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NATA

LumCAT: 2-1742-M
Luminaire: 92.70.136.00
Report No: NATA0100
Test No: GC2019021913
LampCAT: BRIDGELUX V22B
Lamp flux(lm): 6644.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 50.5400
Current(A): 0.9000
Power (W): 45.4860
PF: 0.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 5794.87
Efficiency(%): 87.22%
Lumens(lm)/Power(W): 128.63
Central intensity(cd): 10314.700
Maximum intensity(cd): 10314.700
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=42.5
 [C90/270]Total=42.5
Field angle(10%Imax): [C0/180]Total=73.2
 [C90/270]Total=73.2
Maximum s/h(1/2): C0_180=0.69 C90_270=0.69
Maximum s/h(1/4): C0_180=0.67 C90_270=0.67
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.06%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.847%

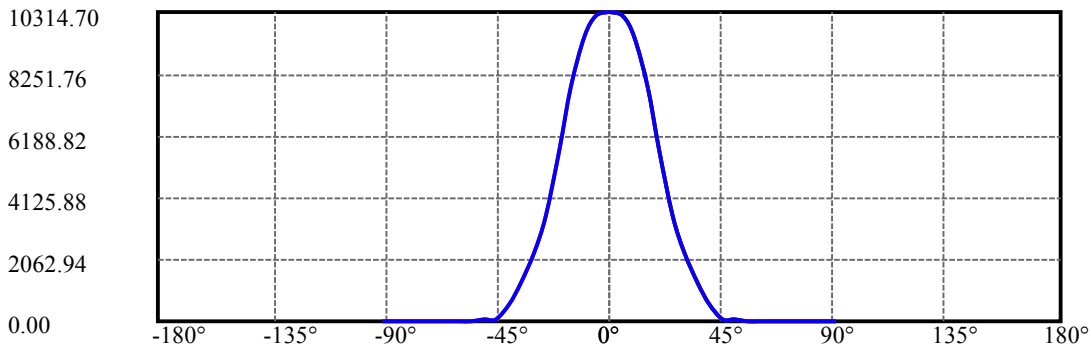
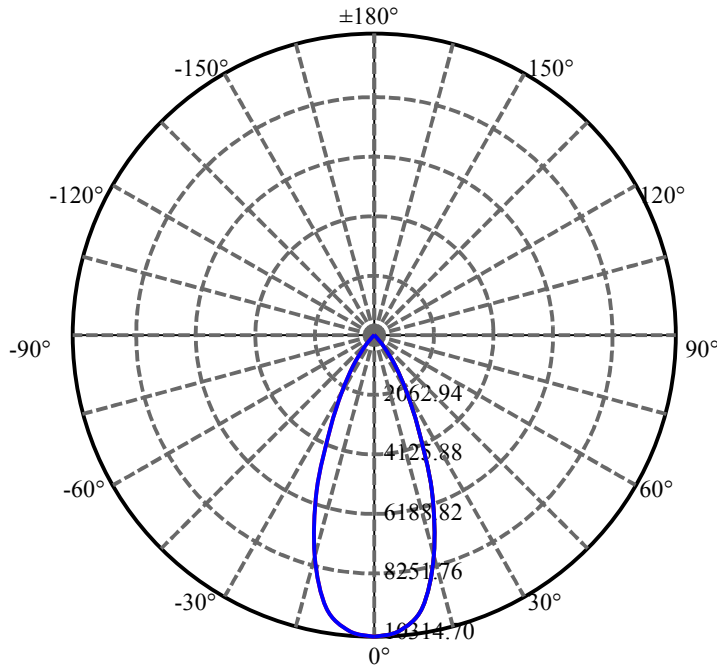
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10314.703	61.684	61.684	.928%	1.064%
5.0	10173.867	486.039	547.723	7.315%	9.452%
10.0	9461.320	900.557	1448.281	13.554%	24.992%
15.0	7790.273	1105.194	2553.474	16.634%	44.064%
20.0	5685.820	1065.944	3619.418	16.044%	62.459%
25.0	3530.461	817.841	4437.259	12.309%	76.572%
30.0	2280.797	625.095	5062.354	9.408%	87.359%
35.0	1255.852	394.838	5457.193	5.943%	94.173%
40.0	549.745	193.695	5650.888	2.915%	97.515%
45.0	88.741	34.395	5685.283	.518%	98.109%
50.0	32.780	13.764	5699.047	.207%	98.346%
55.0	29.271	13.143	5712.19	.198%	98.573%
60.0	27.127	12.877	5725.067	.194%	98.795%
65.0	25.664	12.749	5737.816	.192%	99.016%
70.0	24.708	12.727	5750.543	.192%	99.235%
75.0	23.977	12.695	5763.238	.191%	99.454%
80.0	23.534	12.704	5775.941	.191%	99.673%
85.0	23.252	12.697	5788.638	.191%	99.893%
90.0	22.725	6.228	5794.867	.094%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	5062.35	76.19%	87.36%
0-40	5650.89	85.05%	97.52%
0-60	5725.07	86.17%	98.80%
0-90	5788.64	87.13%	99.89%
0-120	5788.64	87.13%	99.89%
0-180	5794.87	87.22%	100.00%
60-90	76.45	1.15%	1.32%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.59	4635.89	69.78%	80.00%

ZONAL LUMEN SUMMARY

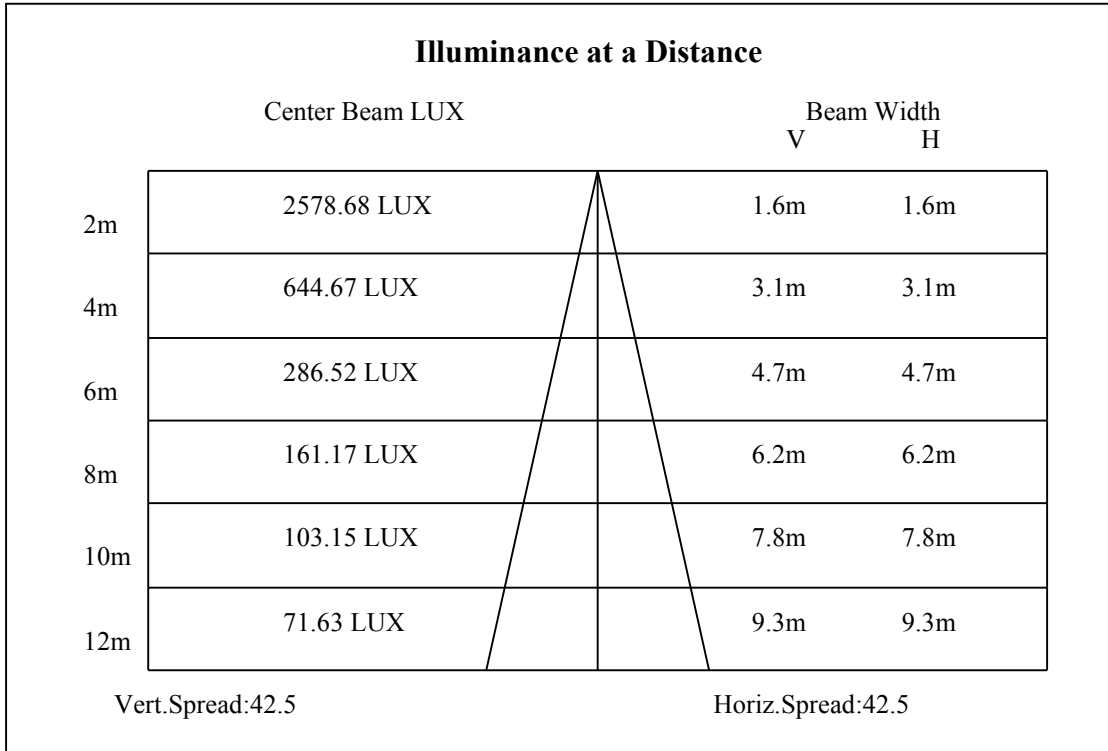
0-10	1448.28
10-20	2171.14
20-30	1442.94
30-40	588.53
40-50	48.16
50-60	26.02
60-70	25.48
70-80	25.40
80-90	12.70
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

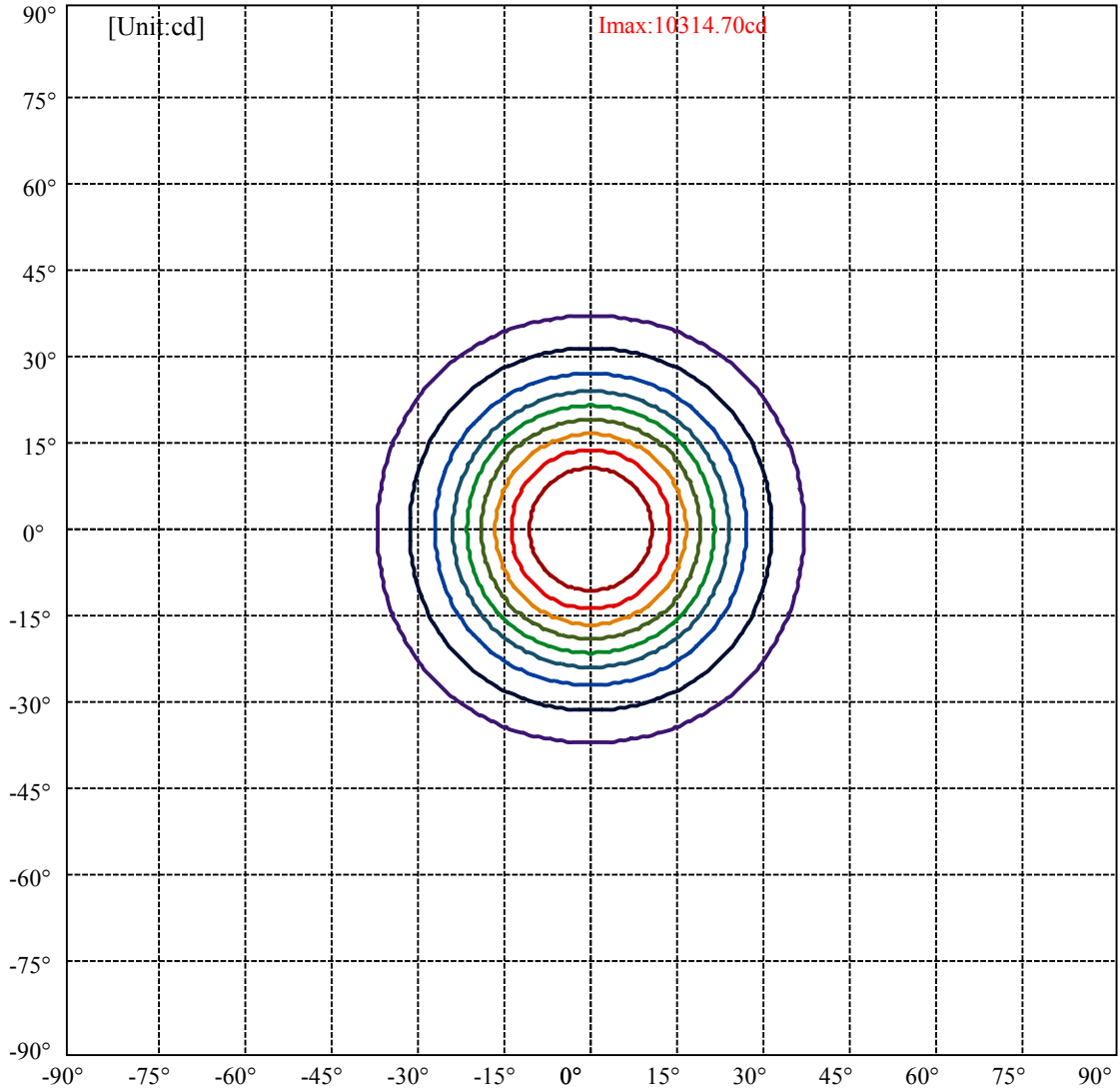


C0(Max): —————
C0/C180: —————
C90/C270: —————

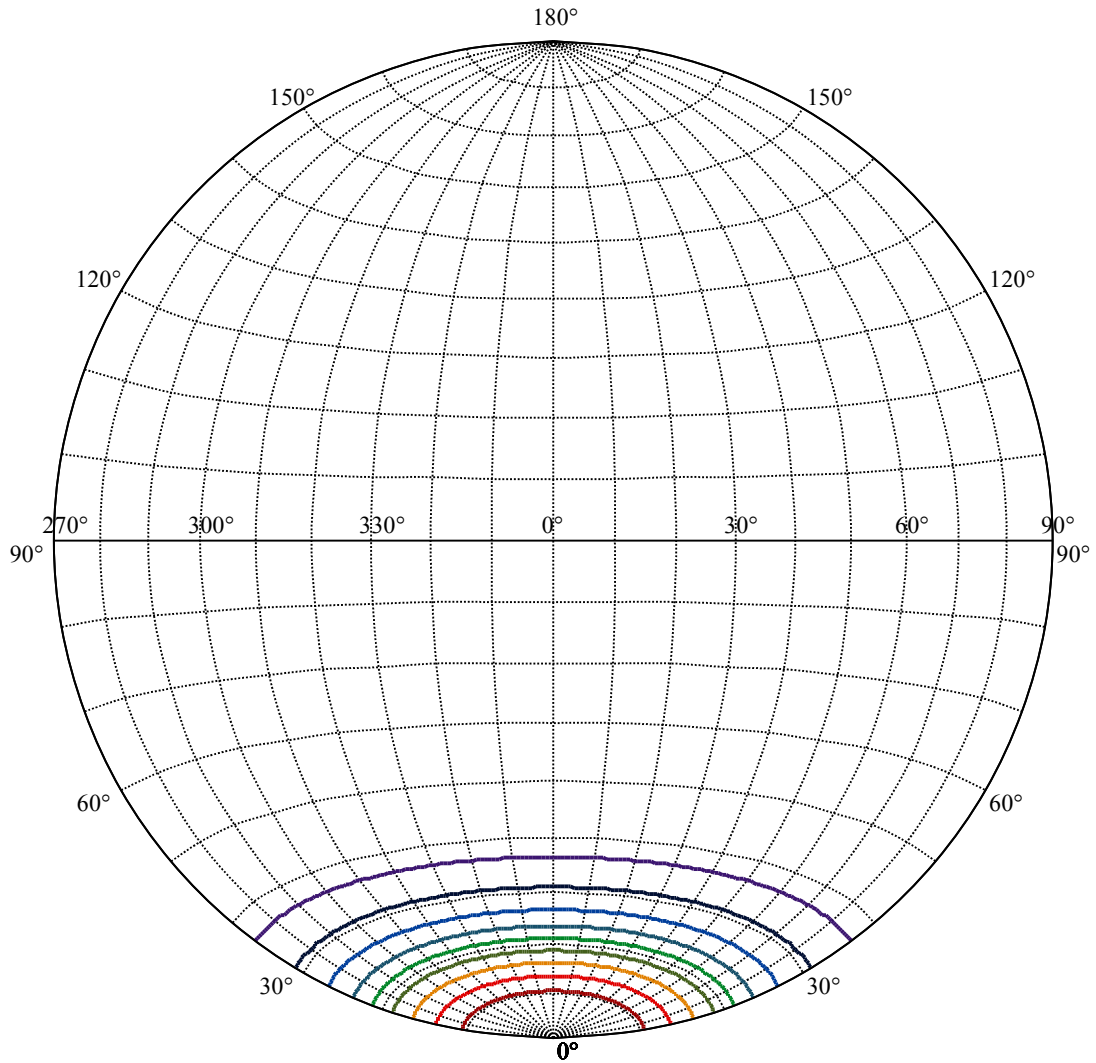
Field angle(10%Imax):C0/180Left:36.6 Right:36.6
:C90/270Left:36.6 Right:36.6

Beam Angle(50%Imax):C0/180Left:21.2 Right:21.2
:C90/270Left:21.2 Right:21.2





(10%Imax) 1031.47	—
(20%Imax) 2062.94	—
(30%Imax) 3094.41	—
(40%Imax) 4125.88	—
(50%Imax) 5157.35	—
(60%Imax) 6188.82	—
(70%Imax) 7220.29	—
(80%Imax) 8251.76	—
(90%Imax) 9283.23	—



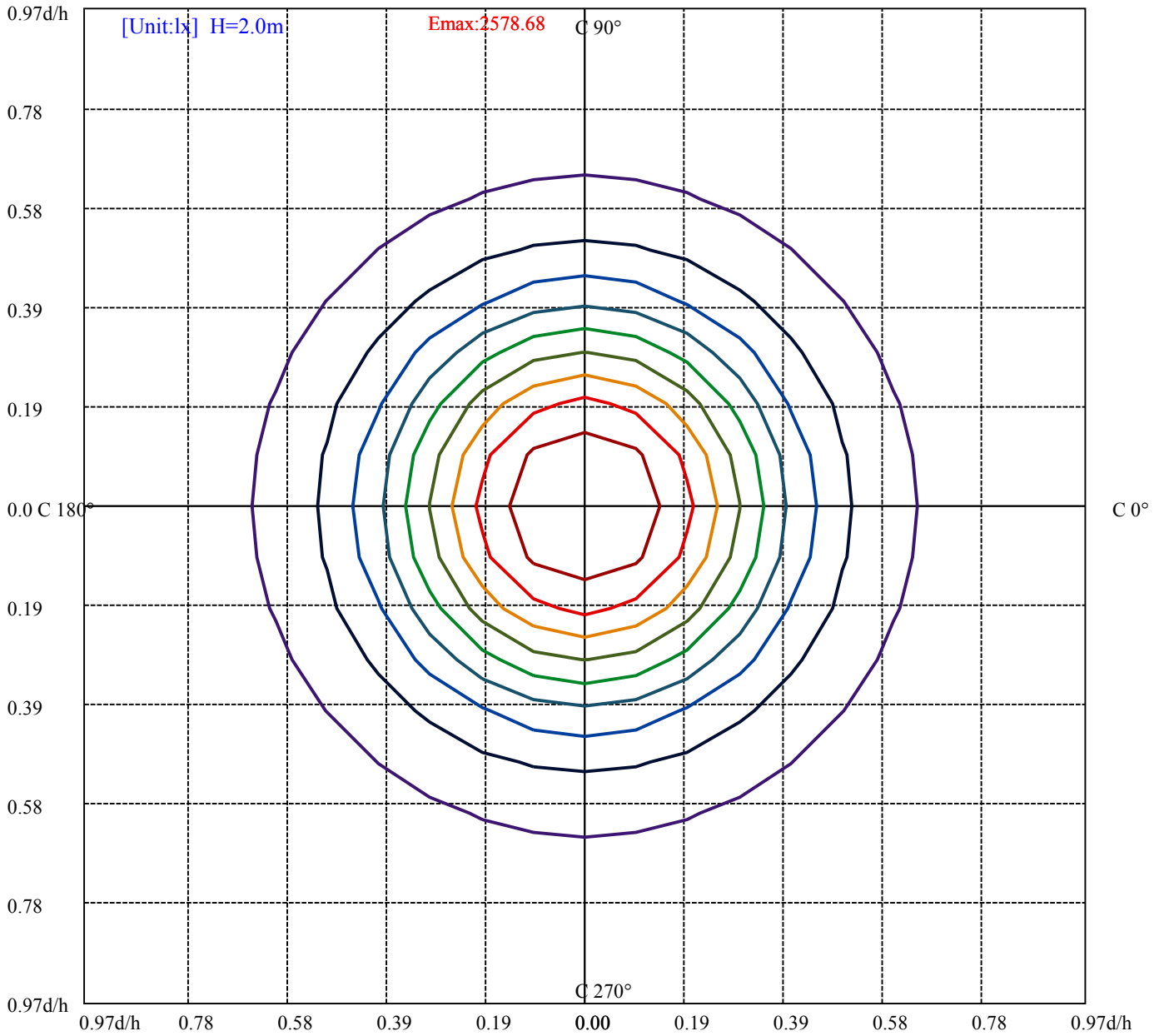
House

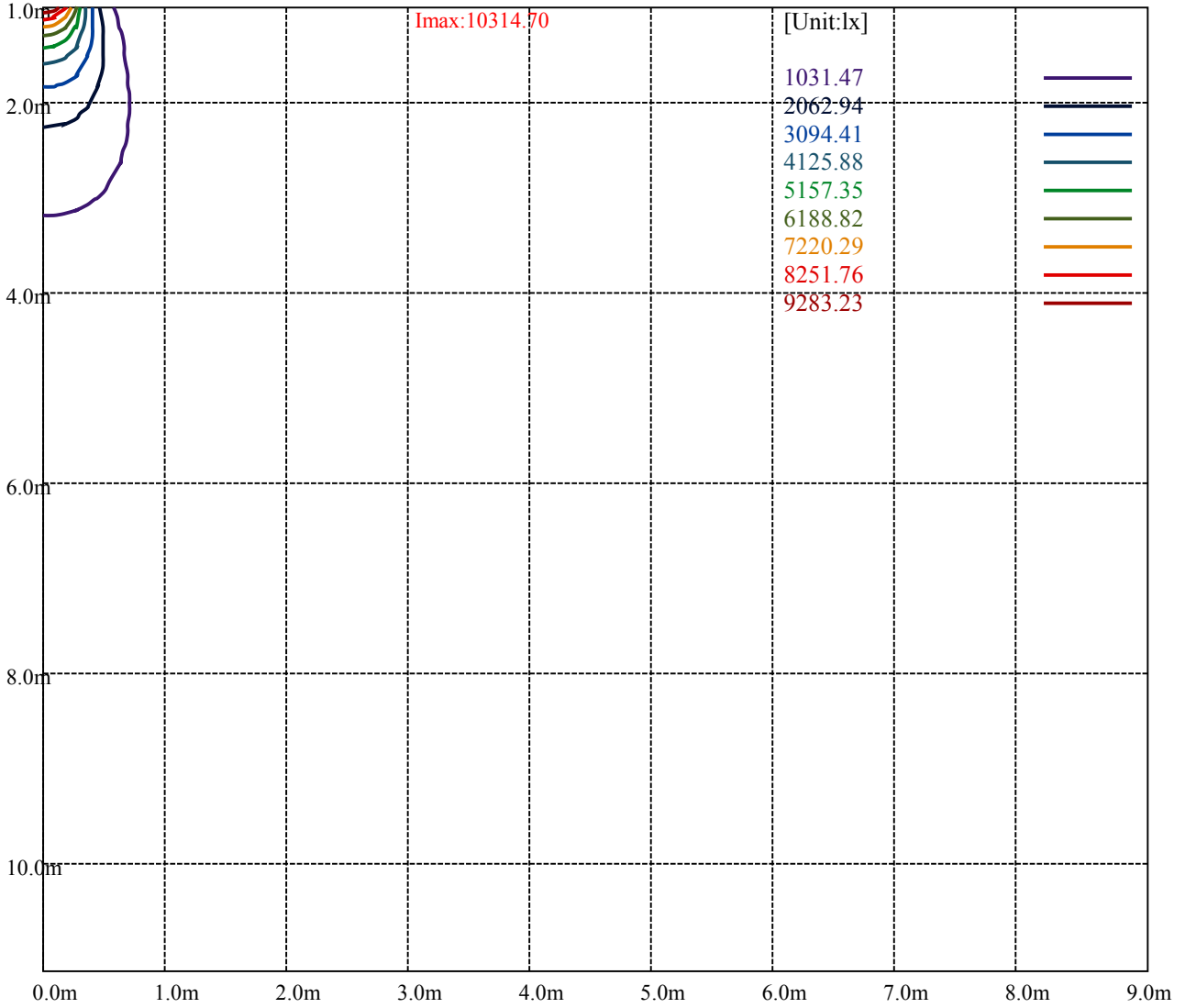
[Unit:cd]

Road

Imax:10314.70

(10%Imax)	1031.47	—
(20%Imax)	2062.94	—
(30%Imax)	3094.41	—
(40%Imax)	4125.88	—
(50%Imax)	5157.35	—
(60%Imax)	6188.82	—
(70%Imax)	7220.29	—
(80%Imax)	8251.76	—
(90%Imax)	9283.23	—





Luminance Table

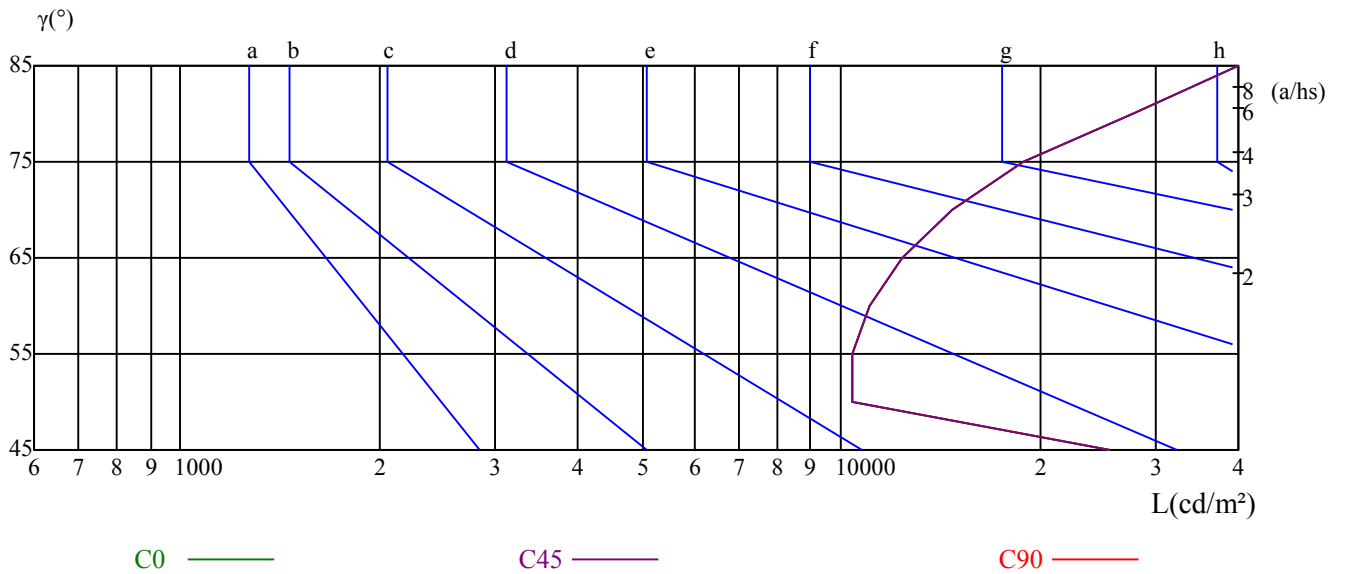
γ	45	50	55	60	65	70	75	80	85
C0	25612	10407	10415	11072	12393	14743	18906	27658	54447
C45	25612	10407	10415	11072	12393	14743	18906	27658	54447
C90	25612	10407	10415	11072	12393	14743	18906	27658	54447

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
12393	12393	12393	18906	18906	18906	54447	54447	54447

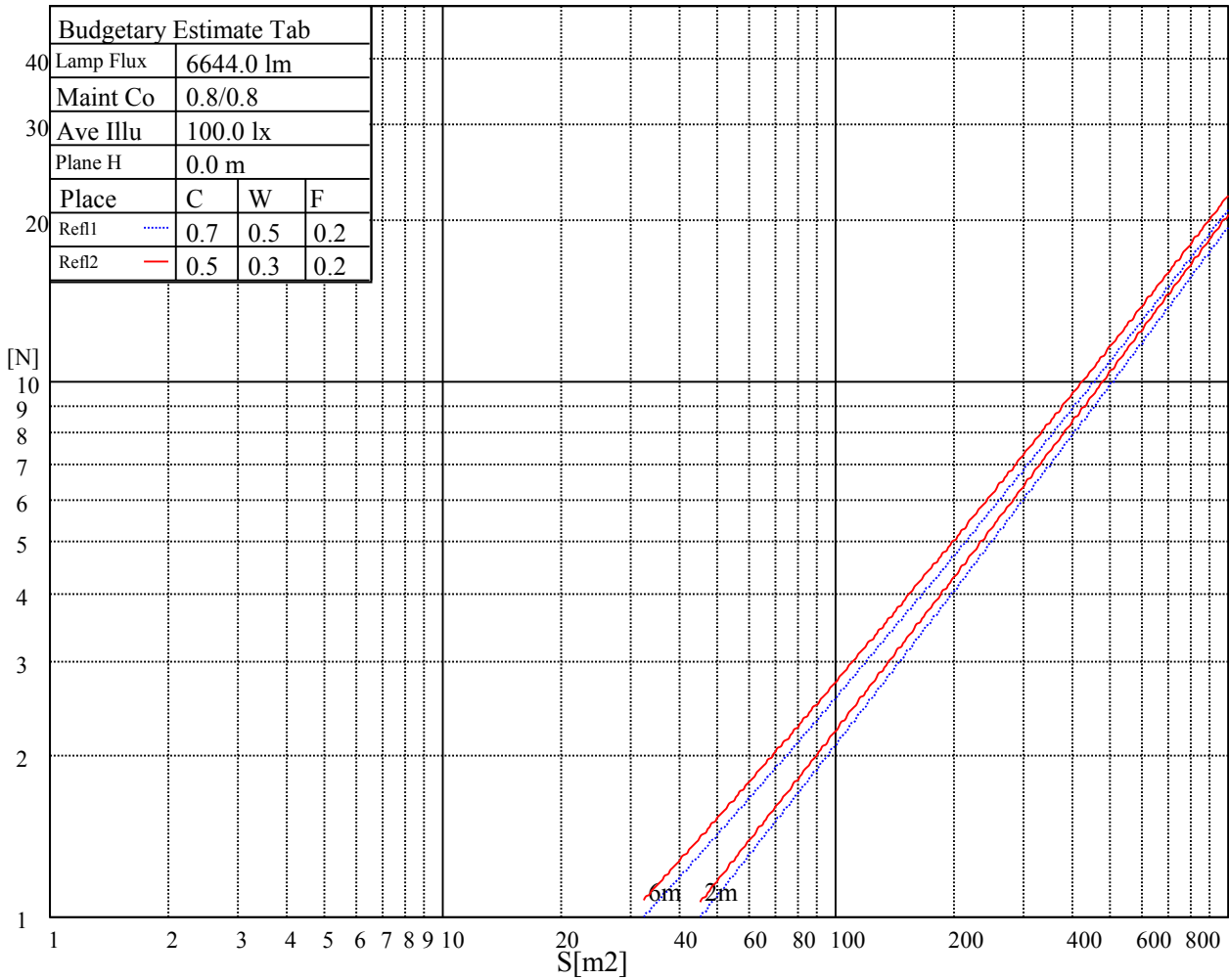
Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

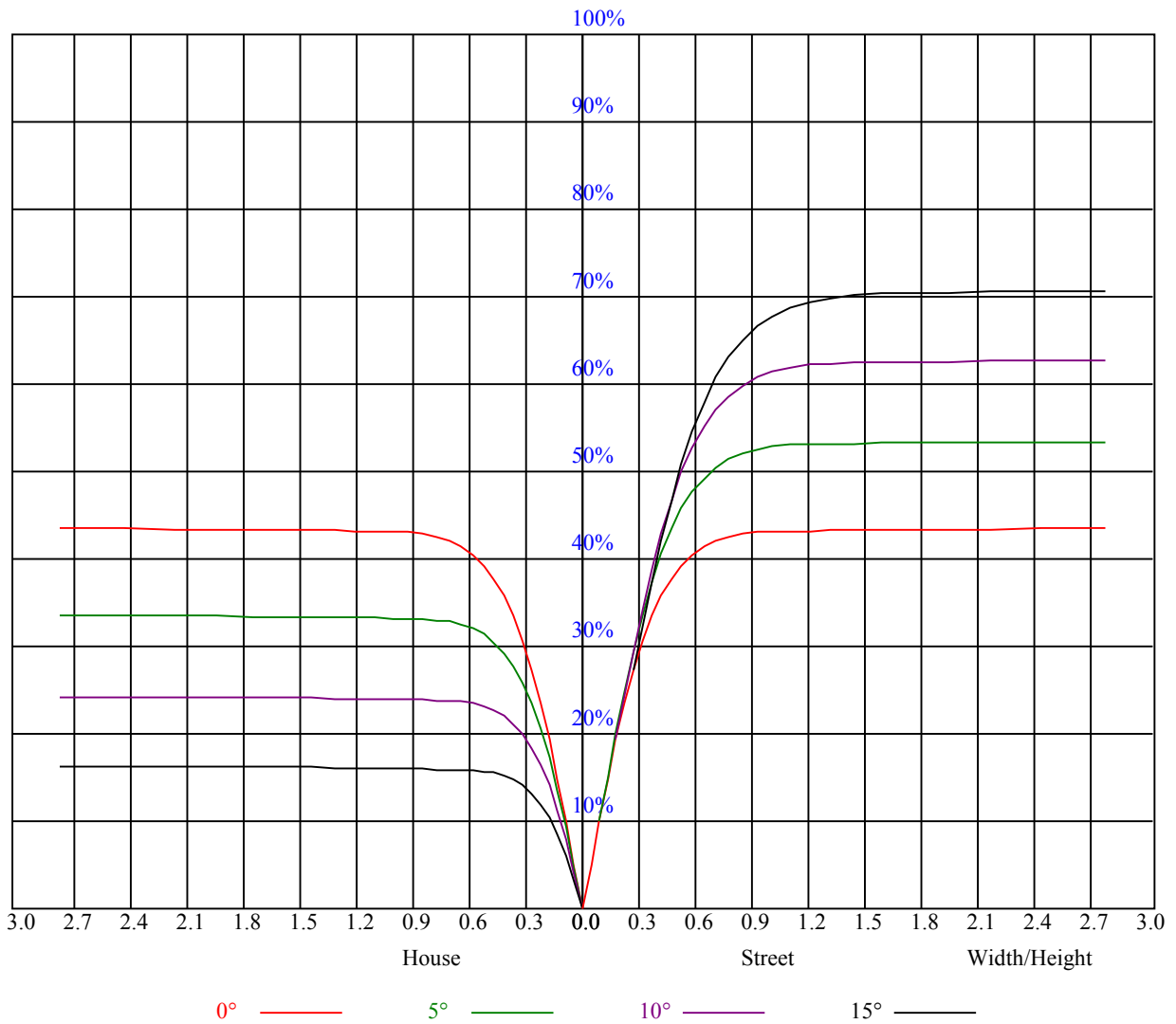
Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	2.95	3.87	3.32	4.18	4.50	3.01	3.93	3.38	4.24	4.56
	3H	5.94	6.76	6.33	7.09	7.46	6.02	6.83	6.40	7.16	7.53
	4H	7.61	8.36	8.02	8.71	9.10	7.65	8.40	8.05	8.75	9.14
	6H	9.50	10.19	9.92	10.56	10.96	9.53	10.21	9.95	10.59	10.99
	8H	10.56	11.20	11.00	11.60	12.01	10.58	11.22	11.02	11.62	12.03
	12H	12.30	12.91	12.73	13.30	13.73	12.29	12.91	12.73	13.29	13.72
4H	2H	3.79	4.54	4.20	4.90	5.29	3.84	4.59	4.24	4.94	5.33
	3H	7.05	7.67	7.47	8.08	8.48	7.10	7.72	7.52	8.13	8.54
	4H	8.89	9.44	9.33	9.87	10.31	8.91	9.46	9.35	9.88	10.33
	6H	10.93	11.41	11.41	11.86	12.33	10.95	11.42	11.42	11.87	12.35
	8H	12.10	12.54	12.58	12.99	13.47	12.11	12.55	12.59	13.00	13.48
8H	12H	13.75	14.13	14.24	14.62	15.10	13.74	14.12	14.23	14.60	15.08
	4H	9.59	10.02	10.06	10.48	10.95	9.60	10.04	10.08	10.49	10.97
	6H	11.91	12.26	12.42	12.76	13.25	11.93	12.28	12.44	12.78	13.27
	8H	13.27	13.58	13.81	14.10	14.60	13.28	13.59	13.82	14.11	14.61
12H	12H	15.07	15.33	15.59	15.83	16.41	15.06	15.32	15.58	15.82	16.40
	4H	9.79	10.16	10.28	10.65	11.13	9.80	10.17	10.29	10.66	11.14
	6H	12.43	12.53	12.76	13.00	13.55	12.45	12.55	12.78	13.02	13.57
	8H	13.71	13.97	14.23	14.47	15.05	13.72	13.99	14.25	14.48	15.07
Variation with the observer position at spacings:											
S = 1.0H	5.1/-7.6					5.1/-7.6					
S = 1.5H	7.3/-5.8					7.3/-5.8					
S = 2.0H	8.7/-4.4					8.7/-4.4					
Standard tables:	BK2					BK2					
Uncorrected UGR	4.8					4.8					



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.05	1.05	1.05	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.97	0.95	0.93	0.95	0.93	0.92	0.92	0.90	0.89	0.89	0.87	0.86	0.85	0.84	0.84	0.82
2	0.92	0.88	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.81	0.82	0.81	0.79	0.78
3	0.87	0.83	0.80	0.86	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.76	0.74
4	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.71	0.68	0.75	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.65	0.62	0.69	0.64	0.62	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.57
10	0.64	0.60	0.57	0.64	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.59	0.56	0.55



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	10317.38	10203.75	9656.44	8155.69	6226.31	3926.81	2519.44	1468.69	690.19
45.0	10310.63	10218.38	9675.56	8120.25	6113.81	3828.38	2411.44	1409.63	612.00
90.0	10312.88	10170.56	9324.00	7511.06	5231.25	3256.31	2091.38	1111.33	466.88
135.0	10317.94	10175.63	9491.06	7758.56	5550.75	3456.00	2276.44	1324.13	582.75
180.0	10317.38	10135.13	9207.00	7357.50	5205.94	3174.19	2007.00	1099.24	403.03
225.0	10310.63	10158.19	9330.75	7572.38	5507.44	3370.50	2135.81	1085.06	431.44
270.0	10312.88	10197.56	9608.06	8133.75	6063.19	3804.19	2497.50	1455.75	657.00
315.0	10317.94	10131.75	9397.69	7713.00	5587.88	3427.31	2307.38	1092.99	554.68
360.0	10317.38	10203.75	9656.44	8155.69	6226.31	3926.81	2519.44	1468.69	690.19

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	160.48	34.26	30.21	27.79	25.99	24.98	24.08	23.63	23.18
45.0	75.66	33.92	30.15	27.62	25.99	24.81	23.96	23.40	22.95
90.0	56.76	31.33	28.46	26.55	25.26	24.41	23.85	23.51	23.29
135.0	65.76	31.56	28.46	26.66	25.37	24.53	23.85	23.34	23.12
180.0	52.26	32.01	28.91	26.94	25.71	24.81	24.02	23.74	23.34
225.0	54.84	32.96	29.36	27.23	25.82	24.81	24.02	23.51	23.29
270.0	171.96	33.69	29.53	27.28	25.76	24.81	24.13	23.68	23.63
315.0	72.23	32.51	29.08	26.94	25.43	24.53	23.91	23.46	23.23
360.0	160.48	34.26	30.21	27.79	25.99	24.98	24.08	23.63	23.18

C/γ(°)	90.0
0.0	22.89
45.0	22.67
90.0	22.67
135.0	22.67
180.0	22.78
225.0	22.67
270.0	22.67
315.0	22.78
360.0	22.89