

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 22/360 = 0.061$

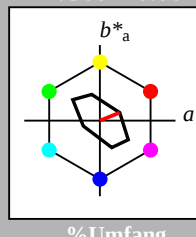
lab^*ich und lab^*nch

D65: Buntton O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 1.0 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.98 0.0 0.0
LAB*LAB 88.98 0.0 0.0
LAB*LAB 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.75 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0
LAB*LAB 50.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.5 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LAB 76.13 0.0 0.0
LAB*LAB 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.25 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.10 0.0 0.0
LAB*LAB 69.10 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*ic 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.10 0.0 0.0
LAB*LAB 69.10 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*ic 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

TLS70; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olv3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 85.92 13.13 5.28
LAB*LAB 85.92 13.13 5.28
LAB*LAB 75.00 14.16 21.92

relative CIELAB lab*
lab*lab 0.631 0.464 0.187
lab*ich 0.75 0.5 0.061
lab*nch 0.0 0.5 0.061
relative Natural Colour (NC)
lab*ich 0.631 0.499 -0.024
lab*nch 0.75 0.5 0.061
lab*ic 0.631 0.499 -0.024
lab*nc 0.75 0.5 0.061

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.0 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 79.49 13.14 5.29
LAB*LAB 79.49 13.14 5.29
LAB*LAB 50.00 14.16 21.92

relative CIELAB lab*
lab*lab 0.381 0.464 0.187
lab*ich 0.5 0.5 0.061
lab*nch 0.0 0.5 0.061
relative Natural Colour (NC)
lab*ich 0.381 0.499 -0.024
lab*nch 0.5 0.5 0.061
lab*ic 0.381 0.499 -0.024
lab*nc 0.5 0.5 0.061

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (1.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.07 13.13 5.29
LAB*LAB 73.07 13.13 5.29
LAB*LAB 25.01 14.16 21.92

relative CIELAB lab*
lab*lab 0.196 0.696 0.28
lab*ich 0.375 0.75 0.061
lab*nch 0.0 0.75 0.061
relative Natural Colour (NC)
lab*ich 0.196 0.749 -0.036
lab*nch 0.375 0.75 0.061
lab*ic 0.196 0.749 -0.036
lab*nc 0.375 0.75 0.061

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 69.10 0.0 0.0
LAB*LAB 69.10 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*ic 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.10 0.0 0.0
LAB*LAB 69.10 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*ic 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 40/360 = 0.111$

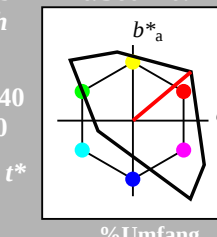
lab^*ich und lab^*nch

D65: Buntton O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 1.0 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.98 0.0 0.0
LAB*LAB 88.98 0.0 0.0
LAB*LAB 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.75 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0
LAB*LAB 50.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.5 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LAB 76.13 0.0 0.0
LAB*LAB 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.25 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.10 0.0 0.0
LAB*LAB 69.10 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*ic 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.10 0.0 0.0
LAB*LAB 69.10 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*ic 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

TLS00; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	79.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 88.98 0.0 0.0
LAB*LAB 88.98 0.0 0.0
LAB*LAB 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.75 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.0 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0
LAB*LAB 50.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.75 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (1.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 79.49 13.14 5.29
LAB*LAB 79.49 13.14 5.29
LAB*LAB 50.00 14.16 21.92

relative CIELAB lab*
lab*lab 0.381 0.464 0.187
lab*ich 0.5 0.5 0.061
lab*nch 0.0 0.5 0.061
relative Natural Colour (NC)
lab*ich 0.381 0.499 -0.024
lab*nch 0.5 0.5 0.061
lab*ic 0.381 0.499 -0.024
lab*nc 0.5 0.5 0.061

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.07 13.13 5.29
LAB*LAB 73.07 13.13 5.29
LAB*LAB 25.01 14.16 21.92

relative CIELAB lab*
lab*lab 0.196 0.696 0.28
lab*ich 0.375 0.75 0.061
lab*nch 0.0 0.75 0.061
relative Natural Colour (NC)
lab*ich 0.196 0.749 -0.036
lab*nch 0.375 0.75 0.061
lab*ic 0.196 0.749 -0.036
lab*nc 0.375 0.75 0.061

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 69.10 0.0 0.0
LAB*LAB 69.10 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*ic 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.0 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0
LAB*LAB 50.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*ic 0.75 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (1.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 79.49 13.14 5.29
LAB*LAB 79.49 13.14 5.29
LAB*LAB 50.00 14.16 21.92

relative CIELAB lab*
lab*lab 0.381 0.464 0.187
lab*ich 0.5 0.5 0.061
lab*nch 0.0 0.5 0.061
relative Natural Colour (NC)
lab*ich 0.381 0.499 -0.024
lab*nch 0.5 0.5 0.061
lab*ic 0.381 0.499 -0.024
lab*nc 0.5 0.5 0.061

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.07 13.13 5.29
LAB*LAB 73.07 13.13 5.29
LAB*LAB 25.01 14.16 21.92

relative CIELAB lab*
lab*lab 0.196 0.696 0.

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 142/360 = 0.395$

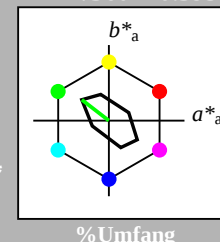
lab^*ich und lab^*nch

D65: Buntton L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Umfang

$u^*_{rel} = 16$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 136/360 = 0.378$

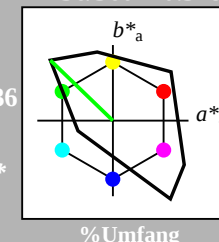
lab^*ich und lab^*nch

D65: Buntton L

LCH*Ma: 84 115 136

olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

TLS00; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Umfang

$u^*_{rel} = 158$

NG580-7, 5 stufige Reihen für konstanten CIELAB Buntton 142/360 = 0.395 (links)

5 stufige Reihen für konstanten CIELAB Buntton 136/360 = 0.378 (rechts)

BAM-Prüfvorlage NG58; Farbmetrik-Systeme TLS70 & TLS00 input: $olv^* setrgbcolor$

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

output: $olv^* setrgbcolor / w^* setgray$

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 198/360 = 0.55$

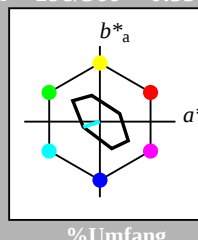
lab^*ich und lab^*nch

D65: Buntton C

LCH*Ma: 91 23 198

olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*ice 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.98 0.0 0.0
LAB*LAB 88.98 0.0 0.0
LAB*LAB 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0
LAB*LAB 50.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LAB 76.13 0.0 0.0
LAB*LAB 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*ice 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.17 0.0 0.0
LAB*LAB 69.17 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.17 0.0 0.0
LAB*LAB 69.17 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

TLS70; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität
 $g^*_{H,rel} = 34$
 $g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 93.17 -10.97 -3.33
LAB*LAB 93.17 -10.97 -3.33
LAB*LAB 75.00 11.53 19.87

relative CIELAB lab*
lab*lab 0.913 -0.475 -0.152
lab*ich 0.75 0.5 0.55
lab*nch 0.0 0.5 0.55
relative Natural Colour (NC)
lab*trj 0.913 -0.435 -0.244
lab*ice 0.75 0.5 0.581
lab*nce 0.0 0.5 0.581

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 86.74 -10.97 -3.33
LAB*LAB 86.74 -10.97 -3.33
LAB*LAB 50.00 11.54 19.87

relative CIELAB lab*
lab*lab 0.869 -0.713 -0.229
lab*ich 0.625 0.75 0.55
lab*nch 0.0 0.75 0.55
relative Natural Colour (NC)
lab*trj 0.869 -0.633 -0.366
lab*ice 0.625 0.75 0.581
lab*nce 0.0 0.75 0.581

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 90.93 -21.95 -7.07
LAB*LAB 90.93 -21.95 -7.07
LAB*LAB 50.00 23.07 19.87

relative CIELAB lab*
lab*lab 0.928 -0.951 -0.306
lab*ich 0.5 0.0 0.55
lab*nch 0.0 0.0 0.55
relative Natural Colour (NC)
lab*trj 0.928 -0.871 -0.488
lab*ice 0.5 0.0 0.581
lab*nce 0.0 0.0 0.581

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.12 -10.97 -3.33
LAB*LAB 80.12 -10.97 -3.33
LAB*LAB 25.01 11.53 19.87

relative CIELAB lab*
lab*lab 0.619 -0.713 -0.229
lab*ich 0.375 0.75 0.55
lab*nch 0.0 0.75 0.55
relative Natural Colour (NC)
lab*trj 0.619 -0.633 -0.366
lab*ice 0.375 0.75 0.581
lab*nce 0.0 0.75 0.581

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.12 -10.97 -3.33
LAB*LAB 80.12 -10.97 -3.33
LAB*LAB 25.01 11.53 19.87

relative CIELAB lab*
lab*lab 0.619 -0.713 -0.229
lab*ich 0.375 0.75 0.55
lab*nch 0.0 0.75 0.55
relative Natural Colour (NC)
lab*trj 0.619 -0.633 -0.366
lab*ice 0.375 0.75 0.581
lab*nce 0.0 0.75 0.581

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 196/360 = 0.545$

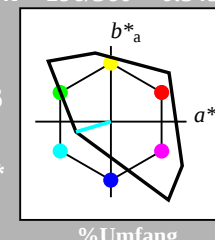
lab^*tch und lab^*nch

D65: Buntton C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*ice 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.98 0.0 0.0
LAB*LAB 88.98 0.0 0.0
LAB*LAB 75.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0
LAB*LAB 50.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LAB 76.13 0.0 0.0
LAB*LAB 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*ice 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.17 0.0 0.0
LAB*LAB 69.17 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.17 0.0 0.0
LAB*LAB 69.17 0.0 0.0
LAB*LAB 0.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

TLS00; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität
 $g^*_{H,rel} = 20$
 $g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.14 -23.07 -6.77
LAB*LAB 91.14 -23.07 -6.77
LAB*LAB 75.00 24.06 19.37

relative CIELAB lab*
lab*lab 0.955 -0.479 -0.14
lab*ich 0.75 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.955 -0.44 -0.234
lab*ice 0.75 0.5 0.578
lab*nce 0.0 0.5 0.578

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 86.87 -23.08 -6.77
LAB*LAB 86.87 -23.08 -6.77
LAB*LAB 50.00 24.06 19.37

relative CIELAB lab*
lab*lab 0.955 -0.479 -0.14
lab*ich 0.75 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.955 -0.44 -0.234
lab*ice 0.75 0.5 0.578
lab*nce 0.0 0.5 0.578

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.17 -23.08 -6.77
LAB*LAB 69.17 -23.08 -6.77
LAB*LAB 0.00 24.06 19.37

relative CIELAB lab*
lab*lab 0.955 -0.479 -0.14
lab*ich 0.75 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.955 -0.44 -0.234
lab*ice 0.75 0.5 0.578
lab*nce 0.0 0.5 0.578

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.17 -23.08 -6.77
LAB*LAB 69.17 -23.08 -6.77
LAB*LAB 0.00 24.06 19.37

relative CIELAB lab*
lab*lab 0.955 -0.479 -0.14
lab*ich 0.75 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.955 -0.44 -0.234
lab*ice 0.75 0.5 0.578
lab*nce 0.0 0.5 0.578

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.17 -23.08 -6.77
LAB*LAB 69.17 -23.08 -6.77
LAB*LAB 0.00 24.06 19.37

relative CIELAB lab*
lab*lab 0.955 -0.479 -0.14
lab*ich 0.75 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.955 -0.44 -0.234
lab*ice 0.75 0.5 0.578
lab*nce 0.0 0.5 0.578

NG580-7, 5 stufige Reihen für konstanten CIELAB Buntton 198/360 = 0.55 (links)

5 stufige Reihen für konstanten CIELAB Buntton 196/360 = 0.545 (rechts)

BAM-Prüfvorlage NG58; Farbmetrik-Systeme TLS70 & TLS00 input: $olv^* setrgbcolor$

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

output: $olv^* setrgbcolor / w^* setgray$

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 294/360 = 0.816$

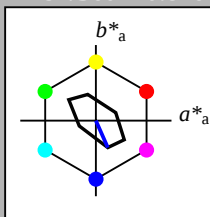
lab^*ich und lab^*nch

D65: Buntton V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*LABb 88.98 0.0 0.0
LAB*LABc 88.98 0.0 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0

standard and adapted CIELAB

LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*LABb 82.56 0.0 0.0
LAB*LABc 82.56 0.0 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0

standard and adapted CIELAB

LAB*LAB 75.00 0.0 0.0
LAB*LABa 75.00 0.0 0.0
LAB*LABb 75.00 0.0 0.0
LAB*LABc 75.00 0.0 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.75 0.75 1.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olv4* 0.75 0.75 1.0 (1.0)
cmyn4* 0.25 0.25 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 89.58 3.94 -8.9
LAB*LABa 89.58 3.94 -8.9
LAB*LABb 89.58 3.94 -8.9
LAB*LABc 89.58 3.94 -8.9

relative CIELAB lab*

lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0

relative Natural Colour (NC)

lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0

standard and adapted CIELAB

LAB*LAB 83.16 3.94 -8.9
LAB*LABa 83.16 3.94 -8.9
LAB*LABb 83.16 3.94 -8.9
LAB*LABc 83.16 3.94 -8.9

relative CIELAB lab*

lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0

relative Natural Colour (NC)

lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0

standard and adapted CIELAB

LAB*LAB 76.73 3.94 -8.9
LAB*LABa 76.73 3.94 -8.9
LAB*LABb 76.73 3.94 -8.9
LAB*LABc 76.73 3.94 -8.9

relative CIELAB lab*

lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0

relative Natural Colour (NC)

lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0

TLS70; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)

olv3* 0.5 0.5 1.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olv4* 0.5 0.5 1.0 (1.0)
cmyn4* 0.5 0.5 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 83.75 7.88 -17.81
LAB*LABa 83.75 7.88 -17.81
LAB*LABb 83.75 7.88 -17.81
LAB*LABc 83.75 7.88 -17.81

relative CIELAB lab*

lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0

relative Natural Colour (NC)

lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0

standard and adapted CIELAB

LAB*LAB 77.93 11.82 -26.72
LAB*LABa 77.93 11.82 -26.72
LAB*LABb 77.93 11.82 -26.72
LAB*LABc 77.93 11.82 -26.72

relative CIELAB lab*

lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0

relative Natural Colour (NC)

lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0

standard and adapted CIELAB

LAB*LAB 71.12 11.82 -26.72
LAB*LABa 71.12 11.82 -26.72
LAB*LABb 71.12 11.82 -26.72
LAB*LABc 71.12 11.82 -26.72

relative CIELAB lab*

lab*lab 0.0 0.0 1.0
lab*lab 0.0 0.0 1.0
lab*lab 0.0 0.0 1.0
lab*lab 0.0 0.0 1.0

relative Inform. Technology (IT)

olv3* 0.25 0.25 1.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olv4* 0.25 0.25 1.0 (1.0)
cmyn4* 0.25 0.25 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 83.75 7.88 -17.81
LAB*LABa 83.75 7.88 -17.81
LAB*LABb 83.75 7.88 -17.81
LAB*LABc 83.75 7.88 -17.81

relative CIELAB lab*

lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0

relative Natural Colour (NC)

lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0

standard and adapted CIELAB

LAB*LAB 77.93 11.82 -26.72
LAB*LABa 77.93 11.82 -26.72
LAB*LABb 77.93 11.82 -26.72
LAB*LABc 77.93 11.82 -26.72

relative CIELAB lab*

lab*lab 0.1 0.1 1.0
lab*lab 0.1 0.1 1.0
lab*lab 0.1 0.1 1.0
lab*lab 0.1 0.1 1.0

relative Natural Colour (NC)

lab*lab 0.1 0.1 1.0
lab*lab 0.1 0.1 1.0
lab*lab 0.1 0.1 1.0
lab*lab 0.1 0.1 1.0

standard and adapted CIELAB

LAB*LAB 71.12 11.82 -26.72
LAB*LABa 71.12 11.82 -26.72
LAB*LABb 71.12 11.82 -26.72
LAB*LABc 71.12 11.82 -26.72

relative CIELAB lab*

lab*lab 0.0 0.0 1.0
lab*lab 0.0 0.0 1.0
lab*lab 0.0 0.0 1.0
lab*lab 0.0 0.0 1.0

1.00

0.75

0.50

0.25

0.00

relative Buntheit c^*

$n^* = 1.0$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 306/360 = 0.851$

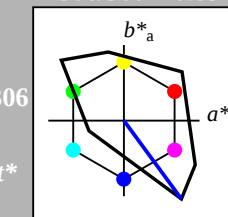
lab^*ich und lab^*nch

D65: Buntton V

LCH*Ma: 30 129 306

olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*LABb 88.98 0.0 0.0
LAB*LABc 88.98 0.0 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0

standard and adapted CIELAB

LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*LABb 82.56 0.0 0.0
LAB*LABc 82.56 0.0 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0

standard and adapted CIELAB

LAB*LAB 75.00 0.0 0.0
LAB*LABa 75.00 0.0 0.0
LAB*LABb 75.00 0.0 0.0
LAB*LABc 75.00 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.75 0.75 1.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olv4* 0.75 0.75 1.0 (1.0)
cmyn4* 0.25 0.25 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 89.58 3.94 -8.9
LAB*LABa 89.58 3.94 -8.9
LAB*LABb 89.58 3.94 -8.9
LAB*LABc 89.58 3.94 -8.9

relative CIELAB lab*

lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0

relative Natural Colour (NC)

lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0
lab*lab 0.75 0.75 1.0

standard and adapted CIELAB

LAB*LAB 83.16 3.94 -8.9
LAB*LABa 83.16 3.94 -8.9
LAB*LABb 83.16 3.94 -8.9
LAB*LABc 83.16 3.94 -8.9

relative CIELAB lab*

lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0

relative Natural Colour (NC)

lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0

standard and adapted CIELAB

LAB*LAB 76.73 3.94 -8.9
LAB*LABa 76.73 3.94 -8.9
LAB*LABb 76.73 3.94 -8.9
LAB*LABc 76.73 3.94 -8.9

relative CIELAB lab*

lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0

relative Natural Colour (NC)

lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0
lab*lab 0.25 0.25 1.0

relative Inform. Technology (IT)

olv3* 0.5 0.5 1.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olv4* 0.5 0.5 1.0 (1.0)
cmyn4* 0.5 0.5 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 83.75 7.88 -17.81
LAB*LABa 83.75 7.88 -17.81
LAB*LABb 83.75 7.88 -17.81
LAB*LABc 83.75 7.88 -17.81

relative CIELAB lab*

lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0

relative Natural Colour (NC)

lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0
lab*lab 0.5 0.5 1.0

standard and adapted CIELAB

LAB*LAB 77.93 11.82 -26.72
LAB*LABa 77.93 11.82 -26.72
LAB*LABb 77.93 11.82 -26.72
LAB*LABc 77.93 11.82 -26.72

relative CIELAB lab*

lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0

relative Natural Colour (NC)

lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0
lab*lab 0.3 0.3 1.0

standard and adapted CIELAB

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 326/360 = 0.906$

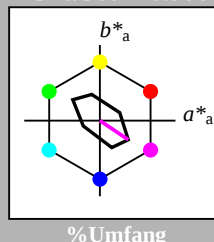
lab^*ich und lab^*nch

D65: Buntton M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

%Regularität

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 328/360 = 0.912$

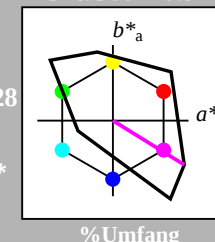
lab^*tch und lab^*nch

D65: Buntton M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



$u^*_{rel} = 158$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

TLS00; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	79.75	93.08	103
L _{Ma}	83.63	-82.75	90.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

%Regularität

NG580-7, 5 stufige Reihen für konstanten CIELAB Buntton 326/360 = 0.906 (links)

5 stufige Reihen für konstanten CIELAB Buntton 328/360 = 0.912 (rechts)

BAM-Prüfvorlage NG58; Farbmetrik-Systeme TLS70 & TLS00 input: $olv^* setrgbcolor$

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: $olv^* setrgbcolor / w^* setgray$

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 25/360 = 0.071$

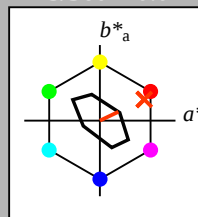
lab^*ich und lab^*nch

D65: Buntton R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	
LAB*LAB	90.87	6.13	2.92	

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	
LAB*LAB	86.33	12.27	5.85	

NG580-7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (rechts)

BAM-Prüfvorlage NG58; Farbmetrik-Systeme TLS70 & TLS00 input: $olv^* setrgbcolor$

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: $olv^* setrgbcolor / w^* setgray$

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 162/360 = 0.451$

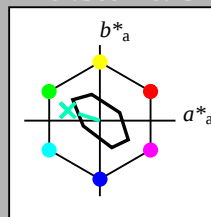
lab^*ich und lab^*nch

D65: Buntton G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

Dreiecks-Helligkeit t^*



$u^*_{rel} = 16$

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0
olv21*	0.0	0.0	0.0
olv22*	0.0	0.0	0.0
olv23*	0.0	0.0	0.0
olv24*	0.0	0.0	0.0
olv25*	0.0	0.0	0.0
olv26*	0.0	0.0	0.0
olv27*	0.0	0.0	0.0
olv28*	0.0	0.0	0.0
olv29*	0.0	0.0	0.0
olv30*	0.0	0.0	0.0
olv31*	0.0	0.0	0.0
olv32*	0.0	0.0	0.0
olv33*	0.0	0.0	0.0
olv34*	0.0	0.0	0.0
olv35*	0.0	0.0	0.0
olv36*	0.0	0.0	0.0
olv37*	0.0	0.0	0.0
olv38*	0.0	0.0	0.0
olv39*	0.0	0.0	0.0
olv40*	0.0	0.0	0.0
olv41*	0.0	0.0	0.0
olv42*	0.0	0.0	0.0
olv43*	0.0	0.0	0.0
olv44*	0.0	0.0	0.0
olv45*	0.0	0.0	0.0
olv46*	0.0	0.0	0.0
olv47*	0.0	0.0	0.0
olv48*	0.0	0.0	0.0
olv49*	0.0	0.0	0.0
olv50*	0.0	0.0	0.0
olv51*	0.0	0.0	0.0
olv52*	0.0	0.0	0.0
olv53*	0.0	0.0	0.0
olv54*	0.0	0.0	0.0
olv55*	0.0	0.0	0.0
olv56*	0.0	0.0	0.0
olv57*	0.0	0.0	0.0
olv58*	0.0	0.0	0.0
olv59*	0.0	0.0	0.0
olv60*	0.0	0.0	0.0
olv61*	0.0	0.0	0.0
olv62*	0.0	0.0	0.0
olv63*	0.0	0.0	0.0
olv64*	0.0	0.0	0.0
olv65*	0.0	0.0	0.0
olv66*	0.0	0.0	0.0
olv67*	0.0	0.0	0.0
olv68*	0.0	0.0	0.0
olv69*	0.0	0.0	0.0
olv70*	0.0	0.0	0.0
olv71*	0.0	0.0	0.0
olv72*	0.0	0.0	0.0
olv73*	0.0	0.0	0.0
olv74*	0.0	0.0	0.0
olv75*	0.0	0.0	0.0
olv76*	0.0	0.0	0.0
olv77*	0.0	0.0	0.0
olv78*	0.0	0.0	0.0
olv79*	0.0	0.0	0.0
olv80*	0.0	0.0	0.0
olv81*	0.0	0.0	0.0
olv82*	0.0	0.0	0.0
olv83*	0.0	0.0	0.0
olv84*	0.0	0.0	0.0
olv85*	0.0	0.0	0.0
olv86*	0.0	0.0	0.0
olv87*	0.0	0.0	0.0
olv88*	0.0	0.0	0.0
olv89*	0.0	0.0	0.0
olv90*	0.0	0.0	0.0
olv91*	0.0	0.0	0.0
olv92*	0.0	0.0	0.0
olv93*	0.0	0.0	0.0
olv94*	0.0	0.0	0.0
olv95*	0.0	0.0	0.0
olv96*	0.0	0.0	0.0
olv97*	0.0	0.0	0.0
olv98*	0.0	0.0	0.0
olv99*	0.0	0.0	0.0
olv100*	0.0	0.0	0.0

standard and adapted CIELAB

LAB*Lab	95.41	0.0	0.0
LAB*a	95.41	0.0	0.0
LAB*b	95.41	0.0	0.0
LAB*c	95.41	0.0	0.0
LAB*d	95.41	0.0	0.0
LAB*e	95.41	0.0	0.0
LAB*f	95.41	0.0	0.0
LAB*g	95.41	0.0	0.0
LAB*h	95.41	0.0	0.0
LAB*i	95.41	0.0	0.0
LAB*j	95.41	0.0	0.0
LAB*k	95.41	0.0	0.0
LAB*l	95.41	0.0	0.0
LAB*m	95.41	0.0	0.0
LAB*n	95.41	0.0	0.0
LAB*o	95.41	0.0	0.0
LAB*p	95.41	0.0	0.0
LAB*q	95.41	0.0	0.0
LAB*r	95.41	0.0	0.0
LAB*s	95.41	0.0	0.0
LAB*t	95.41	0.0	0.0
LAB*u	95.41	0.0	0.0
LAB*v	95.41	0.0	0.0
LAB*w	95.41	0.0	0.0
LAB*x	95.41	0.0	0.0
LAB*y	95.41	0.0	0.0
LAB*z	95.41	0.0	0.0
LAB*aa	95.41	0.0	0.0
LAB*ab	95.41	0.0	0.0
LAB*ac	95.41	0.0	0.0
LAB*ad	95.41	0.0	0.0
LAB*ae	95.41	0.0	0.0
LAB*af	95.41	0.0	0.0
LAB*ag	95.41	0.0	0.0
LAB*ah	95.41	0.0	0.0
LAB*ai	95.41	0.0	0.0
LAB*aj	95.41	0.0	0.0
LAB*ak	95.41	0.0	0.0
LAB*al	95.41	0.0	0.0
LAB*am	95.41	0.0	0.0
LAB*an	95.41	0.0	0.0
LAB*ao	95.41	0.0	0.0
LAB*ap	95.41	0.0	0.0
LAB*aq	95.41	0.0	0.0
LAB*ar	95.41	0.0	0.0
LAB*as	95.41	0.0	0.0
LAB*at	95.41	0.0	0.0
LAB*au	95.41	0.0	0.0
LAB*av	95.41	0.0	0.0
LAB*aw	95.41	0.0	0.0
LAB*ax	95.41	0.0	0.0
LAB*ay	95.41	0.0	0.0
LAB*az	95.41	0.0	0.0
LAB*ba	95.41	0.0	0.0
LAB*bb	95.41	0.0	0.0
LAB*bc	95.41	0.0	0.0
LAB*bd	95.41	0.0	0.0
LAB*be	95.41	0.0	0.0
LAB*bf	95.41	0.0	0.0
LAB*bg	95.41	0.0	0.0
LAB*bh	95.41	0.0	0.0
LAB*bi	95.41	0.0	0.0
LAB*bj	95.41	0.0	0.0
LAB*bk	95.41	0.0	0.0
LAB*bl	95.41	0.0	0.0
LAB*bm	95.41	0.0	0.0
LAB*bn	95.41	0.0	0.0
LAB*bo	95.41	0.0	0.0
LAB*bp	95.41	0.0	0.0
LAB*bq	95.41	0.0	0.0
LAB*br	95.41	0.0	0.0
LAB*bs	95.41	0.0	0.0
LAB*bt	95.41	0.0	0.0
LAB*bu	95.41	0.0	0.0
LAB*bv	95.41	0.0	0.0
LAB*bw	95.41	0.0	0.0
LAB*bx	95.41	0.0	0.0
LAB*by	95.41	0.0	0.0
LAB*bz	95.41	0.0	0.0
LAB*ca	95.41	0.0	0.0
LAB*cb	95.41	0.0	0.0
LAB*cc	95.41	0.0	0.0
LAB*cd	95.41	0.0	0.0
LAB*ce	95.41	0.0	0.0
LAB*cf	95.41	0.0	0.0
LAB*cg	95.41	0.0	0.0
LAB*ch	95.41	0.0	0.0
LAB*ci	95.41	0.0	0.0
LAB*cj	95.41	0.0	0.0
LAB*ck	95.41	0.0	0.0
LAB*cl	95.41	0.0	0.0
LAB*cm	95.41	0.0	0.0
LAB*cn	95.41	0.0	0.0
LAB*co	95.41	0.0	0.0
LAB*cp	95.41	0.0	0.0
LAB*cq	95.41	0.0	0.0
LAB*cr	95.41	0.0	0.0
LAB*cs	95.41	0.0	0.0
LAB*ct	95.41	0.0	0.0
LAB*cu	95.41	0.0	0.0
LAB*cv	95.41	0.0	0.0
LAB*cw	95.41	0.0	0.0
LAB*cx	95.41	0.0	0.0
LAB*cy	95.41	0.0	0.0
LAB*cz	95.41	0.0	0.0
LAB*da	95.41	0.0	0.0
LAB*db	95.41	0.0	0.0
LAB*dc	95.41	0.0	0.0
LAB*dd	95.41	0.0	0.0
LAB*de	95.41	0.0	0.0
LAB*df	95.41	0.0	0.0
LAB*dg	95.41	0.0	0.0
LAB*dh	95.41	0.0	0.0
LAB*di	95.41	0.0	0.0
LAB*dj	95.41	0.0	0.0
LAB*dk	95.41	0.0	0.0
LAB*dl	95.41	0.0	0.0
LAB*dm	95.41	0.0	0.0
LAB*dn	95.41	0.0	0.0
LAB*do	95.41	0.0	0.0
LAB*dp	95.41	0.0	0.0
LAB*dq	95.41	0.0	0.0
LAB*dr	95.41	0.0	0.0
LAB*ds	95.41	0.0	0.0
LAB*dt	95.41	0.0	0.0
LAB*du	95.41	0.0	0.0
LAB*dv	95.41	0.0	0.0
LAB*dw	95.41	0.0	0.0
LAB*dx	95.41	0.0	0.0
LAB*dy	95.41	0.0	0.0
LAB*dz	95.41	0.0	0.0
LAB*ea	95.41	0.0	0.0
LAB*eb	95.41	0.0	0.0
LAB*ec	95.41	0.0	0.0
LAB*ed	95.41	0.0	0.0
LAB*ee	95.41	0.0	0.0
LAB*ef	95.41	0.0	0.0
LAB*eg	95.41	0.0	0.0
LAB*eh	95.41	0.0	0.0
LAB*ei	95.41	0.0	0.0
LAB*ej	95.41	0.0	0.0
LAB*ek	95.41	0.0	0.0
LAB*el	95.41	0.0	0.0
LAB*em	95.41	0.0	0.0
LAB*en	95.41	0.0	0.0
LAB*eo	95.41	0.0	0.0
LAB*ep	95.41	0.0	0.0
LAB*eq	95.41	0.0	0.0
LAB*er	95.41	0.0	0.0
LAB*es	95.41	0.0	0.0
LAB*et	95.41	0.0	0.0
LAB*eu	95.41	0.0	0.0
LAB*ev	95.41	0.0	0.0
LAB*ew	95.41	0.0	0.0
LAB*ex	95.41	0.0	0.0
LAB*ey	95.41	0.0	0.0
LAB*ez	95.41	0.0	0.0
LAB*fa	95.41	0.0	0.0
LAB*fb	95.41	0.0	0.0
LAB*fc	95.41	0.0	0.0
LAB*fd	95.41	0.0	0.0
LAB*fe	95.41	0.0	0.0
LAB*ff	95.41	0.0	0.0
LAB*fg	95.41	0.0	0.0
LAB*fh	95.41	0.0	0.0
LAB*fi	95.41	0.0	0.0
LAB*fj	95.41	0.0	0.0
LAB*fk	95.41	0.0	0.0
LAB*fl	95.41	0.0	0.0
LAB*fm	95.41	0.0	0.0
LAB*fn	95.41	0.0	0.0
LAB*fo	95.41	0.0	0.0
LAB*fp	95.41	0.0	0.0
LAB*fq	95.41	0.0	0.0
LAB*fr	95.41	0.0	0.0
LAB*fs	95.41	0.0	0.0
LAB*ft	95.41	0.0	0.0
LAB*fu	95.41	0.0	0.0
LAB*fv	95.41	0.0	0.0
LAB*fw	95.41	0.0	0.0
LAB*fx	95.41	0.0	0.0
LAB*fy	95.41	0.0	0.0
LAB*fz	95.41	0.0	0.0
LAB*ga	95.41	0.0	0.0
LAB*gb	95.41	0.0	0.0
LAB*gc	95.41	0.0	0.0
LAB*gd	95.41	0.0	0.0
LAB*ge	95.41	0.0	0.0
LAB*gf	95.41	0.0	0.0
LAB*gg	95.41	0.0	0.0
LAB*gh	95.41	0.0	0.0
LAB*gi	95.41	0.0	0.0
LAB*gj	95.41	0.0	0.0
LAB*gk	95.41	0.0	0.0
LAB*gl	95.41	0.0	0.0
LAB*gm	95.41	0.0	0.0
LAB*gn	95.41	0.0	0.0
LAB*go	95.41	0.0	0.0
LAB*gp	95.41	0.0	0.0
LAB*gq	95.41	0.0	0.0
LAB*gr	95.41	0.0	0.0
LAB*gs	95.41	0.0	0.0
LAB*gt	95.41	0.0	0.0
LAB*gu	95.41	0.0	0.0
LAB*gv	95.41	0.0	0.0
LAB*gw	95.41	0.0	0.0
LAB*gx	95.41	0.0	0.0
LAB*gy	95.41	0.0	0.0
LAB*gz	95.41	0.0	0.0
LAB*ha	95.41	0.0	0.0
LAB*hb	95.41	0.0	0.0
LAB*hc	95.41	0.0	0.0
LAB*hd	95.41	0.0	0.0</

