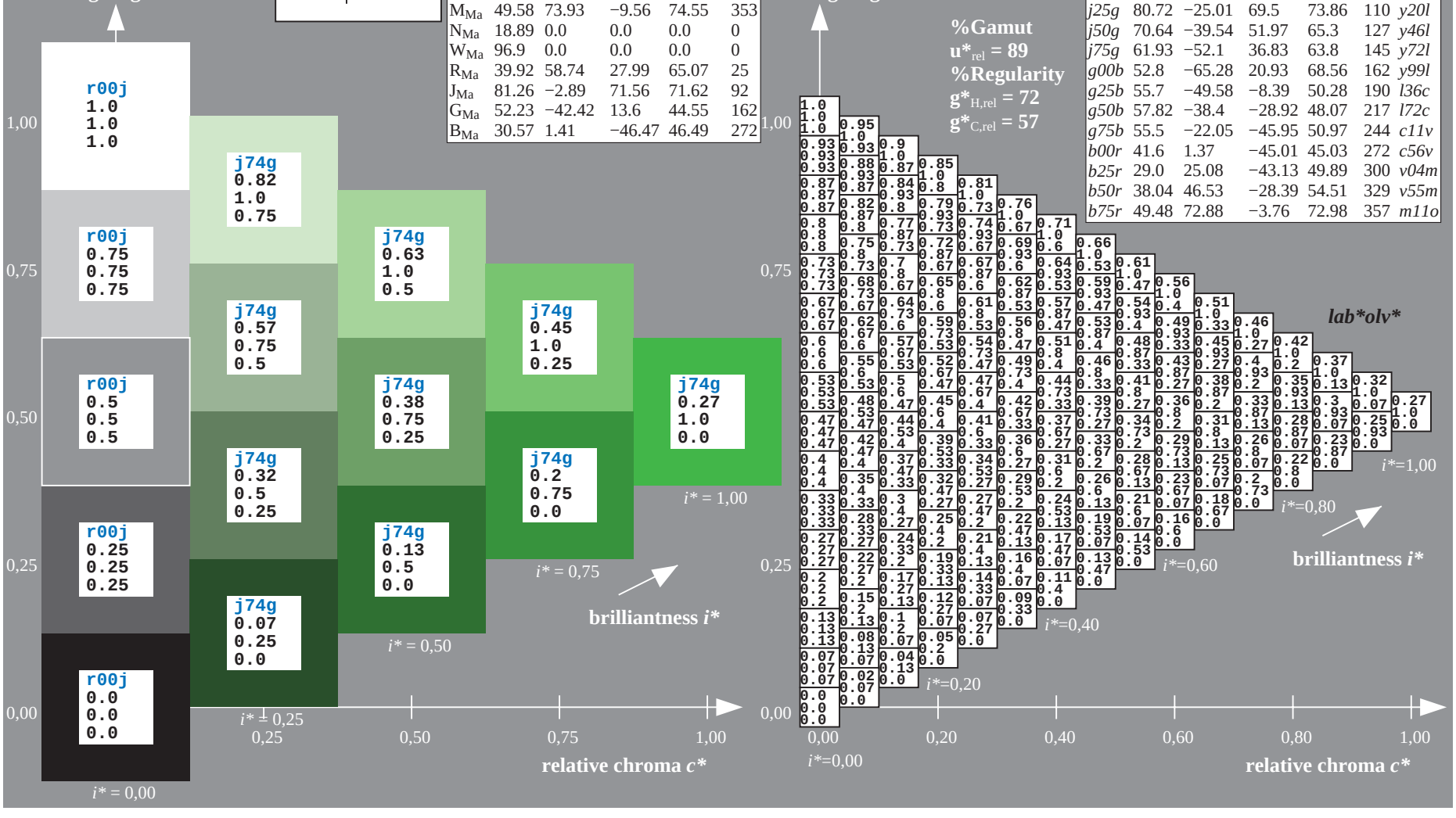
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 62 −52 37
$LAB^*LCH^*_{Ma}$: 62 64 144
$lab^*rgb^*_{Ma}$: 0.25 1.0 0.0
$lab^*olv^*_{Ma}$: 0.27 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *j75g*
*lab*olv**

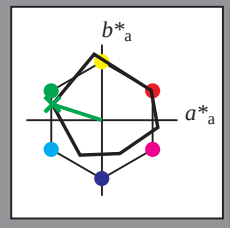
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g00b* u^*_d = *y99l*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

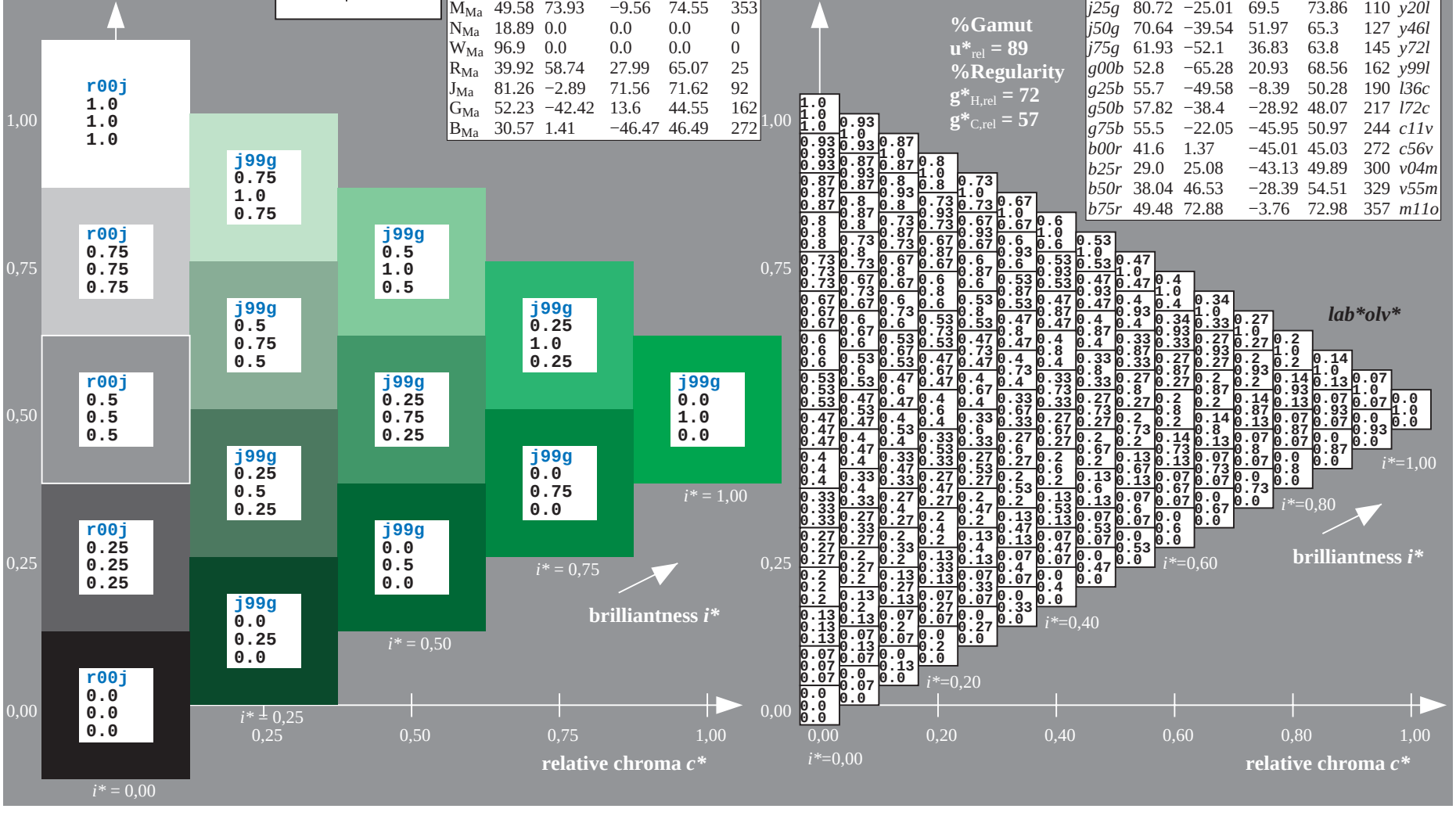
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −65 21
*LAB*LCH**$_{Ma}$: 53 69 162
*lab*rgb**$_{Ma}$: 0.0 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

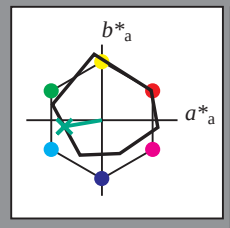
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

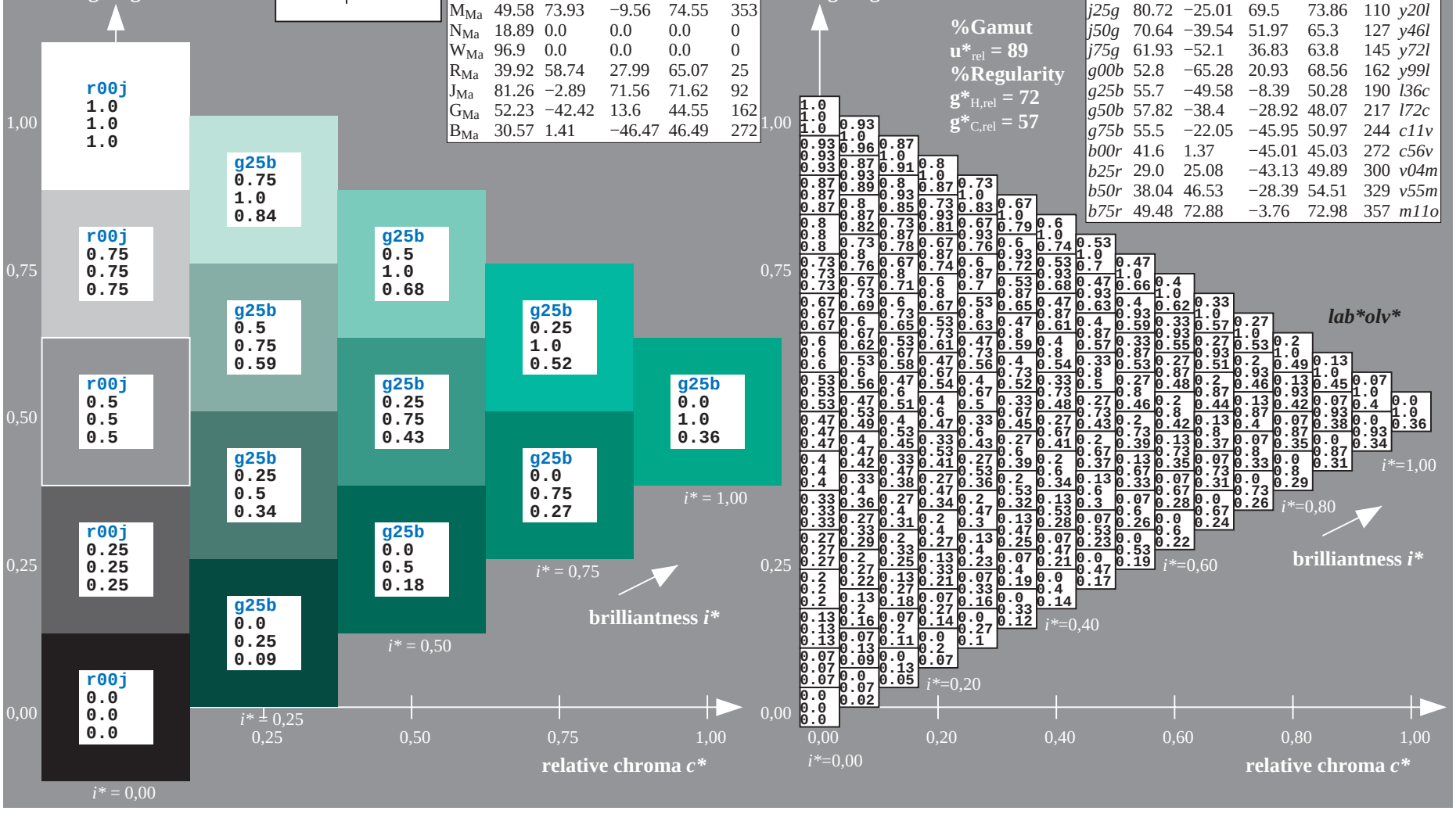
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 56 −50 −8
$LAB^*LCH^*_{Ma}$: 56 50 189
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*olv^*_{Ma}$: 0.0 1.0 0.36
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

$u^*_e = g25b$
lab^*olv^*

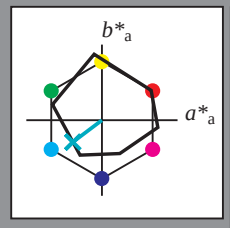
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g50b* u^*_d = *l72c*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

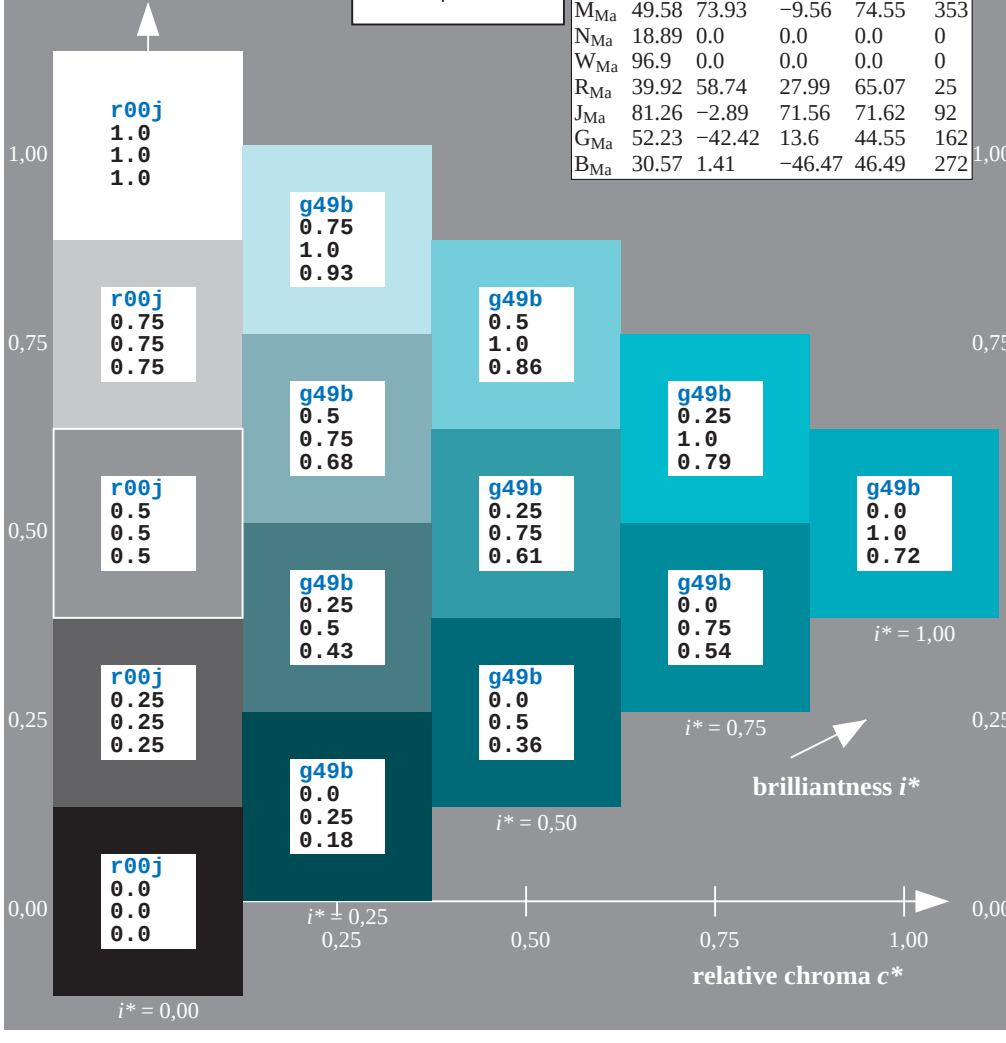
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 58 −38 −29
$LAB^*LCH^*_{Ma}$: 58 48 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.72
triangle lightness *t**

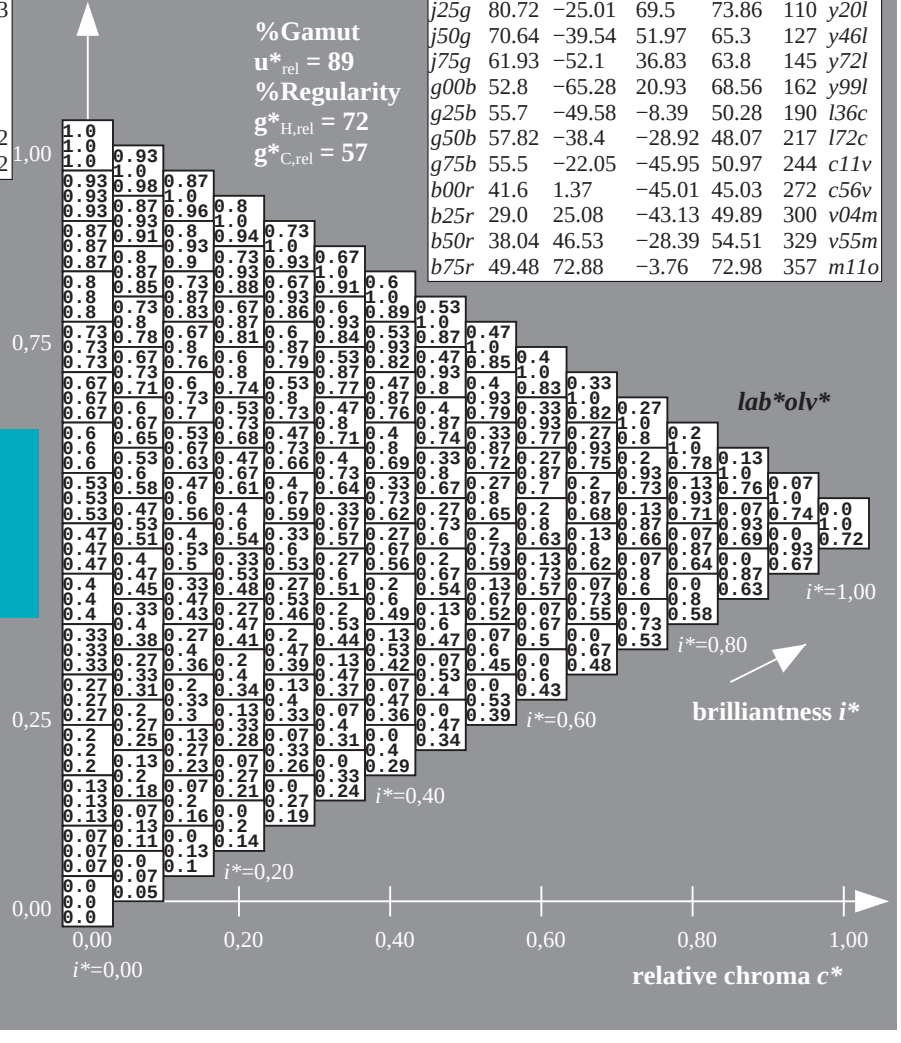
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g50b*
*lab*olv**

ORS19_96a; adapted (a) CIELAB data

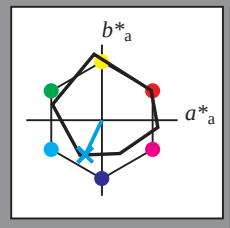
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = g75b$ $u^*_d = c11v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

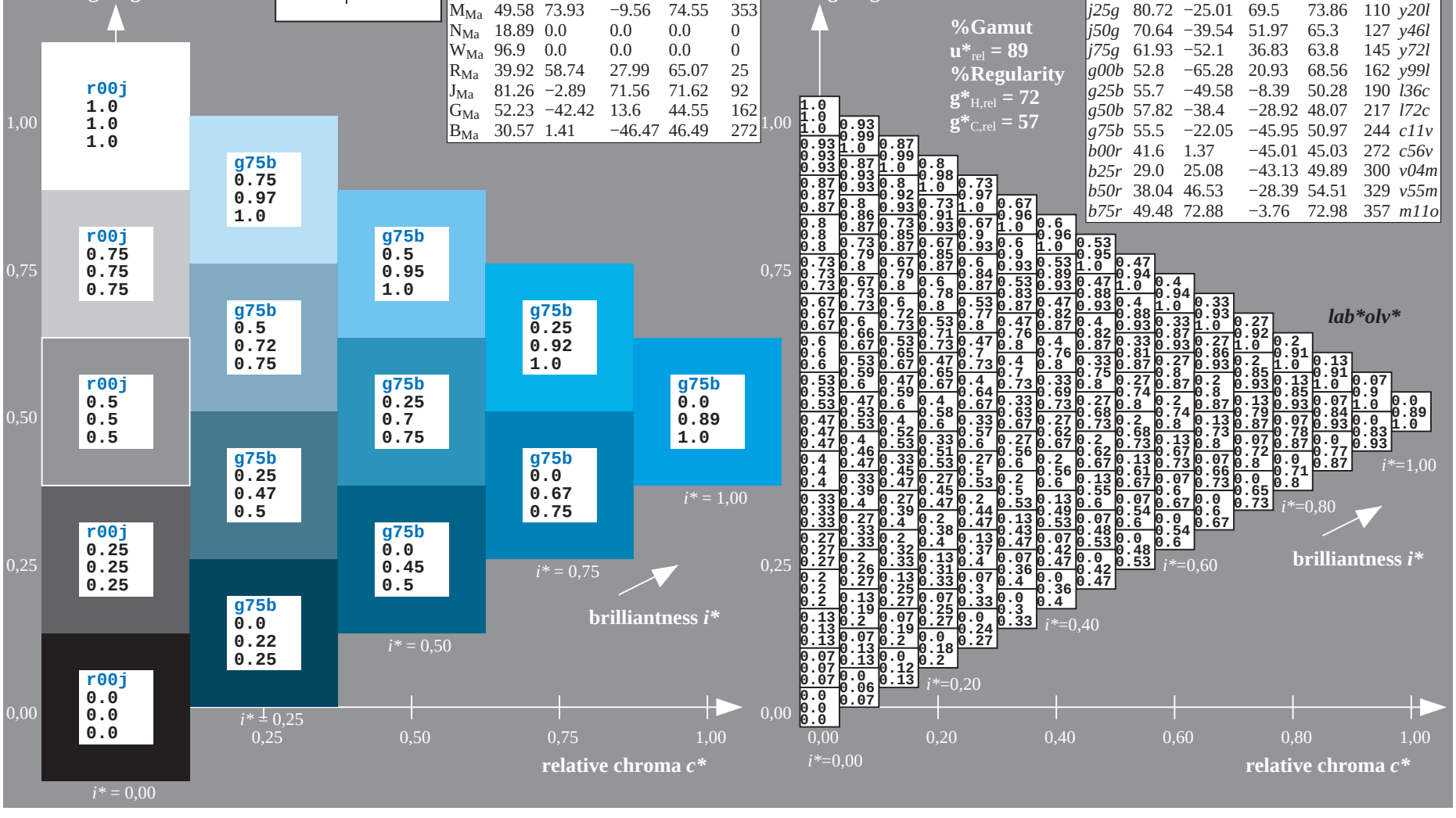
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 55 −22 −46
$LAB^*LCH^*_{Ma}$: 55 51 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = g75b$
lab^*olv^*

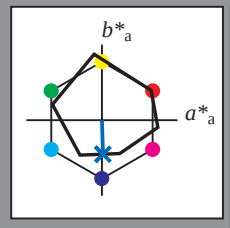
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

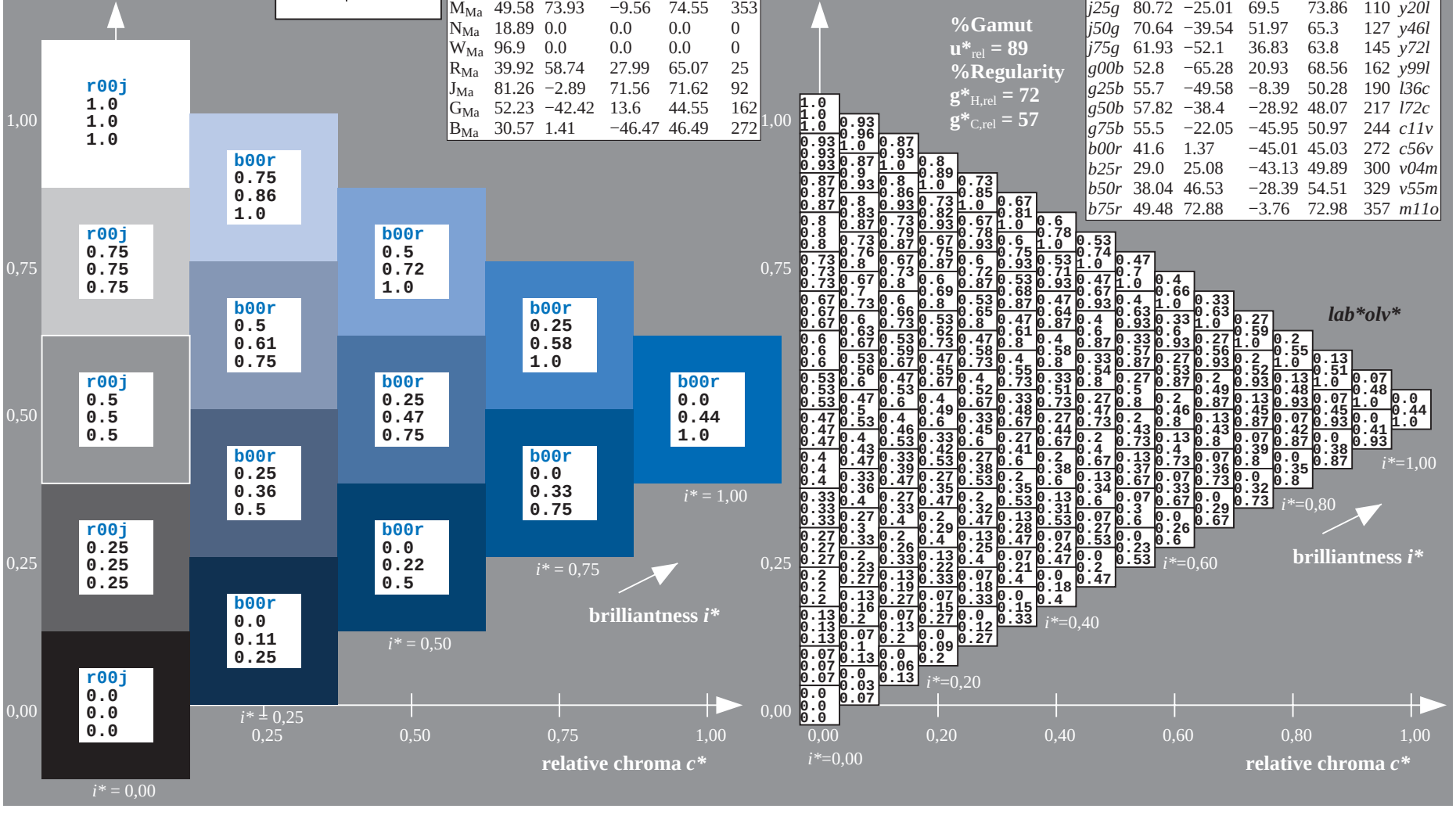
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 1 −45
*LAB*LCH**$_{Ma}$: 42 45 271
*lab*rgb**$_{Ma}$: 0.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.0 0.44 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b00r*
*lab*olv**

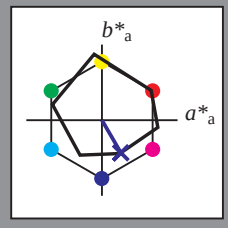
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

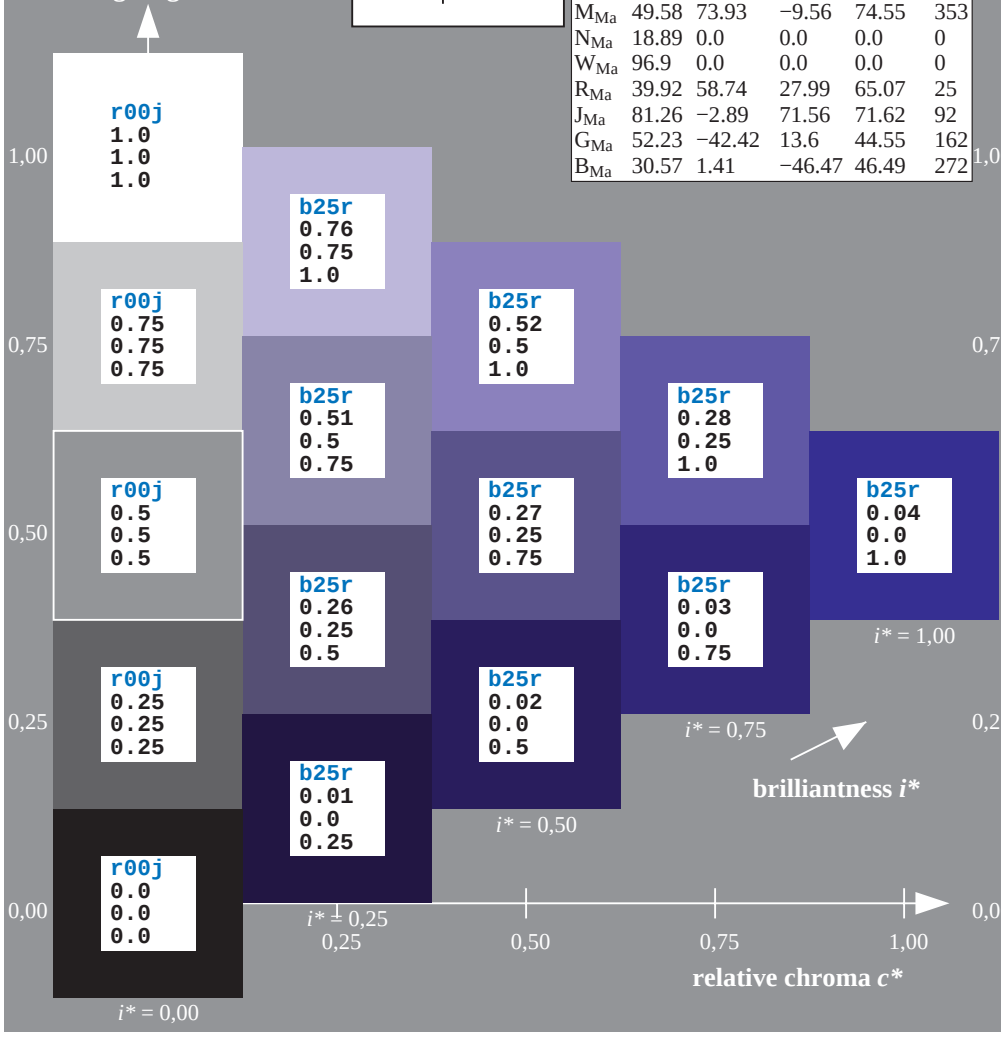
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 29 25 −43
*LAB*LCH**$_{Ma}$: 29 50 300
*lab*rgb**$_{Ma}$: 0.5 0.0 1.0
*lab*olv**$_{Ma}$: 0.04 0.0 1.0
triangle lightness *t**

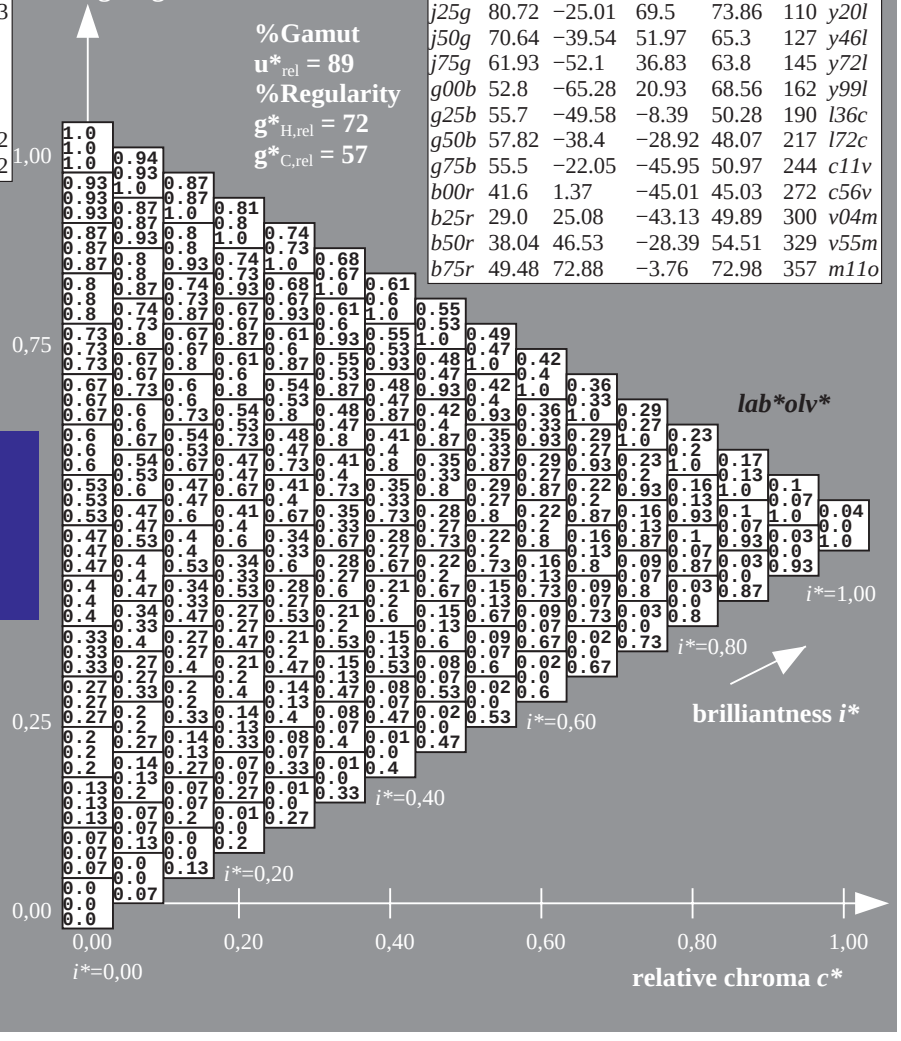
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b25r*
*lab*olv**

ORS19_96a; adapted (a) CIELAB data

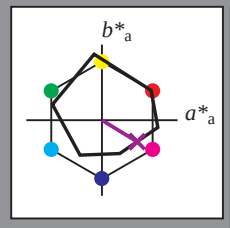
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.913**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

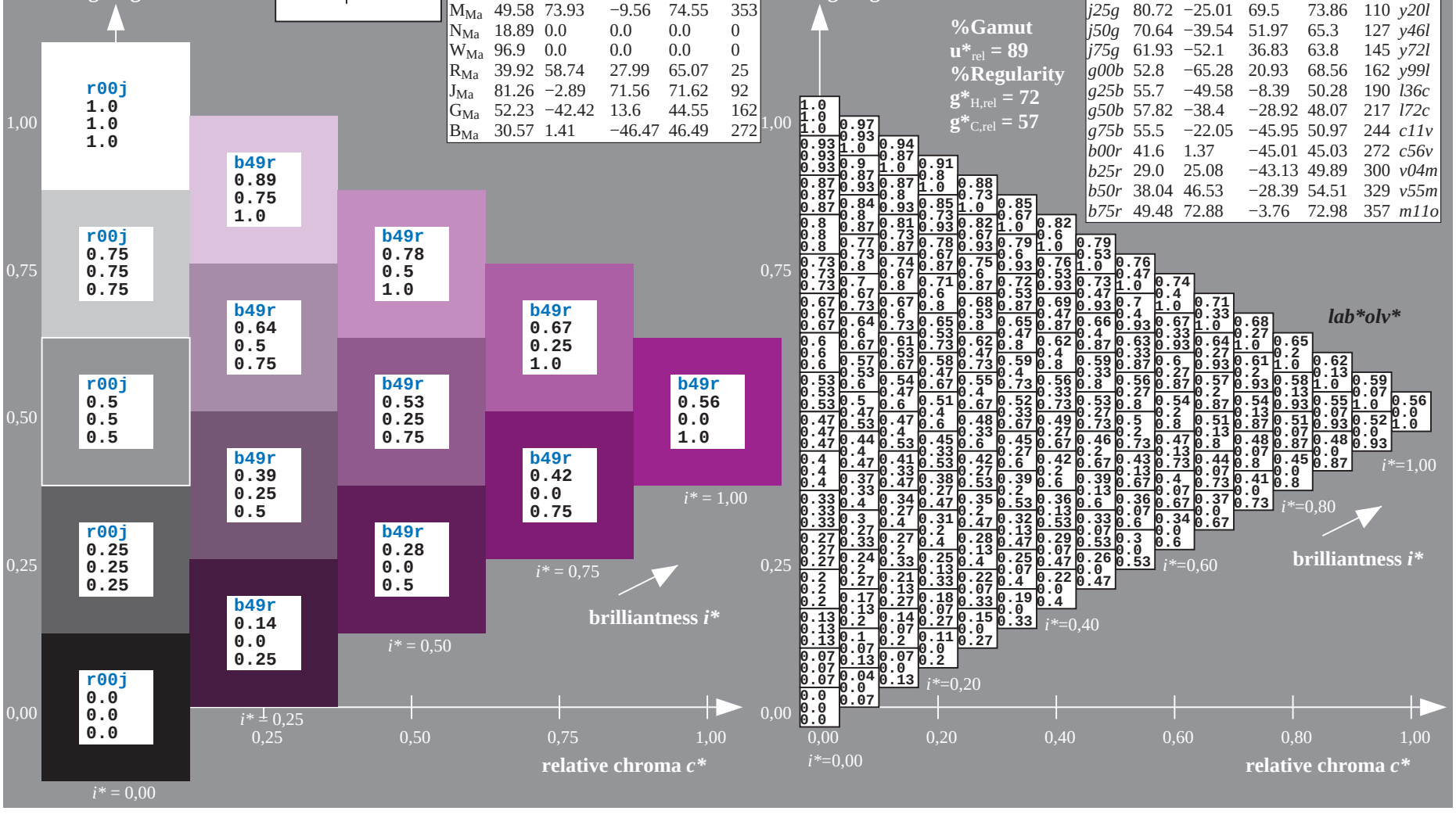
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 47 −28
*LAB*LCH**$_{Ma}$: 38 55 328
*lab*rgb**$_{Ma}$: 1.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.56 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b50r*
*lab*olv**

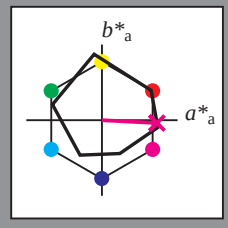
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

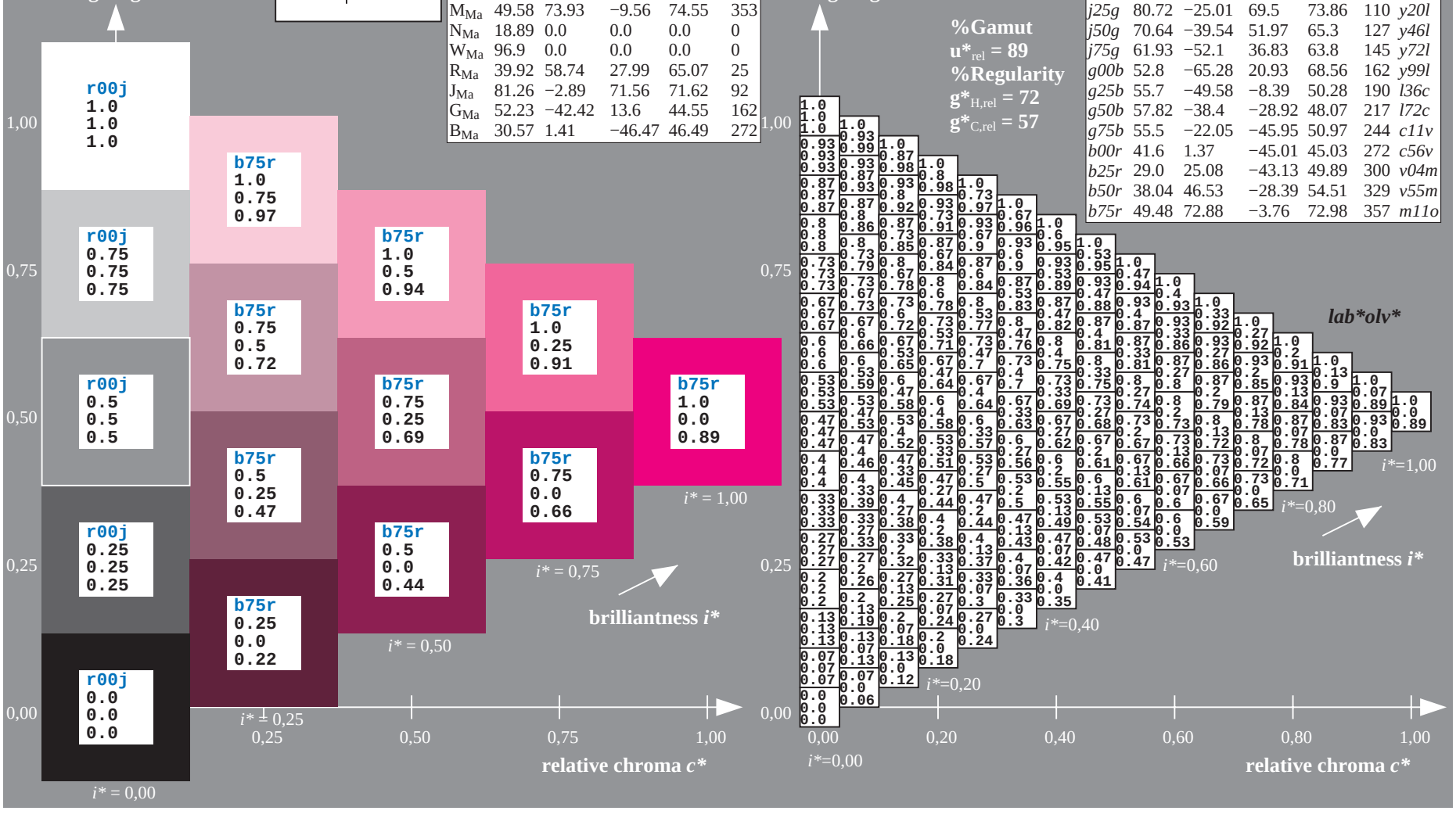
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

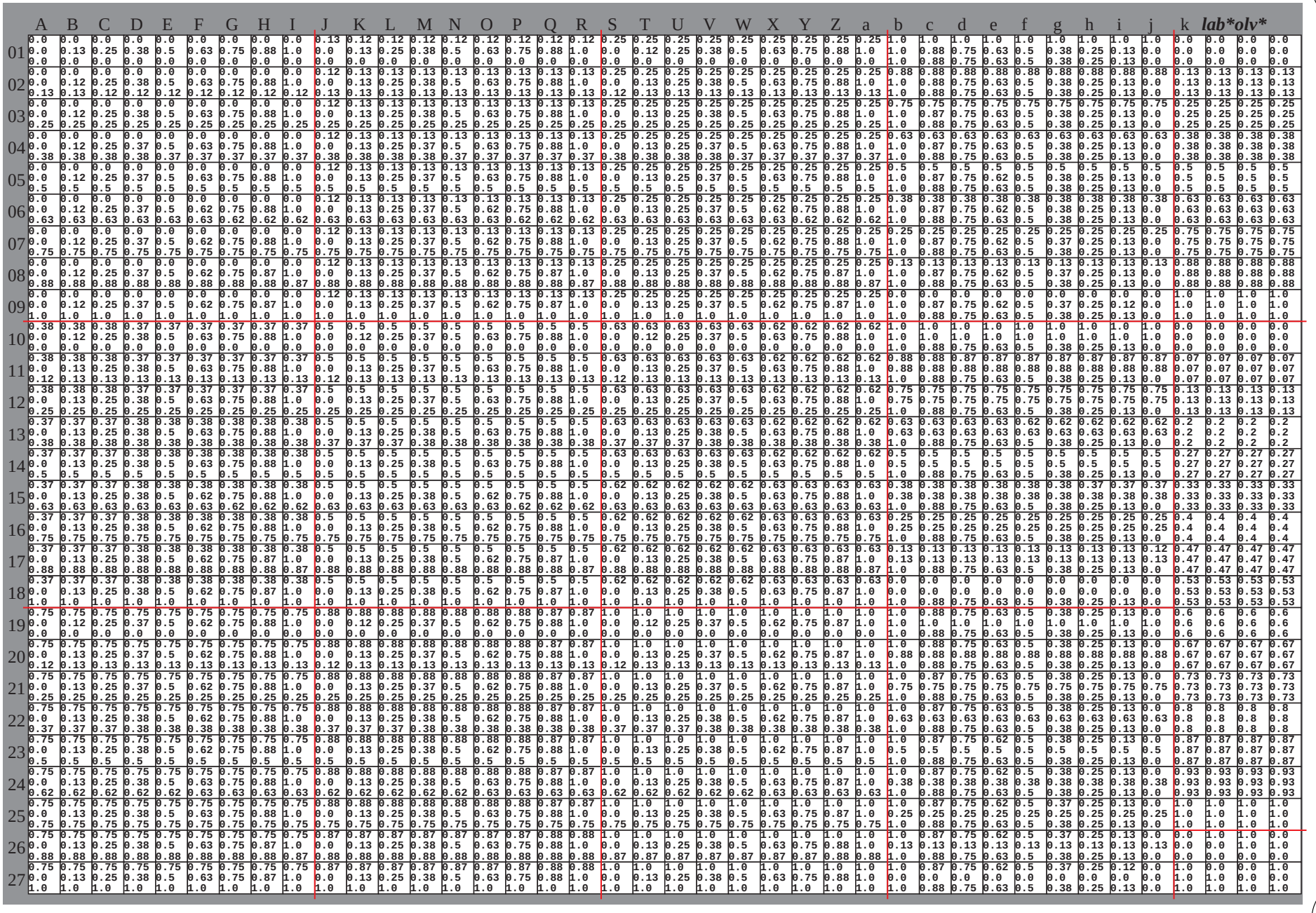
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 73 −4
*LAB*LCH**$_{Ma}$: 49 73 357
*lab*rgb**$_{Ma}$: 1.0 0.0 0.5
*lab*olv**$_{Ma}$: 1.0 0.0 0.89
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

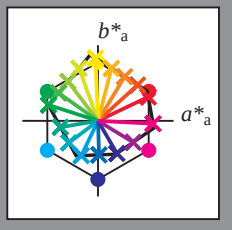




Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

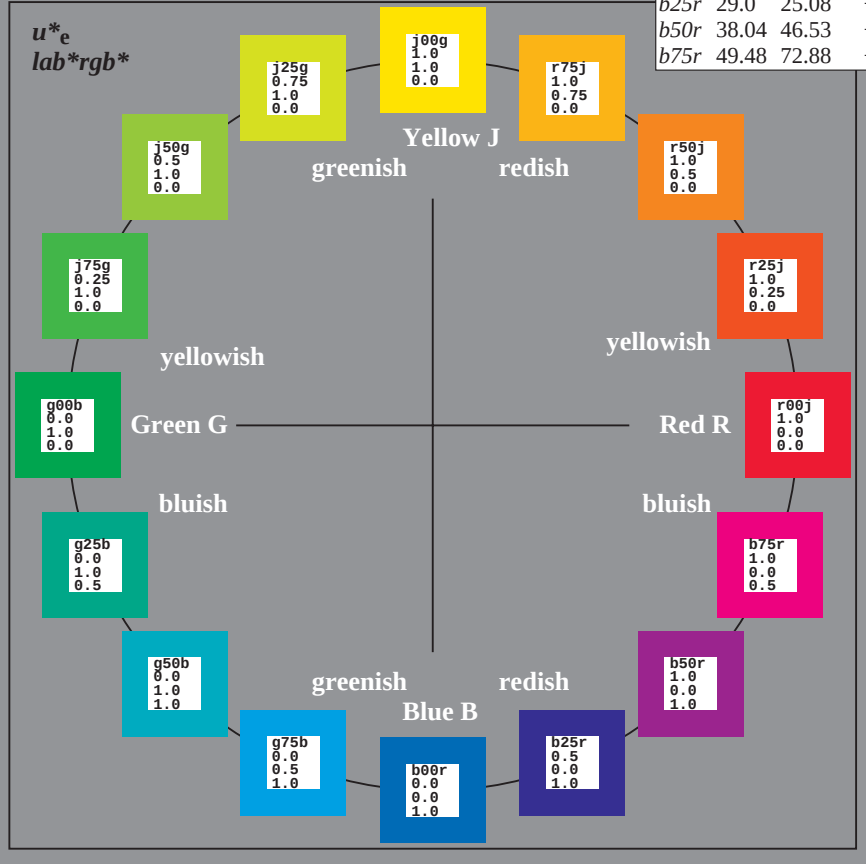
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

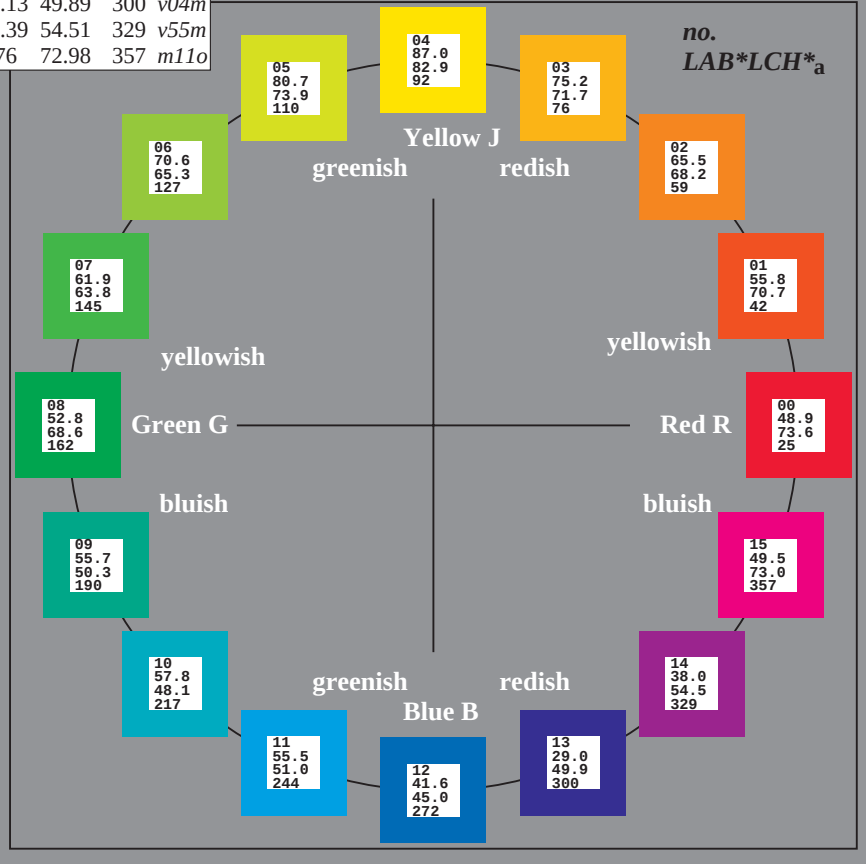


%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

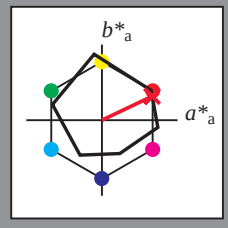
Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

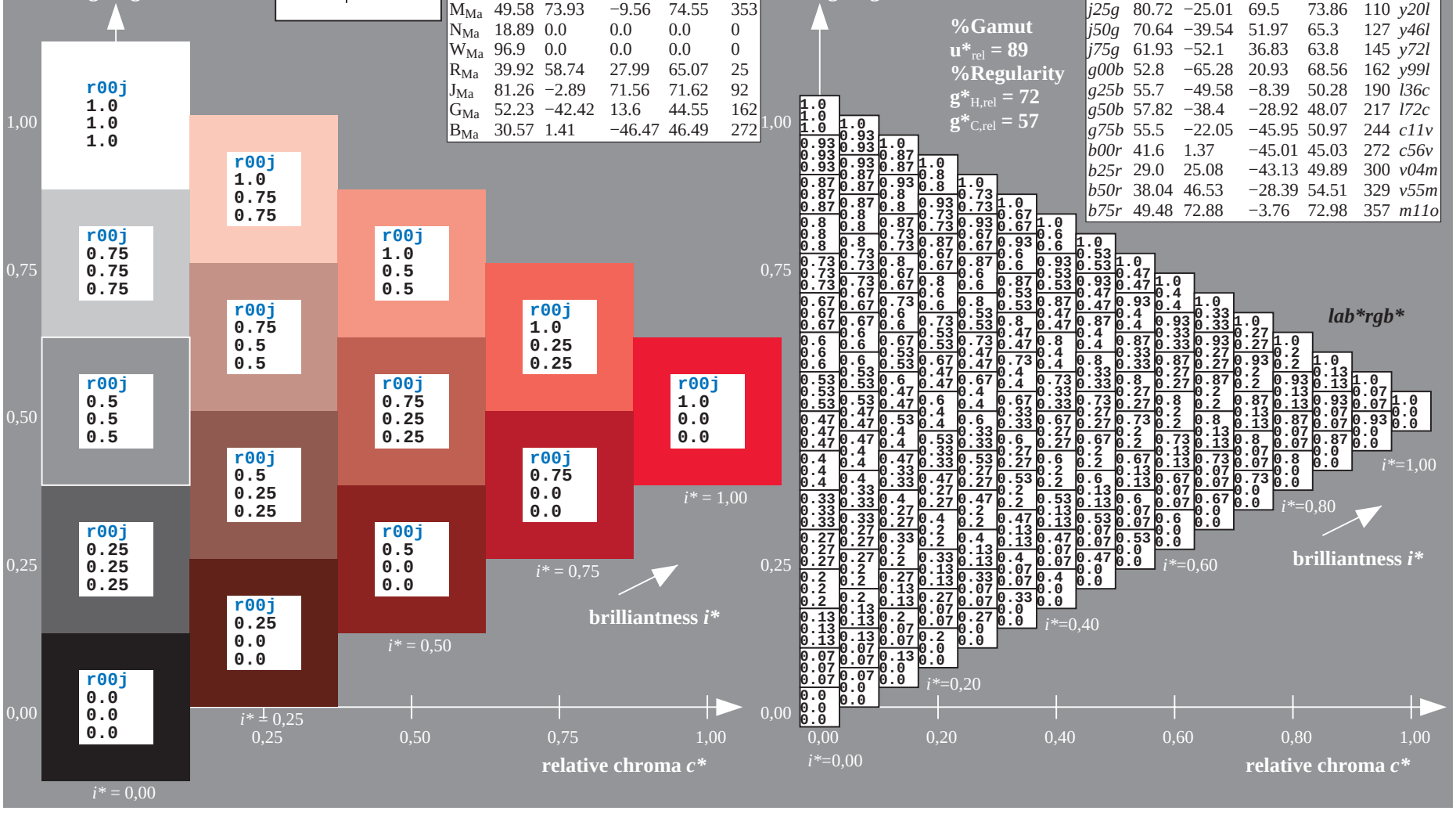
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r00j*
*lab*rgb**

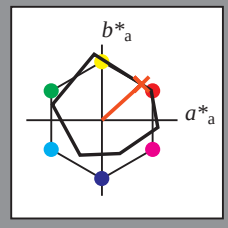
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

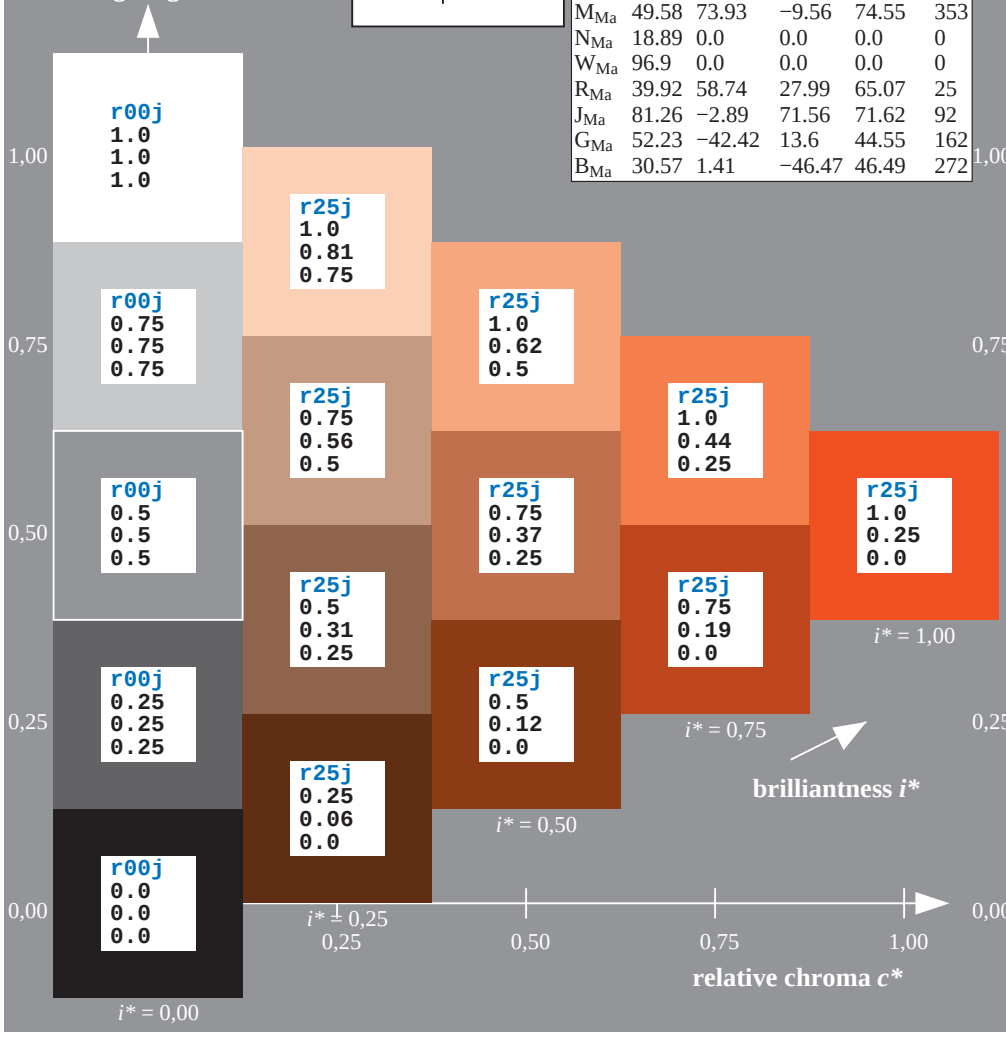
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 56 52 47**
LAB*LCH*$_{Ma}$**: 56 71 42**
lab*rgb*$_{Ma}$**: 1.0 0.25 0.0**
lab*olv*$_{Ma}$**: 1.0 0.17 0.0**
triangle lightness *t**

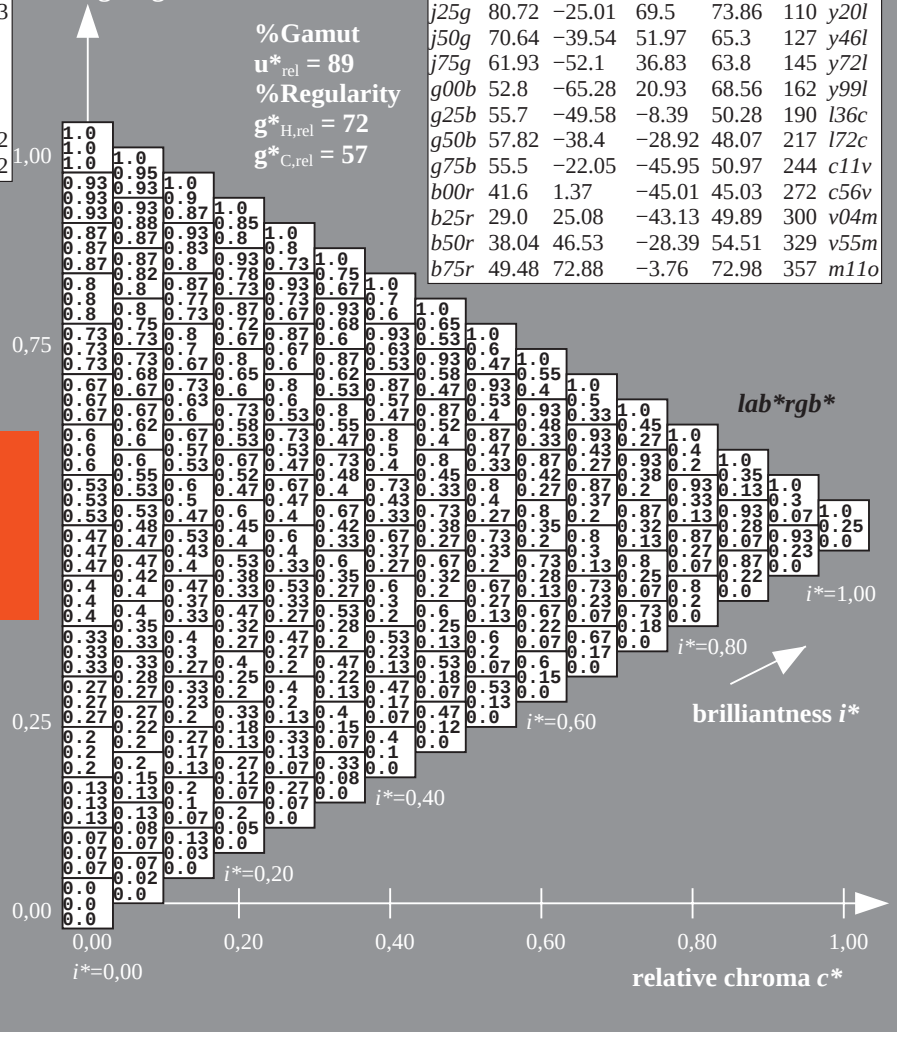
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r25j*
lab*rgb*

ORS19_96a; adapted (a) CIELAB data

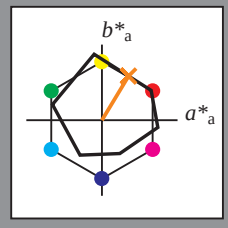
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

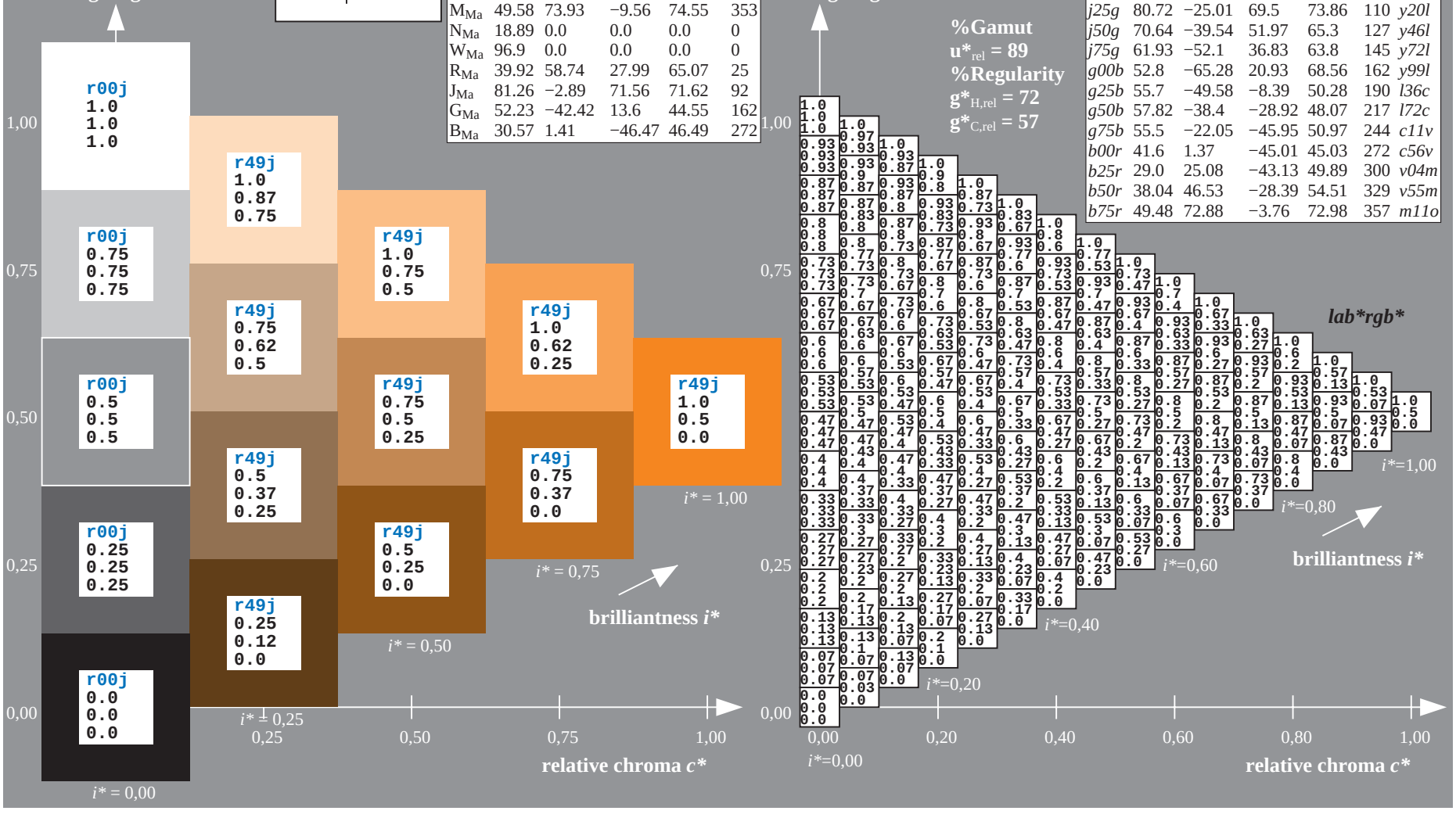
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e* = *r50j
lab*rgb*

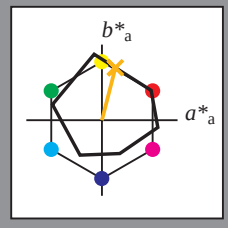
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

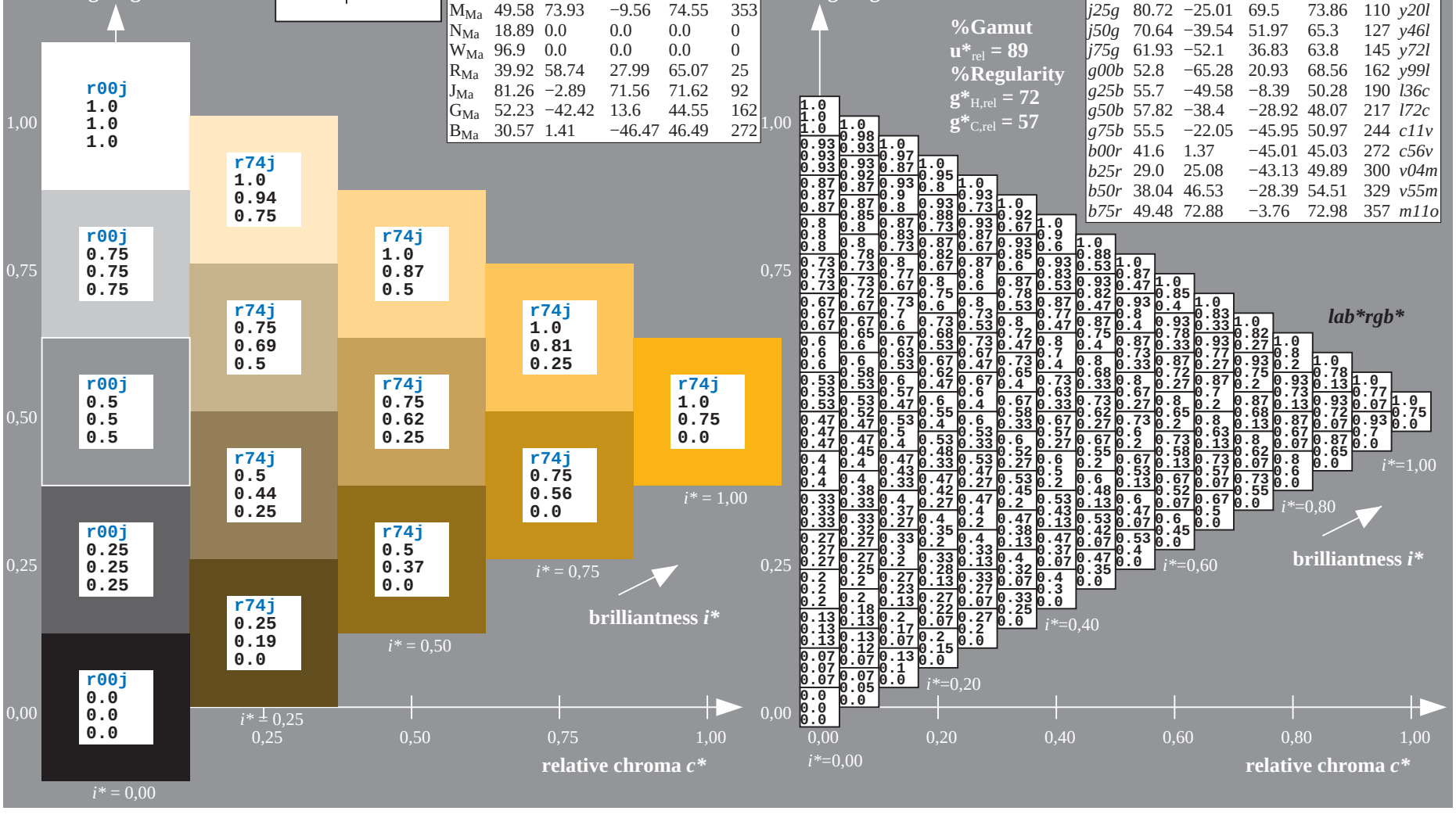
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 75 18 69**
LAB*LCH*$_{Ma}$**: 75 72 75**
lab*rgb*$_{Ma}$**: 1.0 0.75 0.0**
lab*olv*$_{Ma}$**: 1.0 0.68 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r75j*
lab*rgb*

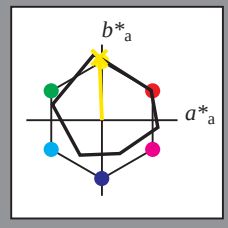
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

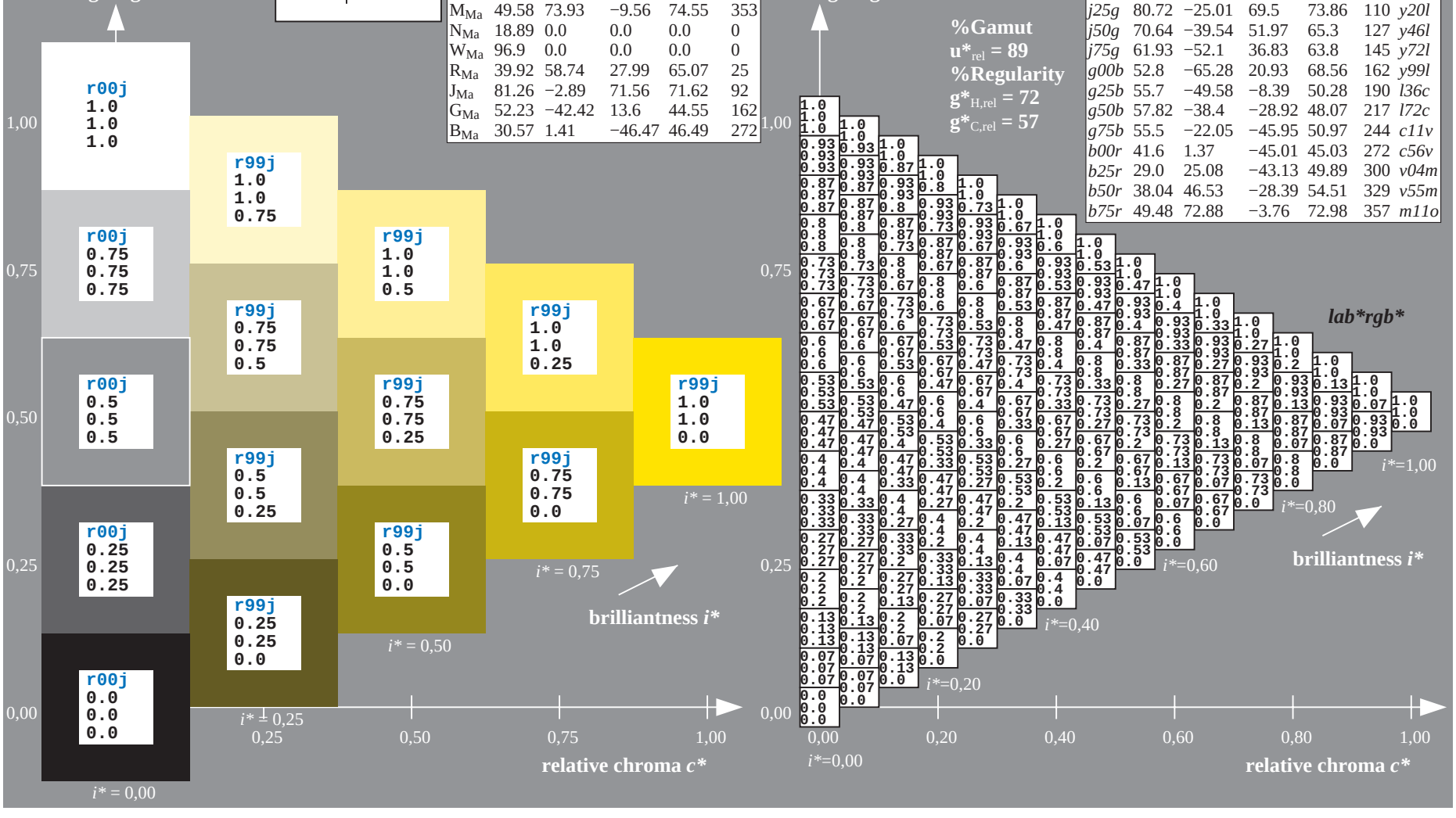
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *j00g*
*lab*rgb**

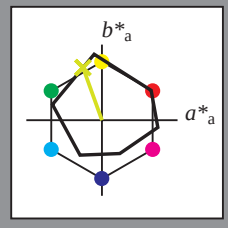
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

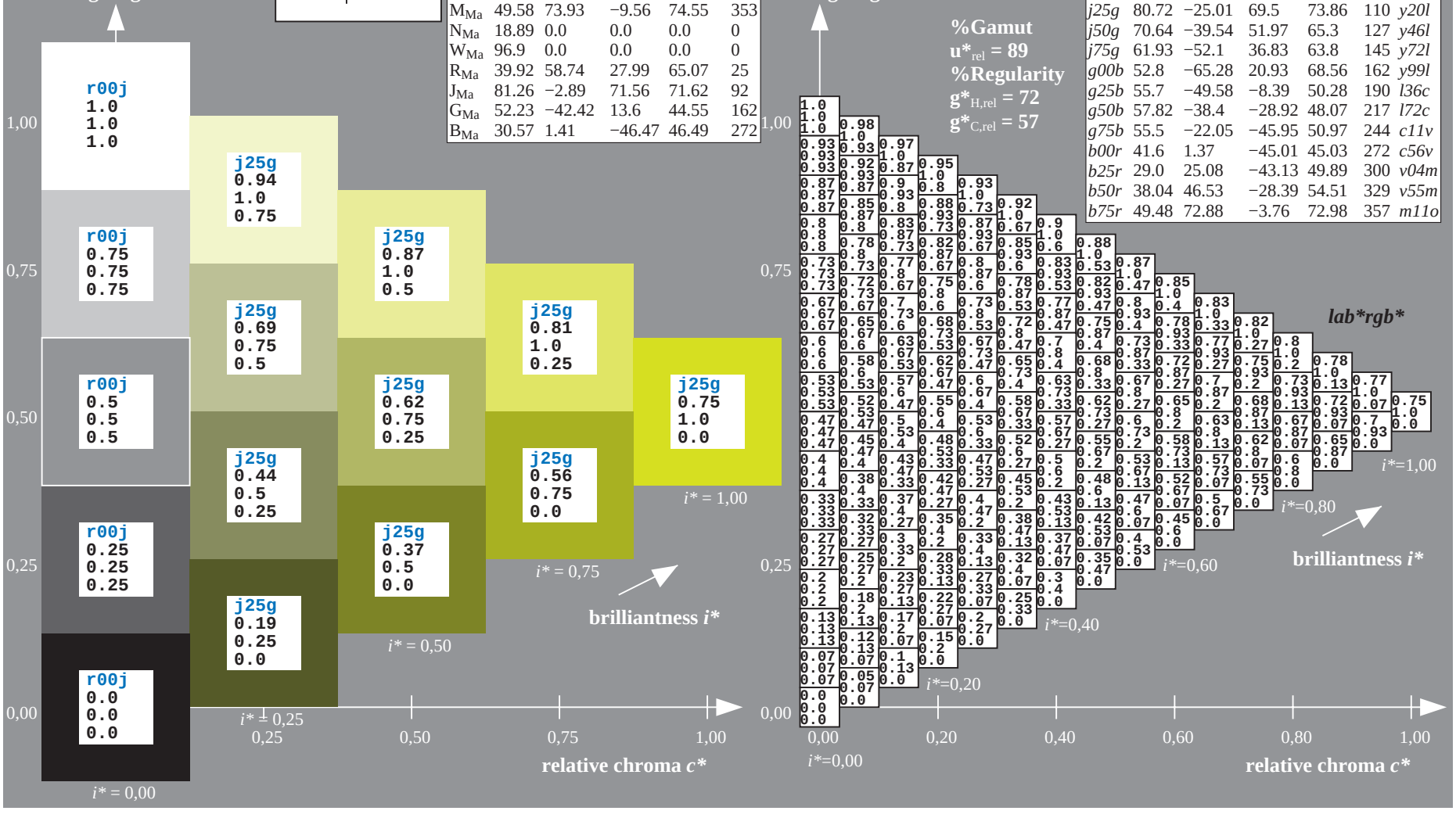
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *j25g*
*lab*rgb**

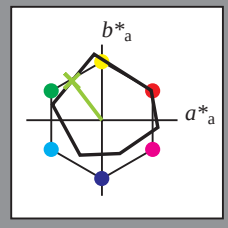
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

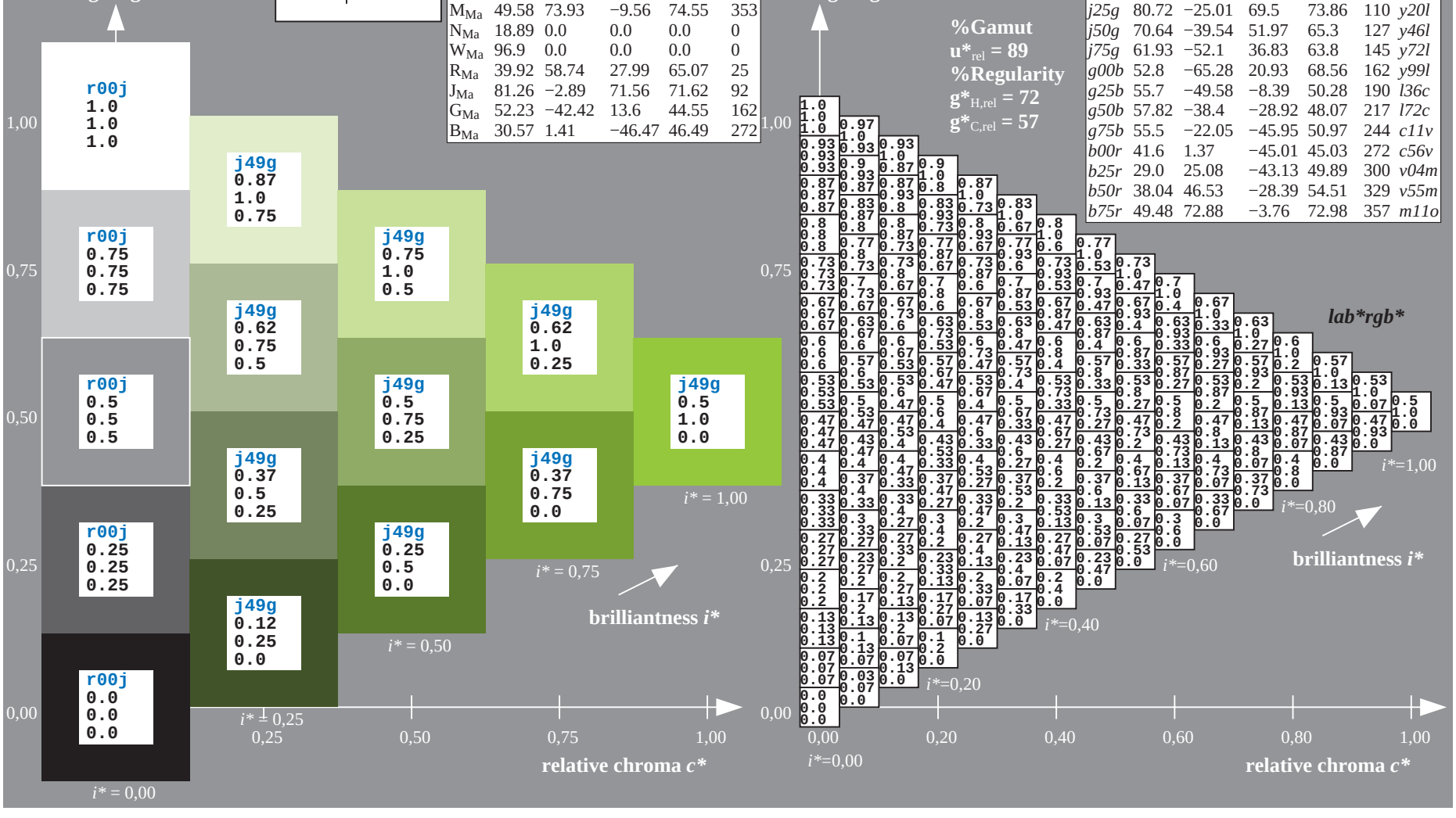
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 71 −40 52**
LAB*LCH*$_{Ma}$**: 71 65 127**
lab*rgb*$_{Ma}$**: 0.5 1.0 0.0**
lab*olv*$_{Ma}$**: 0.54 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e* = *j50g
lab*rgb*

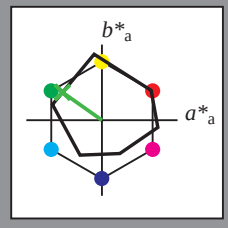
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

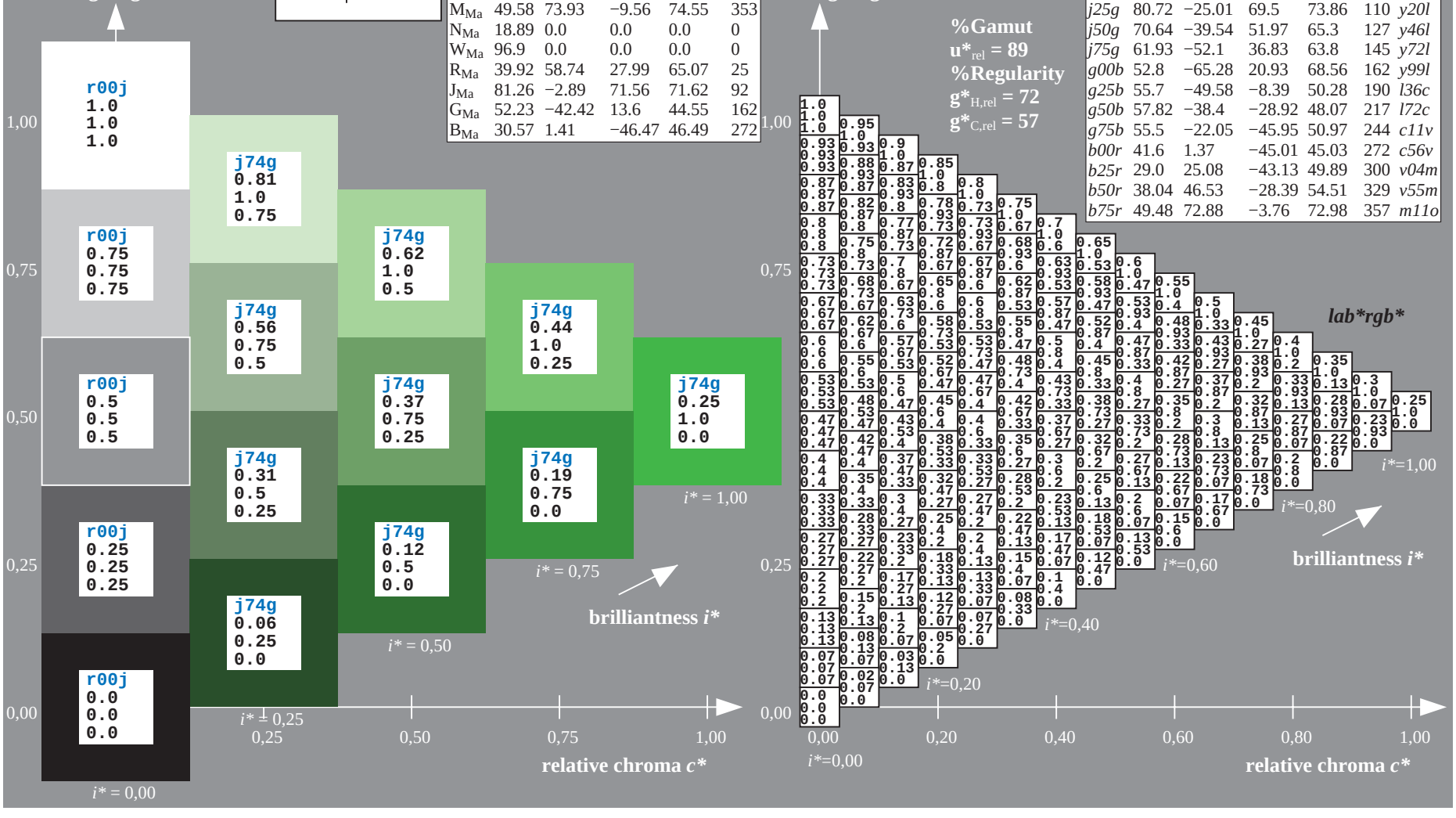
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

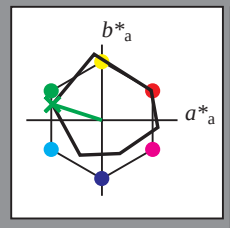
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g00b* u^*_d = *y99l*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

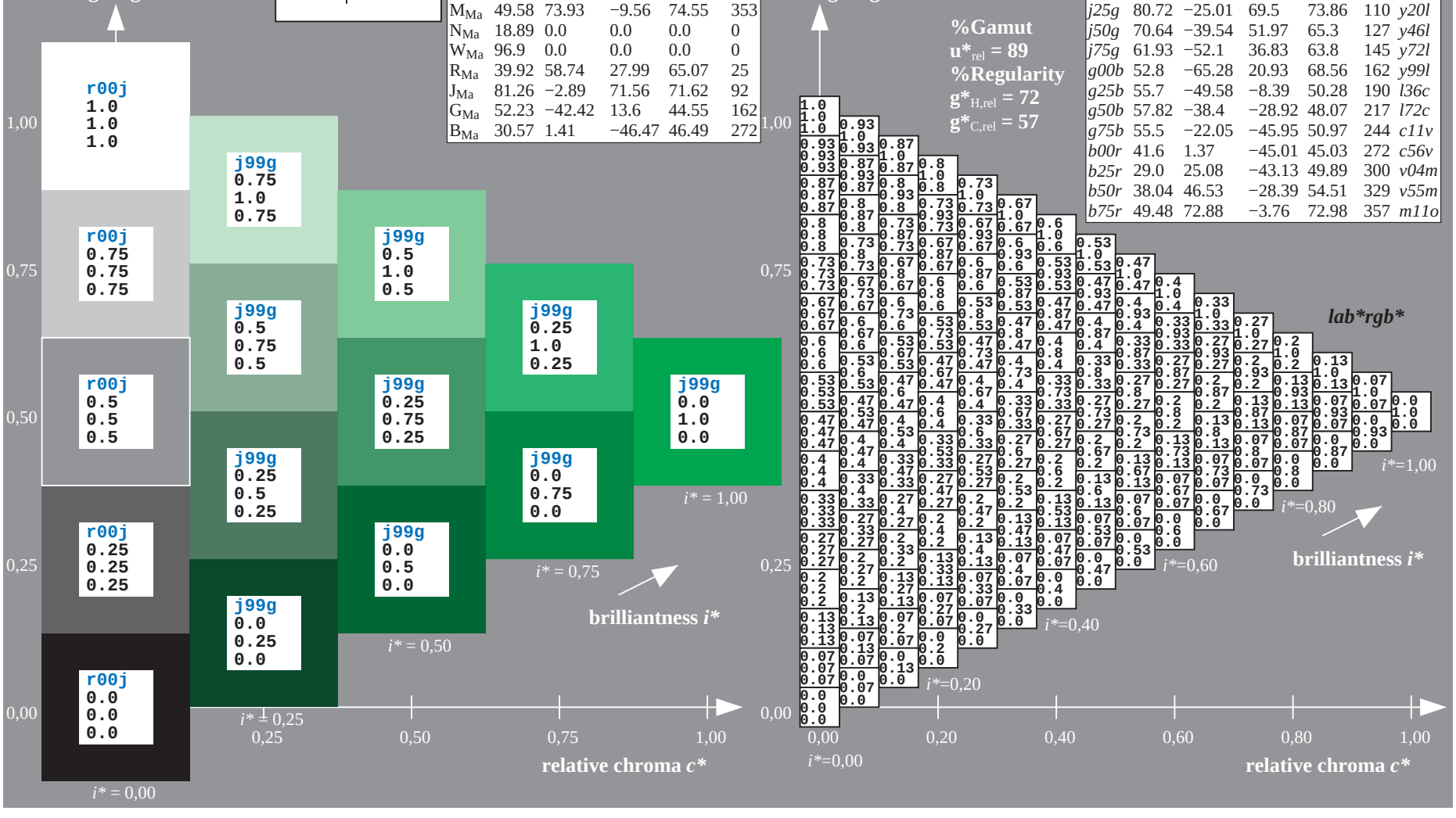
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g00b*
*lab*rgb**

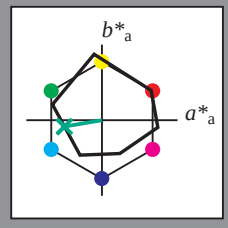
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

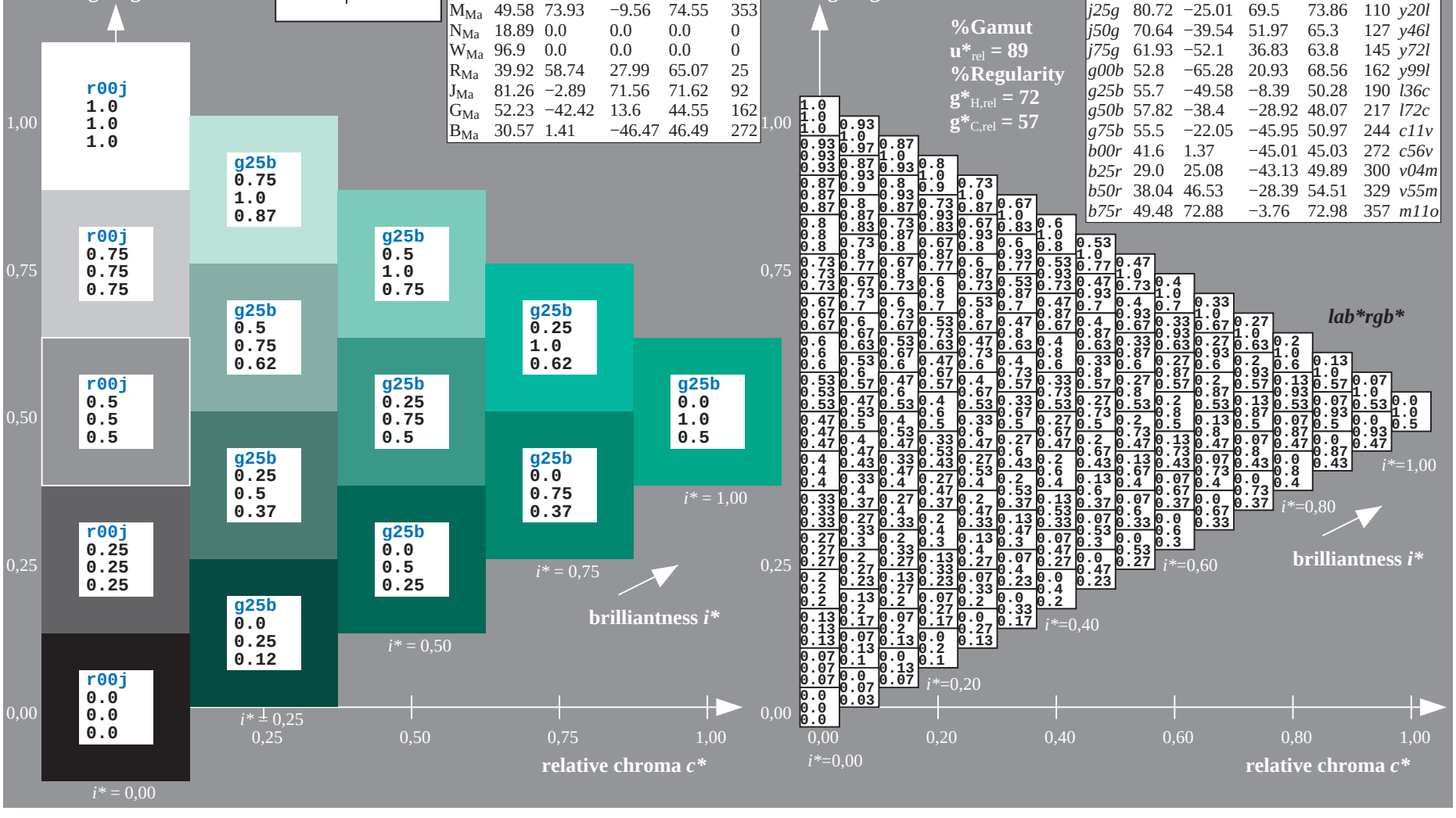
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 −50 −8
*LAB*LCH**$_{Ma}$: 56 50 189
*lab*rgb**$_{Ma}$: 0.0 1.0 0.5
*lab*olv**$_{Ma}$: 0.0 1.0 0.36
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g25b*
*lab*rgb**

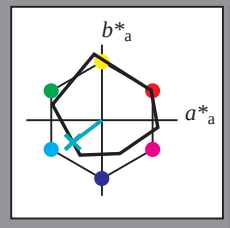
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g50b* u^*_d = *l72c*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

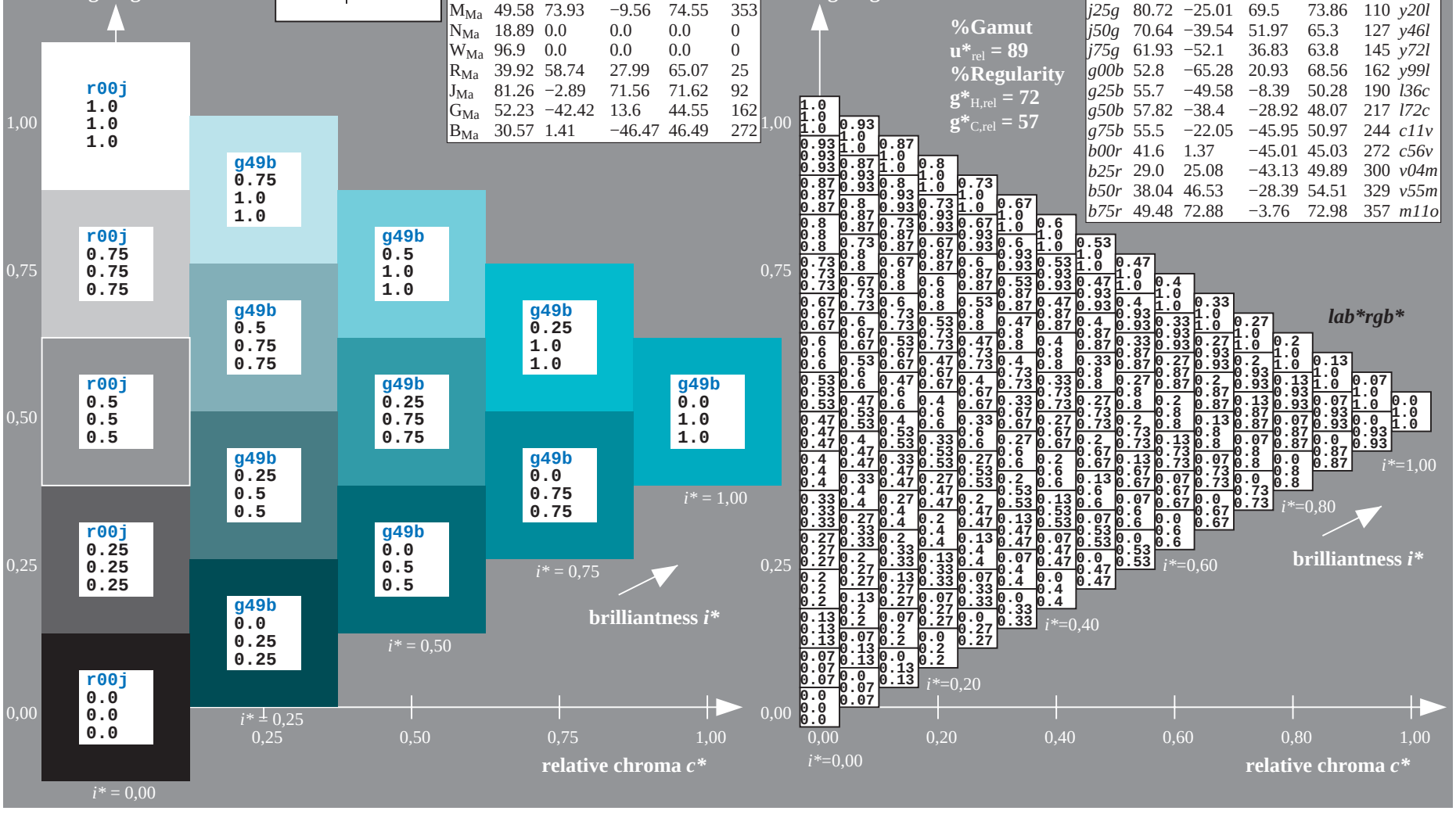
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 58 −38 −29
$LAB^*LCH^*_{Ma}$: 58 48 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.72
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

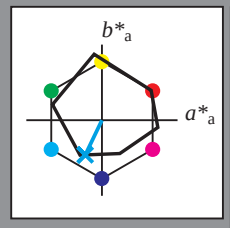
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = g75b$ $u^*_d = c11v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

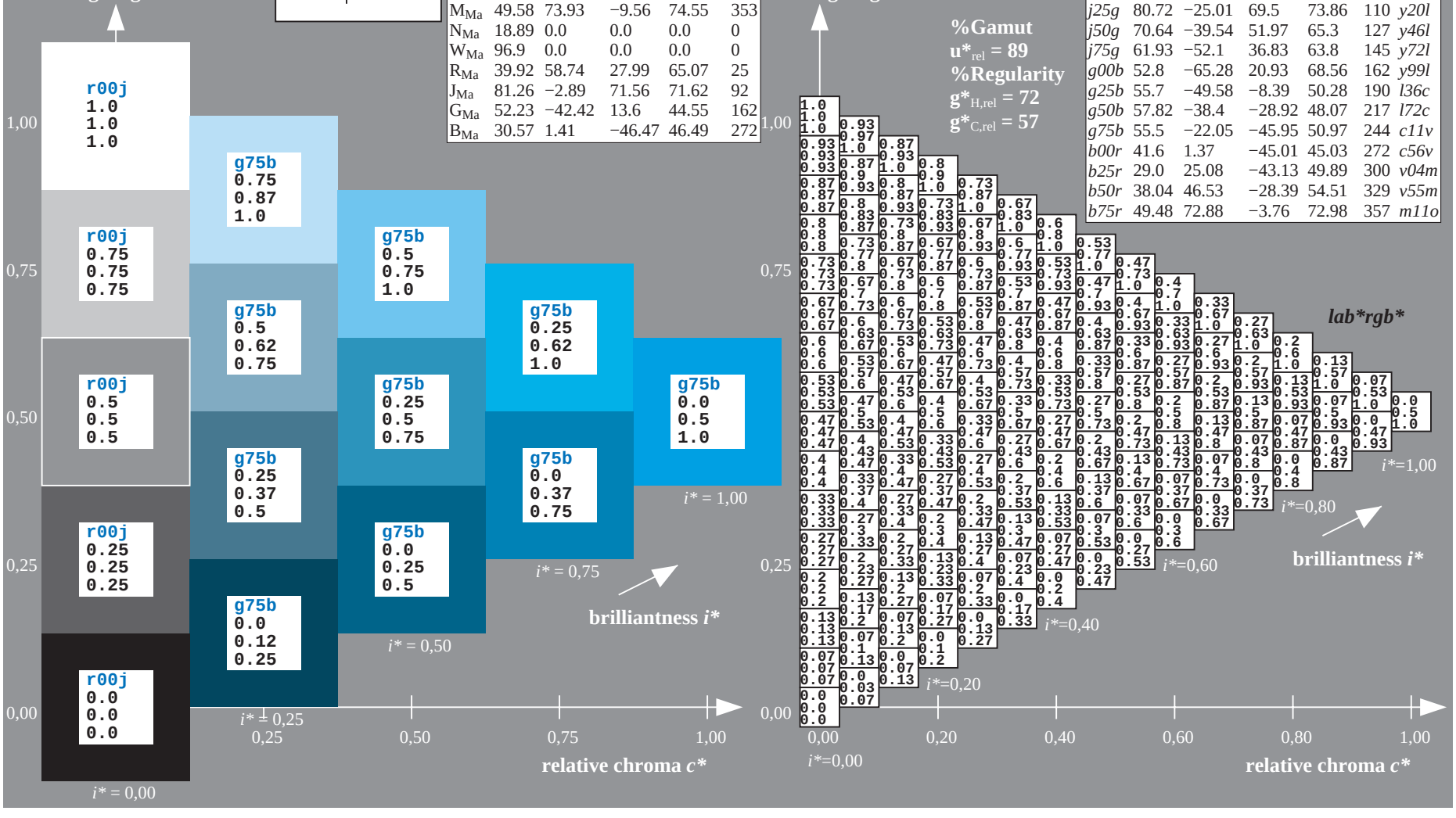
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 55 −22 −46
$LAB^*LCH^*_{Ma}$: 55 51 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

$u^*_e = g75b$
lab^*rgb^*

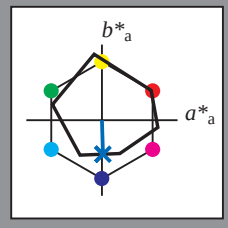
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.755**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

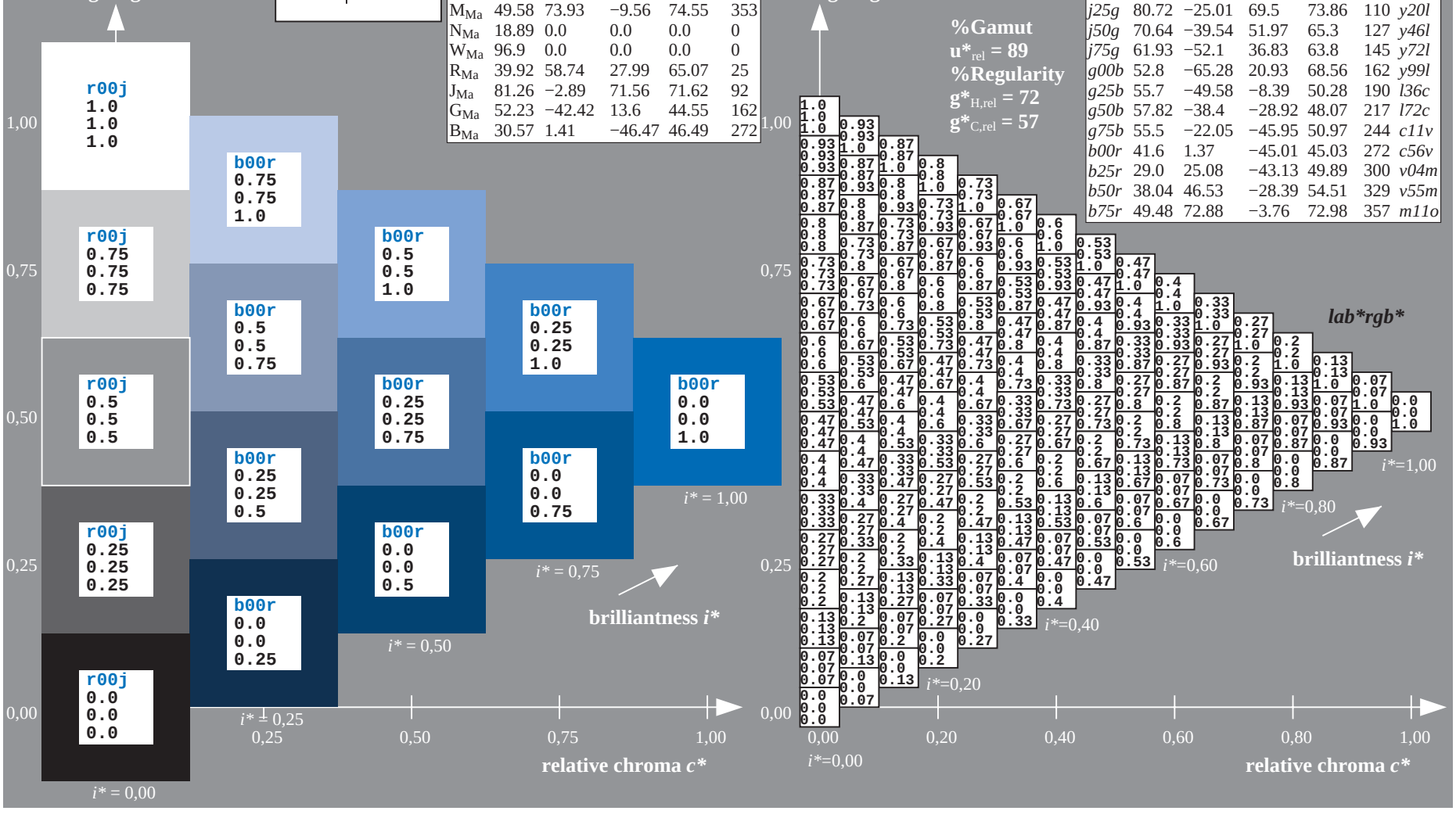
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 1 −45
*LAB*LCH**$_{Ma}$: 42 45 271
*lab*rgb**$_{Ma}$: 0.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.0 0.44 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

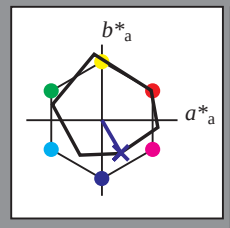
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.834**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

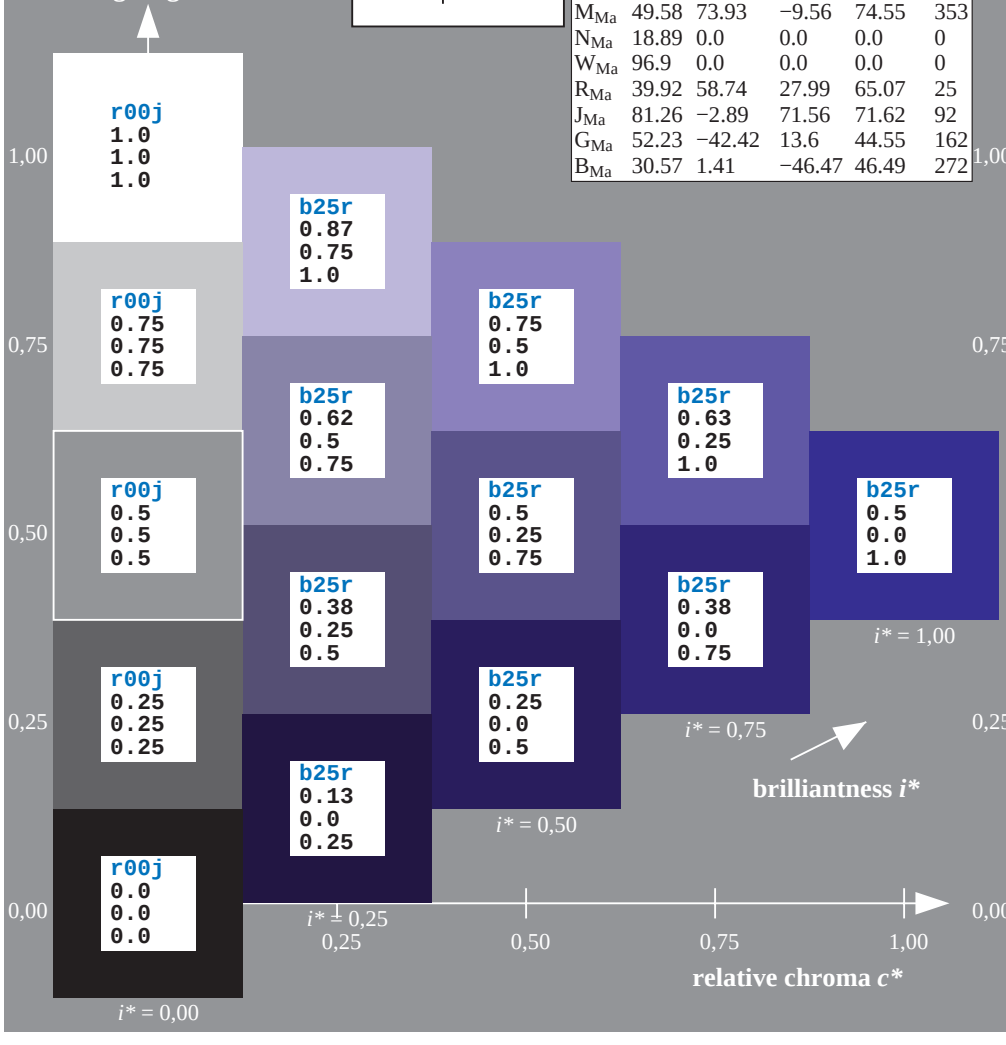
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

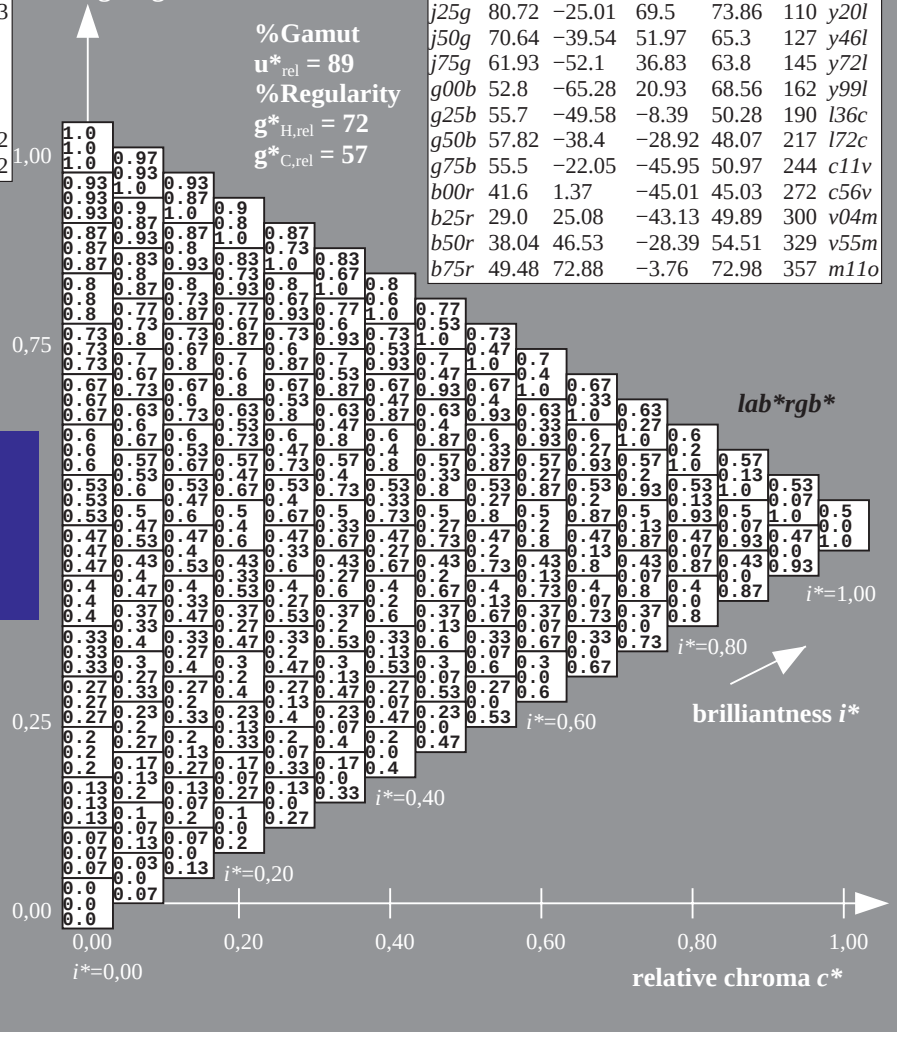
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 29 25 −43
*LAB*LCH**$_{Ma}$: 29 50 300
*lab*rgb**$_{Ma}$: 0.5 0.0 1.0
*lab*olv**$_{Ma}$: 0.04 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

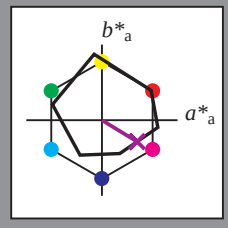
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.913**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

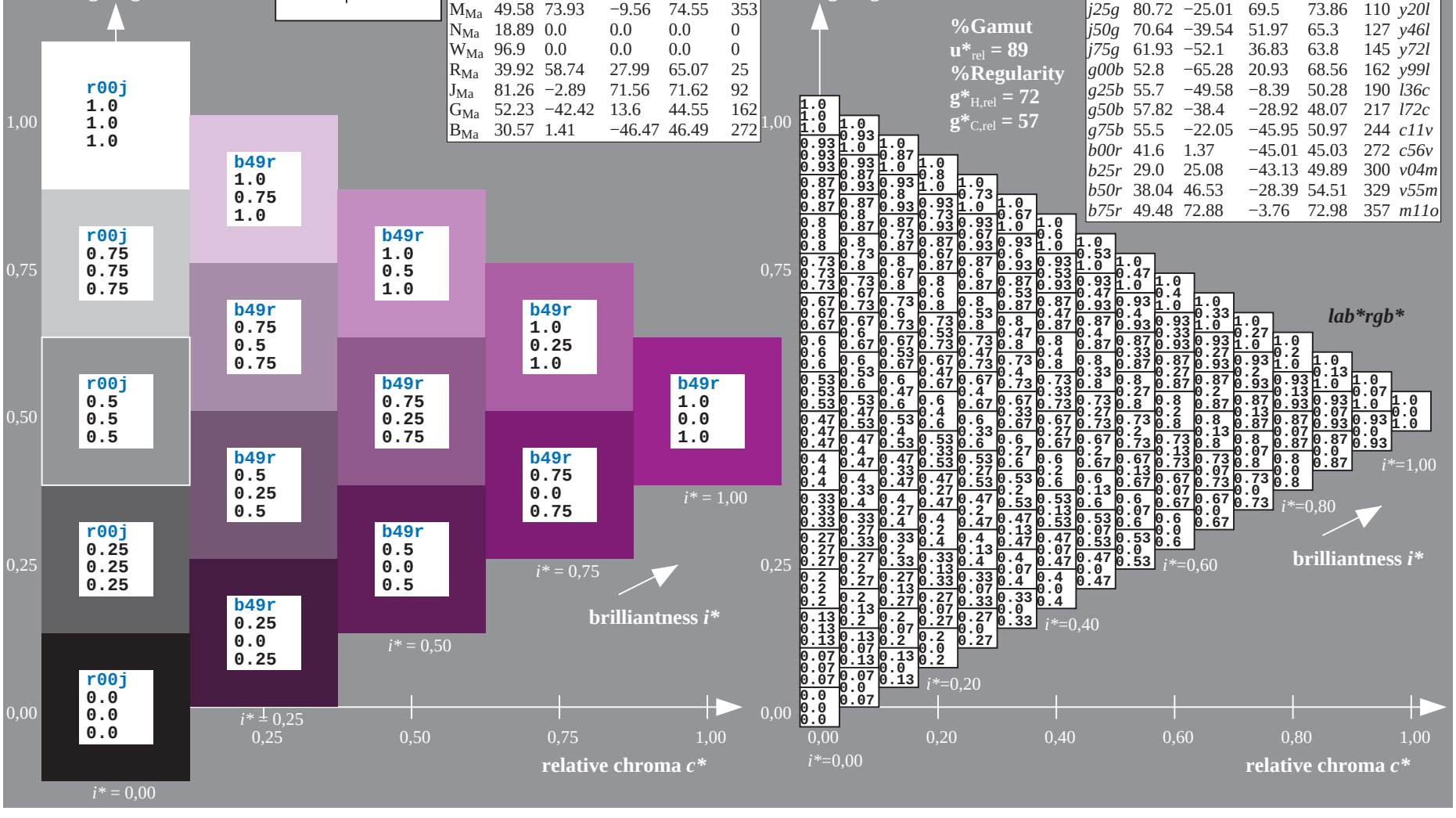
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 38 47 −28**
LAB*LCH*$_{Ma}$**: 38 55 328**
lab*rgb*$_{Ma}$**: 1.0 0.0 1.0**
lab*olv*$_{Ma}$**: 0.56 0.0 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

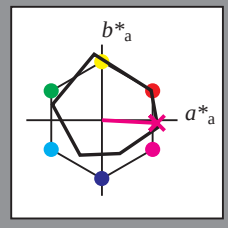
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.992$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = b75r$ $u^*_d = m11o$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

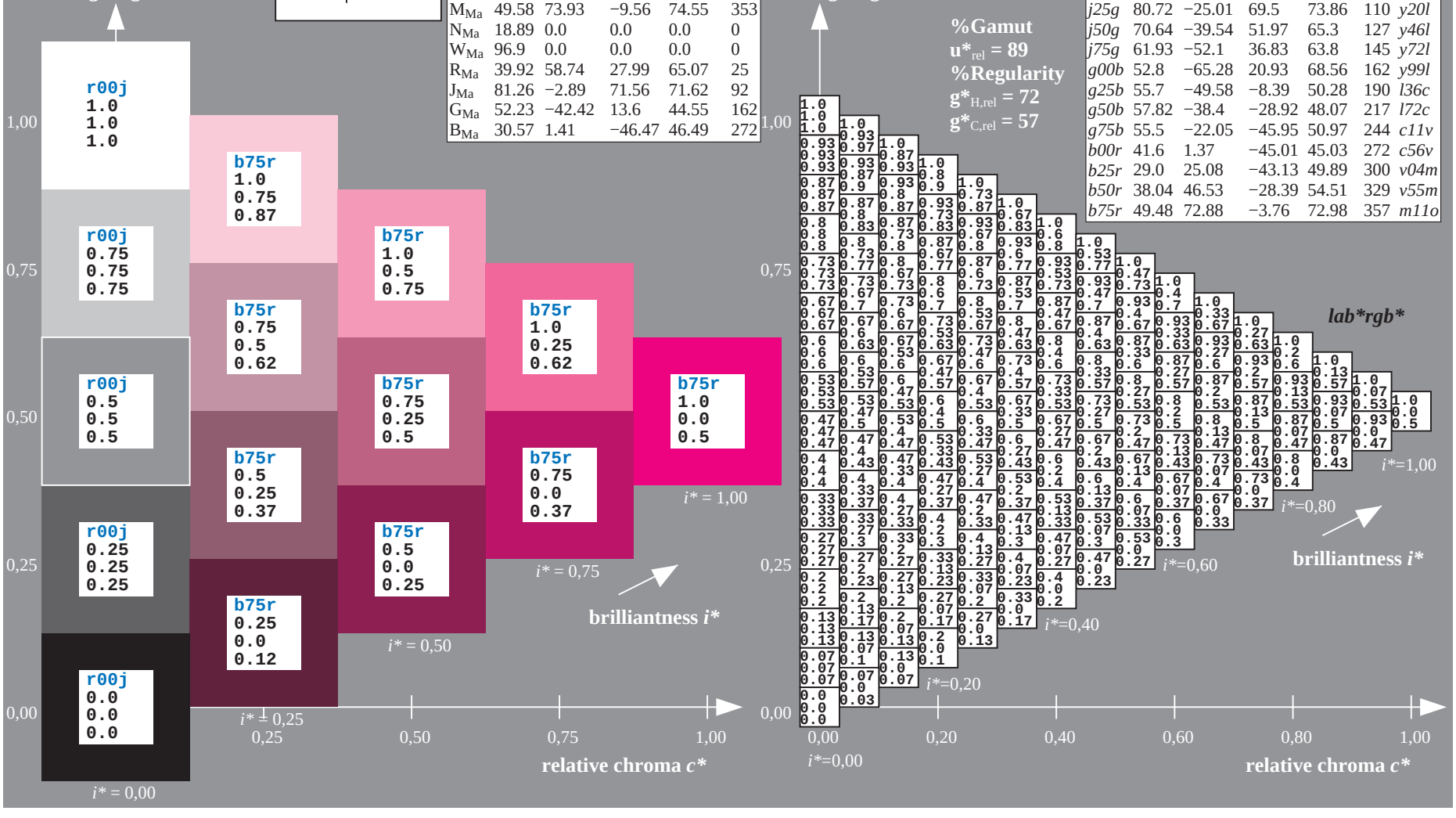
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 49 73 −4
$LAB^*LCH^*_{Ma}$: 49 73 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*olv^*_{Ma}$: 1.0 0.0 0.89
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

$u^*_e = b75r$
lab^*rgb^*

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



www.ps.bam.de/Ee12/10L/L12E00NP.PS/ .PDF; ORS19_96a; transfer and output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
01	0.0 0.0 0.0	0.0 0.13 0.0	0.0 0.25 0.0	0.0 0.38 0.0	0.0 0.5 0.0	0.0 0.63 0.0	0.0 0.75 0.0	0.0 0.88 0.0	0.0 1.0 0.0	0.13 0.01 0.0	0.12 0.13 0.0	0.12 0.25 0.0	0.12 0.38 0.0	0.12 0.5 0.0	0.12 0.63 0.0	0.12 0.75 0.0	0.12 0.88 0.0	0.11 1.0 0.0
02	0.06 0.0 0.13	0.0 0.08 0.13	0.0 0.25 0.17	0.0 0.38 0.17	0.0 0.5 0.17	0.0 0.63 0.17	0.0 0.75 0.17	0.0 0.88 0.18	0.0 1.0 0.18	0.13 0.0 0.07	0.13 0.13 0.13	0.13 0.25 0.13	0.13 0.38 0.13	0.13 0.5 0.13	0.13 0.63 0.13	0.13 0.75 0.13	0.13 0.88 0.13	0.13 1.0 0.13
03	0.12 0.0 0.25	0.0 0.02 0.25	0.0 0.15 0.25	0.0 0.38 0.35	0.0 0.5 0.35	0.0 0.63 0.35	0.0 0.75 0.35	0.0 0.88 0.35	0.0 1.0 0.35	0.24 0.0 0.25	0.18 0.13 0.25	0.13 0.2 0.25	0.13 0.38 0.3	0.13 0.5 0.3	0.13 0.63 0.3	0.13 0.75 0.3	0.13 0.88 0.3	0.13 1.0 0.3
04	0.17 0.0 0.38	0.04 0.0 0.38	0.0 0.09 0.38	0.0 0.23 0.38	0.0 0.48 0.5	0.0 0.63 0.52	0.0 0.75 0.52	0.0 0.88 0.52	0.0 1.0 0.52	0.29 0.0 0.38	0.24 0.13 0.38	0.13 0.14 0.38	0.13 0.28 0.38	0.13 0.5 0.47	0.13 0.63 0.47	0.13 0.75 0.47	0.13 0.88 0.47	0.13 1.0 0.47
05	0.23 0.0 0.5	0.1 0.0 0.5	0.0 0.03 0.5	0.0 0.17 0.5	0.0 0.31 0.5	0.0 0.56 0.63	0.0 0.75 0.69	0.0 0.88 0.69	0.0 1.0 0.69	0.35 0.0 0.5	0.3 0.13 0.5	0.17 0.13 0.5	0.13 0.22 0.5	0.13 0.36 0.5	0.13 0.61 0.63	0.13 0.75 0.64	0.13 0.88 0.64	0.13 1.0 0.65
06	0.29 0.0 0.63	0.16 0.0 0.63	0.03 0.0 0.63	0.0 0.11 0.63	0.0 0.25 0.63	0.0 0.39 0.63	0.0 0.64 0.75	0.0 0.88 0.86	0.0 1.0 0.87	0.41 0.0 0.63	0.36 0.13 0.63	0.22 0.13 0.63	0.13 0.16 0.63	0.13 0.3 0.63	0.13 0.43 0.63	0.13 0.68 0.75	0.13 0.88 0.82	0.13 1.0 0.82
07	0.35 0.0 0.75	0.22 0.0 0.75	0.08 0.0 0.75	0.0 0.05 0.75	0.0 0.19 0.75	0.0 0.33 0.75	0.0 0.46 0.75	0.0 0.71 0.88	0.0 0.96 1.0	0.47 0.0 0.75	0.42 0.13 0.75	0.28 0.13 0.75	0.15 0.13 0.75	0.13 0.24 0.75	0.13 0.37 0.75	0.13 0.51 0.75	0.13 0.76 0.88	0.13 1.0 0.99
08	0.41 0.0 0.88	0.27 0.0 0.88	0.14 0.0 0.88	0.01 0.0 0.88	0.0 0.13 0.88	0.0 0.27 0.88	0.0 0.4 0.88	0.0 0.54 0.88	0.0 0.79 1.0	0.53 0.0 0.88	0.47 0.13 0.88	0.34 0.13 0.88	0.21 0.13 0.88	0.13 0.18 0.88	0.13 0.31 0.88	0.13 0.45 0.88	0.13 0.59 0.88	0.13 0.84 1.0
09	0.46 0.0 1.0	0.33 0.0 1.0	0.2 0.0 1.0	0.07 0.0 1.0	0.0 0.07 1.0	0.0 0.21 1.0	0.0 0.34 1.0	0.0 0.48 1.0	0.0 0.62 1.0	0.58 0.0 1.0	0.53 0.13 1.0	0.4 0.13 1.0	0.27 0.13 1.0	0.13 0.13 1.0	0.13 0.25 1.0	0.13 0.39 1.0	0.13 0.53 1.0	0.13 0.67 1.0
10	0.38 0.03 0.0	0.38 0.15 0.0	0.38 0.28 0.0	0.35 0.38 0.0	0.35 0.5 0.0	0.35 0.63 0.0	0.35 0.75 0.0	0.35 0.88 0.0	0.35 1.0 0.0	0.5 0.04 0.0	0.5 0.17 0.0	0.5 0.29 0.0	0.5 0.41 0.0	0.47 0.5 0.0	0.47 0.63 0.0	0.47 0.75 0.0	0.47 0.88 0.0	0.47 1.0 0.0
11	0.38 0.0 0.05	0.38 0.15 0.13	0.38 0.27 0.13	0.36 0.38 0.13	0.36 0.5 0.13	0.36 0.63 0.13	0.36 0.75 0.13	0.36 0.88 0.13	0.36 1.0 0.13	0.5 0.0 0.03	0.5 0.16 0.13	0.5 0.28 0.13	0.5 0.4 0.13	0.48 0.5 0.13	0.48 0.63 0.13	0.48 0.75 0.13	0.48 0.88 0.13	0.47 1.0 0.13
12	0.38 0.0 0.13	0.38 0.13 0.18	0.38 0.26 0.25	0.37 0.38 0.25	0.37 0.5 0.25	0.37 0.63 0.25	0.37 0.75 0.25	0.37 0.88 0.25	0.37 1.0 0.25	0.5 0.0 0.12	0.5 0.13 0.17	0.5 0.27 0.25	0.5 0.39 0.25	0.48 0.5 0.25	0.48 0.63 0.25	0.48 0.75 0.25	0.48 0.88 0.25	0.48 1.0 0.25
13	0.38 0.0 0.22	0.38 0.13 0.27	0.38 0.25 0.32	0.38 0.38 0.38	0.38 0.5 0.38	0.38 0.63 0.38	0.38 0.75 0.38	0.38 0.88 0.38	0.38 1.0 0.38	0.5 0.0 0.2	0.5 0.13 0.26	0.5 0.25 0.31	0.5 0.39 0.38	0.49 0.5 0.38	0.49 0.63 0.38	0.49 0.75 0.38	0.49 0.88 0.38	0.49 1.0 0.38
14	0.5 0.0 0.41	0.5 0.13 0.46	0.49 0.25 0.5	0.43 0.38 0.5	0.38 0.45 0.5	0.38 0.63 0.55	0.38 0.75 0.55	0.38 0.88 0.55	0.38 1.0 0.55	0.5 0.0 0.29	0.5 0.13 0.34	0.5 0.25 0.39	0.5 0.38 0.45	0.5 0.5 0.5	0.5 0.63 0.5	0.5 0.75 0.5	0.5 0.88 0.5	0.5 1.0 0.5
15	0.63 0.0 0.6	0.6 0.13 0.63	0.54 0.25 0.63	0.49 0.38 0.63	0.38 0.39 0.63	0.38 0.53 0.63	0.38 0.75 0.72	0.38 0.88 0.72	0.38 1.0 0.72	0.63 0.0 0.48	0.63 0.13 0.53	0.63 0.25 0.59	0.61 0.38 0.63	0.56 0.5 0.63	0.5 0.58 0.63	0.5 0.75 0.67	0.5 0.88 0.67	0.5 1.0 0.67
16	0.71 0.0 0.75	0.65 0.13 0.75	0.6 0.25 0.75	0.55 0.38 0.75	0.42 0.38 0.75	0.38 0.47 0.75	0.38 0.61 0.75	0.38 0.86 0.88	0.38 1.0 0.89	0.75 0.0 0.67	0.75 0.13 0.73	0.72 0.25 0.75	0.67 0.38 0.75	0.62 0.5 0.75	0.5 0.52 0.75	0.5 0.65 0.75	0.5 0.88 0.85	0.5 1.0 0.85
17	0.77 0.0 0.88	0.71 0.13 0.88	0.66 0.25 0.88	0.61 0.38 0.88	0.47 0.38 0.88	0.38 0.41 0.88	0.38 0.55 0.88	0.38 0.68 0.88	0.38 0.93 1.0	0.88 0.0 0.86	0.83 0.13 0.88	0.78 0.25 0.88	0.73 0.38 0.88	0.67 0.5 0.88	0.54 0.5 0.88	0.5 0.59 0.88	0.5 0.73 0.88	0.5 0.98 1.0
18	0.82 0.0 1.0	0.77 0.13 1.0	0.72 0.25 1.0	0.67 0.38 1.0	0.53 0.38 1.0	0.4 0.38 1.0	0.38 0.49 1.0	0.38 0.62 1.0	0.38 0.76 1.0	0.94 0.0 1.0	0.89 0.13 1.0	0.84 0.25 1.0	0.79 0.38 1.0	0.73 0.5 1.0	0.6 0.5 1.0	0.5 0.53 1.0	0.5 0.67 1.0	0.5 0.81 1.0
19	0.75 0.06 0.0	0.75 0.19 0.0	0.75 0.31 0.0	0.75 0.43 0.0	0.75 0.55 0.0	0.75 0.68 0.0	0.7 0.75 0.0	0.7 0.88 0.0	0.7 1.0 0.0	0.88 0.08 0.0	0.88 0.2 0.0	0.88 0.32 0.0	0.88 0.44 0.0	0.88 0.57 0.0	0.88 0.69 0.0	0.88 0.81 0.0	0.82 0.88 0.0	0.82 1.0 0.0
20	0.75 0.0 0.01	0.75 0.18 0.13	0.75 0.3 0.13	0.75 0.42 0.13	0.75 0.55 0.13	0.75 0.67 0.13	0.71 0.75 0.13	0.71 0.88 0.13	0.71 1.0 0.13	0.88 0.0 0.0	0.88 0.19 0.13	0.88 0.31 0.13	0.88 0.43 0.13	0.88 0.56 0.13	0.88 0.68 0.13	0.88 0.8 0.13	0.83 0.88 0.13	0.83 1.0 0.13
21	0.75 0.0 0.09	0.75 0.13 0.15	0.75 0.29 0.25	0.75 0.42 0.25	0.75 0.54 0.25	0.75 0.66 0.25	0.72 0.75 0.25	0.72 0.88 0.25	0.72 1.0 0.25	0.88 0.0 0.08	0.88 0.13 0.13	0.88 0.3 0.25	0.88 0.43 0.25	0.88 0.55 0.25	0.88 0.67 0.25	0.88 0.79 0.25	0.84 0.88 0.25	0.84 1.0 0.25
22	0.75 0.0 0.18	0.75 0.13 0.23	0.75 0.25 0.28	0.75 0.41 0.38	0.75 0.53 0.38	0.75 0.65 0.38	0.73 0.75 0.38	0.73 0.88 0.38	0.73 1.0 0.38	0.88 0.0 0.17	0.88 0.13 0.22	0.88 0.25 0.27	0.88 0.42 0.38	0.88 0.54 0.38	0.88 0.66 0.38	0.88 0.79 0.38	0.84 0.88 0.38	0.84 1.0 0.38
23	0.75 0.0 0.26	0.75 0.13 0.32	0.75 0.25 0.37	0.75 0.38 0.42	0.75 0.52 0.5	0.75 0.64 0.5	0.73 0.75 0.5	0.73 0.88 0.5	0.73 1.0 0.5	0.88 0.0 0.25	0.88 0.13 0.3	0.88 0.25 0.36	0.88 0.38 0.41	0.88 0.53 0.5	0.88 0.65 0.5	0.88 0.78 0.5	0.85 0.88 0.5	0.85 1.0 0.5
24	0.75 0.0 0.35	0.75 0.13 0.4	0.75 0.25 0.45	0.75 0.38 0.51	0.75 0.5 0.56	0.75 0.64 0.63	0.74 0.75 0.63	0.74 0.88 0.63	0.74 1.0 0.63	0.88 0.0 0.34	0.88 0.13 0.39	0.88 0.25 0.44	0.88 0.38 0.49	0.88 0.5 0.55	0.88 0.65 0.63	0.88 0.77 0.63	0.86 0.88 0.63	0.86 1.0 0.63
25	0.75 0.0 0.43	0.75 0.13 0.49	0.75 0.25 0.54	0.75 0.38 0.59	0.75 0.5 0.64	0.75 0.63 0.7	0.75 0.75 0.75	0.75 0.88 0.75	0.75 1.0 0.75	0.88 0.0 0.42	0.88 0.13 0.47	0.88 0.25 0.53	0.88 0.38 0.58	0.88 0.5 0.63	0.88 0.63 0.68	0.88 0.76 0.75	0.87 0.88 0.75	0.87 1.0 0.75
26	0.88 0.0 0.63	0.88 0.13 0.68	0.88 0.25 0.73	0.88 0.38 0.78	0.88 0.5 0.84	0.86 0.63 0.88	0.81 0.75 0.88	0.75 0.83 0.88	0.75 1.0 0.92	0.88 0.0 0.51	0.88 0.13 0.56	0.88 0.25 0.61	0.88 0.38 0.66	0.88 0.5 0.72	0.88 0.63 0.77	0.88 0.75 0.82	0.88 0.88 0.88	0.88 1.0 0.88
27	1.0 0.0 0.82	1.0 0.13 0.87	1.0 0.25 0.92	1.0 0.38 0.98	0.97 0.5 1.0	0.92 0.63 1.0	0.87 0.75 1.0	0.75 0.77 1.0	0.75 0.9 1.0	1.0 0.0 0.7	1.0 0.13 0.75	1.0 0.25 0.8	1.0 0.38 0.86	1.0 0.5 0.91	1.0 0.63 0.96	0.99 0.75 1.0	0.93 0.88 1.0	0.88 0.95 1.0

	S	T	U	V	W	X	Y	Z	a	b	c	d	e	f	g	h	i	j	k	*lab*rgb**		
01	0.25 0.02 0.0	0.25 0.14 0.0	0.23 0.25 0.0	0.23 0.38 0.0	0.23 0.5 0.0	0.23 0.63 0.0	0.23 0.75 0.0	0.23 0.88 0.0	0.23 1.0 0.0	1.0 1.0 1.0	1.0 0.89 0.88	1.0 0.77 0.75	1.0 0.66 0.63	1.0 0.54 0.5	1.0 0.43 0.38	1.0 0.31 0.25	1.0 0.2 0.13	1.0 0.09 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
02	0.25 0.0 0.06	0.25 0.14 0.13	0.24 0.25 0.13	0.24 0.38 0.13	0.24 0.5 0.13	0.24 0.63 0.13	0.24 0.75 0.13	0.24 0.88 0.13	0.24 1.0 0.13	0.88 0.95 1.0	0.88 0.88 0.88	0.88 0.76 0.75	0.88 0.65 0.63	0.88 0.53 0.5	0.88 0.42 0.38	0.88 0.3 0.25	0.88 0.19 0.13	0.88 0.08 0.0	0.13 0.13 0.13	0.13 0.13 0.13	0.13 0.13 0.13	0.13 0.13 0.13
03	0.25 0.0 0.14	0.25 0.13 0.2	0.25 0.25 0.25	0.25 0.38 0.25	0.25 0.5 0.25	0.25 0.63 0.25	0.25 0.75 0.25	0.25 0.88 0.25	0.25 1.0 0.25	0.75 0.9 1.0	0.75 0.83 0.88	0.75 0.75 0.75	0.75 0.64 0.63	0.75 0.52 0.5	0.75 0.41 0.38	0.75 0.29 0.25	0.75 0.18 0.13	0.75 0.06 0.0	0.25 0.25 0.25	0.25 0.25 0.25	0.25 0.25 0.25	0.25 0.25 0.25
04	0.38 0.0 0.34	0.36 0.13 0.38	0.31 0.25 0.38	0.25 0.33 0.38	0.25 0.5 0.42	0.25 0.63 0.42	0.25 0.75 0.42	0.25 0.88 0.42	0.25 1.0 0.42	0.63 0.86 1.0	0.63 0.78 0.88	0.63 0.7 0.75	0.63 0.63 0.63	0.63 0.51 0.5	0.63 0.4 0.38	0.63 0.28 0.25	0.63 0.17 0.13	0.63 0.05 0.0	0.38 0.38 0.38	0.38 0.38 0.38	0.38 0.38 0.38	0.38 0.38 0.38
05	0.47 0.0 0.5	0.42 0.13 0.5	0.37 0.25 0.5	0.25 0.27 0.5	0.25 0.4 0.5	0.25 0.63 0.6	0.25 0.75 0.6	0.25 0.88 0.6	0.25 1.0 0.6	0.5 0.81 1.0	0.5 0.73 0.88	0.5 0.65 0.75	0.5 0.58 0.63	0.5 0.5 0.5	0.5 0.39 0.38	0.5 0.27 0.25	0.5 0.16 0.13	0.5 0.04 0.0	0.5 0.5 0.5	0.5 0.5 0.5	0.5 0.5 0.5	0.5 0.5 0.5
06	0.53 0.0 0.63	0.48 0.13 0.63	0.42 0.25 0.63	0.29 0.25 0.63	0.25 0.34 0.63	0.25 0.48 0.63	0.25 0.73 0.75	0.25 0.88 0.77	0.25 1.0 0.77	0.38 0.76 1.0	0.38 0.68 0.88	0.38 0.61 0.75	0.38 0.53 0.63	0.38 0.45 0.5	0.38 0.38 0.38	0.38 0.26 0.25	0.38 0.15 0.13	0.38 0.03 0.0	0.63 0.63 0.63	0.63 0.63 0.63	0.63 0.63 0.63	0.63 0.63 0.63
07	0.59 0.0 0.75	0.54 0.13 0.75	0.48 0.25 0.75	0.35 0.25 0.75	0.25 0.28 0.75	0.25 0.42 0.75	0.25 0.56 0.75	0.25 0.81 0.88	0.25 1.0 0.94	0.25 0.71 1.0	0.25 0.64 0.88	0.25 0.56 0.75	0.25 0.48 0.63	0.25 0.4 0.5	0.25 0.33 0.38	0.25 0.25 0.25	0.25 0.14 0.13	0.25 0.02 0.0	0.75 0.75 0.75	0.75 0.75 0.75	0.75 0.75 0.75	0.75 0.75 0.75
08	0.65 0.0 0.88	0.59 0.13 0.88	0.54 0.25 0.88	0.41 0.25 0.88	0.28 0.25 0.88	0.25 0.36 0.88	0.25 0.5 0.88	0.25 0.64 0.88	0.25 0.89 1.0	0.13 0.67 1.0	0.13 0.59 0.88	0.13 0.51 0.75	0.13 0.43 0.63	0.13 0.36 0.5	0.13 0.28 0.38	0.13 0.2 0.25	0.13 0.13 0.13	0.13 0.01 0.0	0.88 0.88 0.88	0.88 0.88 0.88	0.88 0.88 0.88	0.88 0.88 0.88
09	0.7 0.0 1.0	0.65 0.13 1.0	0.6 0.25 1.0	0.47 0.25 1.0	0.33 0.25 1.0	0.25 0.3 1.0	0.25 0.44 1.0	0.25 0.58 1.0	0.25 0.71 1.0	0.0 0.62 1.0	0.0 0.54 0.88	0.0 0.46 0.75	0.0 0.39 0.63	0.0 0.31 0.5	0.0 0.23 0.38	0.0 0.15 0.25	0.0 0.08 0.13	0.0 0.0 0.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0
10	0.63 0.05 0.0	0.63 0.18 0.0	0.63 0.3 0.0	0.63 0.42 0.0	0.63 0.54 0.0	0.59 0.63 0.0	0.59 0.75 0.0	0.58 0.88 0.0	0.58 1.0 0.0	1.0 1.0 1.0	0.99 1.0 0.88	0.98 1.0 0.75	0.98 1.0 0.63	0.97 1.0 0.5	0.96 1.0 0.38	0.95 1.0 0.25	0.94 1.0 0.13	0.94 1.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
11	0.63 0.0 0.02	0.63 0.17 0.13	0.63 0.29 0.13	0.63 0.41 0.13	0.63 0.54 0.13	0.59 0.63 0.13	0.59 0.75 0.13	0.59 0.88 0.13	0.59 1.0 0.13	0.93 0.88 1.0	0.88 0.88 0.88	0.87 0.88 0.75	0.86 0.88 0.63	0.85 0.88 0.5	0.84 0.88 0.38	0.84 0.88 0.25	0.83 0.88 0.13	0.82 0.88 0.0	0.07 0.07 0.07	0.07 0.07 0.07	0.07 0.07 0.07	0.07 0.07 0.07
12	0.63 0.0 0.11	0.63 0.13 0.16	0.63 0.28 0.25	0.63 0.4 0.25	0.63 0.53 0.25	0.6 0.63 0.25	0.6 0.75 0.25	0.6 0.88 0.25	0.6 1.0 0.25	0.87 0.75 1.0	0.81 0.75 0.88	0.75 0.75 0.75	0.74 0.75 0.63	0.73 0.75 0.5	0.73 0.75 0.38	0.72 0.75 0.25	0.71 0.75 0.13	0.7 0.75 0.0	0.13 0.13 0.13	0.13 0.13 0.13	0.13 0.13 0.13	0.13 0.13 0.13
13	0.63 0.0 0.19	0.63 0.13 0.24	0.63 0.25 0.3	0.63 0.4 0.38	0.63 0.52 0.38	0.61 0.63 0.38	0.61 0.75 0.38	0.61 0.88 0.38	0.61 1.0 0.38	0.8 0.63 1.0	0.74 0.63 0.88	0.68 0.63 0.75	0.63 0.63 0.63	0.62 0.63 0.5	0.61 0.63 0.38	0.6 0.63 0.25	0.59 0.63 0.13	0.59 0.63 0.0	0.2 0.2 0.2	0.2 0.2 0.2	0.2 0.2 0.2	0.2 0.2 0.2
14	0.63 0.0 0.28	0.63 0.13 0.33	0.63 0.25 0.38	0.63 0.38 0.43	0.63 0.51 0.5	0.62 0.63 0.5	0.62 0.75 0.5	0.62 0.88 0.5	0.62 1.0 0.5	0.73 0.5 1.0	0.67 0.5 0.88	0.62 0.5 0.75	0.56 0.5 0.63	0.5 0.5 0.5	0.49 0.5 0.38	0.48 0.5 0.25	0.48 0.5 0.13	0.47 0.5 0.0	0.27 0.27 0.27	0.27 0.27 0.27	0.27 0.27 0.27	0.27 0.27 0.27
15	0.63 0.0 0.36	0.63 0.13 0.41	0.63 0.25 0.47	0.63 0.38 0.52	0.63 0.5 0.57	0.63 0.63 0.63	0.63 0.75 0.63	0.63 0.88 0.63	0.63 1.0 0.63	0.67 0.38 1.0	0.61 0.38 0.88	0.55 0.38 0.75	0.49 0.38 0.63	0.43 0.38 0.5	0.38 0.38 0.38	0.37 0.38 0.25	0.36 0.38 0.13	0.35 0.38 0.0	0.33 0.33 0.33	0.33 0.33 0.33	0.33 0.33 0.33	0.33 0.33 0.33
16	0.75 0.0 0.55	0.75 0.13 0.61	0.75 0.25 0.66	0.75 0.38 0.71	0.74 0.5 0.75	0.68 0.63 0.75	0.63 0.7 0.75	0.63 0.88 0.8	0.63 1.0 0.8	0.6 0.25 1.0	0.54 0.25 0.88	0.48 0.25 0.75	0.42 0.25 0.63	0.37 0.25 0.5	0.31 0.25 0.38	0.25 0.25 0.25	0.24 0.25 0.13	0.23 0.25 0.0	0.4 0.4 0.4	0.4 0.4 0.4	0.4 0.4 0.4	0.4 0.4 0.4
17	0.88 0.0 0.74	0.88 0.13 0.8	0.88 0.25 0.85	0.85 0.38 0.88	0.79 0.5 0.88	0.74 0.63 0.88	0.63 0.64 0.88	0.63 0.78 0.88	0.63 1.0 0.97	0.53 0.13 1.0	0.47 0.13 0.88	0.42 0.13 0.75	0.36 0.13 0.63	0.3 0.13 0.5	0.24 0.13 0.38	0.18 0.13 0.25	0.13 0.13 0.13	0.12 0.13 0.0	0.47 0.47 0.47	0.47 0.47 0.47	0.47 0.47 0.47	0.47 0.47 0.47
18	1.0 0.0 0.94	1.0 0.13 0.99	0.96 0.25 1.0	0.9 0.38 1.0	0.85 0.5 1.0	0.8 0.63 1.0	0.67 0.63 1.0	0.63 0.72 1.0	0.63 0.86 1.0	0.46 0.0 1.0	0.41 0.0 0.88	0.35 0.0 0.75	0.29 0.0 0.63	0.23 0.0 0.5	0.17 0.0 0.38	0.12 0.0 0.25	0.06 0.0 0.13	0.0 0.0 0.0	0.53 0.53 0.53	0.53 0.53 0.53	0.53 0.53 0.53	0.53 0.53 0.53
19	1.0 0.09 0.0	1.0 0.21 0.0	1.0 0.33 0.0	1.0 0.45 0.0	1.0 0.58 0.0	1.0 0.7 0.0	1.0 0.82 0.0	1.0 0.94 0.0	0.94 1.0 0.0	1.0 1.0 1.0	0.88 1.0 0.88	0.75 1.0 0.75	0.63 1.0 0.63	0.5 1.0 0.5	0.38 1.0 0.38	0.25 1.0 0.25	0.13 1.0 0.13	0.0 1.0 0.0	0.6 0.6 0.6	0.6 0.6 0.6	0.6 0.6 0.6	0.6 0.6 0.6
20	1.0 0.01 0.0	1.0 0.2 0.13	1.0 0.32 0.13	1.0 0.45 0.13	1.0 0.57 0.13	1.0 0.69 0.13	1.0 0.81 0.13	1.0 0.94 0.13	0.94 1.0 0.13	1.0 0.88 0.95	0.88 0.88 0.88	0.75 0.88 0.75	0.63 0.88 0.63	0.5 0.88 0.5	0.38 0.88 0.38	0.25 0.88 0.25	0.13 0.88 0.13	0.0 0.88 0.0	0.67 0.67 0.67	0.67 0.67 0.67	0.67 0.67 0.67	0.67 0.67 0.67
21	1.0 0.0 0.07	1.0 0.13 0.13	1.0 0.31 0.25	1.0 0.44 0.25	1.0 0.56 0.25	1.0 0.68 0.25	1.0 0.8 0.25	1.0 0.93 0.25	0.95 1.0 0.25	1.0 0.75 0.89	0.88 0.75 0.82	0.75 0.75 0.75	0.63 0.75 0.63	0.5 0.75 0.5	0.38 0.75 0.38	0.25 0.75 0.25	0.13 0.75 0.13	0.0 0.75 0.0	0.73 0.73 0.73	0.73 0.73 0.73	0.73 0.73 0.73	0.73 0.73 0.73
22	1.0 0.0 0.15	1.0 0.13 0.21	1.0 0.25 0.26	1.0 0.43 0.38	1.0 0.55 0.38	1.0 0.67 0.38	1.0 0.8 0.38	1.0 0.92 0.38	0.96 1.0 0.38	1.0 0.63 0.84	0.88 0.63 0.77	0.75 0.63 0.7	0.63 0.63 0.63	0.5 0.63 0.5	0.38 0.63 0.38	0.25 0.63 0.25	0.13 0.63 0.13	0.0 0.63 0.0	0.8 0.8 0.8	0.8 0.8 0.8	0.8 0.8 0.8	0.8 0.8 0.8
23	1.0 0.0 0.24	1.0 0.13 0.29	1.0 0.25 0.34	1.0 0.38 0.4	1.0 0.54 0.5	1.0 0.67 0.5	1.0 0.79 0.5	1.0 0.91 0.5	0.97 1.0 0.5	1.0 0.5 0.79	0.88 0.5 0.72	0.75 0.5 0.64	0.63 0.5 0.57	0.5 0.5 0.5	0.38 0.5 0.38	0.25 0.5 0.25	0.13 0.5 0.13	0.0 0.5 0.0	0.87 0.87 0.87	0.87 0.87 0.87	0.87 0.87 0.87	0.87 0.87 0.87
24	1.0 0.0 0.32	1.0 0.13 0.38	1.0 0.25 0.43	1.0 0.38 0.48	1.0 0.5 0.53	1.0 0.66 0.63	1.0 0.78 0.63	1.0 0.9 0.63	0.98 1.0 0.63	1.0 0.38 0.74	0.88 0.38 0.66	0.75 0.38 0.59	0.63 0.38 0.52	0.5 0.38 0.45	0.38 0.38 0.38	0.25 0.38 0.25	0.13 0.38 0.13	0.0 0.38 0.0	0.93 0.93 0.93	0.93 0.93 0.93	0.93 0.93 0.93	0.93 0.93 0.93
25	1.0 0.0 0.41	1.0 0.13 0.46	1.0 0.25 0.51	1.0 0.38 0.57	1.0 0.5 0.62	1.0 0.63 0.67	1.0 0.77 0.75	1.0 0.89 0.75	0.98 1.0 0.75	1.0 0.25 0.68	0.88 0.25 0.61	0.75 0.25 0.54	0.63 0.25 0.47	0.5 0.25 0.39	0.38 0.25 0.32	0.25 0.25 0.25	0.13 0.25 0.13	0.0 0.25 0.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0
26	1.0 0.0 0.49	1.0 0.13 0.55	1.0 0.25 0.6	1.0 0.38 0.65	1.0 0.5 0.7	1.0 0.63 0.76	1.0 0.75 0.81	1.0 0.89 0.88	0.99 1.0 0.88	1.0 0.13 0.63	0.88 0.13 0.56	0.75 0.13 0.49	0.63 0.13 0.41	0.5 0.13 0.34	0.38 0.13 0.27	0.25 0.13 0.2	0.13 0.13 0.13	0.0 0.13 0.0	0.0 0.0 0.0	1.0 0.09 0.0	0.94 1.0 0.0	0.0 1.0 0.0
27	1.0 0.0 0.58	1.0 0.13 0.63	1.0 0.25 0.68	1.0 0.38 0.74	1.0 0.5 0.79	1.0 0.63 0.84	1.0 0.75 0.89	1.0 0.88 0.95	1.0 1.0 1.0	1.0 0.0 0.58	0.88 0.0 0.51	0.75 0.0 0.43	0.63 0.0 0.36	0.5 0.0 0.29	0.38 0.0 0.22	0.25 0.0 0.14	0.13 0.0 0.07	0.0 0.0 0.0	1.0 1.0 1.0	0.0 0.62 1.0	0.46 0.0 1.0	1.0 0.0 0.58

See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

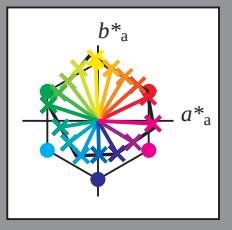
BAM registration: 20081001-Ee12/10L/L12E00NP.PS/ .PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

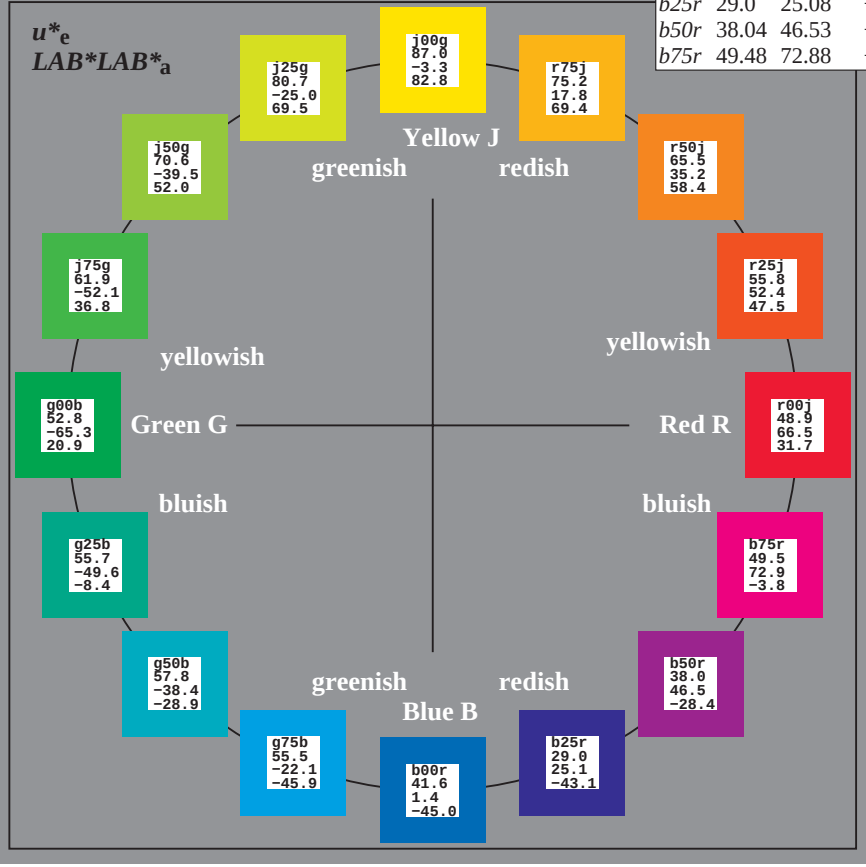
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

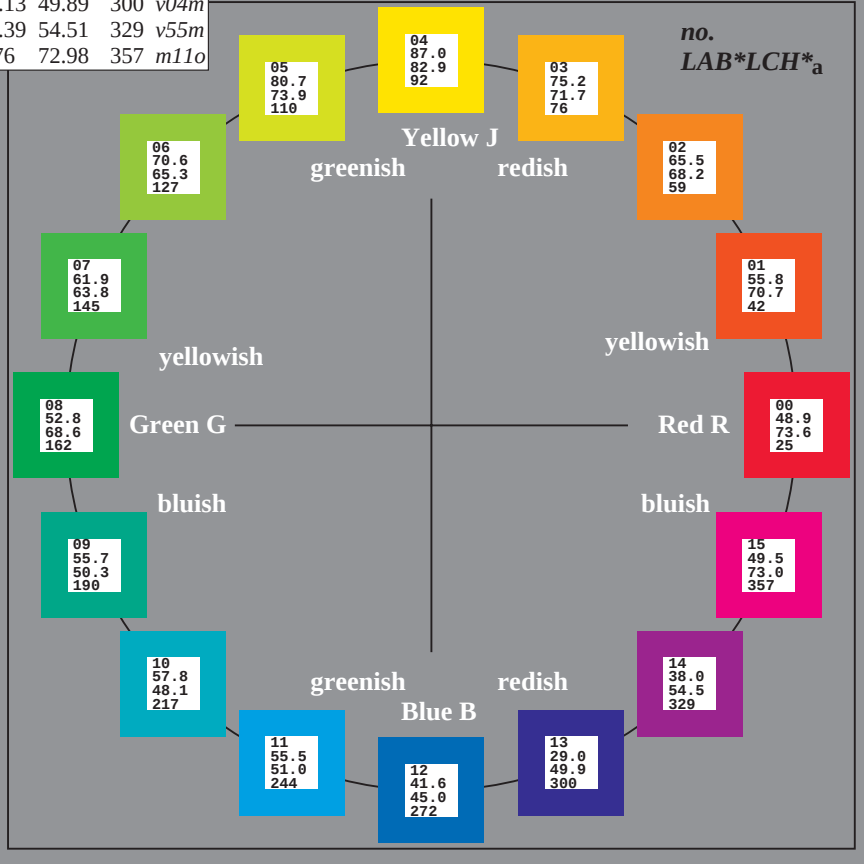


%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

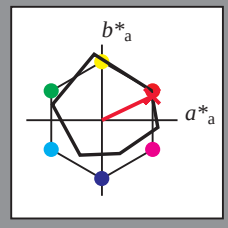
Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

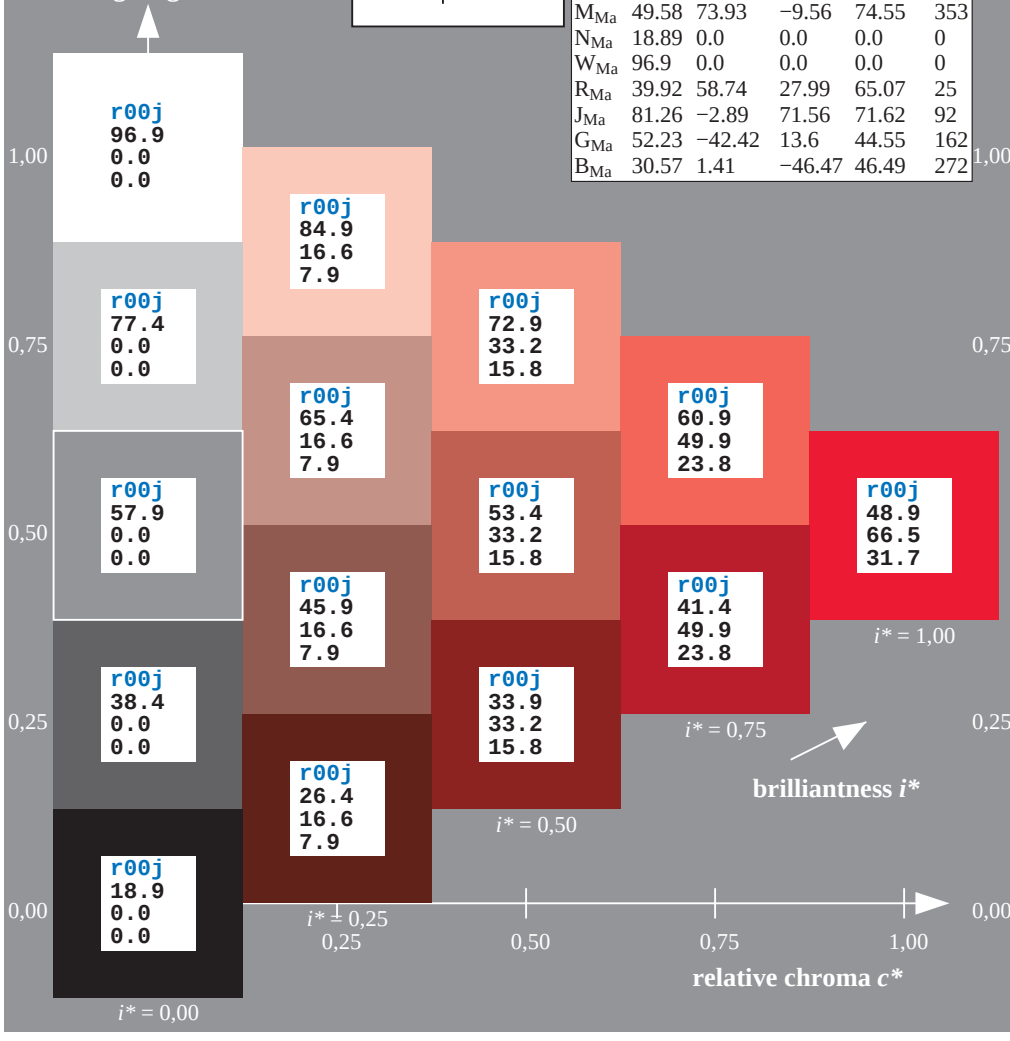
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15
triangle lightness *t**

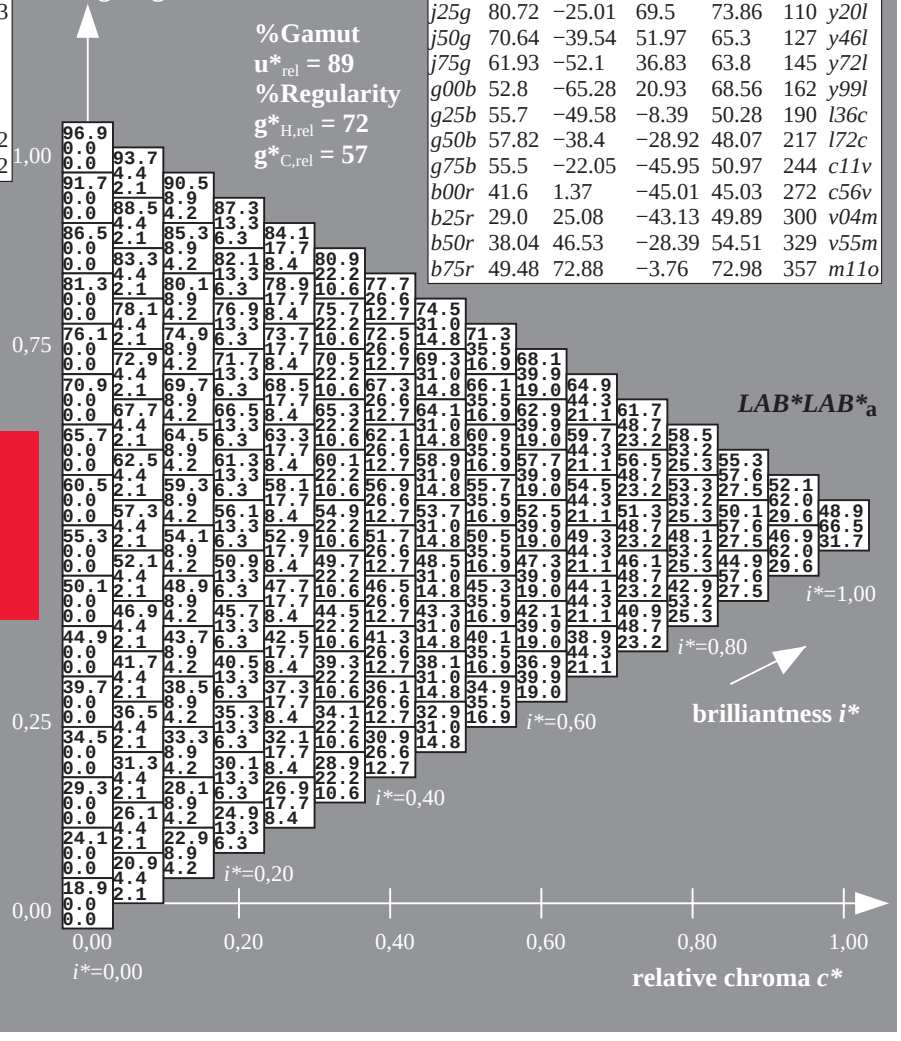
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r00j*
*LAB*LAB**$_a$

ORS19_96a; adapted (a) CIELAB data

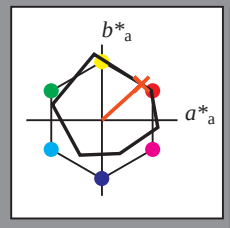
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

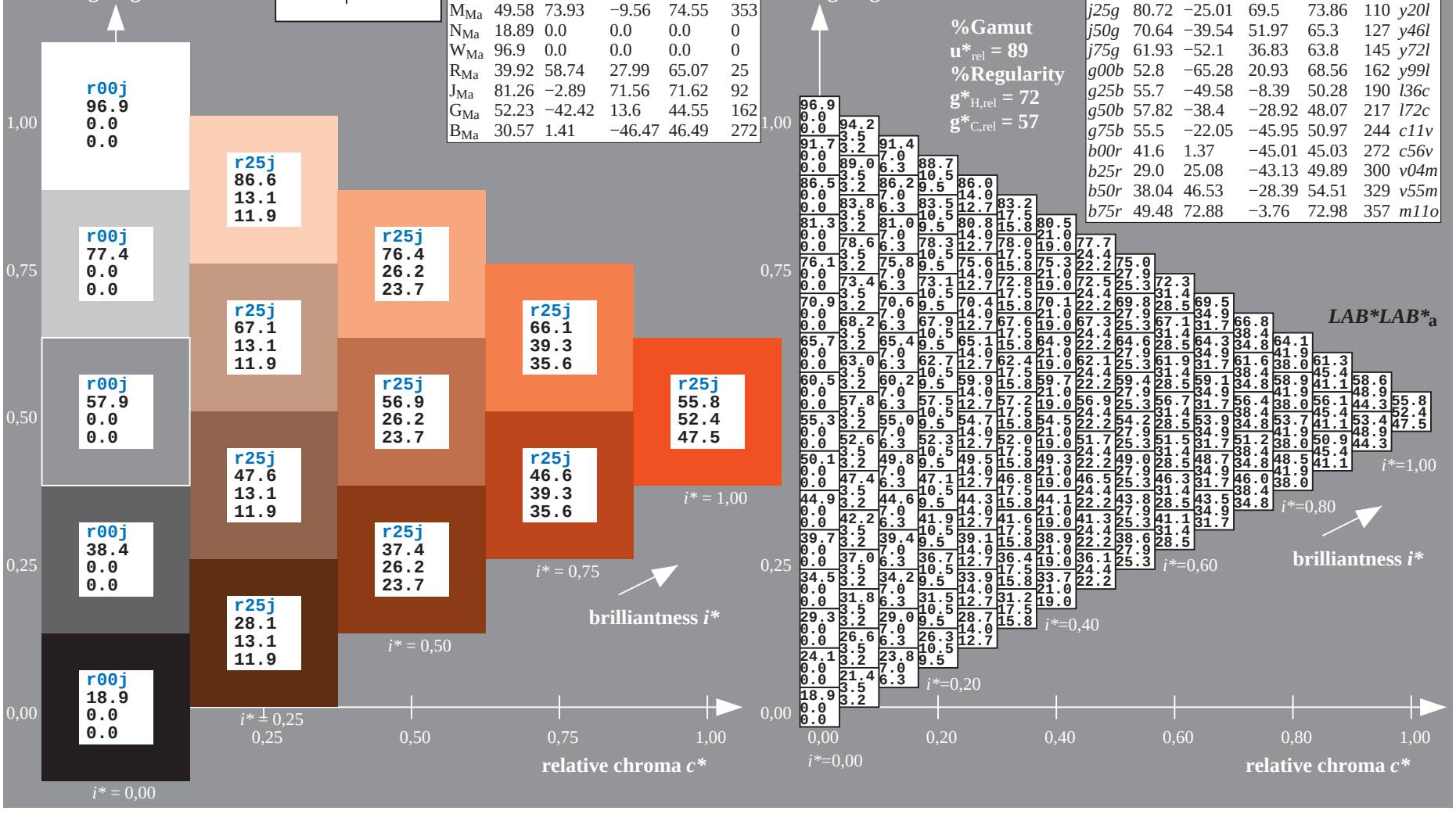
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r25j*
*LAB*LAB**$_a$

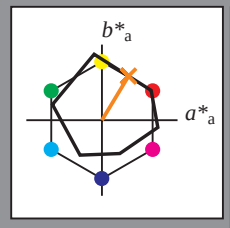
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = r50j$ $u^*_d = o42y$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

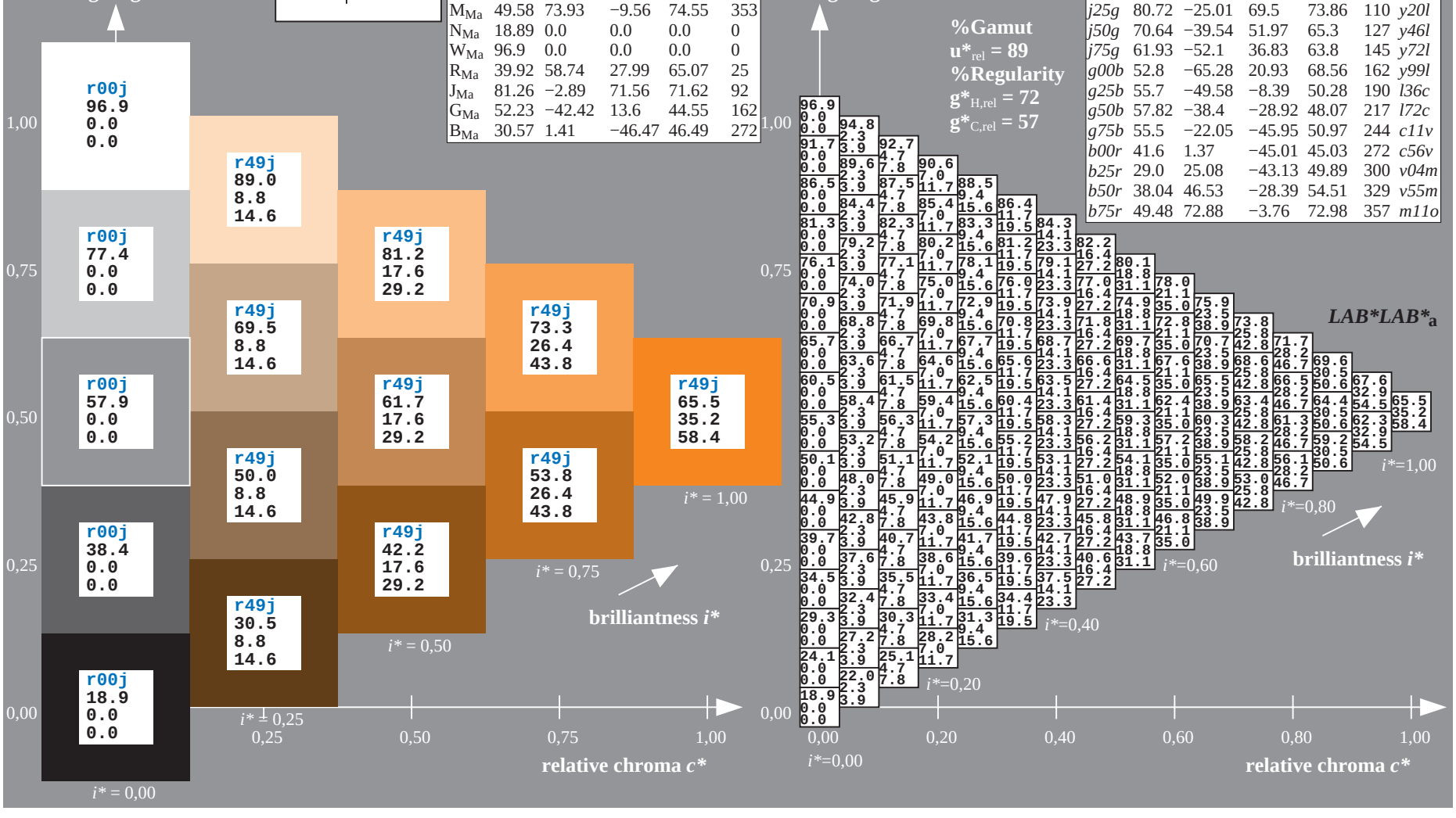
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 65 35 58
*LAB*LCH**$_{Ma}$: 65 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.42 0.0
triangle lightness *t**

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = r50j$
LAB*LAB*a

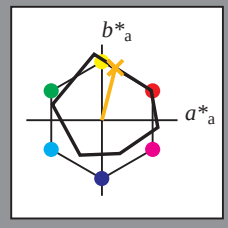
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

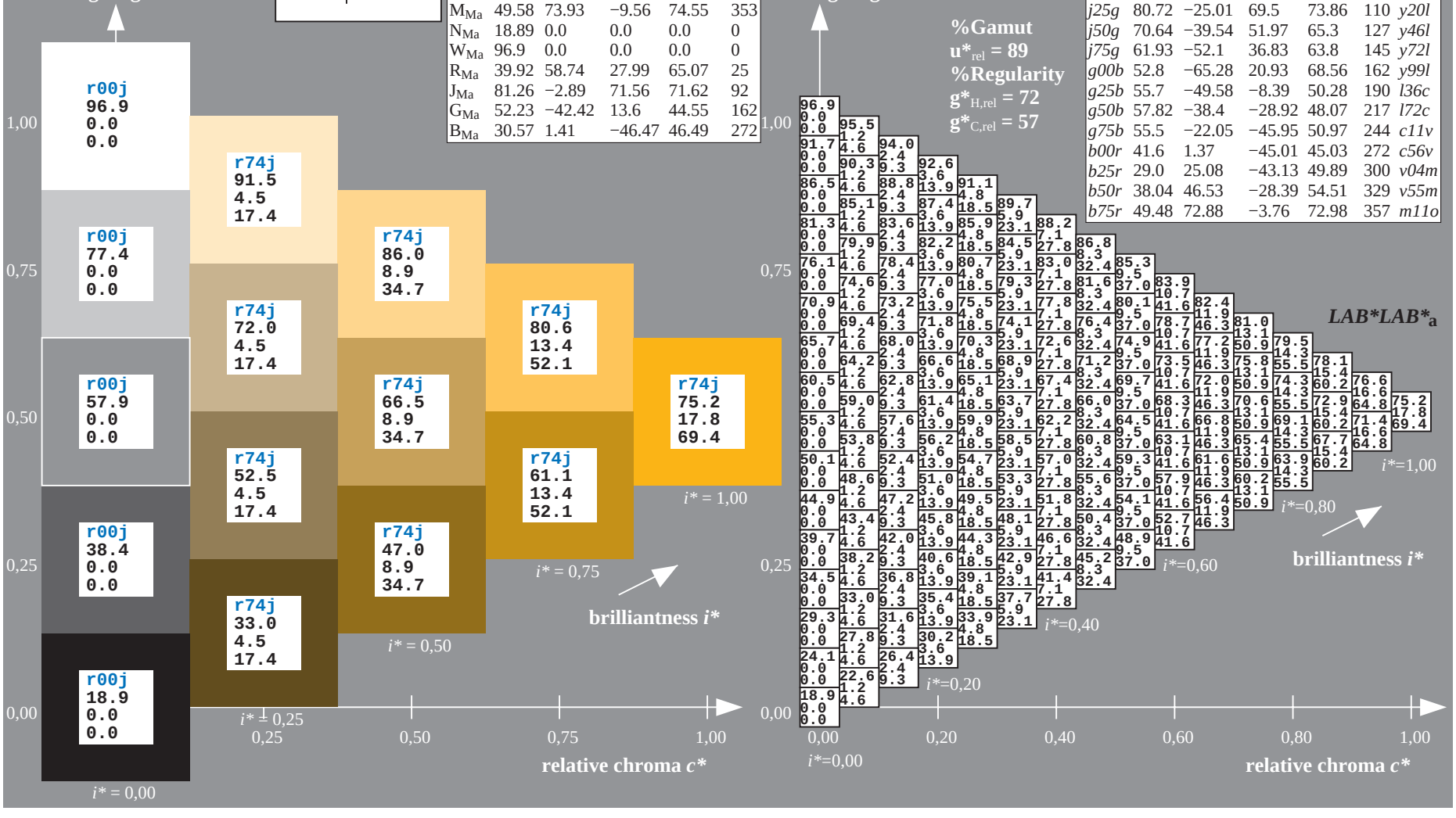
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.68 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

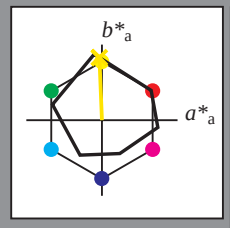
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

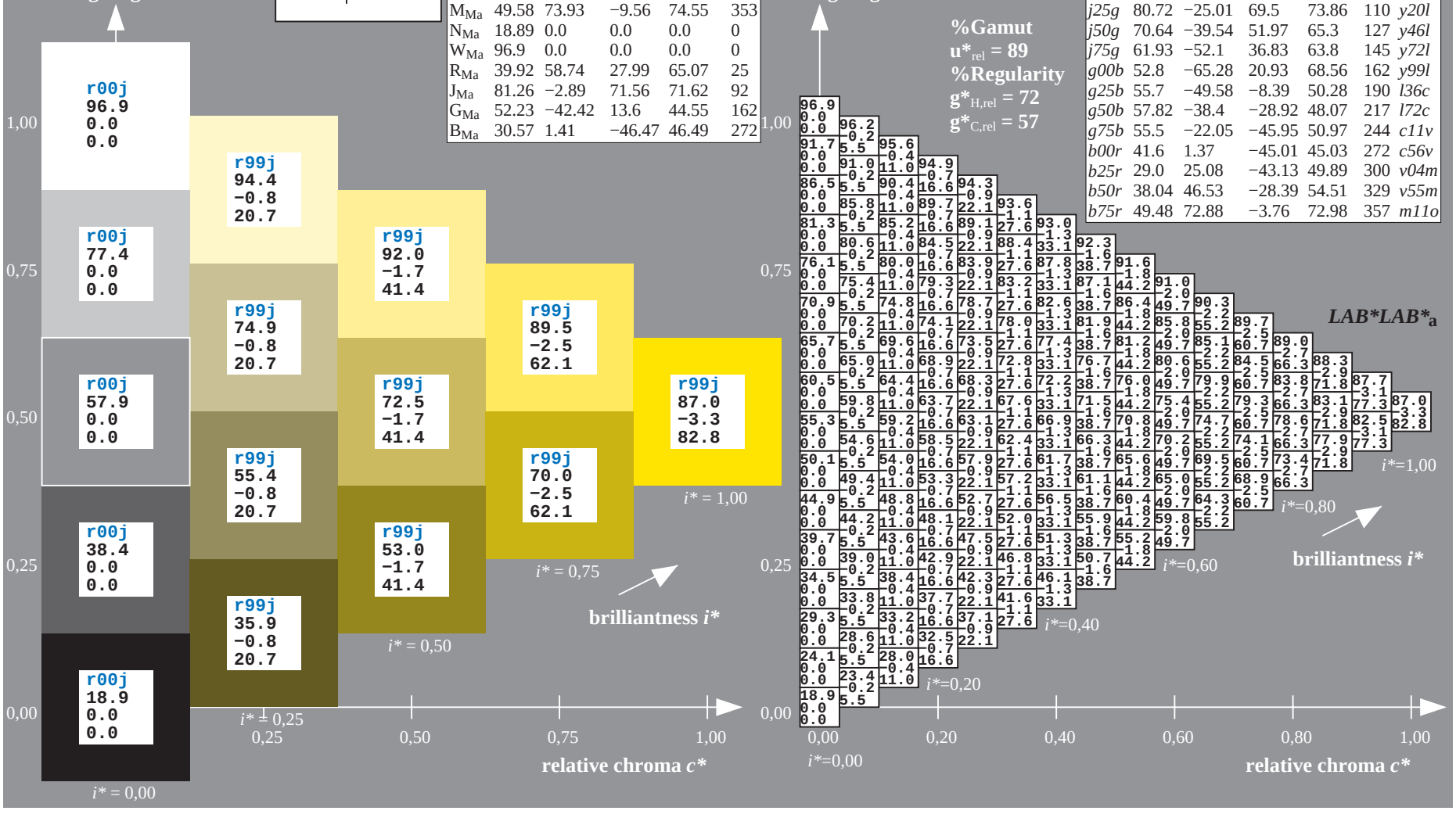
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *j00g*
LAB*LAB*a

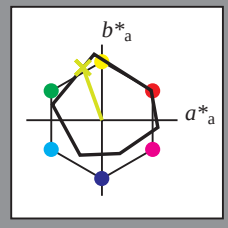
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = $h_{ab}/360$ = 0.305**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

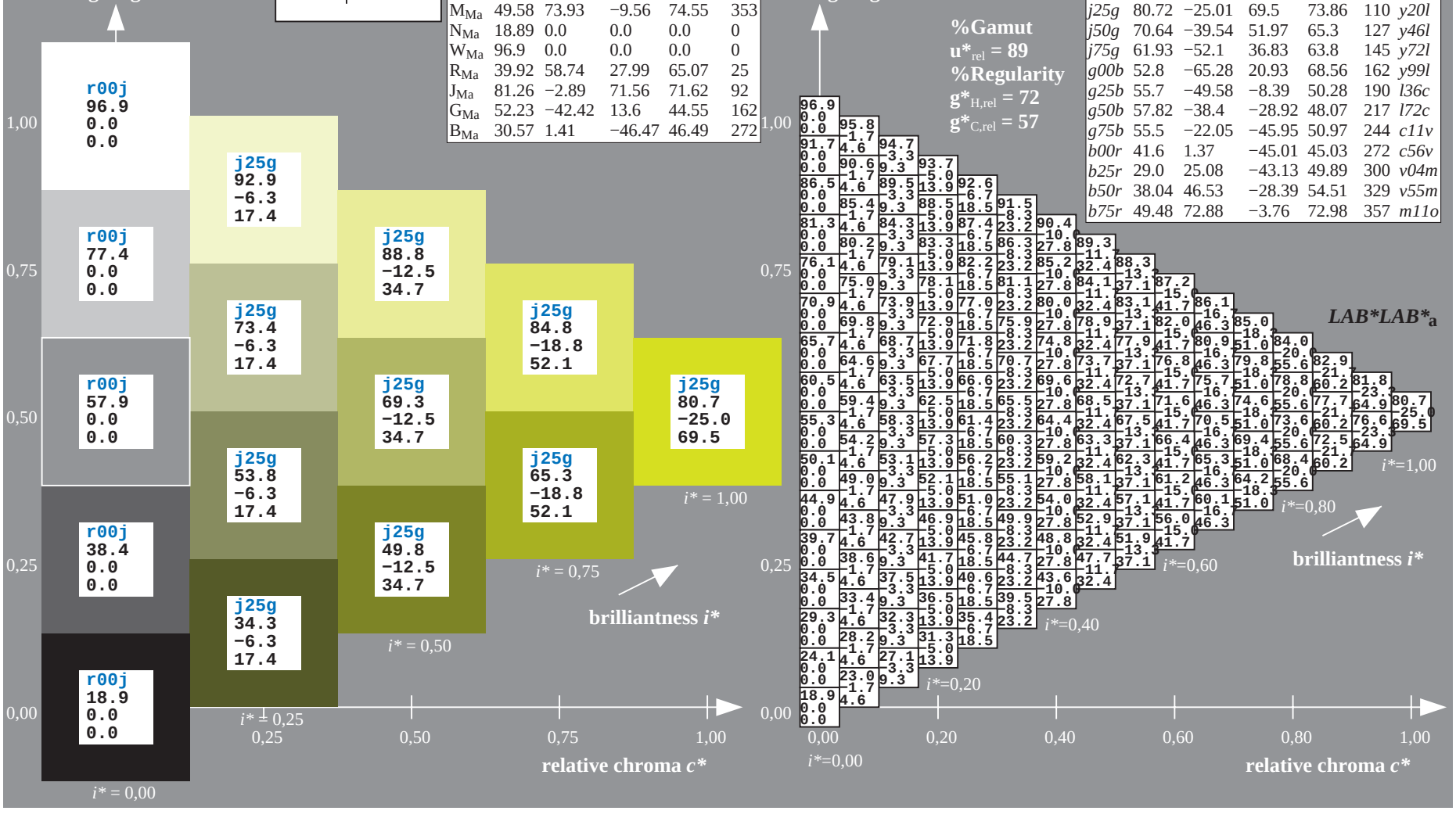
	*u**e	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

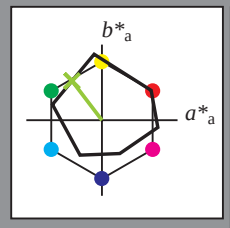
ORS19_96a; adapted (a) CIELAB data

*u**e	*L**=*L**a	*a**a	*b**a	*C**ab,a	*h**ab,a	*u**d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

	*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

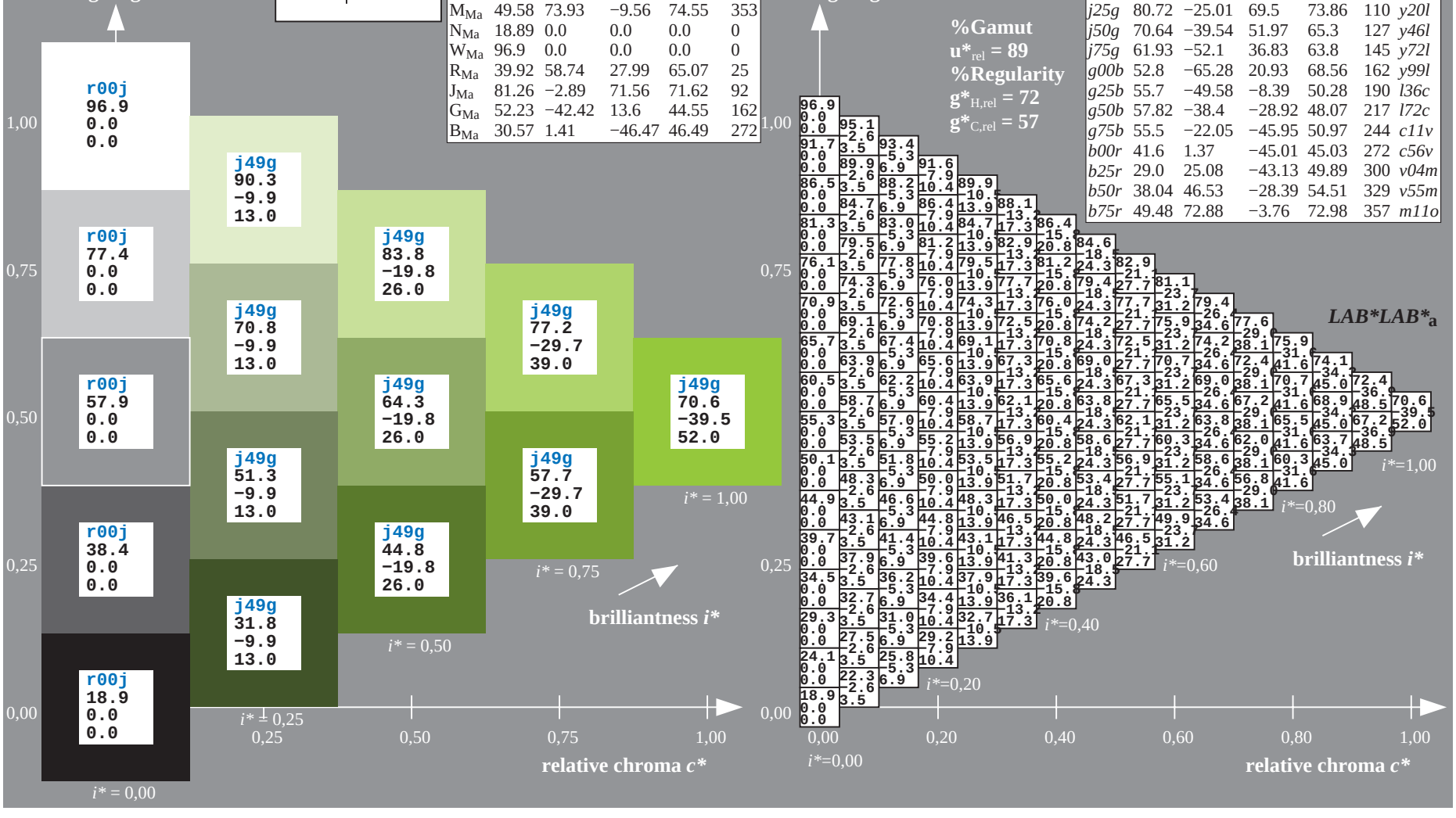
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 71 −40 52**
LAB*LCH*$_{Ma}$**: 71 65 127**
lab*rgb*$_{Ma}$**: 0.5 1.0 0.0**
lab*olv*$_{Ma}$**: 0.54 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e* = *j50g
LAB*LAB*a**

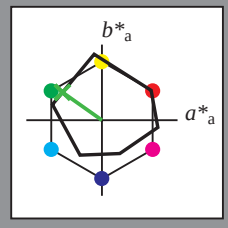
ORS19_96a; adapted (a) CIELAB data

*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

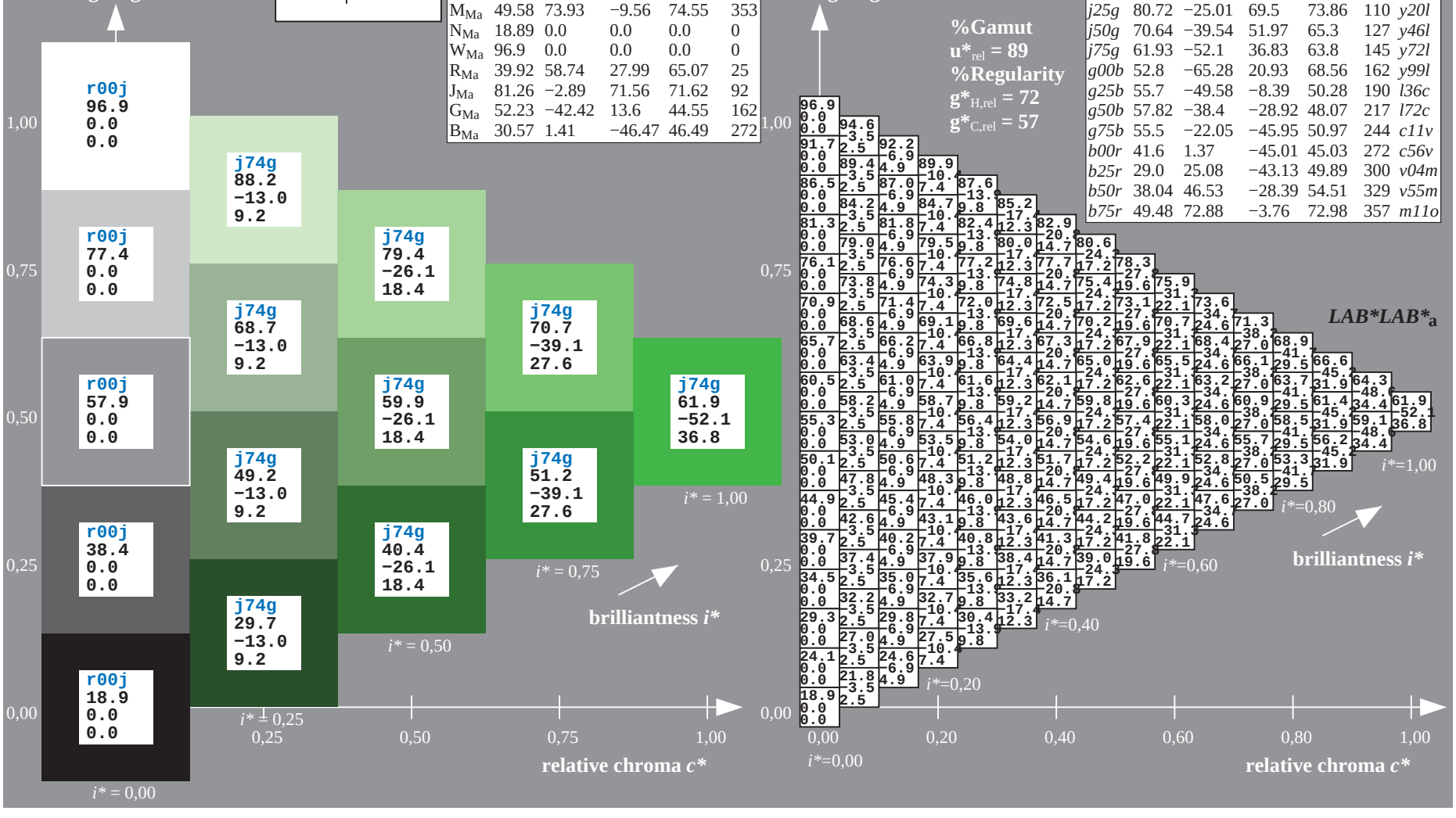
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

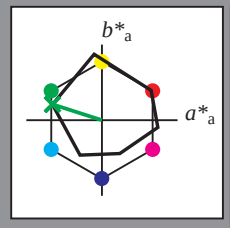
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g00b$ $u^*_d = y99l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

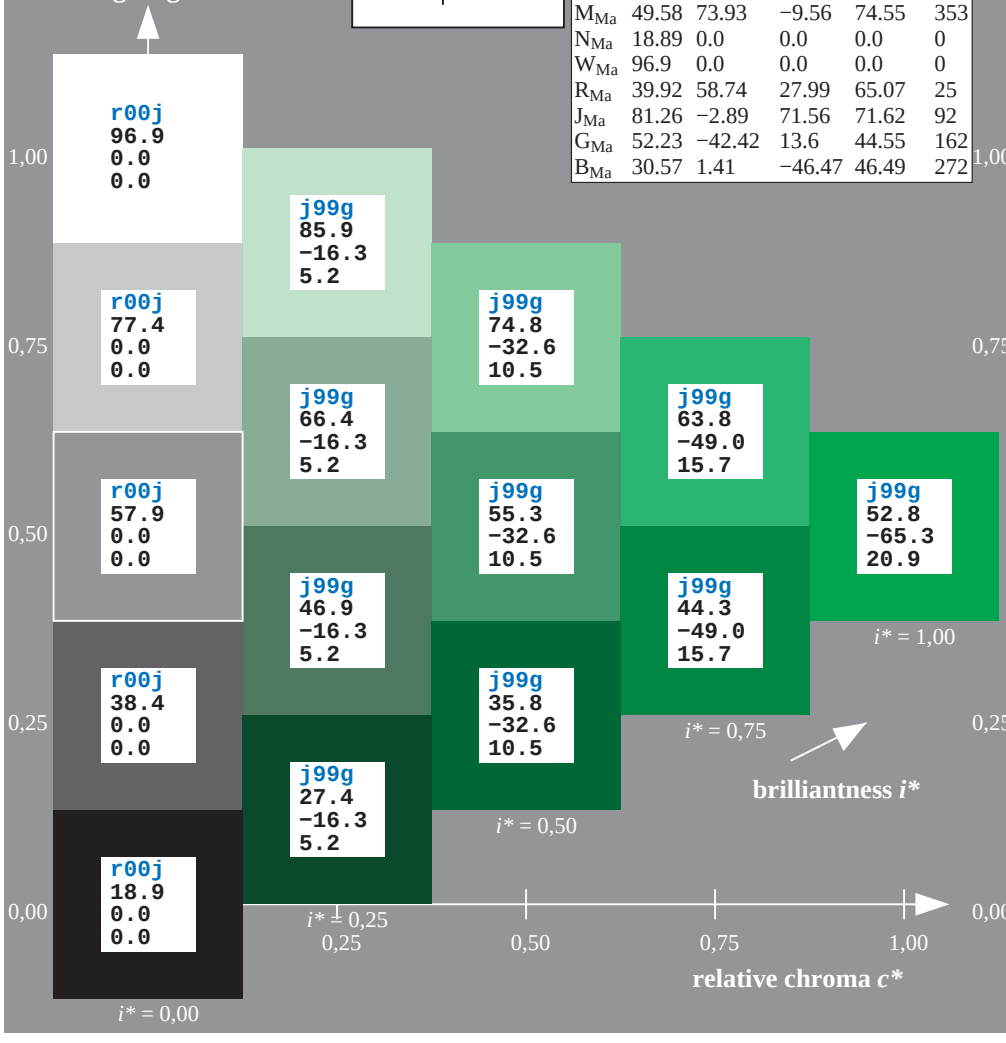
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

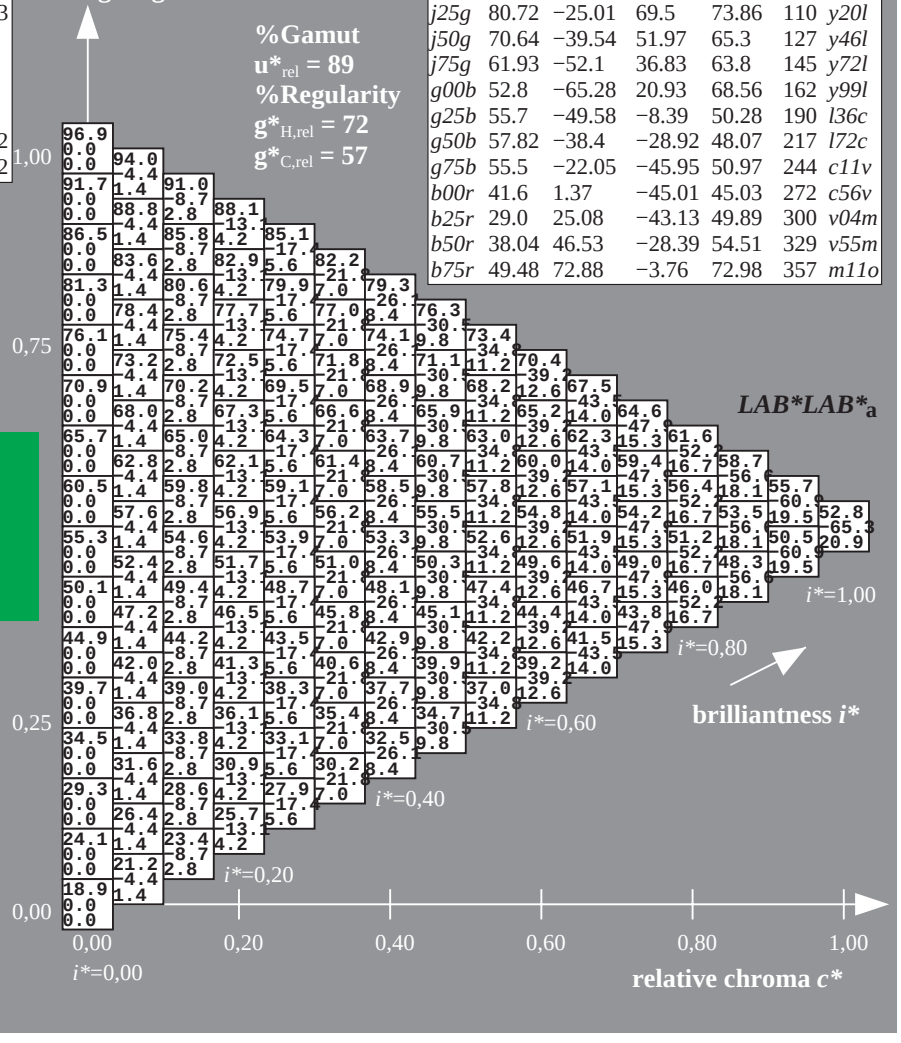
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

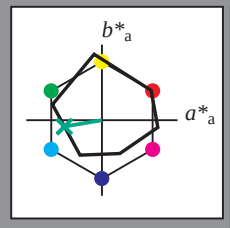
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.527**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

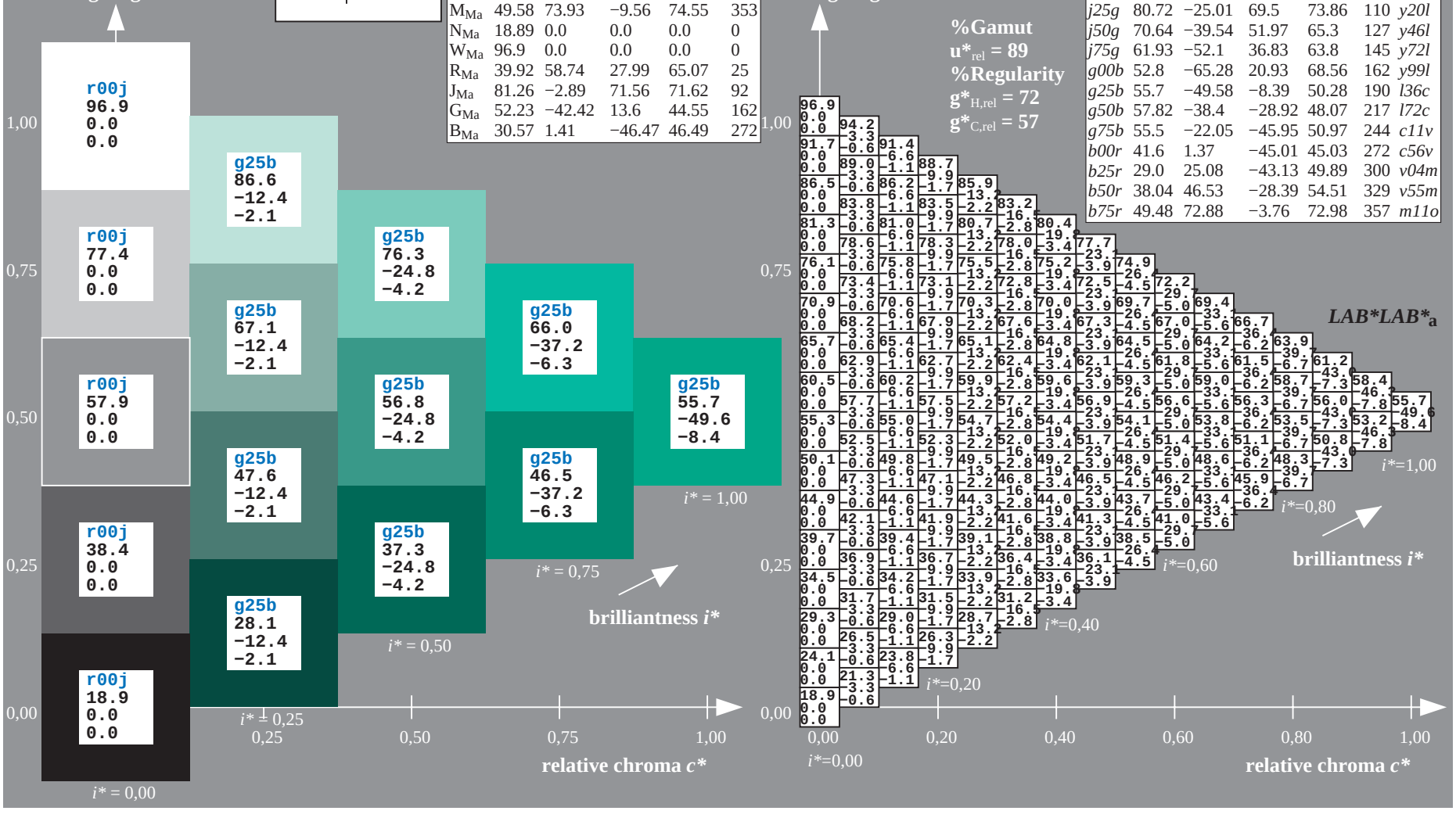
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 −50 −8
*LAB*LCH**$_{Ma}$: 56 50 189
*lab*rgb**$_{Ma}$: 0.0 1.0 0.5
*lab*olv**$_{Ma}$: 0.0 1.0 0.36
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

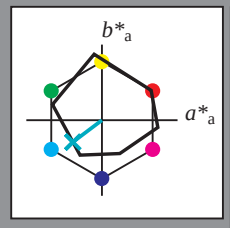
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.603**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g50b* u^*_d = *l72c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

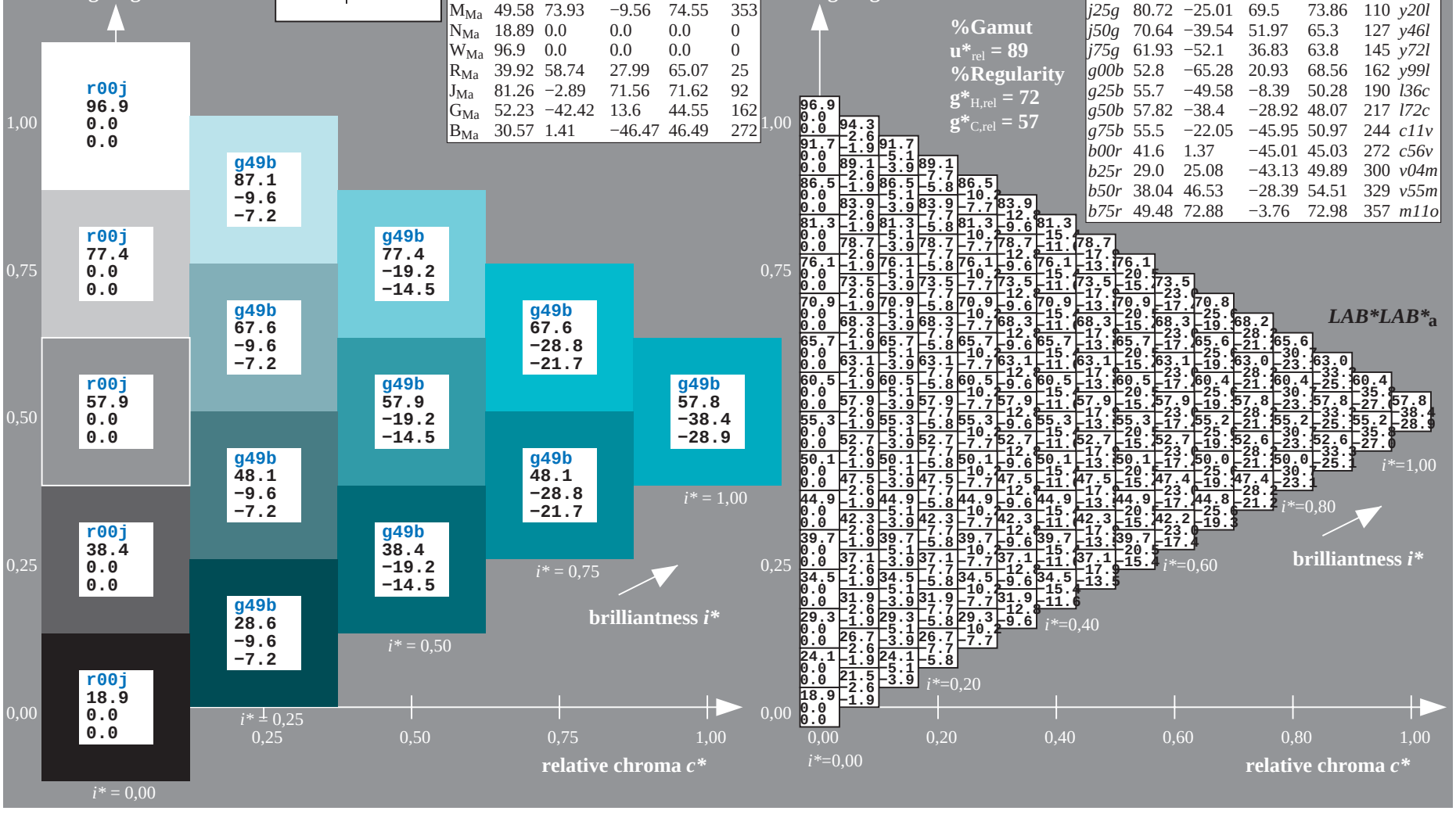
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 58 −38 −29
*LAB*LCH**$_{Ma}$: 58 48 216
*lab*rgb**$_{Ma}$: 0.0 1.0 1.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.72
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

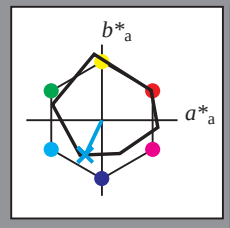
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.679**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g75b* u^*_d = *c11v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

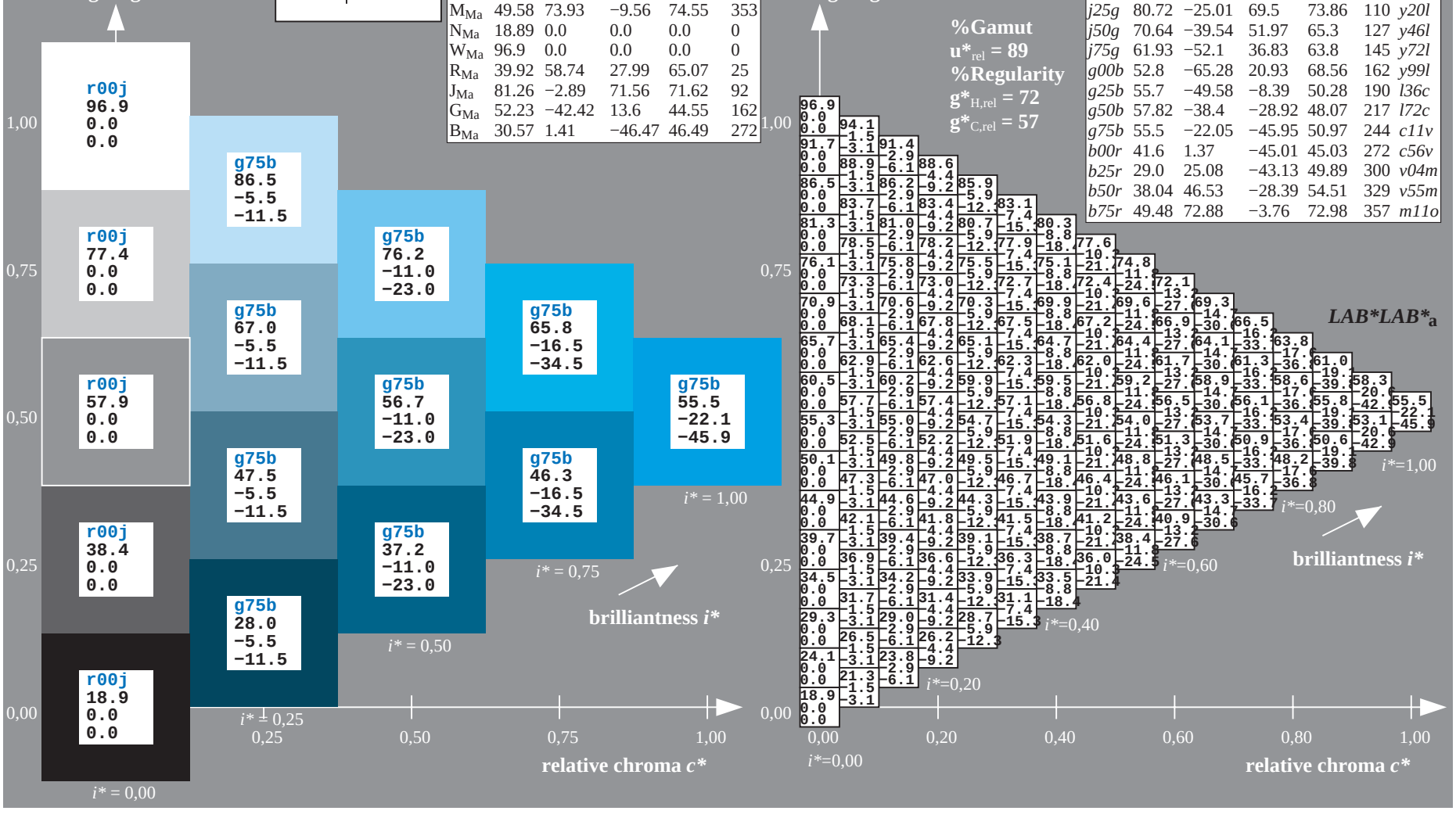
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 55 −22 −46
*LAB*LCH**$_{Ma}$: 55 51 244
*lab*rgb**$_{Ma}$: 0.0 0.5 1.0
*lab*olv**$_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g75b*
*LAB*LAB**$_a$

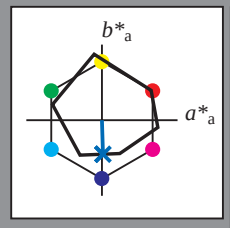
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

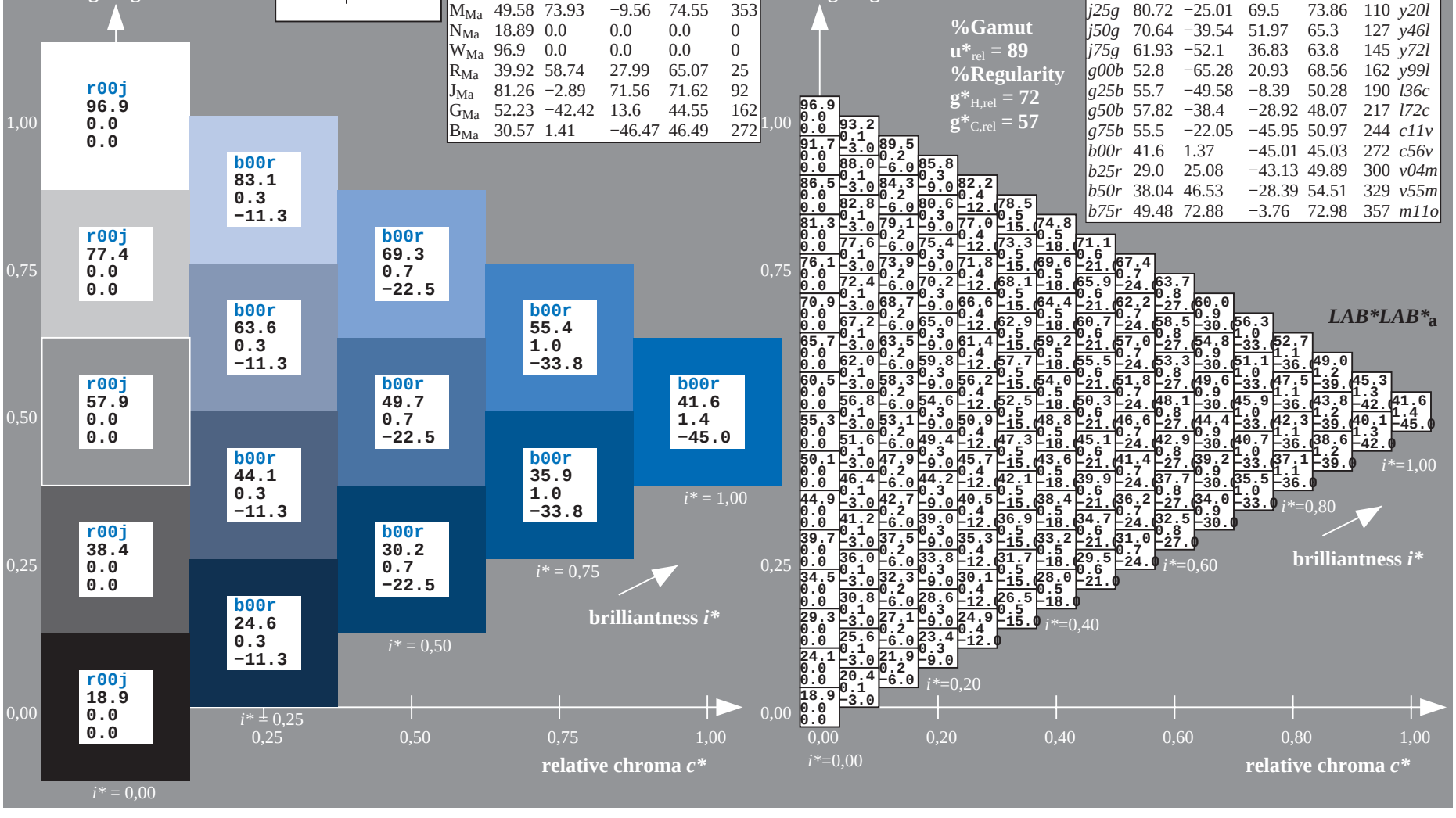
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 1 −45
*LAB*LCH**$_{Ma}$: 42 45 271
*lab*rgb**$_{Ma}$: 0.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.0 0.44 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b00r*
LAB*LAB*a

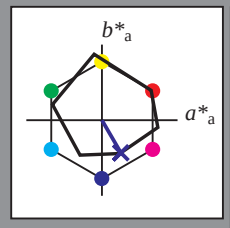
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = b25r$ $u^*_d = v04m$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

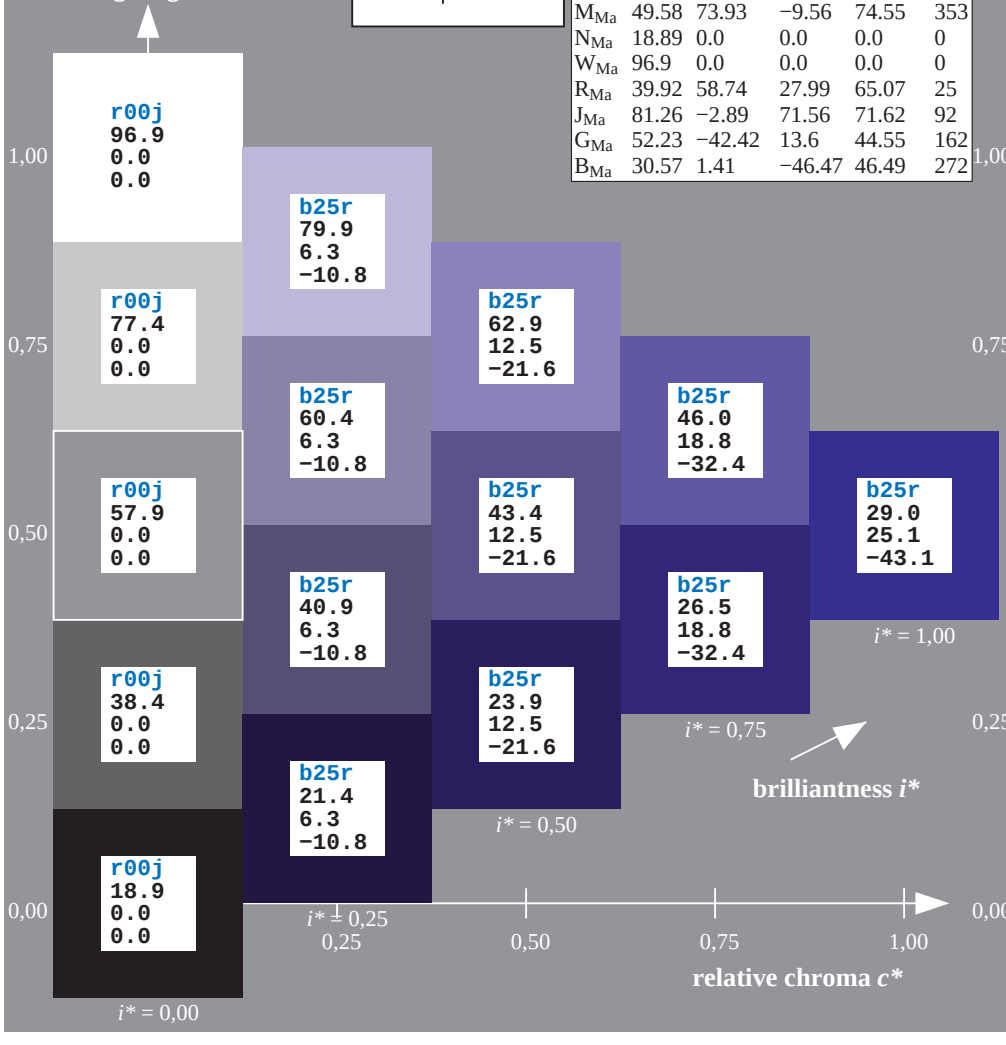
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 29 25 −43
$LAB^*LCH^*_{Ma}$: 29 50 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*olv^*_{Ma}$: 0.04 0.0 1.0
triangle lightness t^*

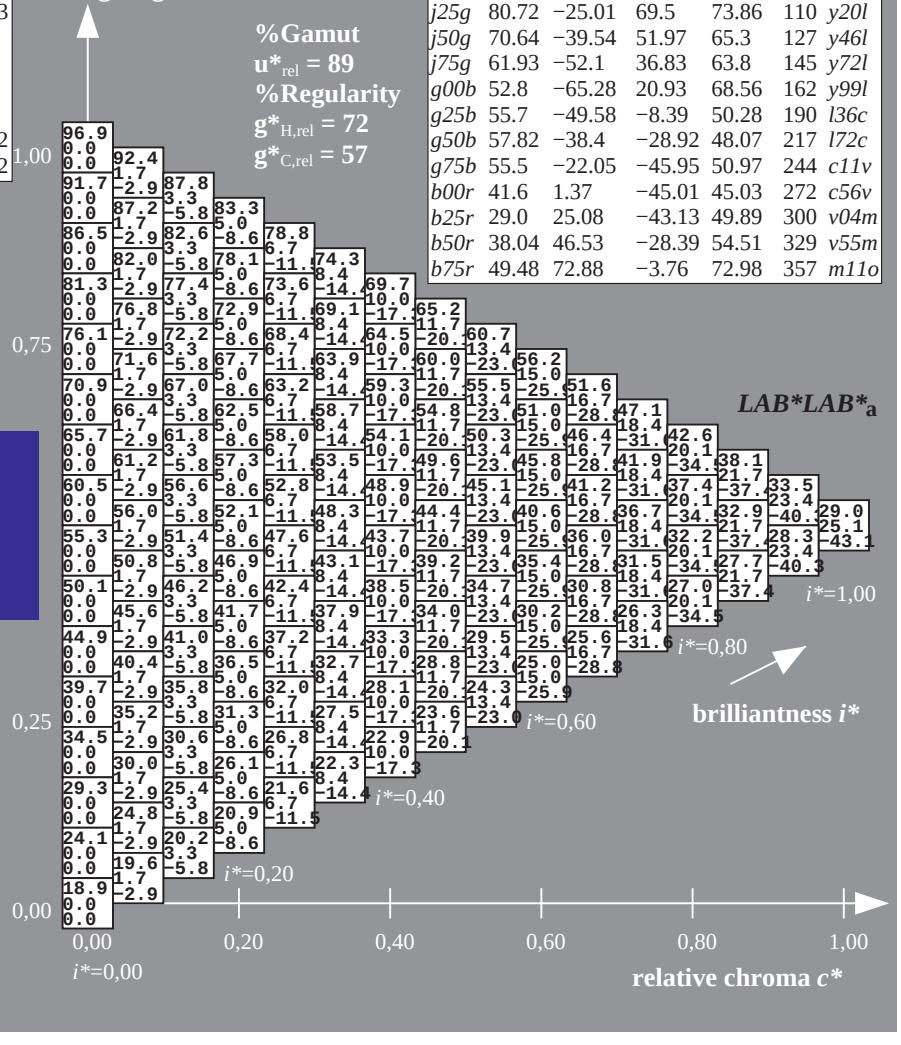
%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = b25r$
$LAB^*LAB^*_a$

ORS19_96a; adapted (a) CIELAB data

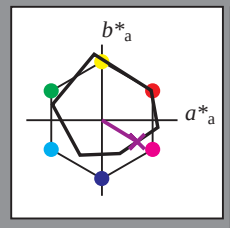
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

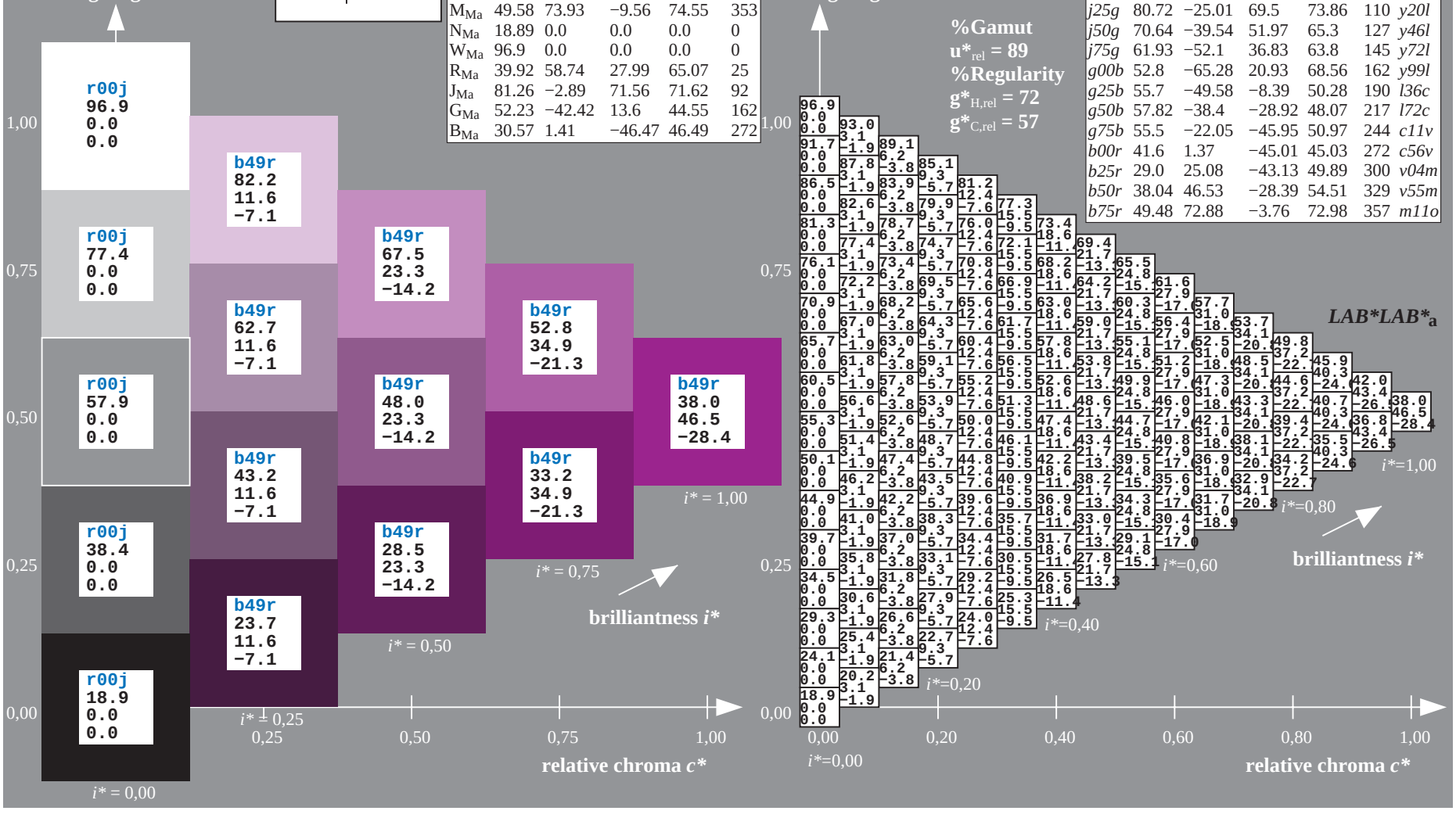
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 47 −28
*LAB*LCH**$_{Ma}$: 38 55 328
*lab*rgb**$_{Ma}$: 1.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.56 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

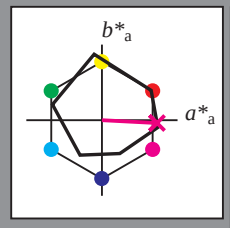
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

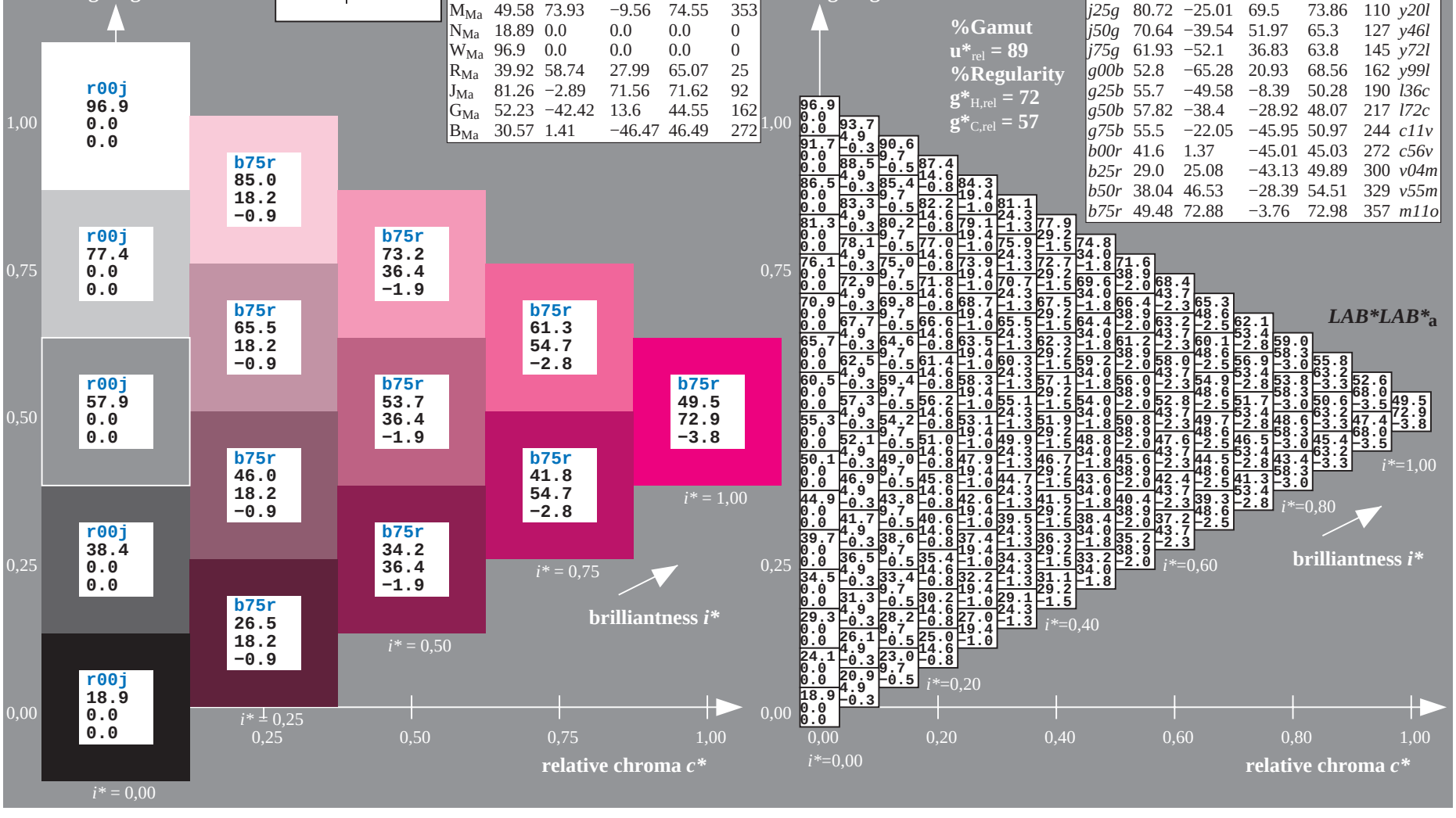
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 49 73 −4
LAB*LCH*$_{Ma}$: 49 73 357
lab*rgb*$_{Ma}$: 1.0 0.0 0.5
lab*olv*$_{Ma}$: 1.0 0.0 0.89
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b75r*
LAB*LAB*$^*_a$

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	b	c	d	e	f	g	h	i	j	k	LAB*LAB*a		
01	18.9	23.1	27.3	31.6	35.8	40.0	44.2	48.5	52.7	22.6	27.9	31.5	35.8	40.1	44.4	48.6	52.9	57.2	26.4	31.2	36.9	40.1	44.2	48.4	52.7	57.0	61.3	96.9	90.9	84.9	78.8	72.8	66.8	60.8	54.8	48.7	18.9	18.9	18.9	18.9
	0.0	-8.2	-16.4	-24.5	-32.7	-40.9	-49.1	-57.3	-65.4	8.1	-1.3	-10.3	-18.4	-26.5	-34.6	-42.7	-50.8	-59.0	16.3	7.5	-2.6	-12.3	-20.6	-28.7	-36.8	-44.9	-53.0	0.0	8.1	16.3	24.4	32.5	40.7	48.8	56.9	65.1	0.0	0.0	0.0	0.0
	0.0	2.6	5.2	7.8	10.4	13.0	15.6	18.2	20.7	4.9	10.9	12.5	15.2	17.9	20.6	23.2	25.9	28.5	9.9	15.4	21.8	22.5	25.0	27.6	30.3	33.1	35.8	0.0	4.9	9.9	14.8	19.7	24.6	29.6	34.5	39.4	0.0	0.0	0.0	0.0
02	20.1	24.0	28.3	32.6	36.9	41.2	45.5	49.7	54.0	22.7	28.6	32.9	37.1	41.3	45.5	49.8	54.0	58.2	26.5	32.4	37.6	41.3	45.6	49.9	54.1	58.4	62.7	92.2	87.1	81.1	75.1	69.1	63.1	57.1	51.0	45.0	28.6	28.6	28.6	28.6
	3.0	-3.6	-11.3	-18.9	-26.7	-34.7	-42.6	-50.7	-58.7	9.2	0.0	-8.2	-16.4	-24.5	-32.7	-40.9	-49.1	-57.3	17.4	8.1	-1.3	-10.3	-18.4	-26.5	-34.6	-42.7	-50.8	-3.6	0.0	8.1	16.3	24.4	32.5	40.7	48.8	56.9	0.0	0.0	0.0	0.0
	-5.5	-5.8	-4.1	-2.5	-0.6	1.5	3.7	6.0	8.4	-1.2	0.0	2.6	5.2	7.8	10.4	13.0	15.6	18.2	3.7	4.9	10.9	12.5	15.2	17.9	20.6	23.2	25.9	-5.8	0.0	4.9	9.9	14.8	19.7	24.6	29.6	34.5	0.0	0.0	0.0	0.0
03	21.3	25.0	29.1	33.4	37.7	42.1	46.4	50.7	55.0	23.4	29.8	33.7	38.1	42.4	46.7	51.0	55.2	59.5	26.6	32.5	38.4	42.6	46.8	51.1	55.3	59.5	63.7	87.6	82.5	77.4	71.4	65.4	59.3	53.3	47.3	41.3	38.4	38.4	38.4	38.4
	5.9	-0.4	-7.2	-15.0	-22.6	-30.2	-37.9	-45.6	-53.5	11.0	3.0	-3.6	-11.3	-18.9	-26.7	-34.7	-42.6	-50.7	18.5	9.2	0.0	-8.2	-16.4	-24.5	-32.7	-40.9	-49.1	-7.2	-3.6	0.0	8.1	16.3	24.4	32.5	40.7	48.8	0.0	0.0	0.0	0.0
	-11.0	-11.3	-11.6	-9.7	-8.3	-6.7	-5.0	-3.2	-1.2	-7.6	-5.5	-5.8	-4.1	-2.5	-0.6	1.5	3.7	6.0	-2.4	-1.2	0.0	2.6	5.2	7.8	10.4	13.0	15.6	-11.6	-5.8	0.0	4.9	9.9	14.8	19.7	24.6	29.6	0.0	0.0	0.0	0.0
04	22.5	26.3	29.9	34.2	38.4	42.8	47.1	51.5	55.8	24.5	31.0	34.8	38.8	43.1	47.5	51.8	56.1	60.4	26.9	33.1	39.6	43.5	47.8	52.1	56.4	60.7	65.0	82.9	77.8	72.7	67.6	61.6	55.6	49.6	43.6	37.6	48.1	48.1	48.1	48.1
	8.9	2.4	-3.6	-10.9	-18.8	-26.3	-33.8	-41.4	-49.1	13.8	5.9	-0.4	-7.2	-15.0	-22.6	-30.2	-37.9	-45.6	19.4	11.0	3.0	-3.6	-11.3	-18.9	-26.7	-34.7	-42.6	-10.9	-7.2	-3.6	0.0	8.1	16.3	24.4	32.5	40.7	0.0	0.0	0.0	0.0
	-16.5	-16.8	-17.0	-17.3	-15.2	-13.8	-12.4	-10.9	-9.3	-13.2	-11.0	-11.3	-11.6	-9.7	-8.3	-6.7	-5.0	-3.2	-9.3	-7.6	-5.5	-5.8	-4.1	-2.5	-0.6	1.5	3.7	-17.3	-11.6	-5.8	0.0	4.9	9.9	14.8	19.7	24.6	0.0	0.0	0.0	0.0
05	23.6	27.6	31.1	34.8	39.2	43.5	47.8	52.2	56.5	25.7	32.2	36.0	39.6	43.9	48.2	52.5	56.9	61.2	27.9	34.3	40.8	44.5	48.6	52.9	57.2	61.6	65.9	78.3	73.2	68.1	63.0	57.9	51.9	45.9	39.8	33.8	57.9	57.9	57.9	57.9
	11.8	5.2	-0.8	-7.0	-14.5	-22.5	-30.1	-37.6	-45.1	16.7	8.9	2.4	-3.6	-10.9	-18.8	-26.3	-33.8	-41.4	21.9	13.8	5.9	-0.4	-7.2	-15.0	-22.6	-30.2	-37.9	-14.5	-10.9	-7.2	-3.6	0.0	8.1	16.3	24.4	32.5	0.0	0.0	0.0	0.0
	-22.1	-22.3	-22.6	-22.8	-23.1	-20.8	-19.3	-18.0	-16.6	-18.7	-16.5	-16.8	-17.0	-17.3	-15.2	-13.8	-12.4	-10.9	-15.1	-13.2	-11.0	-11.3	-11.6	-9.7	-8.3	-6.7	-5.0	-23.1	-17.3	-11.6	-5.8	0.0	4.9	9.9	14.8	19.7	0.0	0.0	0.0	0.0
06	24.8	28.8	32.4	35.9	39.8	44.3	48.6	52.9	57.3	26.9	33.4	37.3	40.9	44.5	49.0	53.3	57.6	61.9	29.0	35.5	42.0	45.8	49.4	53.7	57.9	62.3	66.6	73.6	68.5	63.4	58.3	53.2	48.1	42.1	36.1	30.1	67.6	67.6	67.6	67.6
	14.8	8.0	2.0	-4.0	-10.4	-18.1	-26.2	-33.8	-41.4	19.7	11.8	5.2	-0.8	-7.0	-14.5	-22.5	-30.1	-37.6	24.7	16.7	8.9	2.4	-3.6	-10.9	-18.8	-26.3	-33.8	-18.1	-14.5	-10.9	-7.2	-3.6	0.0	8.1	16.3	24.4	0.0	0.0	0.0	0.0
	-27.6	-27.8	-28.1	-28.3	-28.6	-28.9	-26.5	-24.9	-23.5	-24.2	-22.1	-22.3	-22.6	-22.8	-23.1	-20.8	-19.3	-18.0	-20.8	-18.7	-16.5	-16.8	-17.0	-17.3	-15.2	-13.8	-12.4	-28.9	-23.1	-17.3	-11.6	-5.8	0.0	4.9	9.9	14.8	0.0	0.0	0.0	0.0
07	26.0	30.1	33.7	37.2	40.8	44.8	49.4	53.7	58.0	28.1	34.6	38.6	42.2	45.7	49.5	54.1	58.3	62.7	30.2	36.6	43.1	47.1	50.6	54.3	58.8	63.0	67.3	68.9	63.8	58.8	53.7	48.6	43.5	38.4	32.4	26.4	77.4	77.4	77.4	77.4
	17.7	10.9	4.8	-1.2	-7.2	-13.9	-21.7	-29.9	-37.6	22.6	14.8	8.0	2.0	-4.0	-10.4	-18.1	-26.2	-33.8	27.6	19.7	11.8	5.2	-0.8	-7.0	-14.5	-22.5	-30.1	-21.7	-18.1	-14.5	-10.9	-7.2	-3.6	0.0	8.1	16.3	0.0	0.0	0.0	0.0
	-33.1	-33.4	-33.6	-33.8	-34.1	-34.4	-34.7	-32.2	-30.5	-29.7	-27.6	-27.8	-28.1	-28.3	-28.6	-28.9	-26.5	-24.9	-26.3	-24.2	-22.1	-22.3	-22.6	-22.8	-23.1	-20.8	-19.3	-34.7	-28.9	-23.1	-17.3	-11.6	-5.8	0.0	4.9	9.9	0.0	0.0	0.0	0.0
08	27.2	31.3	35.0	38.5	42.1	45.8	49.8	54.5	58.7	29.3	35.8	39.8	43.5	47.0	50.6	54.5	59.2	63.4	31.3	37.8	44.3	48.3	51.9	55.5	59.3	63.8	68.1	64.3	59.2	54.1	49.0	43.9	38.8	33.7	28.6	22.6	87.1	87.1	87.1	87.1
	20.7	13.8	7.6	1.6	-4.3	-10.6	-17.4	-25.4	-33.5	25.6	17.7	10.9	4.8	-1.2	-7.2	-13.9	-21.7	-29.9	30.5	22.6	14.8	8.0	2.0	-4.0	-10.4	-18.1	-26.2	-25.4	-21.7	-18.1	-14.5	-10.9	-7.2	-3.6	0.0	8.1	0.0	0.0	0.0	0.0
	-38.6	-38.9	-39.1	-39.4	-39.6	-39.9	-40.1	-40.4	-37.9	-35.3	-33.1	-33.4	-33.6	-33.8	-34.1	-34.4	-34.7	-32.2	-31.9	-29.7	-27.6	-27.8	-28.1	-28.3	-28.6	-28.9	-26.5	-40.4	-34.7	-28.9	-23.1	-17.3	-11.6	-5.8	0.0	4.9	0.0	0.0	0.0	0.0
09	28.4	32.5	36.2	39.8	43.3	46.9	50.7	54.9	59.6	30.5	37.0	41.0	44.7	48.3	51.8	55.5	59.6	64.3	32.5	39.0	45.5	49.6	53.2	56.7	60.3	64.3	68.9	59.6	54.5	49.4	44.3	39.2	34.2	29.1	24.0	18.9	96.9	96.9	96.9	96.9
	23.6	16.7	10.4	4.4	-1.5	-7.6	-14.0	-21.0	-29.0	28.5	20.7	13.8	7.6	1.6	-4.3	-10.6	-17.4	-25.4	33.4	25.6	17.7	10.9	4.8	-1.2	-7.2	-13.9	-21.7	-29.0	-25.4	-21.7	-18.1	-14.5	-10.9	-7.2	-3.6	0.0	0.0	0.0	0.0	0.0
	-44.1	-44.4	-44.7	-44.9	-45.1	-45.4	-45.6	-45.9	-46.2	-40.8	-38.6	-38.9	-39.1	-39.4	-39.6	-39.9	-40.1	-40.4	-37.4	-35.3	-33.1	-33.4	-33.6	-33.8	-34.1	-34.4	-34.7	-46.2	-40.4	-34.7	-28.9	-23.1	-17.3	-11.6	-5.8	0.0	0.0	0.0	0.0	0.0
10	30.1	35.1	39.8	45.9	48.7	52.6	56.8	61.1	65.4	33.8	39.0	43.6	48.6	54.9	57.5	61.2	65.3	69.5	37.6	42.8	47.5	52.2	57.4	63.9	66.3	69.9	73.8	96.9	96.2	95.4	94.7	93.9	93.2	92.4	91.7	90.9	18.9	18.9	18.9	18.9
	24.4	15.4	7.0	-3.9	-14.1	-22.7	-30.9	-39.1	-47.2	32.5	23.3	15.0	6.2	-5.1	-15.7	-24.6	-33.0	-41.2	40.7	31.3	22.9	14.6	5.3	-6.4	-17.2	-26.4	-35.0	0.0	-1.3	-2.6	-3.9	-5.1	-6.4	-7.7	-9.0	-10.3	0.0	0.0	0.0	0.0
	14.8	20.5	25.8	32.7	32.9	34.9	37.4	40.1	42.8	19.7	25.6	30.8	36.4	43.6	43.4	45.1	47.4	49.9	24.6	30.6	35.9	41.2	47.1	54.5	54.0	55.4	57.4	0.0	10.9	21.8	32.7	43.6	54.5	65.4	76.3	87.2	0.0	0.0	0.0	0.0
11	30.2	36.1	41.0	46.6	49.8	53.9	58.2	62.5	66.8	33.9	39.8	44.9	49.6	55.7	58.5	62.4	66.6	70.8	37.7	43.6	48.7	53.4	58.3	64.7	67.3	71.0	75.0	88.3	87.1	86.4	85.7	84.9	84.2	83.4	82.7	81.9	24.1	24.1	24.1	24.1
	25.5	16.3	7.5	-2.6	-12.3	-20.6	-28.7	-36.8	-44.9	33.7	24.4	15.4	7.0	-3.9	-14.1	-22.7	-30.9	-39.1	41.8	32.5	23.3	15.0	6.2	-5.1	-15.7	-24.6	-33.0	3.0	0.0	-1.3	-2.6	-3.9	-5.1	-6.4	-7.7	-9.0	0.0	0.0	0.0	0.0
	8.5	9.9	15.4	21.8	22.5	25.0	27.6	30.3	33.1	13.3	14.8	20.5	25.8	32.7	32.9	34.9	37.4	40.1	18.2	19.7	25.6	30.8	36.4	43.6	43.4	45.1	47.4	-5.5	0.0	10.9	21.8	32.7	43.6	54.5	65.4	76.3	0.0	0.0	0.0	0.0
12	30.3	36.2	42.1	47.4	51.0	55.3	59.6	63.9	68.2	34.0	39.9	45.9	50.8	56.4	59.6	63.7	67.9	72.2	37.8	43.7	49.6	54.6	59.3	65.4	68.2	72.1	76.3	79.8	78.6	77.4	76.6	75.9	75.2	74.4	73.7	72.9	29.3	29.3	29.3	29.3
	26.6	17.4	8.1	-1.3	-10.3	-18.4	-26.5	-34.6	-42.7	34.8	25.5	16.3	7.5	-2.6	-12.3	-20.6	-28.7	-36.8	42.9	33.7	24.4	15.4	7.0	-3.9	-14.1	-22.7	-30.9	5.9	3.0	0.0	-1.3	-2.6	-3.9	-5.1	-6.4	-7.7	0.0	0.0	0.0	0.0
	2.6	3.7	4.9	10.9	12.5	15.2	17.9	20.6	23.2	7.3	8.5	9.9	15.4	21.8	22.5	25.0	27.6	30.3	12.1	13.3	14.8	20.5	25.8	32.7	32.9	34.9	37.4	-11.0	-5.5	0.0	10.9	21.8	32.7	43.6	54.5	65.4	0.0	0.0	0.0	0.0
13	30.4	36.3	42.2	48.1	52.4	56.6	60.8	65.0	69.3	34.1	40.0	46.0	51.9	57.1	60.8	65.1	69.4	73.6	37.9	43.8	49.7	55.6	60.5	66.2	69.3	73.4	77.7	71.2	70.0	68.8	67.6	66.9	66.2	65.4	64.7	63.9	34.5	34.5	34.5	34.5
	27.7	18.5	9.2	0.0	-8.2	-16.4	-24.5	-32.7	-40.9	35.8	26.6	17.4	8.1	-1.3	-10.3	-18.4	-26.5	-34.6	44.0	34.8	25.5	16.3	7.5	-2.6	-12.3	-20.6	-28.7	8.9	5.9	3.0	0.0	-1.3	-2.6	-3.9	-5.1	-6.4	0.0	0.0	0.0	0.0
	-3.6	-2.4	-1.2	0.0	2.6	5.2	7.8	10.4	13.0	1.4	2.6	3.7	4.9	10.9	12.5	15.2	17.9	20.6	6.2	7.3	8.5	9.9	15.4	21.8	22.5	25.0	27.6	-16.5	-11.0	-5.5	0.0	10.9	21.8	32.7	43.6	54.5	0.0	0.0	0.0	0.0
14	30.5	36.7	42.9	49.3	53.2	57.6	61.9	66.2	70.5	34.2	40.1	46.1	52.0	57.9	62.1	66.3	70.6	74.8	38.0	43.9	49.8	55.7	61.6	66.9	70.5	74.8	79.1	62.6	61.5	60.3	59.1	57.9	57.1	56.4	55.7	54.9	39.7	39.7	39.7	39.7
	28.2	19.4	11.0	3.0	-3.6	-11.3	-18.9	-26.7	-34.7	37.0	27.7	18.5	9.2	0.0	-8.2	-16.4	-24.5	-32.7	45.1	35.8	26.6	17.4	8.1	-1.3	-10.3	-18.4	-26.5	11.8	8.9	5.9	3.0	0.0	-1.3	-2.6	-3.9	-5.1	0.0	0.0	0.0	0.0
	-10.8	-9.3	-7.6	-5.5	-5.8	-4.1	-2.5	-0.6	1.5	-4.8	-3.6	-2.4	-1.2	0.0	2.6	5.2	7.8	10.4	0.3	1.4	2.6	3.7	4.9	10.9	12.5	15.2	17.9	-22.1	-16.5	-11.0	-5.5	0.0	10.9	21.8	32.7	43.6	0.0	0.0	0.0	0.0
15	31.4	37.6	44.0	50.5	54.3	58.3	62.6	67.0	71.3	34.2	40.3	46.4	52.6	59.1	63.0	67.3	71.6	75.9	38.1	44.0	49.9	55.8	61.7	67.6	71.9	76.1	80.3	54.1	52.9	51.7	50.5	49.3	48.1	47.4	46.6	45.9	44.9	44.9	44.9	44.9
	30.3	21.9	13.8	5.9	-0.4	-7.2	-15.0	-22.6	-30.2	37.1	28.2	19.4	11.0	3.0	-3.6	-11.3	-18.9	-26.7	46.2	37.0	27.7	18.5	9.2	0.0	-8.2	-16.4	-24.5	14.8	11.8	8.9	5.9	3.0	0.0	-1.3	-2.6	-3.9	0.0	0.0	0.0	0.0
	-16.9	-15.1	-13.2	-11.0	-11.3	-11.6	-9.7	-8.3	-6.7	-12.2	-10.8	-9.3	-7.6	-5.5	-5.8	-4.1	-2.5	-0.6	-6.0	-4.8	-3.6	-2.4	-1.2	0.0	2.6	5.2	7.8	-27.6	-22.1	-16.5	-11.0	-5.5	0.0	10.9	21.8	32.7	0.0	0.0	0.0	0.0
16	32.4	38.8	45.2	51.7	55.5	59.1	63.4	67.7	72.0	34.9	41.1	47.4	53.8	60.3	64.0	68.1	72.4	76.7	38.0	44.0	50.0	56.2	62.4	68.8	72.7	77.1	81.4	45.5	44.3	43.1	42.0	40.8	39.6	38.4	37.6	36.9	50.1	50.1	50.1	50.1
	32.9	24.7	16.7	8.9	2.4	-3.6	-10.9	-18.8	-26.3	38.9	30.3	21.9	13.8	5.9	-0.4	-7.2	-15.0	-22.6	46.1	37.1	28.2	19.4	11.0	3.0	-3.6	-11.3	-18.9	17.7	14.8	11.8	8.9	5.9	3.0	0.0	-1.3	-2.6	0.0	0.0	0.0	0.0
	-22.7	-20.8	-18.7	-16.5	-16.8	-17.0	-17.3	-15.2	-13.8	-18.6	-16.9	-15.1	-13.2	-11.0	-11.3	-11.6	-9.7	-8.3	-13.6	-12.2	-10.8	-9.3	-7.6	-5.5	-5.8	-4.1	-2.5	-33.1	-27.6	-22.1	-16.5	-11.0	-5.5	0.0	10.9	21.8	0.0	0.0	0.0	0.0
17	33.5	39.9	46.4	52.9	56.8	60.4	64.0	68.5	72.8	35.9	42.2	48.5	55.0	61.5	65.3	68.9	73.2	77.4	38.5	44.7	50.9	57.1	63.5	70.0	73.8	77.8	82.1	37.0	35.8	34.6	33.4	32.2	31.0	29.8	28.6	27.9	55.3	55.3	55.3	55.3
	35.6	27.6	19.7	11.8	5.2	-0.8	-7.0	-14.5	-22.5	41.2	32.9	24.7	16.7	8.9	2.4	-3.6	-10.9	-18.8	47.6	38.9	30.3	21.9	13.8	5.9	-0.4	-7.2	-15.0	20.7	17.7	14.8	11.8	8.9	5.9	3.0	0.0	-1.3	0.0	0.0	0.0	0.0
	-28.3	-26.3	-24.2	-22.1	-22.3	-22.6	-22.8	-23.1	-20.8	-24.5	-22.7	-20.8	-18.7	-16.5	-16.8	-17.0	-17.3	-15.2	-20.1	-18.6	-16.9	-15.1	-13.2	-11.0	-11.3	-11.6	-9.7	-38.6	-33.1	-27.6	-22.1	-16.5	-11.0	-5.5	0.0	10.9	0.0	0.0	0.0	0.0
18	34.6	41.1	47.6	54.1	58.1	61.7	65.2	69.0	73.6	36.9	43.3	49.7	56.1	62.6	66.6	70.1	73.8	78.3	39.4	45.6	51.9	58.3	64.7	71.2	75.1	78.6	82.9	28.4	27.2	26.0	24.8	23.6	22.5	21.3	20.1	18.9	60.5	60.5	60.5	60.5
	38.5	30.5	22.6	14.8	8.0	2.0	-4.0	-10.4	-18.1	43.8	35.6	27.6	19.7	11.8	5.2	-0.8	-7.0	-14.5	49.7	41.2	32.9	24.7	16.7	8.9	2.4	-3.6	-10.9	23.6	20.7	17.7	14.8	11.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
	-33.9	-31.9	-29.7	-27.6	-27.8	-28.1	-28.3	-28.6	-28.9	-30.2	-28.3	-26.3	-24.2	-22.1	-22.3	-22.6	-22.8	-23.1	-26.2	-24.5	-22.7	-20.8	-18.7	-16.5	-16.8	-17.0	-17.3	-44.1	-38.6	-33.1	-27.6	-22.1	-16.5	-11.0	-5.5	0.0	0.0	0.0	0.0	0.0
19	41.3	46.6	51.3	56.0	60.8	66.2	72.9	75.2	78.6	45.0	50.4	55.2	59.8	64.5	69.5	75.1	81.9	84.1	48.7	54.1	59.0	63.7	68.3	73.1	78.2	84.0	90.9	96.9	91.4	85.8	80.3	74.8	69.3	63.7	58.2	52.7	65.7	65.7	65.7	65.7
	48.8	39.3	30.8	22.6	14.0	4.2	-7.7	-18.7	-28.1	56.9	47.4	38.7	30.5	22.1	13.2	3.2	-9.0	-20.1	65.1	55.4	46.7	38.3	30.1	21.6	12.4	2.0	-10.3	0.0	-8.2	-16.4	-24.5	-32.7	-40.9	-49.1	-57.3	-65.4	0.0	0.0	0.0	0.0
	29.6	35.6	41.0	46.2	51.7	57.8	65.4	64.7	65.8	34.5	40.6	46.1	51.3	56.6	62.2	68.6	76.3	75.4	39.4	45.5	51.1	56.4	61.6	67.0	72.9	79.4	87.2	0.0	2.6	5.2	7.8	10.4	13.0	15.6	18.2	20.7	0.0	0.0	0.0	0.0
20	41.4	47.3	52.5	57.2	61.9	67.1	73.7	76.1	79.6	45.1	51.0	56.3	61.1	65.7	70.5	76.0	82.7	85.0	48.9	54.8	60.1	65.0	69.6	74.3	79.2	84.9	91.7	91.0	87.1	81.6	76.1	70.6	65.0	59.5	54.0	48.5	70.9	70.9	70.9	70.9
	50.0	40.7	31.3	22.9	14.6	5.3	-6.4	-17.2	-26.4	58.1	48.8	39.3	30.8	22.6	14.0	4.2	-7.7	-18.7	66.3	56.9	47.4	38.7	30.5	22.1	13.2	3.2	-9.0	9.2	0.0	-8.2	-16.4	-24.5	-32.7	-40.9	-49.1	-57.3	0.0	0.0	0.0	0.0
	23.1	24.6	30.6	35.9	41.2	47.1	54.5	54.0	55.4	28.0	29.6	35.6	41.0	46.2	51.7	57.8	65.4	64.7	32.9	34.5	40.6	46.1	51.3	56.6	62.2	68.6	76.3	-1.2	0.0	2.6	5.2	7.8	10.4	13.0	15.6	18.2	0.0	0.0	0.0	0.0
21	41.5	47.4	53.3	58.5	63.1	68.1	74.4	77.0	80.7	45.2	51.1	57.1	62.3	67.0	71.7	76.9	83.4	85.8	49.0	54.9	60.8	66.1	70.8	75.5	80.3	85.7	92.4	85.1	81.2	77.4	71.9	66.3	60.8	55.3	49.8	44.2	76.1	76.1	76.1	76.1
	51.1	41.8	32.5	23.3	15.0	6.2	-5.1	-15.7	-24.6	59.2	50.0	40.7	31.3	22.9	14.6	5.3	-6.4	-17.2	67.4	58.1	48.8	39.3	30.8	22.6	14.0	4.2	-7.7	18.5	9.2	0.0	-8.2	-16.4	-24.5	-32.7	-40.9	-49.1	0.0	0.0	0.0	0.0
	16.9	18.2	19.7	25.6	30.8	36.4	43.6	43.4	45.1	21.8	23.1	24.6	30.6	35.9	41.2	47.1	54.5	54.0	26.6	28.0	29.6	35.6	41.0	46.2	51.7	57.8	65.4	-2.4	-1.2	0.0	2.6	5.2	7.8	10.4	13.0	15.6	0.0	0.0	0.0	0.0
22	41.6	47.5	53.4	59.3	64.4	69.1	75.2	78.0	81.9	45.3	51.3	57.2	63.1	68.2	72.9	77.8	84.2	86.8	49.1	55.0	60.9	66.8	72.0	76.7	81.4	86.6	93.2	79.2	75.3	71.5	67.6	62.1	56.6	51.1	45.5	40.0	81.3	81.3	81.3	81.3
	52.2	42.9	33.7	24.4	15.4	7.0	-3.9	-14.1	-22.7	60.3	51.1	41.8	32.5	23.3	15.0	6.2	-5.1	-15.7	68.5	59.2	50.0	40.7	31.3	22.9	14.6	5.3	-6.4	27.7	18.5	9.2	0.0	-8.2	-16.4	-24.5	-32.7	-40.9	0.0	0.0	0.0	0.0
	11.0	12.1	13.3	14.8	20.5	25.8	32.7	32.9	34.9	15.8	16.9	18.2	19.7	25.6	30.8	36.4	43.6	43.4	20.6	21.8	23.1	24.6	30.6	35.9	41.2	47.1	54.5	-3.6	-2.4	-1.2	0.0	2.6	5.2	7.8	10.4	13.0	0.0	0.0	0.0	0.0
23	41.7	47.6	53.5	59.4	65.4	70.3	75.9	79.1	83.2	45.4	51.4	57.3	63.2	69.1	74.1	78.8	84.9	87.7	49.2	55.1	61.0	66.9	72.8	78.0	82.6	87.6	93.9	73.2	69.4	65.6	61.7	57.9	52.4	46.8	41.3	35.8	86.5	86.5	86.5	86.5
	53.2	44.0	34.8	25.5	16.3	7.5	-2.6	-12.3	-20.6	61.4	52.2	42.9	33.7	24.4	15.4	7.0	-3.9	-14.1	69.5	60.3	51.1	41.8	32.5	23.3	15.0	6.2	-5.1	37.0	27.7	18.5	9.2	0.0	-8.2	-16.4	-24.5	-32.7	0.0	0.0	0.0	0.0
	5.1	6.2	7.3	8.5	9.9	15.4	21.8	22.5	25.0	9.9	11.0	12.1	13.3	14.8	20.5	25.8	32.7	32.9	14.7	15.8	16.9	18.2	19.7	25.6	30.8	36.4	43.6	-4.8	-3.6	-2.4	-1.2	0.0	2.6	5.2	7.8	10.4	0.0	0.0	0.0	0.0
24	41.8	47.7	53.6	59.5	65.5	71.4	76.6	80.3	84.6	45.5	51.5	57.4	63.3	69.2	75.1	80.0	85.7	88.8	49.3	55.2	61.1	67.0	72.9	78.8	83.9	88.6	94.7	67.3	63.5	59.7	55.8	52.0	48.1	42.6	37.1	31.6	91.7	91.7	91.7	91.7
	54.3	45.1	35.8	26.6	17.4	8.1	-1.3	-10.3	-18.4	62.5	53.2	44.0	34.8	25.5	16.3	7.5	-2.6	-12.3	70.6	61.4	52.2	42.9	33.7	24.4	15.4	7.0	-3.9	46.2	37.0	27.7	18.5	9.2	0.0	-8.2	-16.4	-24.5	0.0	0.0	0.0	0.0
	-0.9	0.3	1.4	2.6	3.7	4.9	10.9	12.5	15.2	4.0	5.1	6.2	7.3	8.5	9.9	15.4	21.8	22.5	8.8	9.9	11.0	12.1	13.3	14.8	20.5	25.8	32.7	-6.0	-4.8	-3.6	-2.4	-1.2	0.0	2.6	5.2	7.8	0.0	0.0	0.0	0.0
25	41.9	47.8	53.7	59.7	65.6	71.5	77.4	81.6	85.8	45.6	51.6	57.5	63.4	69.3	75.2	81.1	86.4	90.0	49.4	55.3	61.2	67.1	73.0	79.0	84.9	89.8	95.4	61.4	57.6	53.7	49.9	46.1	42.2	38.4	32.9	27.3	96.9	96.9	96.9	96.9
	55.4	46.2	37.0	27.7	18.5	9.2	0.0	-8.2	-16.4	63.5	54.3	45.1	35.8	26.6	17.4	8.1	-1.3	-10.3	71.7	62.5	53.2	44.0	34.8	25.5	16.3	7.5	-2.6	55.4	46.2	37.0	27.7	18.5	9.2	0.0	-8.2	-16.4	0.0	0.0	0.0	0.0
	-7.2	-6.0	-4.8	-3.6	-2.4	-1.2	0.0	2.6	5.2	-2.1	-0.9	0.3	1.4	2.6	3.7	4.9	10.9	12.5	2.8	4.0	5.1	6.2	7.3	8.5	9.9	15.4	21.8	-7.2	-6.0	-4.8	-3.6	-2.4	-1.2	0.0	2.6	5.2	0.0	0.0	0.0	0.0
26	41.7	47.7	53.7	59.8	65.9	72.1	78.6	82.5	86.8	45.7	51.7	57.6	63.5	69.4	75.3	81.2	87.1	91.4	49.5	55.4	61.3	67.2	73.1	79.1	85.0	90.9	96.2	55.5	51.7	47.8	44.0	40.1	36.3	32.5	28.6	23.1	18.9	48.7	90.9	52.7
	55.1	46.1	37.1	28.2	19.4	11.0	3.0	-3.6	-11.3	64.7	55.4	46.2	37.0	27.7	18.5	9.2	0.0	-8.2	72.8	63.5	54.3	45.1	35.8	26.6	17.4	8.1	-1.3	64.7	55.4	46.2	37.0	27.7	18.5	9.2	0.0	-8.2	0.0	65.1	-10.3	-65.4
	-14.9	-13.6	-12.2	-10.8	-9.3	-7.6	-5.5	-5.8	-4.1	-8.4	-7.2	-6.0	-4.8	-3.6	-2.4	-1.2	0.0	2.6	-3.2	-2.1	-0.9	0.3	1.4	2.6	3.7	4.9	10.9	-8.4	-7.2	-6.0	-4.8	-3.6	-2.4	-1.2	0.0	2.6	0.0	39.4	87.2	20.7
27	42.2	48.3	54.4	60.6	66.9	73.3	79.8	83.5	87.6	45.5	51.5	57.5	63.5	69.5	75.7	81.9	88.3	92.2	49.6	55.5	61.4	67.3	73.2	79.2	85.1	91.0	96.9	49.6	45.7	41.9	38.1	34.2	30.4	26.6	22.7	18.9	96.9	59.6	28.4	49.6
	56.4	47.6	38.9	30.3	21.9	13.8	5.9	-0.4	-7.2	64.2	55.1	46.1	37.1	28.2	19.4	11.0	3.0	-3.6	73.9	64.7	55.4	46.2	37.0	27.7	18.5	9.2	0.0	73.9	64.7	55.4	46.2	37.0	27.7	18.5	9.2	0.0	0.0	-29.0	23.6	73.9
	-21.6	-20.1	-18.6	-16.9	-15.1	-13.2	-11.0	-11.3	-11.6	-16.2	-14.9	-13.6	-12.2	-10.8	-9.3	-7.6	-5.5	-5.8	-9.6	-8.4	-7.2	-6.0	-4.8	-3.6	-2.4	-1.2	0.0	-9.6	-8.4	-7.2	-6.0	-4.8	-3.6	-2.4	-1.2	0.0	0.0	-46.2	-44.1	-9.6

See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

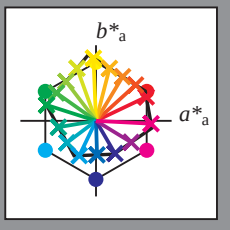
BAM registration: 20081001-Ee12/10L/L12E00NP.PS/ .PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

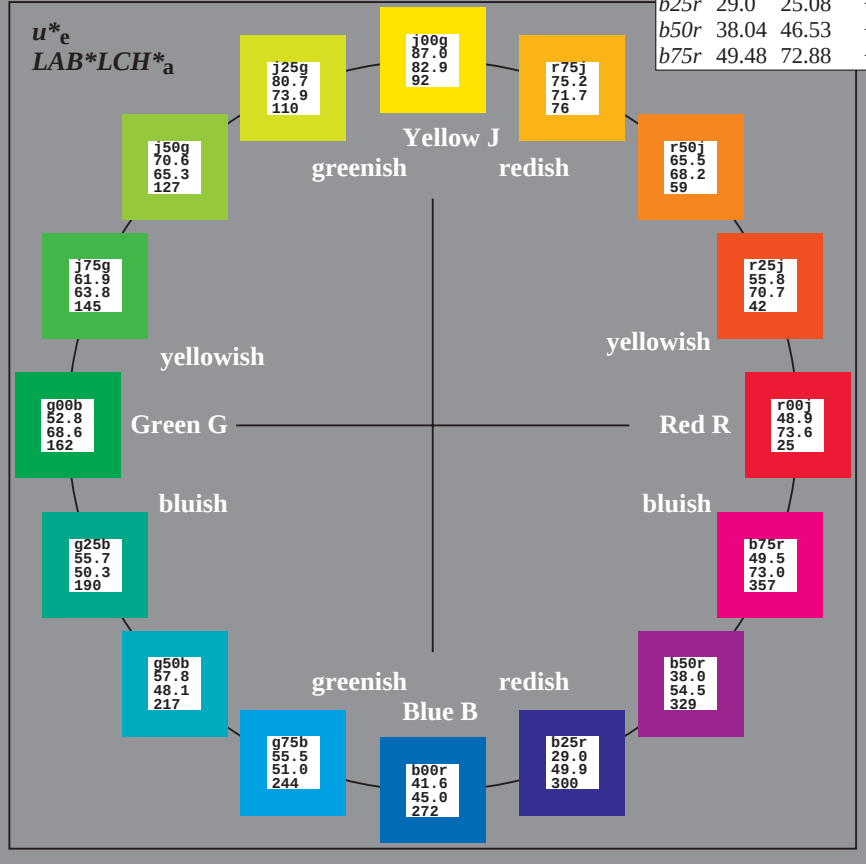
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

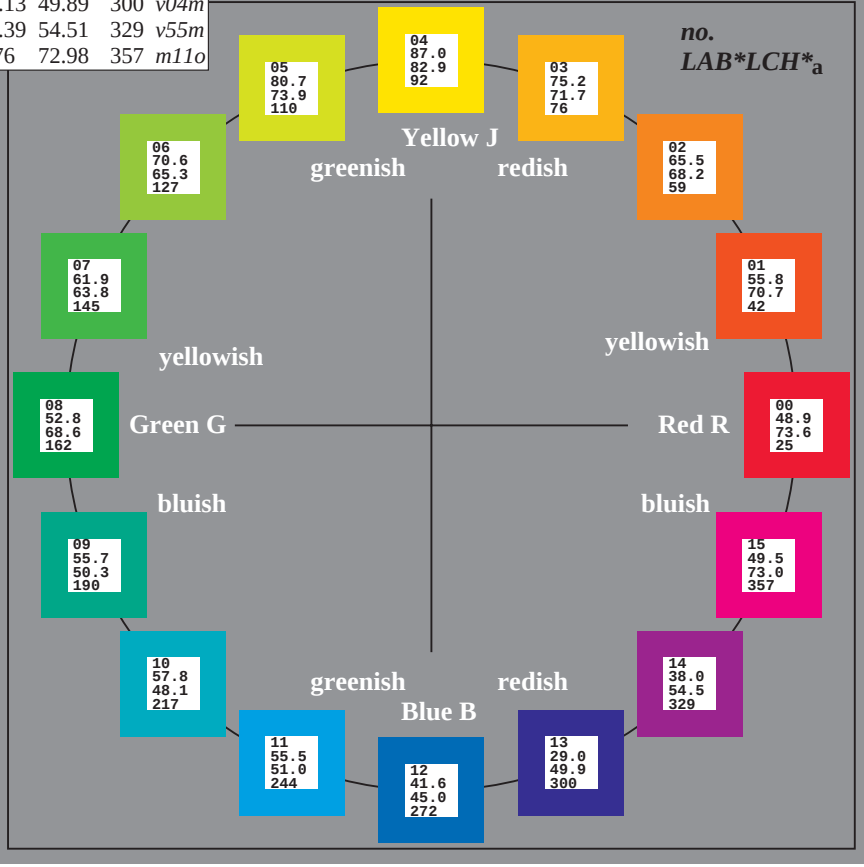


%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

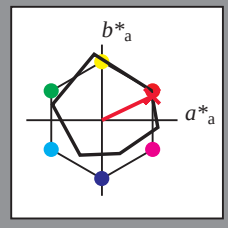
Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

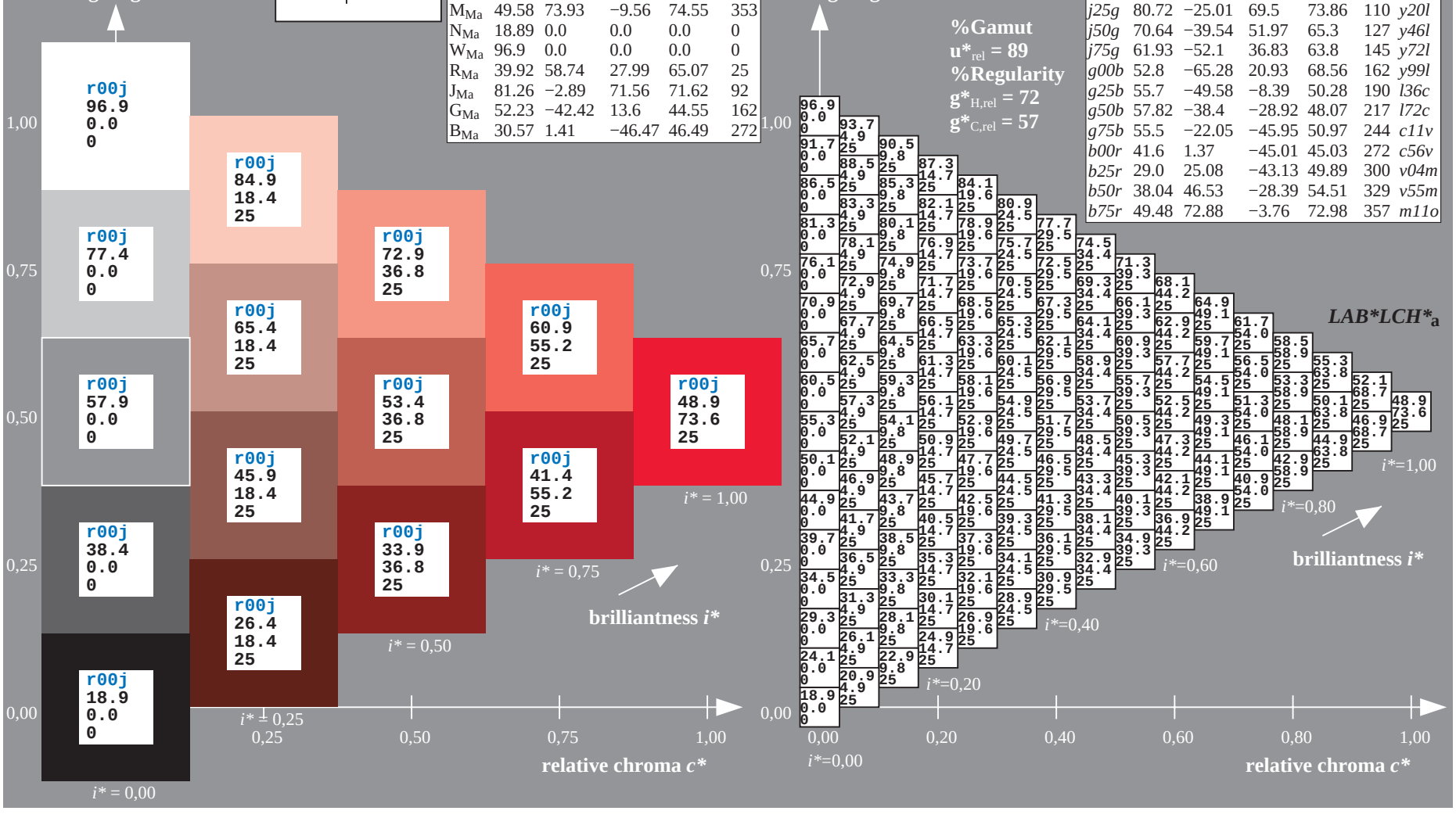
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15
triangle lightness *t**

ORS19_96a; adapted (a) CIELAB data

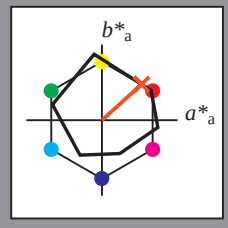
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

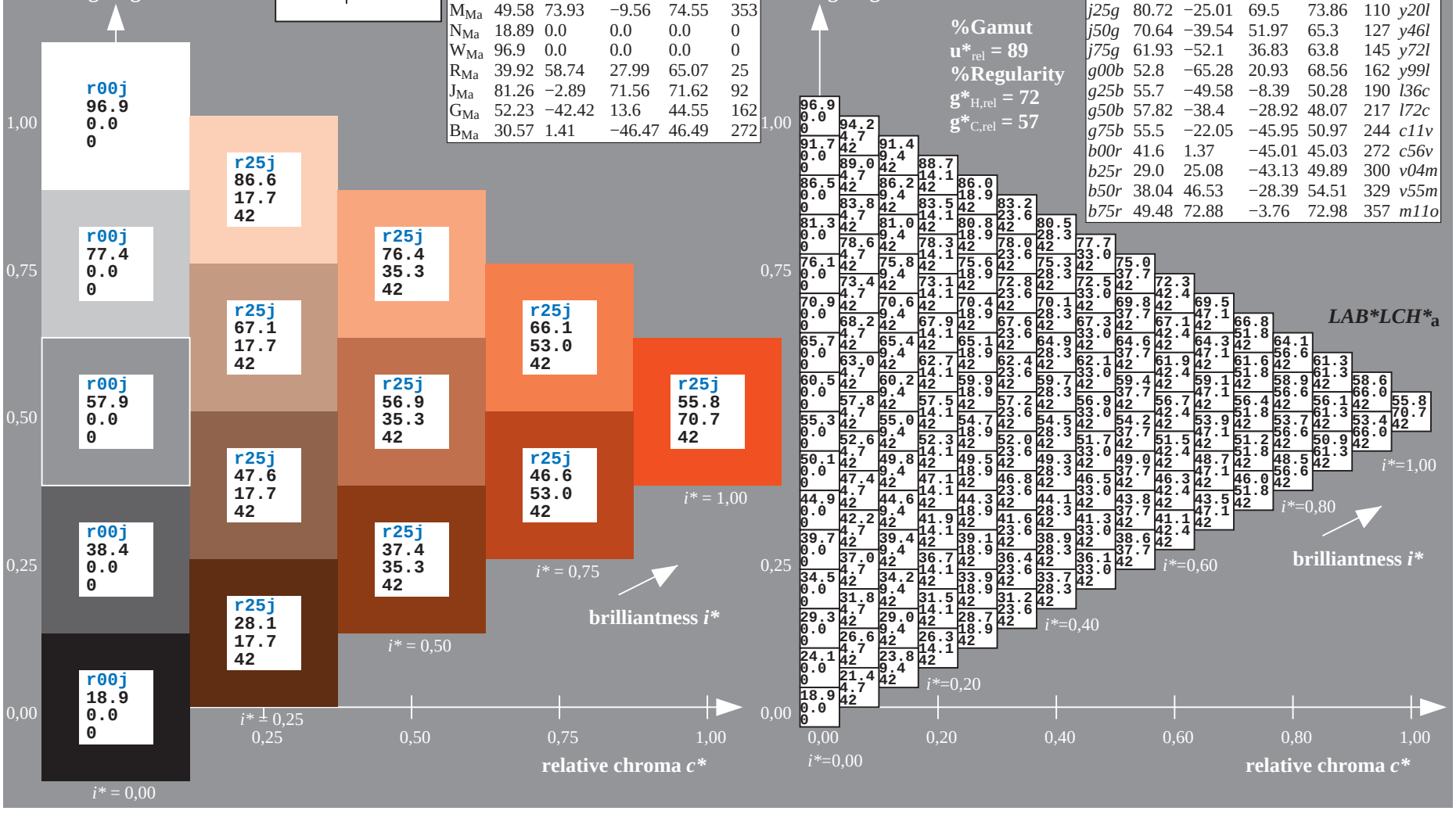
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 56 52 47**
LAB*LCH*$_{Ma}$**: 56 71 42**
lab*rgb*$_{Ma}$**: 1.0 0.25 0.0**
lab*olv*$_{Ma}$**: 1.0 0.17 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e = r25j
LAB*LCH*a

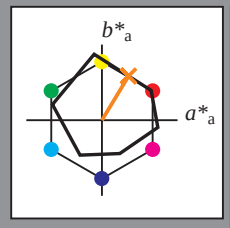
ORS19_96a; adapted (a) CIELAB data

	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25		*m84o*
r25j	55.85	52.39	47.48	70.7	42		*o17y*
r50j	65.45	35.22	58.37	68.17	59		*o42y*
r75j	75.19	17.82	69.41	71.66	76		*o67y*
j00g	87.03	−3.35	82.83	82.9	92		*o92y*
j25g	80.72	−25.01	69.5	73.86	110		*y20l*
j50g	70.64	−39.54	51.97	65.3	127		*y46l*
j75g	61.93	−52.1	36.83	63.8	145		*y72l*
g00b	52.8	−65.28	20.93	68.56	162		*y99l*
g25b	55.7	−49.58	−8.39	50.28	190		*l36c*
g50b	57.82	−38.4	−28.92	48.07	217		*l72c*
g75b	55.5	−22.05	−45.95	50.97	244		*c11v*
b00r	41.6	1.37	−45.01	45.03	272		*c56v*
b25r	29.0	25.08	−43.13	49.89	300		*v04m*
b50r	38.04	46.53	−28.39	54.51	329		*v55m*
b75r	49.48	72.88	−3.76	72.98	357		*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

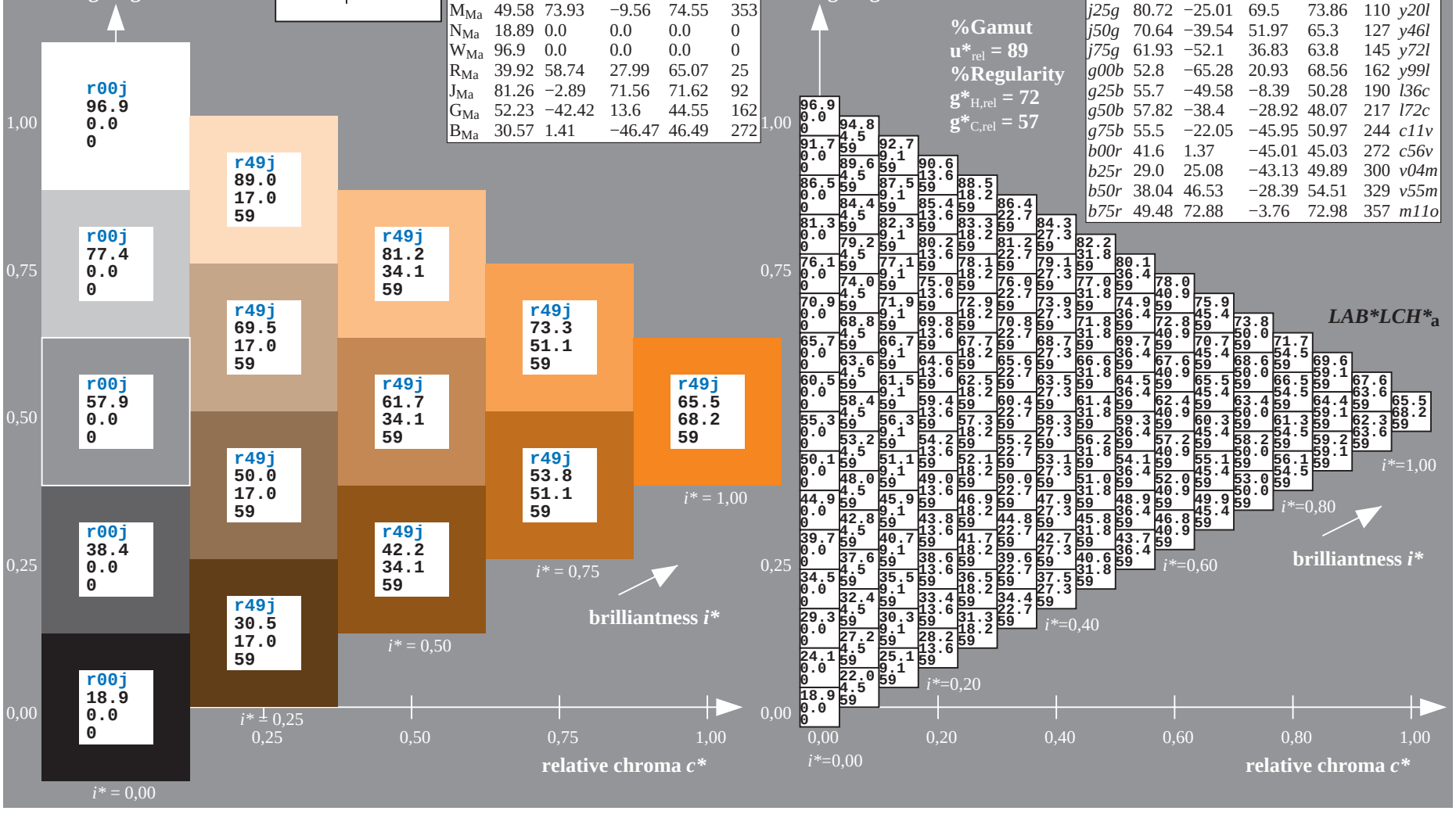
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e = r50j
LAB*LCH*a**

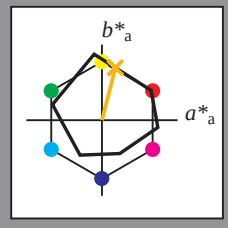
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = r75j$ $u^*_d = o67y$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

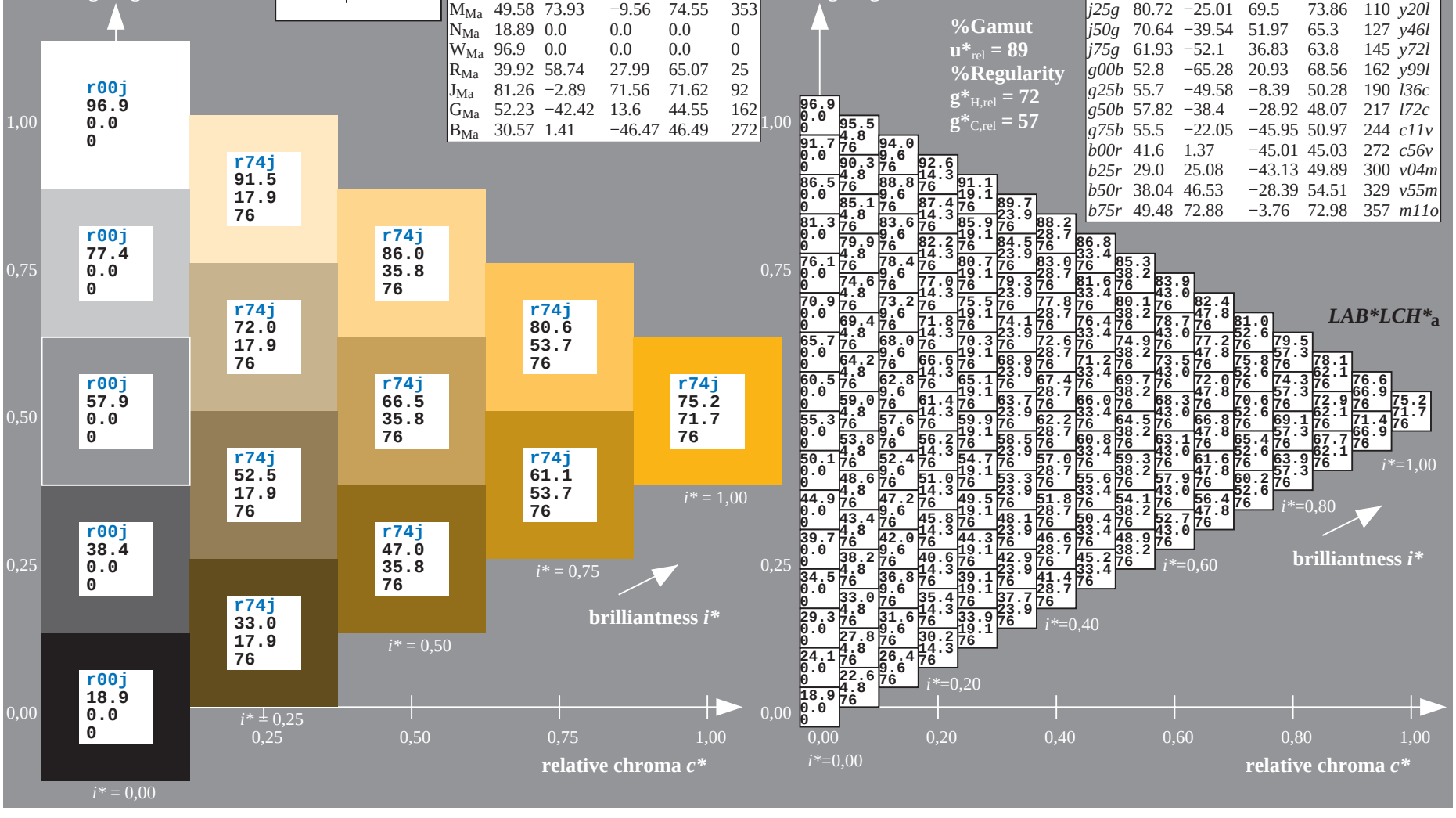
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 75 18 69
$LAB^*LCH^*_{Ma}$: 75 72 75
$lab^*rgb^*_{Ma}$: 1.0 0.75 0.0
$lab^*olv^*_{Ma}$: 1.0 0.68 0.0
triangle lightness t^*

ORS19_96a; adapted (a) CIELAB data

	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25		*m84o*
r25j	55.85	52.39	47.48	70.7	42		*o17y*
r50j	65.45	35.22	58.37	68.17	59		*o42y*
r75j	75.19	17.82	69.41	71.66	76		*o67y*
j00g	87.03	−3.35	82.83	82.9	92		*o92y*
j25g	80.72	−25.01	69.5	73.86	110		*y20l*
j50g	70.64	−39.54	51.97	65.3	127		*y46l*
j75g	61.93	−52.1	36.83	63.8	145		*y72l*
g00b	52.8	−65.28	20.93	68.56	162		*y99l*
g25b	55.7	−49.58	−8.39	50.28	190		*l36c*
g50b	57.82	−38.4	−28.92	48.07	217		*l72c*
g75b	55.5	−22.05	−45.95	50.97	244		*c11v*
b00r	41.6	1.37	−45.01	45.03	272		*c56v*
b25r	29.0	25.08	−43.13	49.89	300		*v04m*
b50r	38.04	46.53	−28.39	54.51	329		*v55m*
b75r	49.48	72.88	−3.76	72.98	357		*m11o*

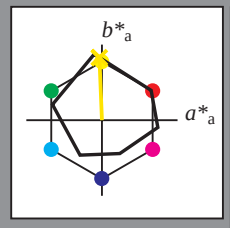
$u^*_e = r75j$
$LAB^*LCH^*_a$

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

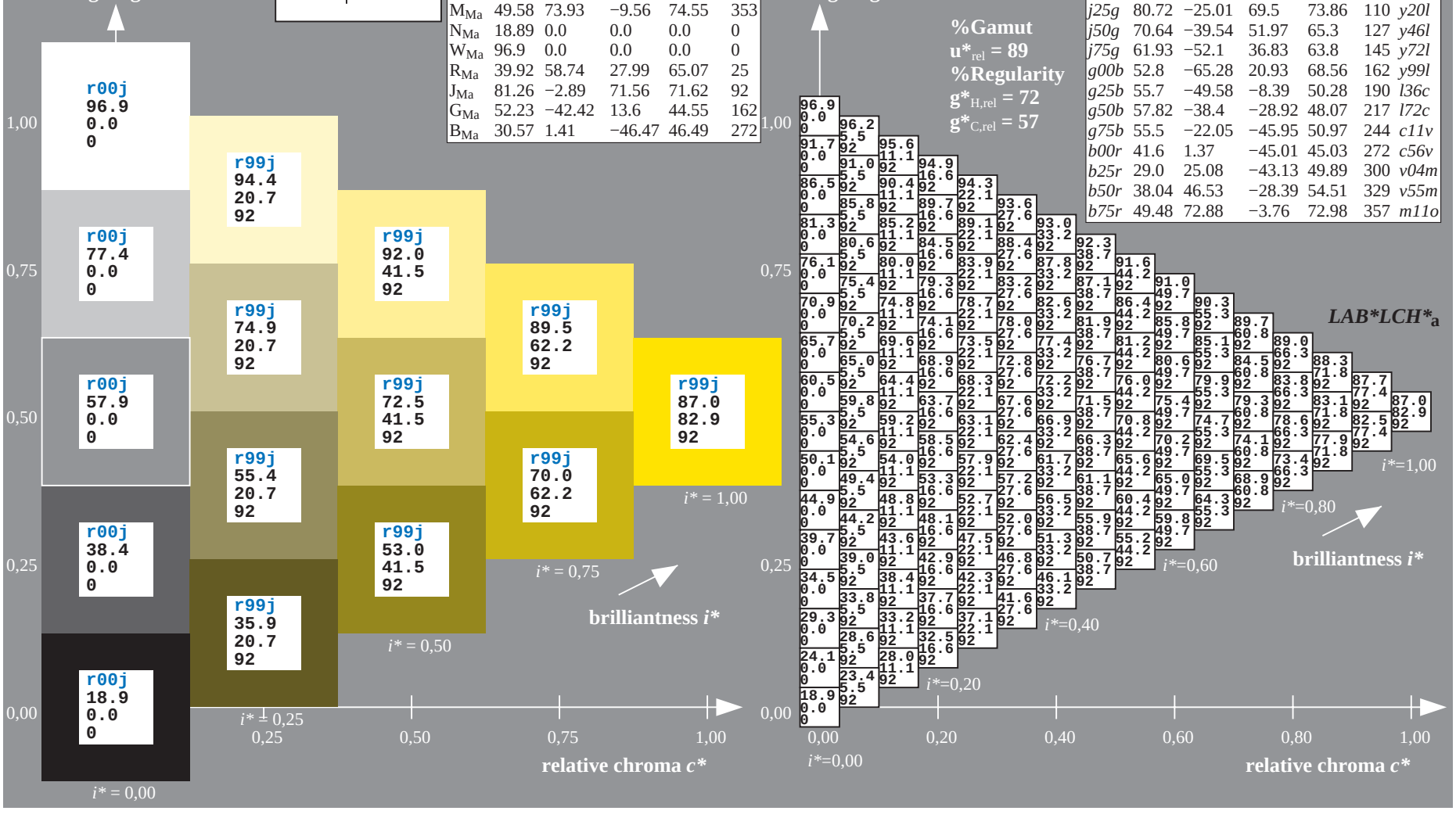
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

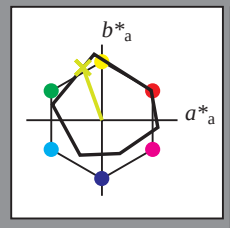
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = j25g$ $u^*_d = y20l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

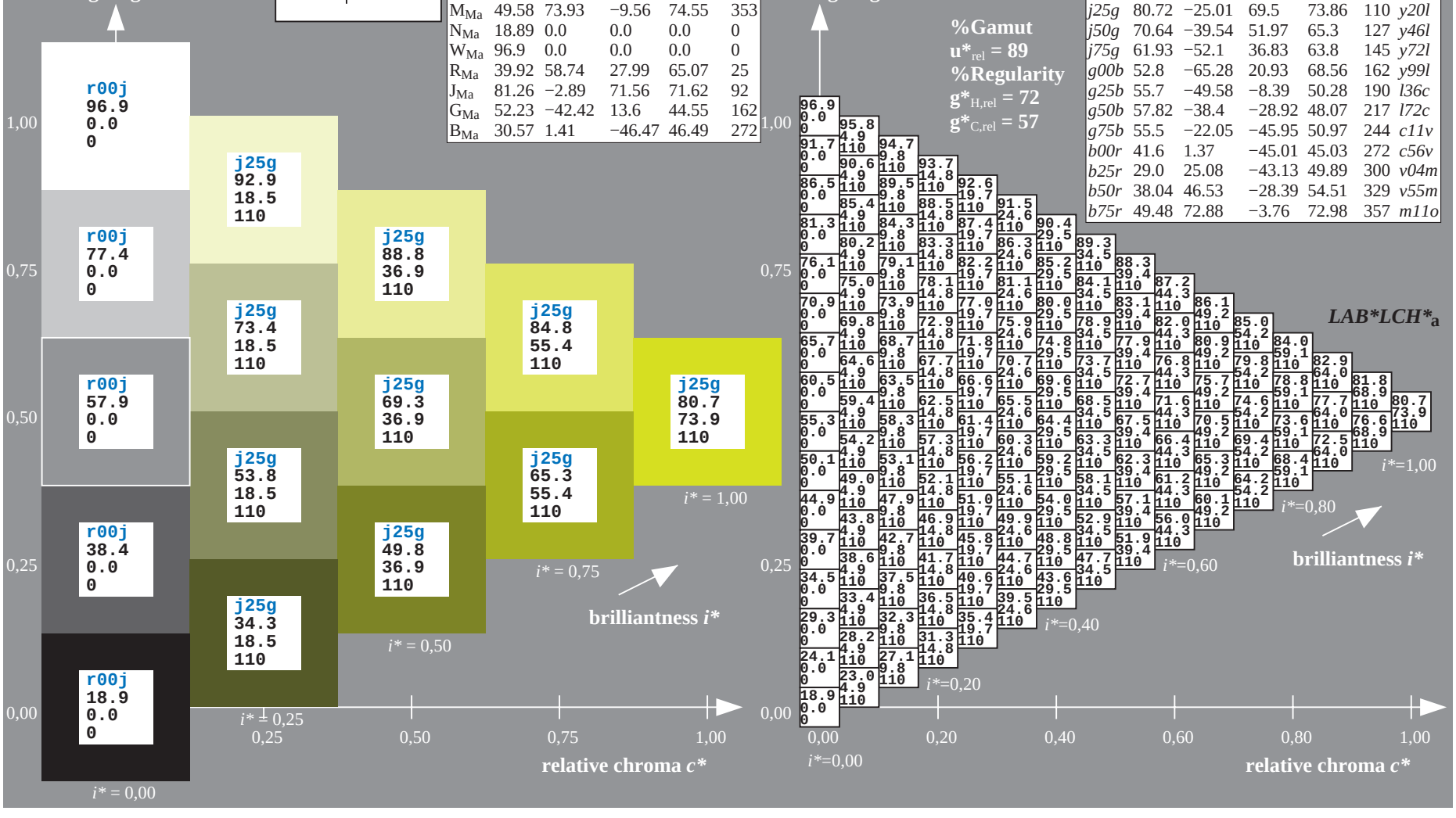
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 81 −25 69
$LAB^*LCH^*_{Ma}$: 81 74 109
$lab^*rgb^*_{Ma}$: 0.75 1.0 0.0
$lab^*olv^*_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = j25g$
$LAB^*LCH^*_a$

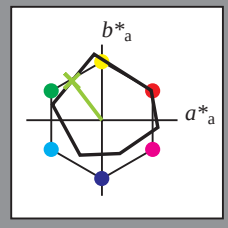
ORS19_96a; adapted (a) CIELAB data

	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25		*m84o*
r25j	55.85	52.39	47.48	70.7	42		*o17y*
r50j	65.45	35.22	58.37	68.17	59		*o42y*
r75j	75.19	17.82	69.41	71.66	76		*o67y*
j00g	87.03	−3.35	82.83	82.9	92		*o92y*
j25g	80.72	−25.01	69.5	73.86	110		*y20l*
j50g	70.64	−39.54	51.97	65.3	127		*y46l*
j75g	61.93	−52.1	36.83	63.8	145		*y72l*
g00b	52.8	−65.28	20.93	68.56	162		*y99l*
g25b	55.7	−49.58	−8.39	50.28	190		*l36c*
g50b	57.82	−38.4	−28.92	48.07	217		*l72c*
g75b	55.5	−22.05	−45.95	50.97	244		*c11v*
b00r	41.6	1.37	−45.01	45.03	272		*c56v*
b25r	29.0	25.08	−43.13	49.89	300		*v04m*
b50r	38.04	46.53	−28.39	54.51	329		*v55m*
b75r	49.48	72.88	−3.76	72.98	357		*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = j50g$ $u^*_d = y46l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

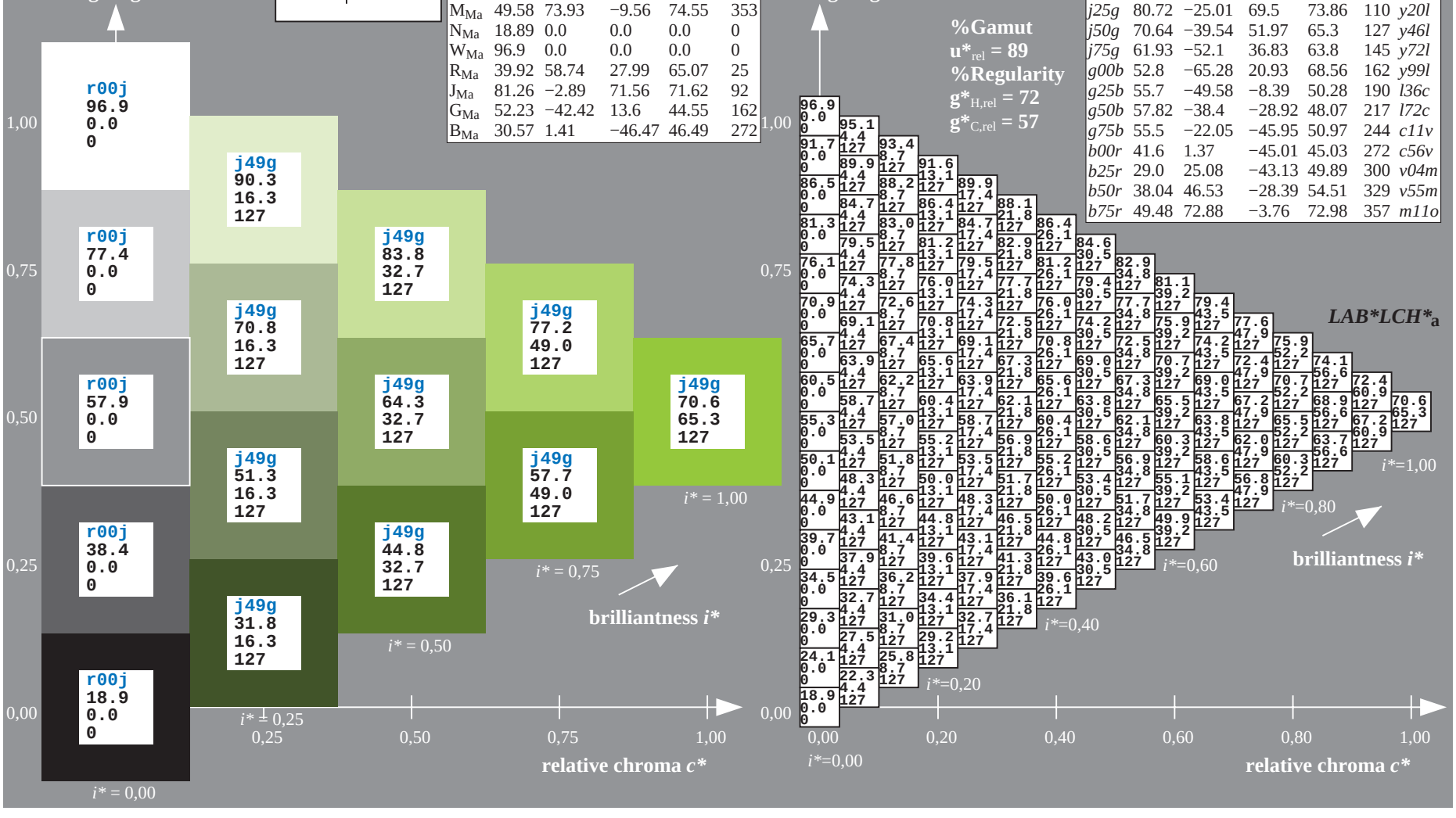
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 71 −40 52
$LAB^*LCH^*_{Ma}$: 71 65 127
$lab^*rgb^*_{Ma}$: 0.5 1.0 0.0
$lab^*olv^*_{Ma}$: 0.54 1.0 0.0
triangle lightness *t**

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = j50g$
$LAB^*LCH^*_a$

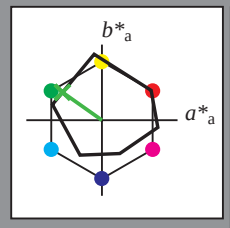
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = j75g$ $u^*_d = y72l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

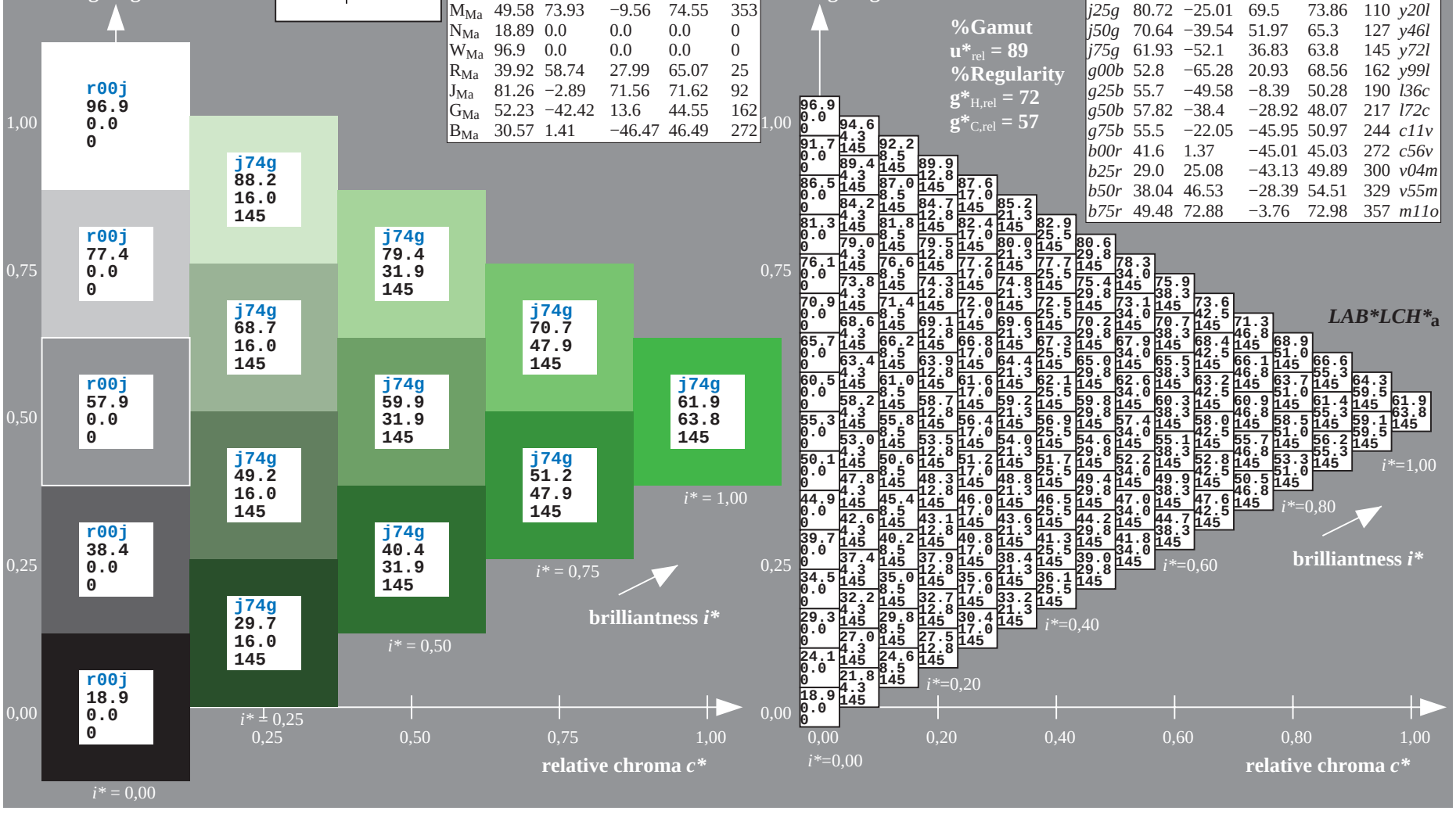
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 62 −52 37
$LAB^*LCH^*_{Ma}$: 62 64 144
$lab^*rgb^*_{Ma}$: 0.25 1.0 0.0
$lab^*olv^*_{Ma}$: 0.27 1.0 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = j75g$
$LAB^*LCH^*_a$

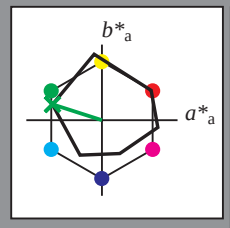
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g00b$ $u^*_d = y99l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

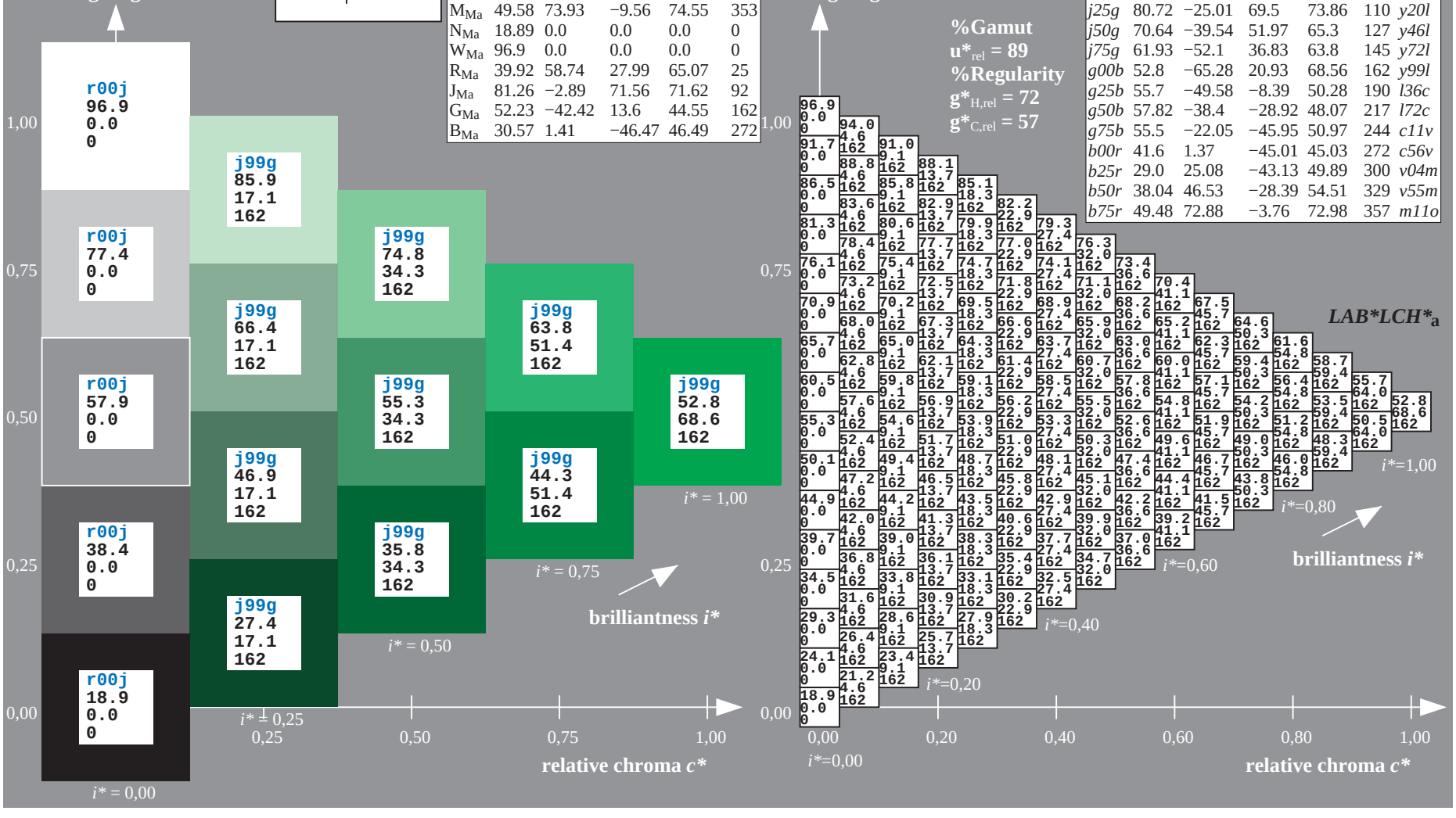
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = g00b$
$LAB^*LCH^*_a$

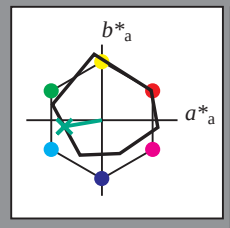
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.527**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

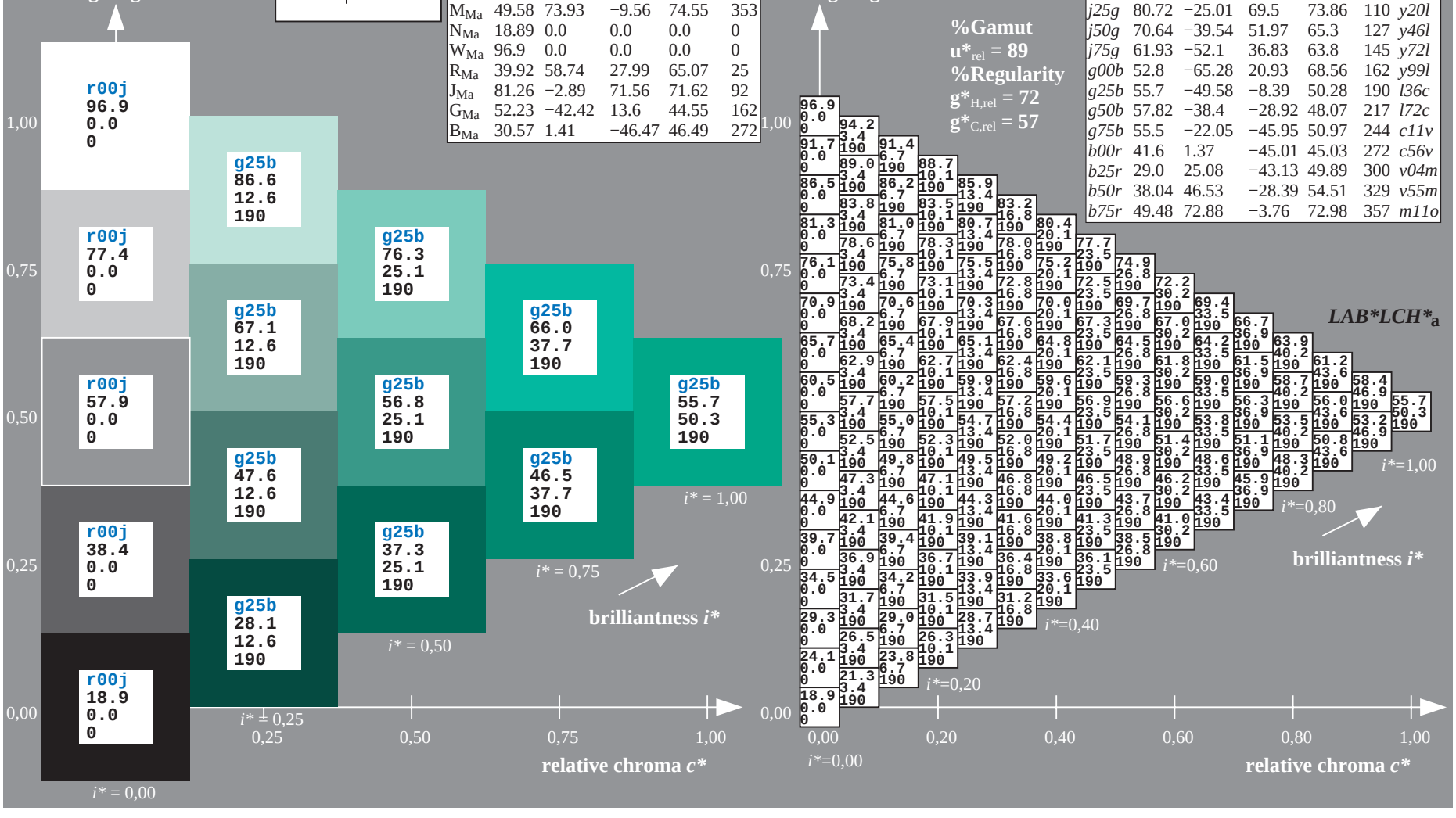
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 −50 −8
*LAB*LCH**$_{Ma}$: 56 50 189
*lab*rgb**$_{Ma}$: 0.0 1.0 0.5
*lab*olv**$_{Ma}$: 0.0 1.0 0.36
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

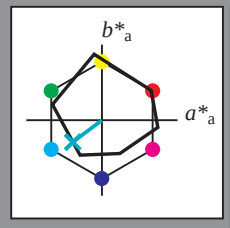
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g50b$ $u^*_d = l72c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

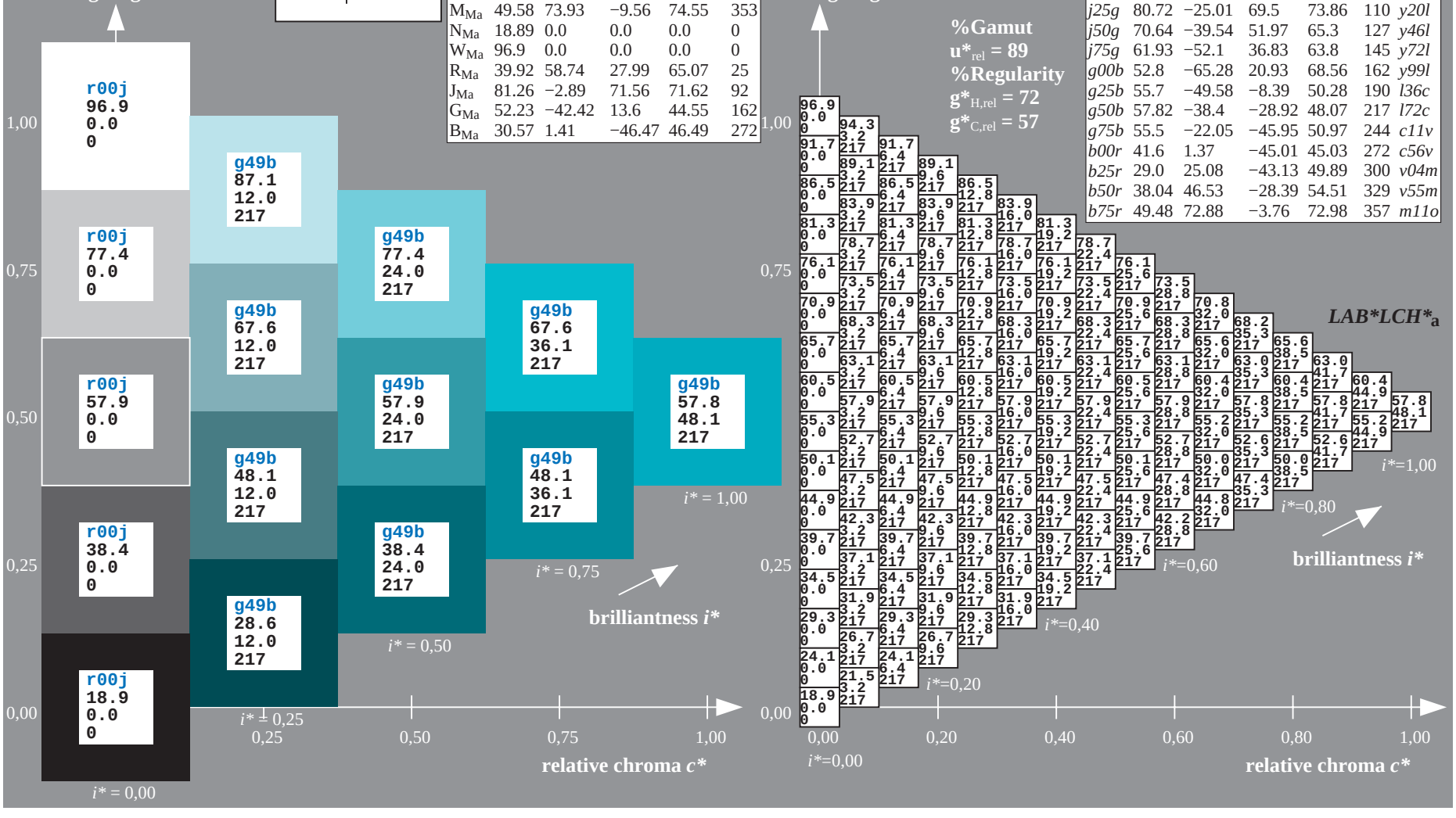
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 58 −38 −29
$LAB^*LCH^*_{Ma}$: 58 48 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.72
triangle lightness t^*

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

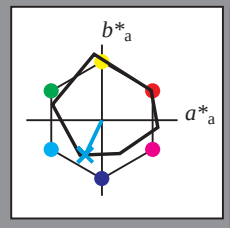
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g75b$ $u^*_d = c11v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

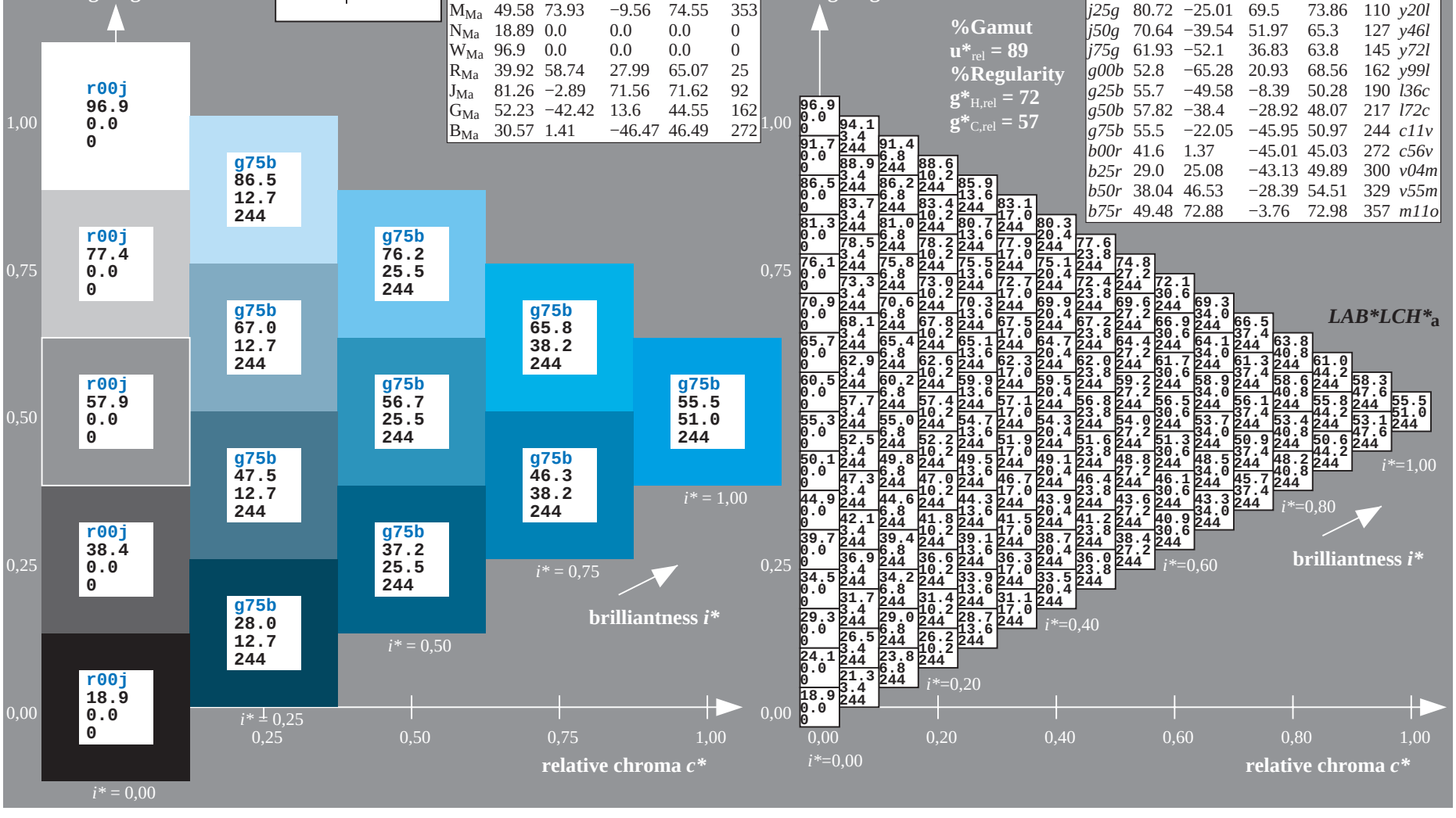
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 55 −22 −46
$LAB^*LCH^*_{Ma}$: 55 51 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

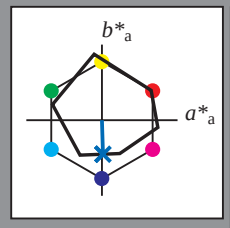
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

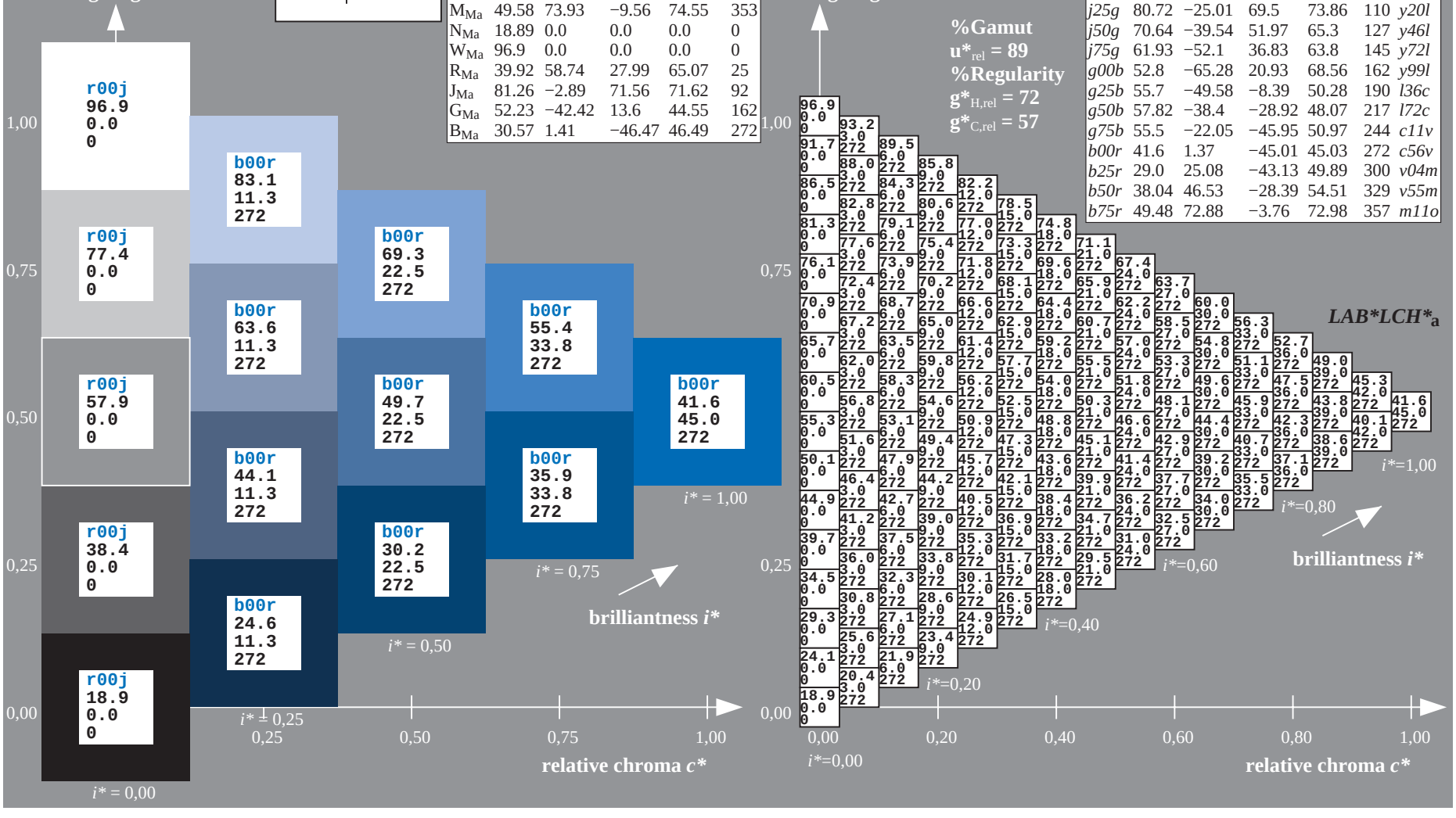
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 1 −45
*LAB*LCH**$_{Ma}$: 42 45 271
*lab*rgb**$_{Ma}$: 0.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.0 0.44 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b00r*
LAB*LCH*a

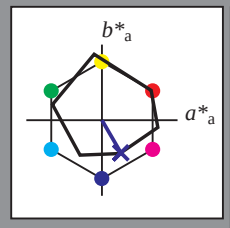
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t



ORS19_96a; adapted (a) CIELAB data

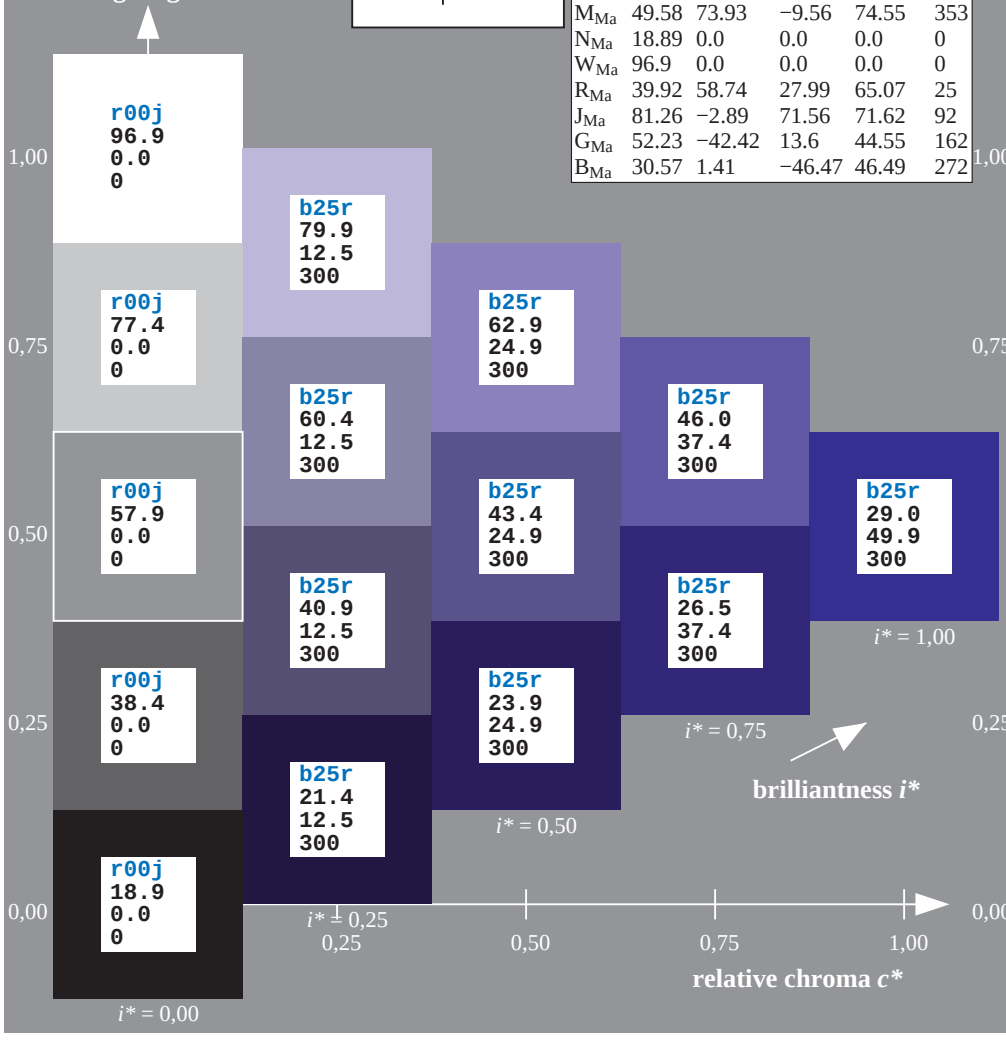
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

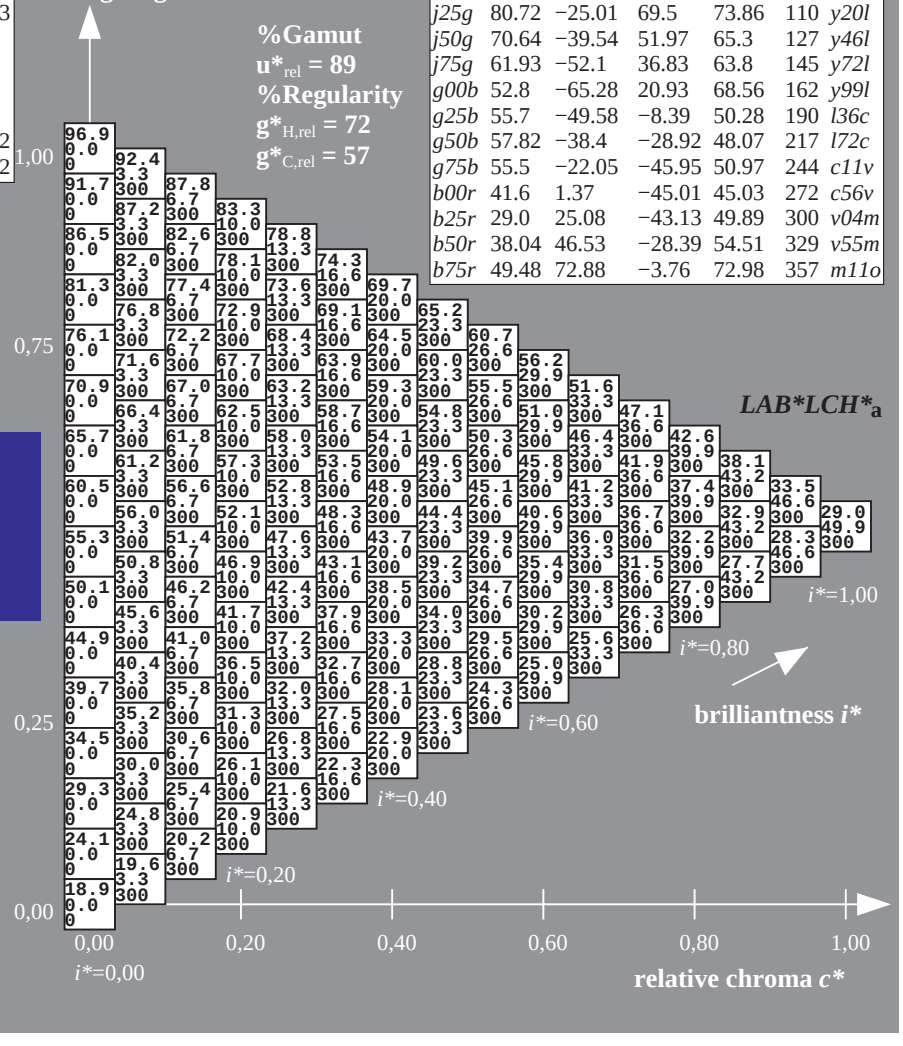
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 29 25 −43
*LAB*LCH**$_{Ma}$: 29 50 300
*lab*rgb**$_{Ma}$: 0.5 0.0 1.0
*lab*olv**$_{Ma}$: 0.04 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

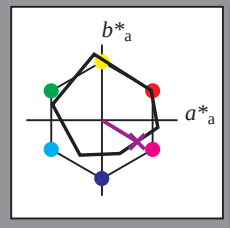
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

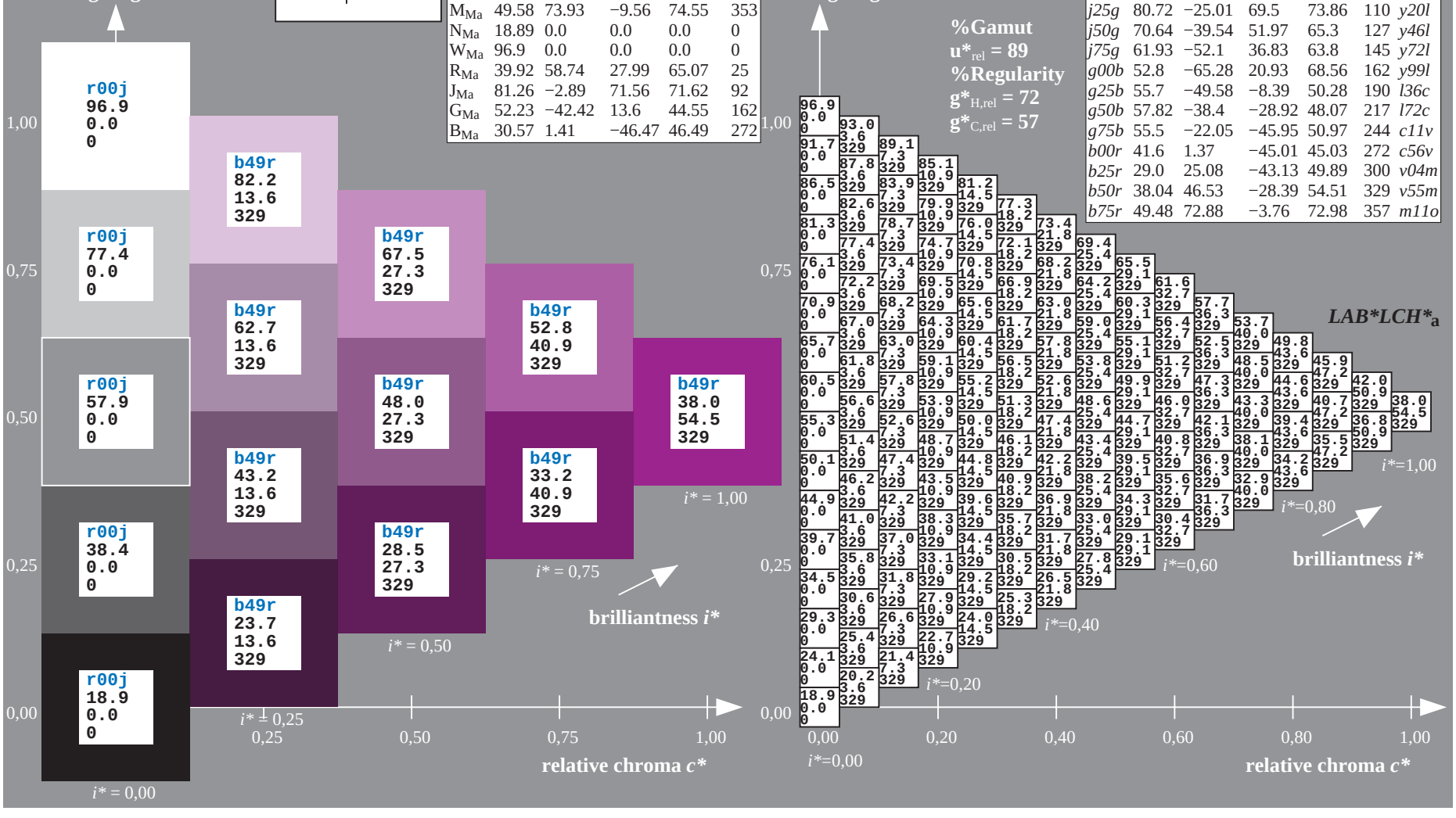
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 47 −28
*LAB*LCH**$_{Ma}$: 38 55 328
*lab*rgb**$_{Ma}$: 1.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.56 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

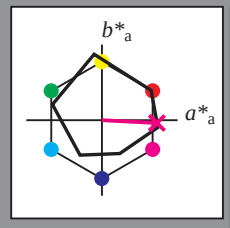
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

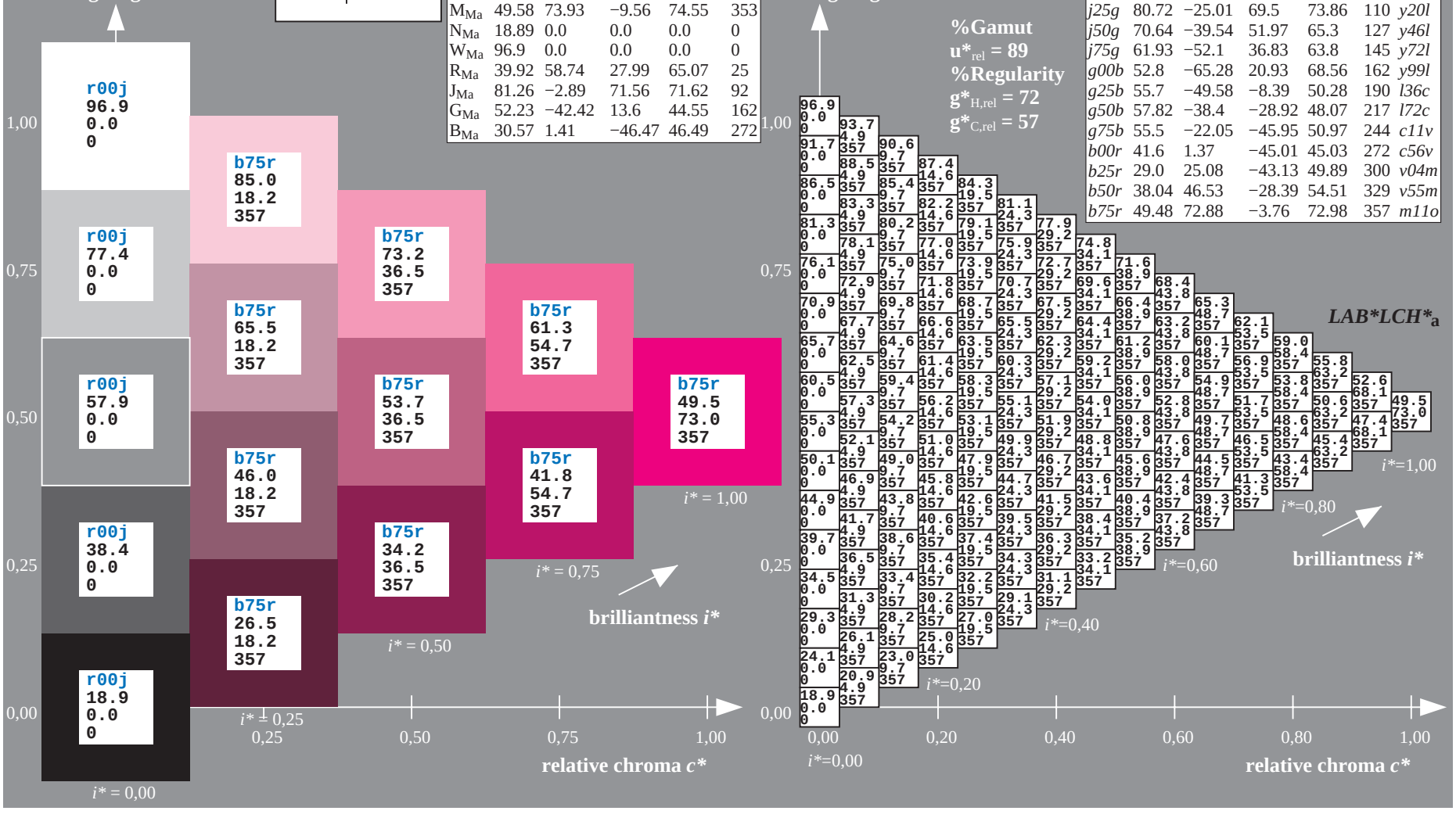
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 73 −4
*LAB*LCH**$_{Ma}$: 49 73 357
*lab*rgb**$_{Ma}$: 1.0 0.0 0.5
*lab*olv**$_{Ma}$: 1.0 0.0 0.89
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b75r*
*LAB*LCH**$_a$

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a	b	c	d	e	f	g	h	i	j	k	LAB*LCH*a		
01	18.9 0.0 0	23.1 8.6 162	27.3 17.2 162	31.6 25.7 162	35.8 34.3 162	40.0 42.9 162	44.2 51.5 162	48.5 60.1 162	52.7 68.6 162	22.6 9.5 31	27.9 11.0 97	31.5 16.2 130	35.8 23.9 141	40.1 32.0 146	44.4 40.2 149	48.6 48.6 151	52.9 57.1 153	57.2 65.5 154	26.4 19.0 31	31.2 17.1 64	36.9 22.0 97	40.1 25.7 119	44.2 32.4 130	48.4 39.9 136	52.7 47.7 141	57.0 55.8 144	61.3 63.9 146	96.9 0.0 0	90.9 9.5 31	84.9 19.0 31	78.8 28.5 31	72.8 38.0 31	66.8 47.6 31	60.8 57.1 31	54.8 66.6 31	48.7 76.1 31	18.9 0.0 0	18.9 0.0 0	18.9 0.0 0	18.9 0.0 0
02	20.1 6.3 298	24.0 6.8 238	28.3 12.0 200	32.6 19.1 188	36.9 26.8 181	41.2 34.7 178	45.5 42.8 175	49.7 51.0 173	54.0 59.3 172	22.7 9.3 353	28.6 0.0 0	32.9 8.6 162	37.1 17.2 162	41.3 25.7 162	45.5 34.3 162	49.8 42.9 162	54.0 51.5 162	58.2 60.1 162	26.5 17.8 12	32.4 9.5 31	37.6 11.0 97	41.3 16.2 130	45.6 23.9 141	49.9 32.0 146	54.1 40.2 149	58.4 48.6 151	62.7 57.1 153	92.2 6.8 238	87.1 0.0 0	81.1 9.5 31	75.1 19.0 31	69.1 28.5 31	63.1 38.0 31	57.1 47.6 31	51.0 57.1 31	45.0 66.6 31	28.6 0.0 0	28.6 0.0 0	28.6 0.0 0	28.6 0.0 0
03	21.3 12.5 298	25.0 11.3 268	29.1 13.6 238	33.4 17.9 213	37.7 24.0 200	42.1 30.9 193	46.4 38.2 188	50.7 45.8 184	55.0 53.5 181	23.4 13.3 325	29.8 6.3 298	33.7 6.8 238	38.1 12.0 200	42.4 19.1 188	46.7 26.8 181	51.0 34.7 178	55.2 42.8 175	59.5 51.0 173	26.6 18.6 353	32.5 9.3 353	38.4 0.0 0	42.6 8.6 162	46.8 17.2 162	51.1 25.7 162	55.3 34.3 162	59.5 42.9 162	63.7 51.5 162	87.6 13.6 238	82.5 6.8 238	77.4 0.0 0	71.4 9.5 31	65.4 19.0 31	59.3 28.5 31	53.3 38.0 31	47.3 47.6 31	41.3 57.1 31	38.4 0.0 0	38.4 0.0 0	38.4 0.0 0	38.4 0.0 0
04	22.5 18.8 298	26.3 17.0 278	29.9 17.4 258	34.2 20.5 238	38.4 24.2 219	42.8 29.7 208	47.1 36.1 200	51.5 42.8 195	55.8 50.0 191	24.5 19.1 316	31.0 12.5 298	34.8 11.3 268	38.8 13.6 238	43.1 17.9 213	47.5 24.0 200	51.8 30.9 193	56.1 38.2 188	60.4 45.8 184	26.9 21.5 334	33.1 13.3 325	39.6 6.3 298	43.5 6.8 238	47.8 12.0 200	52.1 19.1 188	56.4 26.8 181	60.7 34.7 178	65.0 42.8 175	82.9 20.5 238	77.8 13.6 238	72.7 6.8 238	67.6 0.0 0	61.6 9.5 31	55.6 19.0 31	49.6 28.5 31	43.6 38.0 31	37.6 47.6 31	48.1 0.0 0	48.1 0.0 0	48.1 0.0 0	48.1 0.0 0
05	23.6 25.0 298	27.6 22.9 283	31.1 22.6 268	34.8 23.9 253	39.2 27.3 238	43.5 30.7 223	47.8 35.8 213	52.2 41.7 206	56.5 48.1 200	25.7 25.1 312	32.2 18.8 298	36.0 17.0 278	39.6 17.4 258	43.9 20.5 238	48.2 24.2 219	52.5 29.7 208	56.9 36.1 200	61.2 42.8 195	27.9 26.6 325	34.3 19.1 316	40.8 12.5 298	44.5 11.3 268	48.6 13.6 238	52.9 17.9 213	57.2 24.0 200	61.6 30.9 193	65.9 38.2 188	78.3 27.3 238	73.2 20.5 238	68.1 13.6 238	63.0 6.8 238	57.9 0.0 0	51.9 9.5 31	45.9 19.0 31	39.8 28.5 31	33.8 38.0 31	57.9 0.0 0	57.9 0.0 0	57.9 0.0 0	57.9 0.0 0
06	24.8 31.3 298	28.8 29.0 286	32.4 28.2 274	35.9 28.6 262	39.8 30.4 250	44.3 34.1 238	48.6 37.2 225	52.9 42.0 216	57.3 47.6 210	26.9 31.2 309	33.4 25.0 298	37.3 22.9 283	40.9 22.6 268	44.5 23.9 253	49.0 27.3 238	53.3 30.7 223	57.6 35.8 213	61.9 41.7 206	29.0 32.3 320	35.5 25.1 312	42.0 18.8 298	45.8 17.0 278	49.4 17.4 258	53.7 20.5 238	57.9 24.2 219	62.3 29.7 208	66.6 36.1 200	73.6 34.1 238	68.5 27.3 238	63.4 20.5 238	58.3 13.6 238	53.2 6.8 238	48.1 0.0 0	42.1 9.5 31	36.1 19.0 31	30.1 28.5 31	67.6 0.0 0	67.6 0.0 0	67.6 0.0 0	67.6 0.0 0
07	26.0 37.5 298	30.1 35.1 288	33.7 33.9 278	37.2 33.9 268	40.8 34.9 258	44.8 37.1 248	49.4 40.9 238	53.7 43.9 227	58.0 48.4 219	28.1 37.4 307	34.6 31.3 298	38.6 29.0 286	42.2 28.2 274	45.7 28.6 262	49.5 30.4 250	54.1 34.1 238	58.3 37.2 225	62.7 42.0 216	30.2 38.1 316	36.6 31.2 309	43.1 25.0 298	47.1 22.9 283	50.6 22.6 268	54.3 23.9 253	58.8 27.3 238	63.0 30.7 223	67.3 35.8 213	68.9 40.9 238	63.8 34.1 238	58.8 27.3 238	53.7 20.5 238	48.6 13.6 238	43.5 6.8 238	38.4 0.0 0	32.4 9.5 31	26.4 19.0 31	77.4 0.0 0	77.4 0.0 0	77.4 0.0 0	77.4 0.0 0
08	27.2 43.8 298	31.3 41.3 290	35.0 39.9 281	38.5 39.4 272	42.1 39.8 264	45.8 41.2 255	49.8 43.8 247	54.5 47.7 238	58.7 50.6 228	29.3 43.5 306	35.8 37.5 298	39.8 35.1 288	43.5 33.9 278	47.0 33.9 268	50.6 34.9 258	54.5 37.1 248	59.2 40.9 238	63.4 43.9 227	31.3 44.1 314	37.8 37.4 307	44.3 31.3 298	48.3 29.0 286	51.9 28.2 274	55.5 28.6 262	59.3 30.4 250	63.8 34.1 238	68.1 37.2 225	64.3 47.7 238	59.2 40.9 238	54.1 34.1 238	49.0 27.3 238	43.9 20.5 238	38.8 13.6 238	33.7 6.8 238	28.6 0.0 0	22.6 9.5 31	87.1 0.0 0	87.1 0.0 0	87.1 0.0 0	87.1 0.0 0
09	28.4 50.1 298	32.5 47.4 291	36.2 45.8 283	39.8 45.1 276	43.3 45.2 268	46.9 46.0 261	50.7 47.7 253	54.9 50.5 245	59.6 54.6 238	30.5 49.8 305	37.0 43.8 298	41.0 41.3 290	44.7 39.9 281	48.3 39.4 272	51.8 39.8 264	55.5 41.2 255	59.6 43.8 247	64.3 47.7 238	32.5 50.2 312	39.0 43.5 306	45.5 37.5 298	49.6 35.1 288	53.2 33.9 278	56.7 33.9 268	60.3 34.9 258	64.3 37.1 248	68.9 40.9 238	59.6 54.6 238	54.5 47.7 238	49.4 40.9 238	44.3 34.1 238	39.2 27.3 238	34.2 20.5 238	29.1 13.6 238	24.0 6.8 238	18.9 0.0 0	96.9 0.0 0	96.9 0.0 0	96.9 0.0 0	96.9 0.0 0
10	30.1 28.5 31	35.1 25.6 53	39.8 26.8 75	45.9 32.9 97	48.7 35.8 113	52.6 41.6 123	56.8 48.6 130	61.1 56.0 134	65.4 63.7 138	33.8 38.0 31	39.0 34.6 48	43.6 34.3 64	48.6 36.9 80	54.9 43.9 97	57.5 46.1 110	61.2 51.4 119	65.3 57.7 125	69.5 64.8 130	37.6 47.6 31	42.8 43.8 44	47.5 42.6 57	52.2 43.7 71	57.4 47.4 84	63.9 54.9 97	66.3 56.7 108	69.9 61.3 115	73.8 67.3 121	96.9 0.0 0	96.2 11.0 97	95.4 22.0 97	94.7 32.9 97	93.9 43.9 97	93.2 54.9 97	92.4 65.9 97	91.7 76.9 97	90.9 87.8 97	18.9 0.0 0	18.9 0.0 0	18.9 0.0 0	18.9 0.0 0
11	30.2 26.9 18	36.1 19.0 31	41.0 17.1 64	46.6 22.0 97	49.8 25.7 119	53.9 32.4 130	58.2 39.9 136	62.5 47.7 141	66.8 55.8 144	33.9 36.2 22	39.8 28.5 31	44.9 25.6 53	49.6 26.8 75	55.7 32.9 97	58.5 35.8 113	62.4 41.6 123	66.6 48.6 130	70.8 56.0 134	37.7 45.6 23	43.6 38.0 31	48.7 34.6 48	53.4 34.3 64	58.3 36.9 80	64.7 43.9 97	67.3 46.1 110	71.0 51.4 119	75.0 57.7 125	88.3 6.3 298	87.1 0.0 0	86.4 11.0 97	85.7 22.0 97	84.9 32.9 97	84.2 43.9 97	83.4 54.9 97	82.7 65.9 97	81.9 76.9 97	24.1 0.0 0	24.1 0.0 0	24.1 0.0 0	24.1 0.0 0
12	30.3 26.7 5	36.2 17.8 12	42.1 9.5 31	47.4 11.0 97	51.0 16.2 130	55.3 23.9 141	59.6 32.0 146	63.9 40.2 149	68.2 48.6 151	34.0 35.5 12	39.9 26.9 18	45.9 19.0 31	50.8 17.1 64	56.4 22.0 97	59.6 25.7 119	63.7 32.4 130	67.9 39.9 136	72.2 47.7 141	37.8 44.6 16	43.7 36.2 22	49.6 28.5 31	54.6 25.6 53	59.3 26.8 75	65.4 32.9 97	68.2 35.8 113	72.1 41.6 123	76.3 48.6 130	79.8 12.5 298	78.6 6.3 298	77.4 0.0 0	76.6 11.0 97	75.9 22.0 97	75.2 32.9 97	74.4 43.9 97	73.7 54.9 97	72.9 65.9 97	29.3 0.0 0	29.3 0.0 0	29.3 0.0 0	29.3 0.0 0
13	30.4 28.0 353	36.3 18.6 353	42.2 9.3 353	48.1 0.0 0	52.4 8.6 162	56.6 17.2 162	60.8 25.7 162	65.0 34.3 162	69.3 42.9 162	34.1 35.9 2	40.0 26.7 5	46.0 17.8 12	51.9 9.5 31	57.1 11.0 97	60.8 16.2 130	65.1 23.9 141	69.4 32.0 146	73.6 40.2 149	37.9 44.4 8	43.8 35.5 12	49.7 26.9 18	55.6 19.0 31	60.5 17.1 64	66.2 22.0 97	69.3 25.7 119	73.4 32.4 130	77.7 39.9 136	71.2 18.8 298	70.0 12.5 298	68.8 6.3 298	67.6 0.0 0	66.9 11.0 97	66.2 22.0 97	65.4 32.9 97	64.7 43.9 97	63.9 54.9 97	34.5 0.0 0	34.5 0.0 0	34.5 0.0 0	34.5 0.0 0
14	30.5 30.2 339	36.7 21.5 334	42.9 13.3 325	49.3 6.3 298	53.2 6.8 238	57.6 12.0 200	61.9 19.1 188	66.2 26.8 181	70.5 34.7 178	34.2 37.3 353	40.1 28.0 353	46.1 18.6 353	52.0 9.3 353	57.9 0.0 0	62.1 8.6 162	66.3 17.2 162	70.6 25.7 162	74.8 34.3 162	38.0 45.1 0	43.9 35.9 2	49.8 26.7 5	55.7 17.8 12	61.6 9.5 31	66.9 11.0 97	70.5 16.2 130	74.8 23.9 141	79.1 32.0 146	62.6 25.0 298	61.5 18.8 298	60.3 12.5 298	59.1 6.3 298	57.9 0.0 0	57.1 11.0 97	56.4 22.0 97	55.7 32.9 97	54.9 43.9 97	39.7 0.0 0	39.7 0.0 0	39.7 0.0 0	39.7 0.0 0
15	31.4 34.7 331	37.6 26.6 325	44.0 19.1 316	50.5 12.5 298	54.3 11.3 268	58.3 13.6 238	62.6 17.9 213	67.0 24.0 200	71.3 30.9 193	34.2 39.1 342	40.3 30.2 339	46.4 21.5 334	52.6 13.3 325	59.1 6.3 298	63.0 6.8 238	67.3 12.0 200	71.6 19.1 188	75.9 26.8 181	38.1 46.6 353	44.0 37.3 353	49.9 28.0 353	55.8 18.6 353	61.7 9.3 353	67.6 0.0 0	71.9 8.6 162	76.1 17.2 162	80.3 25.7 162	54.1 31.3 298	52.9 25.0 298	51.7 18.8 298	50.5 12.5 298	49.3 6.3 298	48.1 0.0 0	47.4 11.0 97	46.6 22.0 97	45.9 32.9 97	44.9 0.0 0	44.9 0.0 0	44.9 0.0 0	44.9 0.0 0
16	32.4 39.9 325	38.8 32.3 320	45.2 25.1 312	51.7 18.8 298	55.5 17.0 278	59.1 17.4 258	63.4 20.5 238	67.7 24.2 219	72.0 29.7 208	34.9 43.1 334	41.1 34.7 331	47.4 26.6 325	53.8 19.1 316	60.3 12.5 298	64.0 11.3 268	68.1 13.6 238	72.4 17.9 213	76.7 24.0 200	38.0 48.1 344	44.0 39.1 342	50.0 30.2 339	56.2 21.5 334	62.4 13.3 325	68.8 6.3 298	72.7 6.8 238	77.1 12.0 200	81.4 19.1 188	45.5 37.5 298	44.3 31.3 298	43.1 25.0 298	42.0 18.8 298	40.8 12.5 298	39.6 6.3 298	38.4 0.0 0	37.6 11.0 97	36.9 22.0 97	50.1 0.0 0	50.1 0.0 0	50.1 0.0 0	50.1 0.0 0
17	33.5 45.5 322	39.9 38.1 316	46.4 31.2 309	52.9 25.0 298	56.8 22.9 283	60.4 22.6 268	64.0 23.9 253	68.5 27.3 238	72.8 30.7 223	35.9 48.0 329	42.2 39.9 325	48.5 32.3 320	55.0 25.1 312	61.5 18.8 298	65.3 17.0 278	68.9 17.4 258	73.2 20.5 238	77.4 24.2 219	38.5 51.7 337	44.7 43.1 334	50.9 34.7 331	57.1 26.6 325	63.5 19.1 316	70.0 12.5 298	73.8 11.3 268	77.8 13.6 238	82.1 17.9 213	37.0 43.8 298	35.8 37.5 298	34.6 31.3 298	33.4 25.0 298	32.2 18.8 298	31.0 12.5 298	29.8 6.3 298	28.6 0.0 0	27.9 11.0 97	55.3 0.0 0	55.3 0.0 0	55.3 0.0 0	55.3 0.0 0
18	34.6 51.3 319	41.1 44.1 314	47.6 37.4 307	54.1 31.3 298	58.1 29.0 286	61.7 28.2 274	65.2 28.6 262	69.0 30.4 250	73.6 34.1 238	36.9 53.3 325	43.3 45.5 322	49.7 38.1 316	56.1 31.2 309	62.6 25.0 298	66.6 22.9 283	70.1 22.6 268	73.8 23.9 253	78.3 27.3 238	39.4 56.2 332	45.6 48.0 329	51.9 39.9 325	58.3 32.3 320	64.7 25.1 312	71.2 18.8 298	75.1 17.0 278	78.6 17.4 258	82.9 20.5 238	28.4 50.1 298	27.2 43.8 298	26.0 37.5 298	24.8 31.3 298	23.6 25.0 298	22.5 18.8 298	21.3 12.5 298	20.1 6.3 298	18.9 0.0 0	60.5 0.0 0	60.5 0.0 0	60.5 0.0 0	60.5 0.0 0
19	41.3 57.1 31	46.6 53.0 42	51.3 51.3 53	56.0 51.4 64	60.8 53.5 75	66.2 58.0 86	72.9 65.9 97	75.2 67.3 106	78.6 71.5 113	45.0 66.6 31	50.4 62.4 41	55.2 60.2 50	59.8 59.7 59	64.5 60.8 69	69.5 63.6 78	75.1 68.7 87	81.9 76.9 97	84.1 78.0 105	48.7 76.1 31	54.1 71.7 39	59.0 69.2 48	63.7 68.2 56	68.3 68.6 64	73.1 70.4 72	78.2 73.9 80	84.0 79.5 89	90.9 87.8 97	96.9 0.0 0	91.4 8.6 162	85.8 17.2 162	80.3 25.7 162	74.8 34.3 162	69.3 42.9 162	63.7 51.5 162	58.2 60.1 162	52.7 68.6 162	65.7 0.0 0	65.7 0.0 0	65.7 0.0 0	65.7 0.0 0
20	41.4 55.0 25	47.3 47.6 31	52.5 43.8 44	57.2 42.6 57	61.9 43.7 71	67.1 47.4 84	73.7 54.9 97	76.1 56.7 108	79.6 61.3 115	45.1 64.5 26	51.0 57.1 31	56.3 53.0 42	61.1 51.3 53	65.7 51.4 64	70.5 53.5 75	76.0 58.0 86	82.7 65.9 97	85.0 67.3 106	48.9 74.0 26	54.8 66.6 31	60.1 62.4 41	65.0 60.2 50	69.6 59.7 59	74.3 60.8 69	79.2 63.6 78	84.9 68.7 87	91.7 76.9 97	91.0 9.3 353	87.1 0.0 0	81.6 8.6 162	76.1 17.2 162	70.6 25.7 162	65.0 34.3 162	59.5 42.9 162	54.0 51.5 162	48.5 60.1 162	70.9 0.0 0	70.9 0.0 0	70.9 0.0 0	70.9 0.0 0
21	41.5 53.8 18	47.4 45.6 23	53.3 38.0 31	58.5 34.6 48	63.1 34.3 64	68.1 36.9 80	74.4 43.9 97	77.0 46.1 110	80.7 51.4 119	45.2 63.1 20	51.1 55.0 25	57.1 47.6 31	62.3 43.8 44	67.0 42.6 57	71.7 43.7 71	76.9 47.4 84	83.4 54.9 97	85.8 56.7 108	49.0 72.5 22	54.9 64.5 26	60.8 57.1 31	66.1 53.0 42	70.8 51.3 53	75.5 51.4 64	80.3 53.5 75	85.7 58.0 86	92.4 65.9 97	85.1 18.6 353	81.2 9.3 353	77.4 0.0 0	71.9 8.6 162	66.3 17.2 162	60.8 25.7 162	55.3 34.3 162	49.8 42.9 162	44.2 51.5 162	76.1 0.0 0	76.1 0.0 0	76.1 0.0 0	76.1 0.0 0
22	41.6 53.3 12	47.5 44.6 16	53.4 36.2 22	59.3 28.5 31	64.4 25.6 53	69.1 26.8 75	75.2 32.9 97	78.0 35.8 113	81.9 41.6 123	45.3 62.4 15	51.3 53.8 18	57.2 45.6 23	63.1 38.0 31	68.2 34.6 48	72.9 34.3 64	77.8 36.9 80	84.2 43.9 97	86.8 46.1 110	49.1 71.5 17	55.0 63.1 20	60.9 55.0 25	66.8 47.6 31	72.0 43.8 44	76.7 42.6 57	81.4 43.7 71	86.6 47.4 84	93.2 54.9 97	79.2 28.0 353	75.3 18.6 353	71.5 9.3 353	67.6 0.0 0	62.1 8.6 162	56.6 17.2 162	51.1 25.7 162	45.5 34.3 162	40.0 42.9 162	81.3 0.0 0	81.3 0.0 0	81.3 0.0 0	81.3 0.0 0
23	41.7 53.5 5	47.6 44.4 8	53.5 35.5 12	59.4 26.9 18	65.4 19.0 31	70.3 17.1 64	75.9 22.0 97	79.1 25.7 119	83.2 32.4 130	45.4 62.2 9	51.4 53.3 12	57.3 44.6 16	63.2 36.2 22	69.1 28.5 31	74.1 25.6 53	78.8 26.8 75	84.9 32.9 97	87.7 35.8 113	49.2 71.1 12	55.1 62.4 15	61.0 53.8 18	66.9 45.6 23	72.8 38.0 31	78.0 34.6 48	82.6 34.3 64	87.6 36.9 80	93.9 43.9 97	73.2 37.3 353	69.4 28.0 353	65.6 18.6 353	61.7 9.3 353	57.9 0.0 0	52.4 8.6 162	46.8 17.2 162	41.3 25.7 162	35.8 34.3 162	86.5 0.0 0	86.5 0.0 0	86.5 0.0 0	86.5 0.0 0
24	41.8 54.3 359	47.7 45.1 0	53.6 35.9 2	59.5 26.7 5	65.5 17.8 12	71.4 9.5 31	76.6 11.0 97	80.3 16.2 130	84.6 23.9 141	45.5 62.6 4	51.5 53.5 5	57.4 44.4 8	63.3 35.5 12	69.2 26.9 18	75.1 19.0 31	80.0 17.1 64	85.7 22.0 97	88.8 25.7 119	49.3 71.2 7	55.2 62.2 9	61.1 53.3 12	67.0 44.6 16	72.9 36.2 22	78.8 28.5 31	83.9 25.6 53	88.6 26.8 75	94.7 32.9 97	67.3 46.6 353	63.5 37.3 353	59.7 28.0 353	55.8 18.6 353	52.0 9.3 353	48.1 0.0 0	42.6 8.6 162	37.1 17.2 162	31.6 25.7 162	91.7 0.0 0	91.7 0.0 0	91.7 0.0 0	91.7 0.0 0
25	41.9 55.9 353	47.8 46.6 353	53.7 37.3 353	59.7 28.0 353	65.6 18.6 353	71.5 9.3 353	77.4 0.0 0	81.6 8.6 162	85.8 17.2 162	45.6 63.6 358	51.6 54.3 359	57.5 45.1 0	63.4 35.9 2	69.3 26.7 5	75.2 17.8 12	81.1 9.5 31	86.4 11.0 97	90.0 16.2 130	49.4 71.7 2	55.3 62.6 4	61.2 53.5 5	67.1 44.4 8	73.0 35.5 12	79.0 26.9 18	84.9 19.0 31	89.8 17.1 64	95.4 22.0 97	61.4 55.9 353	57.6 46.6 353	53.7 37.3 353	49.9 28.0 353	46.1 18.6 353	42.2 9.3 353	38.4 0.0 0	32.9 8.6 162	27.3 17.2 162	96.9 0.0 0	96.9 0.0 0	96.9 0.0 0	96.9 0.0 0
26	41.7 57.1 345	47.7 48.1 344	53.7 39.1 342	59.8 30.2 339	65.9 21.5 334	72.1 13.3 325	78.6 6.3 298	82.5 6.8 238	86.8 12.0 200	45.7 65.2 353	51.7 55.9 353	57.6 46.6 353	63.5 37.3 353	69.4 28.0 353	75.3 18.6 353	81.2 9.3 353	87.1 0.0 0	91.4 8.6 162	49.5 72.9 357	55.4 63.6 358	61.3 54.3 359	67.2 45.1 0	73.1 35.9 2	79.1 26.7 5	85.0 17.8 12	90.9 9.5 31	96.2 11.0 97	55.5 65.2 353	51.7 55.9 353	47.8 46.6 353	44.0 37.3 353	40.1 28.0 353	36.3 18.6 353	32.5 9.3 353	28.6 0.0 0	23.1 8.6 162	18.9 0.0 0	48.7 76.1 31	90.9 87.8 97	52.7 68.6 162
27	42.2 60.4 339	48.3 51.7 337	54.4 43.1 334	60.6 34.7 331	66.9 26.6 325	73.3 19.1 316	79.8 12.5 298	83.5 11.3 268	87.6 13.6 238	45.5 66.3 346	51.5 57.1 345	57.5 48.1 344	63.5 39.1 342	69.5 30.2 339	75.7 21.5 334	81.9 13.3 325	88.3 6.3 298	92.2 6.8 238	49.6 74.5 353	55.5 65.2 353	61.4 55.9 353	67.3 46.6 353	73.2 37.3 353	79.2 28.0 353	85.1 18.6 353	91.0 9.3 353	96.9 0.0 0	49.6 74.5 353	45.7 65.2 353	41.9 55.9 353	38.1 46.6 353	34.2 37.3 353	30.4 28.0 353	26.6 18.6 353	22.7 9.3 353	18.9 0.0 0	96.9 0.0 0	59.6 54.6 238	28.4 50.1 298	49.6 74.5 353

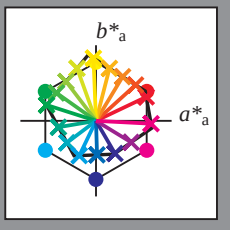
See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

BAM registration: 20081001-Ee12/10L/L12E00NP.PS/ .PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

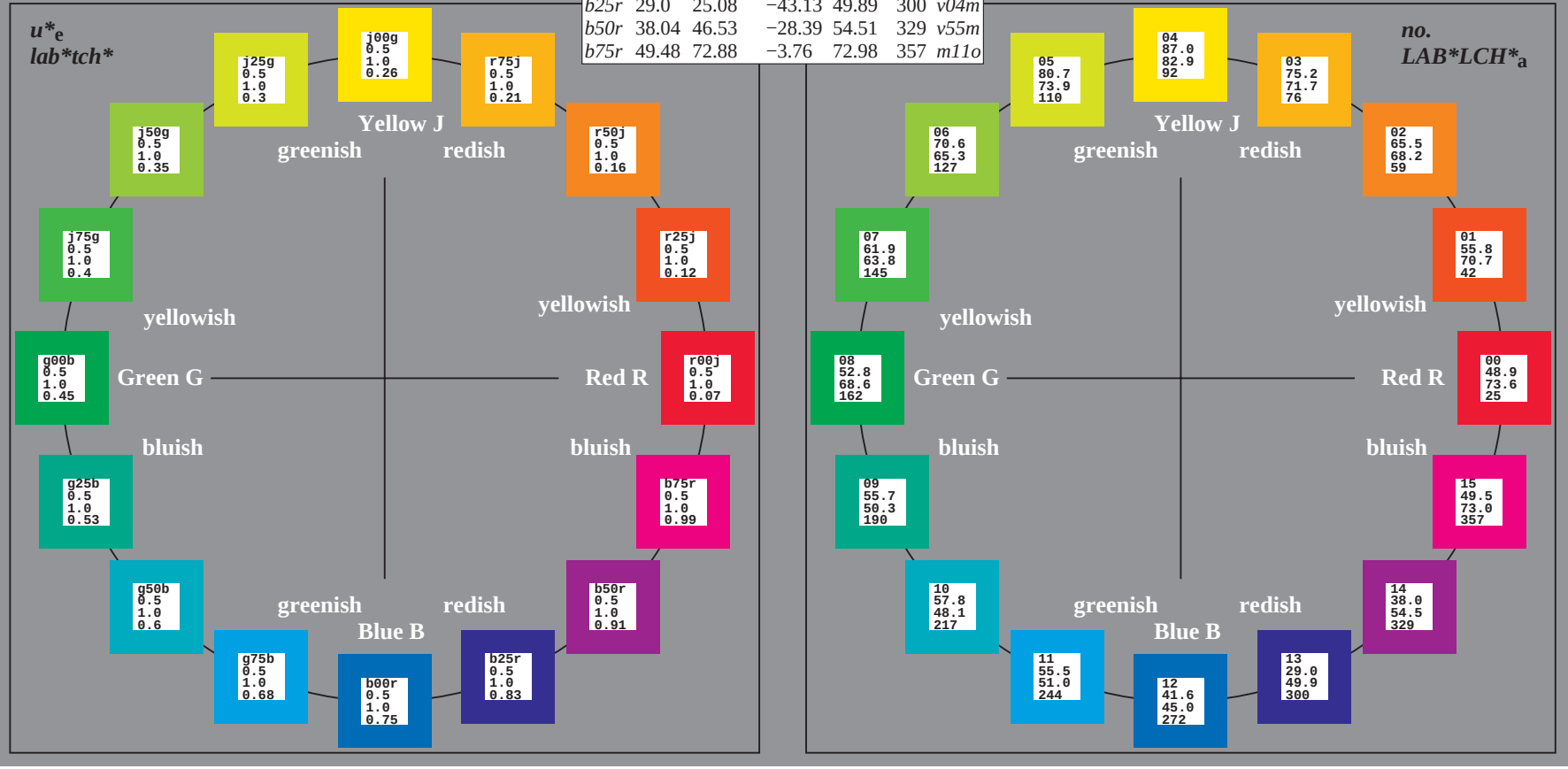
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

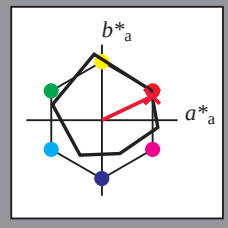
ORS19_96a; adapted (a) CIELAB data

Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

data for any colour:
lab*tch** and *lab*icu*
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

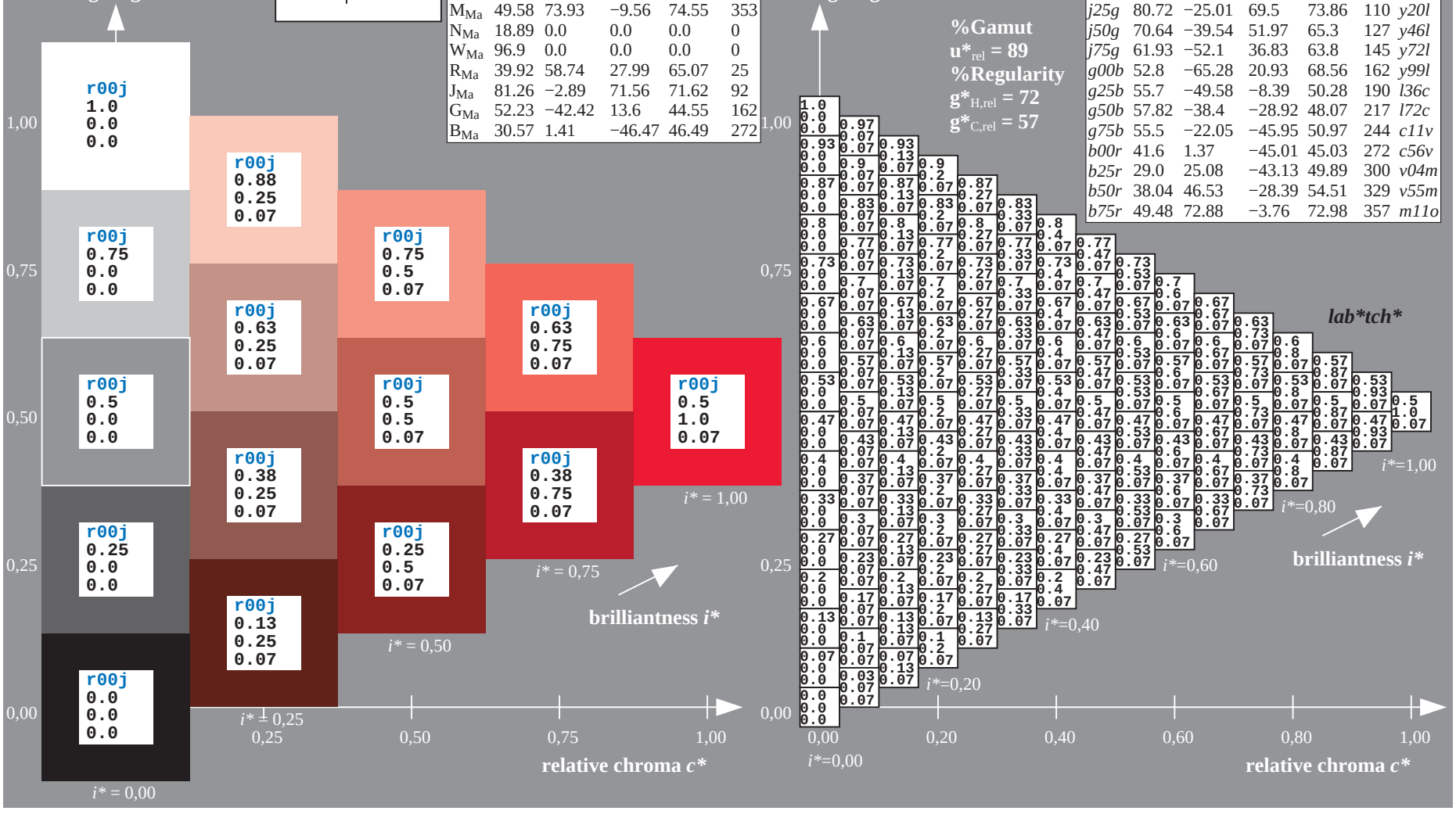
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 49 66 32
LAB*LCH*$_{Ma}$: 49 74 25
lab*rgb*$_{Ma}$: 1.0 0.0 0.0
lab*olv*$_{Ma}$: 1.0 0.0 0.15
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r00j*
lab*tch*

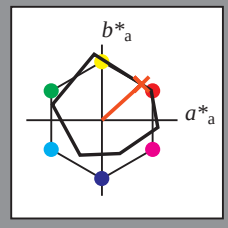
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

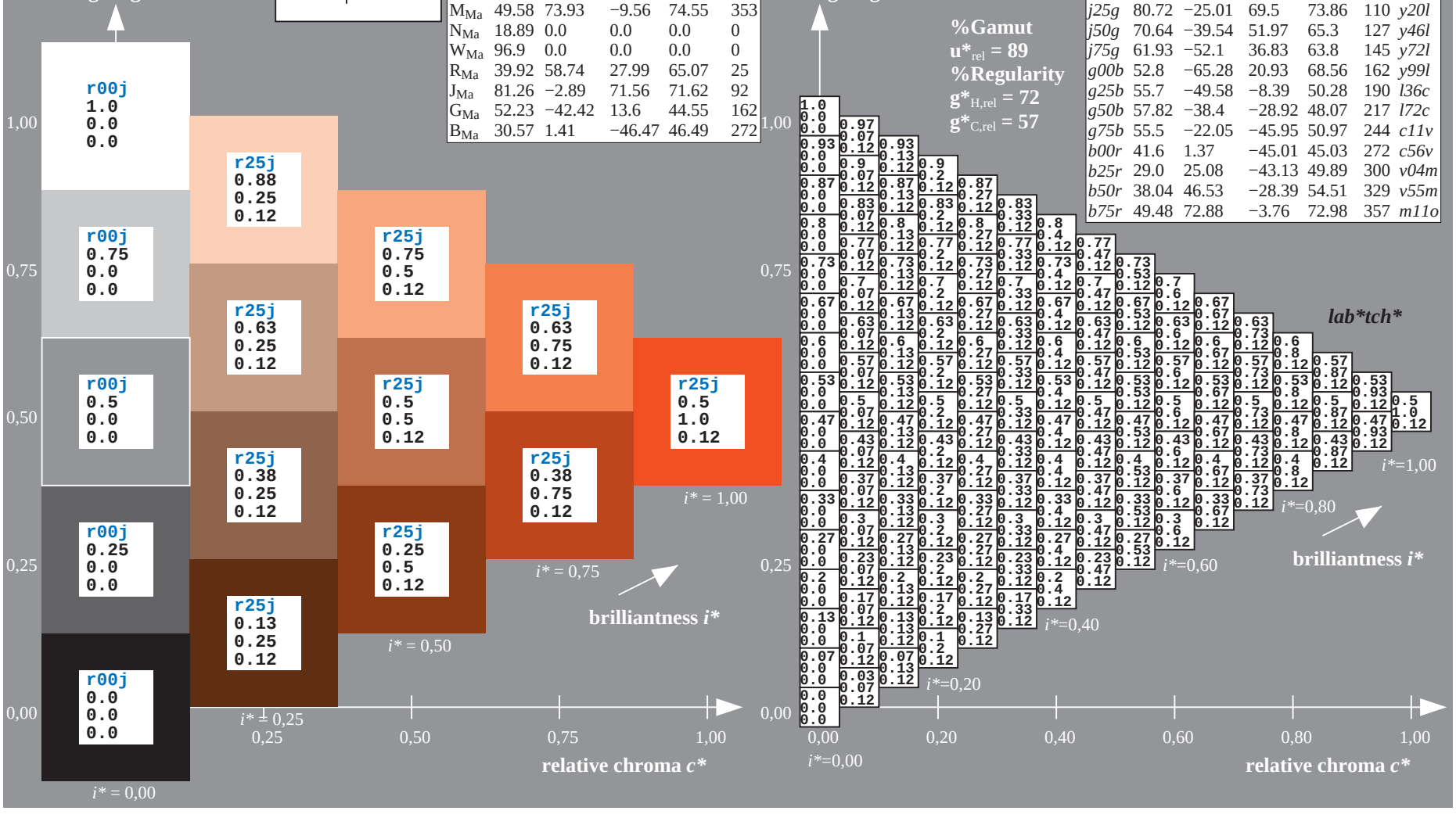
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r25j*
*lab*tch**

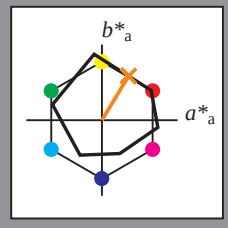
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

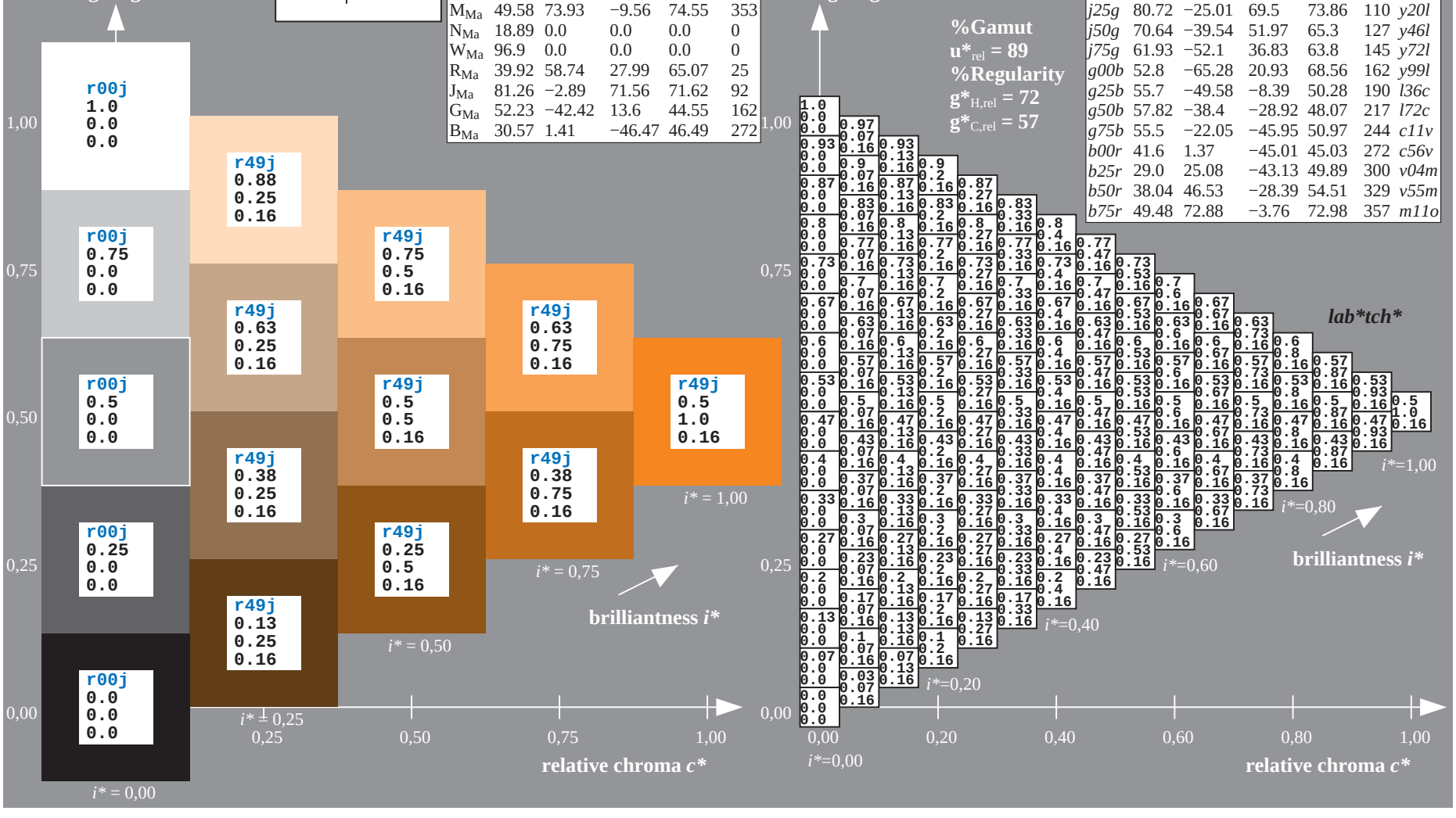
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 65 35 58
*LAB*LCH**$_{Ma}$: 65 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.42 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r50j*
*lab*tch**

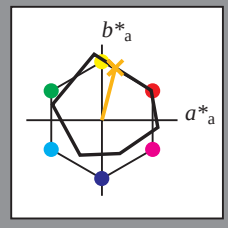
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

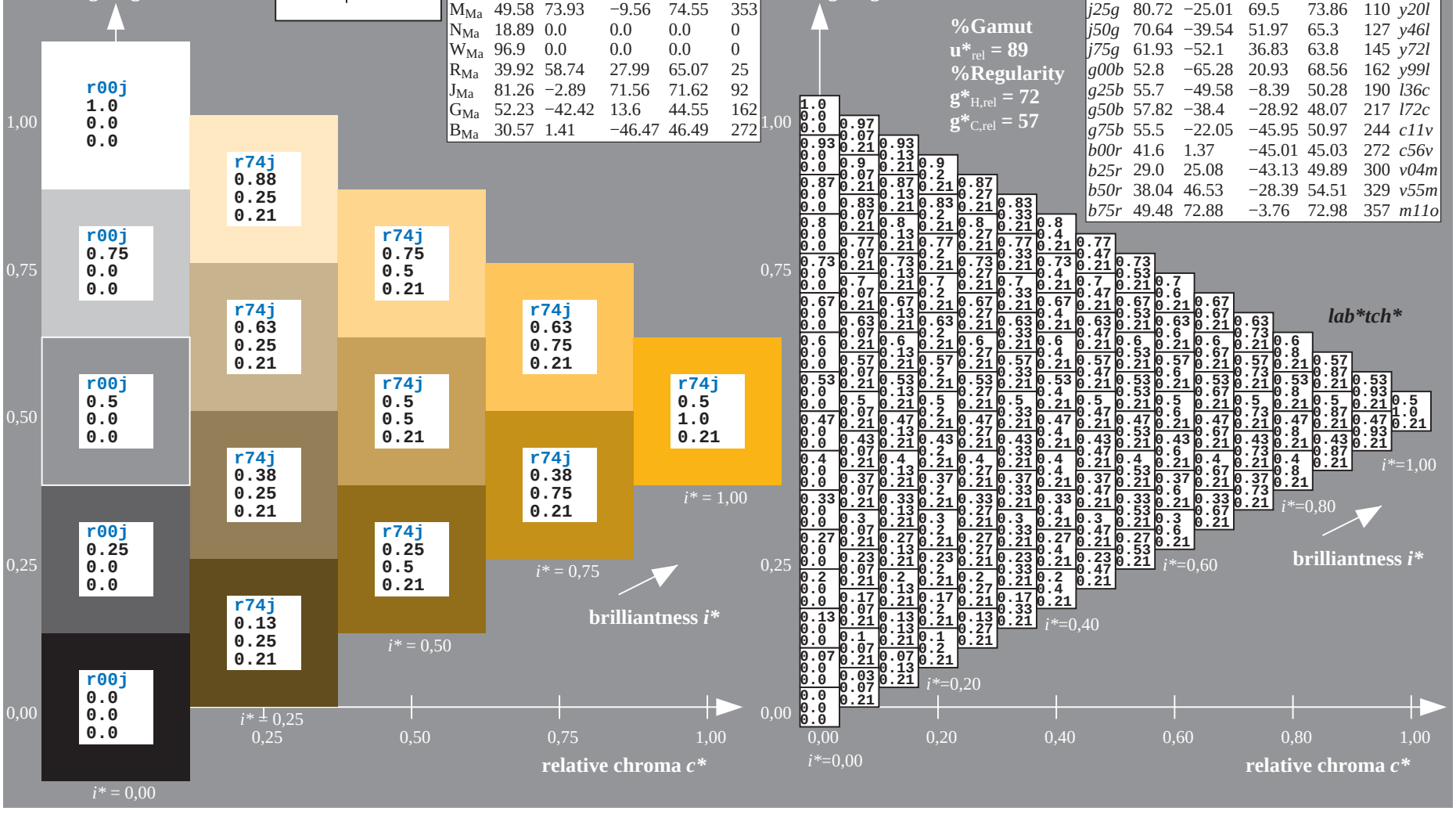
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.68 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

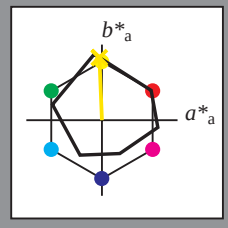
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

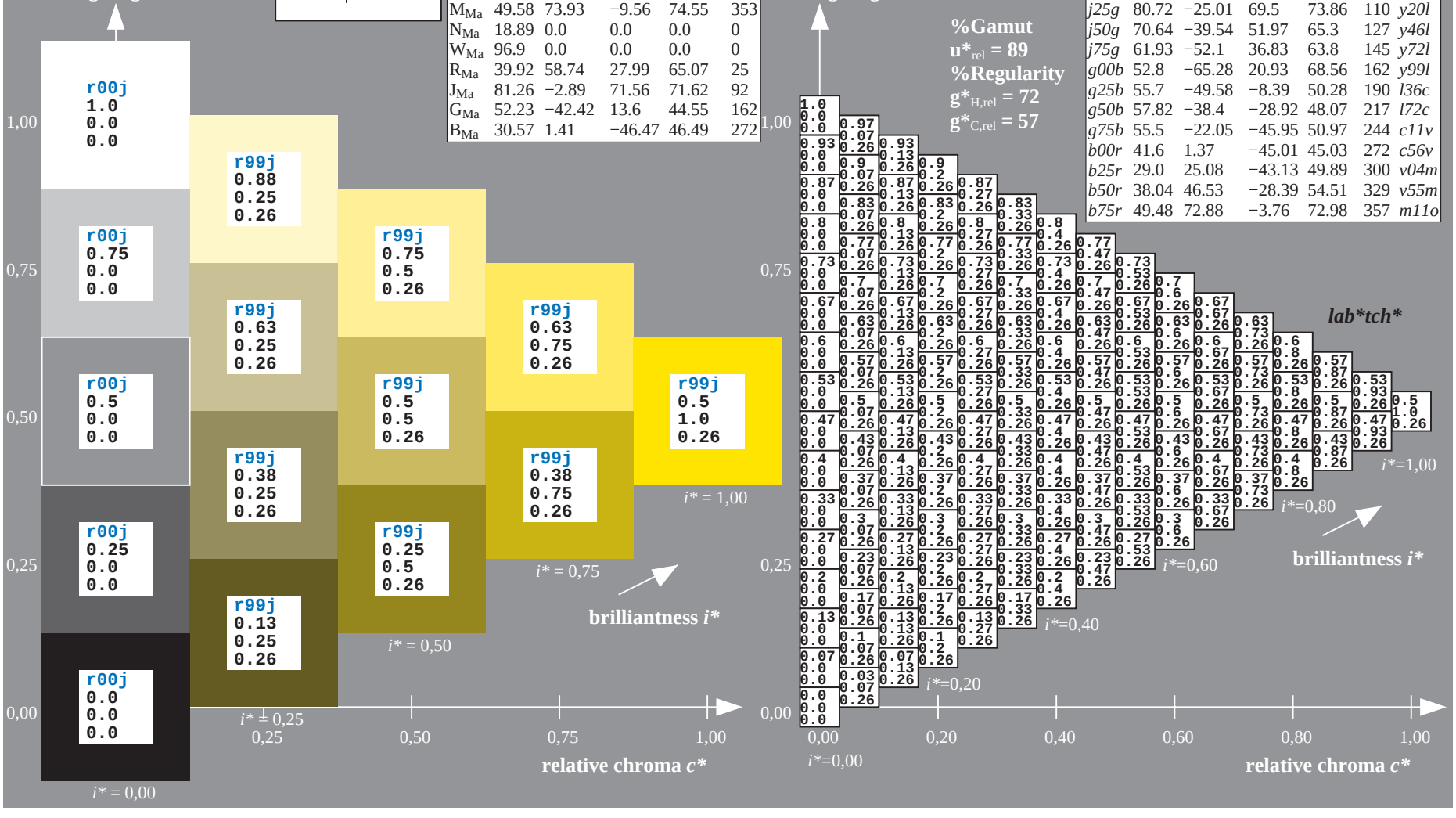
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *j00g*
*lab*tch**

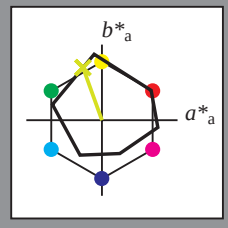
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.305**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

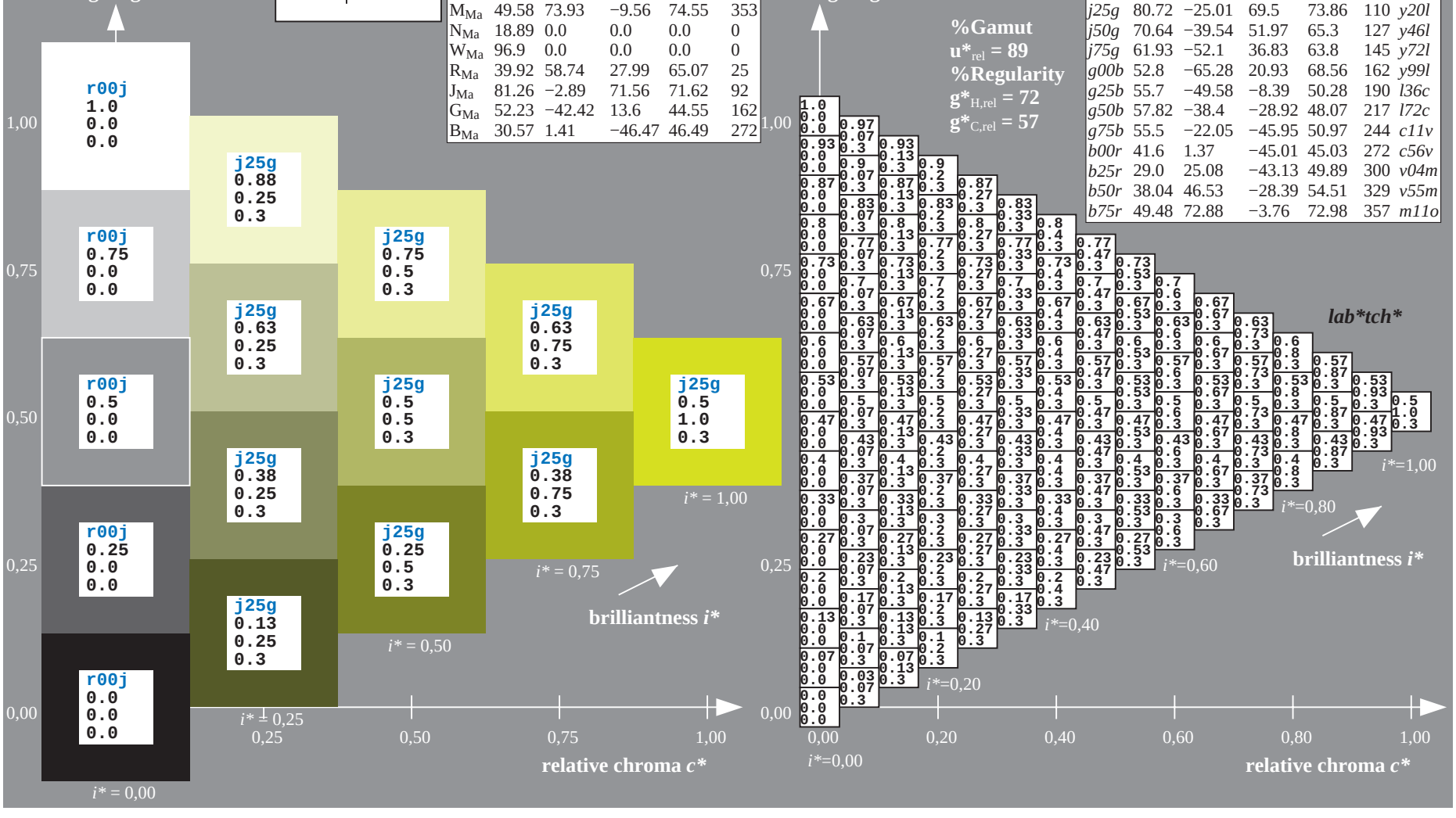
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *j25g*
*lab*tch**

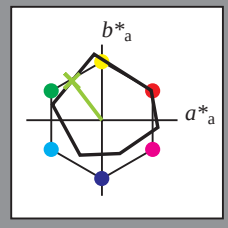
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

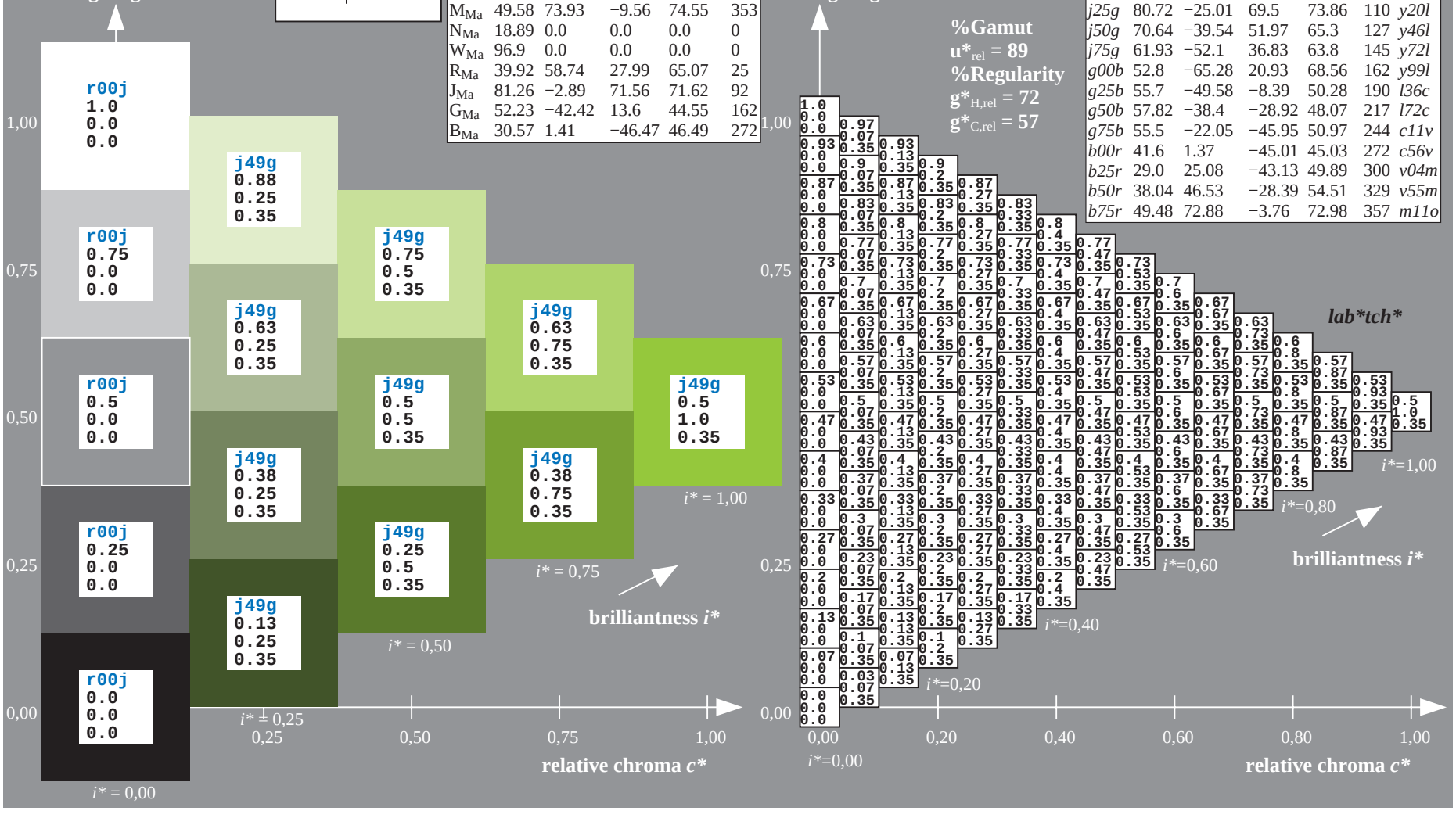
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 71 −40 52
*LAB*LCH**$_{Ma}$: 71 65 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.54 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

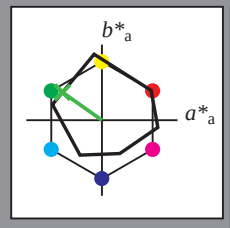
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

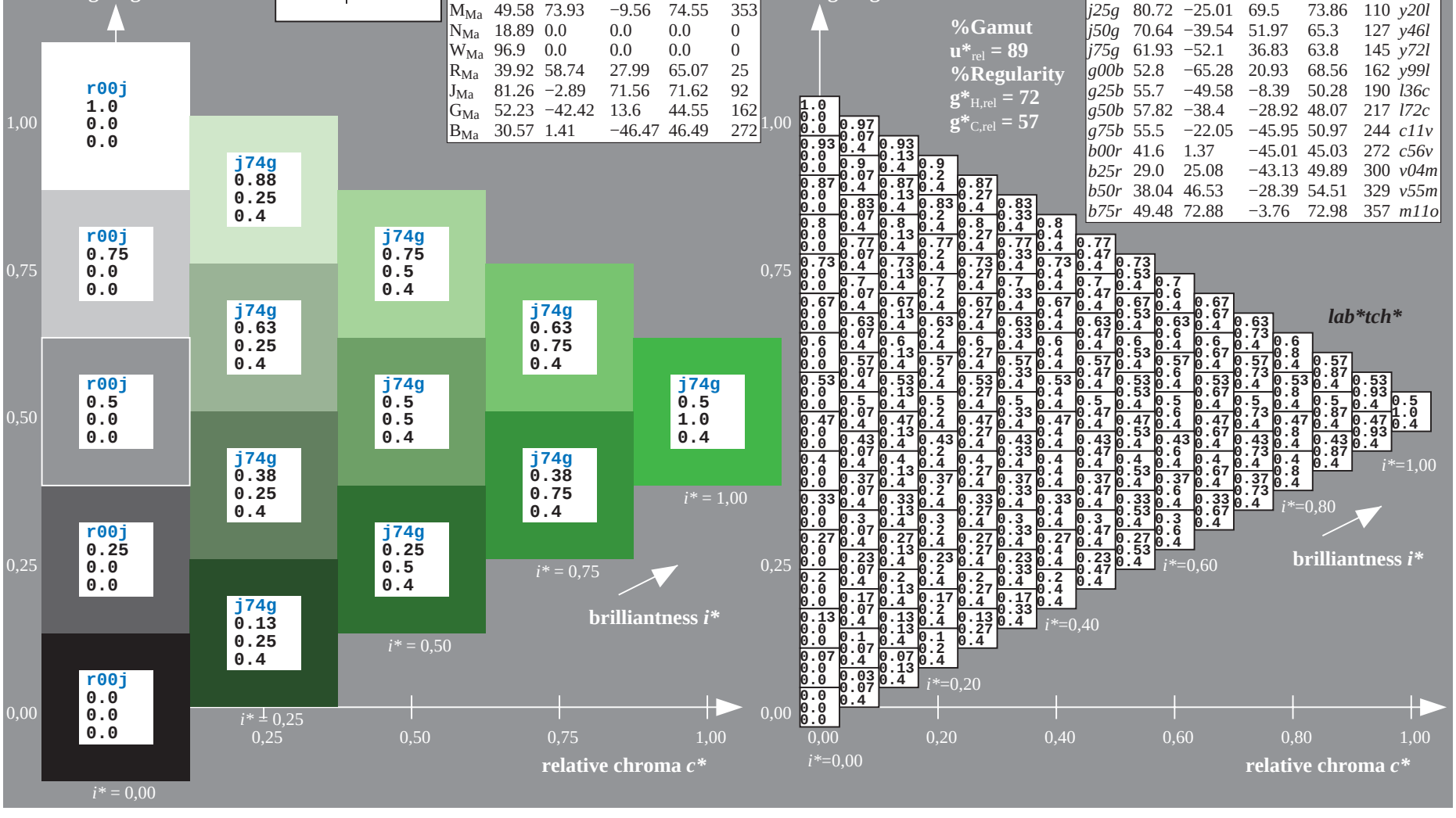
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

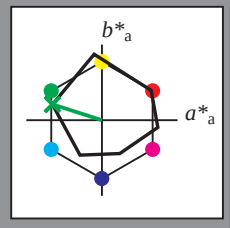
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.451**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g00b* u^*_d = *y99l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

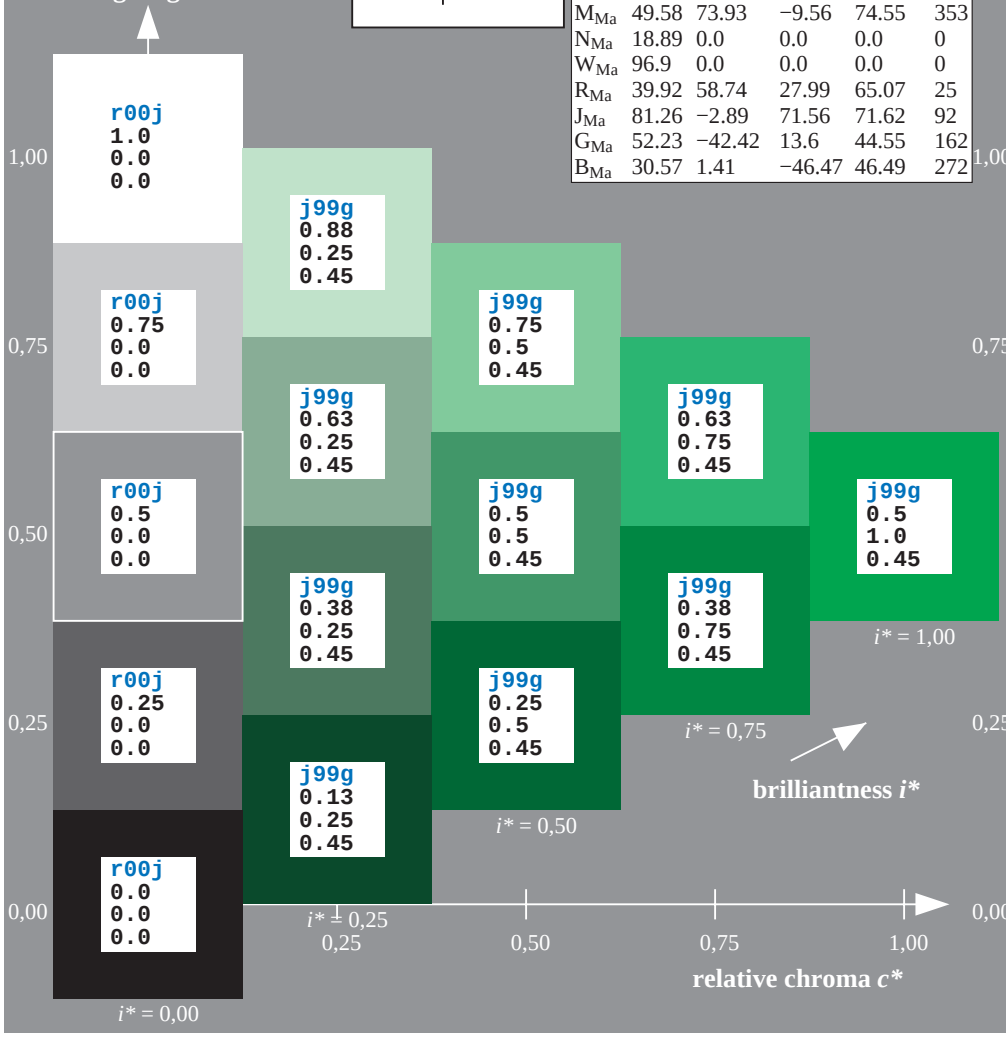
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −65 21
*LAB*LCH**$_{Ma}$: 53 69 162
*lab*rgb**$_{Ma}$: 0.0 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.0
triangle lightness *t**

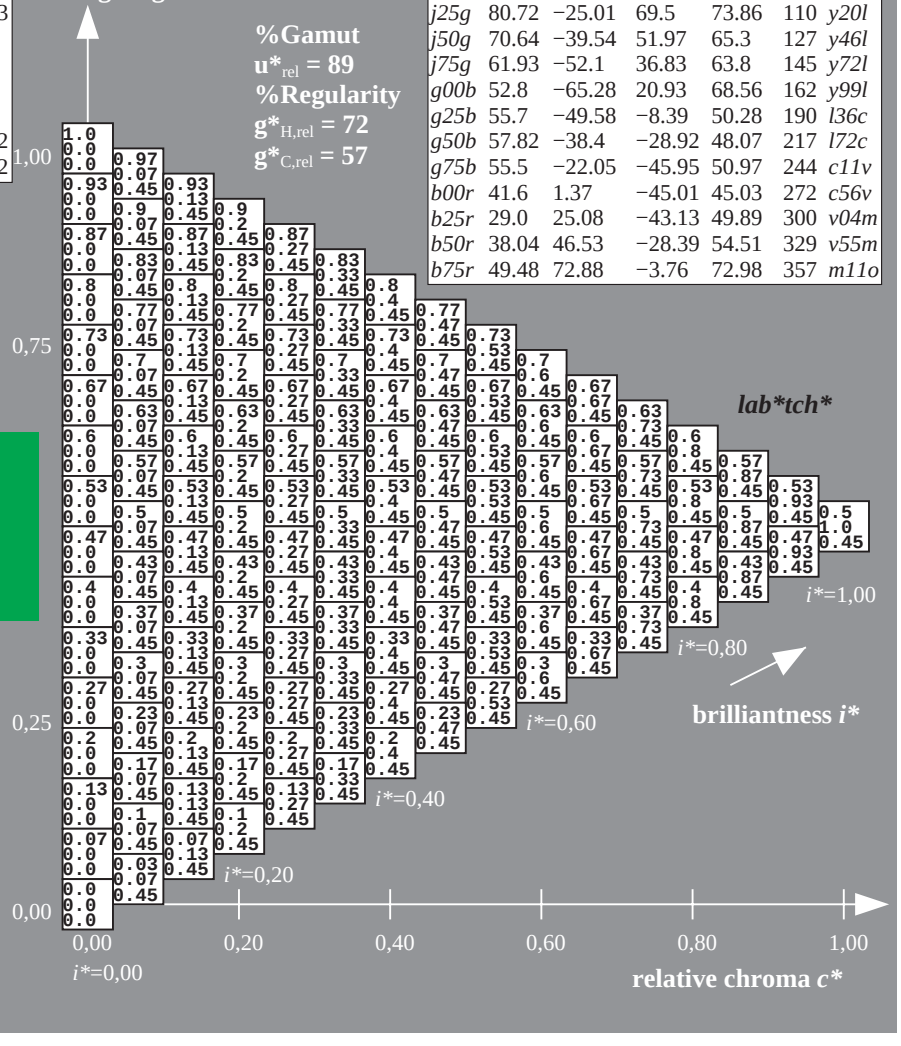
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g00b*
*lab*tch**

ORS19_96a; adapted (a) CIELAB data

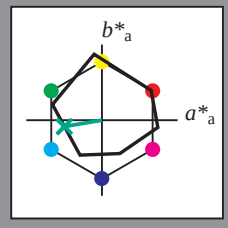
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.527**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

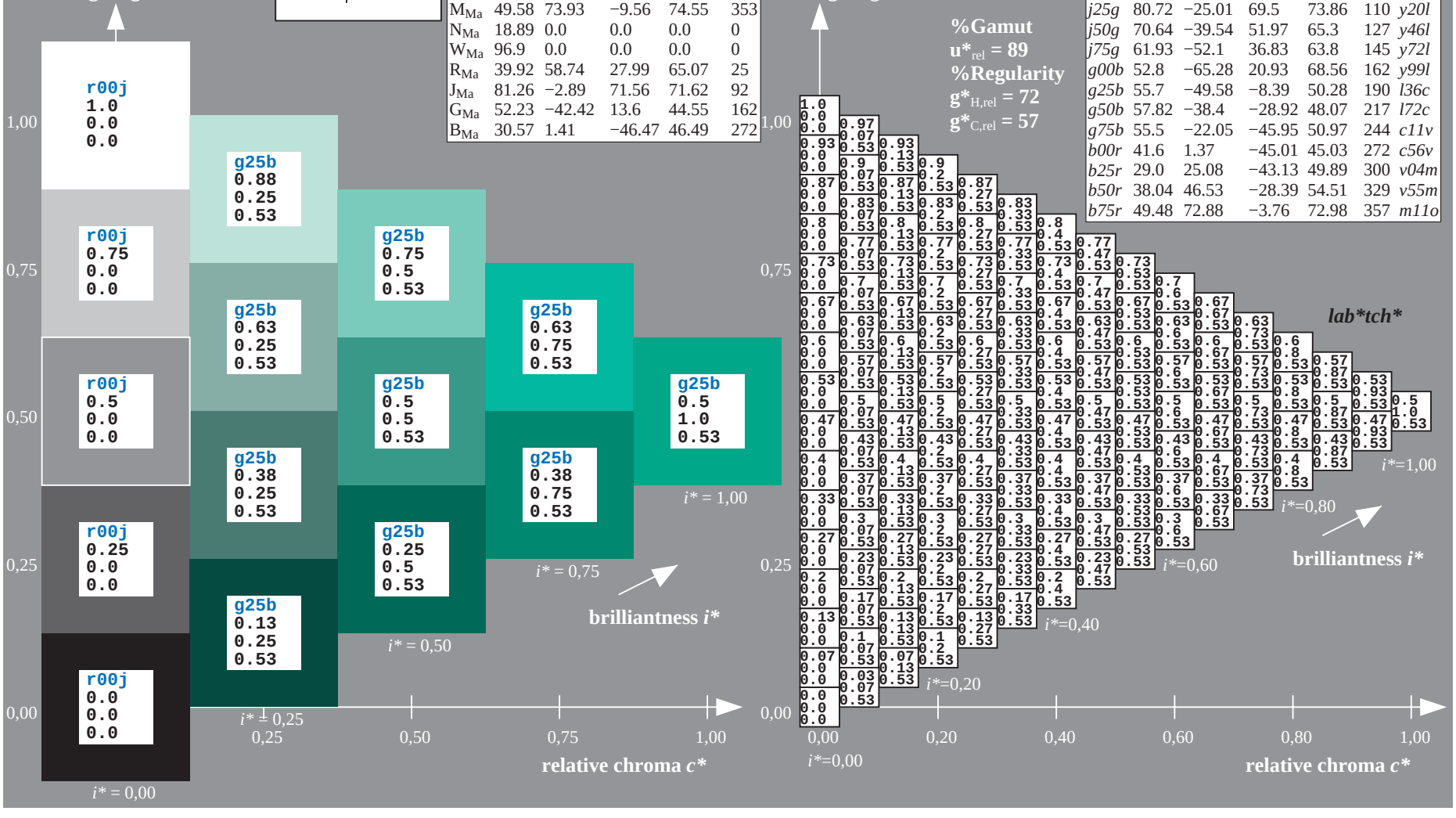
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 −50 −8
*LAB*LCH**$_{Ma}$: 56 50 189
*lab*rgb**$_{Ma}$: 0.0 1.0 0.5
*lab*olv**$_{Ma}$: 0.0 1.0 0.36
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

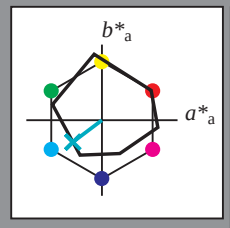
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.603**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g50b* u^*_d = *l72c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

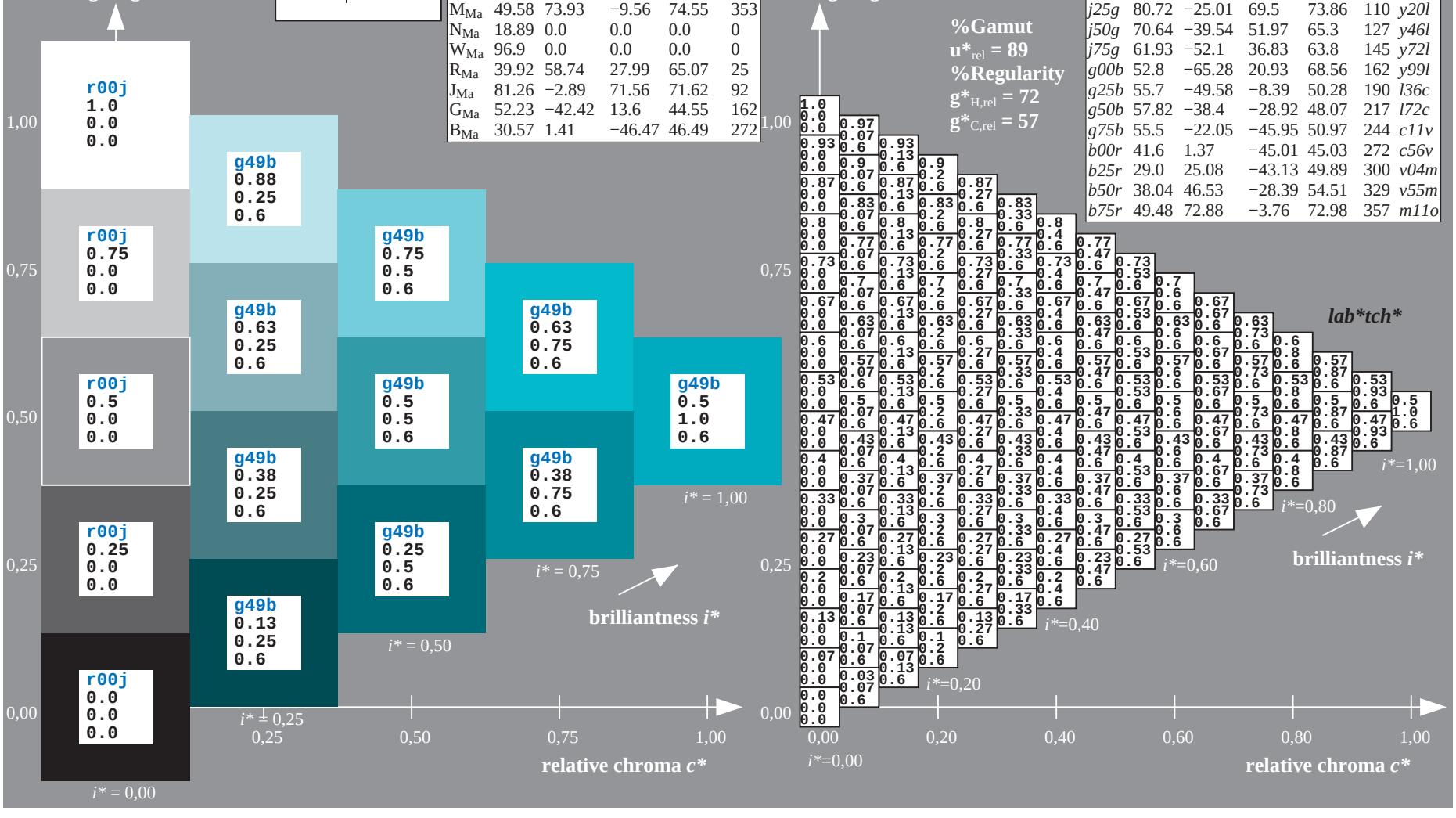
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 58 −38 −29
*LAB*LCH**$_{Ma}$: 58 48 216
*lab*rgb**$_{Ma}$: 0.0 1.0 1.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.72
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

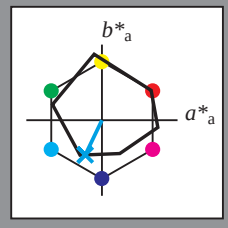
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.679**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g75b* u^*_d = *c11v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

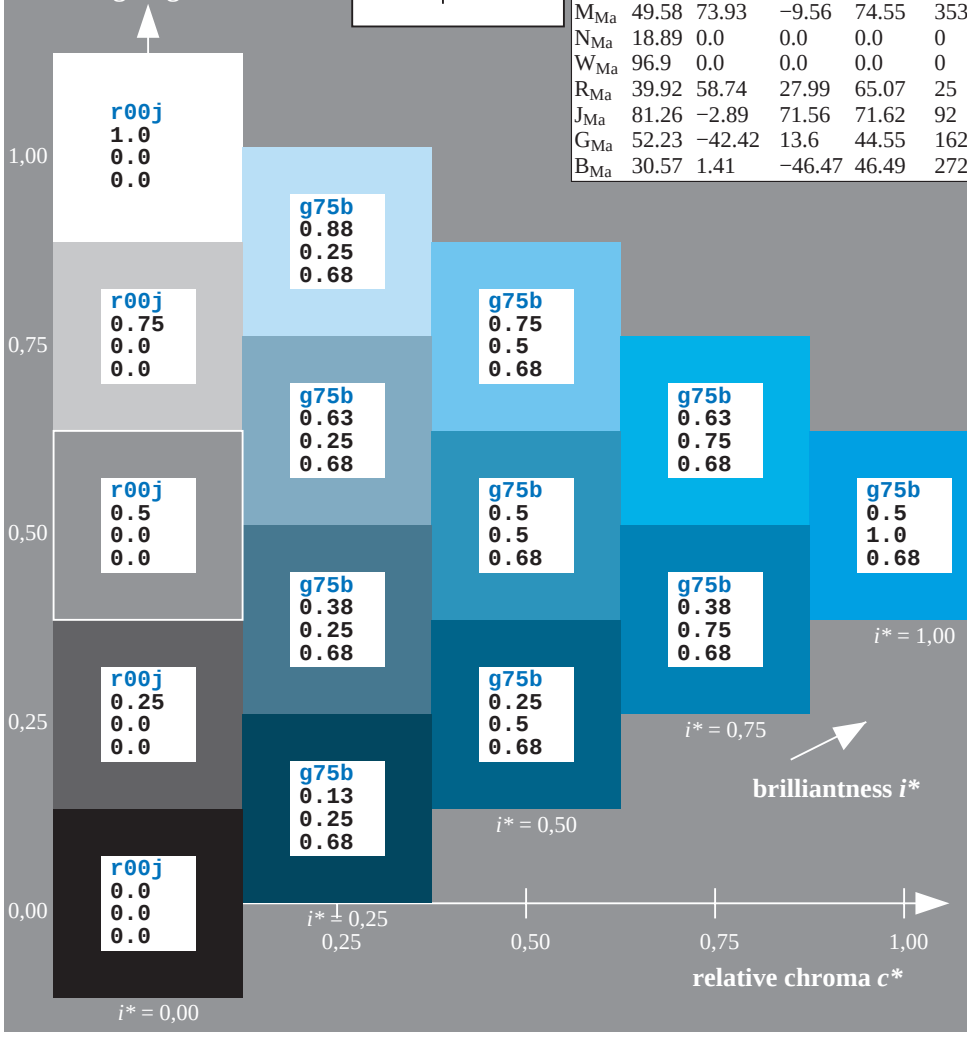
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 55 −22 −46
*LAB*LCH**$_{Ma}$: 55 51 244
*lab*rgb**$_{Ma}$: 0.0 0.5 1.0
*lab*olv**$_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

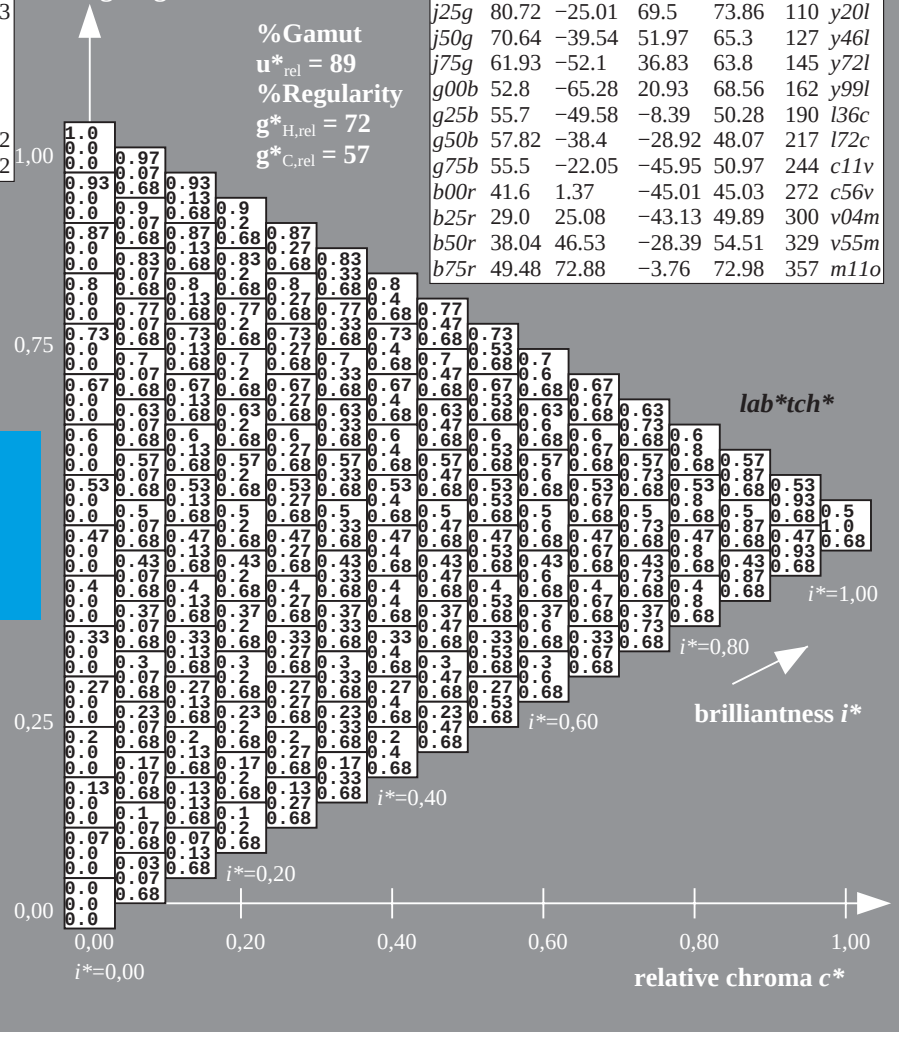
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g75b*
*lab*tch**

ORS19_96a; adapted (a) CIELAB data

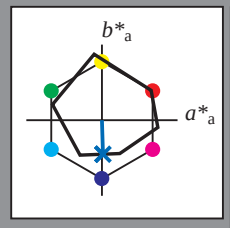
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.755**

data for any colour:
lab*tch** and *lab*icu*
Hue texts:
u*e* = *b00r* *u*d* = *c56v
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

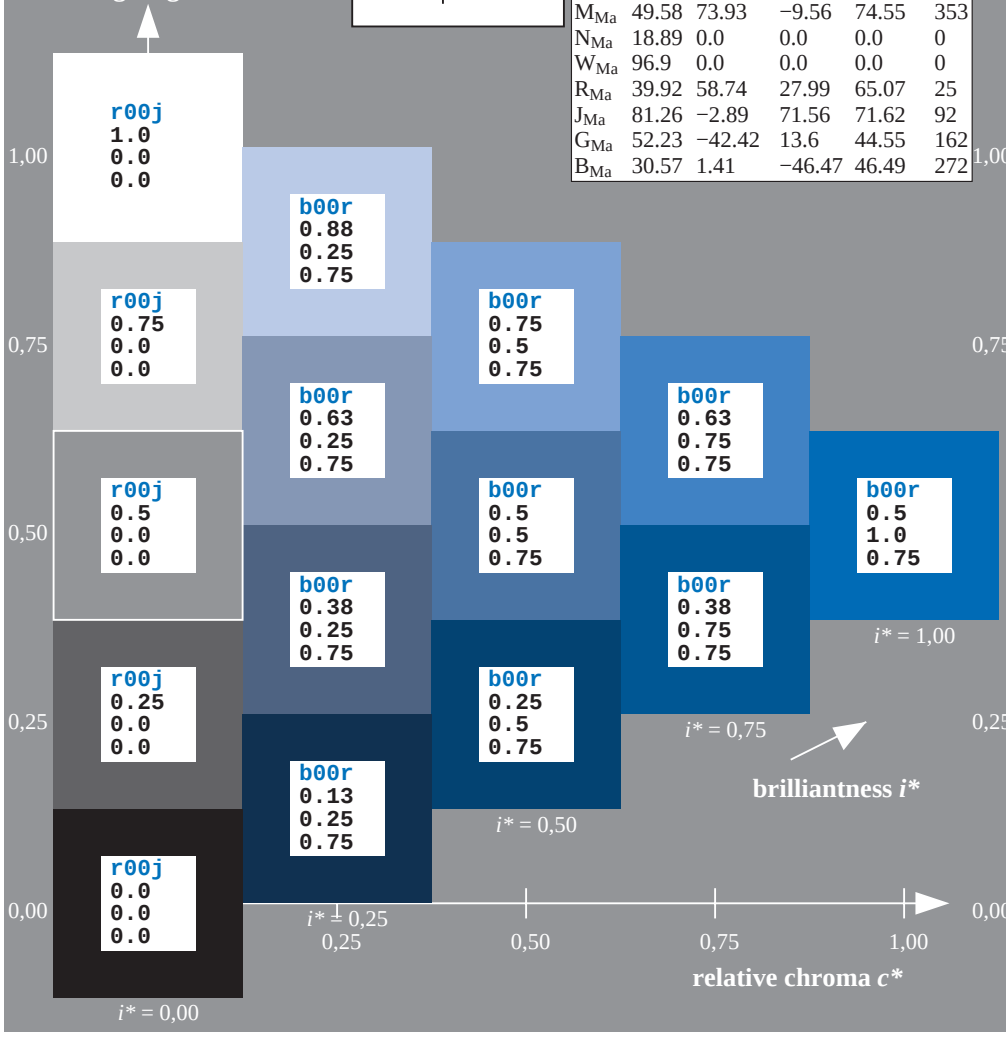
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

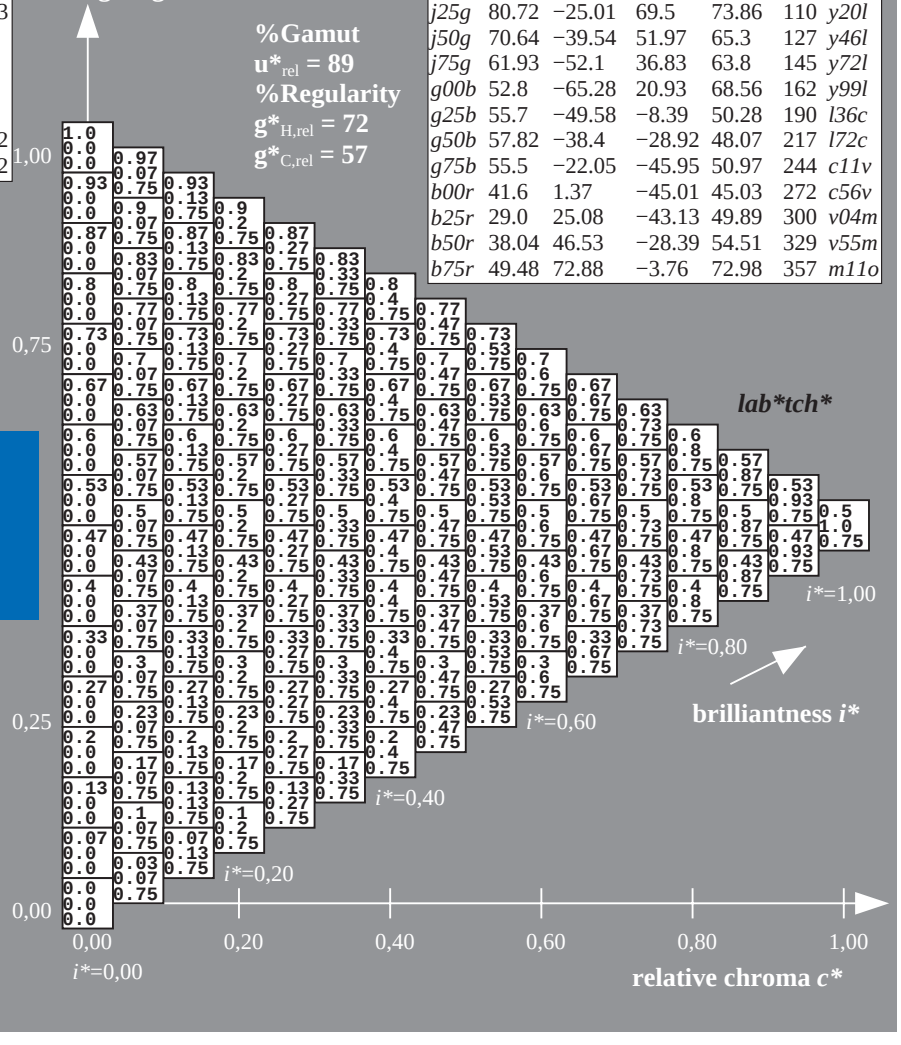
Data for maximum colour (Ma):
***LAB*LAB**Ma*: 42 1 −45**
***LAB*LCH**Ma*: 42 45 271**
***lab*rgb**Ma*: 0.0 0.0 1.0**
***lab*olv**Ma*: 0.0 0.44 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

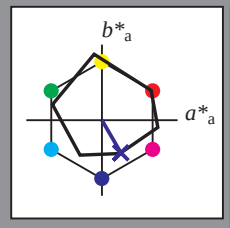




input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.834**

data for any colour:
lab*tch** and *lab*icu*
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

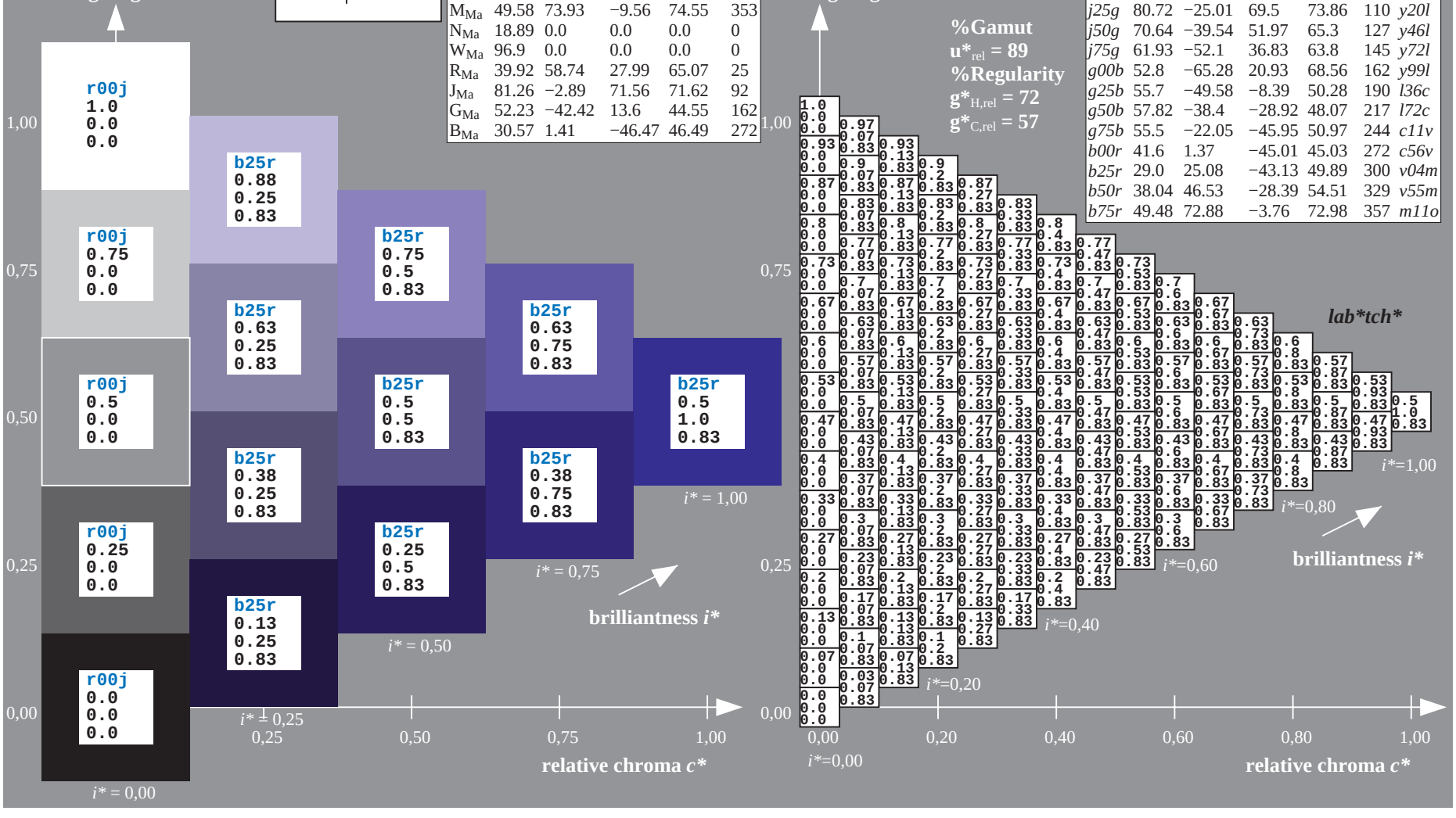
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
***LAB*LAB**$_{Ma}$: 29 25 −43**
***LAB*LCH**$_{Ma}$: 29 50 300**
***lab*rgb**$_{Ma}$: 0.5 0.0 1.0**
***lab*olv**$_{Ma}$: 0.04 0.0 1.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

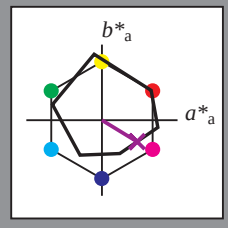
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.913**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

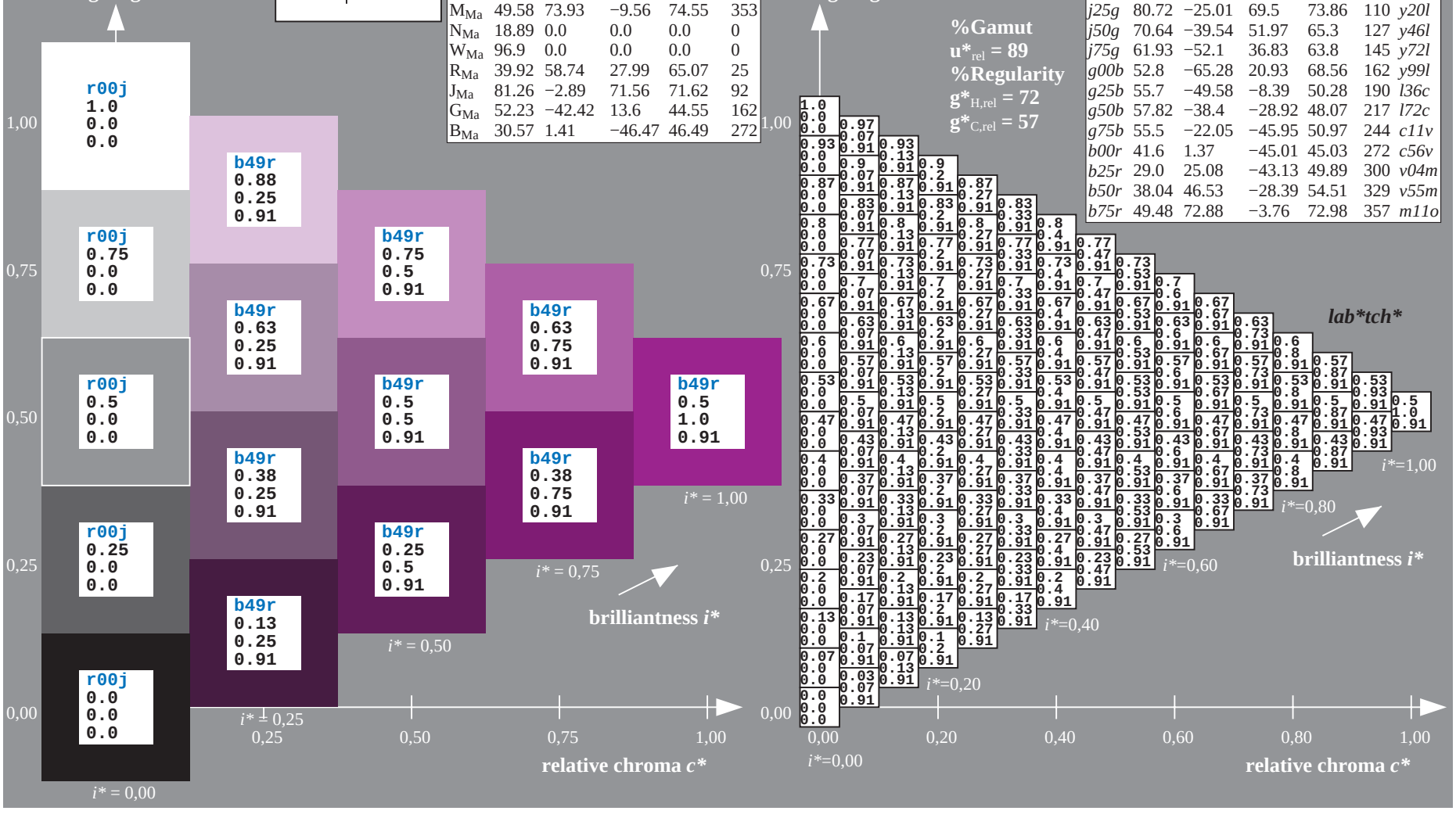
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 47 −28
*LAB*LCH**$_{Ma}$: 38 55 328
*lab*rgb**$_{Ma}$: 1.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.56 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

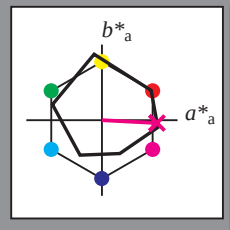
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

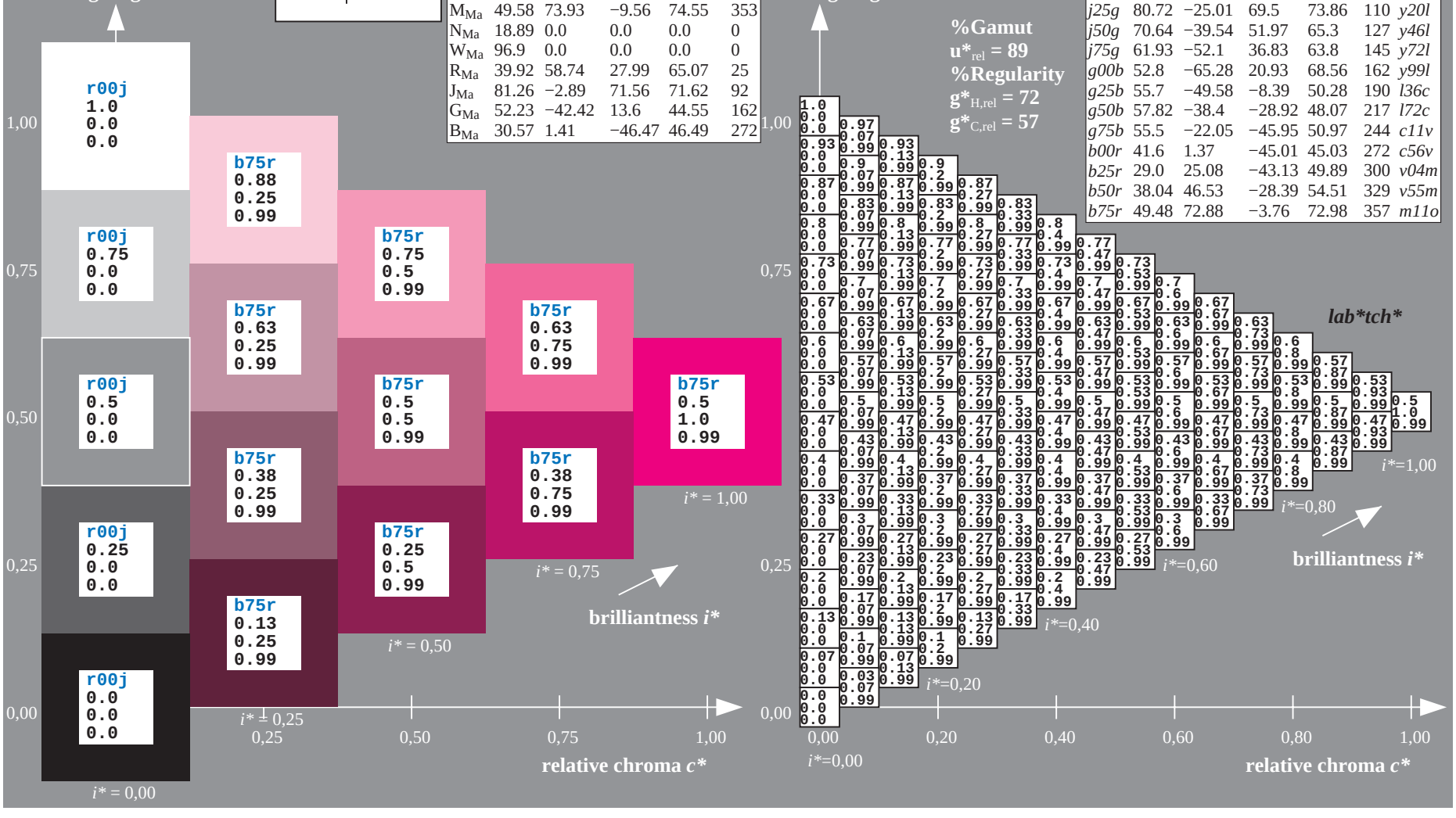
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 73 −4
*LAB*LCH**$_{Ma}$: 49 73 357
*lab*rgb**$_{Ma}$: 1.0 0.0 0.5
*lab*olv**$_{Ma}$: 1.0 0.0 0.89
triangle lightness *t**

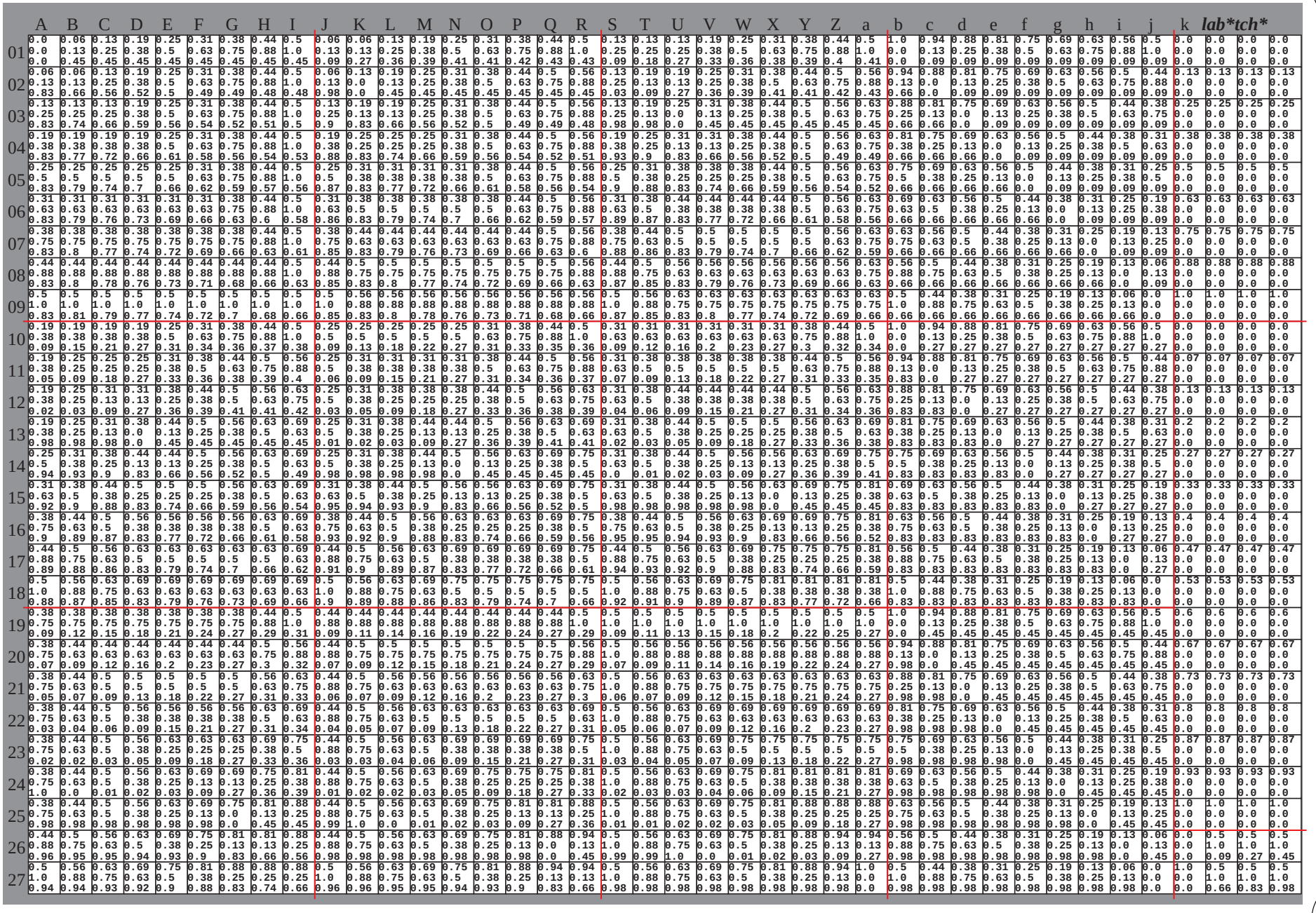
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b75r*
*lab*tch**

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

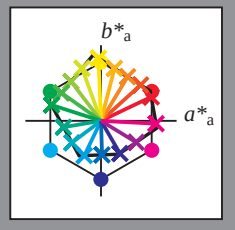




Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

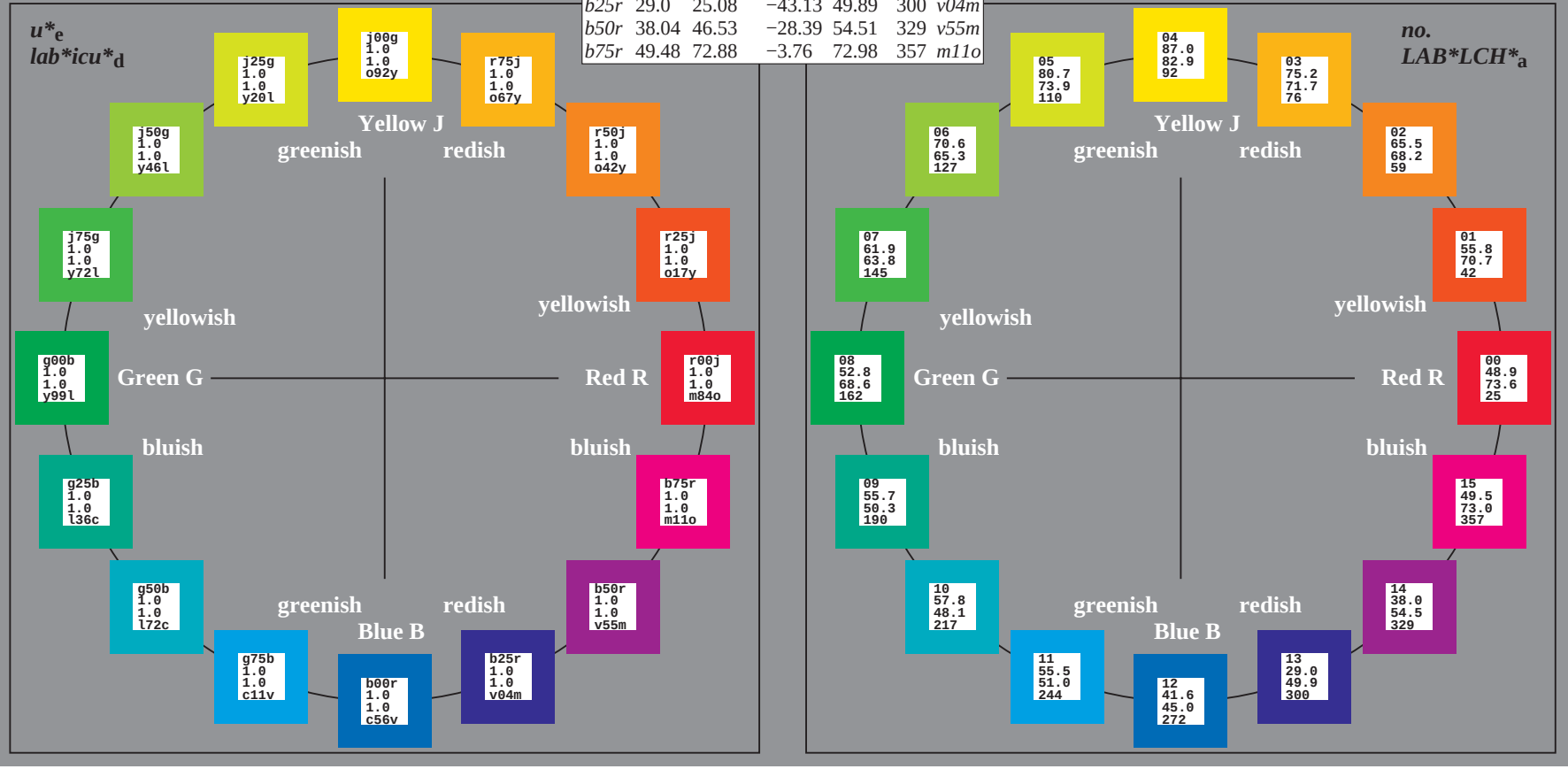
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

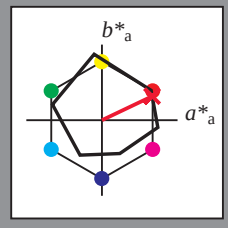
ORS19_96a; adapted (a) CIELAB data

Name	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

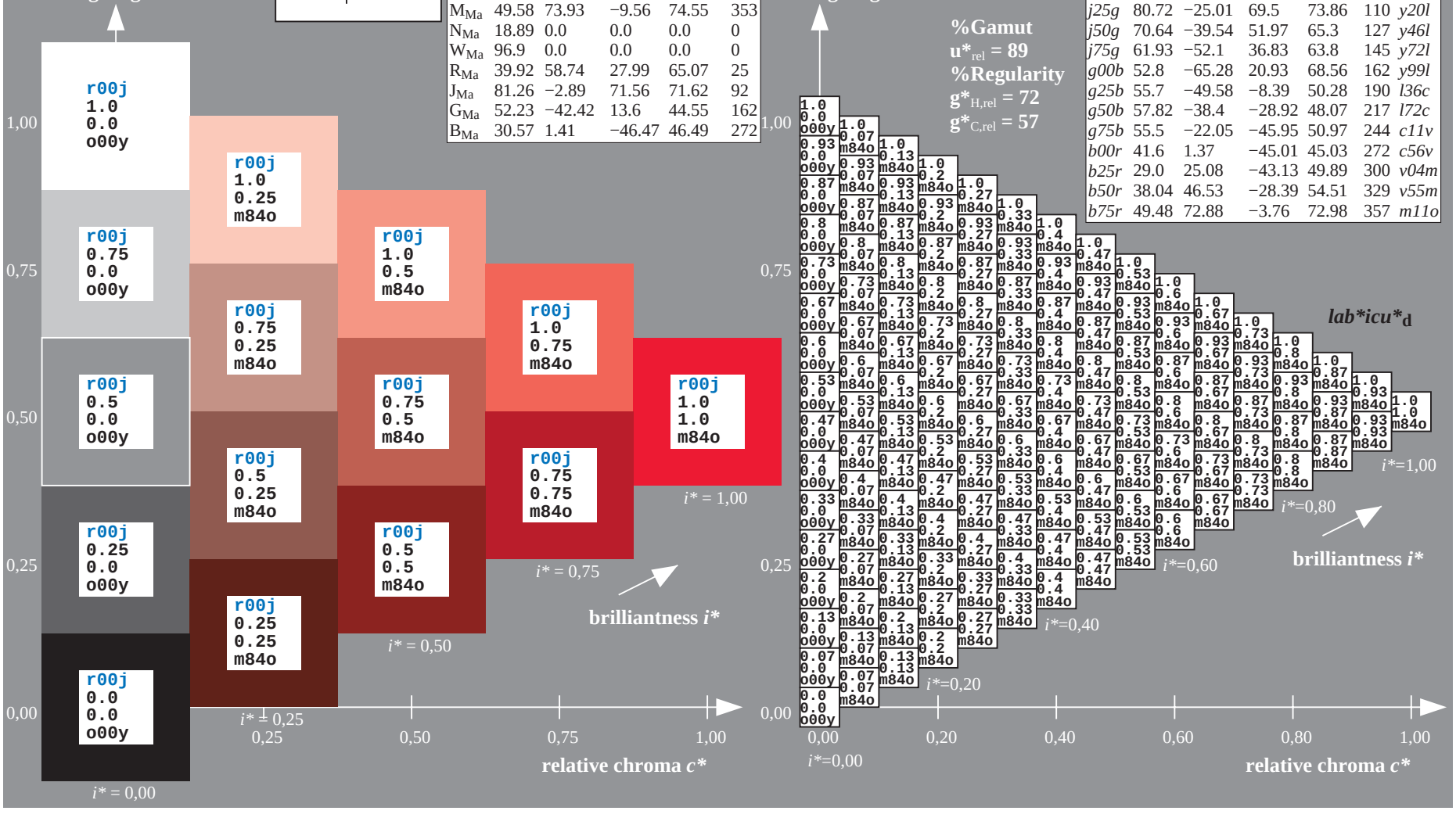
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

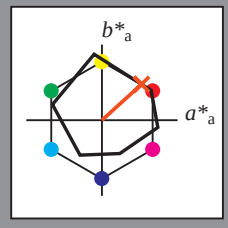
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

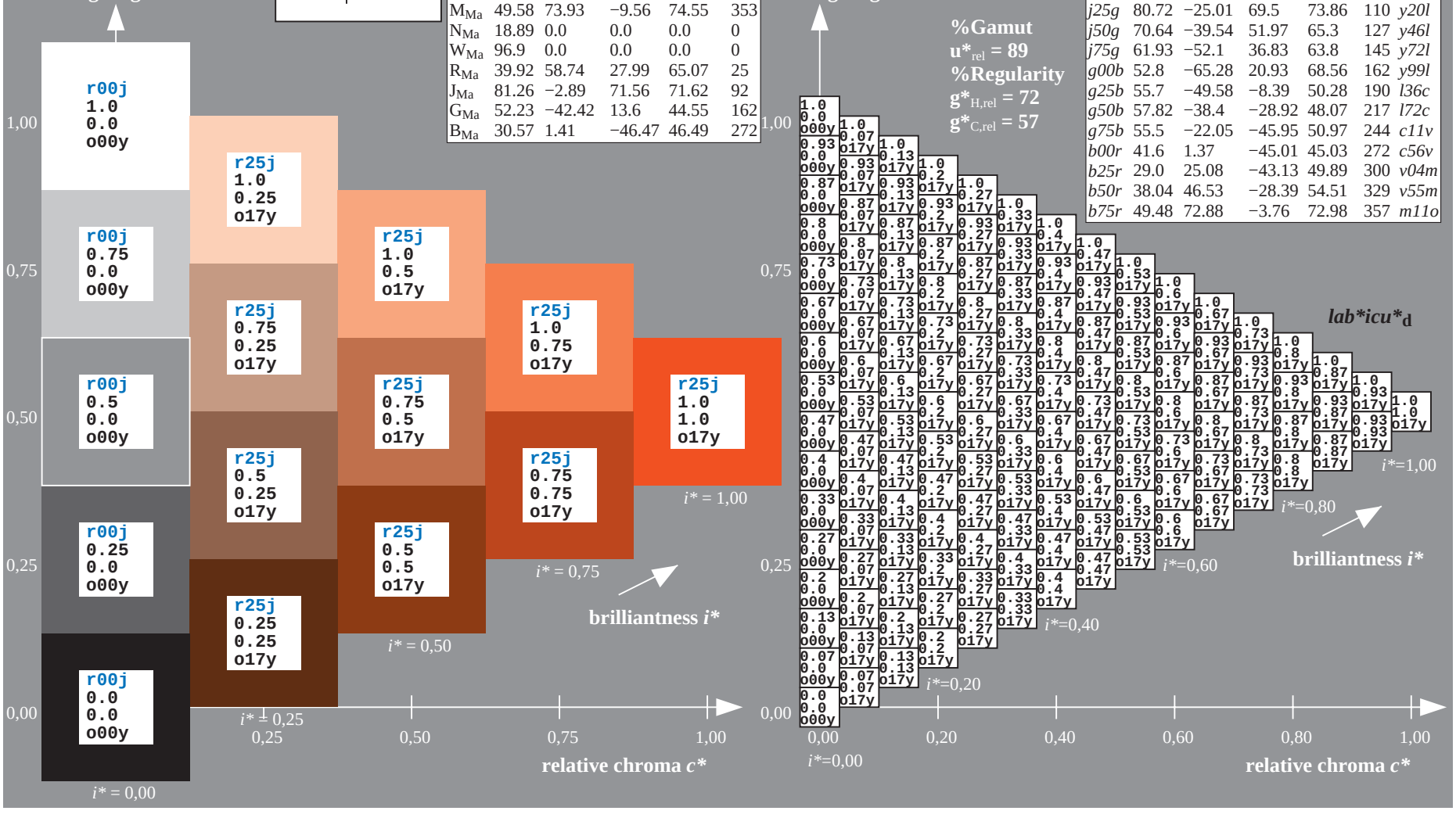
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r25j*
*lab*icu**$_d$

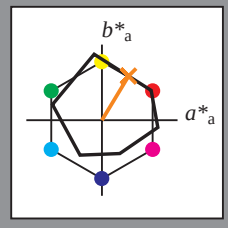
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

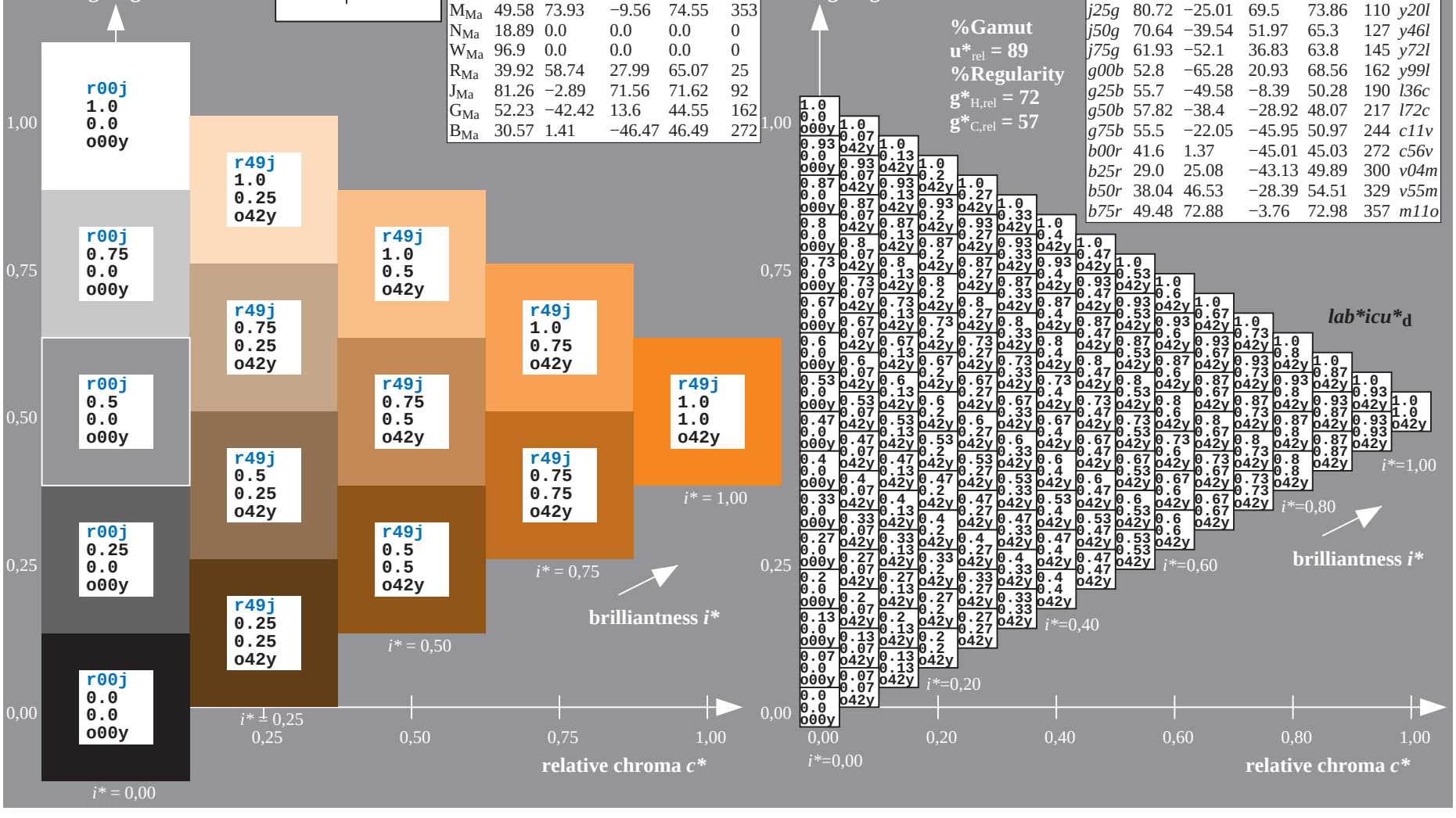
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r50j*
lab*icu*$_d$

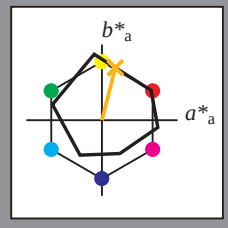
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

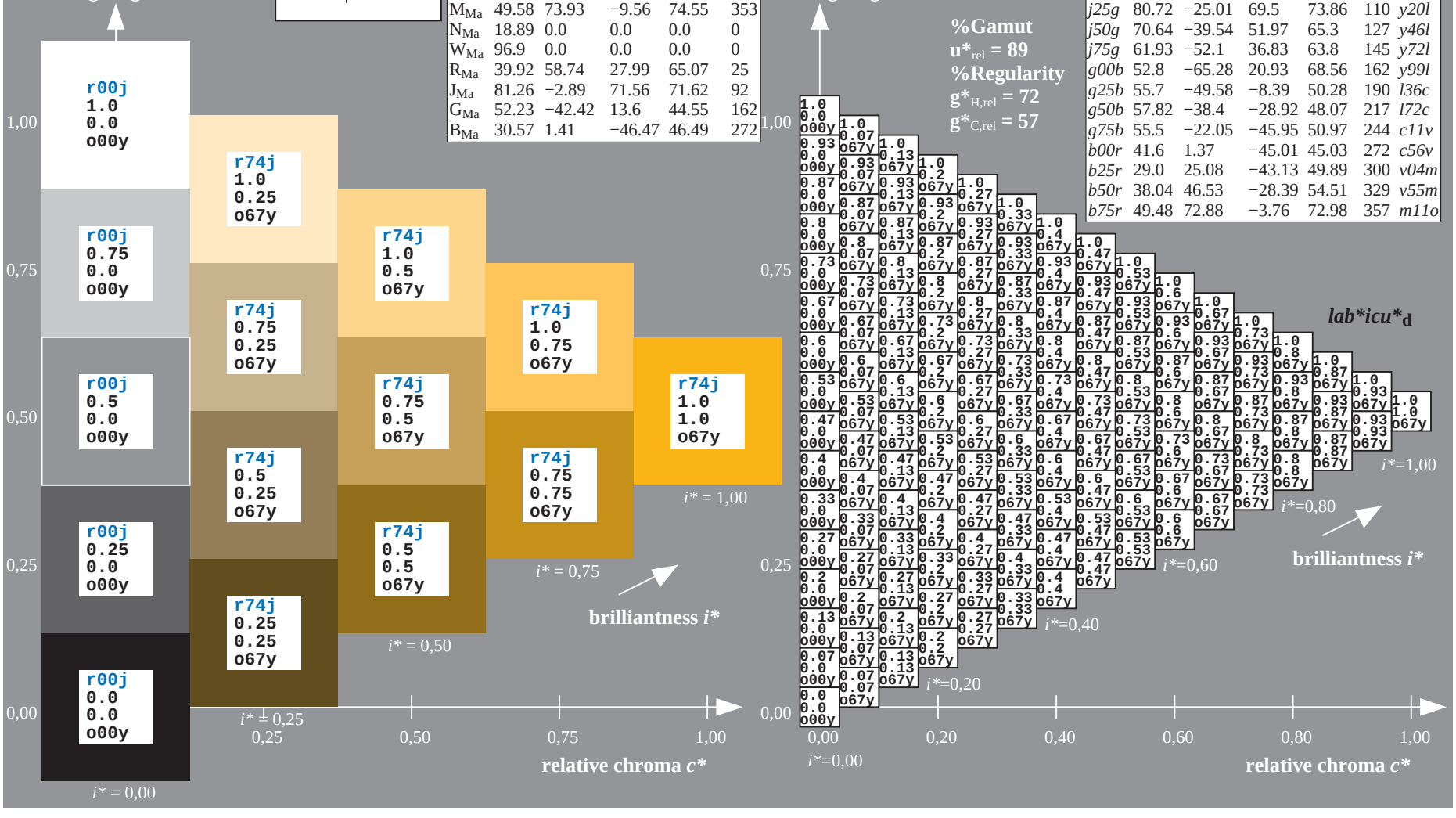
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 75 18 69**
LAB*LCH*$_{Ma}$**: 75 72 75**
lab*rgb*$_{Ma}$**: 1.0 0.75 0.0**
lab*olv*$_{Ma}$**: 1.0 0.68 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

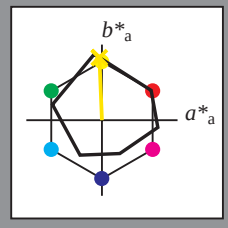
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

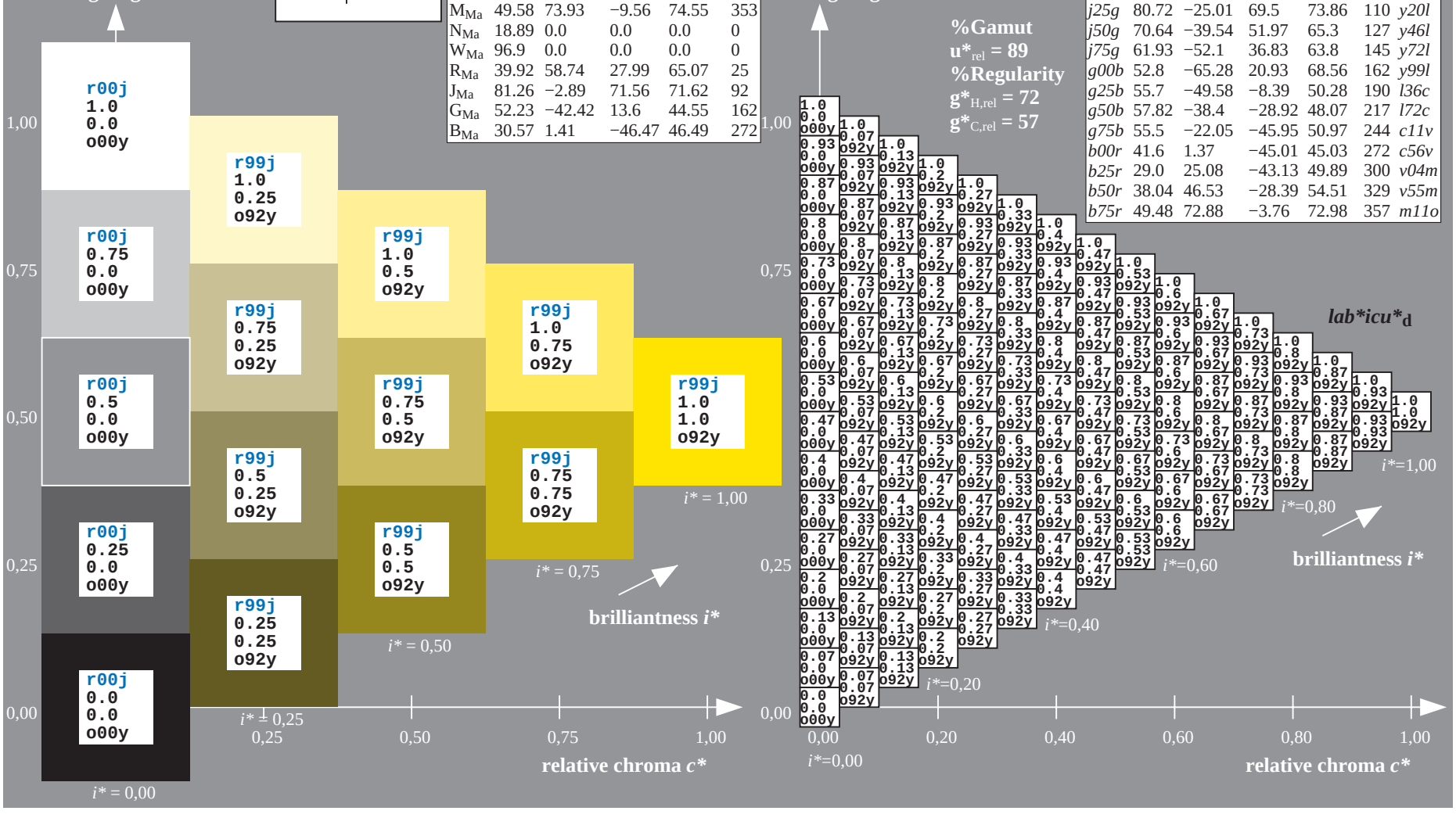
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

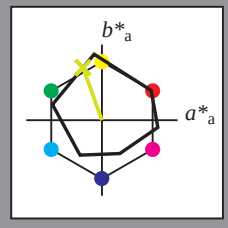
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

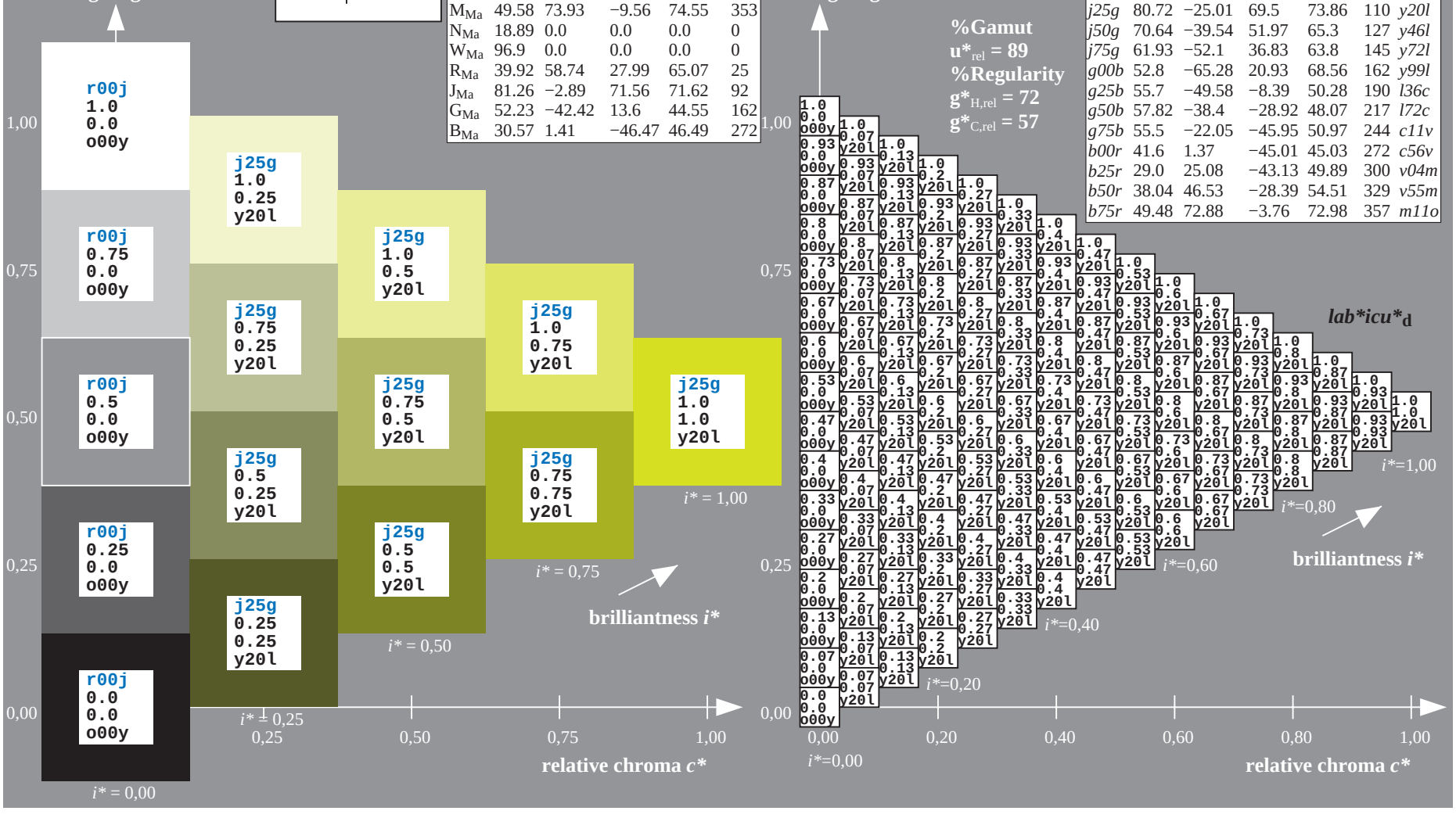
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

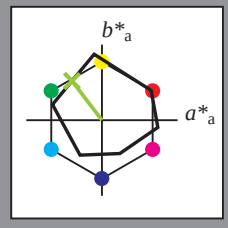
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

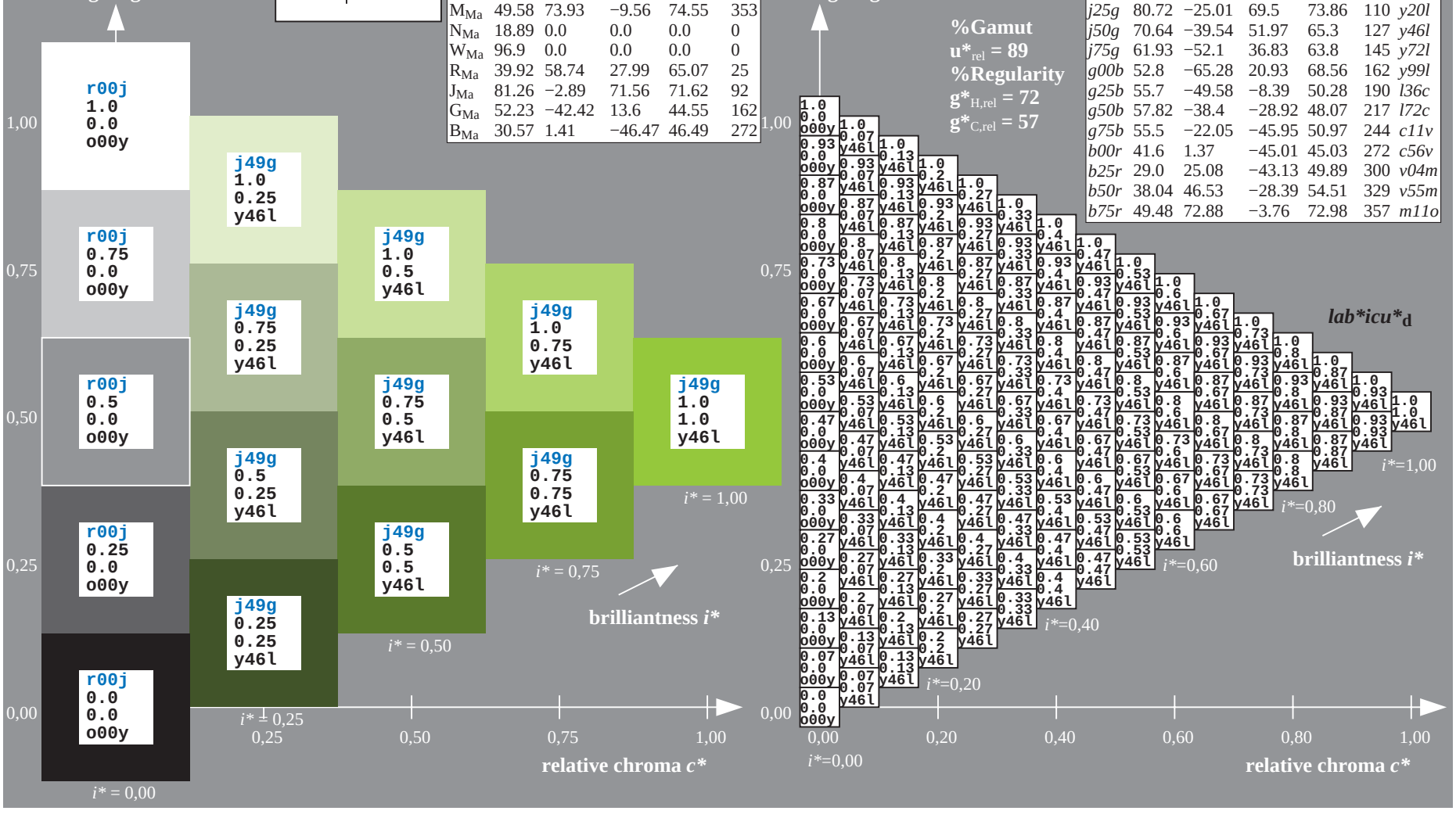
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 71 −40 52**
LAB*LCH*$_{Ma}$**: 71 65 127**
lab*rgb*$_{Ma}$**: 0.5 1.0 0.0**
lab*olv*$_{Ma}$**: 0.54 1.0 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e = j50g
lab*icu*d

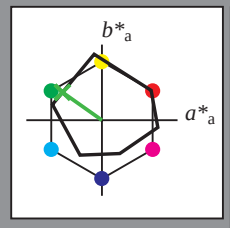
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

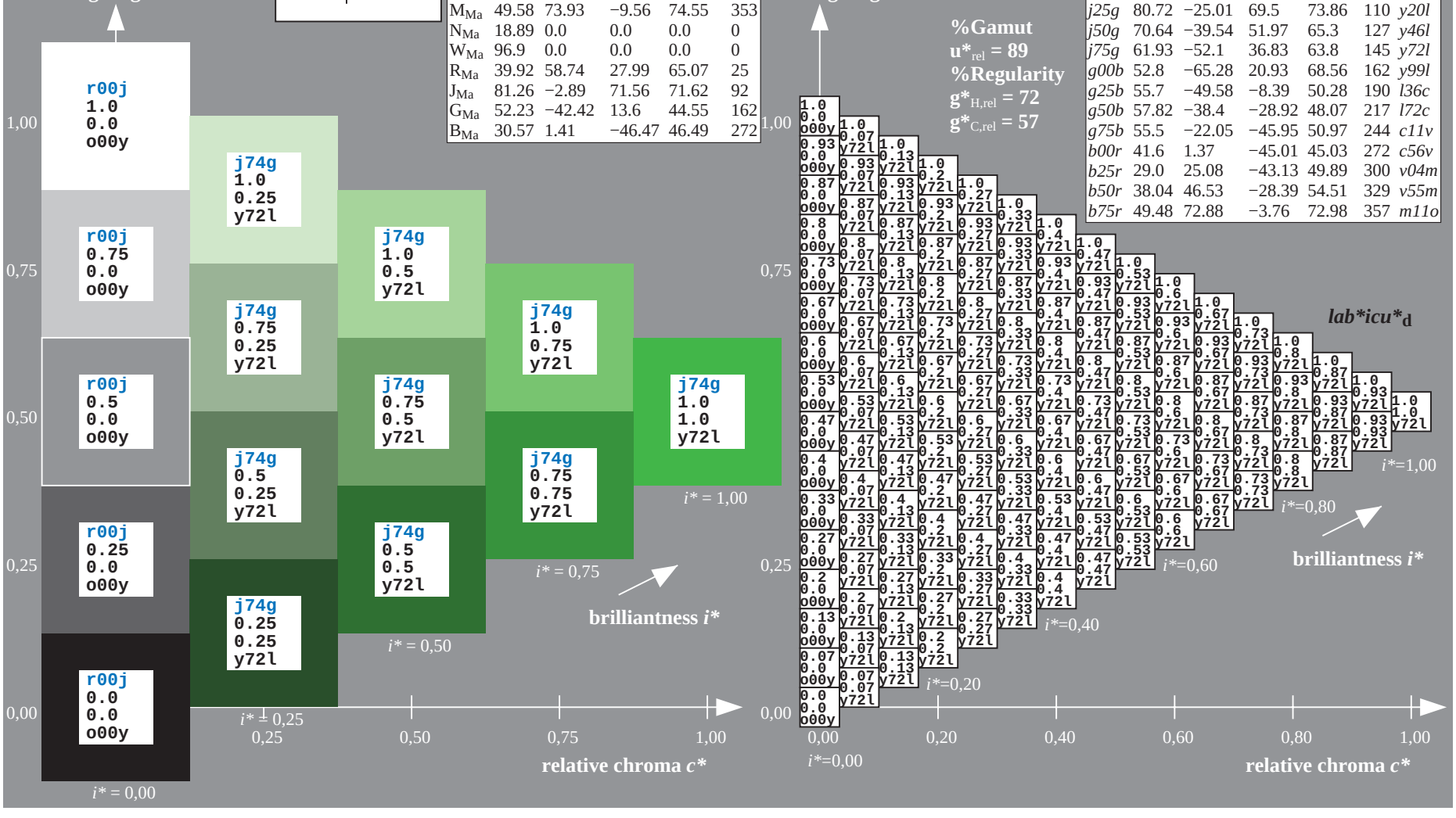
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

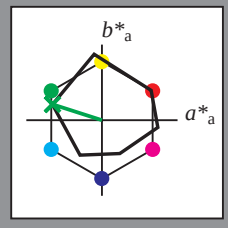


See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

BAM registration: 20081001-Ee12/10L/L12E00NP.PS/ .PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.451**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *g00b* u^*_d = *y99l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

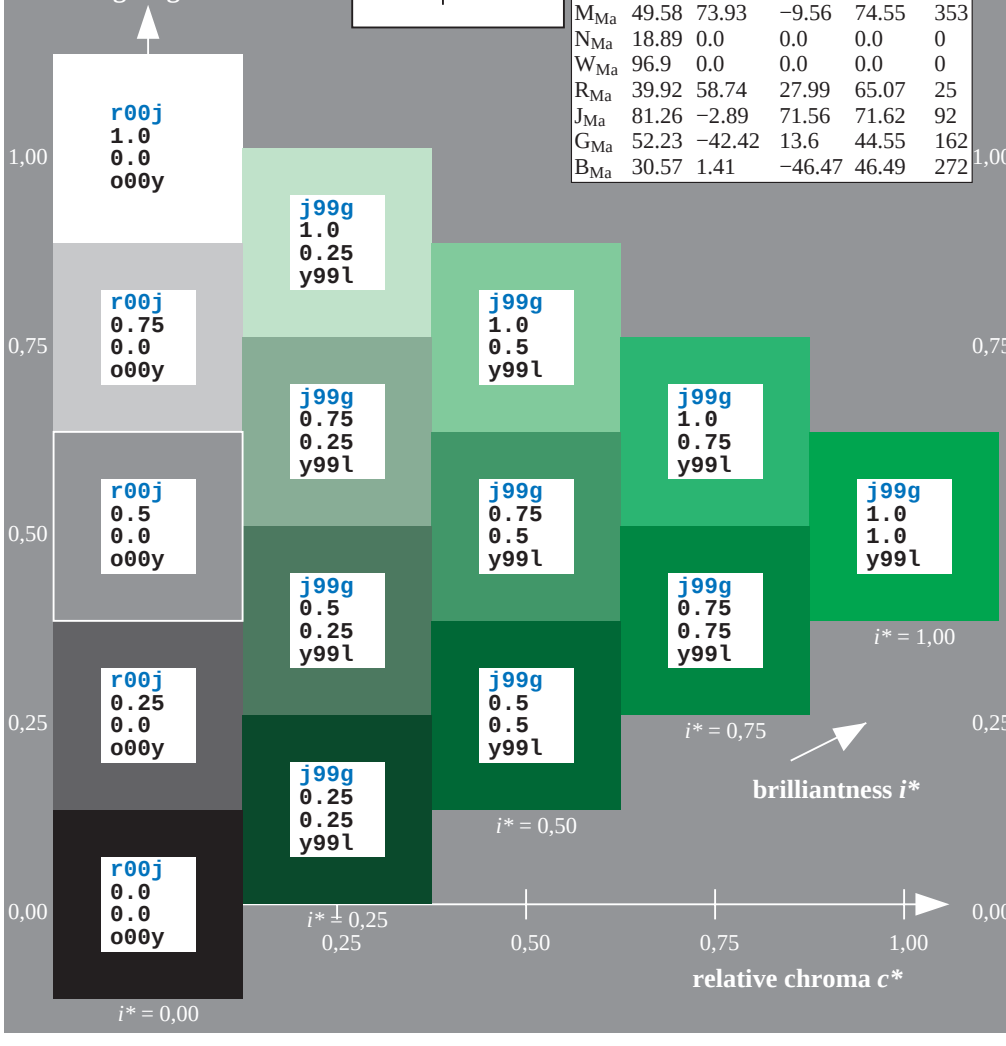
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −65 21
*LAB*LCH**$_{Ma}$: 53 69 162
*lab*rgb**$_{Ma}$: 0.0 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.0
triangle lightness *t**

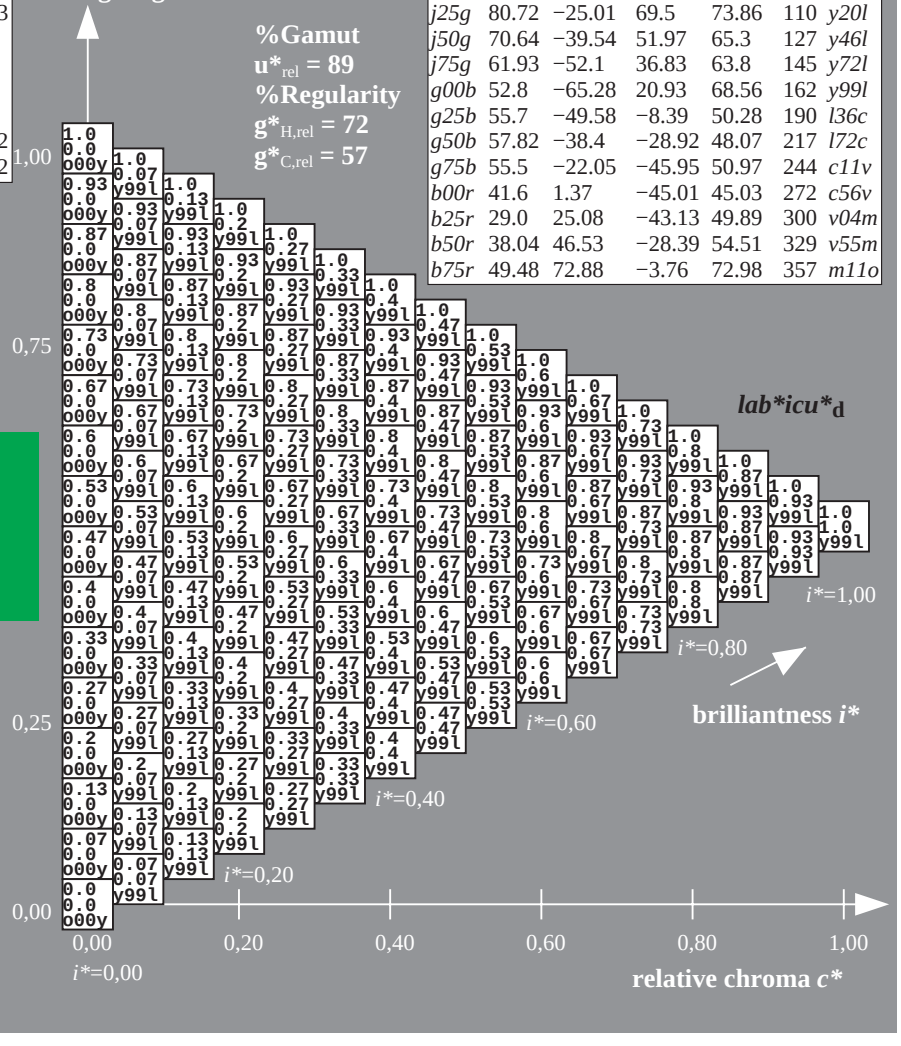
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g00b*
*lab*icu**$_d$

ORS19_96a; adapted (a) CIELAB data

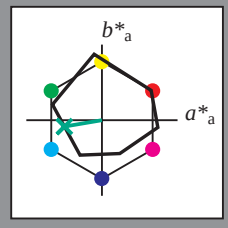
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.527**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

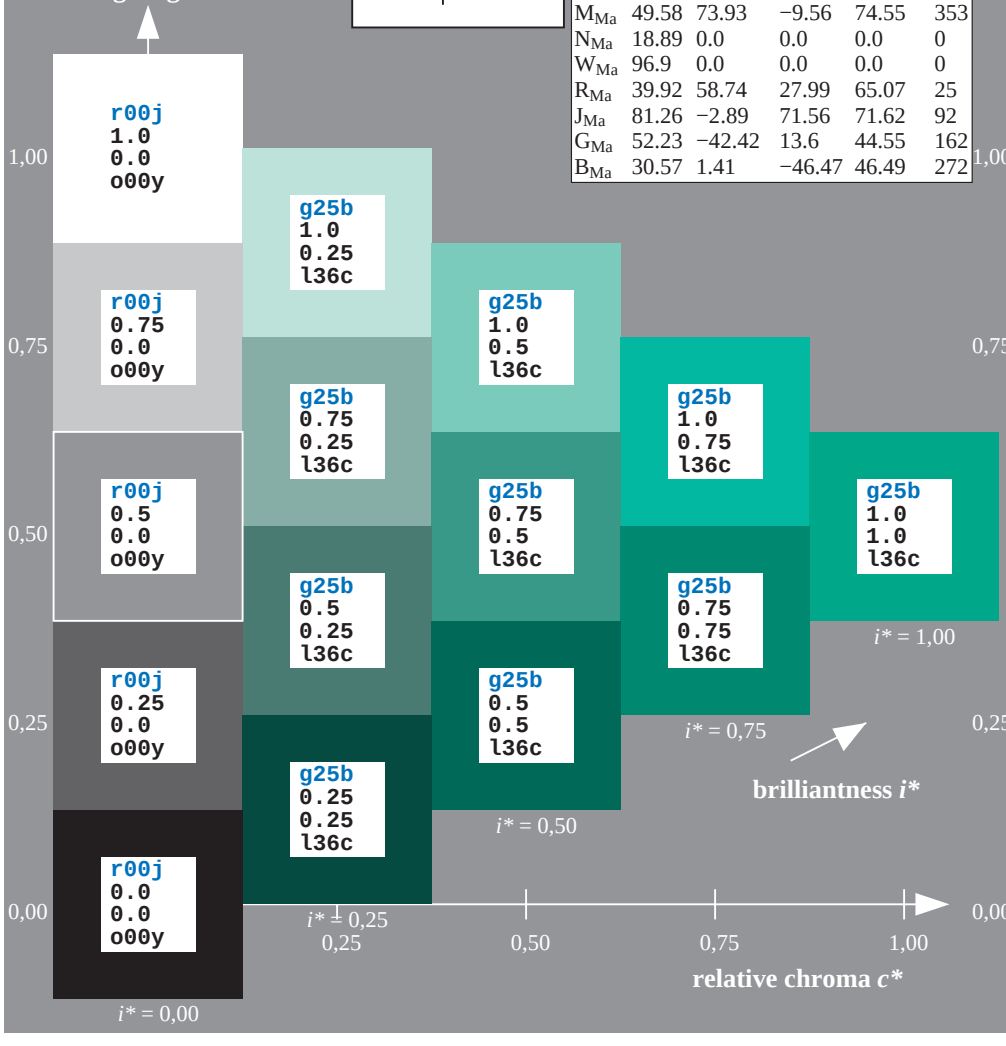
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 −50 −8
*LAB*LCH**$_{Ma}$: 56 50 189
*lab*rgb**$_{Ma}$: 0.0 1.0 0.5
*lab*olv**$_{Ma}$: 0.0 1.0 0.36
triangle lightness *t**

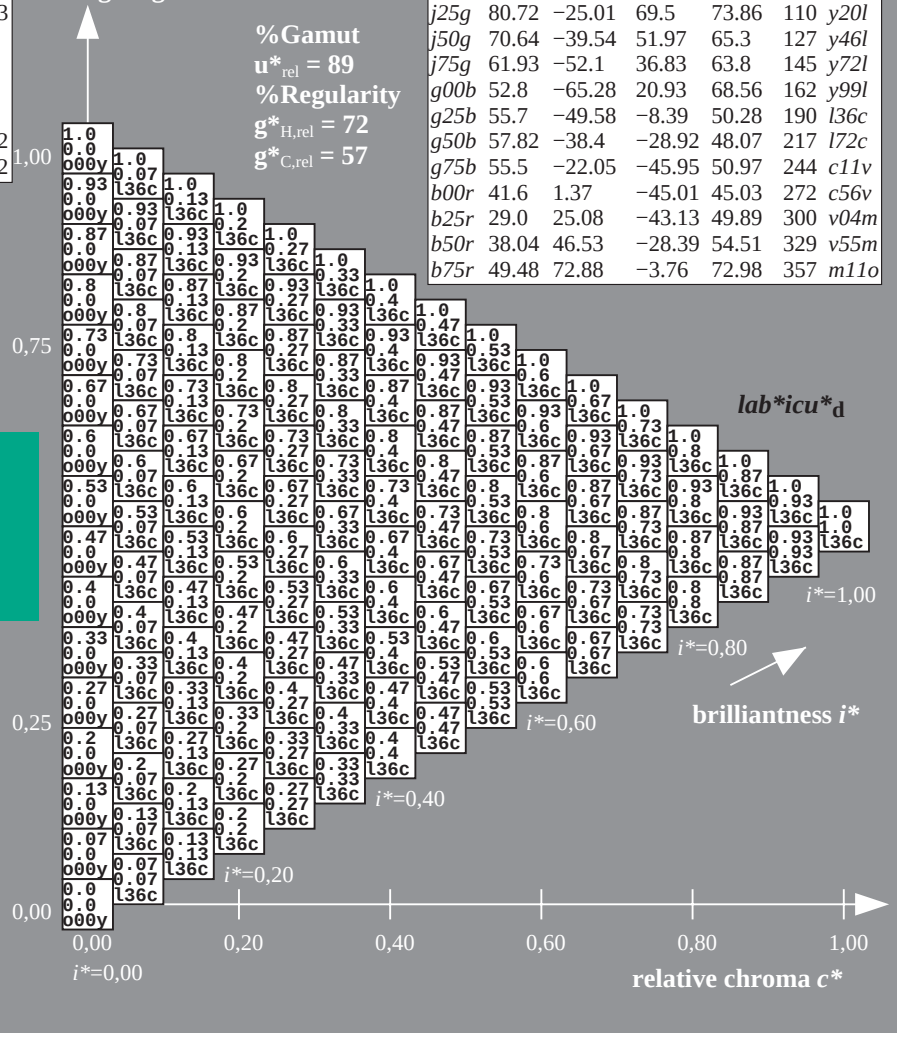
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g25b*
*lab*icu**$_d$

ORS19_96a; adapted (a) CIELAB data

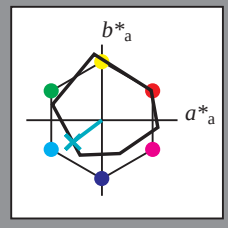
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.603**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g50b* u^*_d = *l72c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

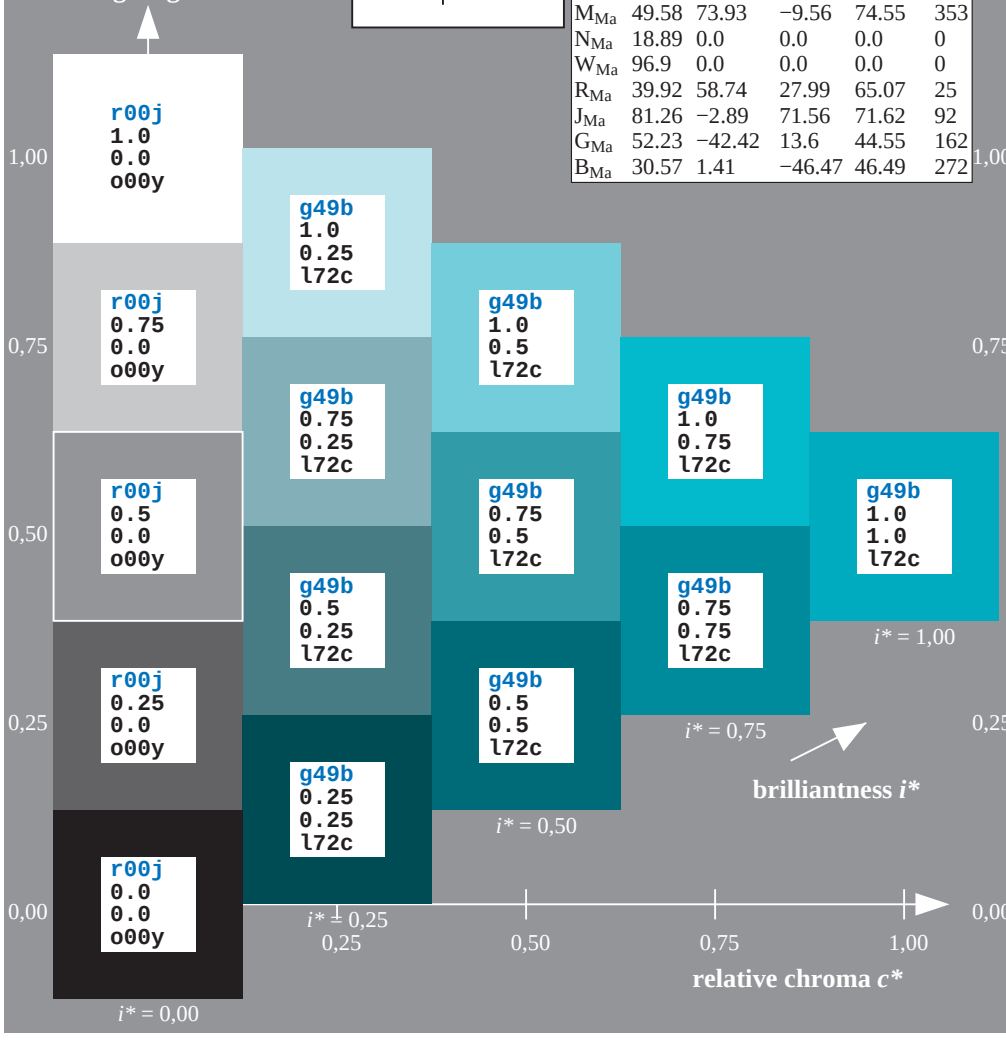
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 58 −38 −29
*LAB*LCH**$_{Ma}$: 58 48 216
*lab*rgb**$_{Ma}$: 0.0 1.0 1.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.72
triangle lightness *t**

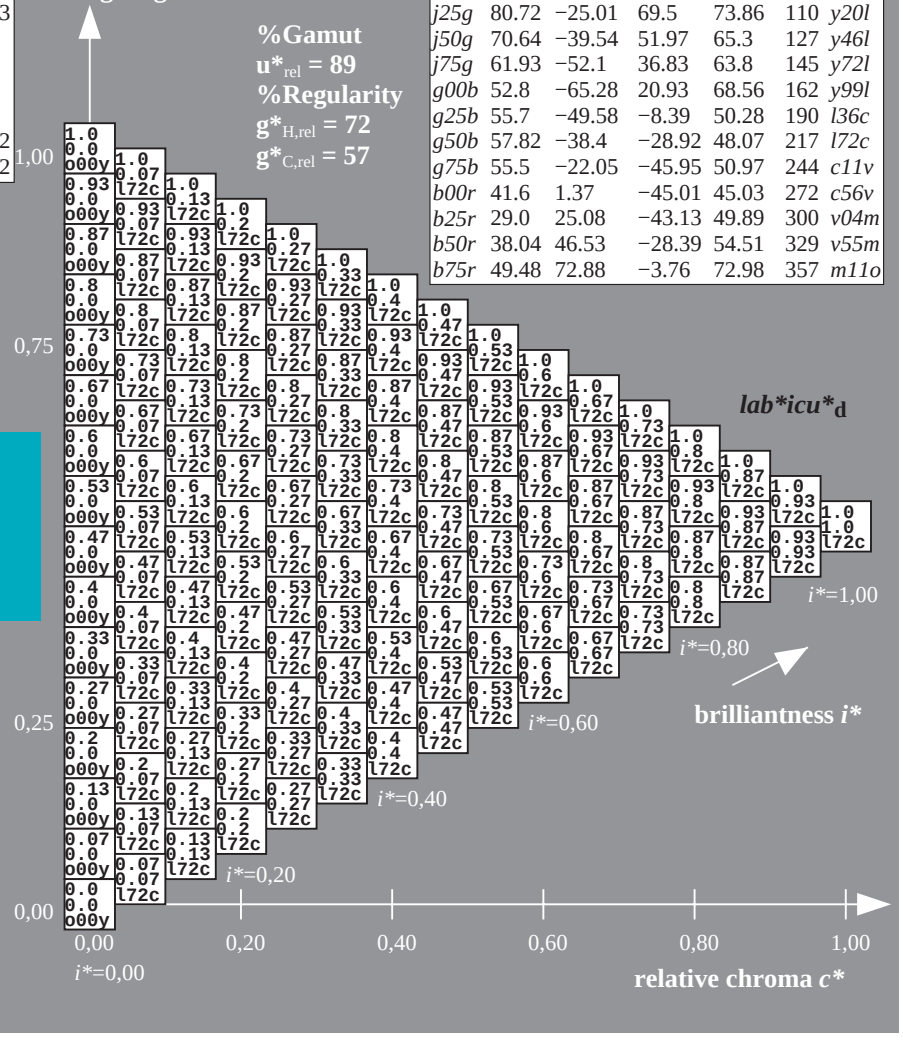
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g50b*
*lab*icu**$_d$

ORS19_96a; adapted (a) CIELAB data

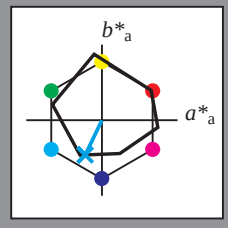
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = g75b$ $u^*_d = c11v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

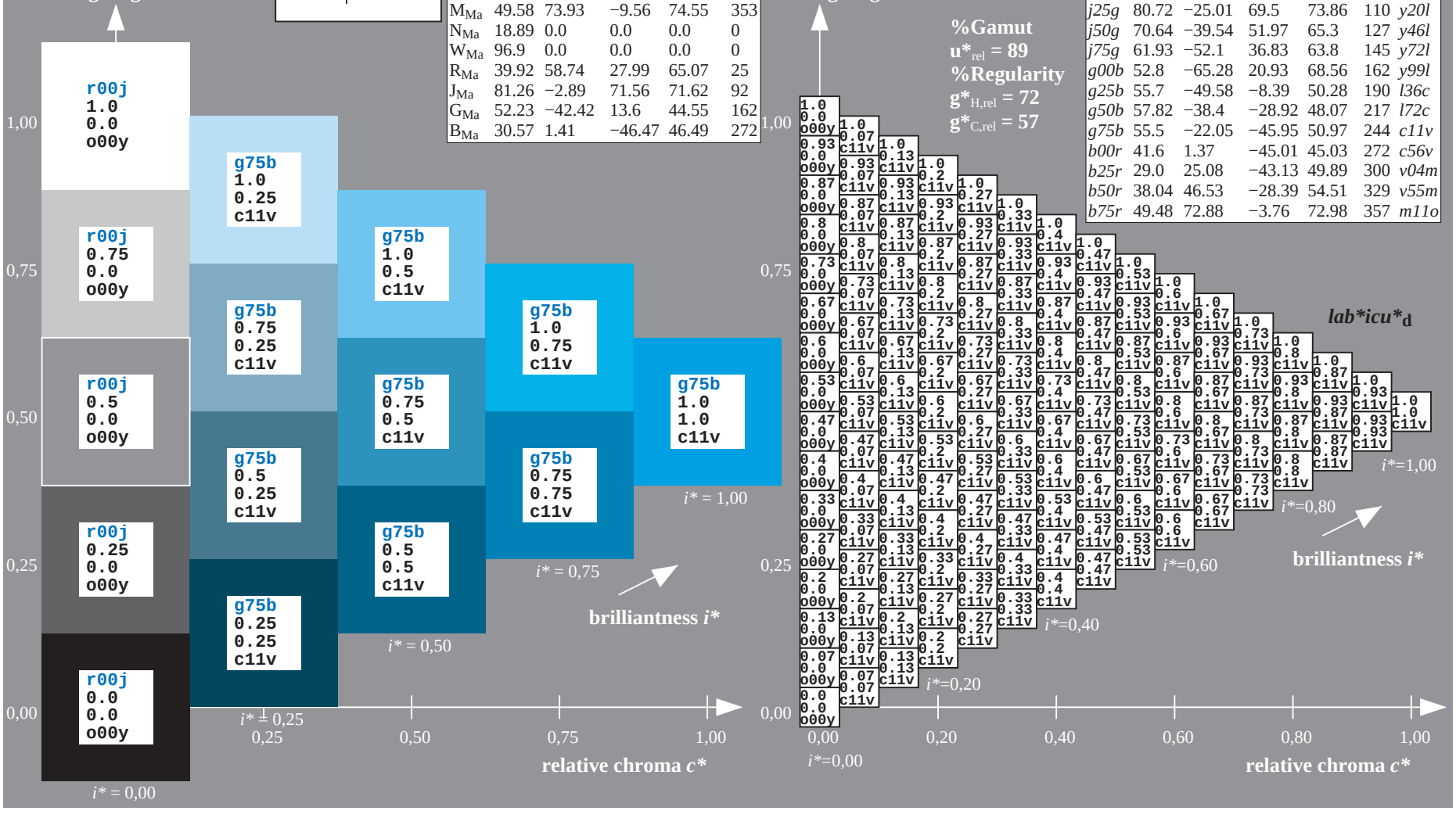
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 55 −22 −46
$LAB^*LCH^*_{Ma}$: 55 51 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

$u^*_e = g75b$
$lab^*icu^*_d$

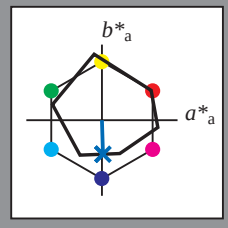
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

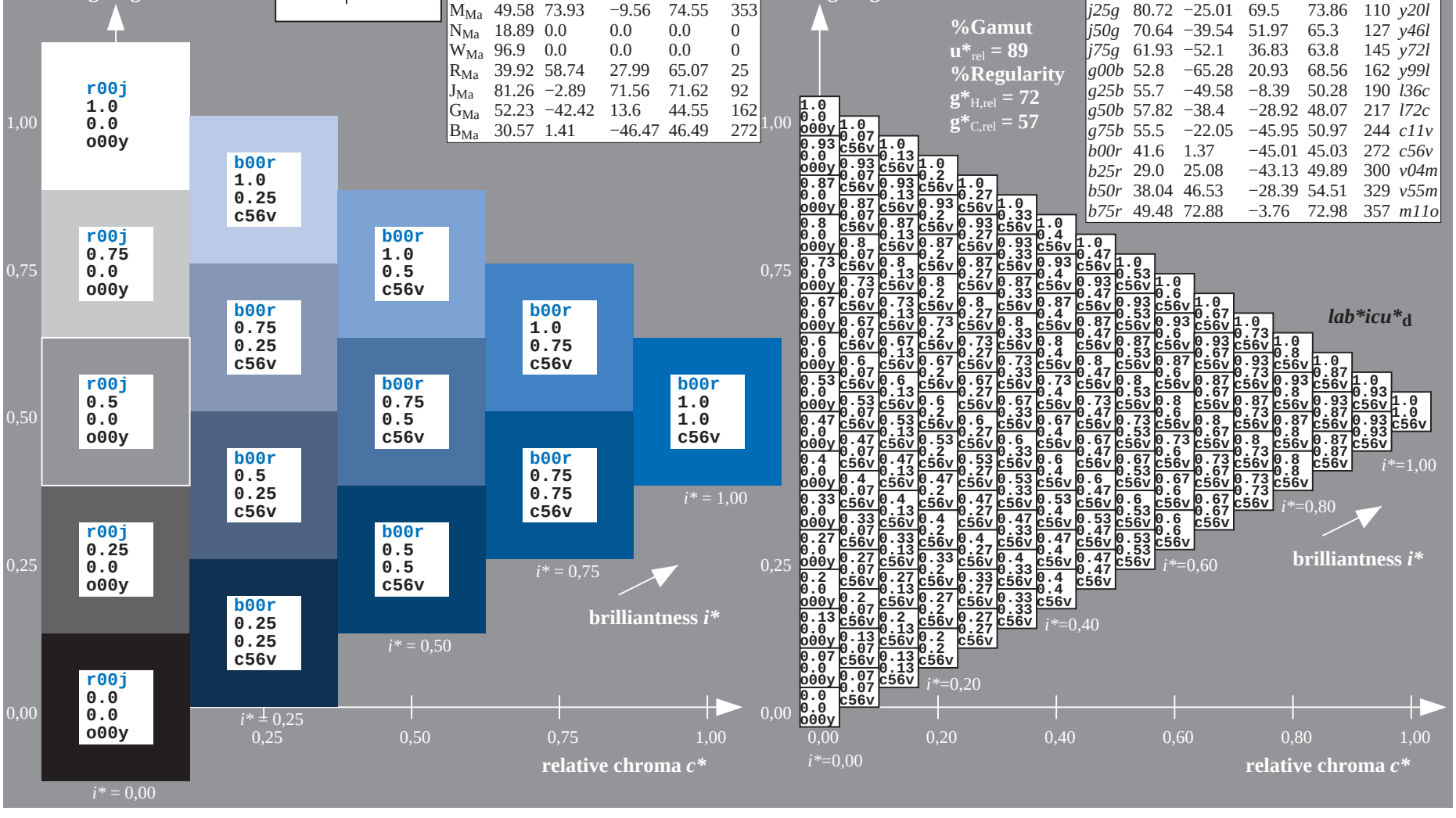
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 42 1 −45
$LAB^*LCH^*_{Ma}$: 42 45 271
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.0 0.44 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

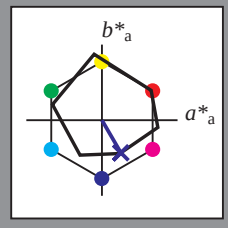
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.834**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

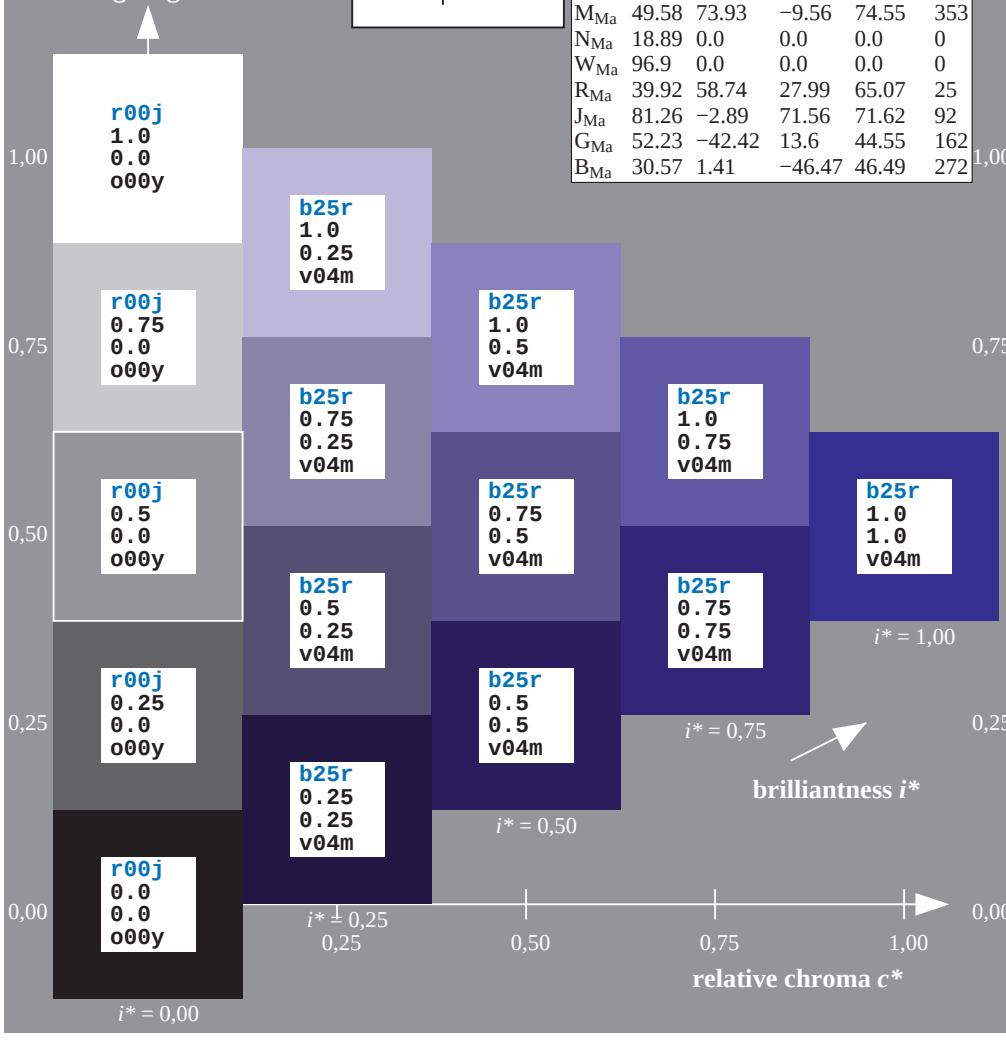
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 29 25 −43**
LAB*LCH*$_{Ma}$**: 29 50 300**
lab*rgb*$_{Ma}$**: 0.5 0.0 1.0**
lab*olv*$_{Ma}$**: 0.04 0.0 1.0**
triangle lightness *t**

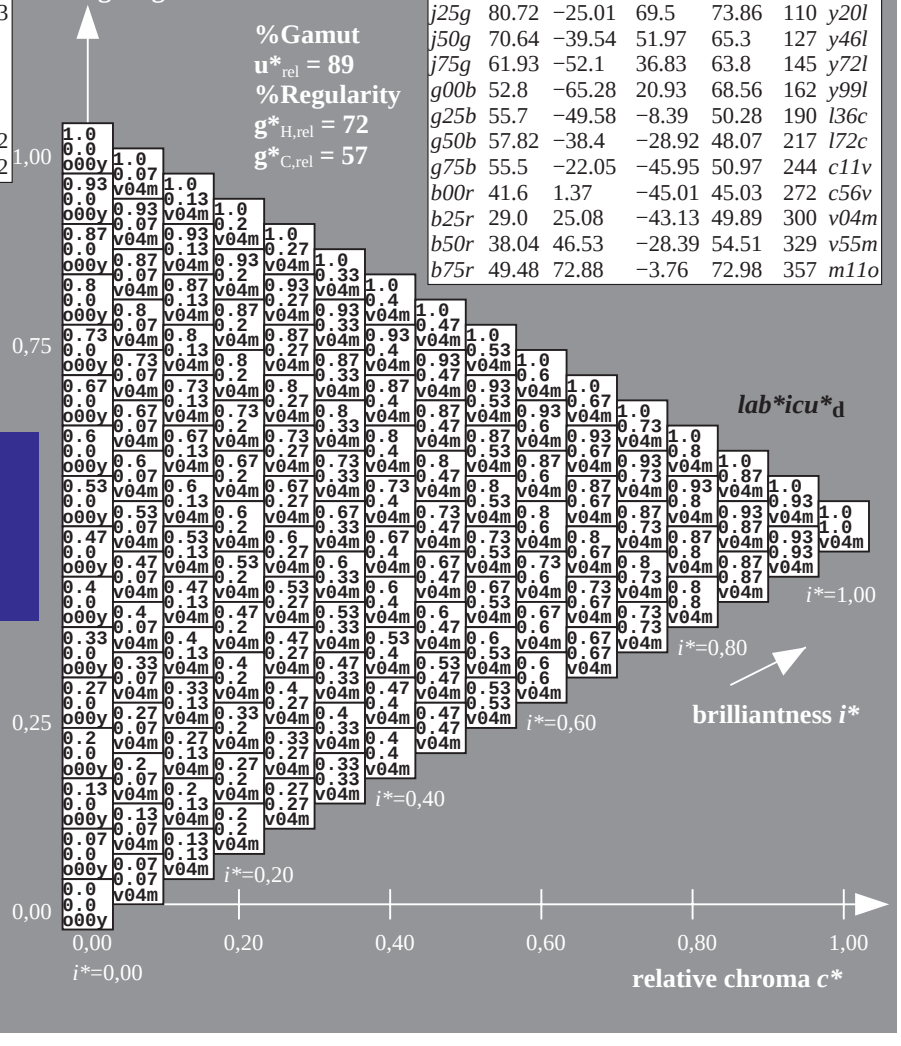
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b25r*
*lab*icu**$_d$

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

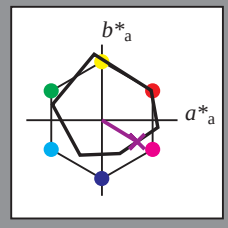




input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.913**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

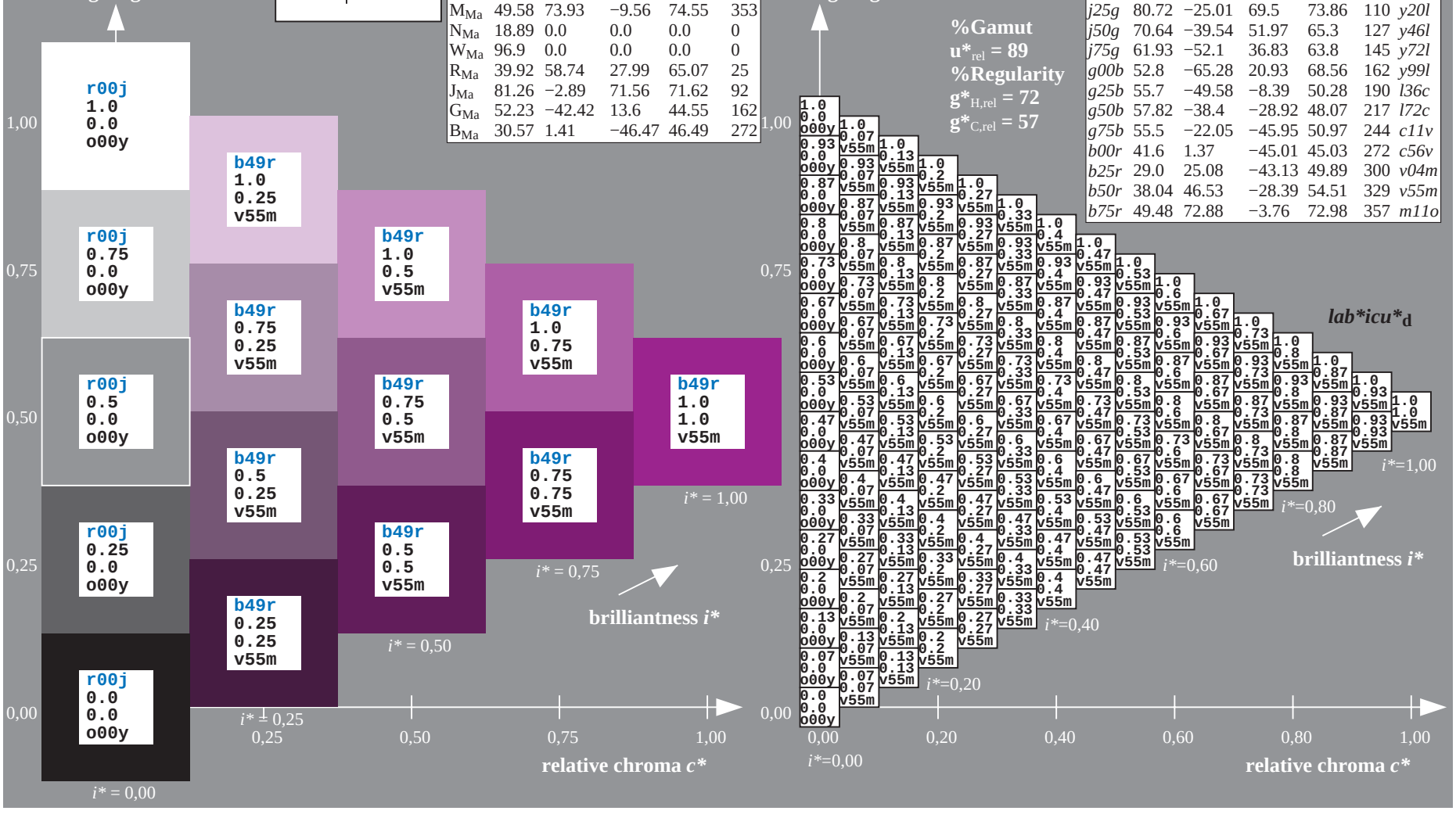
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 47 −28
*LAB*LCH**$_{Ma}$: 38 55 328
*lab*rgb**$_{Ma}$: 1.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.56 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

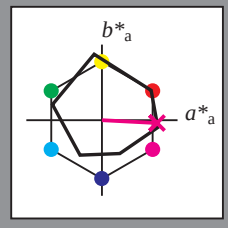
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.992$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	48.75	65.07	39.43	76.08	31
Y_{Ma}	90.92	−10.29	87.24	87.85	97
L_{Ma}	52.69	−65.44	20.75	68.65	162
C_{Ma}	59.61	−28.98	−46.22	54.56	238
V_{Ma}	28.39	23.63	−44.13	50.06	298
M_{Ma}	49.58	73.93	−9.56	74.55	353
N_{Ma}	18.89	0.0	0.0	0.0	0
W_{Ma}	96.9	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

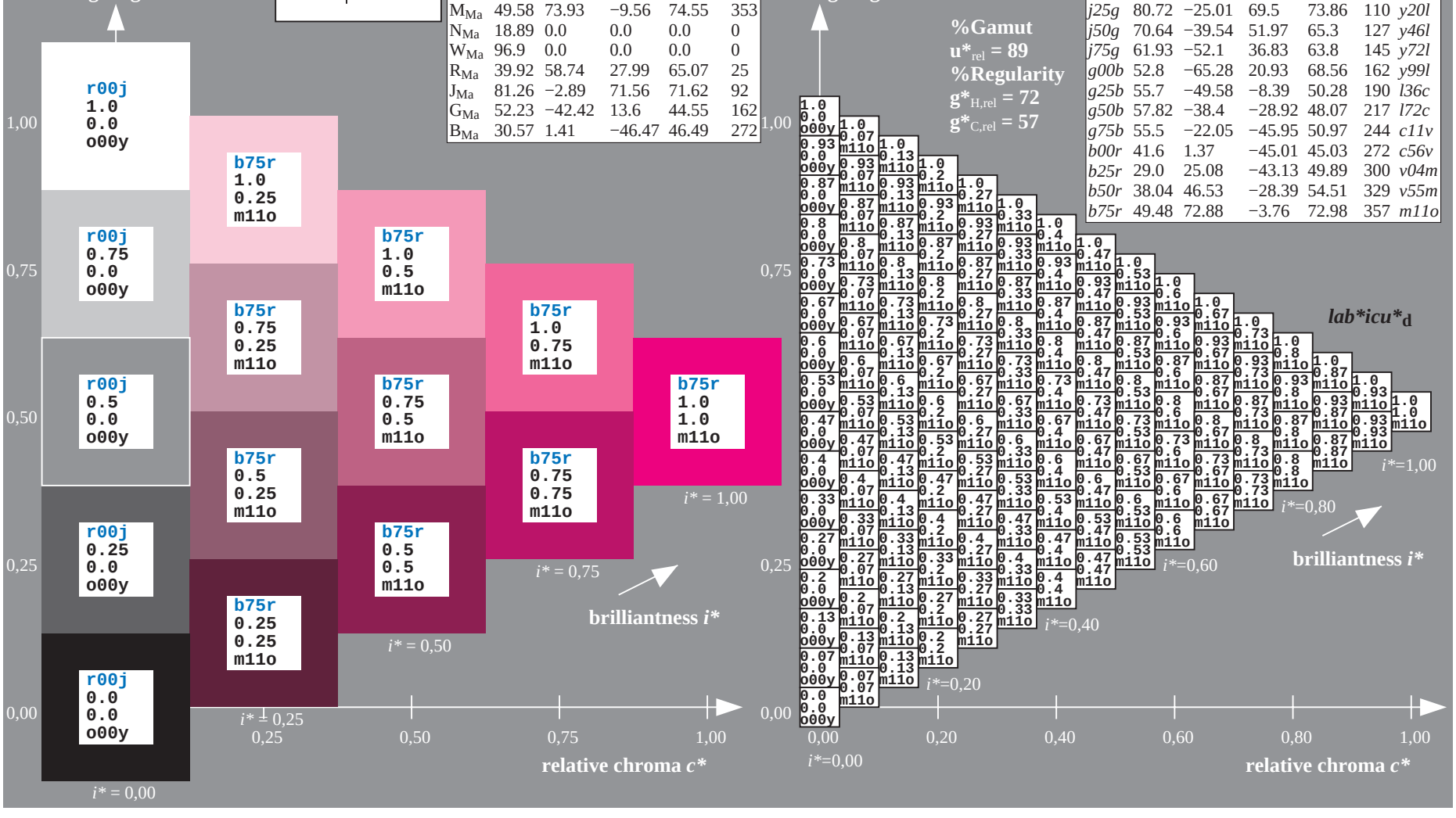
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 73 −4
*LAB*LCH**$_{Ma}$: 49 73 357
*lab*rgb**$_{Ma}$: 1.0 0.0 0.5
*lab*olv**$_{Ma}$: 1.0 0.0 0.89
triangle lightness *t**

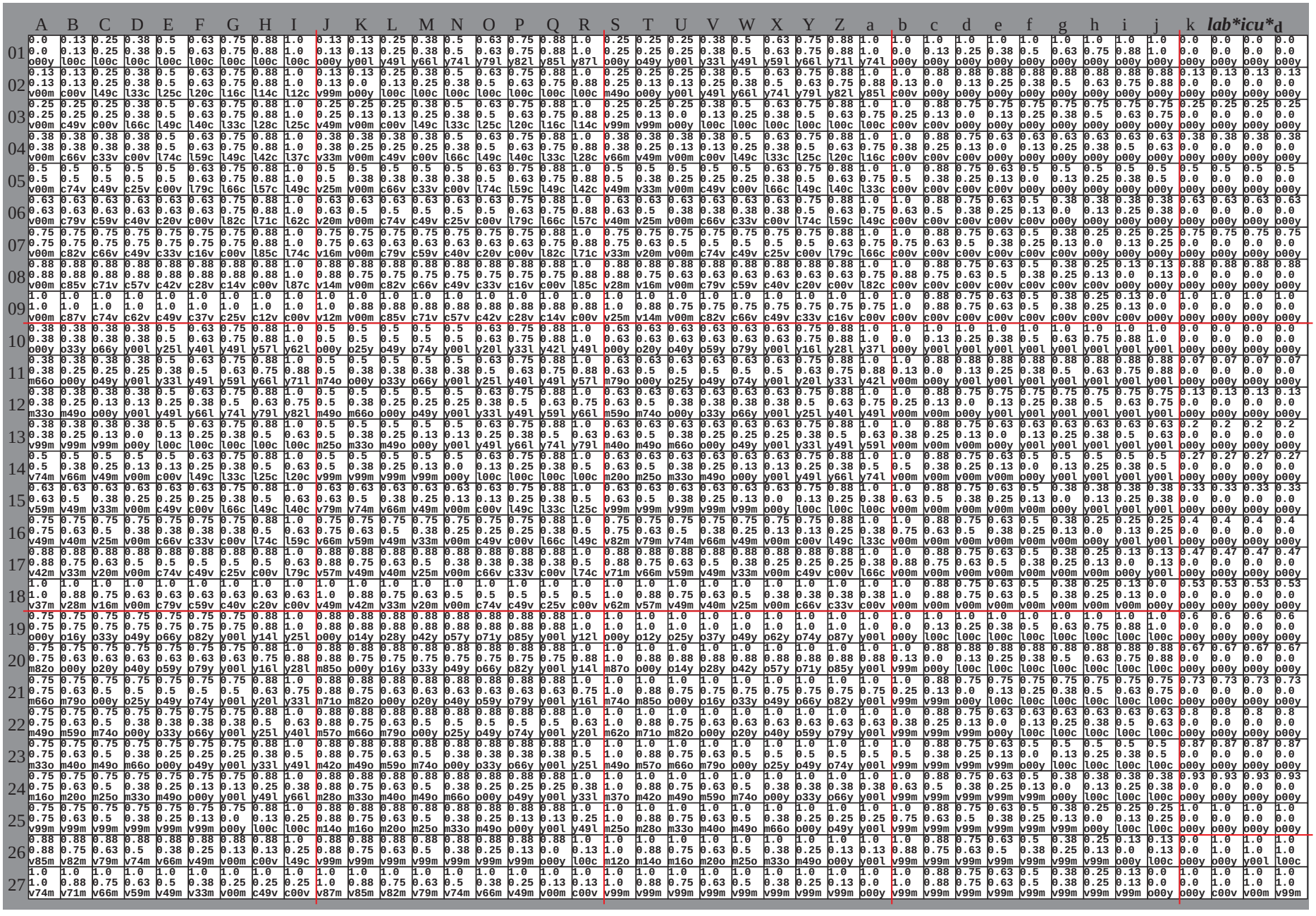
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b75r*
*lab*icu**$_d$

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



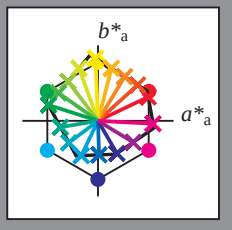


input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

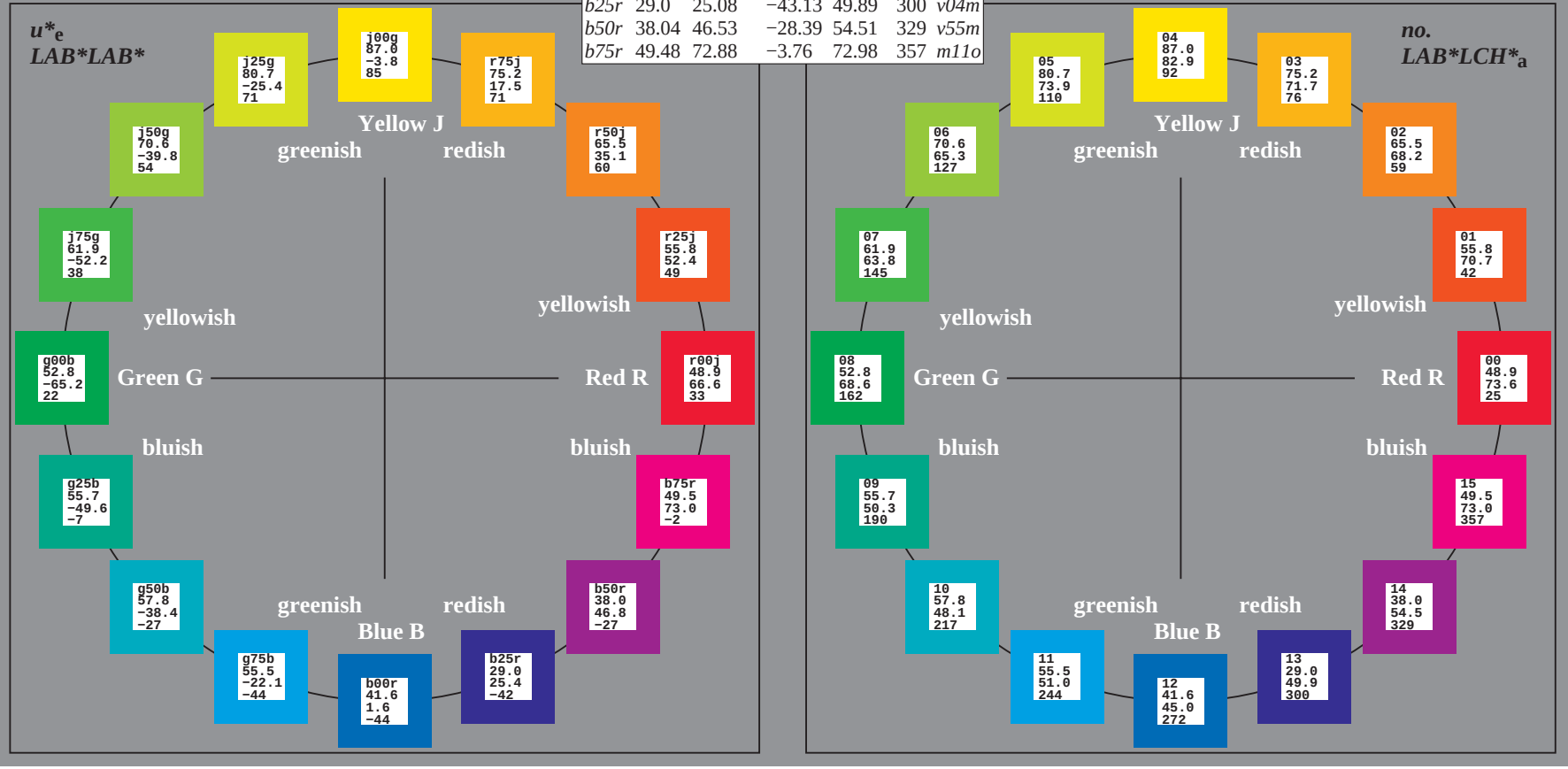
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

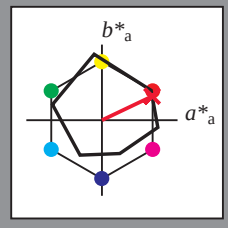
ORS19_96; CIELAB data

Name	*L*=L**	*a**	*b**	*C*ab*	*h*ab*
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96; CIELAB data

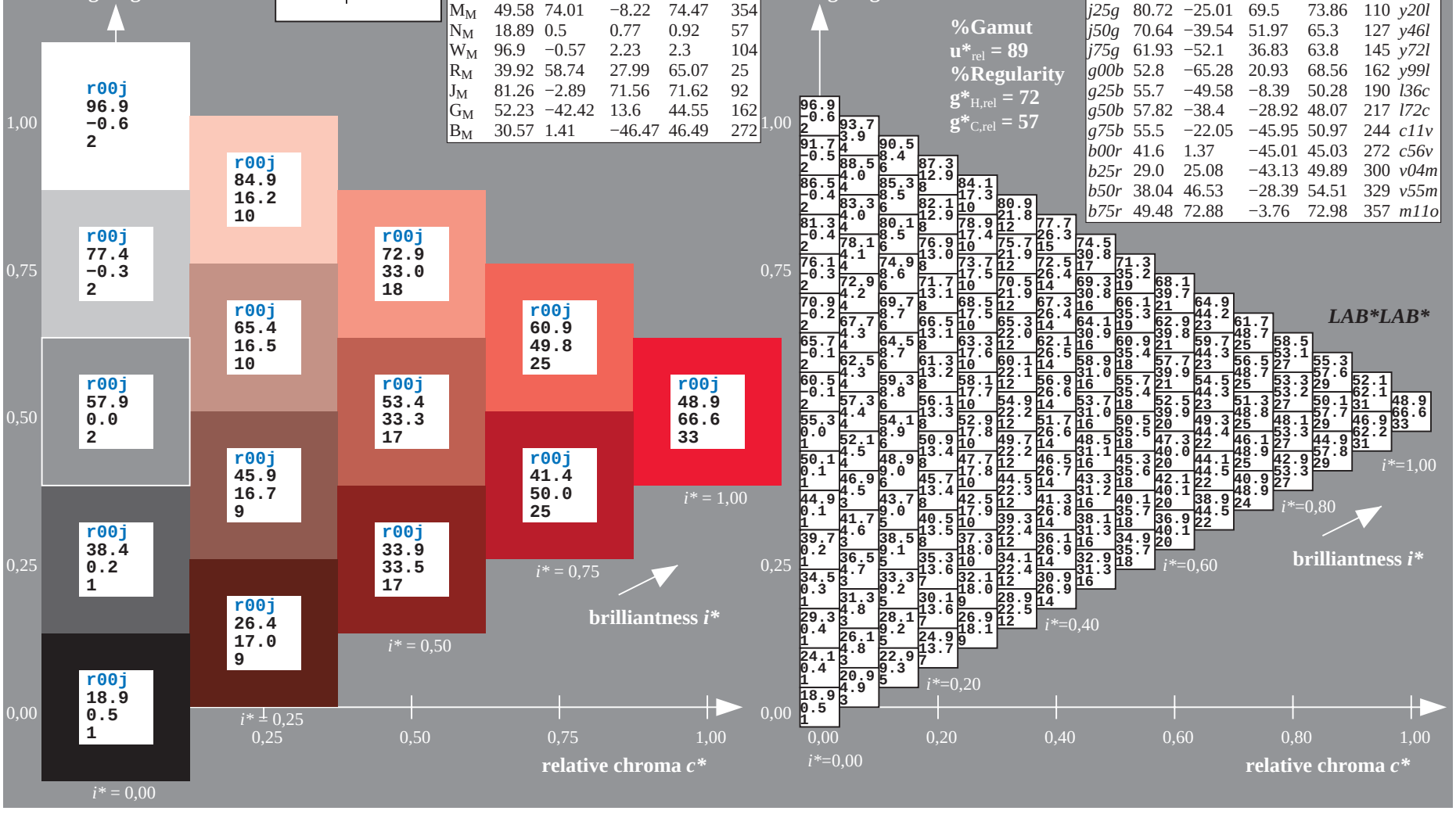
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

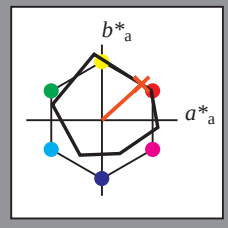
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

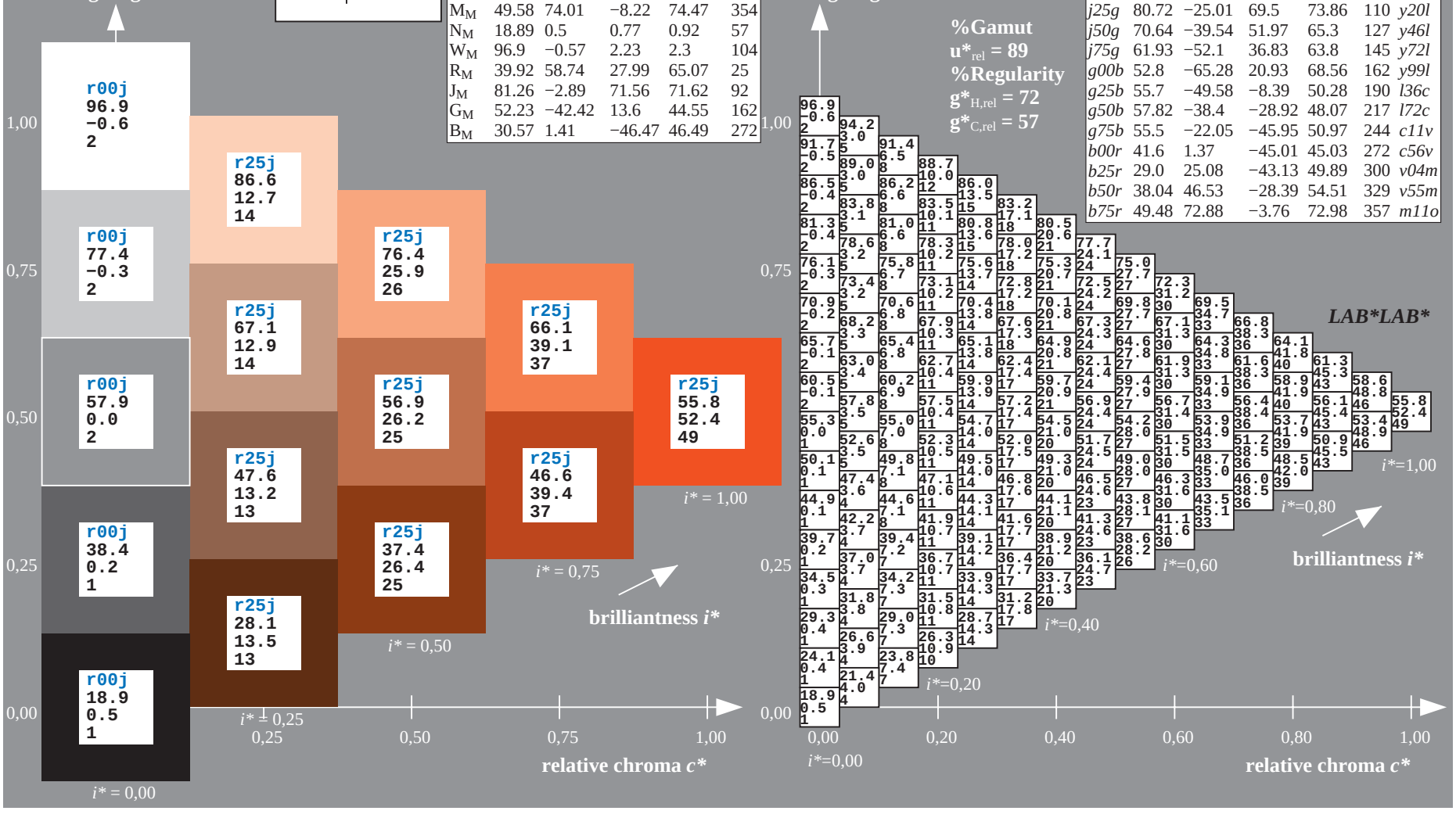
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r25j*
LAB*LAB*

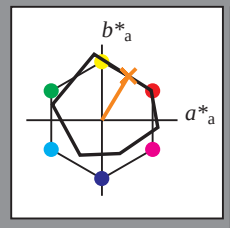
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96; CIELAB data

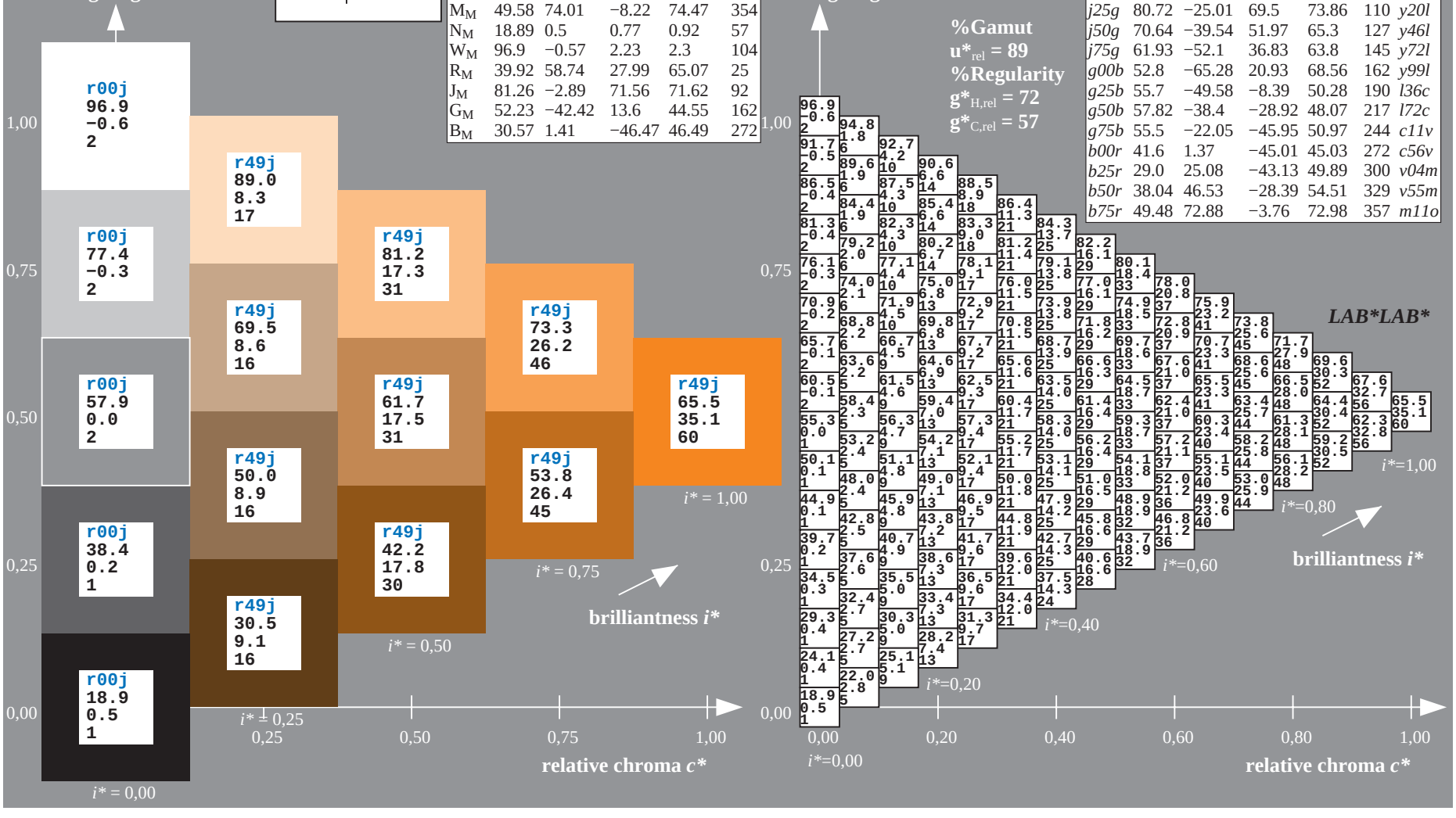
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 65 35 58
*LAB*LCH**$_{Ma}$: 65 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.42 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

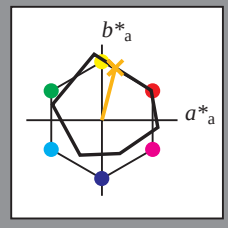
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96; CIELAB data

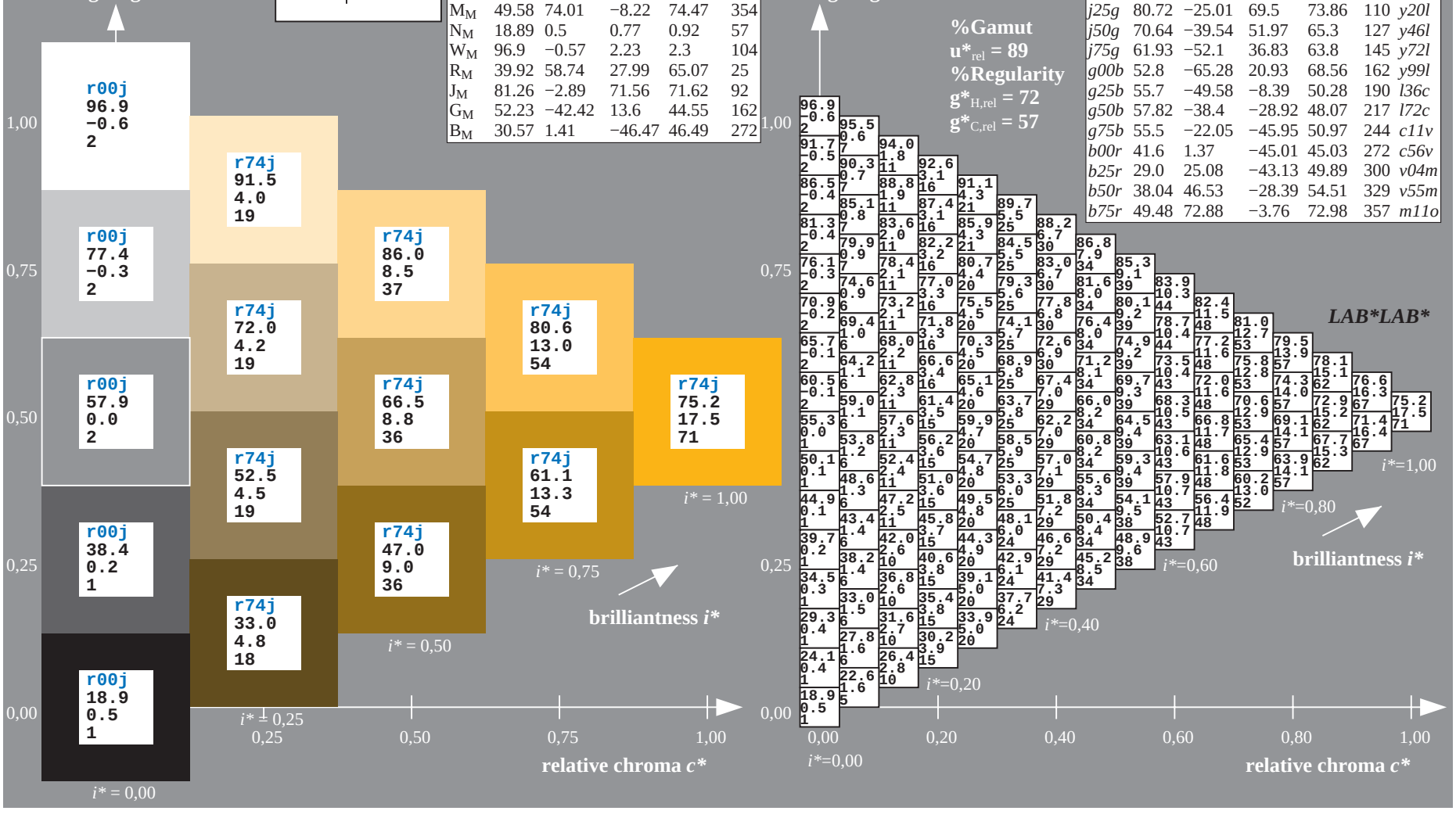
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.68 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

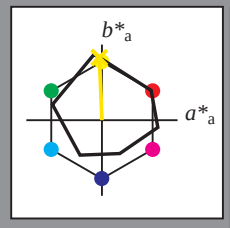
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



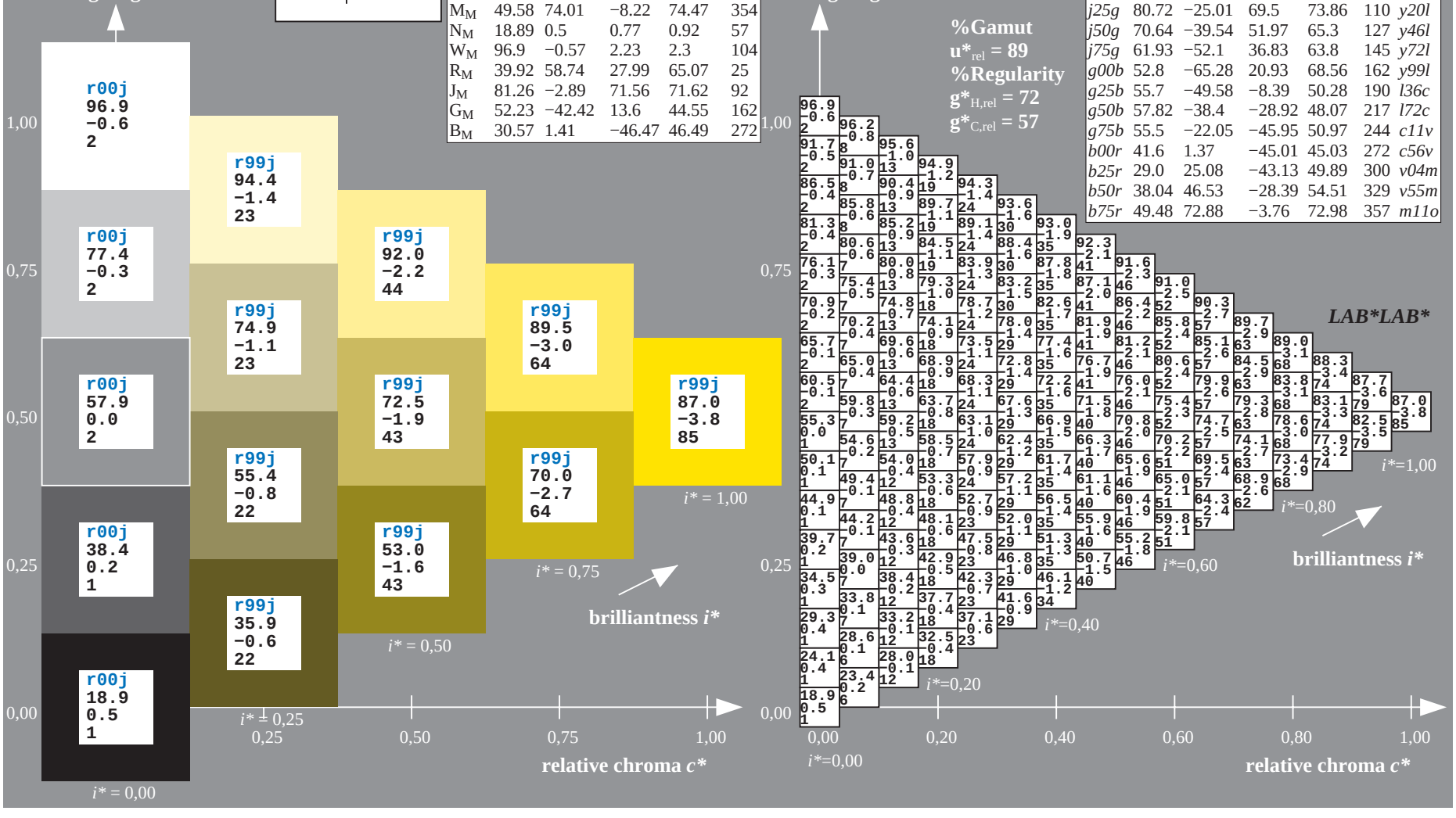
ORS19_96; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0
triangle lightness *t**

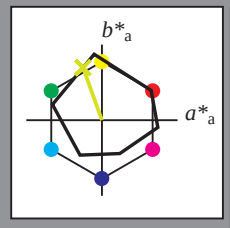
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.305**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96; CIELAB data

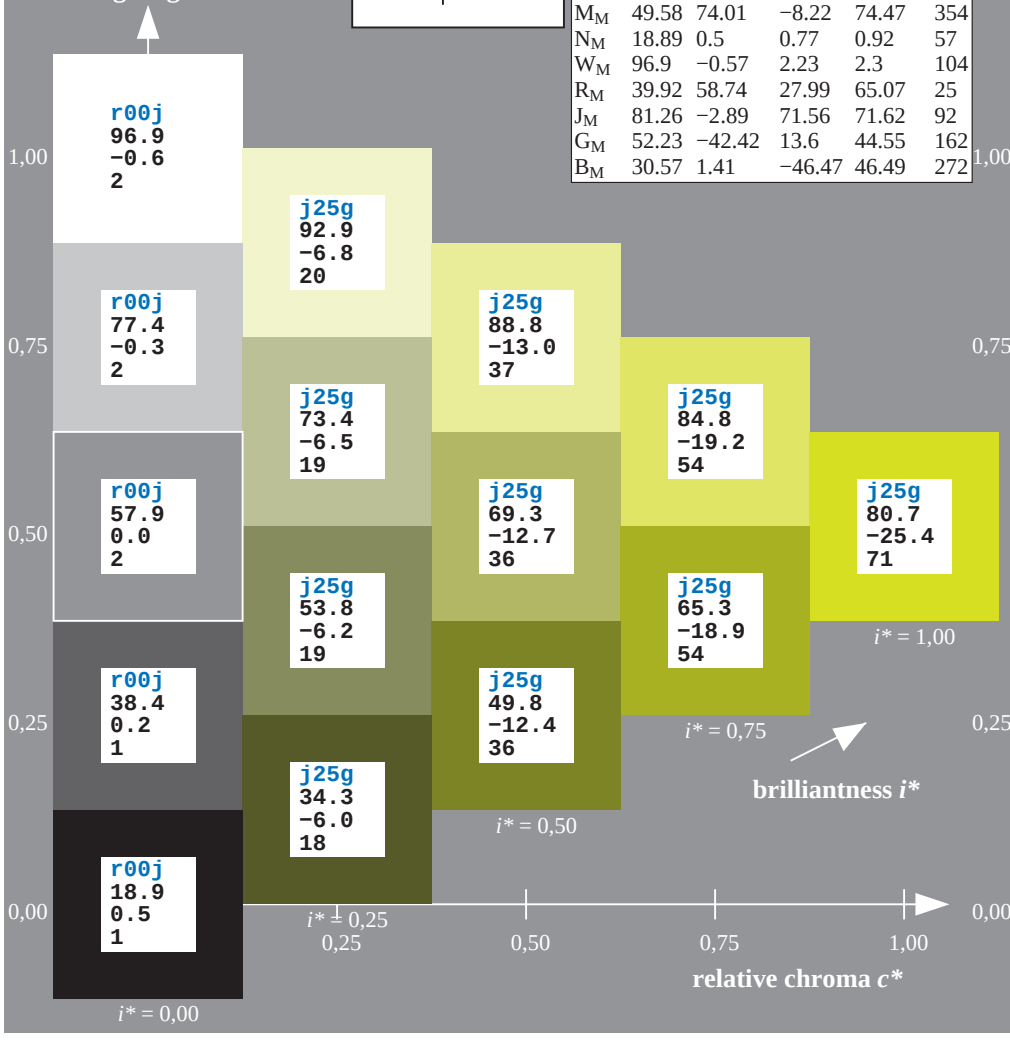
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

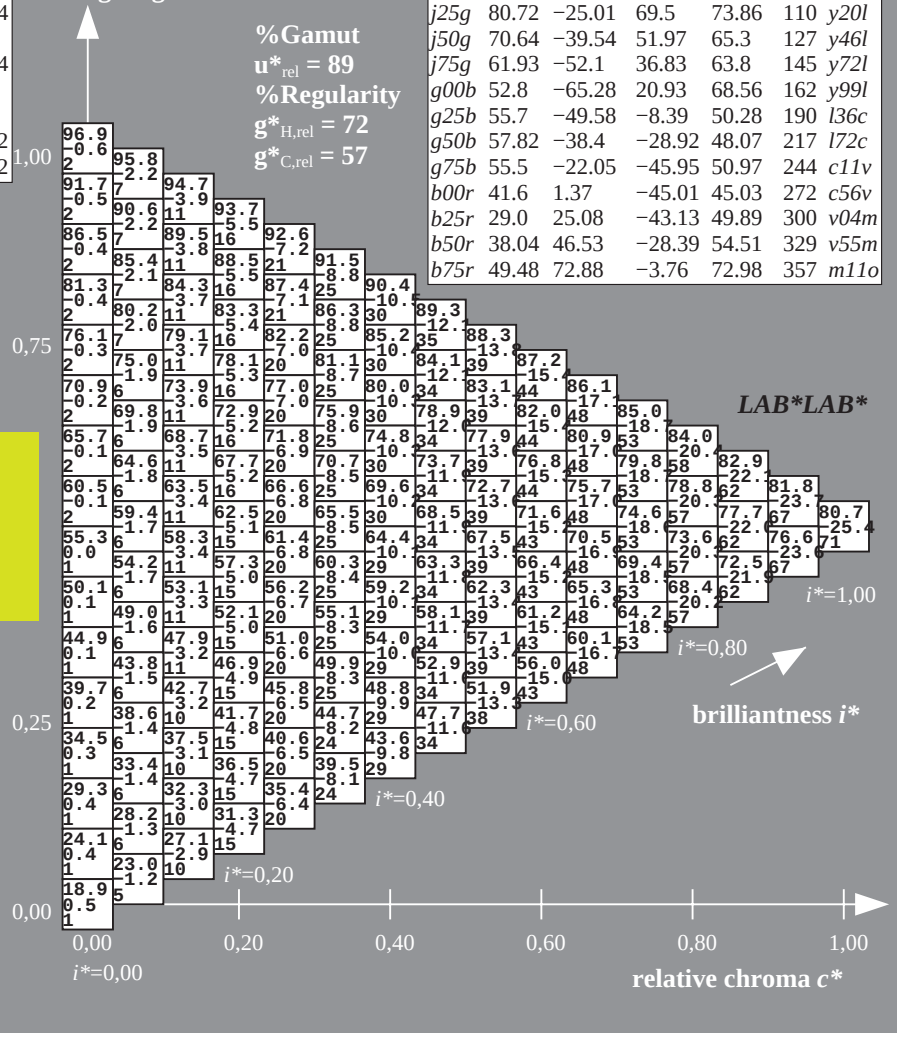
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

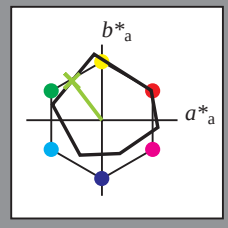
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

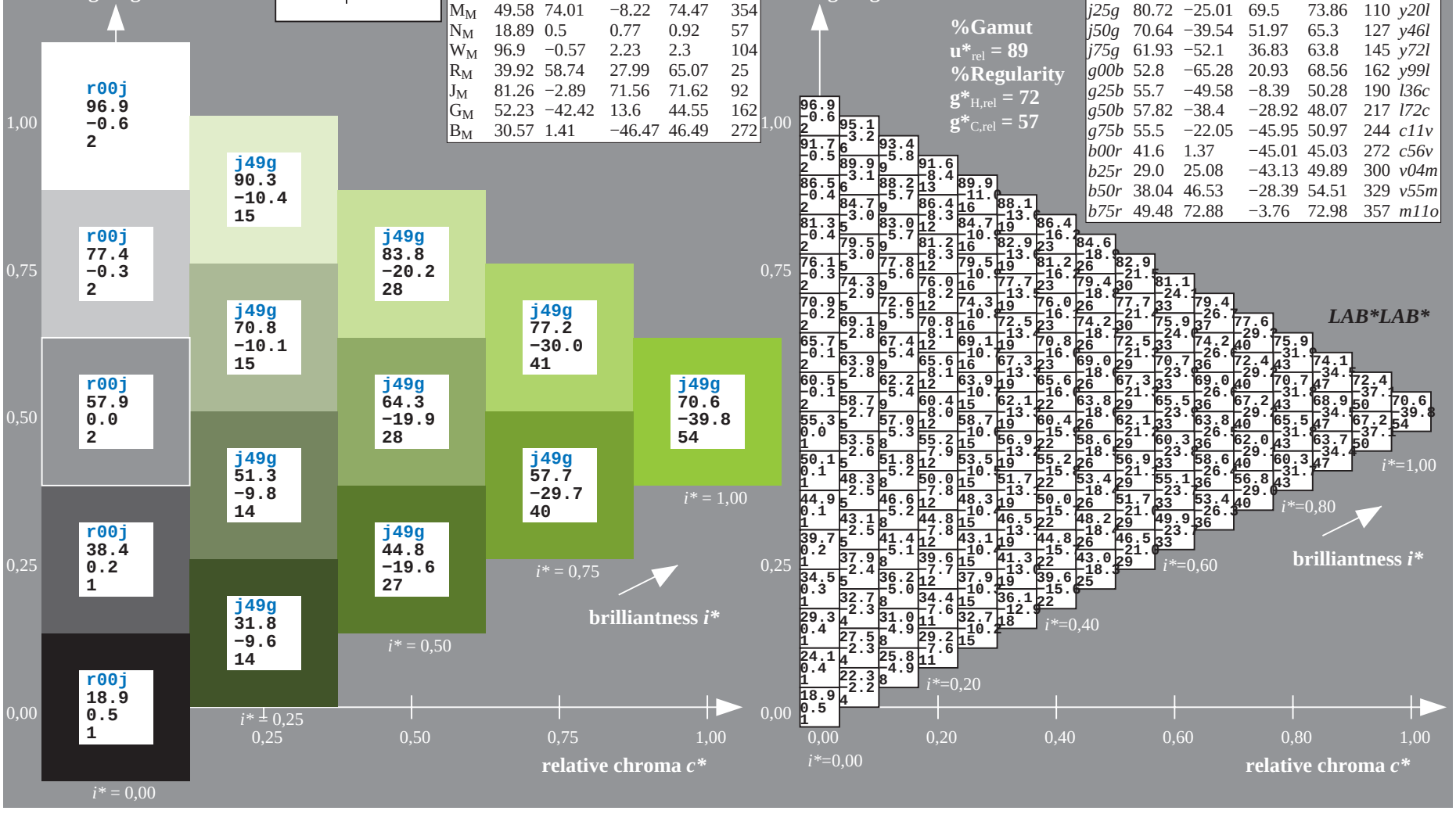
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 71 −40 52
*LAB*LCH**$_{Ma}$: 71 65 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.54 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e* = *j50g
LAB*LAB*

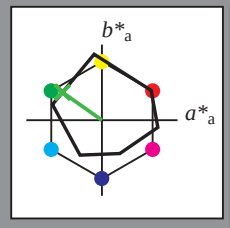
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96; CIELAB data

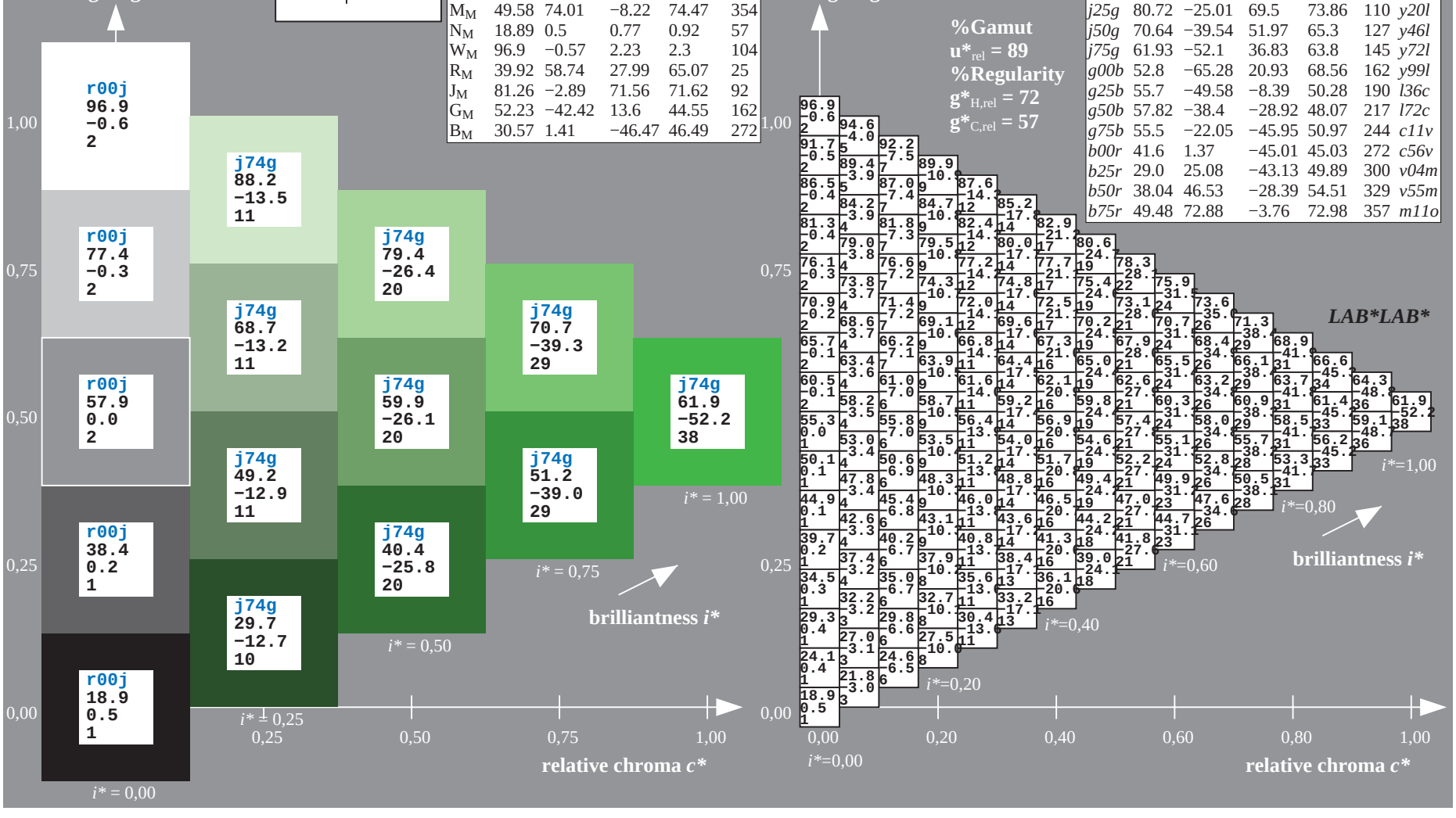
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

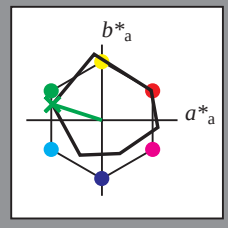
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g00b$ $u^*_d = y99l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



ORS19_96; CIELAB data

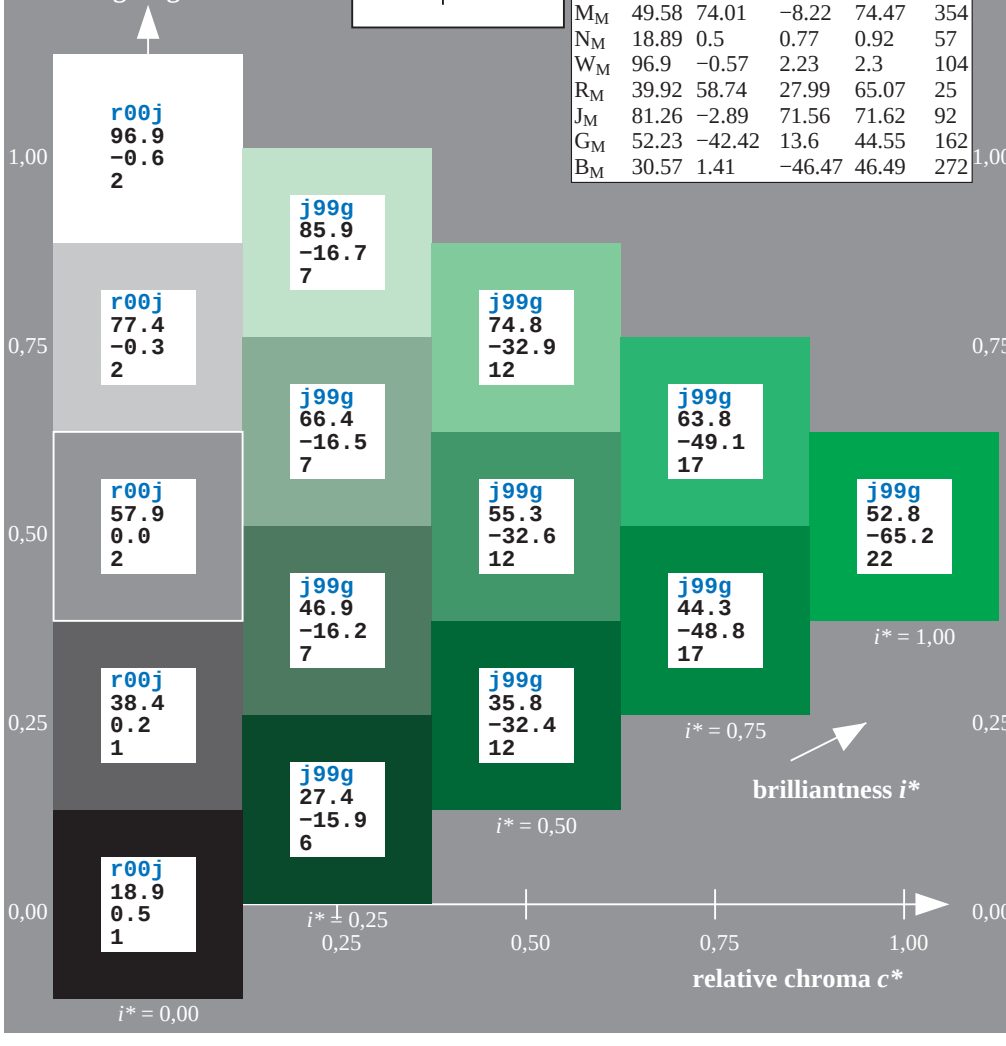
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

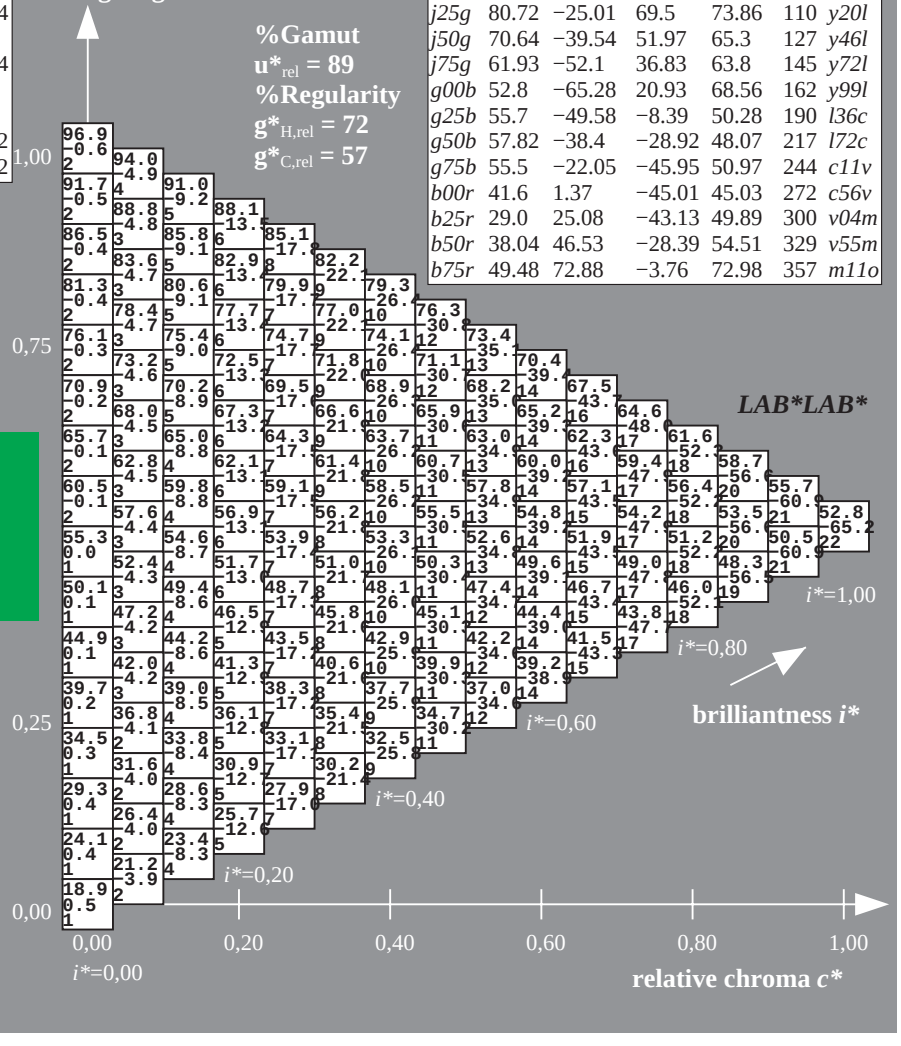
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

ORS19_96a; adapted (a) CIELAB data

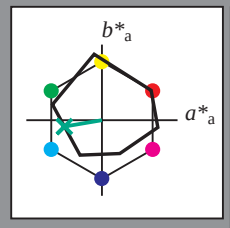
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.527**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96; CIELAB data

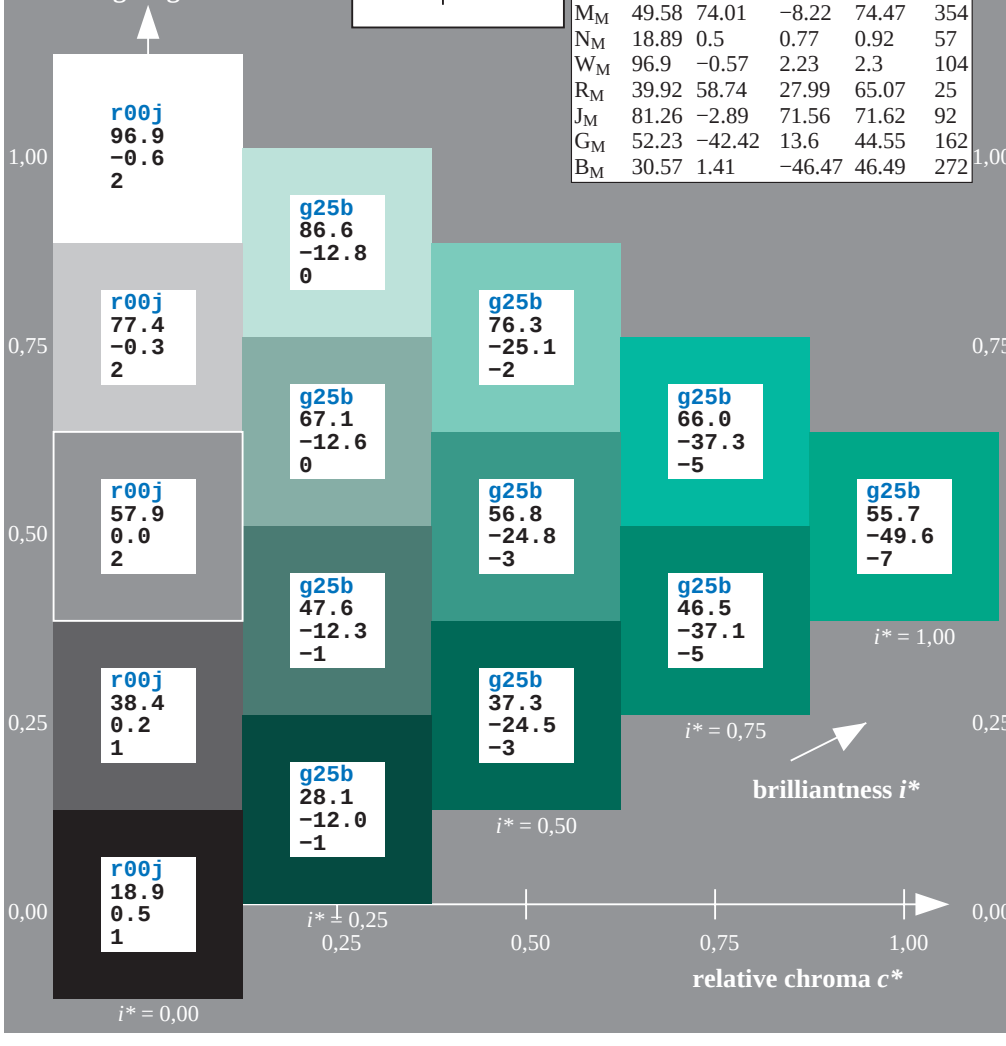
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

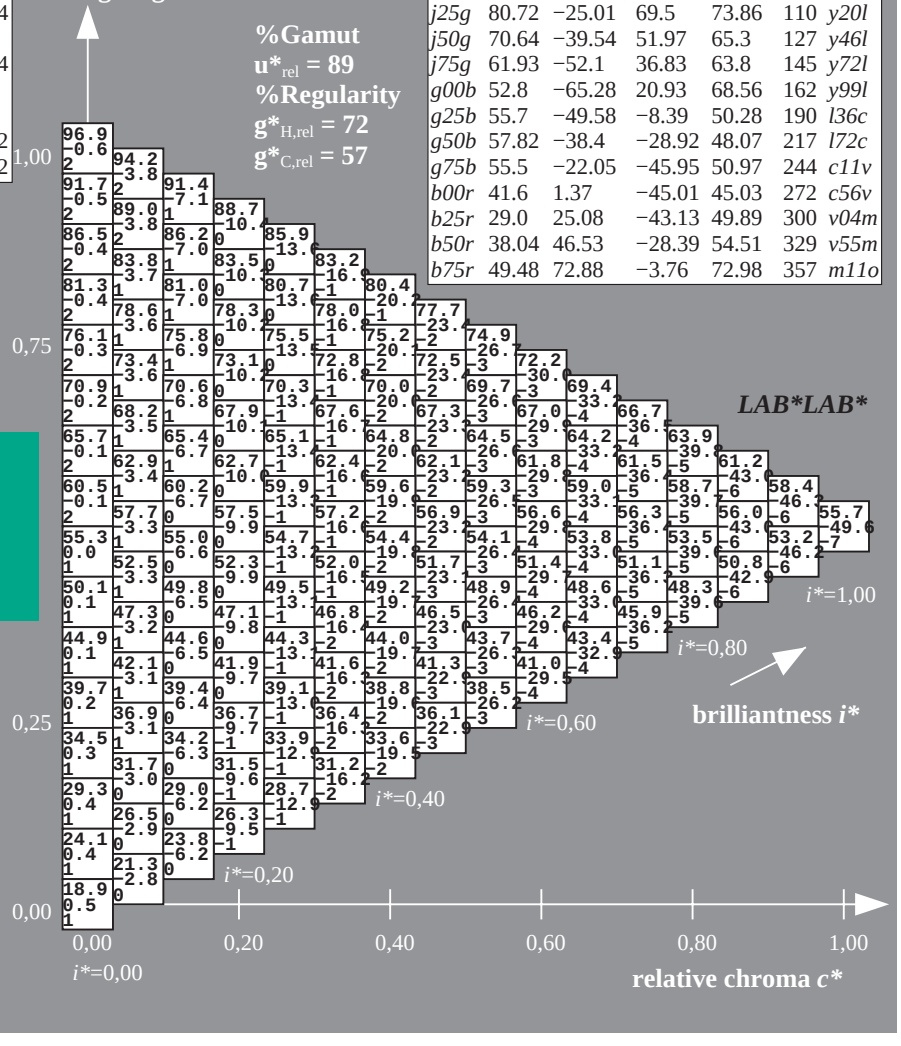
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 −50 −8
*LAB*LCH**$_{Ma}$: 56 50 189
*lab*rgb**$_{Ma}$: 0.0 1.0 0.5
*lab*olv**$_{Ma}$: 0.0 1.0 0.36
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

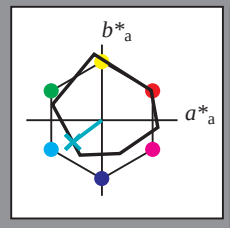
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g50b* u^*_d = *l72c*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96; CIELAB data

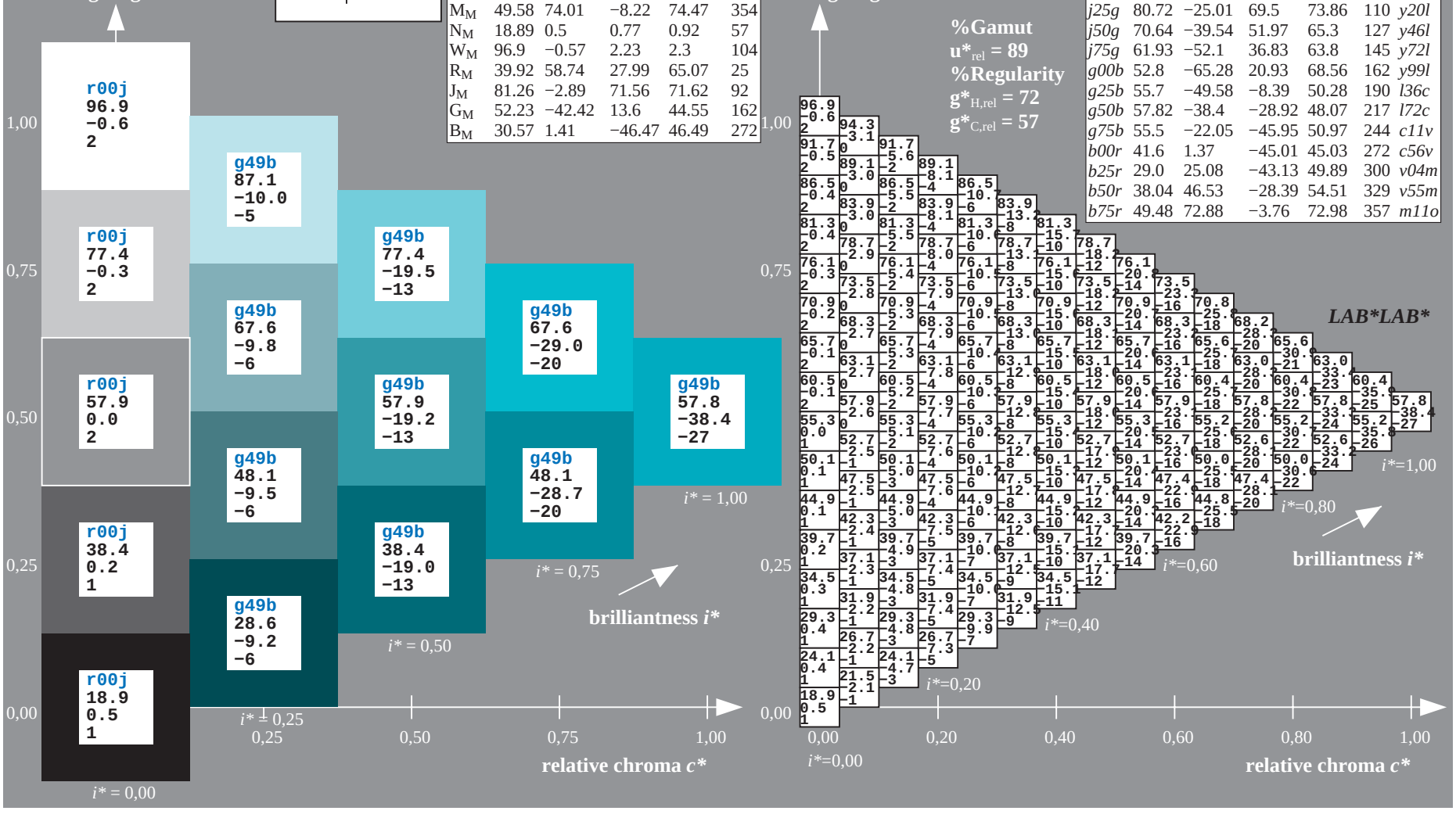
	u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32	
Y_M	90.92	−10.78	89.36	90.01	97	
L_M	52.69	−65.4	22.15	69.05	161	
C_M	59.61	−29.04	−44.69	53.3	237	
V_M	28.39	24.0	−43.18	49.4	299	
M_M	49.58	74.01	−8.22	74.47	354	
N_M	18.89	0.5	0.77	0.92	57	
W_M	96.9	−0.57	2.23	2.3	104	
R_M	39.92	58.74	27.99	65.07	25	
J_M	81.26	−2.89	71.56	71.62	92	
G_M	52.23	−42.42	13.6	44.55	162	
B_M	30.57	1.41	−46.47	46.49	272	

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 58 −38 −29
*LAB*LCH**$_{Ma}$: 58 48 216
*lab*rgb**$_{Ma}$: 0.0 1.0 1.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.72
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

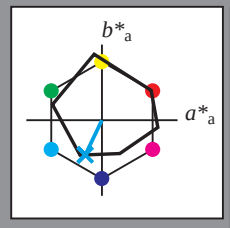
ORS19_96a; adapted (a) CIELAB data

	u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25		*m84o*
r25j	55.85	52.39	47.48	70.7	42		*o17y*
r50j	65.45	35.22	58.37	68.17	59		*o42y*
r75j	75.19	17.82	69.41	71.66	76		*o67y*
j00g	87.03	−3.35	82.83	82.9	92		*o92y*
j25g	80.72	−25.01	69.5	73.86	110		*y20l*
j50g	70.64	−39.54	51.97	65.3	127		*y46l*
j75g	61.93	−52.1	36.83	63.8	145		*y72l*
g00b	52.8	−65.28	20.93	68.56	162		*y99l*
g25b	55.7	−49.58	−8.39	50.28	190		*l36c*
g50b	57.82	−38.4	−28.92	48.07	217		*l72c*
g75b	55.5	−22.05	−45.95	50.97	244		*c11v*
b00r	41.6	1.37	−45.01	45.03	272		*c56v*
b25r	29.0	25.08	−43.13	49.89	300		*v04m*
b50r	38.04	46.53	−28.39	54.51	329		*v55m*
b75r	49.48	72.88	−3.76	72.98	357		*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g75b$ $u^*_d = c11v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

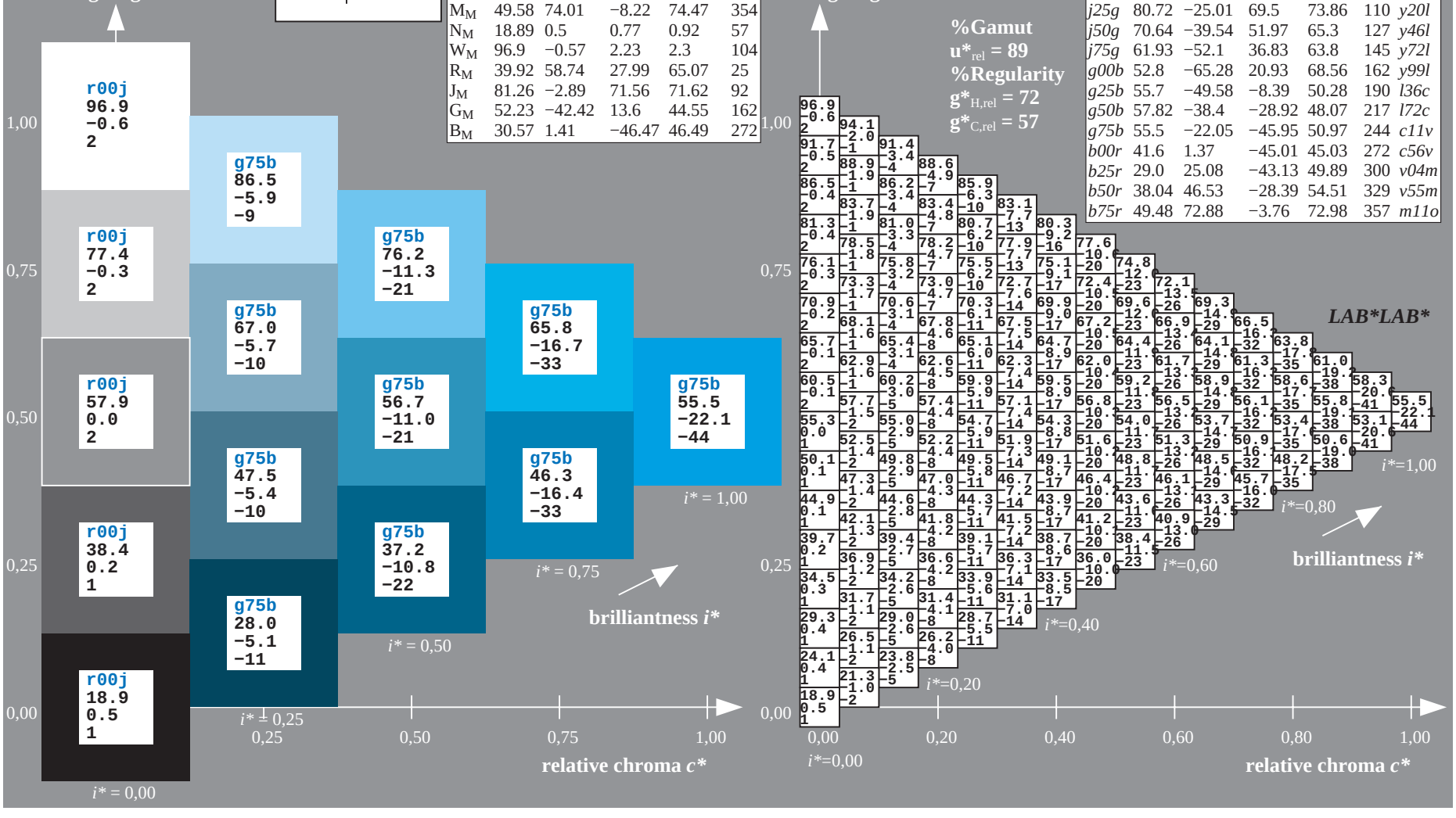
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 55 −22 −46
*LAB*LCH**$_{Ma}$: 55 51 244
*lab*rgb**$_{Ma}$: 0.0 0.5 1.0
*lab*olv**$_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = g75b$
LAB*LAB*

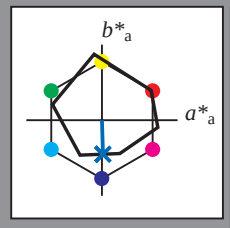
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96; CIELAB data

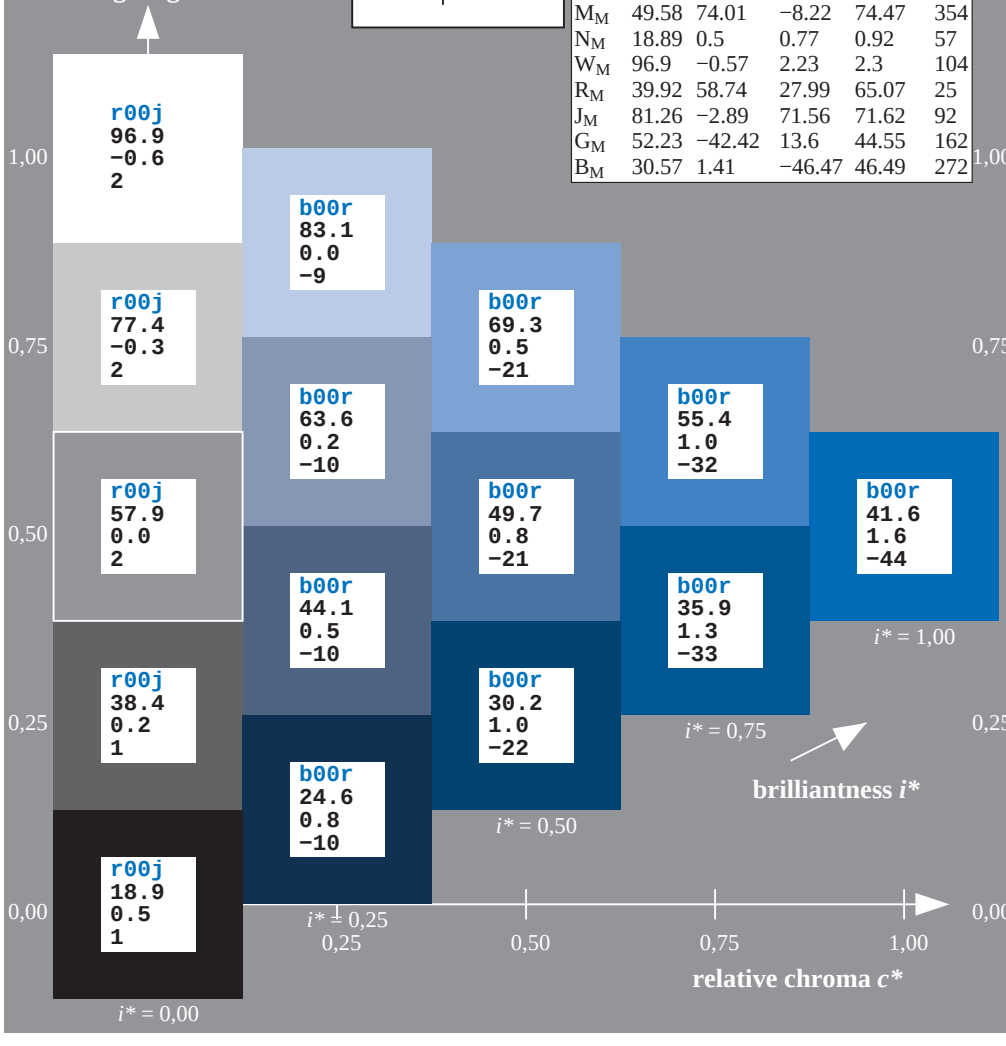
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

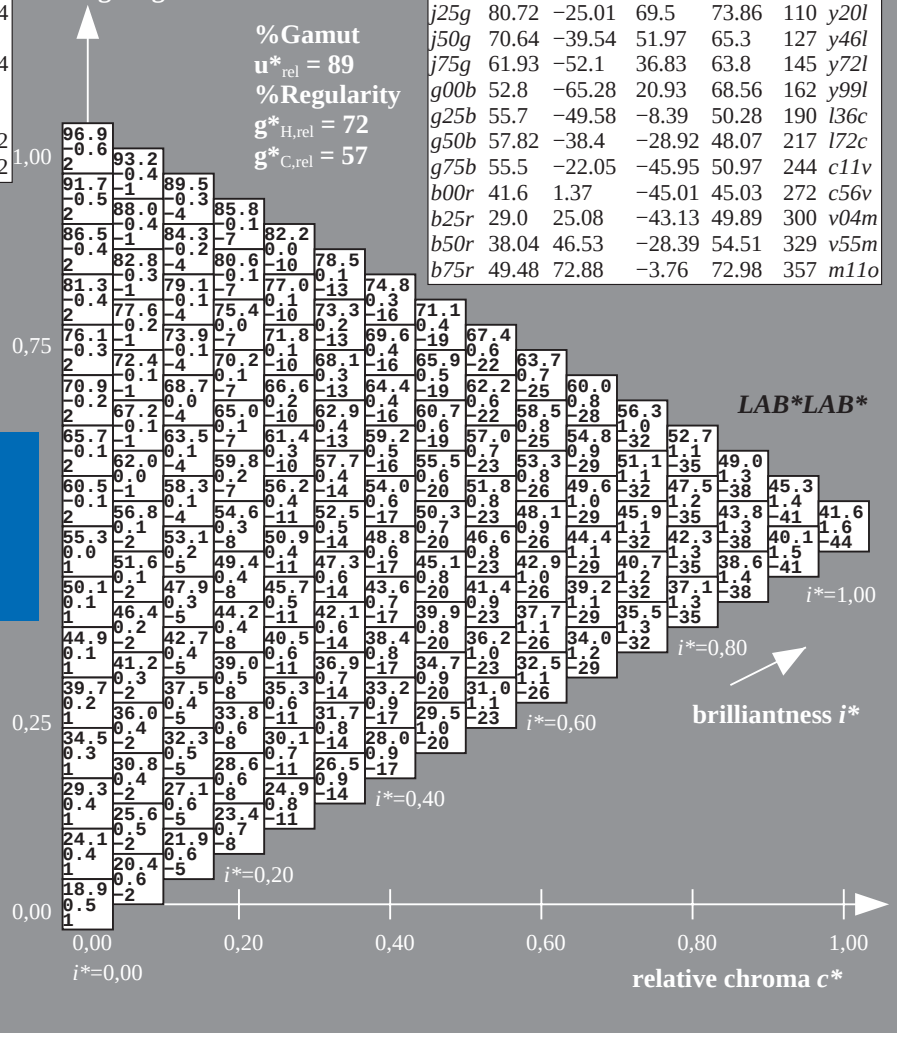
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 1 −45
*LAB*LCH**$_{Ma}$: 42 45 271
*lab*rgb**$_{Ma}$: 0.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.0 0.44 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

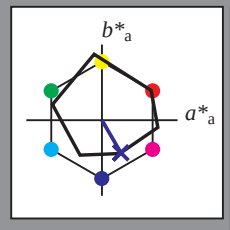
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t



ORS19_96; CIELAB data

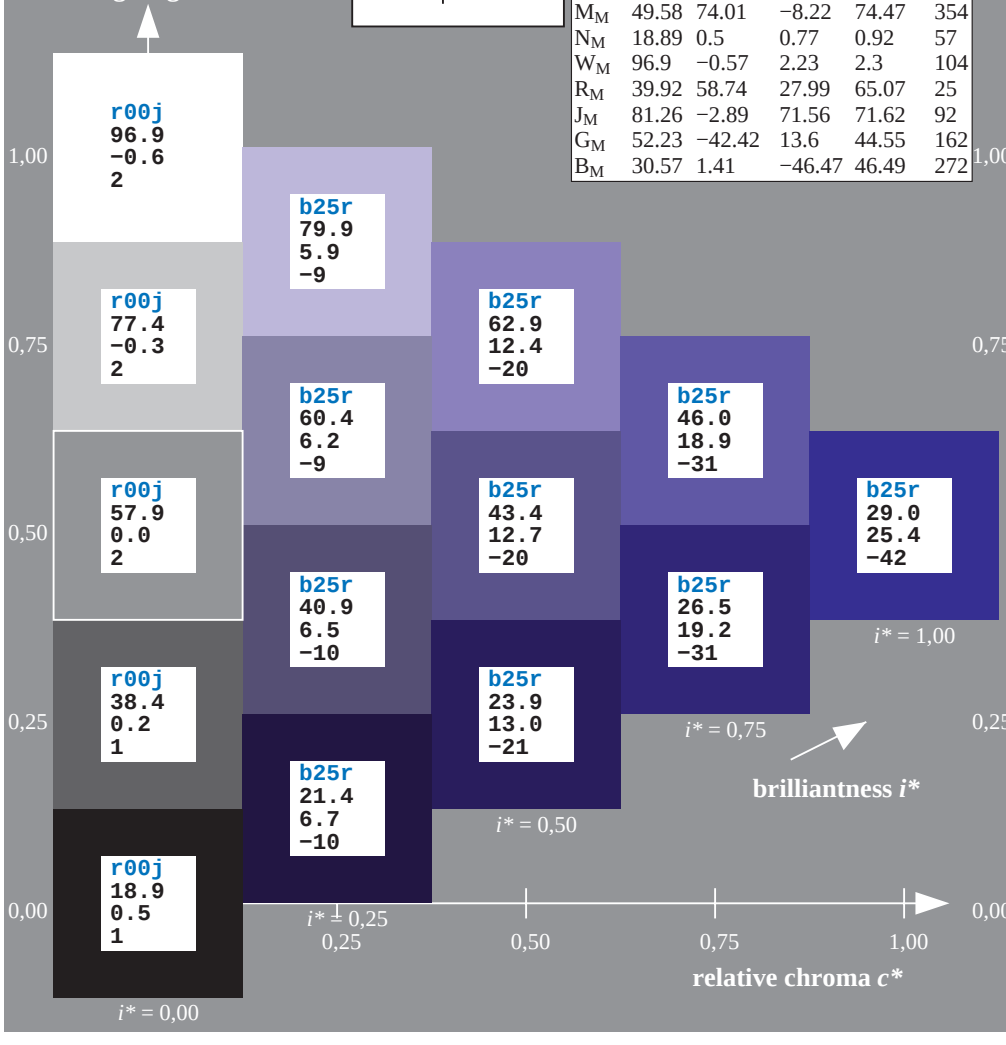
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

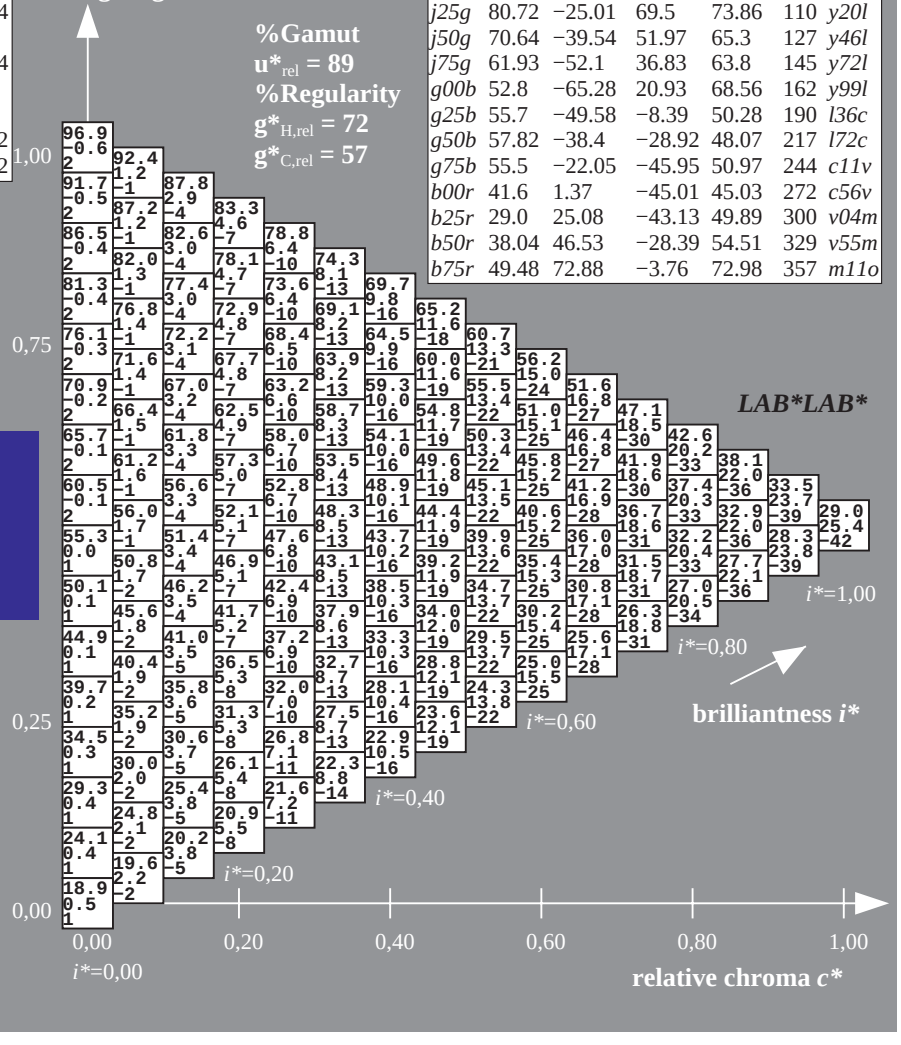
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 29 25 −43
*LAB*LCH**$_{Ma}$: 29 50 300
*lab*rgb**$_{Ma}$: 0.5 0.0 1.0
*lab*olv**$_{Ma}$: 0.04 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

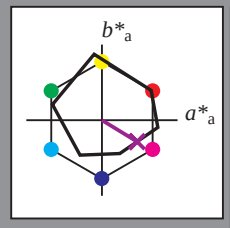
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

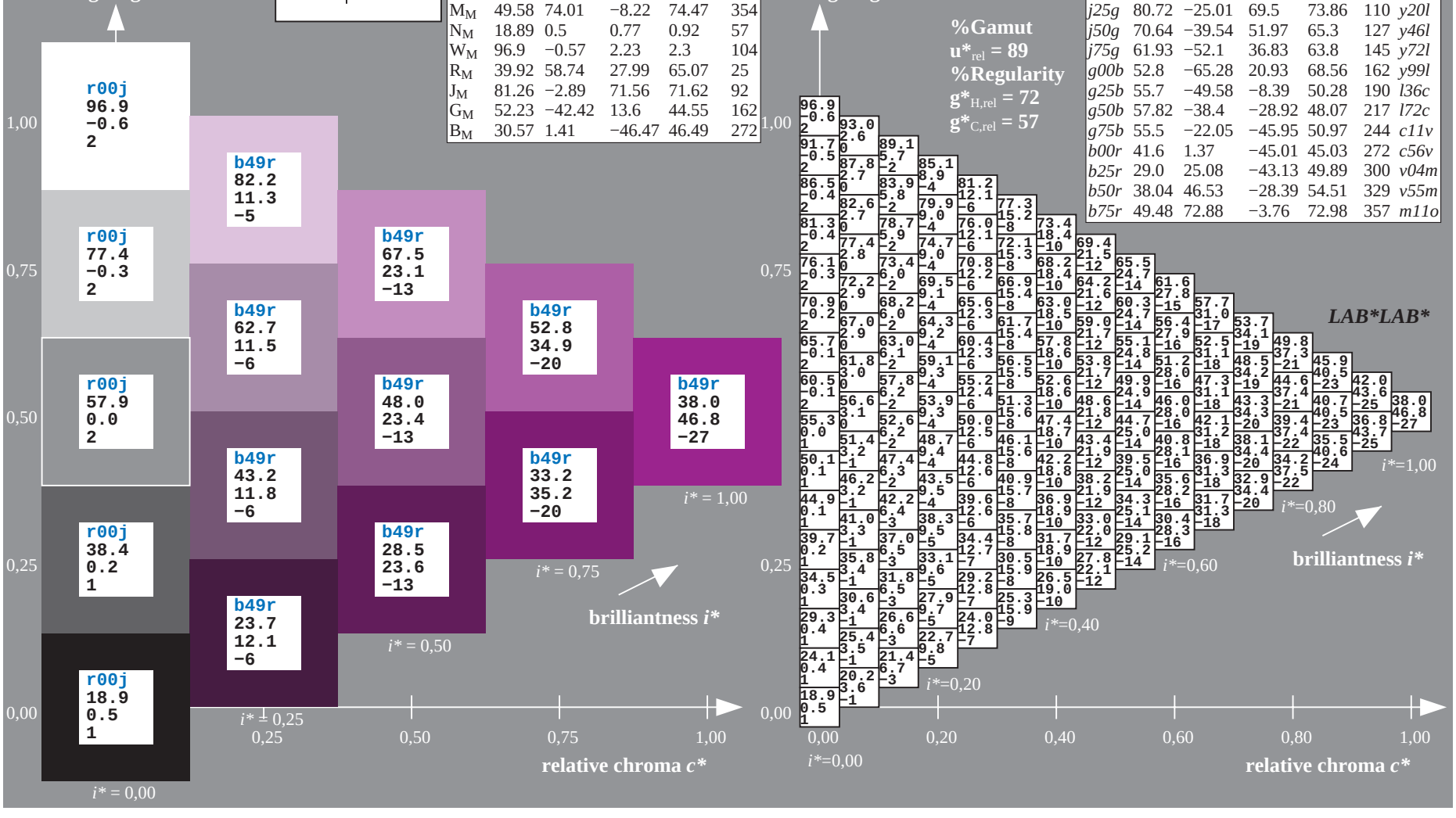
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 47 −28
*LAB*LCH**$_{Ma}$: 38 55 328
*lab*rgb**$_{Ma}$: 1.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.56 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b50r*
LAB*LAB*

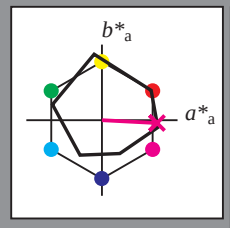
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96; CIELAB data

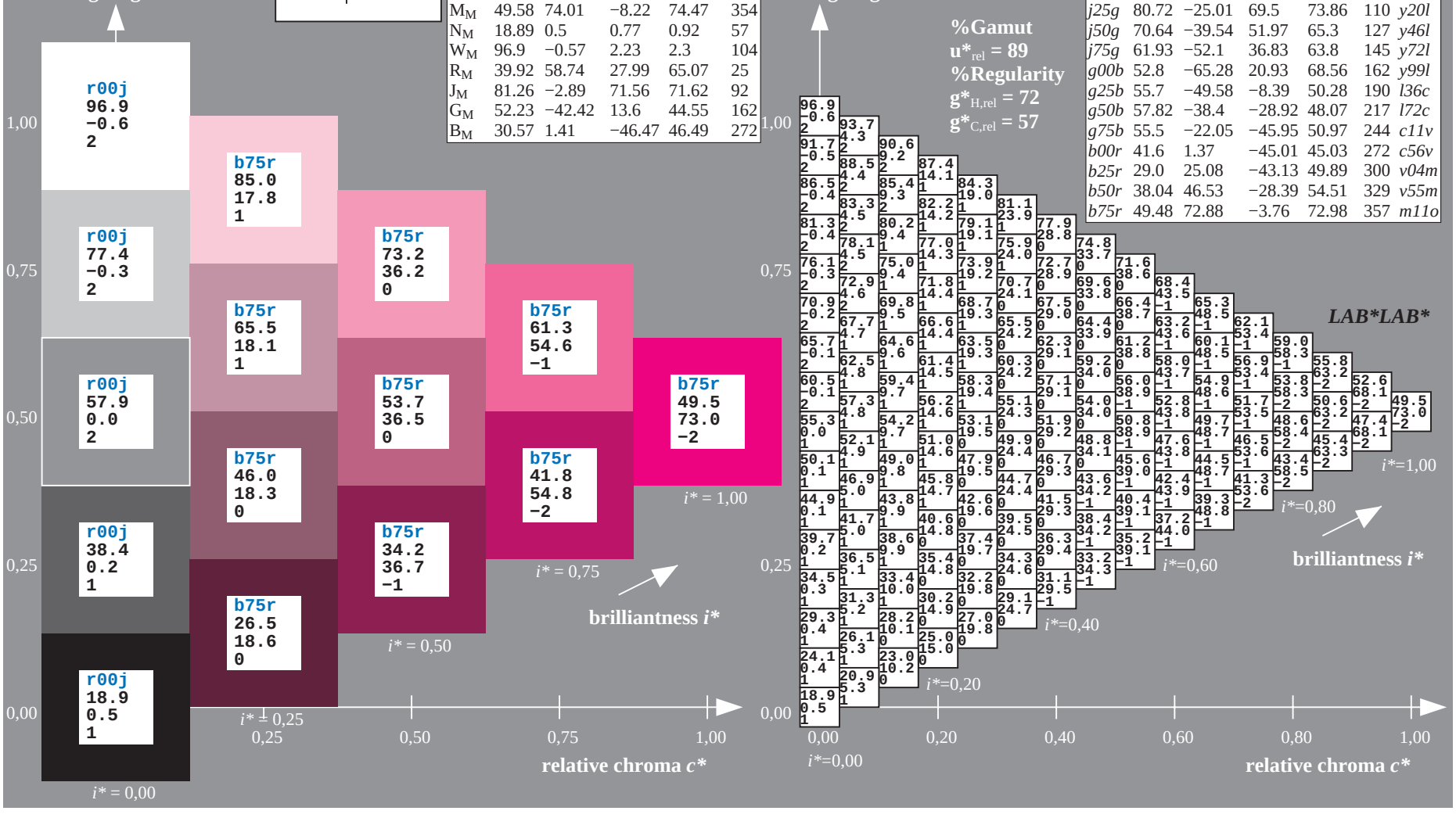
	u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32	
Y_M	90.92	−10.78	89.36	90.01	97	
L_M	52.69	−65.4	22.15	69.05	161	
C_M	59.61	−29.04	−44.69	53.3	237	
V_M	28.39	24.0	−43.18	49.4	299	
M_M	49.58	74.01	−8.22	74.47	354	
N_M	18.89	0.5	0.77	0.92	57	
W_M	96.9	−0.57	2.23	2.3	104	
R_M	39.92	58.74	27.99	65.07	25	
J_M	81.26	−2.89	71.56	71.62	92	
G_M	52.23	−42.42	13.6	44.55	162	
B_M	30.57	1.41	−46.47	46.49	272	

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 73 −4
*LAB*LCH**$_{Ma}$: 49 73 357
*lab*rgb**$_{Ma}$: 1.0 0.0 0.5
*lab*olv**$_{Ma}$: 1.0 0.0 0.89
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
01	18.9 0.5 1	23.1 -7.7 3	27.3 -16.0 6	31.6 -24.2 9	35.8 -32.4 11	40.0 -40.7 14	44.2 -48.9 17	48.5 -57.2 19	52.7 -65.4 22	22.6 8.6 6	27.9 -0.9 12	31.5 -10.0 13	35.8 -18.1 16	40.1 -26.3 19	44.4 -34.4 22	48.6 -42.6 25	52.9 -50.8 27	57.2 -59.0 30	26.4 16.7 11
02	20.1 3.4 -5	24.0 -3.2 -5	28.3 -10.9 -3	32.6 -18.6 -1	36.9 -26.5 1	41.2 -34.5 3	45.5 -42.5 5	49.7 -50.6 7	54.0 -58.7 10	22.7 9.7 0	28.6 0.4 1	32.9 -7.9 4	37.1 -16.1 6	41.3 -24.3 9	45.5 -32.6 12	49.8 -40.8 14	54.0 -49.1 17	58.2 -57.3 20	26.5 17.8 5
03	21.3 6.4 -10	25.0 0.0 -10	29.1 -6.9 -11	33.4 -14.7 -9	37.7 -22.3 -7	42.1 -30.0 -6	46.4 -37.7 -4	50.7 -45.6 -2	55.0 -53.5 0	23.4 11.4 -7	29.8 3.3 -5	33.7 -3.3 -5	38.1 -11.0 -3	42.4 -18.8 -1	46.7 -26.6 1	51.0 -34.6 3	55.2 -42.6 5	59.5 -50.7 8	26.6 18.9 -1
04	22.5 9.3 -16	26.3 2.8 -16	29.9 -3.3 -16	34.2 -10.6 -16	38.4 -18.5 -14	42.8 -26.1 -13	47.1 -33.7 -11	51.5 -41.4 -10	55.8 -49.1 -8	24.5 14.2 -12	31.0 6.2 -10	34.8 -0.1 -10	38.8 -7.0 -10	43.1 -14.9 -8	47.5 -22.5 -7	51.8 -30.1 -5	56.1 -37.9 -4	60.4 -45.7 -2	26.9 19.8 -8
05	23.6 12.3 -21	27.6 5.6 -21	31.1 -0.4 -22	34.8 -6.7 -22	39.2 -14.3 -22	43.5 -22.3 -20	47.8 -30.0 -18	52.2 -37.5 -17	56.5 -45.1 -15	25.7 17.1 -18	32.2 9.2 -16	36.0 2.7 -16	39.6 -3.4 -16	43.9 -10.7 -16	48.2 -18.7 -14	52.5 -26.3 -12	56.9 -33.9 -11	61.2 -41.5 -9	27.9 22.3 -14
06	24.8 15.2 -27	28.8 8.4 -27	32.4 2.3 -27	35.9 -3.7 -27	39.8 -10.2 -27	44.3 -18.0 -28	48.6 -26.1 -25	52.9 -33.8 -23	57.3 -41.4 -22	26.9 20.0 -23	33.4 12.1 -21	37.3 5.4 -21	40.9 -0.6 -21	44.5 -6.8 -22	49.0 -14.4 -22	53.3 -22.5 -19	57.6 -30.1 -18	61.9 -37.7 -16	29.0 25.1 -20
07	26.0 18.1 -32	30.1 11.3 -32	33.7 5.1 -33	37.2 -0.9 -33	40.8 -7.0 -33	44.8 -13.8 -33	49.4 -21.7 -33	53.7 -29.8 -31	58.0 -37.6 -29	28.1 23.0 -29	34.6 15.1 -27	38.6 8.3 -27	42.2 2.2 -27	45.7 -3.8 -27	49.5 -10.3 -27	54.1 -18.1 -27	58.3 -26.2 -25	62.7 -33.9 -23	30.2 27.9 -25
08	27.2 21.1 -38	31.3 14.1 -38	35.0 7.9 -38	38.5 1.8 -38	42.1 -4.2 -38	45.8 -10.5 -39	49.8 -17.4 -39	54.5 -25.3 -39	58.7 -33.6 -36	29.3 25.9 -34	35.8 18.0 -32	39.8 11.1 -32	43.5 4.9 -32	47.0 -1.0 -33	50.6 -7.2 -33	54.5 -13.9 -33	59.2 -21.8 -33	63.4 -30.0 -31	31.3 30.8 -31
09	28.4 24.0 -43	32.5 17.0 -43	36.2 10.7 -44	39.8 4.6 -44	43.3 -1.4 -44	46.9 -7.5 -44	50.7 -13.9 -44	54.9 -21.0 -44	59.6 -29.0 -45	30.5 28.9 -40	37.0 20.9 -38	41.0 14.0 -38	44.7 7.7 -38	48.3 1.7 -38	51.8 -4.3 -38	55.5 -10.6 -38	59.6 -17.5 -39	64.3 -25.5 -39	32.5 33.7 -36
10	30.1 24.7 16	35.1 15.7 22	39.8 7.2 27	45.9 -3.7 34	48.7 -14.0 34	52.6 -22.6 36	56.8 -31.0 39	61.1 -39.1 42	65.4 -47.3 44	33.8 32.8 21	39.0 23.6 27	43.6 15.2 32	48.6 6.3 38	54.9 -5.1 45	57.5 -15.7 45	61.2 -24.7 47	65.3 -33.2 49	69.5 -41.4 52	37.6 40.9 26
11	30.2 25.9 9	36.1 16.5 11	41.0 7.7 17	46.6 -2.5 23	49.8 -12.2 24	53.9 -20.6 26	58.2 -28.8 29	62.5 -36.9 32	66.8 -45.1 35	33.9 34.0 14	39.8 24.6 16	44.9 15.6 22	49.6 7.1 27	55.7 -3.9 34	58.5 -14.1 34	62.4 -22.8 37	66.6 -31.1 39	70.8 -39.3 42	37.7 42.1 19
12	30.3 27.0 4	36.2 17.6 5	42.1 8.3 6	47.4 -1.2 12	51.0 -10.3 14	55.3 -18.4 17	59.6 -26.6 19	63.9 -34.7 22	68.2 -42.9 25	34.0 35.1 8	39.9 25.8 10	45.9 16.4 11	50.8 7.6 17	56.4 -2.6 23	59.6 -12.4 24	63.7 -20.7 27	67.9 -28.9 29	72.2 -37.1 32	37.8 43.2 13
13	30.4 28.1 -3	36.3 18.7 -1	42.2 9.4 0	48.1 0.1 1	52.4 -8.1 4	56.6 -16.4 7	60.8 -24.6 9	65.0 -32.9 12	69.3 -41.1 15	34.1 36.1 2	40.0 26.8 4	46.0 17.5 5	51.9 8.2 6	57.1 -1.3 12	60.8 -10.4 14	65.1 -18.5 17	69.4 -26.7 20	73.6 -34.8 22	37.9 44.2 7
14	30.5 28.5 -10	36.7 19.7 -8	42.9 11.1 -6	49.3 3.0 -4	53.2 -3.6 -4	57.6 -11.3 -3	61.9 -19.0 -1	66.2 -26.9 1	70.5 -34.9 3	34.2 37.3 -4	40.1 27.9 -2	46.1 18.6 -1	52.0 9.3 0	57.9 0.0 2	62.1 -8.3 4	66.3 -16.5 7	70.6 -24.7 10	74.8 -33.0 12	38.0 45.3 1
15	31.4 30.6 -16	37.6 22.2 -14	44.0 13.9 -12	50.5 6.0 -10	54.3 -0.4 -10	58.3 -7.3 -10	62.6 -15.1 -8	67.0 -22.7 -7	71.3 -30.4 -5	34.2 37.4 -11	40.3 28.4 -10	46.4 19.6 -8	52.6 11.0 -6	59.1 2.9 -4	63.0 -3.7 -4	67.3 -11.4 -2	71.6 -19.2 -1	75.9 -27.0 1	38.1 46.4 -5
16	32.4 33.2 -22	38.8 24.9 -20	45.2 16.8 -17	51.7 8.9 -15	55.5 2.4 -15	59.1 -3.7 -16	63.4 -11.0 -16	67.7 -19.0 -14	72.0 -26.5 -12	34.9 39.2 -17	41.1 30.5 -16	47.4 22.0 -14	53.8 13.8 -12	60.3 5.8 -9	64.0 -0.5 -10	68.1 -7.4 -10	72.4 -15.3 -8	76.7 -22.9 -6	38.0 46.3 -12
17	33.5 35.9 -27	39.9 27.8 -25	46.4 19.8 -23	52.9 11.8 -21	56.8 5.2 -21	60.4 -0.8 -21	64.0 -7.1 -21	68.5 -14.7 -21	72.8 -22.7 -19	35.9 41.5 -23	42.2 33.1 -21	48.5 24.8 -19	55.0 16.7 -17	61.5 8.8 -15	65.3 2.3 -15	68.9 -3.8 -15	73.2 -11.1 -16	77.4 -19.1 -13	38.5 47.8 -19
18	34.6 38.8 -33	41.1 30.7 -31	47.6 22.7 -28	54.1 14.8 -26	58.1 8.0 -26	61.7 1.9 -27	65.2 -4.1 -27	69.0 -10.6 -27	73.6 -18.4 -27	36.9 44.1 -29	43.3 35.8 -27	49.7 27.6 -25	56.1 19.6 -23	62.6 11.7 -20	66.6 5.0 -21	70.1 -1.0 -21	73.8 -7.2 -21	78.3 -14.8 -21	39.4 49.9 -25
19	41.3 49.0 31	46.6 39.5 37	51.3 30.9 42	56.0 22.6 48	60.8 13.9 53	66.2 4.1 60	72.9 -8.0 67	75.2 -19.0 66	78.6 -28.4 68	45.0 57.1 36	50.4 47.4 42	55.2 38.7 48	59.8 30.4 53	64.5 22.0 58	69.5 13.0 64	75.1 2.9 70	81.9 -9.4 78	84.1 -20.5 77	48.7 65.2 41
20	41.4 50.2 24	47.3 40.8 26	52.5 31.4 32	57.2 22.9 37	61.9 14.5 43	67.1 5.1 49	73.7 -6.7 56	76.1 -17.5 56	79.6 -26.7 57	45.1 58.3 29	51.0 48.9 31	56.3 39.3 37	61.1 30.7 43	65.7 22.4 48	70.5 13.7 53	76.0 4.0 60	82.7 -8.1 67	85.0 -19.1 67	48.9 66.3 34
21	41.5 51.3 18	47.4 41.9 19	53.3 32.6 21	58.5 23.3 27	63.1 14.9 32	68.1 6.0 38	74.4 -5.4 45	77.0 -16.0 45	80.7 -24.9 47	45.2 59.4 23	51.1 50.0 24	57.1 40.6 26	62.3 31.2 32	67.0 22.8 38	71.7 14.3 43	76.9 5.0 49	83.4 -6.8 57	85.8 -17.6 56	49.0 67.5 28
22	41.6 52.3 12	47.5 43.0 13	53.4 33.7 15	59.3 24.3 16	64.4 15.3 22	69.1 6.8 28	75.2 -4.1 35	78.0 -14.4 35	81.9 -23.0 37	45.3 60.5 17	51.3 51.1 18	57.2 41.8 20	63.1 32.4 21	68.2 23.2 27	72.9 14.8 33	77.8 5.9 38	84.2 -5.5 46	86.8 -16.1 45	49.1 68.6 22
23	41.7 53.4 6	47.6 44.1 8	53.5 34.8 9	59.4 25.5 10	65.4 16.1 11	70.3 7.3 17	75.9 -2.9 24	79.1 -12.6 24	83.2 -21.0 27	45.4 61.5 11	51.4 52.2 12	57.3 42.9 14	63.2 33.6 15	69.1 24.2 16	74.1 15.2 22	78.8 6.7 28	84.9 -4.3 35	87.7 -14.5 35	49.2 69.6 16
24	41.8 54.5 0	47.7 45.2 2	53.6 35.9 3	59.5 26.6 4	65.5 17.2 5	71.4 7.9 7	76.6 -1.6 13	80.3 -10.7 14	84.6 -18.8 17	45.5 62.6 5	51.5 53.3 6	57.4 44.0 8	63.3 34.7 9	69.2 25.4 10	75.1 16.0 12	80.0 7.2 17	85.7 -3.0 24	88.8 -12.8 25	49.3 70.7 10
25	41.9 55.6 -6	47.8 46.3 -5	53.7 37.0 -3	59.7 27.7 -2	65.6 18.3 -1	71.5 9.0 1	77.4 -0.3 2	81.6 -8.5 5	85.8 -16.8 7	45.6 63.7 -1	51.6 54.4 0	57.5 45.0 2	63.4 35.7 3	69.3 26.4 4	75.2 17.1 5	81.1 7.8 7	86.4 -1.7 13	90.0 -10.8 15	49.4 71.8 4
26	41.7 55.3 -14	47.7 46.2 -12	53.7 37.1 -11	59.8 28.1 -9	65.9 19.3 -8	72.1 10.7 -6	78.6 2.6 -4	82.5 -4.0 -4	86.8 -11.7 -2	45.7 64.8 -7	51.7 55.5 -6	57.6 46.2 -4	63.5 36.9 -3	69.4 27.5 -2	75.3 18.2 -1	81.2 8.9 1	87.1 -0.4 2	91.4 -8.7 5	49.5 72.9 -2
27	42.2 56.6 -20	48.3 47.7 -19	54.4 38.9 -17	60.6 30.2 -15	66.9 21.8 -13	73.3 13.5 -11	79.8 5.6 -9	83.5 -0.8 -9	87.6 -7.7 -9	45.5 64.4 -15	51.5 55.2 -14	57.5 46.1 -12	63.5 37.0 -11	69.5 28.0 -9	75.7 19.2 -7	81.9 10.6 -6	88.3 2.5 -3	92.2 -4.1 -4	49.6 74.0 -8

	T	U	V	W	X	Y	Z	a	b	c	d	e	f	g	h	i	j	k	LAB*LAB*		
01	31.2 7.9 16	36.9 -2.3 23	40.1 -12.1 24	44.2 -20.5 26	48.4 -28.6 29	52.7 -36.8 32	57.0 -44.9 35	61.3 -53.1 37	96.9 -0.6 2	90.9 7.6 7	84.9 15.9 12	78.8 24.1 17	72.8 32.3 21	66.8 40.5 26	60.8 48.7 31	54.8 56.9 36	48.7 65.2 41	18.9 0.5 1	18.9 0.5 1	18.9 0.5 1	18.9 0.5 1
02	32.4 8.4 6	37.6 -1.0 12	41.3 -10.1 14	45.6 -18.3 16	49.9 -26.4 19	54.1 -34.6 22	58.4 -42.8 25	62.7 -50.9 27	92.2 -4.1 -4	87.1 -0.4 2	81.1 7.8 7	75.1 16.0 12	69.1 24.2 16	63.1 32.4 21	57.1 40.6 26	51.0 48.9 31	45.0 57.1 36	28.6 0.4 1	28.6 0.4 1	28.6 0.4 1	28.6 0.4 1
03	32.5 9.6 0	38.4 0.2 1	42.6 -8.0 4	46.8 -16.2 6	51.1 -24.5 9	55.3 -32.7 12	59.5 -41.0 14	63.7 -49.2 17	87.6 -7.7 -9	82.5 -4.0 -4	77.4 -0.3 2	71.4 7.9 7	65.4 16.1 11	59.3 24.3 16	53.3 32.6 21	47.3 40.8 26	41.3 49.0 31	38.4 0.2 1	38.4 0.2 1	38.4 0.2 1	38.4 0.2 1
04	33.1 11.3 -7	39.6 3.2 -4	43.5 -3.5 -5	47.8 -11.2 -3	52.1 -18.9 -1	56.4 -26.8 1	60.7 -34.7 3	65.0 -42.8 5	82.9 -11.2 -15	77.8 -7.6 -10	72.7 -3.9 -4	67.6 -0.2 2	61.6 8.0 6	55.6 16.3 11	49.6 24.5 16	43.6 32.7 21	37.6 40.9 26	48.1 0.1 1	48.1 0.1 1	48.1 0.1 1	48.1 0.1 1
05	34.3 14.1 -12	40.8 6.1 -10	44.5 -0.2 -10	48.6 -7.2 -10	52.9 -15.0 -8	57.2 -22.6 -7	61.6 -30.3 -5	65.9 -38.0 -3	78.3 -14.8 -21	73.2 -11.1 -16	68.1 -7.4 -10	63.0 -3.7 -4	57.9 0.0 2	51.9 8.2 6	45.9 16.4 11	39.8 24.6 16	33.8 32.8 21	57.9 0.0 2	57.9 0.0 2	57.9 0.0 2	57.9 0.0 2
06	35.5 17.0 -18	42.0 9.0 -15	45.8 2.5 -16	49.4 -3.5 -16	53.7 -10.8 -16	57.9 -18.8 -14	62.3 -26.4 -12	66.6 -34.0 -11	73.6 -18.4 -27	68.5 -14.7 -21	63.4 -11.0 -16	58.3 -7.3 -10	53.2 -3.6 -4	48.1 0.1 1	42.1 8.3 6	36.1 16.5 11	30.1 24.7 16	67.6 -0.2 2	67.6 -0.2 2	67.6 -0.2 2	67.6 -0.2 2
07	36.6 19.9 -23	43.1 12.0 -21	47.1 5.3 -21	50.6 -0.7 -21	54.3 -7.0 -21	58.8 -14.5 -22	63.0 -22.6 -19	67.3 -30.2 -18	68.9 -21.9 -33	63.8 -18.2 -27	58.8 -14.5 -22	53.7 -10.8 -16	48.6 -7.2 -10	43.5 -3.5 -5	38.4 0.2 1	32.4 8.4 6	26.4 16.7 11	77.4 -0.3 2	77.4 -0.3 2	77.4 -0.3 2	77.4 -0.3 2
08	37.8 22.8 -29	44.3 14.9 -26	48.3 8.1 -27	51.9 2.0 -27	55.5 -4.0 -27	59.3 -10.5 -27	63.8 -18.2 -27	68.1 -26.4 -25	64.3 -25.5 -39	59.2 -21.8 -33	54.1 -18.1 -27	49.0 -14.4 -22	43.9 -10.7 -16	38.8 -7.0 -10	33.7 -3.3 -5	28.6 0.4 1	22.6 8.6 6	87.1 -0.4 2	87.1 -0.4 2	87.1 -0.4 2	87.1 -0.4 2
09	39.0 25.8 -34	45.5 17.9 -32	49.6 11.0 -32	53.2 4.8 -32	56.7 -1.2 -32	60.3 -7.3 -33	64.3 -14.0 -33	68.9 -21.9 -33	59.6 -29.0 -45	54.5 -25.3 -39	49.4 -21.7 -33	44.3 -18.0 -28	39.2 -14.3 -22	34.2 -10.6 -16	29.1 -6.9 -11	24.0 -3.2 -5	18.9 0.5 1	96.9 -0.6 2	96.9 -0.6 2	96.9 -0.6 2	96.9 -0.6 2
10	42.8 31.5 32	47.5 23.0 37	52.2 14.6 43	57.4 5.2 49	63.9 -6.6 56	66.3 -17.4 56	69.9 -26.6 57	73.8 -35.3 59	96.9 -0.6 2	96.2 -1.8 13	95.4 -3.1 24	94.7 -4.4 35	93.9 -5.7 46	93.2 -7.0 57	92.4 -8.2 68	91.7 -9.5 78	90.9 -10.8 89	18.9 0.5 1	18.9 0.5 1	18.9 0.5 1	18.9 0.5 1
11	43.6 32.7 21	48.7 23.4 27	53.4 15.1 32	58.3 6.2 38	64.7 -5.3 45	67.3 -15.8 45	71.0 -24.8 47	75.0 -33.3 49	88.3 2.5 -3	87.1 -0.4 2	86.4 -1.7 13	85.7 -3.0 24	84.9 -4.3 35	84.2 -5.5 46	83.4 -6.8 57	82.7 -8.1 67	81.9 -9.4 78	24.1 0.4 1	24.1 0.4 1	24.1 0.4 1	24.1 0.4 1
12	43.7 33.9 15	49.6 24.5 16	54.6 15.4 22	59.3 6.9 27	65.4 -4.0 34	68.2 -14.2 35	72.1 -22.9 37	76.3 -31.2 39	79.8 5.6 -9	78.6 2.6 -4	77.4 -0.3 2	76.6 -1.6 13	75.9 -2.9 24	75.2 -4.1 35	74.4 -5.4 45	73.7 -6.7 56	72.9 -8.0 67	29.3 0.4 1	29.3 0.4 1	29.3 0.4 1	29.3 0.4 1
13	43.8 34.9 9	49.7 25.6 10	55.6 16.3 11	60.5 7.5 17	66.2 -2.7 23	69.3 -12.5 24	73.4 -20.9 27	77.7 -29.0 29	71.2 8.6 -15	70.0 5.7 -9	68.8 2.8 -4	67.6 -0.2 2	66.9 -1.4 13	66.2 -2.7 23	65.4 -4.0 34	64.7 -5.3 45	63.9 -6.6 56	34.5 0.3 1	34.5 0.3 1	34.5 0.3 1	34.5 0.3 1
14	43.9 36.0 3	49.8 26.7 4	55.7 17.4 5	61.6 8.0 6	66.9 -1.4 13	70.5 -10.5 14	74.8 -18.7 17	79.1 -26.8 20	62.6 11.7 -20	61.5 8.8 -15	60.3 5.8 -9	59.1 2.9 -4	57.9 0.0 2	57.1 -1.3 12	56.4 -2.6 23	55.7 -3.9 34	54.9 -5.1 45	39.7 0.2 1	39.7 0.2 1	39.7 0.2 1	39.7 0.2 1
15	44.0 37.1 -4	49.9 27.8 -2	55.8 18.5 -1	61.7 9.2 0	67.6 -0.2 2	71.9 -8.4 4	76.1 -16.6 7	80.3 -24.9 10	54.1 14.8 -26	52.9 11.8 -21	51.7 8.9 -15	50.5 6.0 -10	49.3 3.0 -4	48.1 0.1 1	47.4 -1.2 12	46.6 -2.5 23	45.9 -3.7 34	44.9 0.1 1	44.9 0.1 1	44.9 0.1 1	44.9 0.1 1
16	44.0 37.2 -11	50.0 28.3 -9	56.2 19.4 -8	62.4 10.9 -6	68.8 2.8 -4	72.7 -3.9 -4	77.1 -11.6 -2	81.4 -19.3 -1	45.5 17.9 -32	44.3 14.9 -26	43.1 12.0 -21	42.0 9.0 -15	40.8 6.1 -10	39.6 3.2 -4	38.4 0.2 1	37.6 -1.0 12	36.9 -2.3 23	50.1 0.1 1	50.1 0.1 1	50.1 0.1 1	50.1 0.1 1
17	44.7 39.0 -17	50.9 30.4 -16	57.1 21.9 -14	63.5 13.7 -12	70.0 5.7 -9	73.8 -0.6 -9	77.8 -7.6 -10	82.1 -15.4 -8	37.0 20.9 -38	35.8 18.0 -32	34.6 15.1 -27	33.4 12.1 -21	32.2 9.2 -16	31.0 6.2 -10	29.8 3.3 -5	28.6 0.4 1	27.9 -0.9 12	55.3 0.0 1	55.3 0.0 1	55.3 0.0 1	55.3 0.0 1
18	45.6 41.4 -23	51.9 32.9 -21	58.3 24.7 -19	64.7 16.6 -17	71.2 8.6 -15	75.1 2.1 -15	78.6 -3.9 -15	82.9 -11.2 -15	28.4 24.0 -43	27.2 21.1 -38	26.0 18.1 -32	24.8 15.2 -27	23.6 12.3 -21	22.5 9.3 -16	21.3 6.4 -10	20.1 3.4 -5	18.9 0.5 1	60.5 -0.1 2	60.5 -0.1 2	60.5 -0.1 2	60.5 -0.1 2
19	54.1 55.5 47	59.0 46.6 53	63.7 38.2 58	68.3 29.9 63	73.1 21.3 69	78.2 12.1 75	84.0 1.6 81	90.9 -10.8 89	96.9 -0.6 2	91.4 -8.7 5	85.8 -16.8 7	80.3 -24.9 10	74.8 -33.0 12	69.3 -41.1 15	63.7 -49.2 17	58.2 -57.3 20	52.7 -65.4 22	65.7 -0.1 2	65.7 -0.1 2	65.7 -0.1 2	65.7 -0.1 2
20	54.8 56.9 36	60.1 47.3 42	65.0 38.6 48	69.6 30.3 53	74.3 21.9 58	79.2 12.9 64	84.9 2.7 71	91.7 -9.5 78	91.0 8.8 1	87.1 -0.4 2	81.6 -8.5 5	76.1 -16.6 7	70.6 -24.7 10	65.0 -32.9 12	59.5 -41.0 14	54.0 -49.1 17	48.5 -57.2 19	70.9 -0.2 2	70.9 -0.2 2	70.9 -0.2 2	70.9 -0.2 2
21	54.9 58.1 29	60.8 48.7 31	66.1 39.2 37	70.8 30.6 43	75.5 22.3 48	80.3 13.6 54	85.7 3.8 60	92.4 -8.2 68	85.1 18.1 0	81.2 8.9 1	77.4 -0.3 2	71.9 -8.4 4	66.3 -16.5 7	60.8 -24.6 9	55.3 -32.7 12	49.8 -40.8 14	44.2 -48.9 17	76.1 -0.3 2	76.1 -0.3 2	76.1 -0.3 2	76.1 -0.3 2
22	55.0 59.2 23	60.9 49.9 25	66.8 40.5 26	72.0 31.1 32	76.7 22.6 38	81.4 14.2 43	86.6 4.8 49	93.2 -7.0 57	79.2 27.4 -2	75.3 18.2 -1	71.5 9.0 1	67.6 -0.2 2	62.1 -8.3 4	56.6 -16.4 7	51.1 -24.5 9	45.5 -32.6 12	40.0 -40.7 14	81.3 -0.4 2	81.3 -0.4 2	81.3 -0.4 2	81.3 -0.4 2
23	55.1 60.3 17	61.0 51.0 19	66.9 41.7 20	72.8 32.3 21	78.0 23.0 27	82.6 14.7 33	87.6 5.8 38	93.9 -5.7 46	73.2 36.7 -3	69.4 27.5 -2	65.6 18.3 -1	61.7 9.2 0	57.9 0.0 2	52.4 -8.1 4	46.8 -16.2 6	41.3 -24.3 9	35.8 -32.4 11	86.5 -0.4 2	86.5 -0.4 2	86.5 -0.4 2	86.5 -0.4 2
24	55.2 61.4 11	61.1 52.1 13	67.0 42.8 14	72.9 33.5 15	78.8 24.1 17	83.9 15.0 22	88.6 6.5 28	94.7 -4.4 35	67.3 46.0 -4	63.5 36.9 -3	59.7 27.7 -2	55.8 18.5 -1	52.0 9.3 0	48.1 0.1 1	42.6 -8.0 4	37.1 -16.1 6	31.6 -24.2 9	91.7 -0.5 2	91.7 -0.5 2	91.7 -0.5 2	91.7 -0.5 2
25	55.3 62.5 5	61.2 53.1 7	67.1 43.8 8	73.0 34.5 9	79.0 25.2 10	84.9 15.9 12	89.8 7.1 18	95.4 -3.1 24	61.4 55.4 -6	57.6 46.2 -4	53.7 37.0 -3	49.9 27.8 -2	46.1 18.6 -1	42.2 9.4 0	38.4 0.2 1	32.9 -7.9 4	27.3 -16.0 6	96.9 -0.6 2	96.9 -0.6 2	96.9 -0.6 2	96.9 -0.6 2
26	55.4 63.5 -1	61.3 54.2 1	67.2 44.9 2	73.1 35.6 3	79.1 26.3 4	85.0 17.0 6	90.9 7.6 7	96.2 -1.8 13	55.5 64.7 -7	51.7 55.5 -6	47.8 46.3 -5	44.0 37.1 -4	40.1 27.9 -2	36.3 18.7 -1	32.5 9.6 0	28.6 0.4 1	23.1 -7.7 3	18.9 0.5 1	48.7 65.2 41	90.9 -10.8 89	52.7 -65.4 22
27	55.5 64.7 -7	61.4 55.4 -6	67.3 46.0 -4	73.2 36.7 -3	79.2 27.4 -2	85.1 18.1 0	91.0 8.8 1	96.9 -0.6 2	49.6 74.0 -8	45.7 64.8 -7	41.9 55.6 -6	38.1 46.4 -5	34.2 37.3 -4	30.4 28.1 -3	26.6 18.9 -1	22.7 9.7 0	18.9 0.5 1	96.9 -0.6 2	59.6 -29.0 -45	28.4 24.0 -43	49.6 74.0 -8

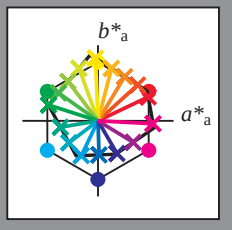
See for similar files: http://www.ps.bam.de/Ee12/; www.ps.bam.de/Ee.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1, ColSpx=1

BAM registration: 20081001-Ee12/10L/L12E00NP.PS/ .PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

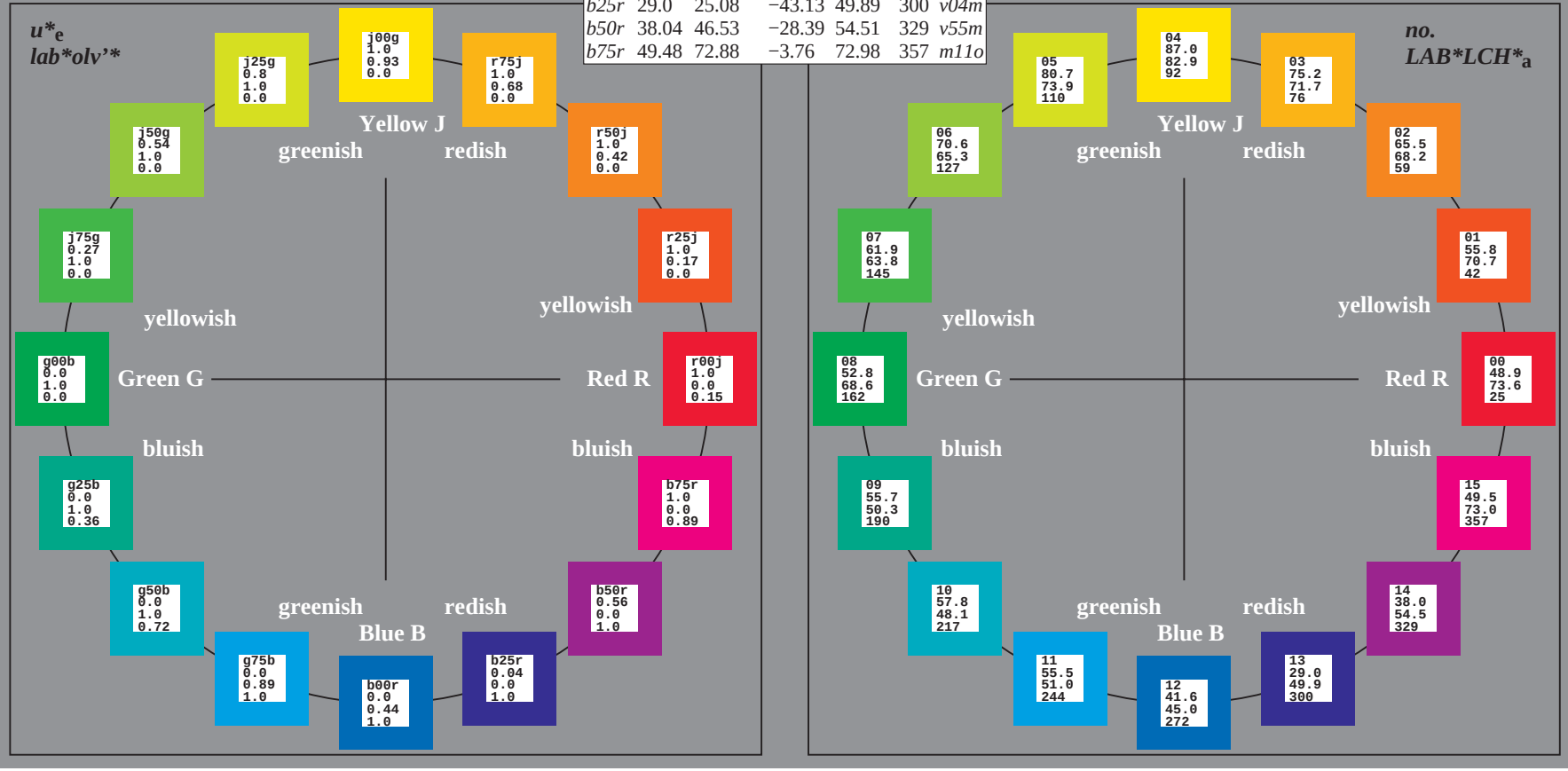
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

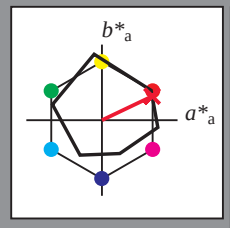
ORS19_96a; CIELAB data

Name	*L*=L**	*a**	*b**	*C*ab*	*h*ab*
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.071**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

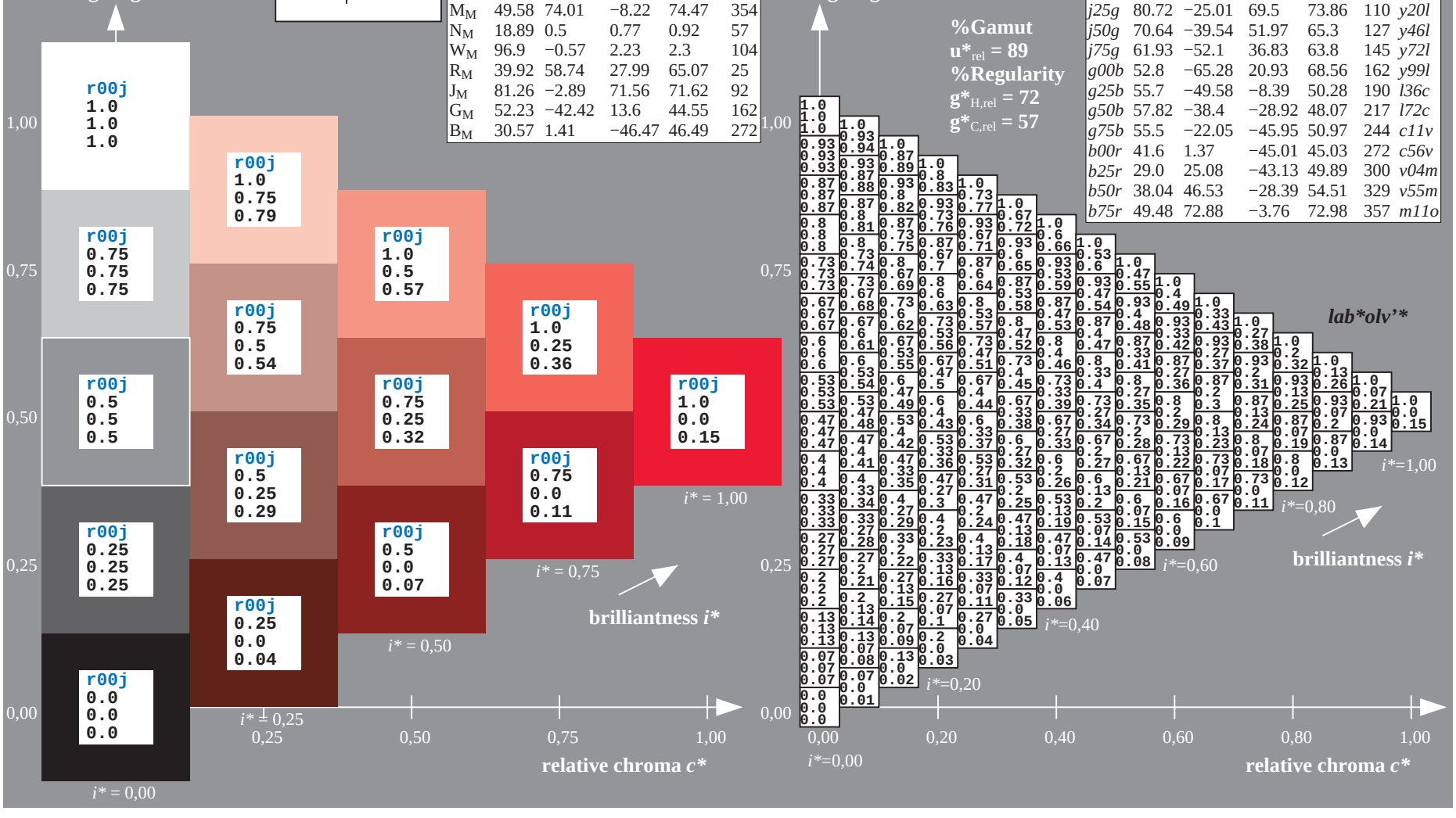
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 49 66 32**
LAB*LCH*$_{Ma}$**: 49 74 25**
lab*rgb*$_{Ma}$**: 1.0 0.0 0.0**
lab*olv*$_{Ma}$**: 1.0 0.0 0.15**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r00j*
lab*olv'*

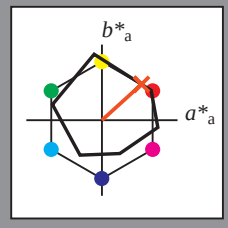
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

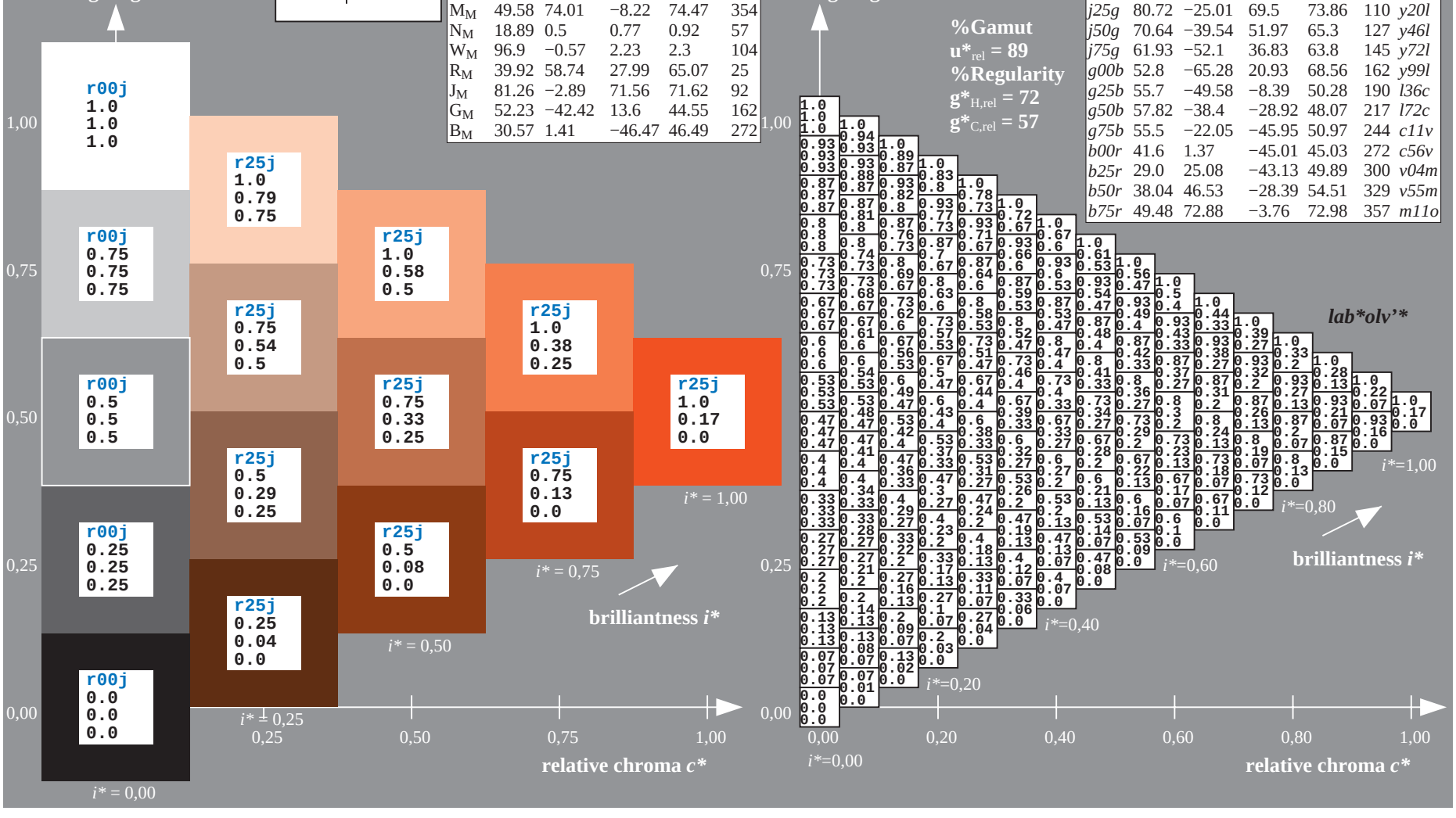
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r25j*
*lab*olv'**

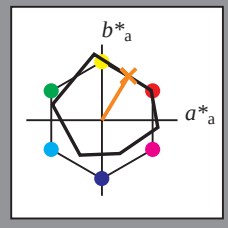
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

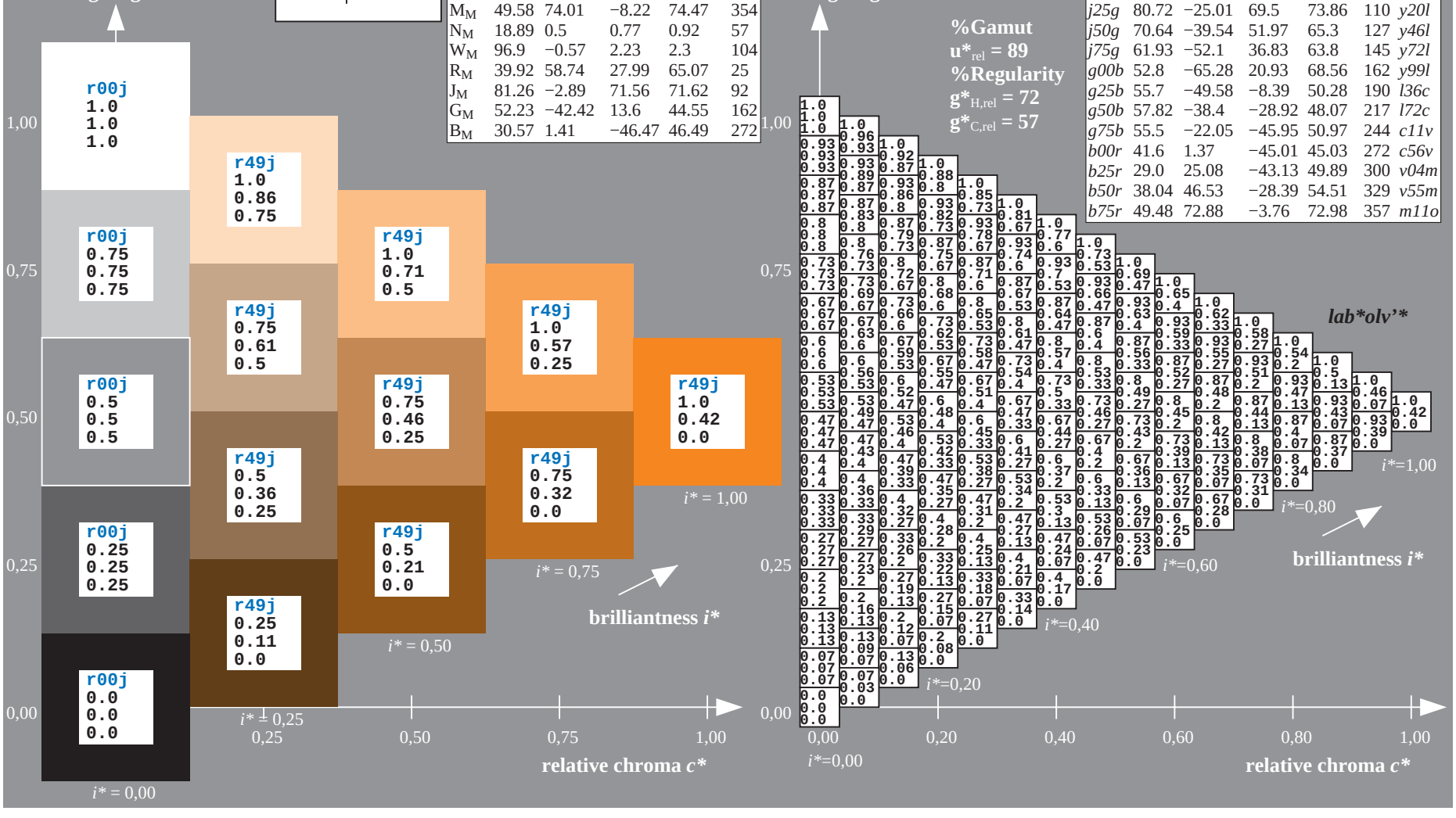
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e = r50j
lab*olv'*

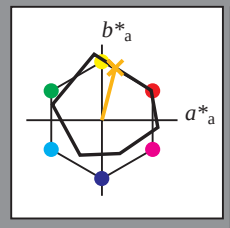
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

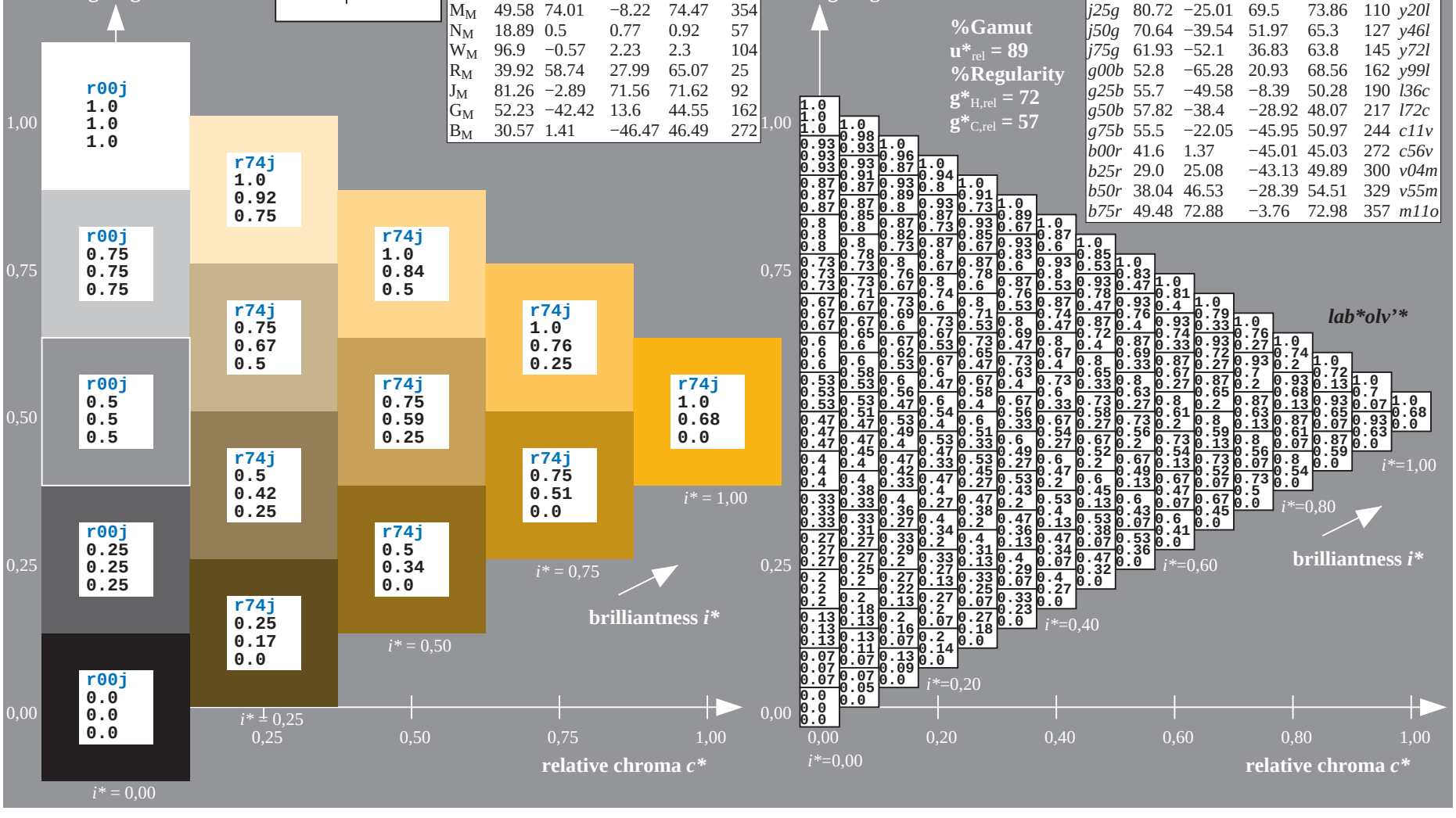
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.68 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r75j*
*lab*olv'**

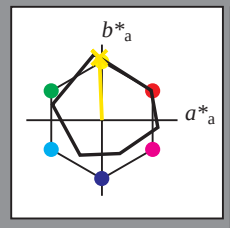
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

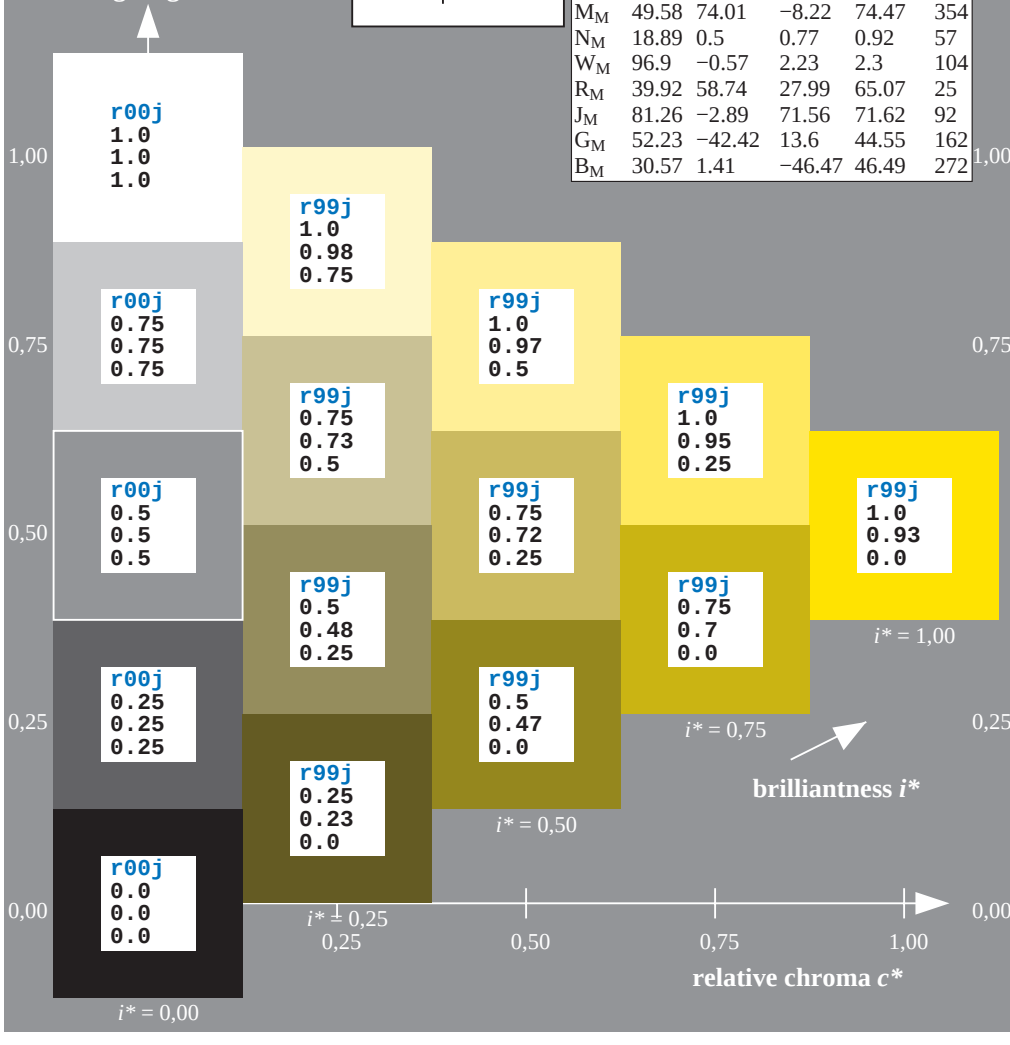
	*u*e*	*L*=L**	*a**	*b**	*C*ab*	*h*ab*
O_M	48.75	65.16	40.76	76.86	32	
Y_M	90.92	−10.78	89.36	90.01	97	
L_M	52.69	−65.4	22.15	69.05	161	
C_M	59.61	−29.04	−44.69	53.3	237	
V_M	28.39	24.0	−43.18	49.4	299	
M_M	49.58	74.01	−8.22	74.47	354	
N_M	18.89	0.5	0.77	0.92	57	
W_M	96.9	−0.57	2.23	2.3	104	
R_M	39.92	58.74	27.99	65.07	25	
J_M	81.26	−2.89	71.56	71.62	92	
G_M	52.23	−42.42	13.6	44.55	162	
B_M	30.57	1.41	−46.47	46.49	272	

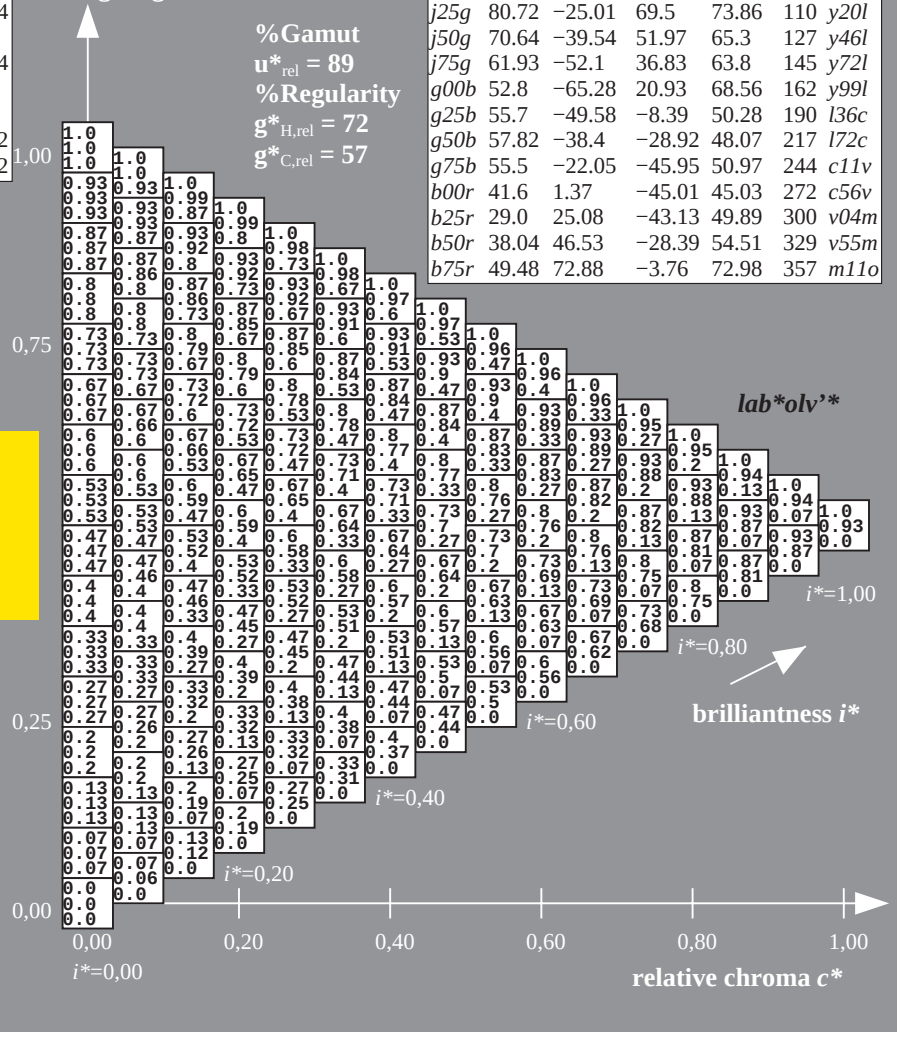
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

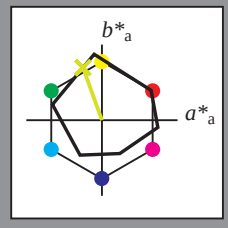
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.305**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

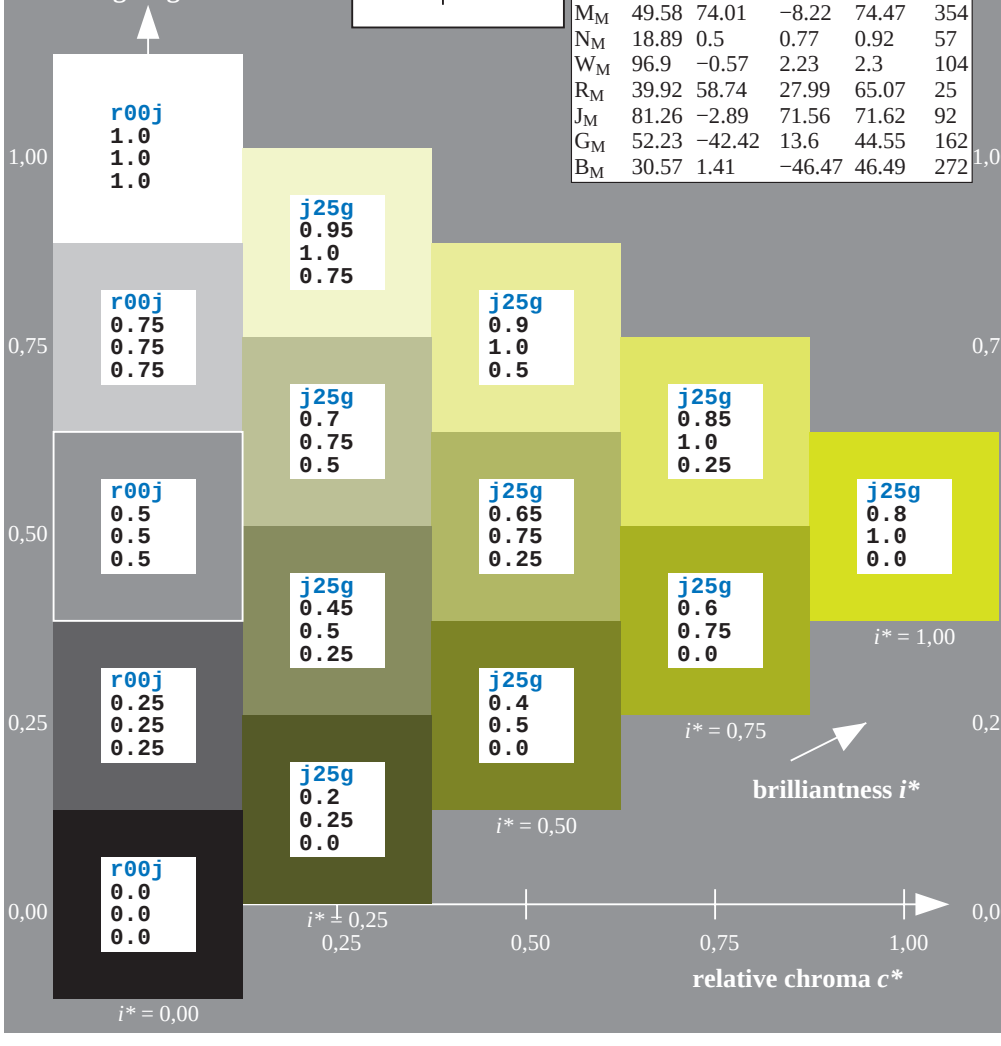
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

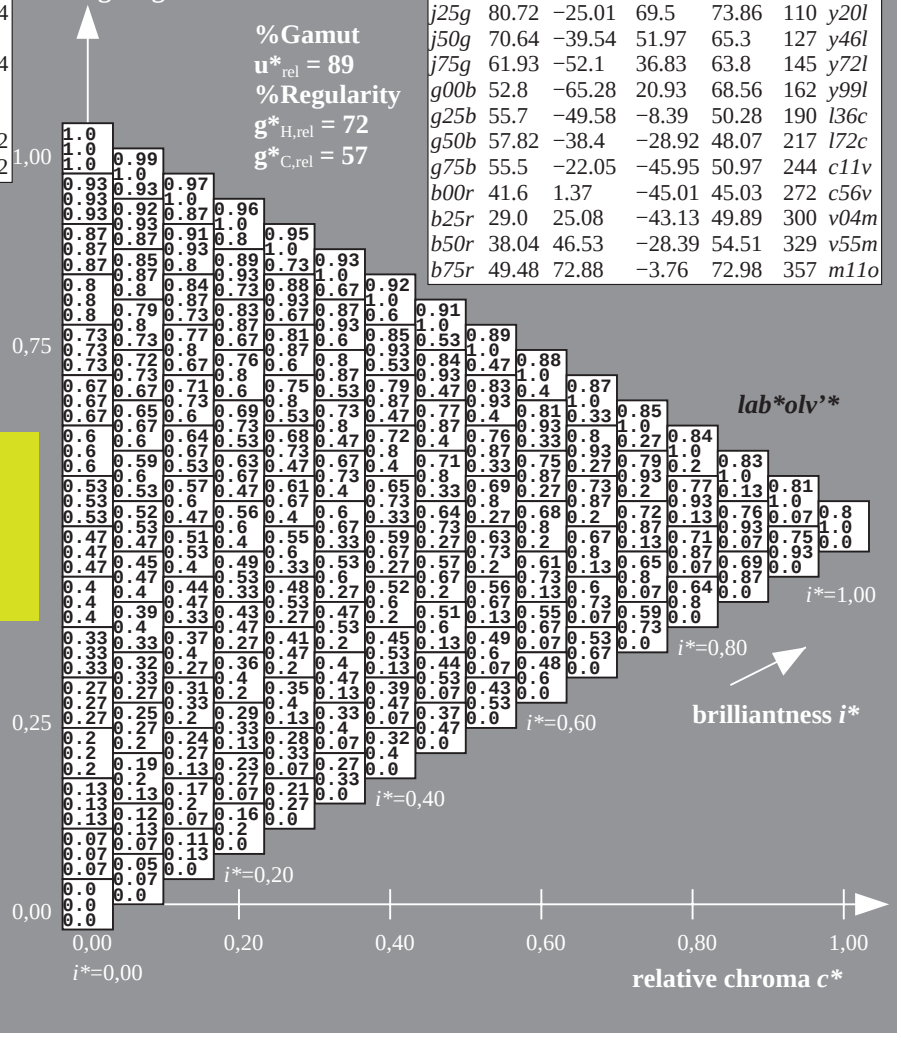
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

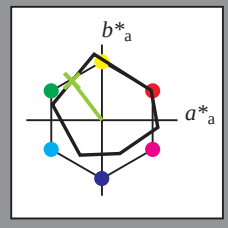
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.354**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

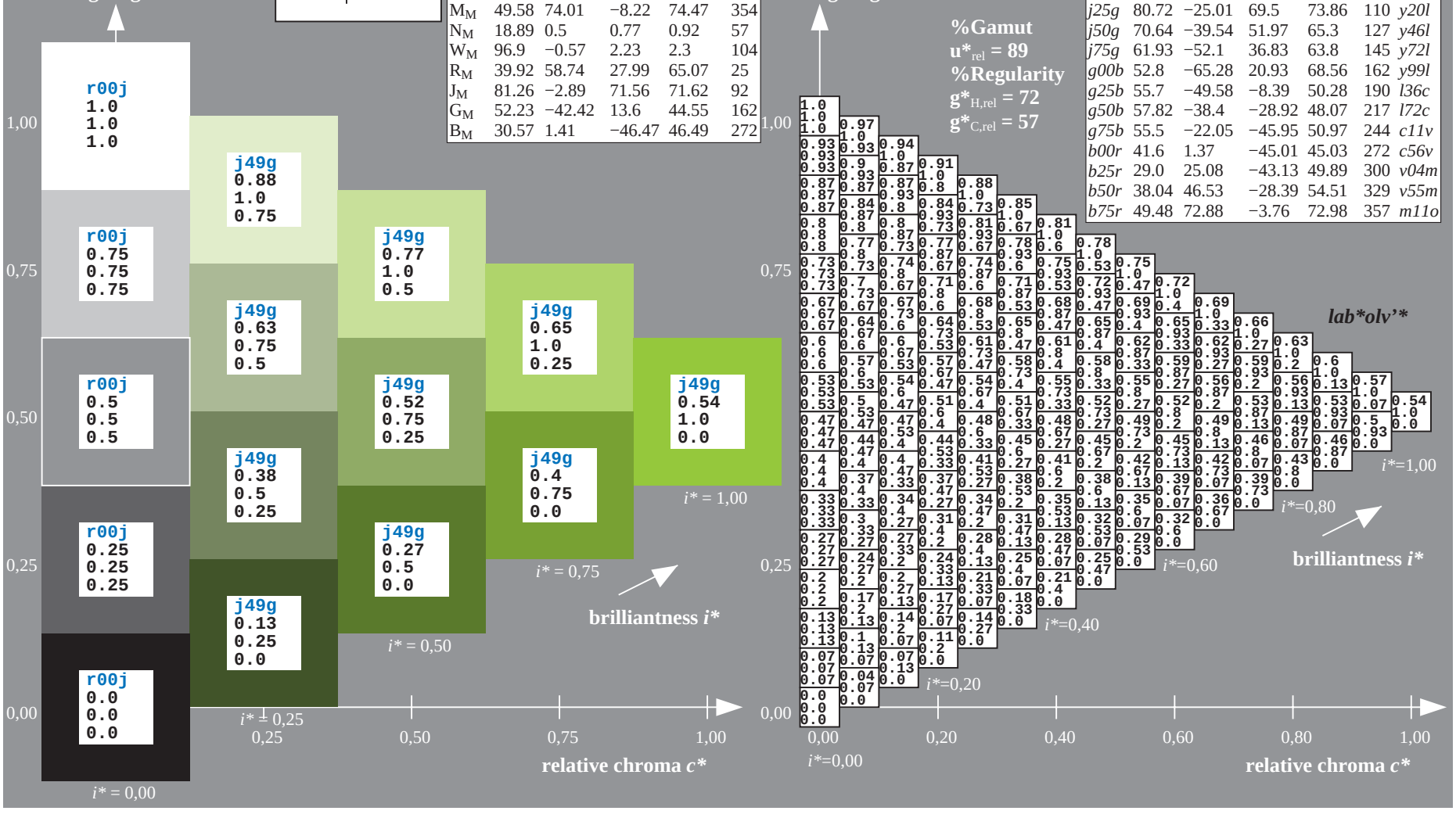
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 71 −40 52
*LAB*LCH**$_{Ma}$: 71 65 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.54 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

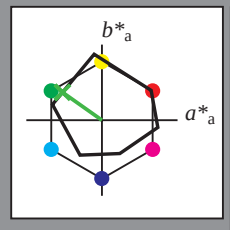
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.402**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

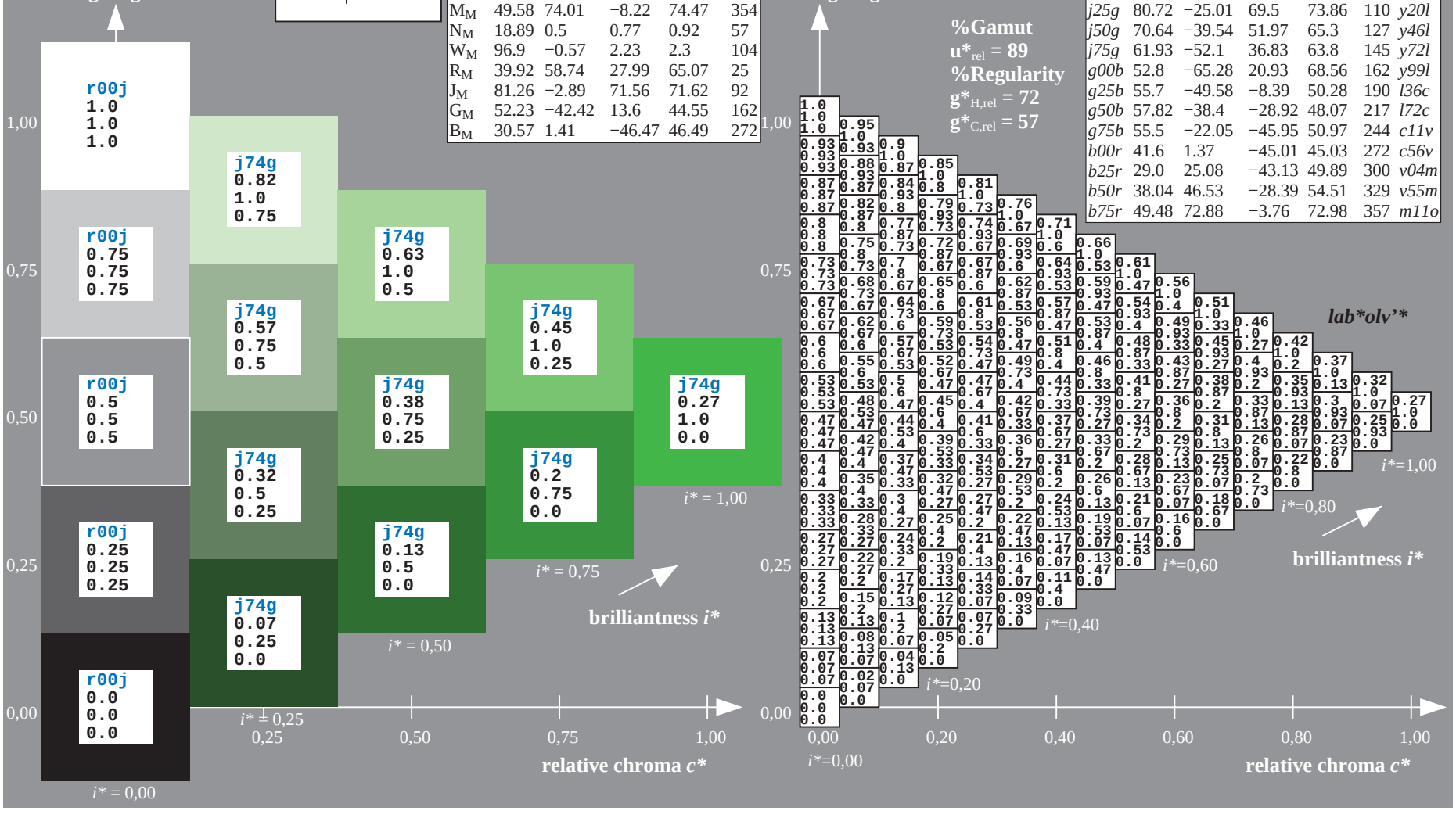
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

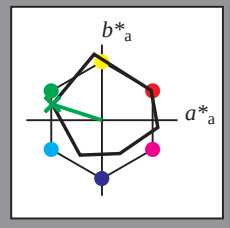
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.451**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *g00b* u^*_d = *y99l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

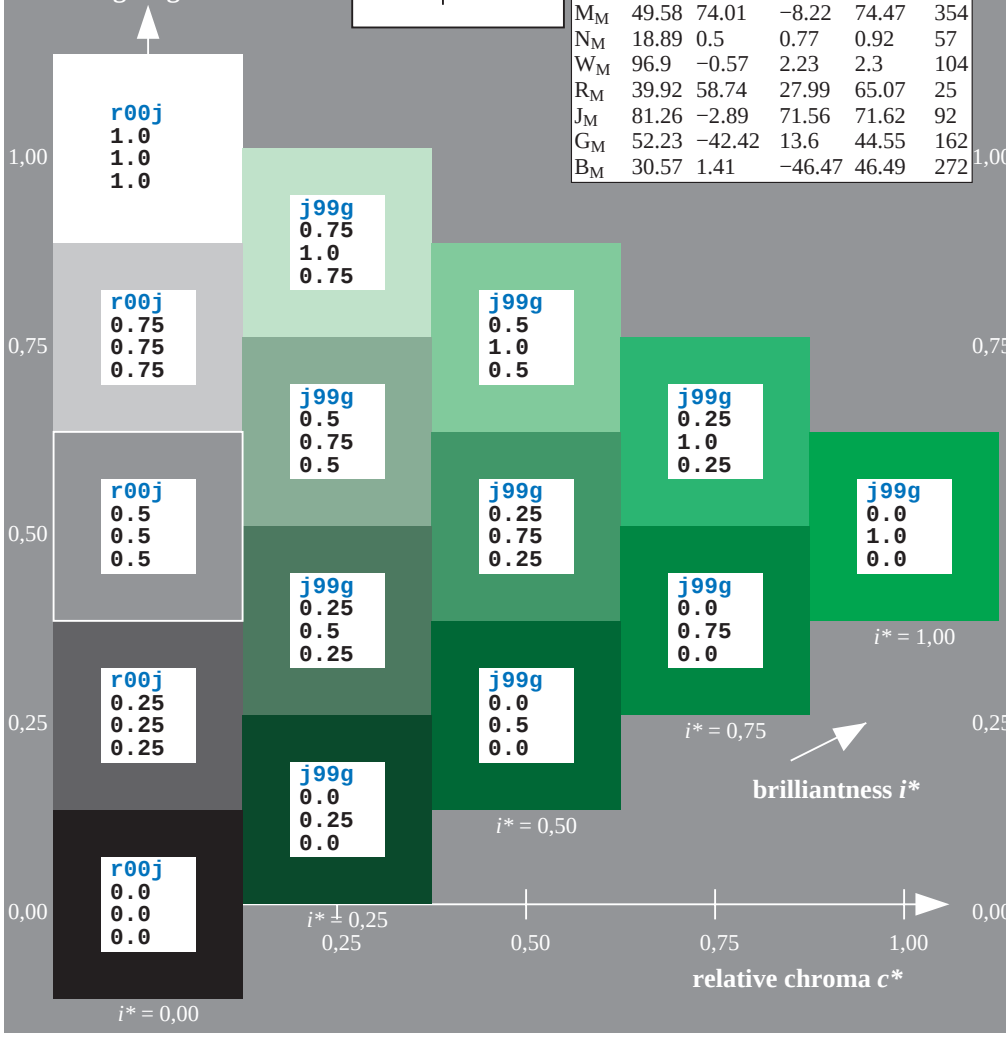
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

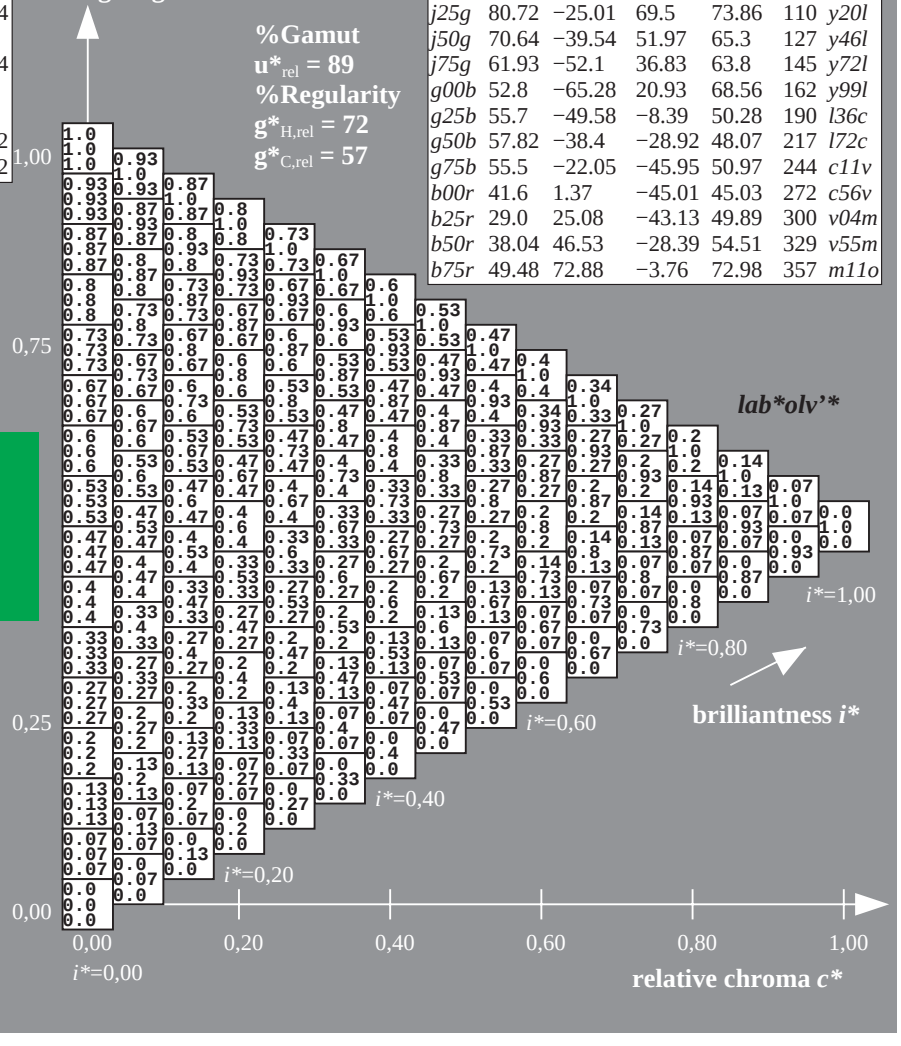
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −65 21
*LAB*LCH**$_{Ma}$: 53 69 162
*lab*rgb**$_{Ma}$: 0.0 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

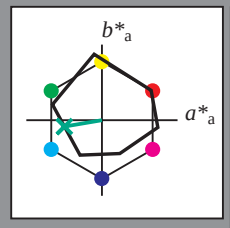
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

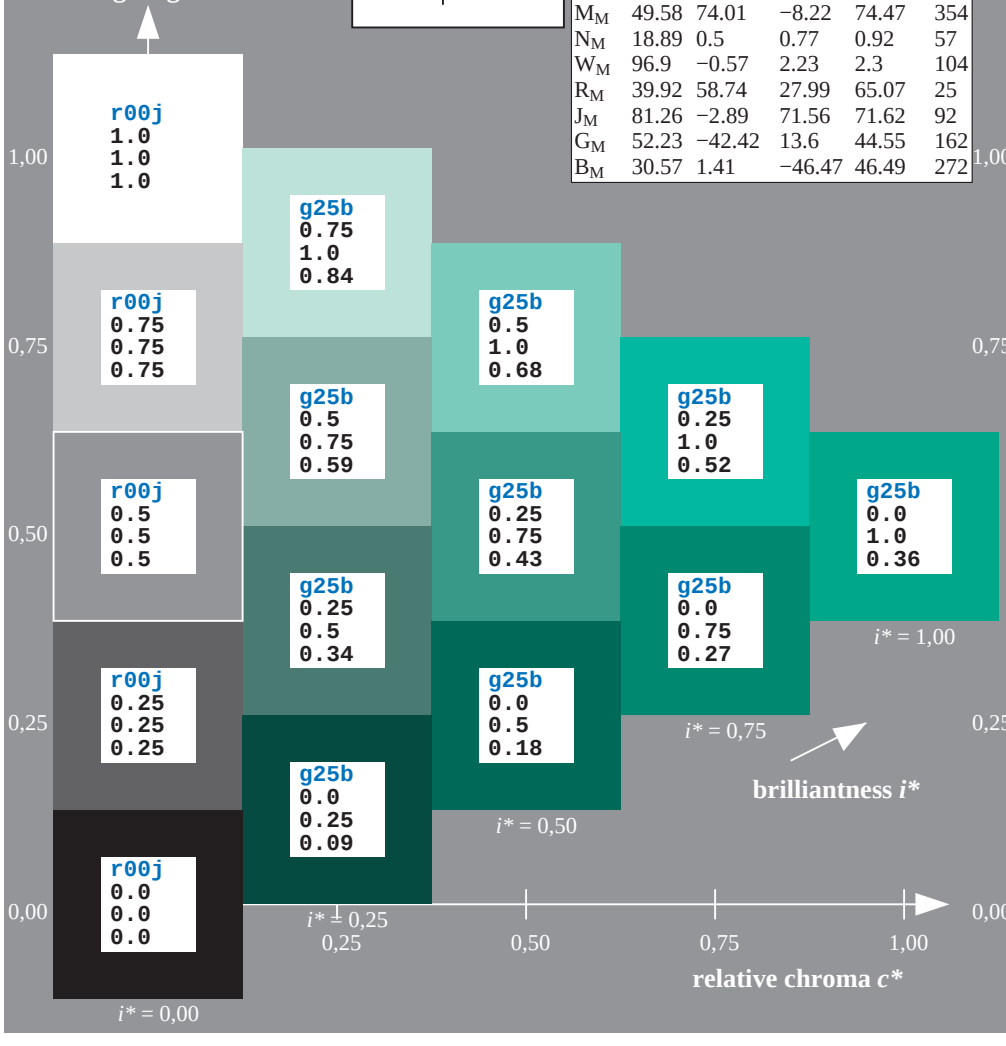
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

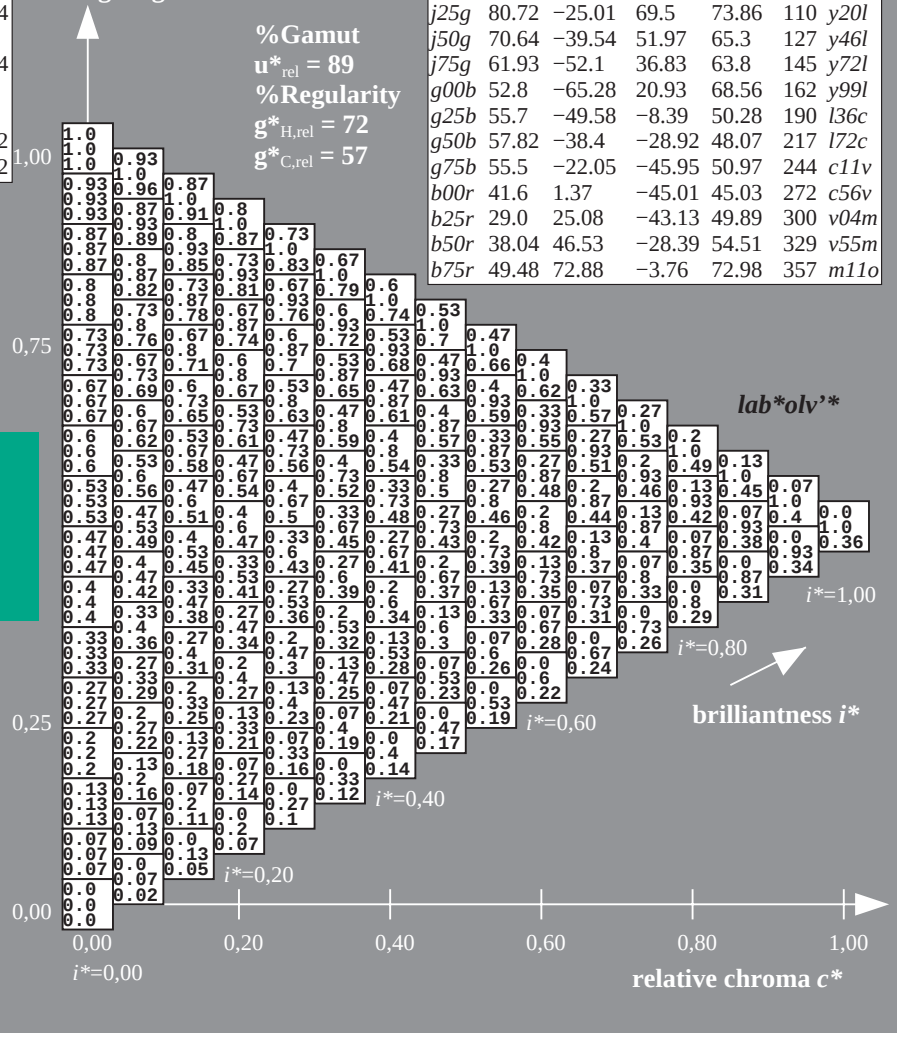
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 −50 −8
*LAB*LCH**$_{Ma}$: 56 50 189
*lab*rgb**$_{Ma}$: 0.0 1.0 0.5
*lab*olv**$_{Ma}$: 0.0 1.0 0.36
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

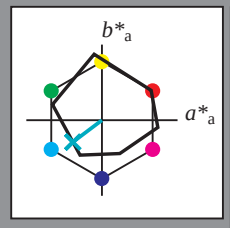
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = g50b$ $u^*_d = l72c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

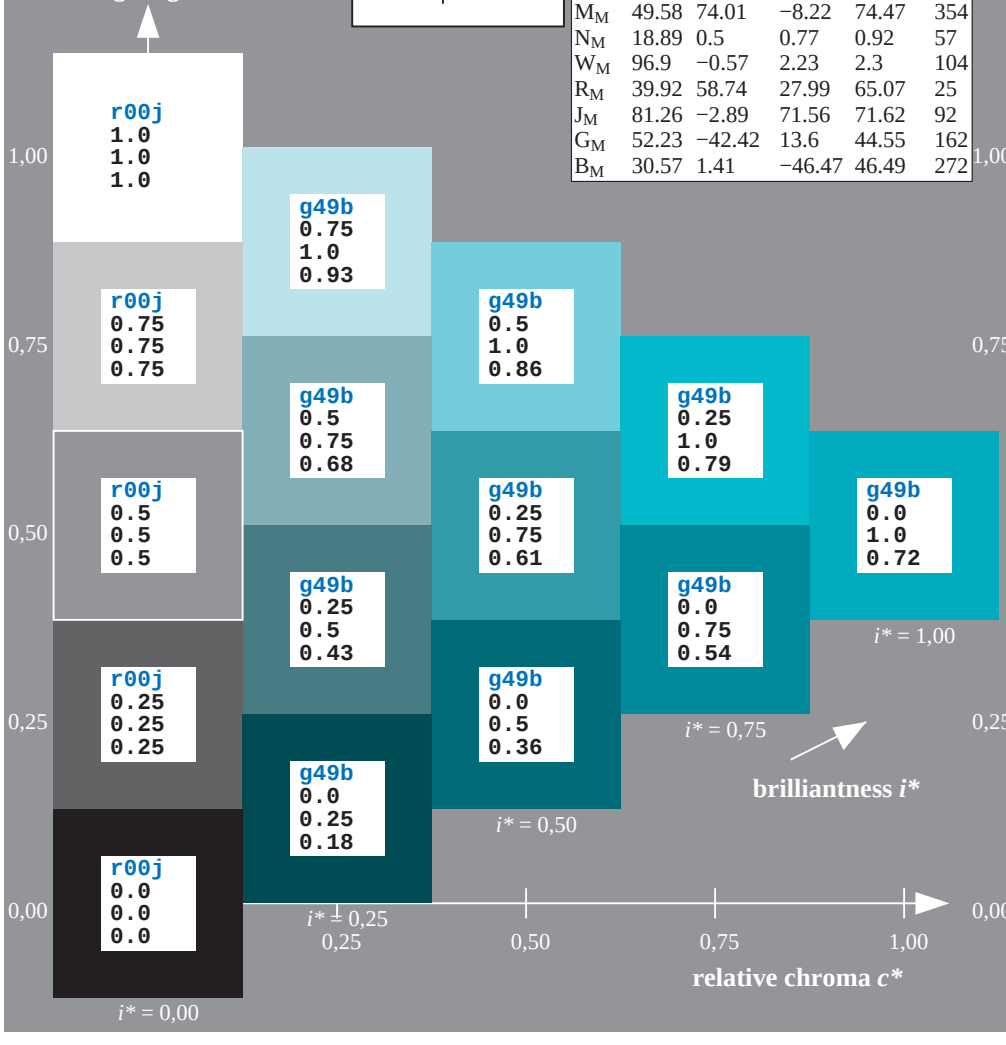
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

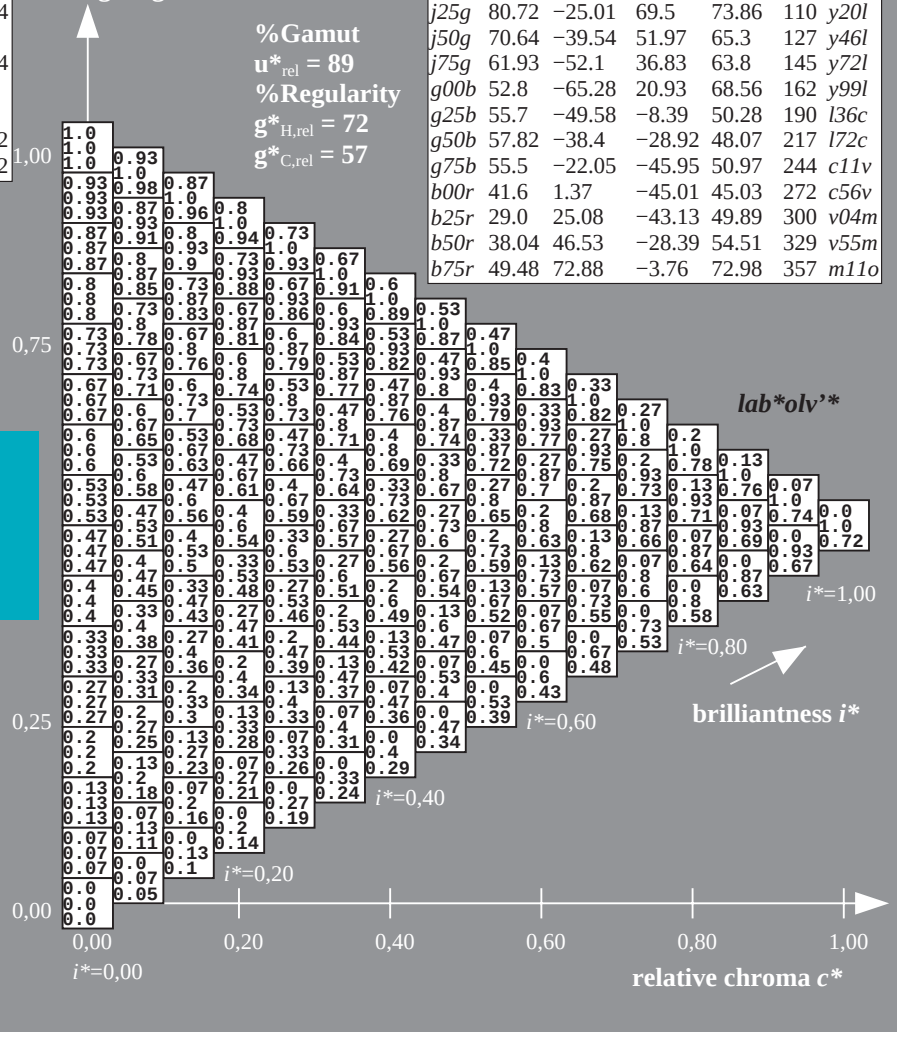
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 58 −38 −29
$LAB^*LCH^*_{Ma}$: 58 48 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.72
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

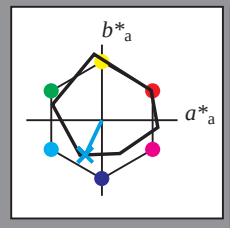
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.679**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *g75b* u^*_d = *c11v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

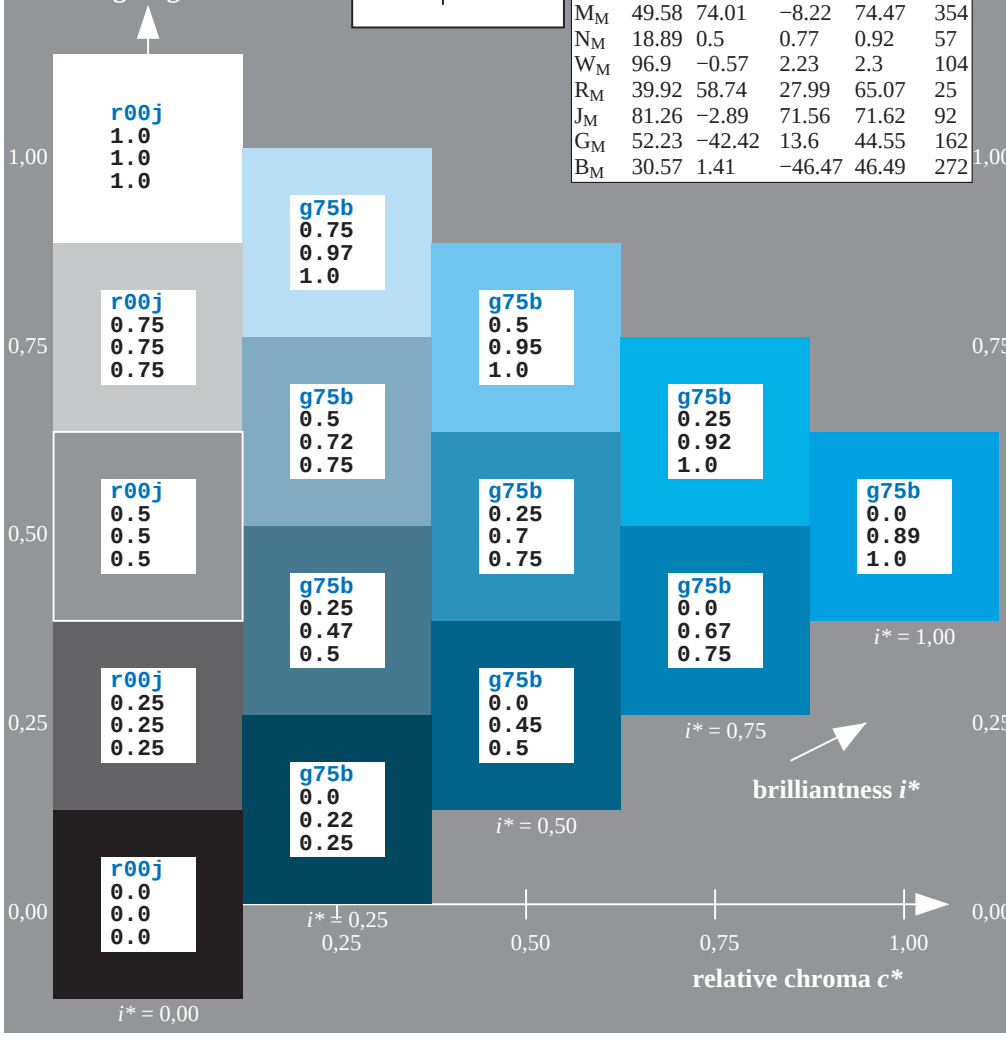
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 55 −22 −46
*LAB*LCH**$_{Ma}$: 55 51 244
*lab*rgb**$_{Ma}$: 0.0 0.5 1.0
*lab*olv**$_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

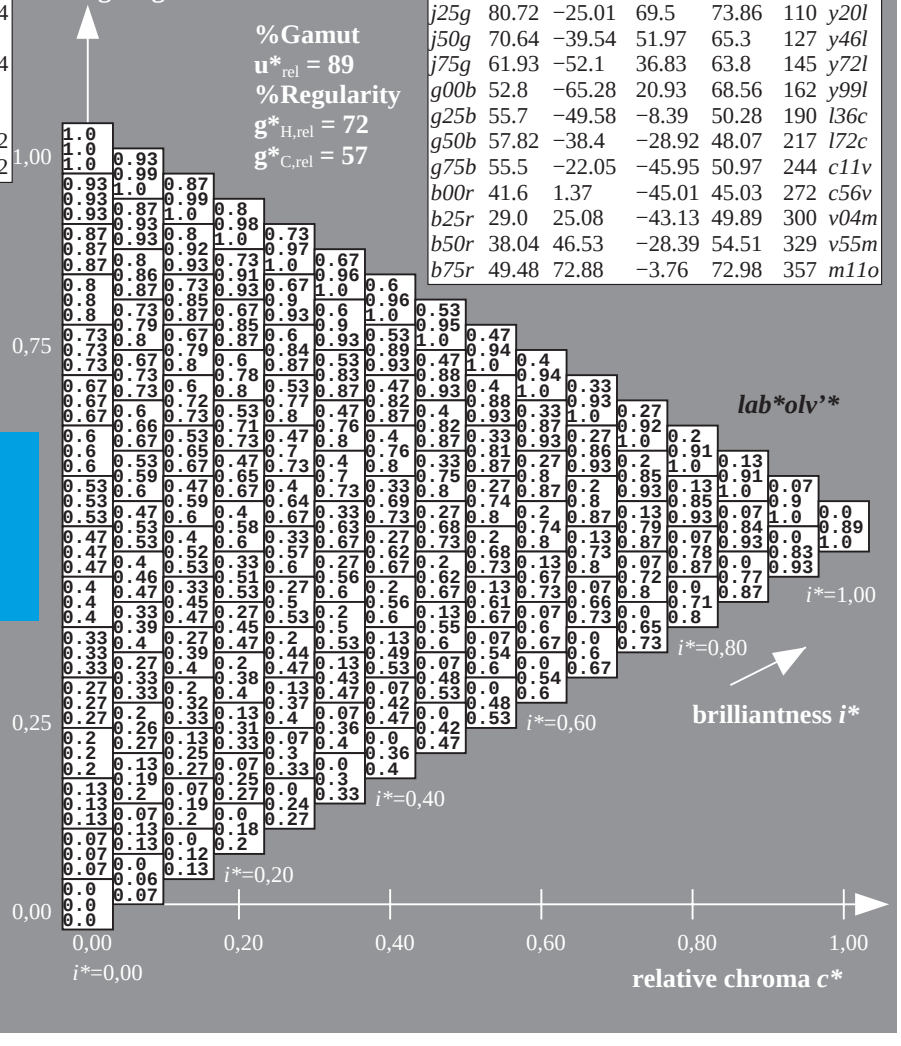
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *g75b*
*lab*olv'**

ORS19_96a; adapted (a) CIELAB data

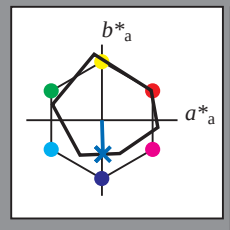
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.755**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

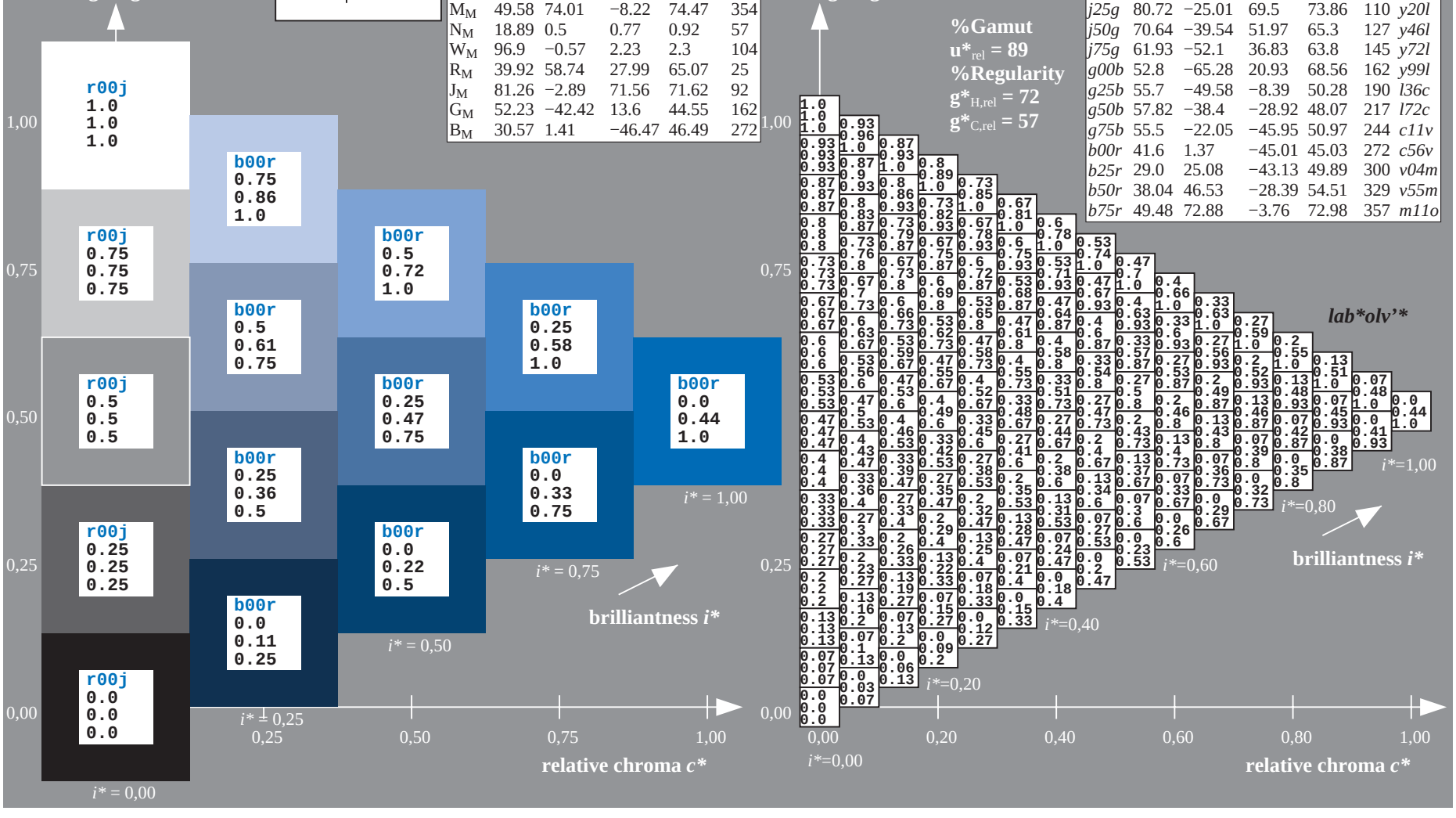
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 1 −45
*LAB*LCH**$_{Ma}$: 42 45 271
*lab*rgb**$_{Ma}$: 0.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.0 0.44 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

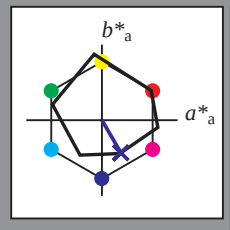
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.834**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

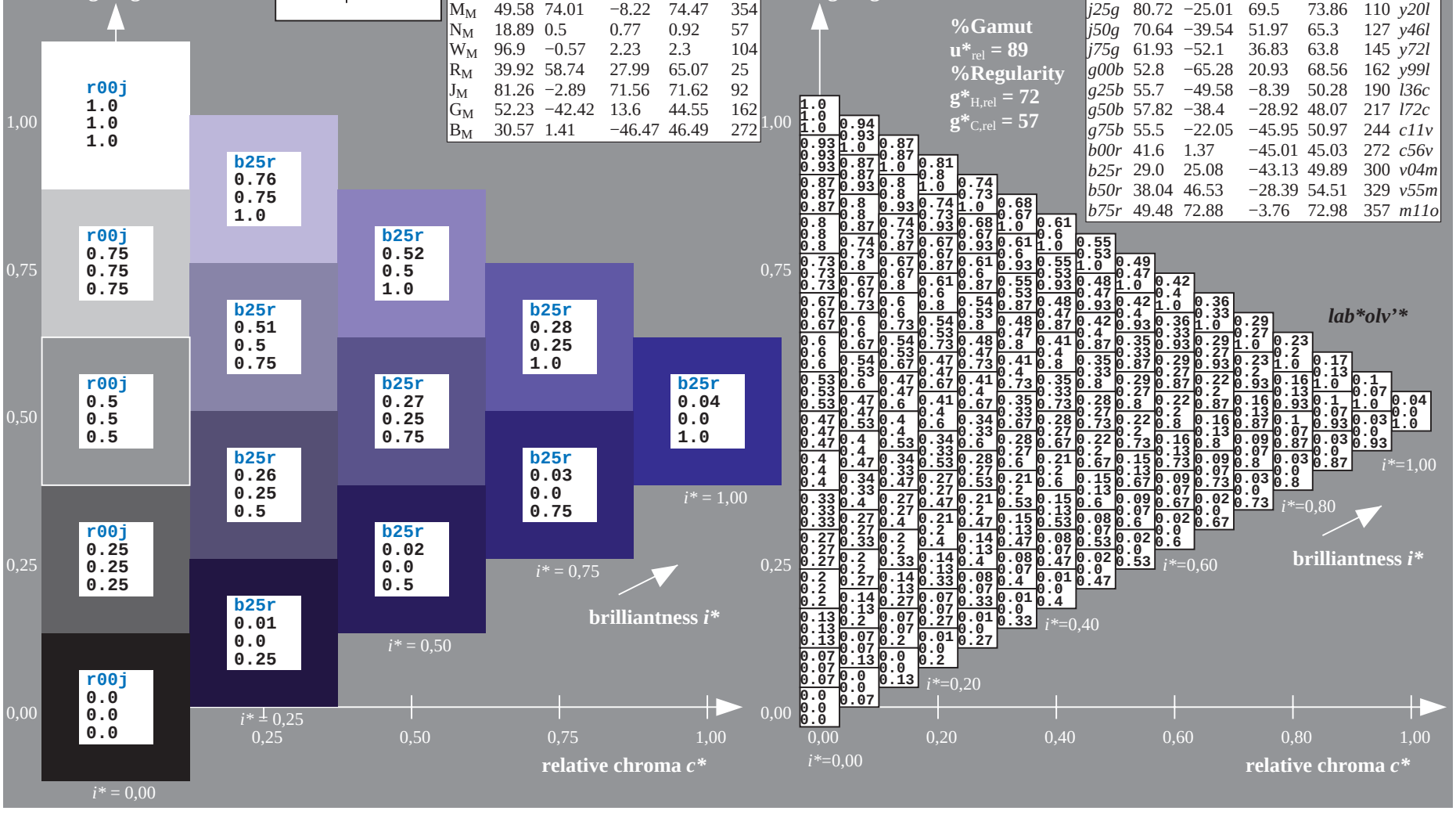
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 29 25 −43
*LAB*LCH**$_{Ma}$: 29 50 300
*lab*rgb**$_{Ma}$: 0.5 0.0 1.0
*lab*olv**$_{Ma}$: 0.04 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

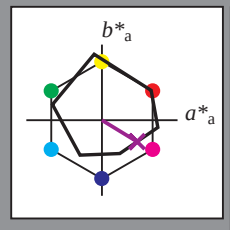
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e **=** *b50r* u^*_d **=** *v55m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

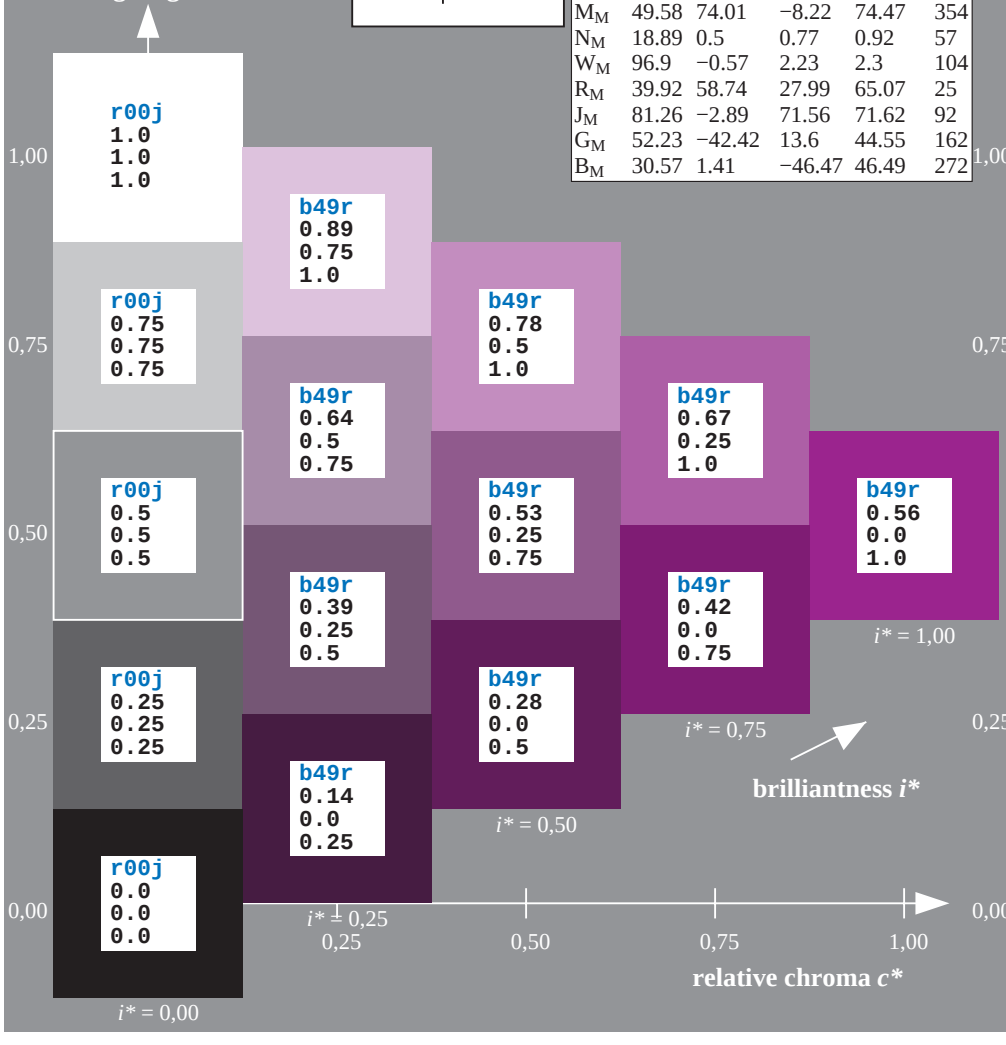
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

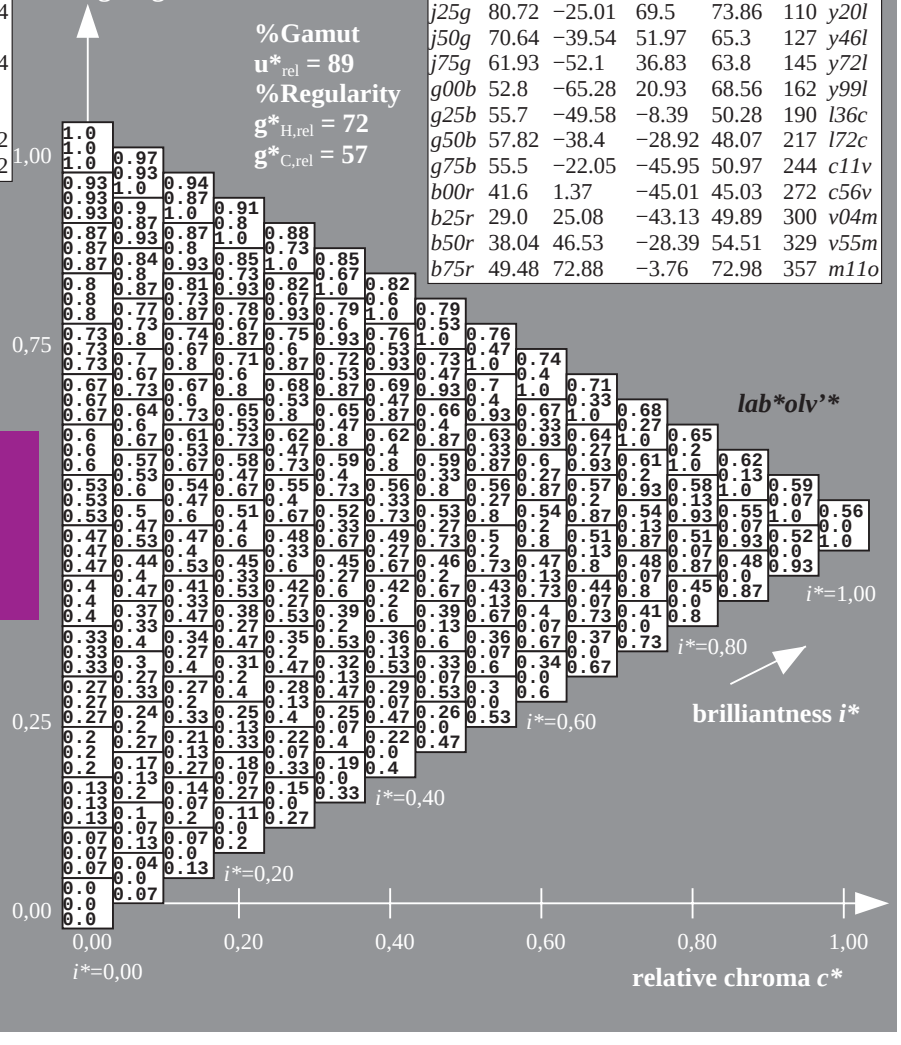
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 47 −28
$LAB^*LCH^*_{Ma}$: 38 55 328
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.56 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

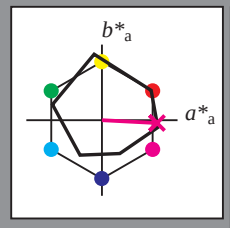
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.992$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = b75r$ $u^*_d = m11o$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

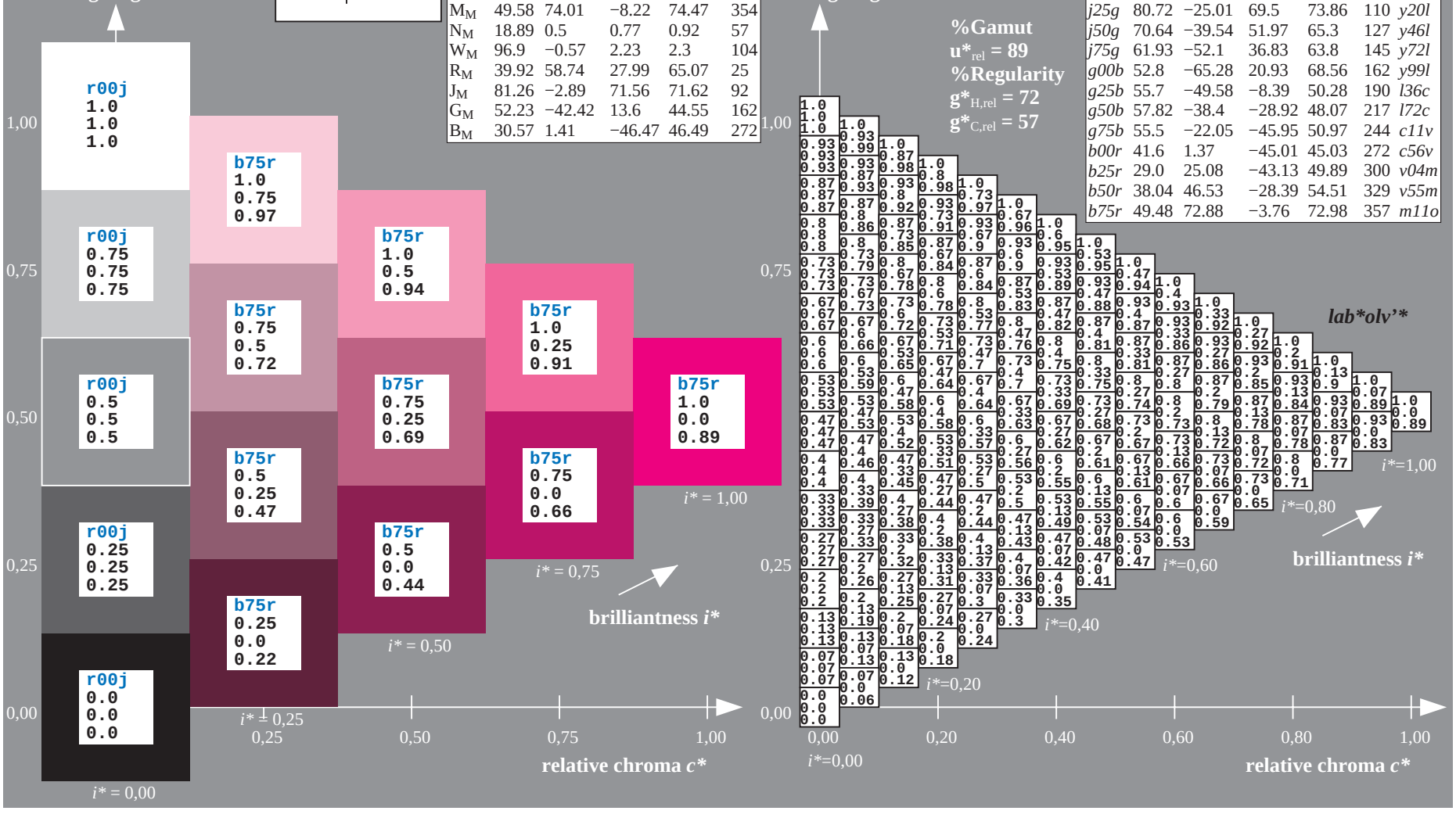
Data for maximum colour (Ma):
LAB*LAB**Ma: 49 73 −4
LAB*LCH**Ma: 49 73 357
lab*rgb**Ma: 1.0 0.0 0.5
lab*olv**Ma: 1.0 0.0 0.89
triangle lightness *t**

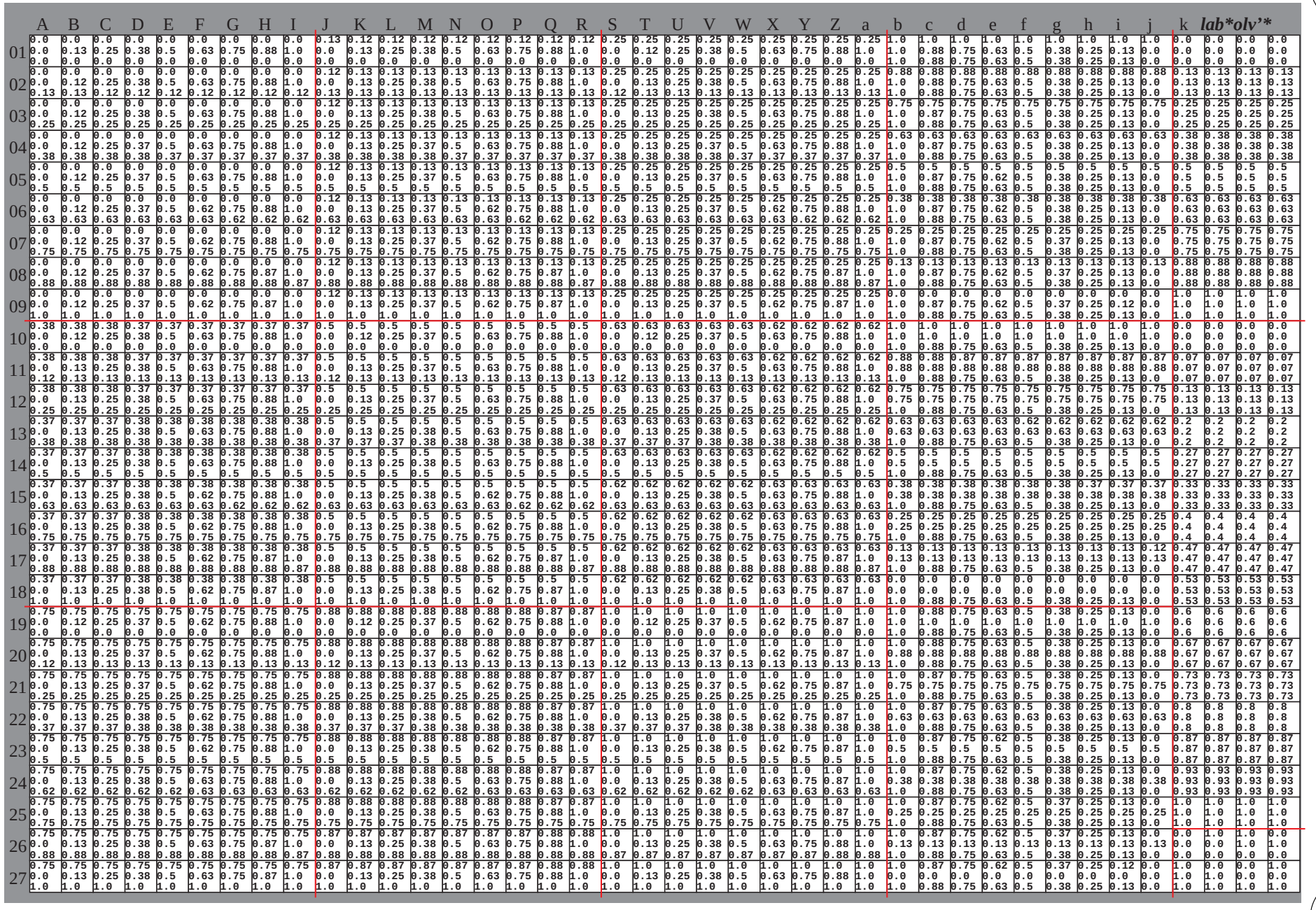
%Gamut
$u^*_{rel} = 89$
%Regularity
$g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$

$u^*_e = b75r$
$lab^*olv'^*$

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

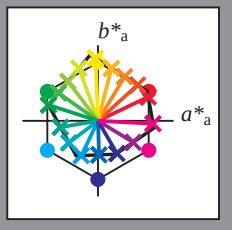




Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
***u*e* and number *no.* = 00 .. 15**
elementary hue text:
u*e* = 16 hues *r00j, r25j, ..., b75r
contrast reduction factor:
c_R = 1.0

ORS19_96a; adapted (a) CIELAB data

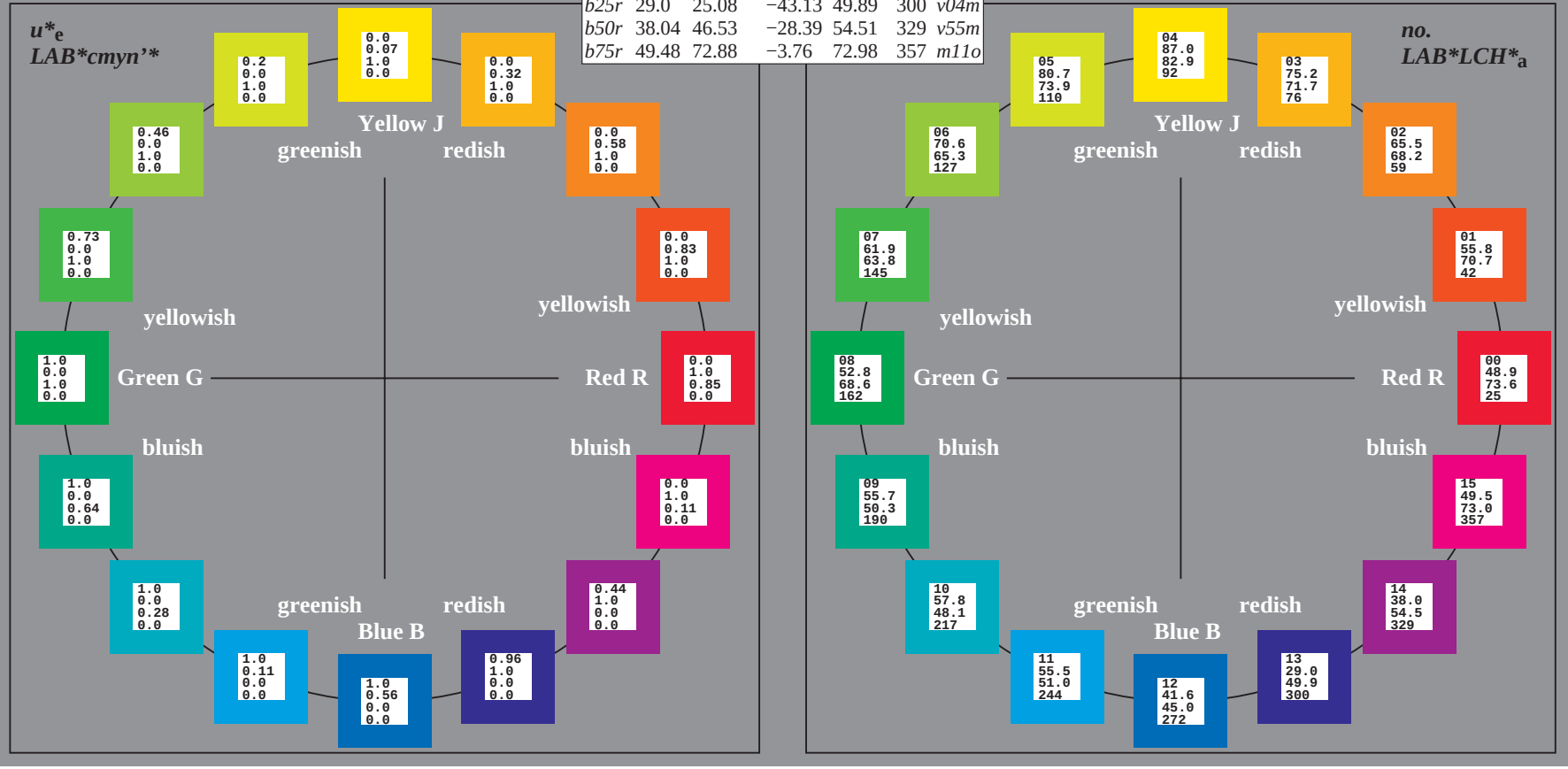
*u*e*	*L*=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*	*u*d*
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

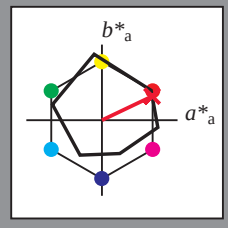
ORS19_96a; CIELAB data

Name	*L*=L**	*a**	*b**	*C*ab*	*h*ab*
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

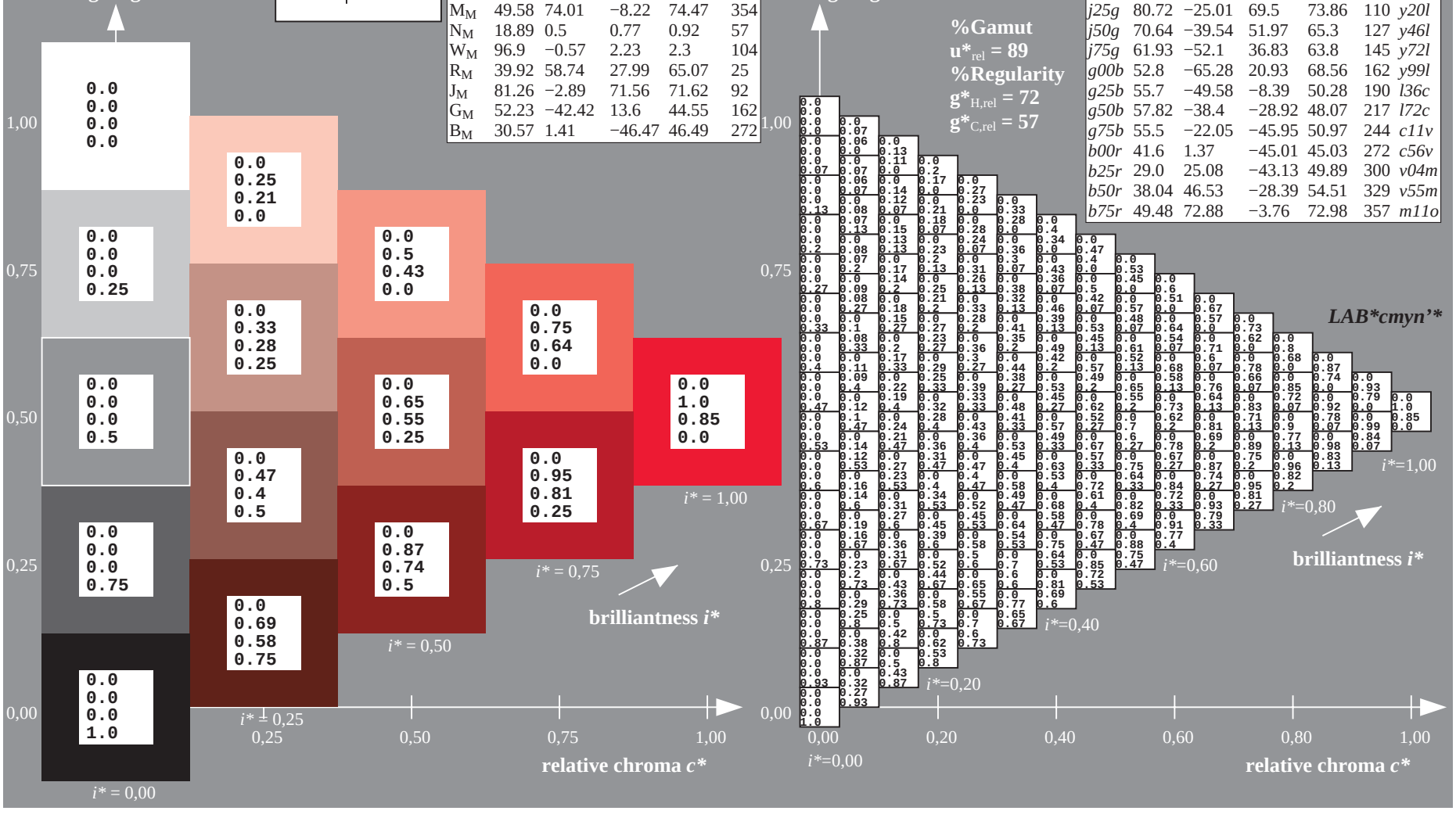
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r00j*
*LAB*cmyn'**

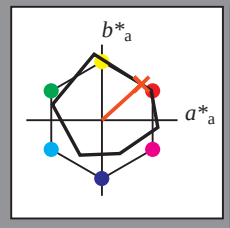
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.117**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	*L*=L**	*a**	*b**	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

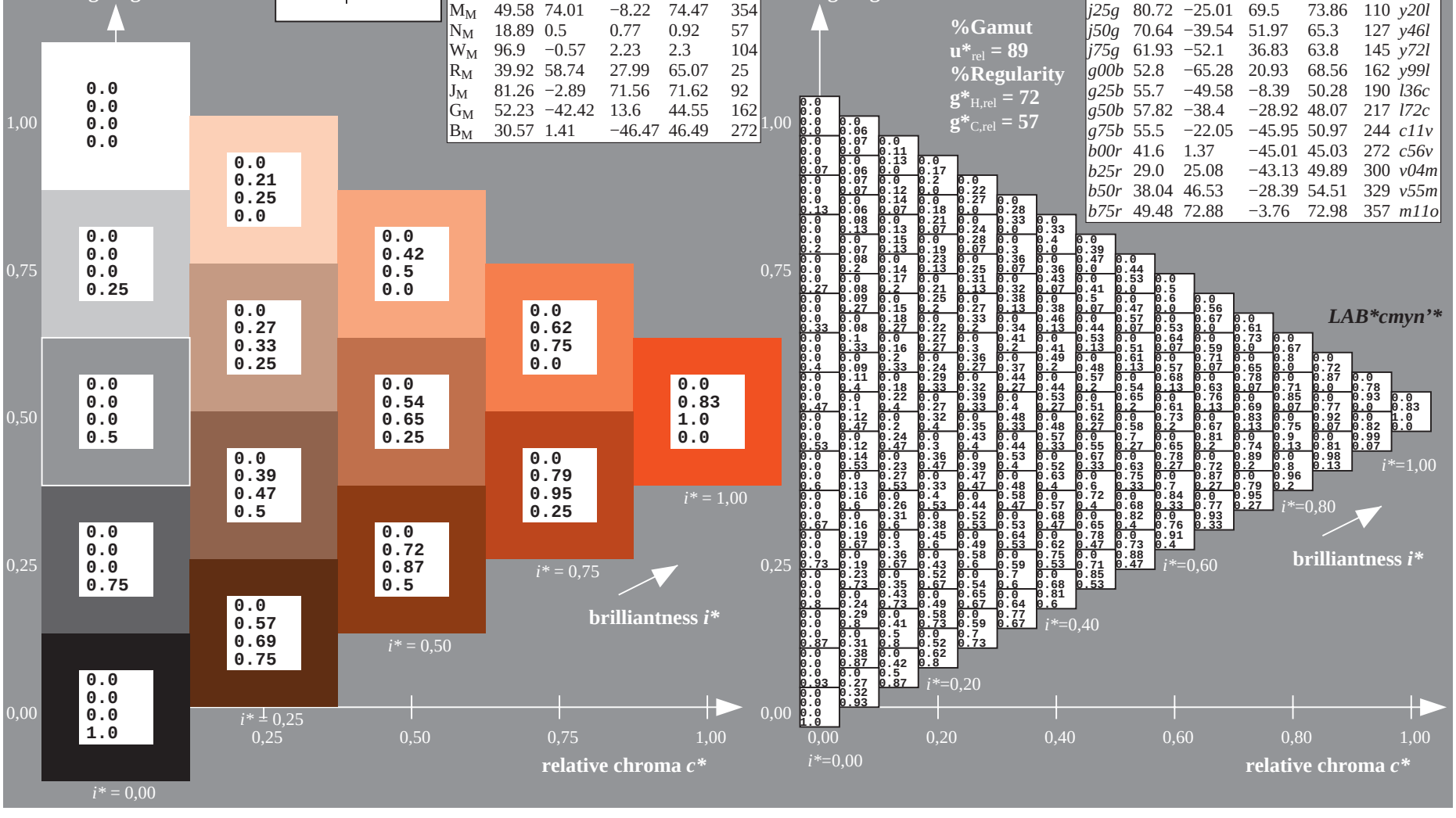
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 56 52 47
LAB*LCH*$_{Ma}$: 56 71 42
lab*rgb*$_{Ma}$: 1.0 0.25 0.0
lab*olv*$_{Ma}$: 1.0 0.17 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e = r25j
LAB*cmyn'*

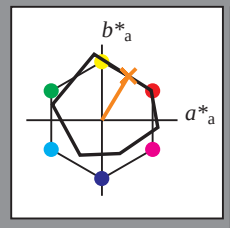
ORS19_96a; adapted (a) CIELAB data

u^*_e	*L*=L*a*	*a*a*	*b*a*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.164**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

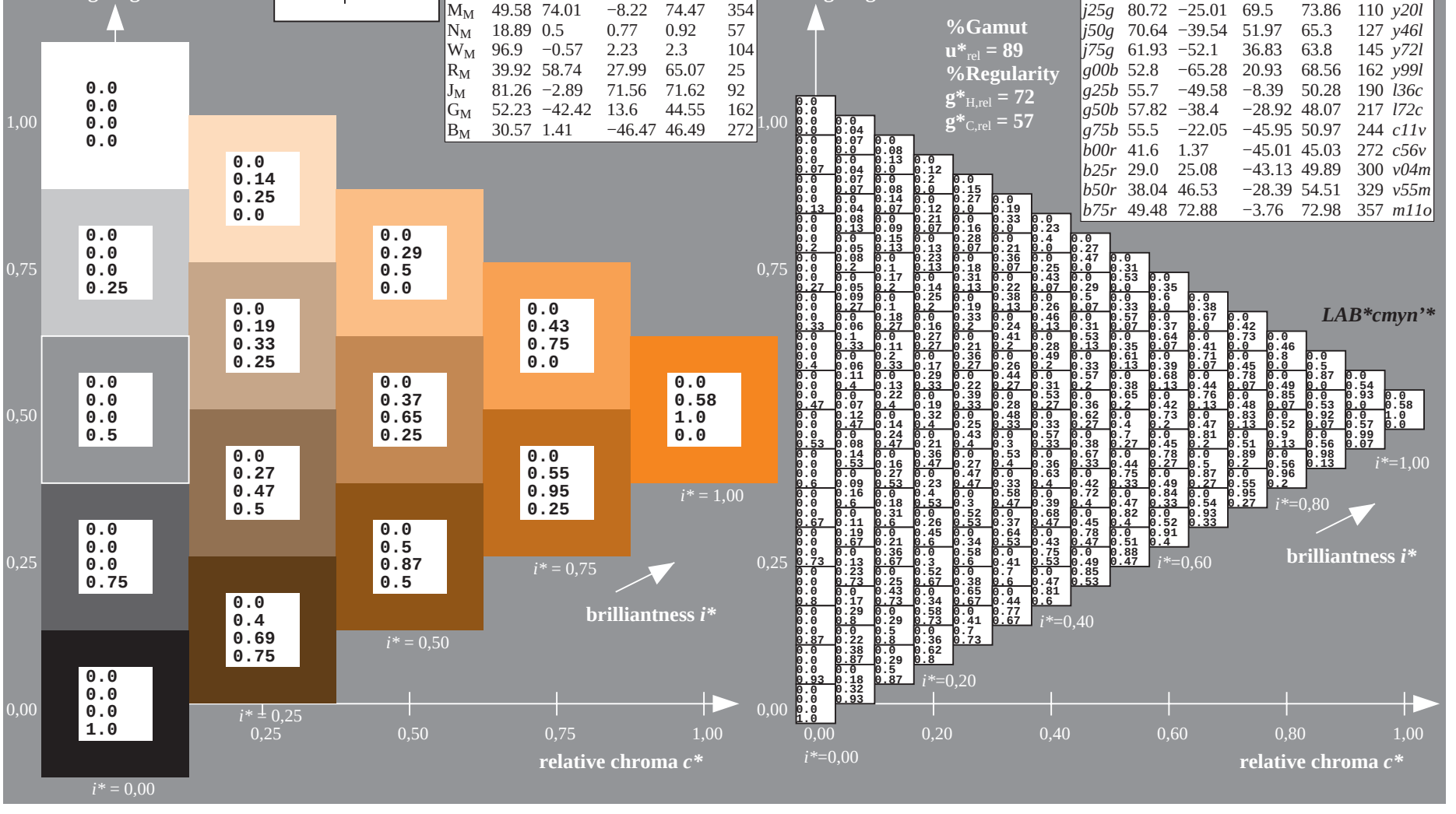
u^*_e	*L*=L**	*a**	*b**	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 65 35 58**
LAB*LCH*$_{Ma}$**: 65 68 58**
lab*rgb*$_{Ma}$**: 1.0 0.5 0.0**
lab*olv*$_{Ma}$**: 1.0 0.42 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

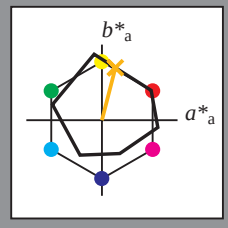
ORS19_96a; adapted (a) CIELAB data

u^*_e	*L*=L*$_a$*	*a*$_a$*	*b*$_a$*	*C*$_{ab,a}$*	*h*$_{ab,a}$*	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.21**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

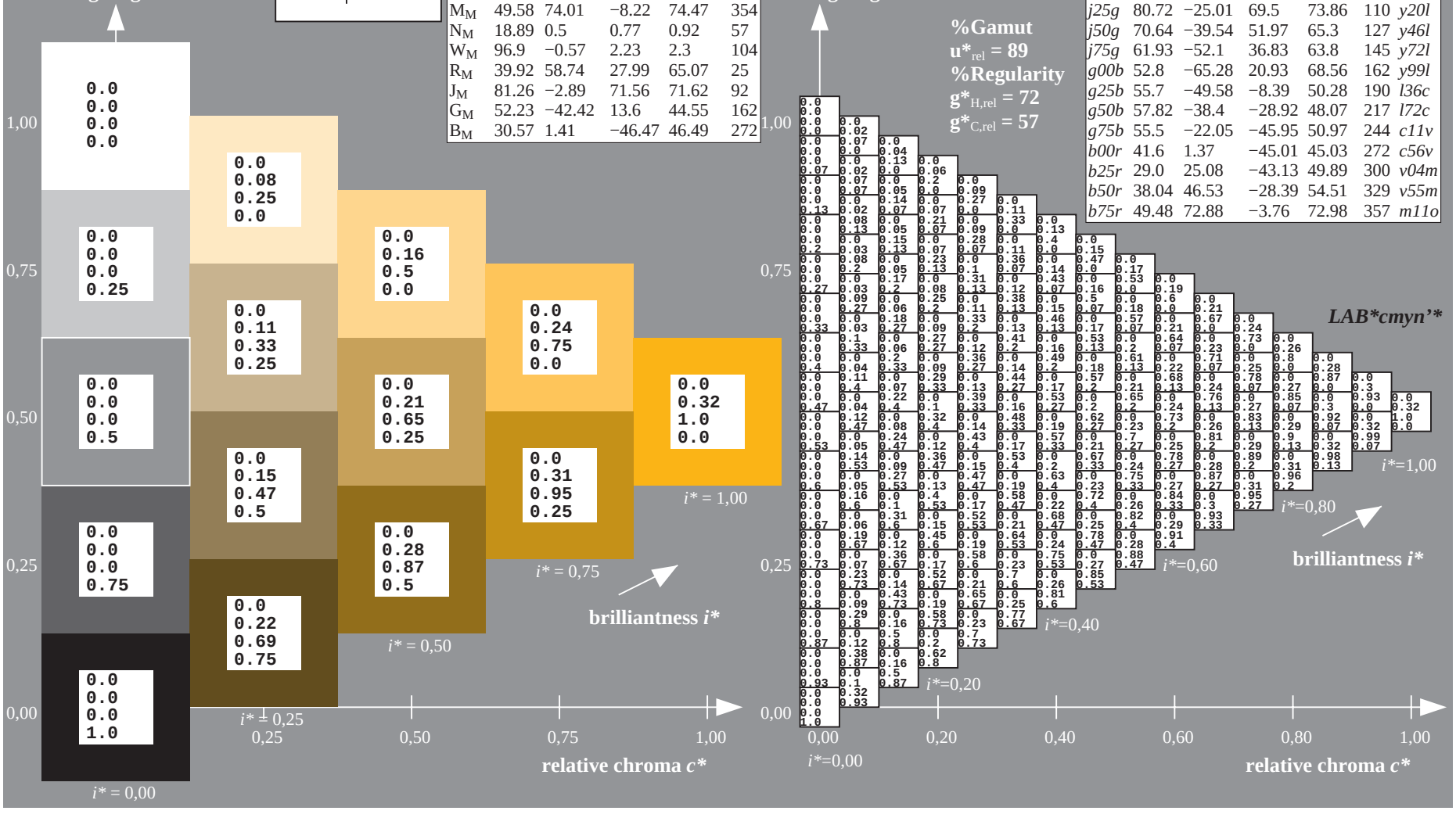
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.68 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *r75j*
LAB*cmyn'*

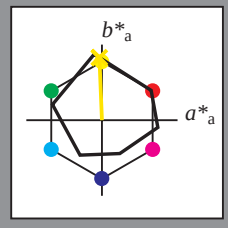
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.256**

data for any colour:
lab*tch* **and** ***lab*icu****
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

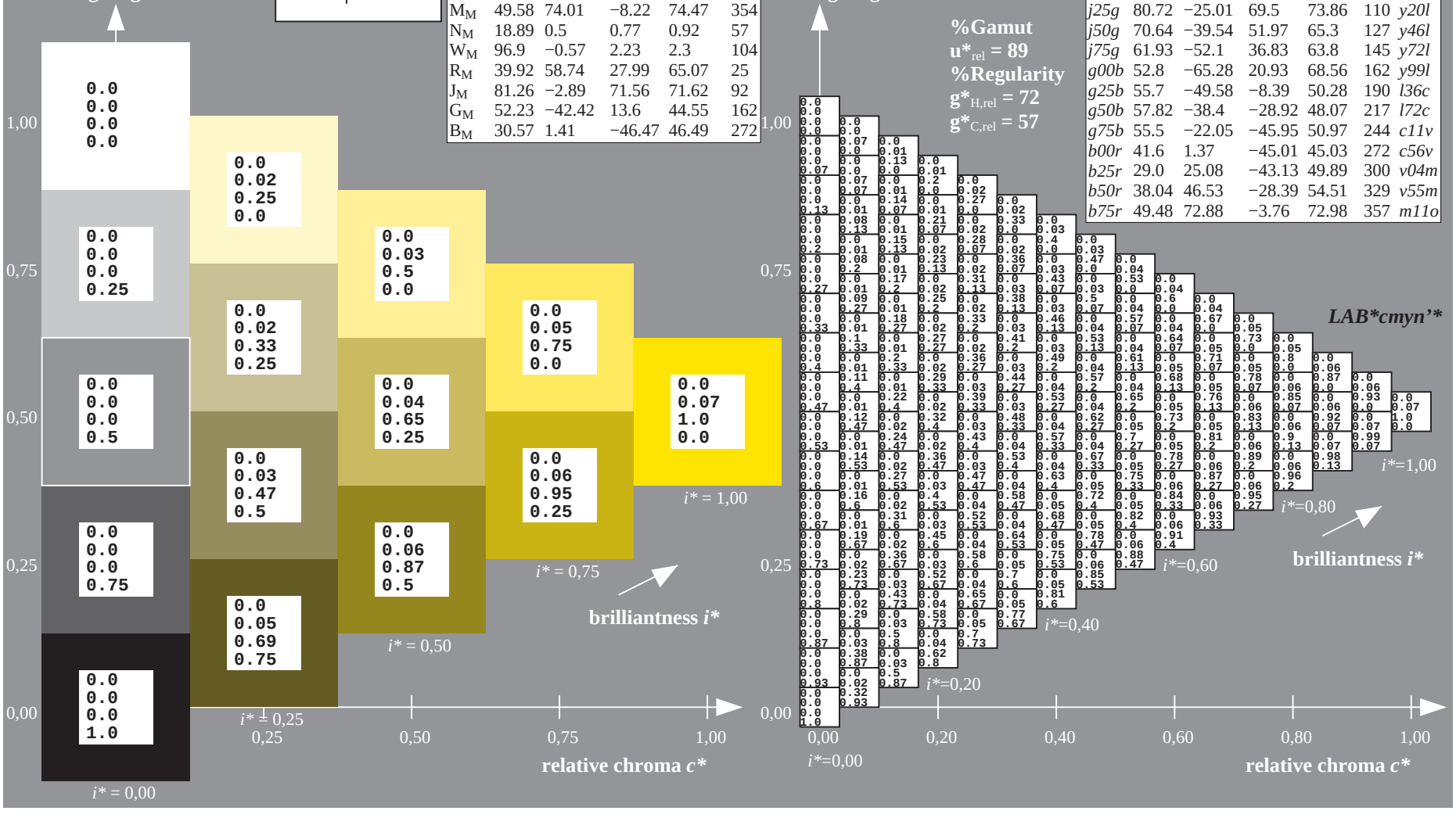
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$**: 87 −3 83**
LAB*LCH*$_{Ma}$**: 87 83 92**
lab*rgb*$_{Ma}$**: 1.0 1.0 0.0**
lab*olv*$_{Ma}$**: 1.0 0.93 0.0**
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u*e = j00g
LAB*cmyn'*

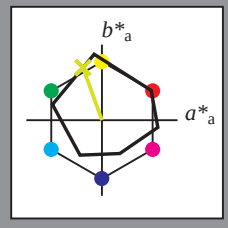
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = j25g$ $u^*_d = y20l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

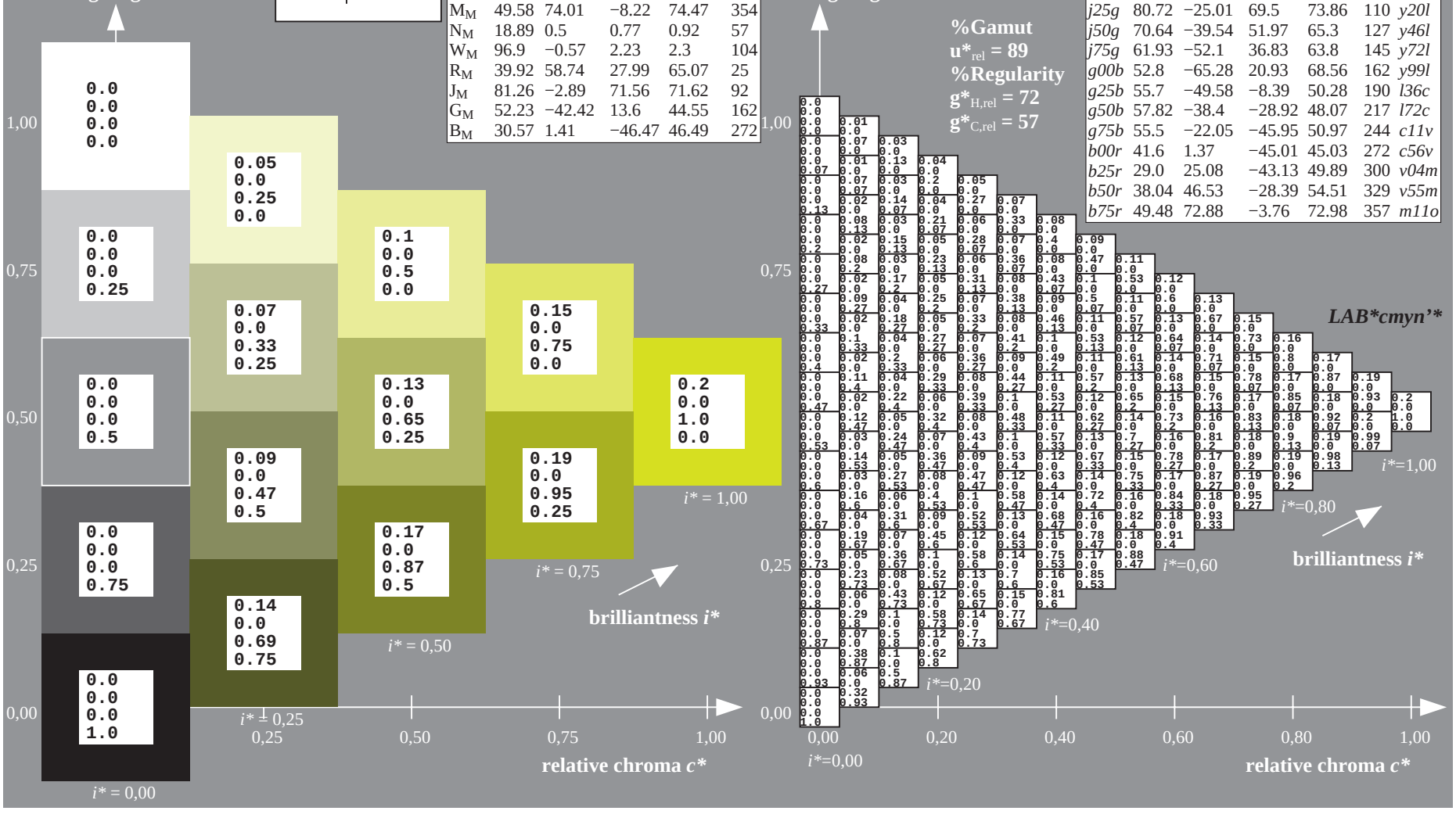
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 81 −25 69
$LAB^*LCH^*_{Ma}$: 81 74 109
$lab^*rgb^*_{Ma}$: 0.75 1.0 0.0
$lab^*olv^*_{Ma}$: 0.8 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

$u^*_e = j25g$
$LAB^*cmyn'^*$

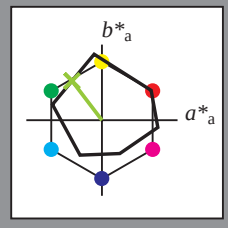
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

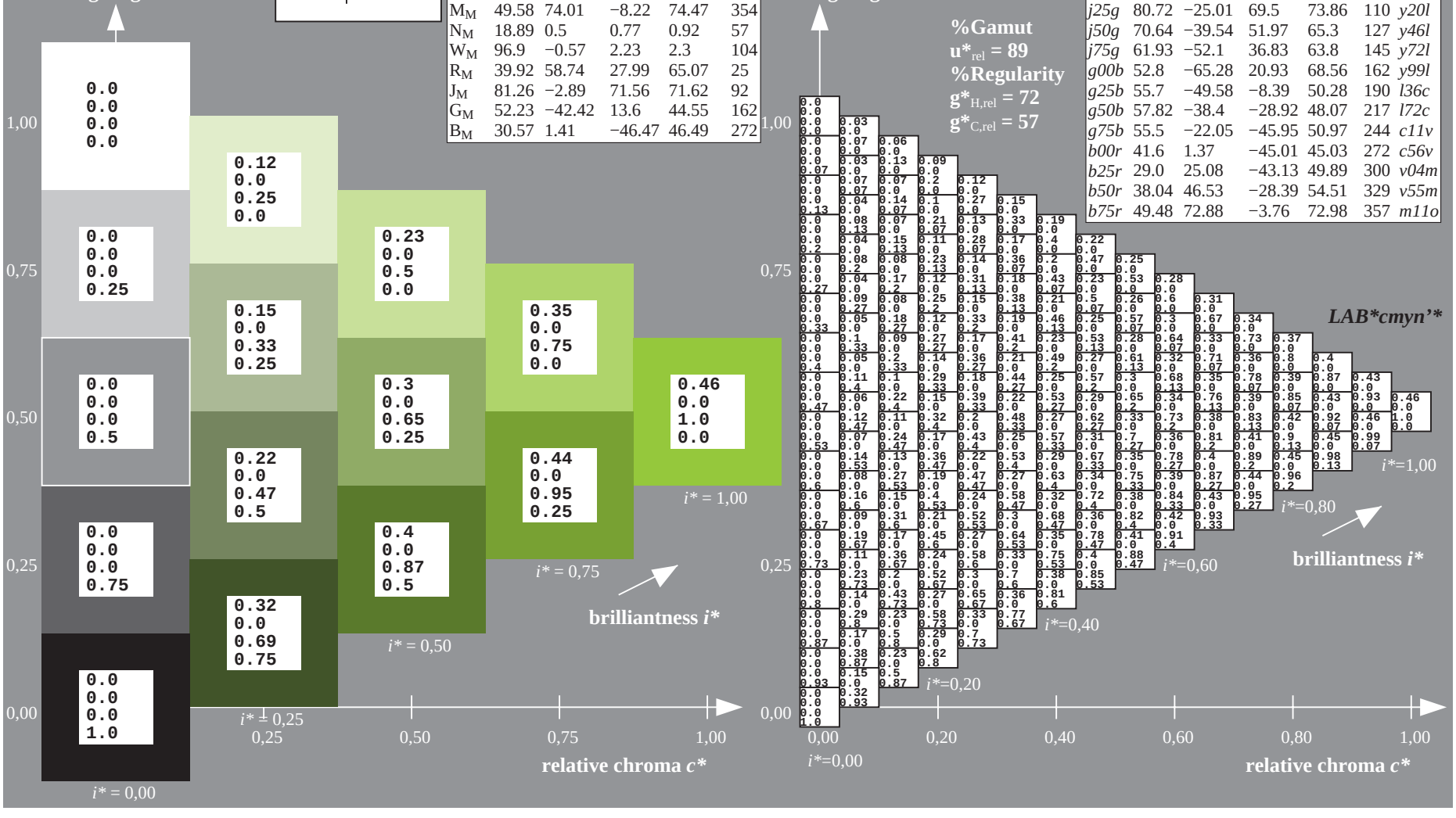
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 71 −40 52
*LAB*LCH**$_{Ma}$: 71 65 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.54 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

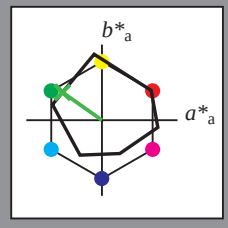
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

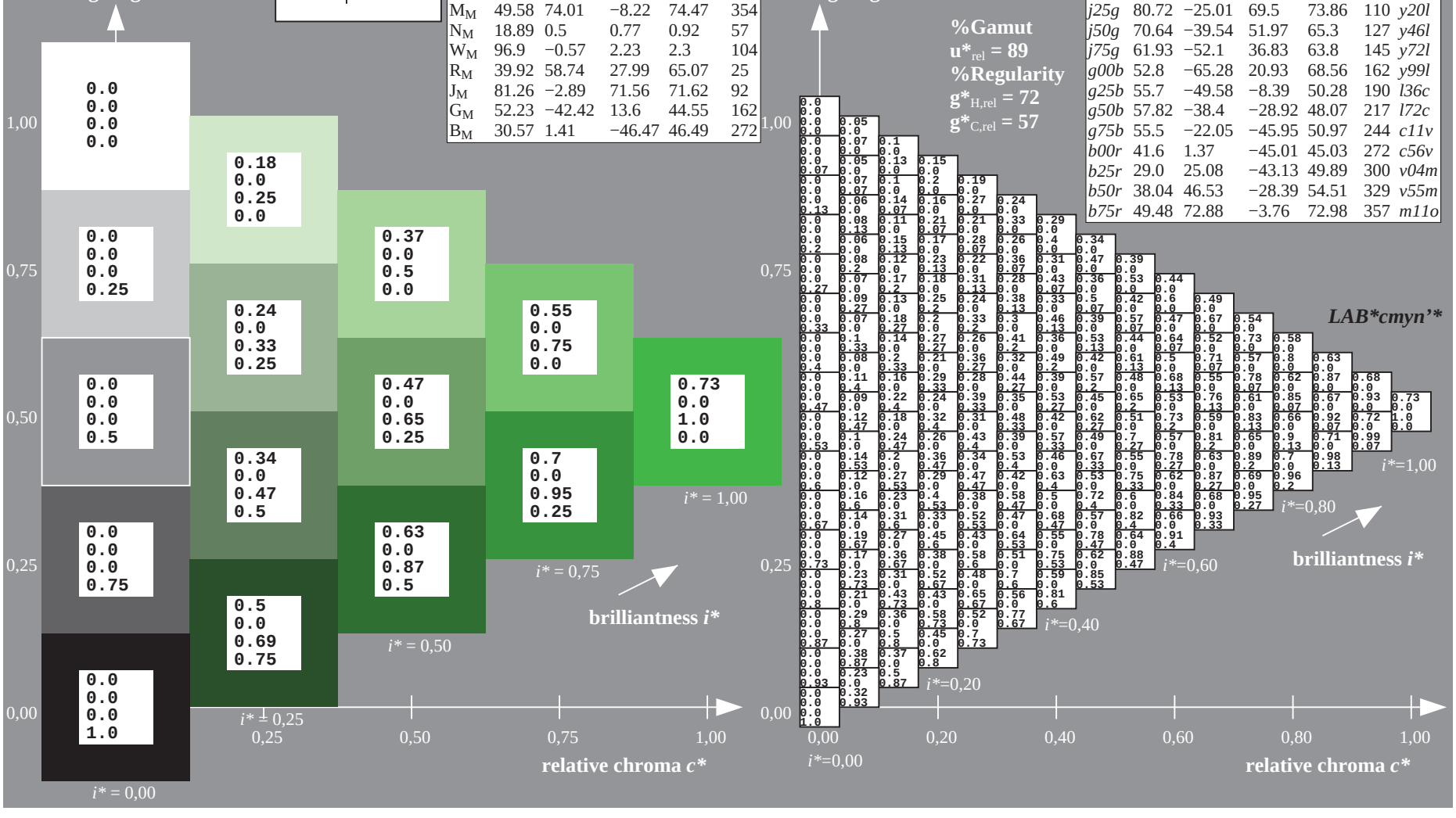
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 62 −52 37
$LAB^*LCH^*_{Ma}$: 62 64 144
$lab^*rgb^*_{Ma}$: 0.25 1.0 0.0
$lab^*olv^*_{Ma}$: 0.27 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

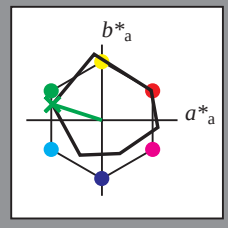
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g00b$ $u^*_d = y99l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

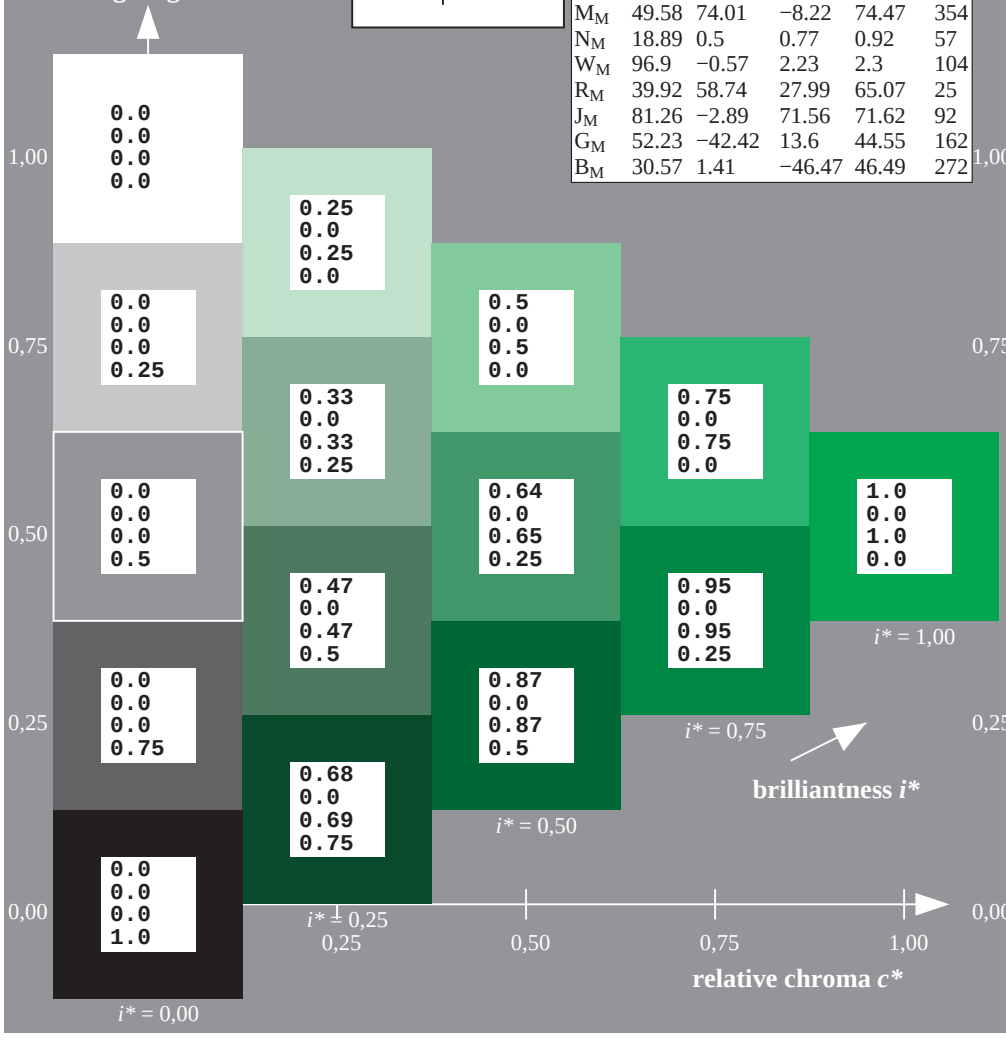
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
triangle lightness *t**

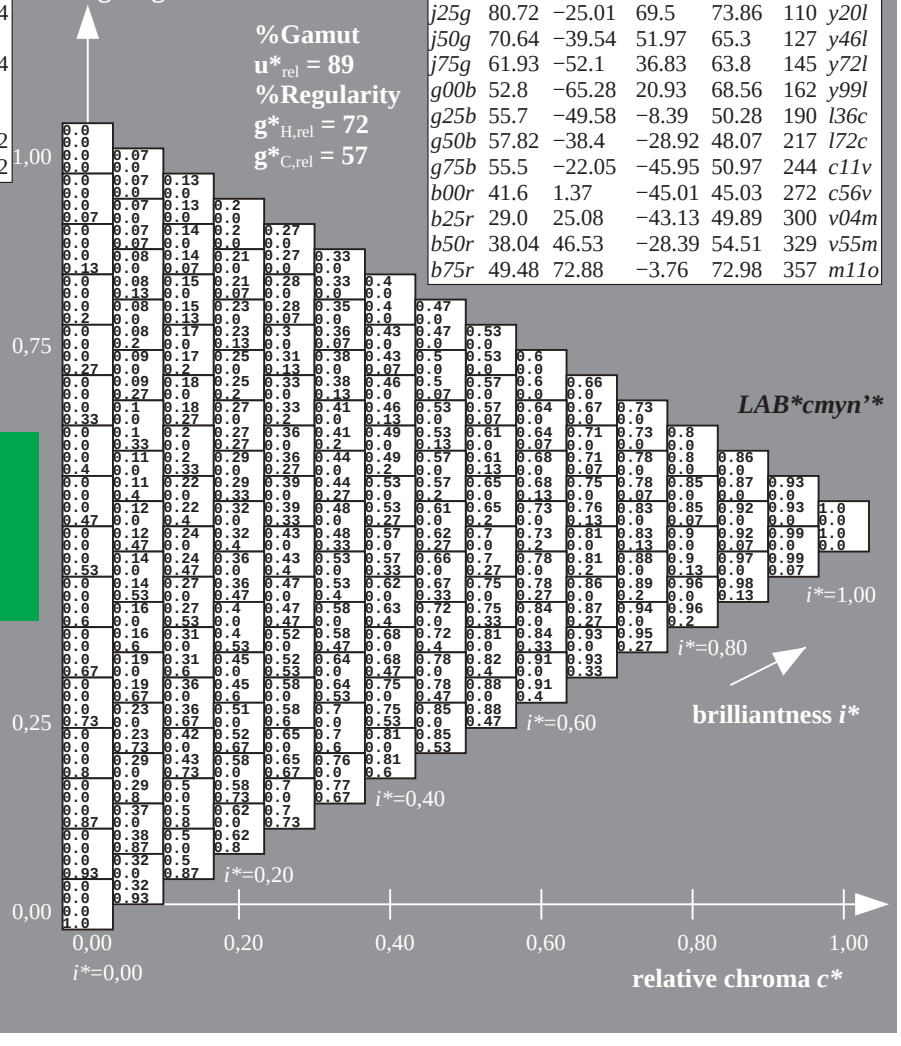
%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

$u^*_e = g00b$
$LAB^*cmyn'^*$

ORS19_96a; adapted (a) CIELAB data

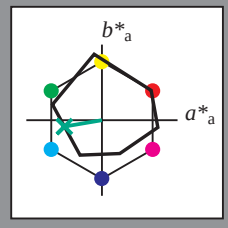
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*





Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *g25b* u^*_d = *l36c*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t



ORS19_96a; CIELAB data

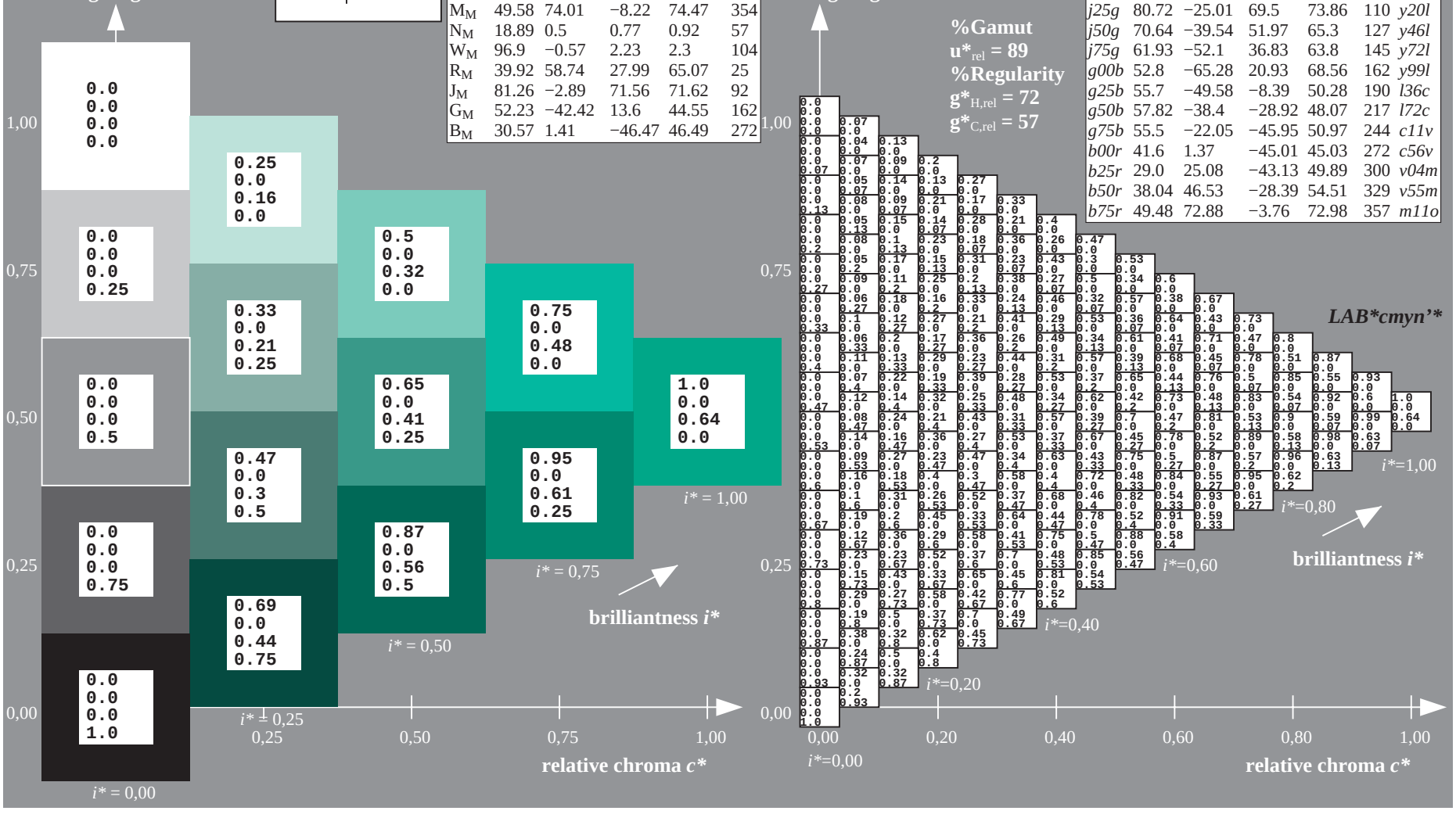
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 −50 −8
*LAB*LCH**$_{Ma}$: 56 50 189
*lab*rgb**$_{Ma}$: 0.0 1.0 0.5
*lab*olv**$_{Ma}$: 0.0 1.0 0.36
triangle lightness *t

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

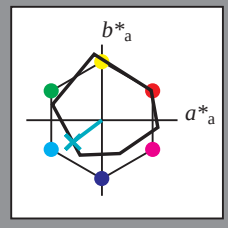
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g50b$ $u^*_d = l72c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

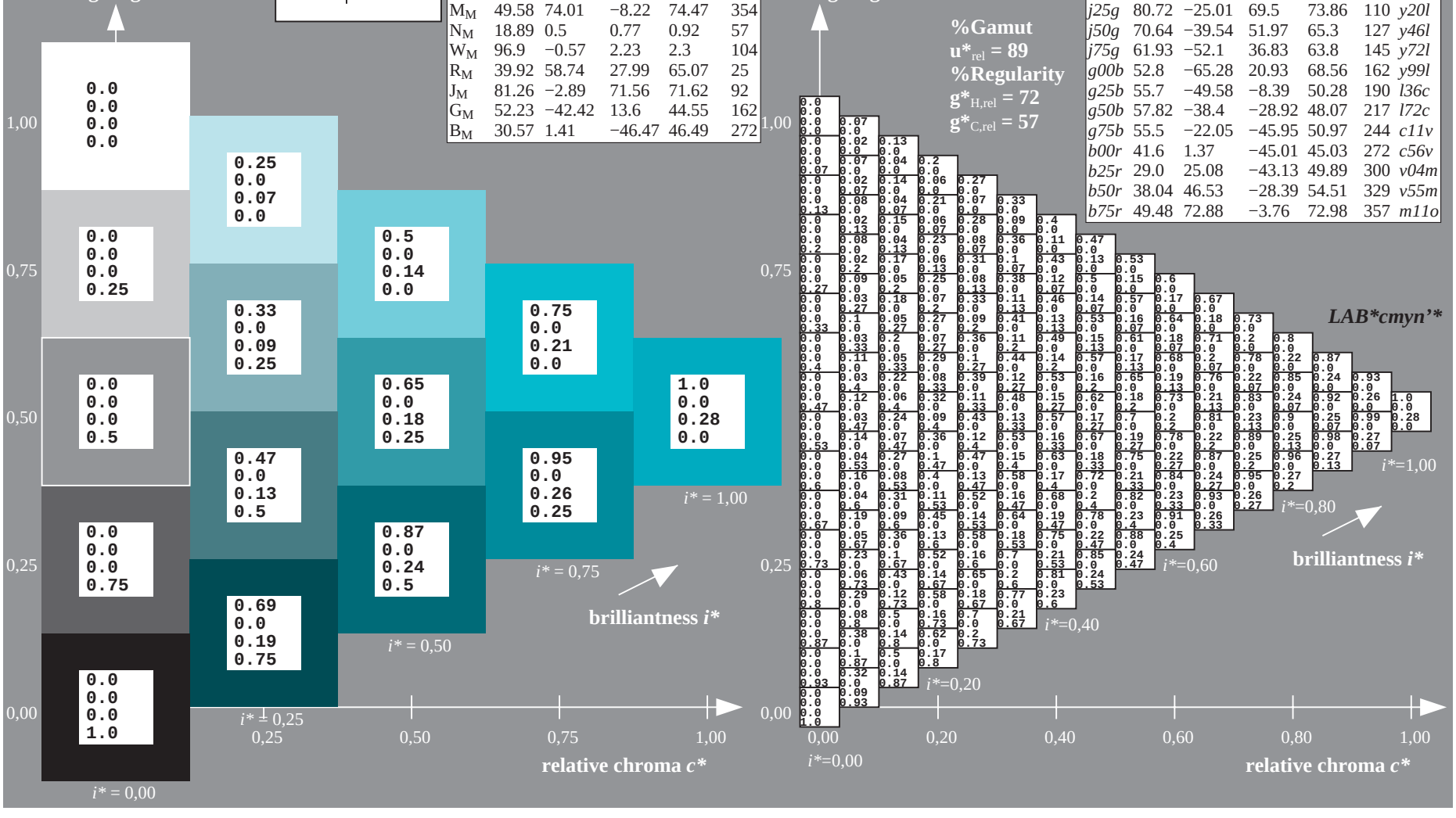
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 58 −38 −29
$LAB^*LCH^*_{Ma}$: 58 48 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.72
triangle lightness t^*

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

$u^*_e = g50b$
$LAB^*cmyn'^*$

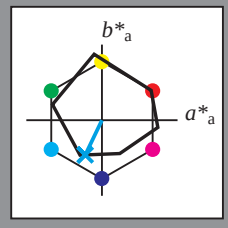
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
$u^*_e = g75b$ $u^*_d = c11v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t**



ORS19_96a; CIELAB data

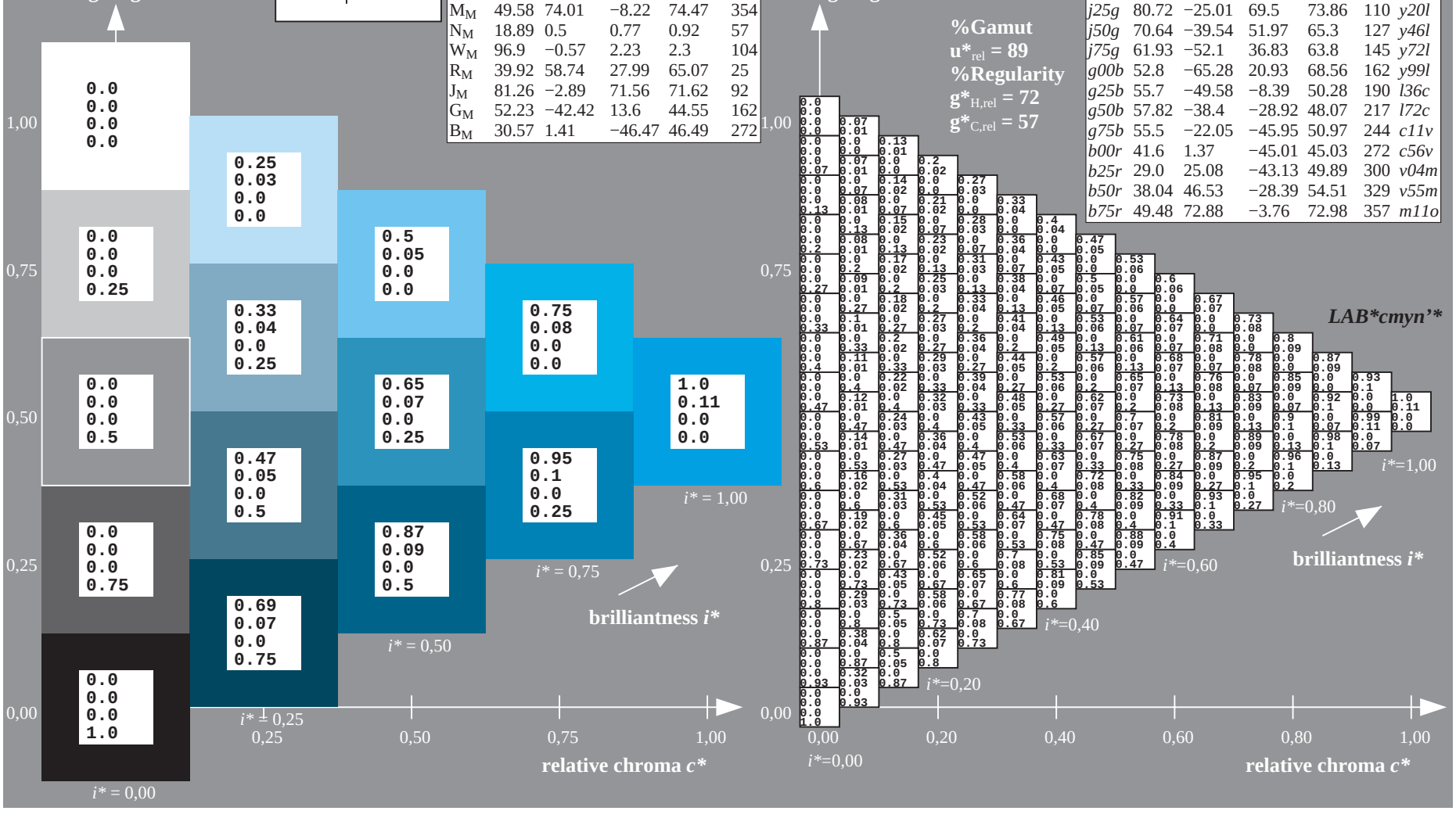
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 55 −22 −46
$LAB^*LCH^*_{Ma}$: 55 51 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.89 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

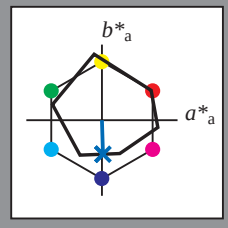
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.755**

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b00r* u^*_d = *c56v*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

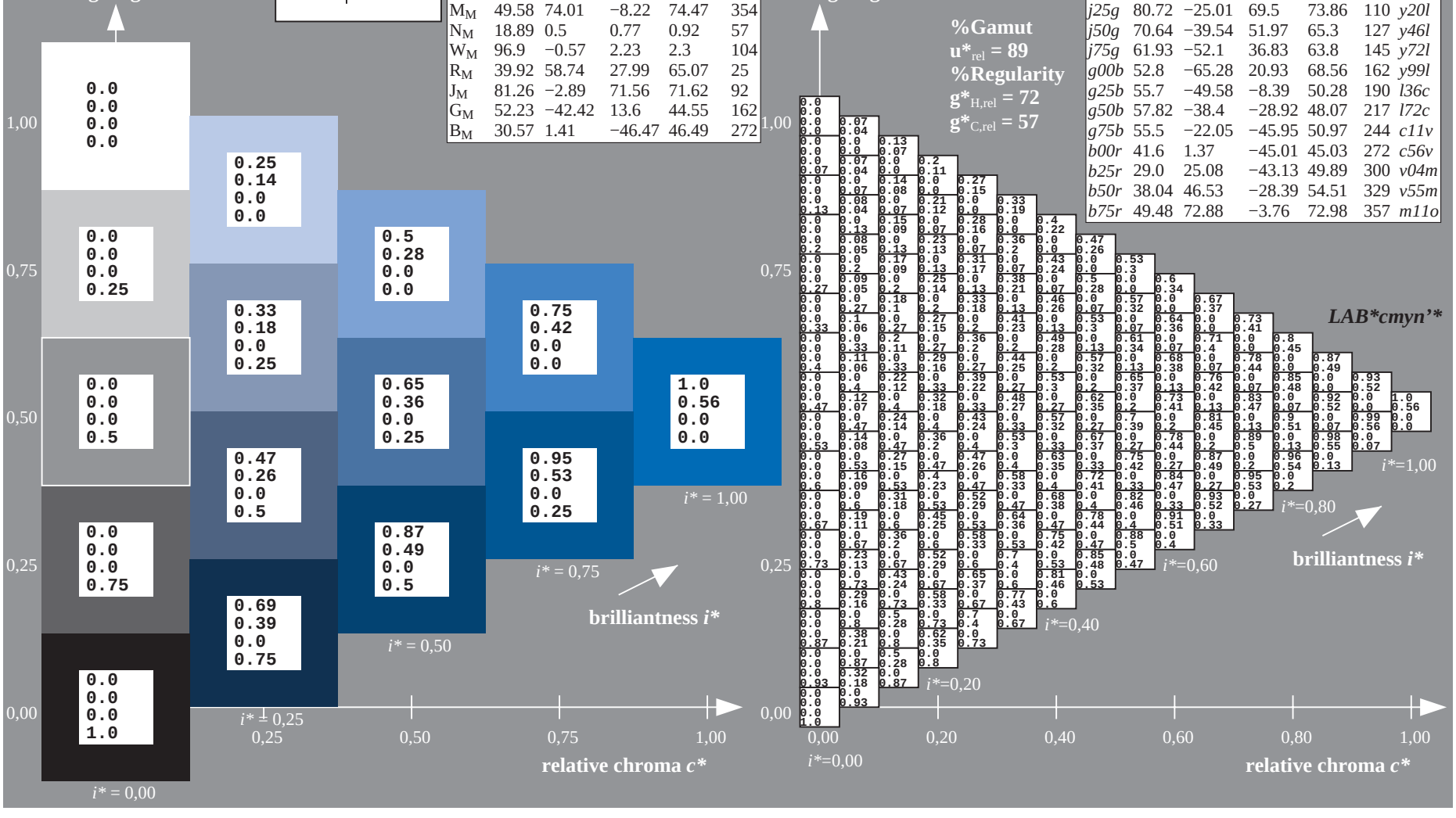
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 1 −45
*LAB*LCH**$_{Ma}$: 42 45 271
*lab*rgb**$_{Ma}$: 0.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.0 0.44 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

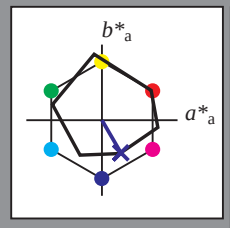
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b25r* u^*_d = *v04m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t



ORS19_96a; CIELAB data

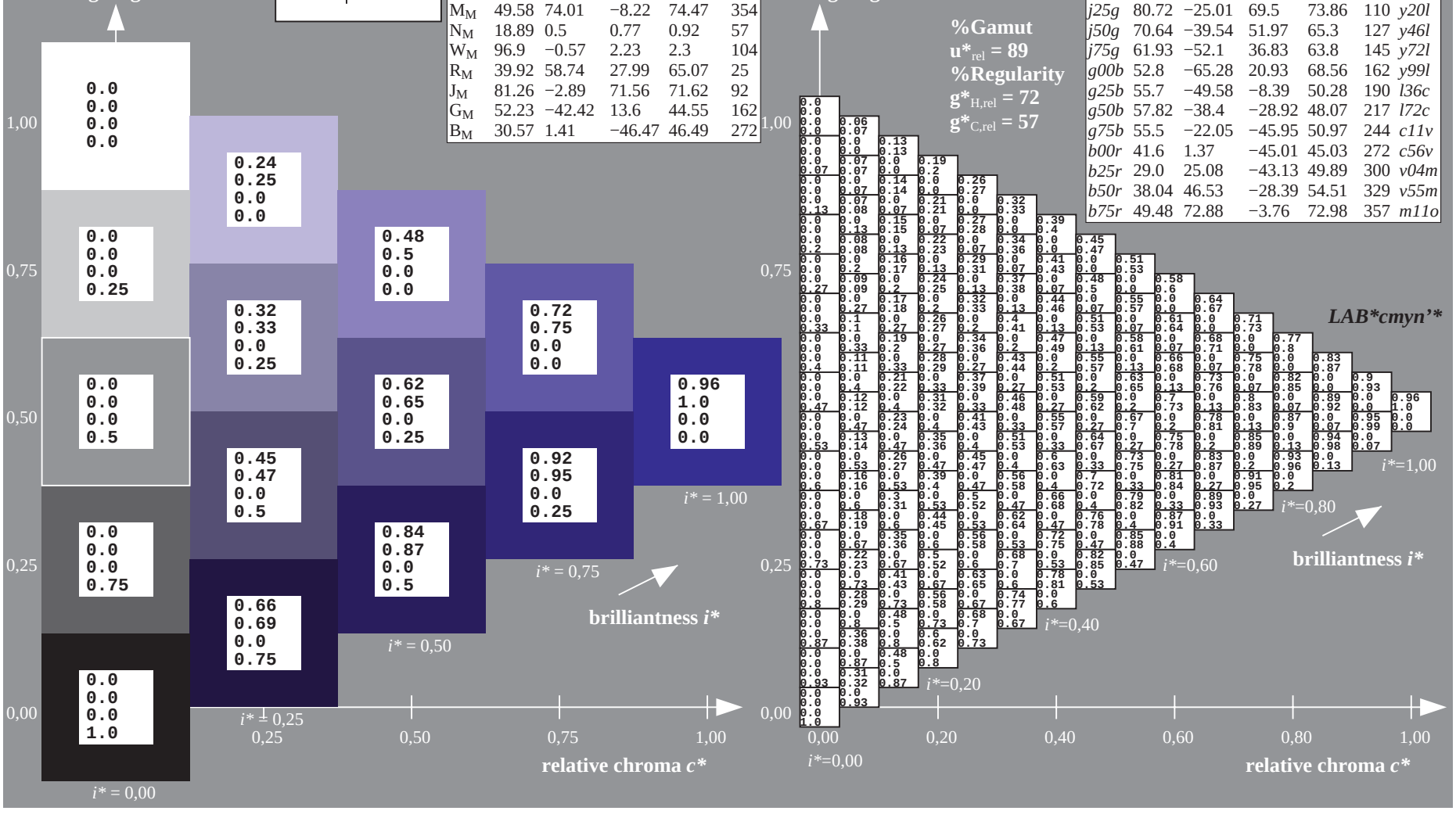
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 29 25 −43
*LAB*LCH**$_{Ma}$: 29 50 300
*lab*rgb**$_{Ma}$: 0.5 0.0 1.0
*lab*olv**$_{Ma}$: 0.04 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

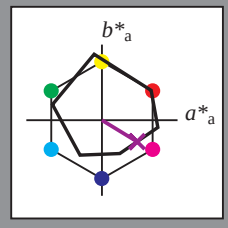
ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$

data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_e = *b50r* u^*_d = *v55m*
contrast reduction factor:
$c_R = 1.0$
triangle lightness *t



ORS19_96a; CIELAB data

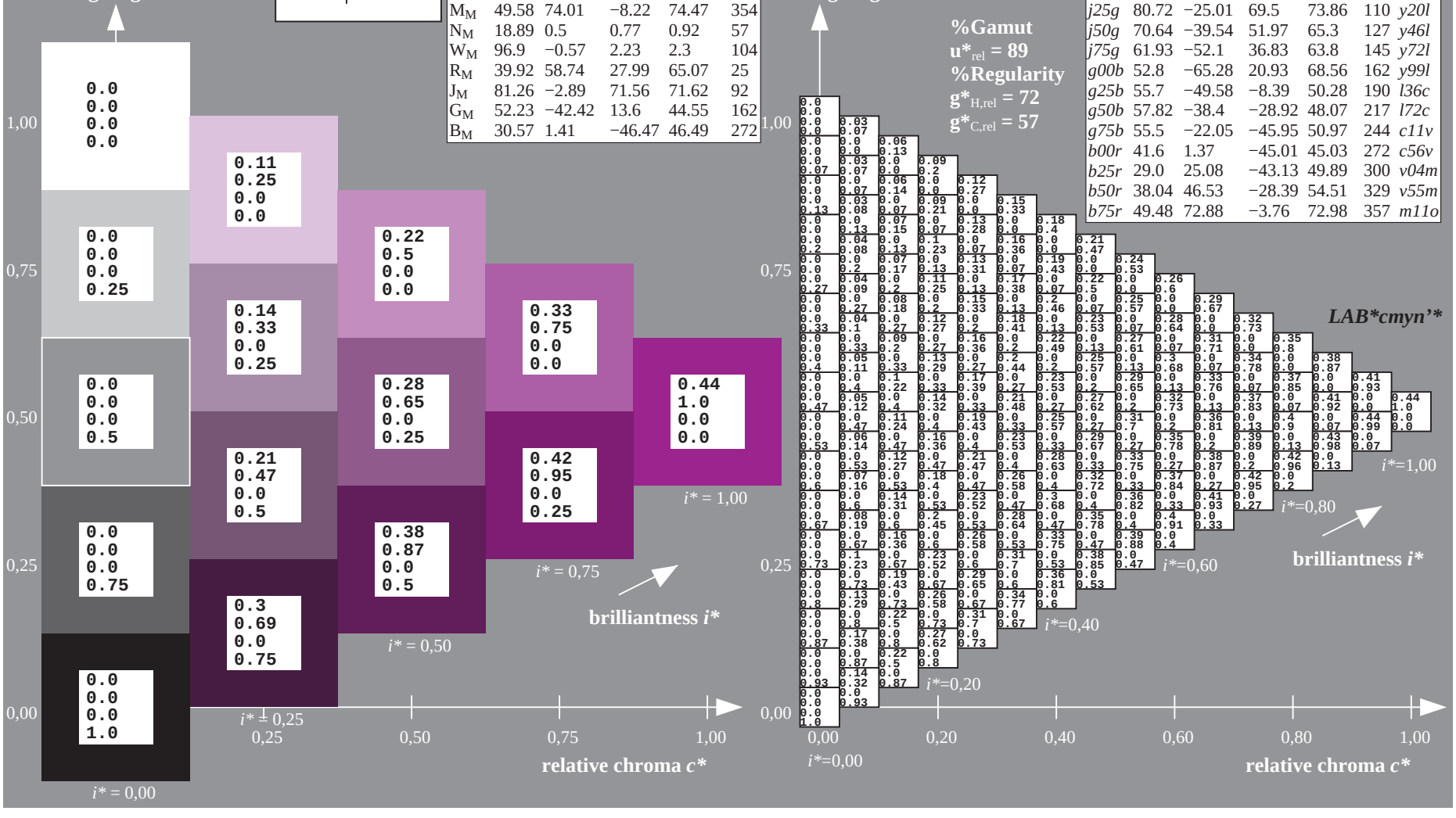
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 47 −28
*LAB*LCH**$_{Ma}$: 38 55 328
*lab*rgb**$_{Ma}$: 1.0 0.0 1.0
*lab*olv**$_{Ma}$: 0.56 0.0 1.0
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

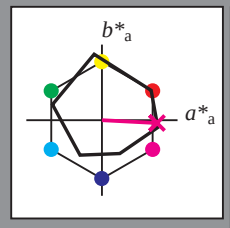


u^*_e = *b50r*
LAB*cmyn'*

input: *000n / w / nnn0 / www set...*
output: *−>cmyn6* setcmykcolor*

Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue *h = *lab*h** = h_{ab}/360 = 0.992**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *b75r* u^*_d = *m11o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



ORS19_96a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	48.75	65.16	40.76	76.86	32
Y_M	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 73 −4
*LAB*LCH**$_{Ma}$: 49 73 357
*lab*rgb**$_{Ma}$: 1.0 0.0 0.5
*lab*olv**$_{Ma}$: 1.0 0.0 0.89
triangle lightness *t**

%Gamut
u^*_{rel} = 89
%Regularity
$g^*_{H,rel}$ = 72
$g^*_{C,rel}$ = 57

u^*_e = *b75r*
LAB*cmyn'*

ORS19_96a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*