



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: 2-2182-M	
Luminaire: BJB 47.360.1010	
Report No: NATA0100	Voltage(V): 34.7500
Test No: GC2020021302	Current(A): 0.5970
LampCAT: BRIDGELUX V13B	Power (W): 20.7000
Lamp flux(lm): 2986.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2452.10
Efficiency(%): 82.12%
Lumens(lm)/Power(W): 118.46
Central intensity(cd): 6979.641
Maximum intensity(cd): 6979.641
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=35.1
 [C90/270]Total=35.1
Field angle(10%Imax): [C0/180]Total=54.8
 [C90/270]Total=54.8
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.12%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.407%

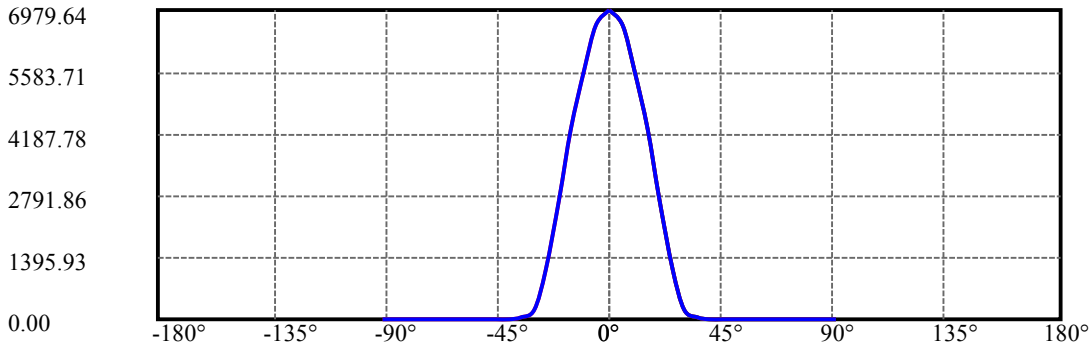
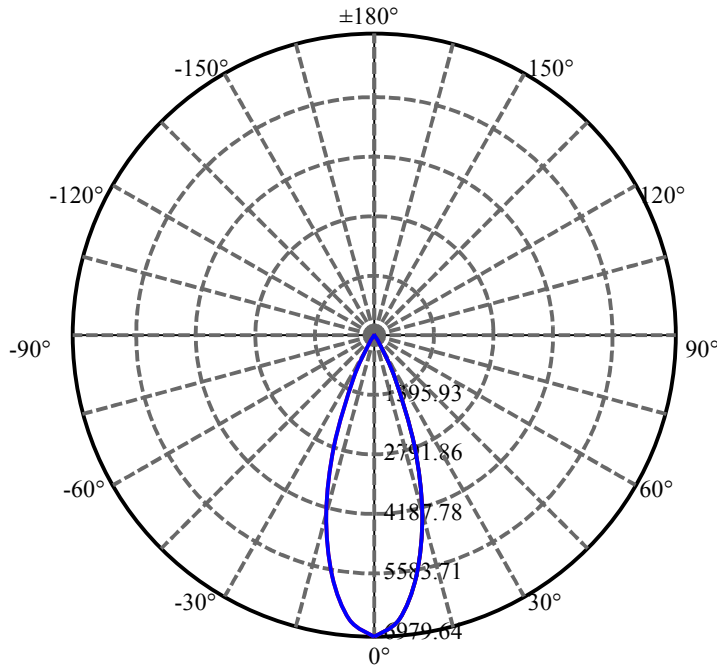
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6979.641	0.000	0	.000%	.000%
5.0	6617.813	162.554	162.554	5.444%	6.629%
10.0	5642.297	438.583	601.136	14.688%	24.515%
15.0	4294.477	589.443	1190.579	19.740%	48.553%
20.0	2729.180	578.848	1769.427	19.385%	72.160%
25.0	1122.616	403.982	2173.409	13.529%	88.635%
30.0	231.258	171.334	2344.743	5.738%	95.622%
35.0	26.205	37.913	2382.657	1.270%	97.168%
40.0	15.898	7.025	2389.681	.235%	97.454%
45.0	14.414	5.612	2395.294	.188%	97.683%
50.0	13.809	5.703	2400.997	.191%	97.916%
55.0	13.338	5.903	2406.899	.198%	98.157%
60.0	13.177	6.129	2413.028	.205%	98.407%
65.0	13.732	6.542	2419.57	.219%	98.673%
70.0	15.082	7.296	2426.866	.244%	98.971%
75.0	12.565	7.226	2434.092	.242%	99.266%
80.0	11.229	6.367	2440.459	.213%	99.525%
85.0	10.702	5.959	2446.418	.200%	99.768%
90.0	10.055	5.683	2452.101	.190%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2344.74	78.52%	95.62%
0-40	2389.68	80.03%	97.45%
0-60	2413.03	80.81%	98.41%
0-90	2446.42	81.93%	99.77%
0-120	2446.42	81.93%	99.77%
0-180	2452.10	82.12%	100.00%
60-90	39.52	1.32%	1.61%
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%
0-22.38	1961.68	65.70%	80.00%

ZONAL LUMEN SUMMARY

0-10	601.14
10-20	1168.29
20-30	575.32
30-40	44.94
40-50	11.32
50-60	12.03
60-70	13.84
70-80	13.59
80-90	5.96
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: —————

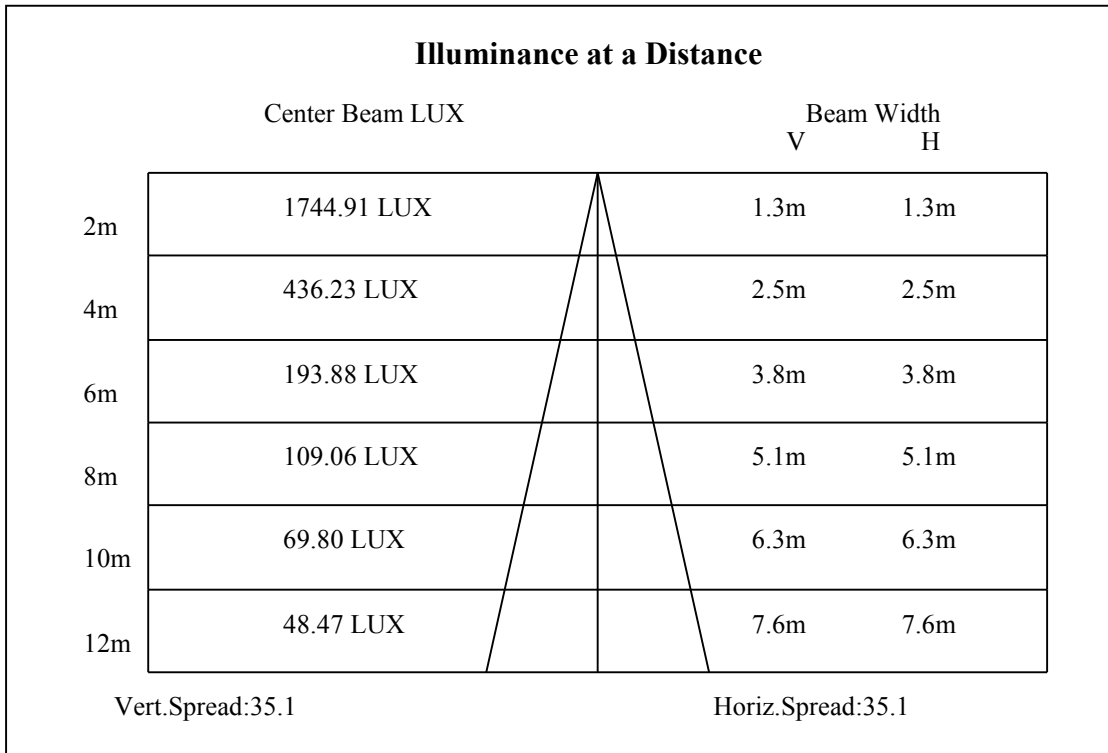
C90/C270: —————

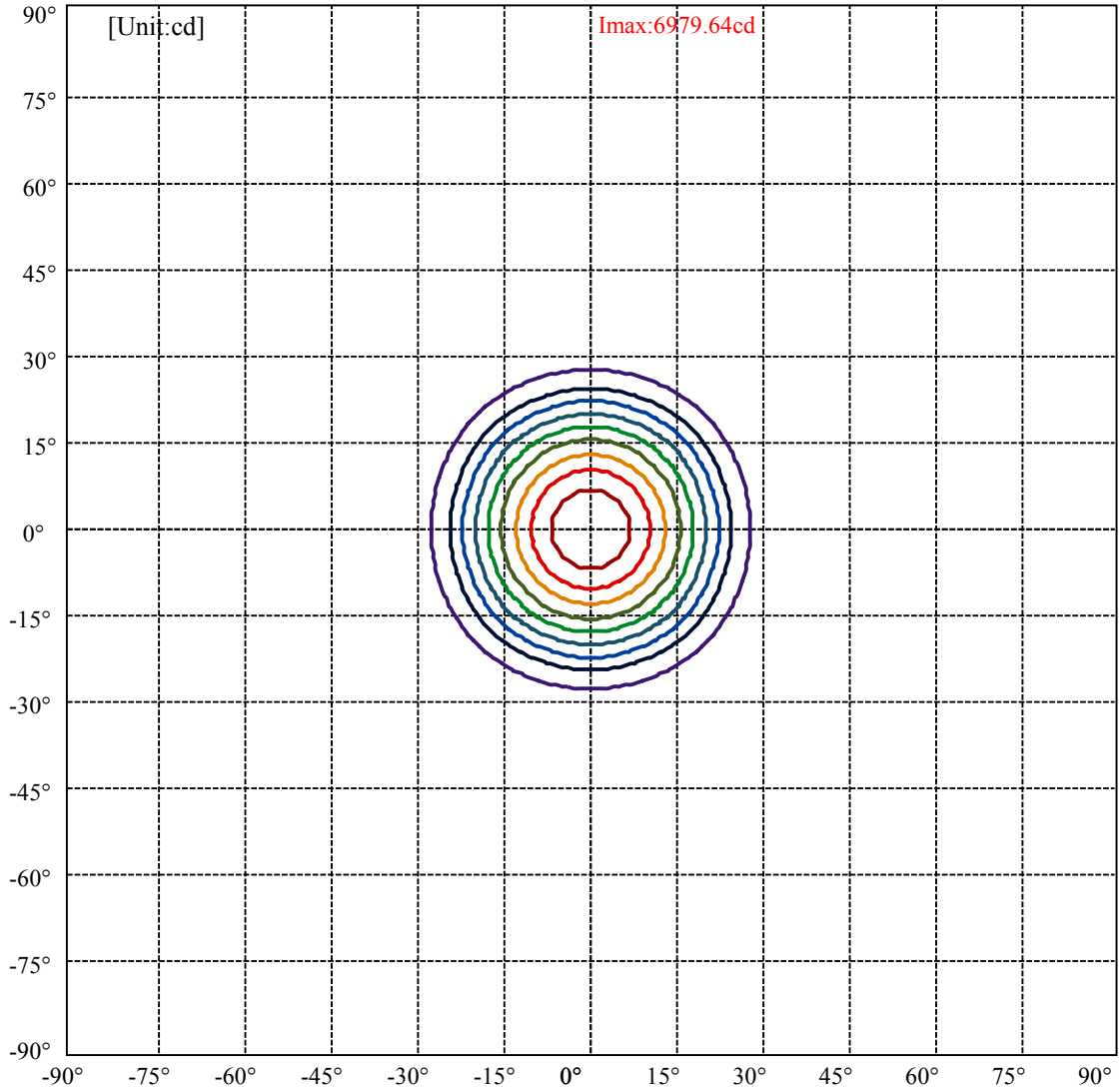
Field angle(10%Imax):C0/180Left:27.4 Right:27.4

:C90/270Left:27.4 Right:27.4

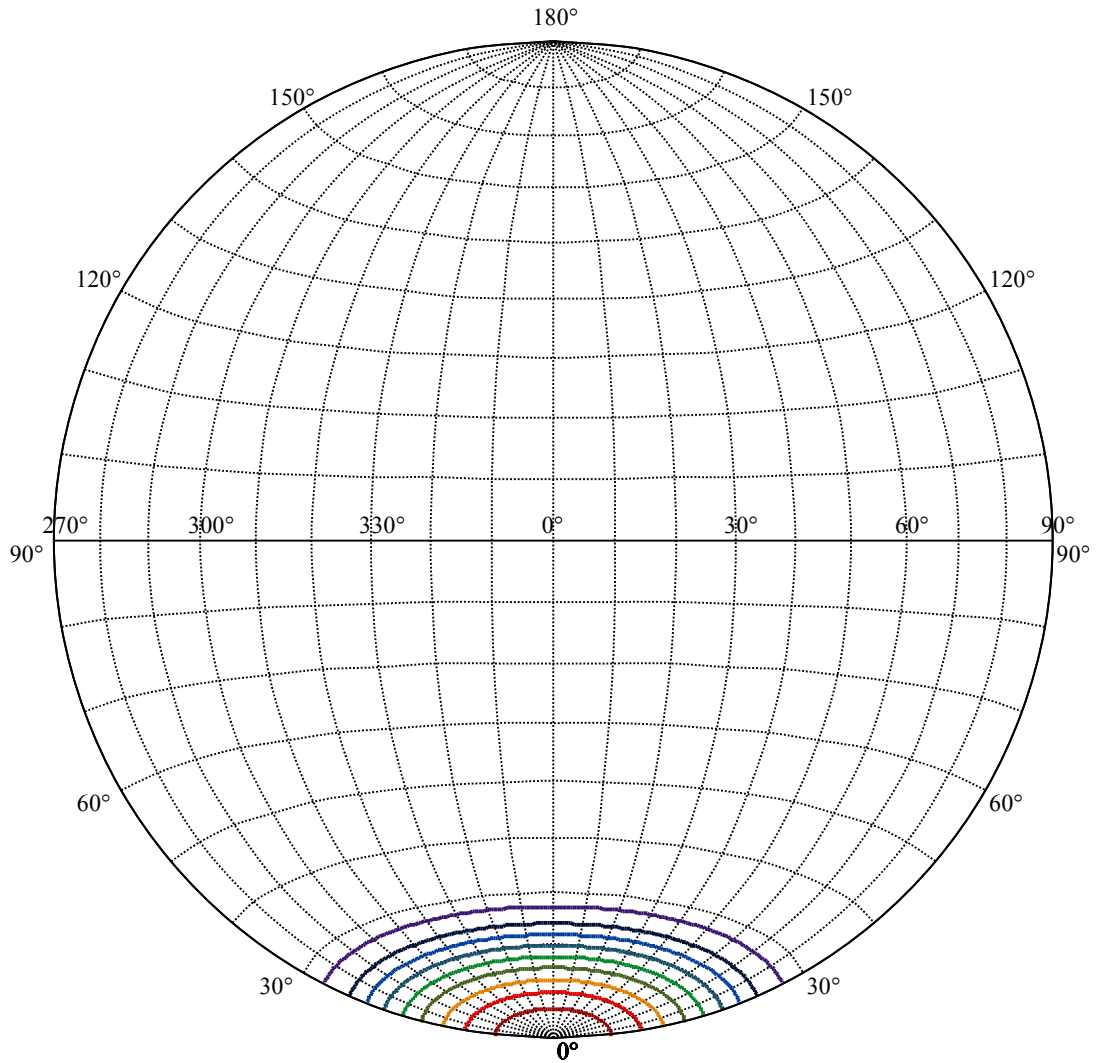
Beam Angle(50%Imax):C0/180Left:17.6 Right:17.6

:C90/270Left:17.6 Right:17.6





(10%Imax) 697.964	—
(20%Imax) 1395.93	—
(30%Imax) 2093.89	—
(40%Imax) 2791.86	—
(50%Imax) 3489.82	—
(60%Imax) 4187.78	—
(70%Imax) 4885.75	—
(80%Imax) 5583.71	—
(90%Imax) 6281.68	—



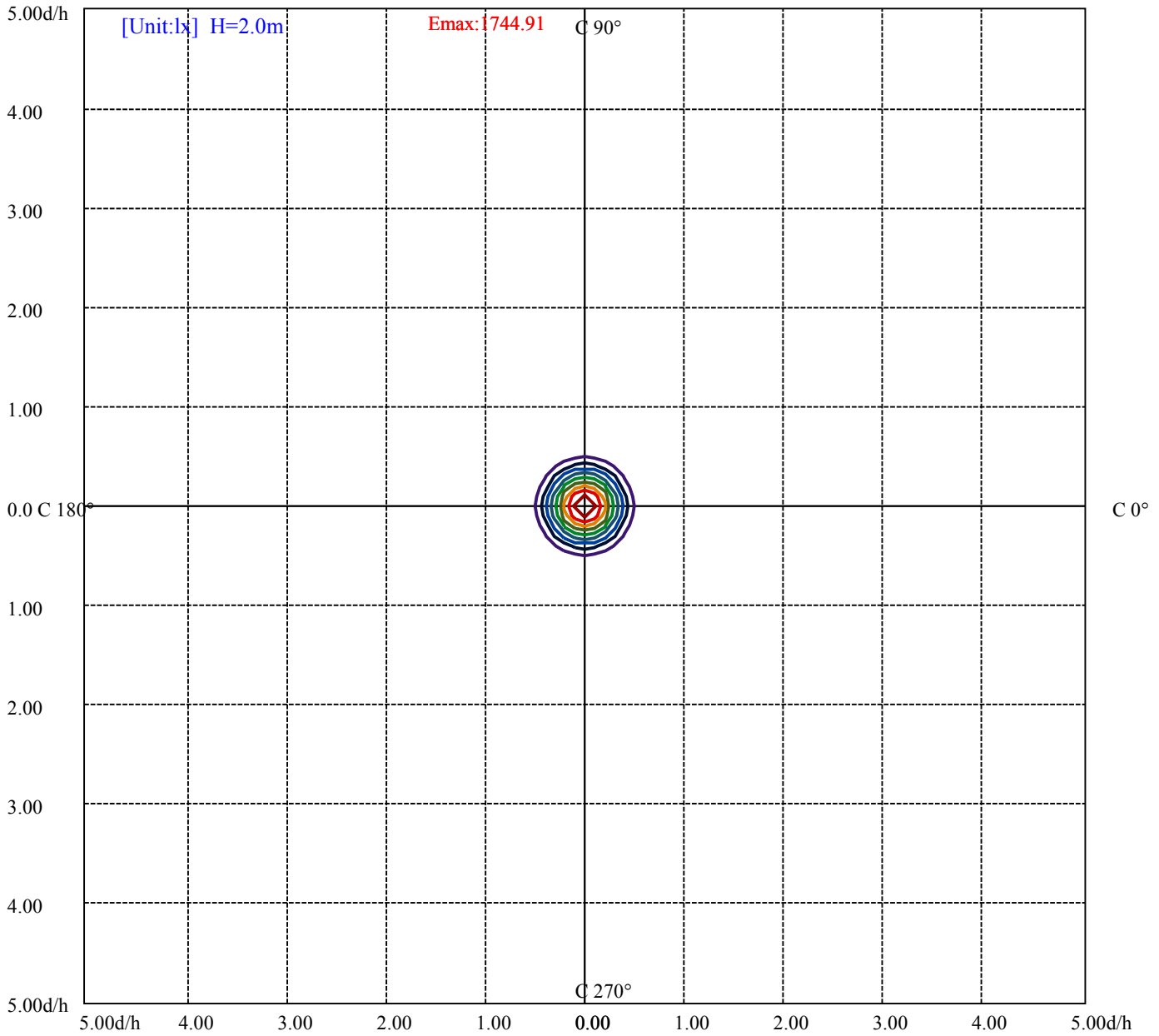
House

[Unit:cd]

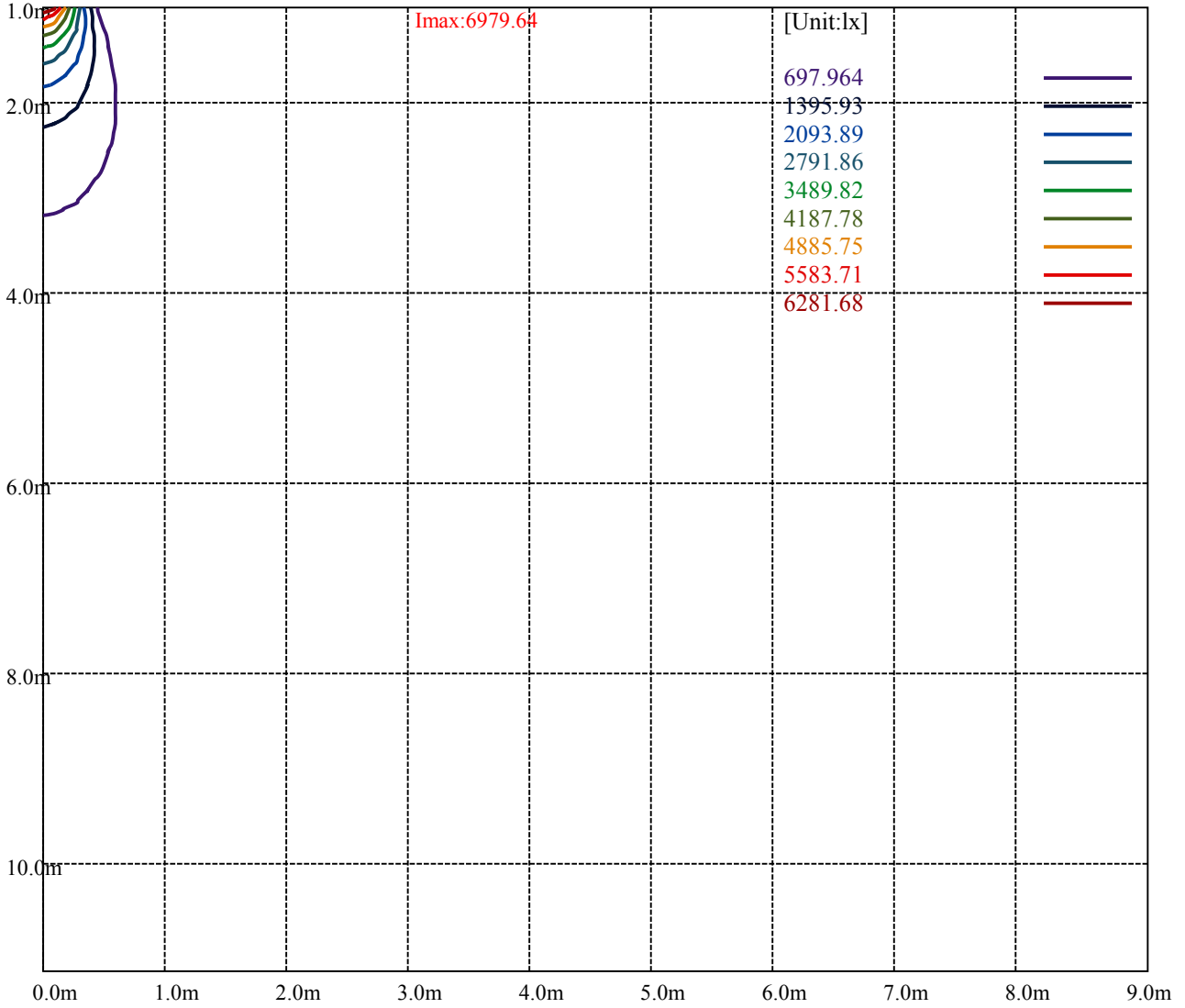
Road

Imax:6979.64

(10%Imax) 697.964	—
(20%Imax) 1395.93	—
(30%Imax) 2093.89	—
(40%Imax) 2791.86	—
(50%Imax) 3489.82	—
(60%Imax) 4187.78	—
(70%Imax) 4885.75	—
(80%Imax) 5583.71	—
(90%Imax) 6281.68	—



- (10%E_{max}) 174.4908
- (20%E_{max}) 348.9825
- (30%E_{max}) 523.4725
- (40%E_{max}) 697.9625
- (50%E_{max}) 872.4525
- (60%E_{max}) 1046.945
- (70%E_{max}) 1221.435
- (80%E_{max}) 1395.925
- (90%E_{max}) 1570.417



Luminance Table

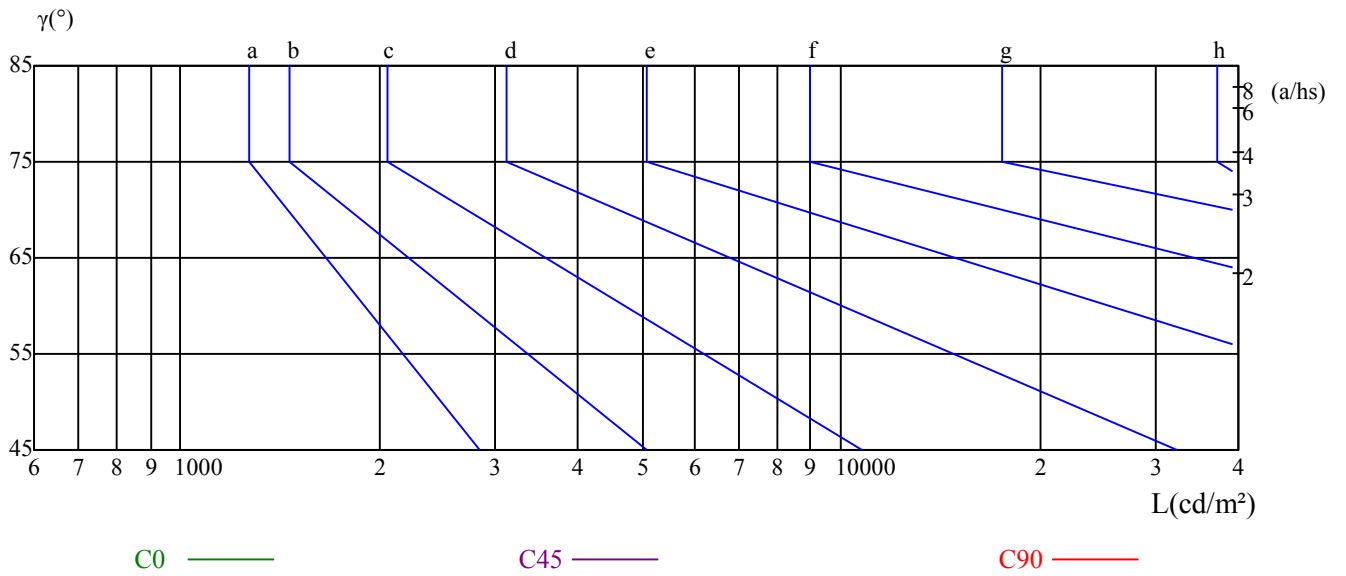
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

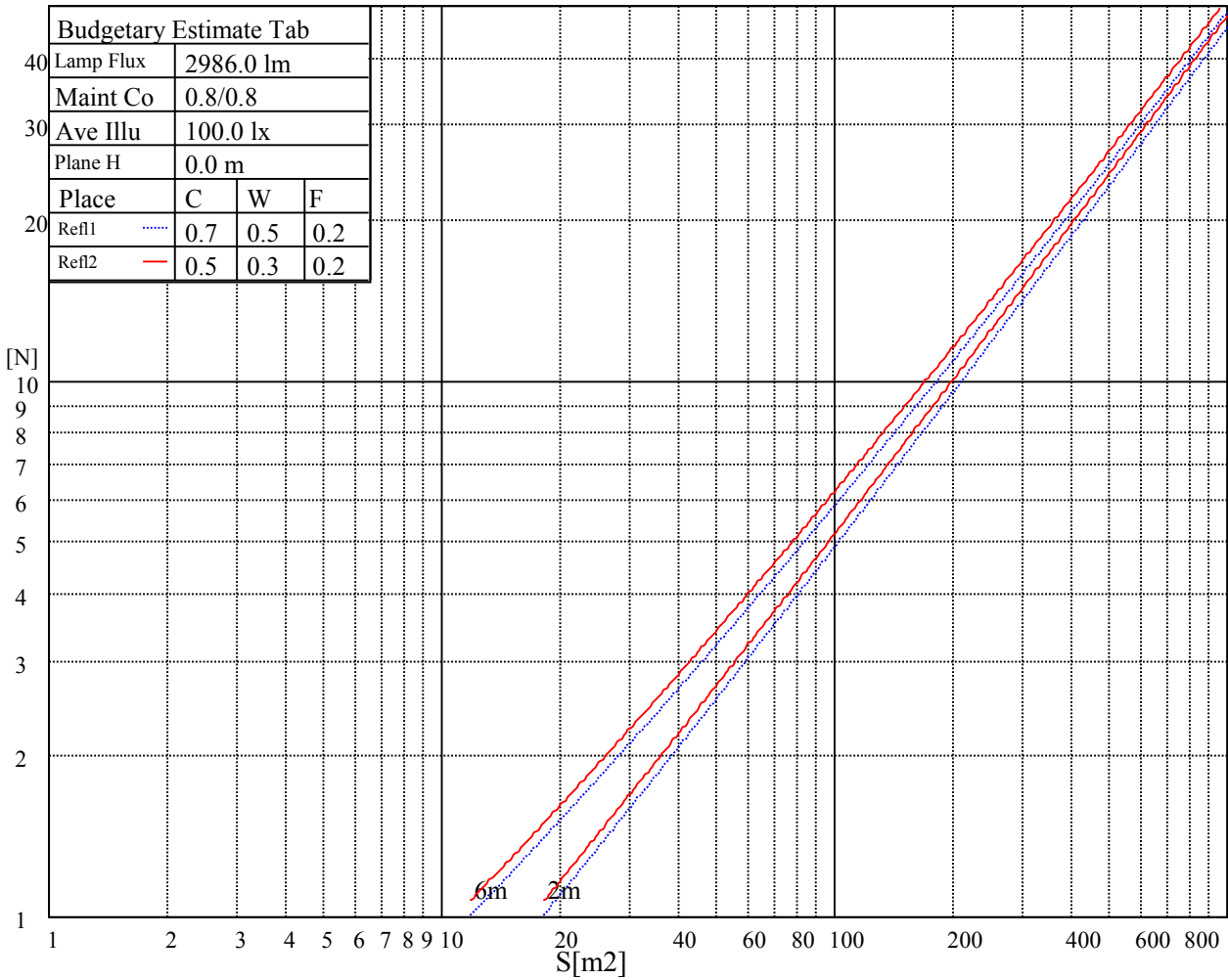
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

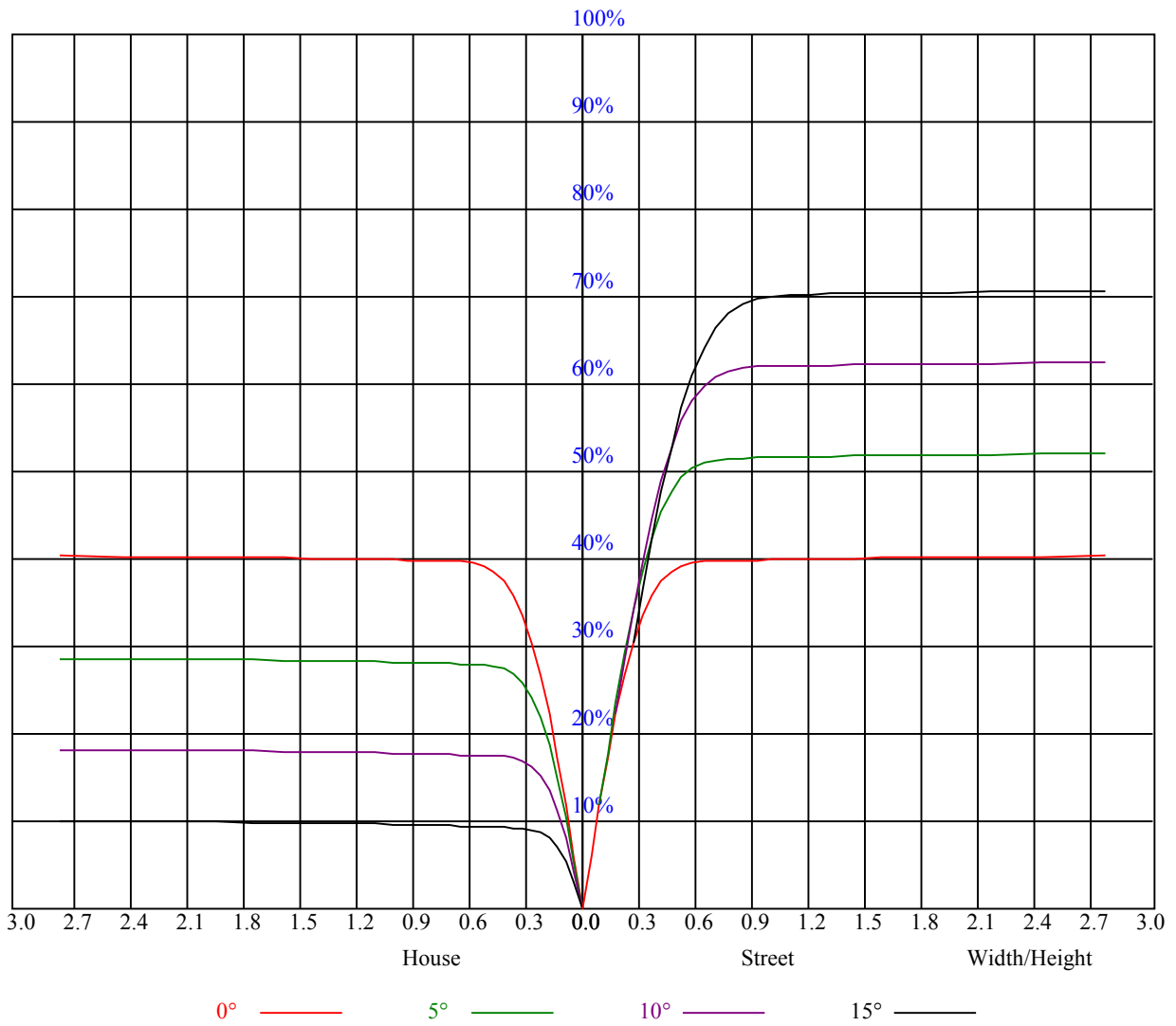
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	0.98	0.98	0.98	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.84	0.84	0.84	0.82
1	0.92	0.90	0.89	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.84	0.82	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.79	0.77	0.76	0.75
3	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.72
4	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.68	0.67
6	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.65	0.69	0.67	0.65	0.64
7	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.62
8	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.61	0.60
9	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.59	0.58
10	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.56



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	6979.50	6631.88	5612.06	4238.44	2685.38	1087.31	318.38	23.01	13.78
45.0	6985.69	6661.13	5644.13	4256.44	2687.06	1114.88	313.88	25.76	16.59
90.0	6983.44	6540.75	5568.19	4193.44	2551.50	1063.18	134.89	26.04	17.04
135.0	6969.94	6759.00	5919.19	4597.88	3049.31	1495.13	298.69	33.75	15.86
180.0	6979.50	6618.94	5659.88	4312.69	2825.44	1070.83	214.43	29.14	14.40
225.0	6985.69	6613.31	5653.13	4292.44	2802.94	1104.08	168.02	27.34	17.16
270.0	6983.44	6685.31	5720.06	4452.75	2872.69	1238.63	316.13	26.38	17.72
315.0	6969.94	6432.19	5361.75	4011.75	2359.13	806.91	85.67	18.23	14.63
360.0	6979.50	6631.88	5612.06	4238.44	2685.38	1087.31	318.38	23.01	13.78
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	12.54	12.15	11.93	11.70	11.48	11.36	11.31	10.74	10.35
45.0	15.19	14.57	13.95	13.39	13.78	14.40	12.32	11.19	10.63
90.0	15.47	14.74	14.01	13.89	16.20	15.75	12.15	11.31	10.69
135.0	13.84	13.16	12.71	12.49	12.38	13.67	16.14	11.25	10.58
180.0	12.94	12.43	12.09	11.87	11.59	11.48	11.42	10.91	10.41
225.0	15.53	14.85	14.23	13.84	14.23	14.85	12.54	11.31	10.74
270.0	16.09	15.36	14.85	15.47	17.55	19.46	12.71	11.93	11.14
315.0	13.73	13.22	12.94	12.77	12.66	19.69	11.93	11.19	11.08
360.0	12.54	12.15	11.93	11.70	11.48	11.36	11.31	10.74	10.35
C/ γ (°)	90.0								
0.0	9.96								
45.0	10.13								
90.0	10.13								
135.0	10.01								
180.0	9.96								
225.0	10.13								
270.0	10.13								
315.0	10.01								
360.0	9.96								