



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: 2-2137-M
Luminaire: BJB 47.360.1010
Report No: NATA0100
Test No: GC2019102813
LampCAT: TRIDONIC SLE G7 15MM
Lamp flux(lm): 2030.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 33.8400
Current(A): 0.4470
Power (W): 15.1200
PF: 1.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1537.93
Efficiency(%): 75.76%
Lumens(lm)/Power(W): 101.72
Central intensity(cd): 5136.188
Maximum intensity(cd): 5136.188
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=32.9
 [C90/270]Total=32.9
Field angle(10%Imax): [C0/180]Total=48.9
 [C90/270]Total=48.9
Maximum s/h(1/2): C0_180=0.56 C90_270=0.56
Maximum s/h(1/4): C0_180=0.51 C90_270=0.51
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 75.76%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.118%

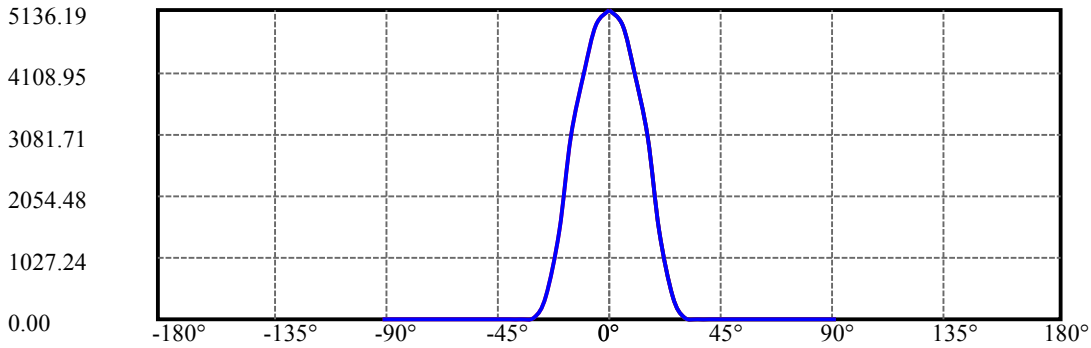
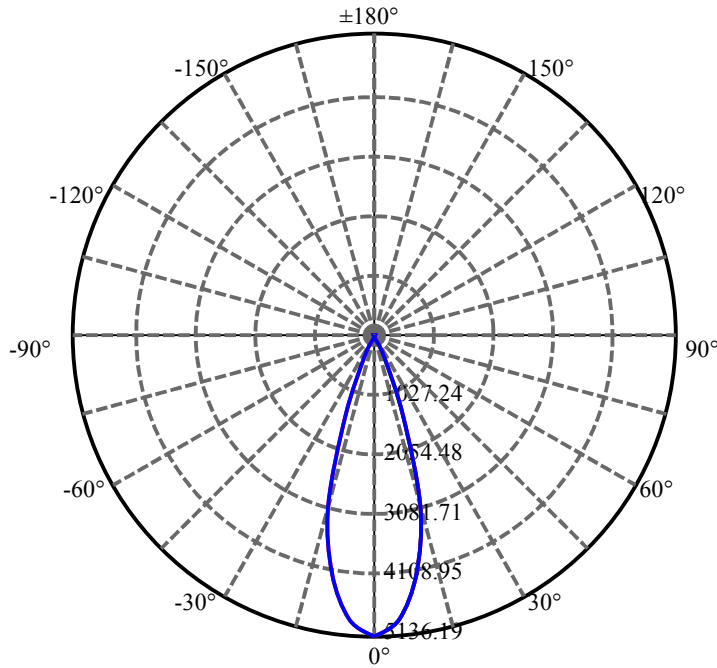
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5136.188	0.000	0	.000%	.000%
5.0	4873.219	119.660	119.66	5.895%	7.781%
10.0	4122.352	321.800	441.459	15.852%	28.705%
15.0	3022.383	423.821	865.28	20.878%	56.262%
20.0	1460.377	369.442	1234.723	18.199%	80.284%
25.0	394.755	194.569	1429.292	9.585%	92.936%
30.0	22.753	52.836	1482.128	2.603%	96.371%
35.0	12.994	5.264	1487.392	.259%	96.714%
40.0	11.130	4.025	1491.417	.198%	96.975%
45.0	10.413	3.989	1495.406	.197%	97.235%
50.0	10.069	4.139	1499.544	.204%	97.504%
55.0	10.266	4.421	1503.966	.218%	97.791%
60.0	11.482	5.027	1508.993	.248%	98.118%
65.0	12.270	5.774	1514.767	.284%	98.494%
70.0	10.948	5.879	1520.646	.290%	98.876%
75.0	8.726	5.142	1525.788	.253%	99.210%
80.0	7.552	4.355	1530.143	.215%	99.493%
85.0	7.073	3.974	1534.117	.196%	99.752%
90.0	6.870	3.818	1537.935	.188%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1482.13	73.01%	96.37%
0-40	1491.42	73.47%	96.98%
0-60	1508.99	74.33%	98.12%
0-90	1534.12	75.57%	99.75%
0-120	1534.12	75.57%	99.75%
0-180	1537.93	75.76%	100.00%
60-90	30.15	1.49%	1.96%
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%
0-19.94	1230.35	60.61%	80.00%

ZONAL LUMEN SUMMARY

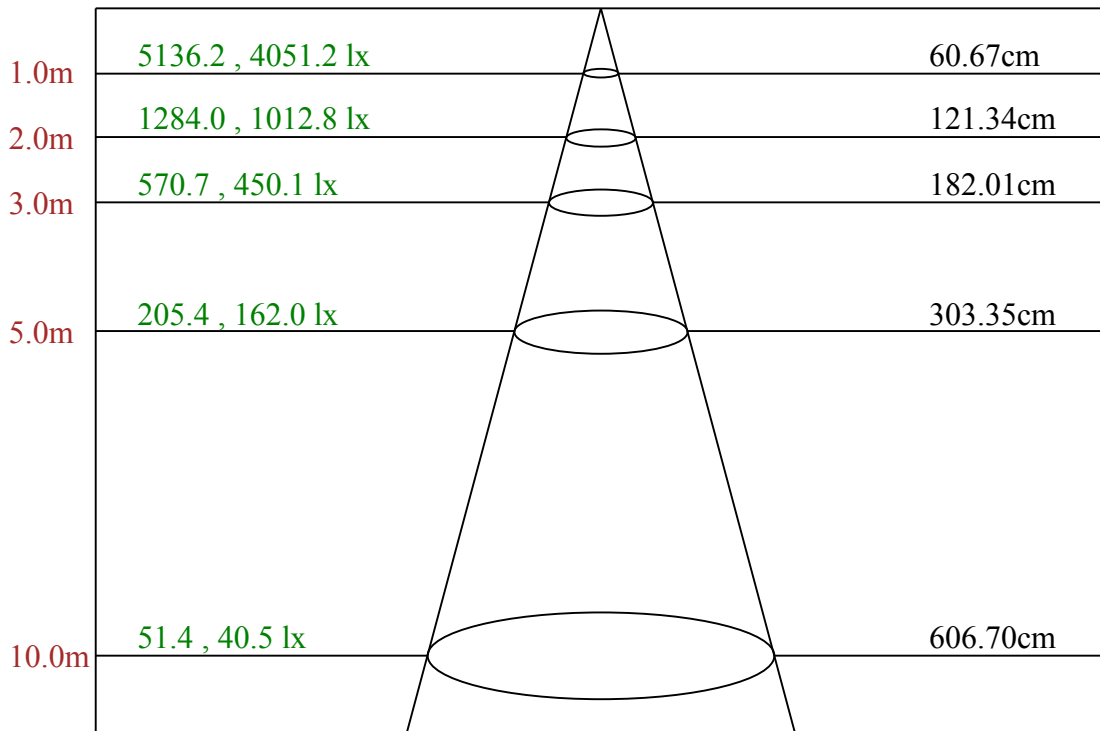
0-10	441.46
10-20	793.26
20-30	247.41
30-40	9.29
40-50	8.13
50-60	9.45
60-70	11.65
70-80	9.50
80-90	3.97
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



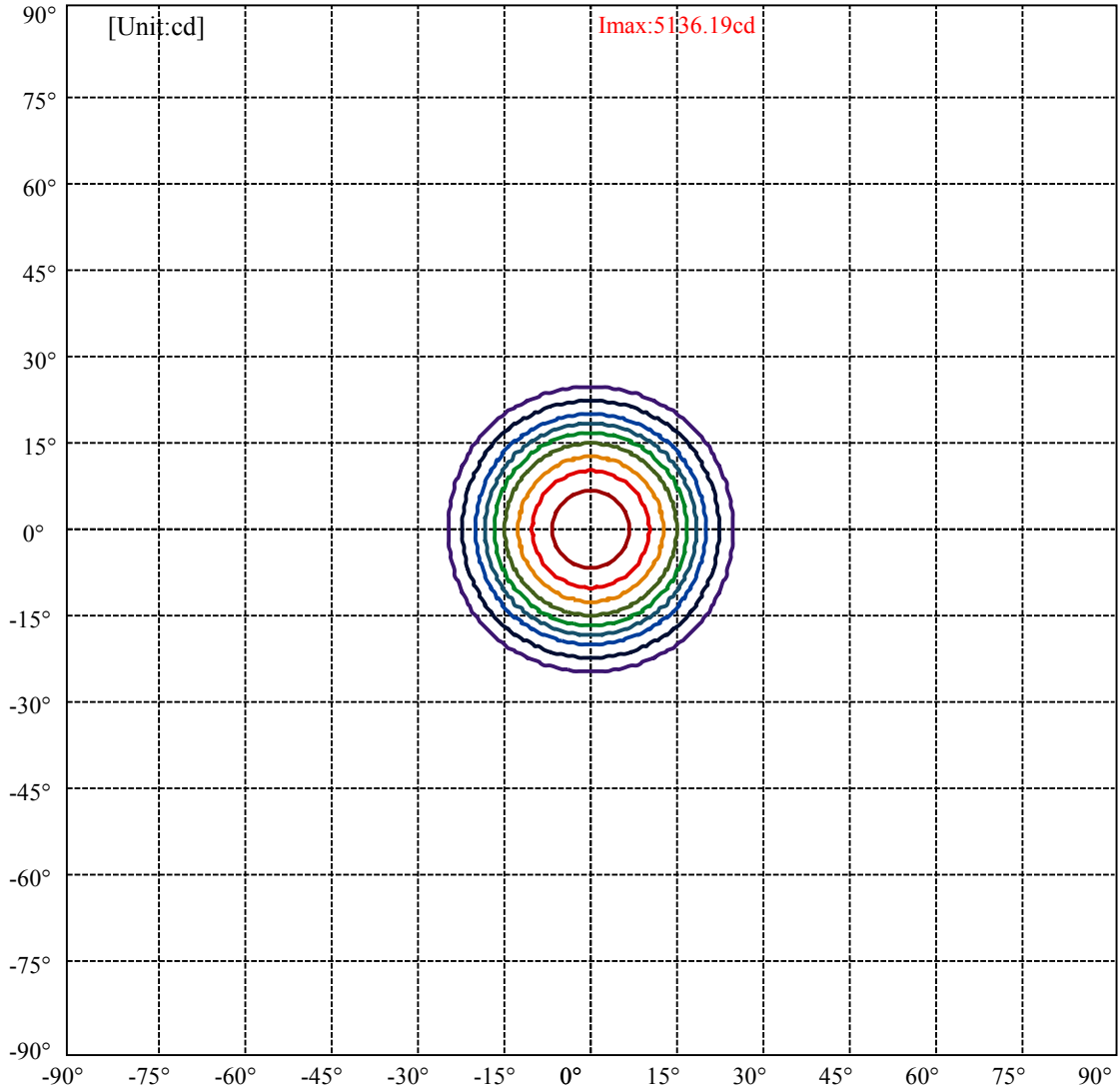
C0(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10%Imax):C0/180Left:24.4 Right:24.4
:C90/270Left:24.4 Right:24.4

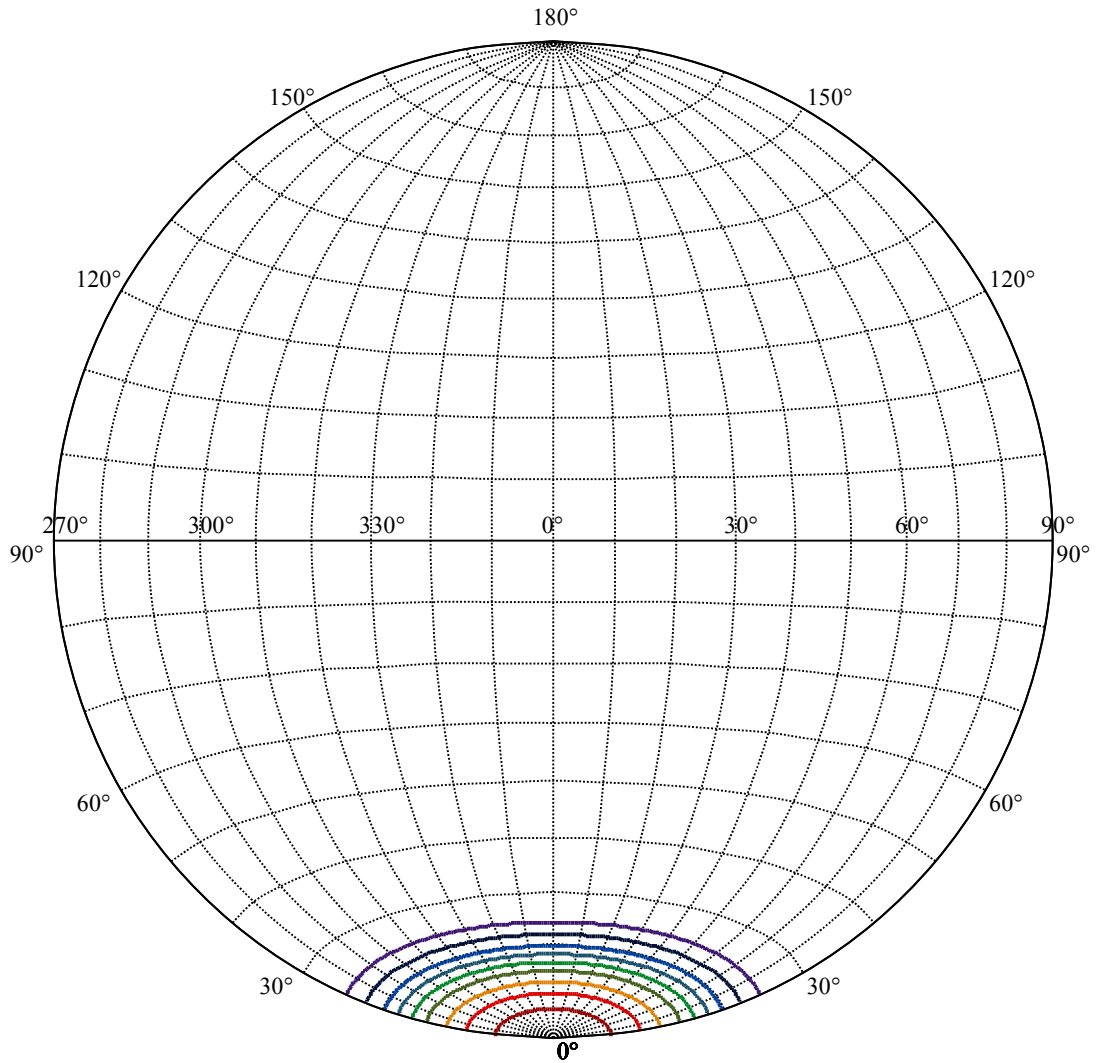
Beam Angle(50%Imax):C0/180Left:16.5 Right:16.5
:C90/270Left:16.5 Right:16.5



Max , Ave Beam angle of C0 plane 33.75



(10%Imax) 513.619	—
(20%Imax) 1027.24	—
(30%Imax) 1540.86	—
(40%Imax) 2054.48	—
(50%Imax) 2568.09	—
(60%Imax) 3081.71	—
(70%Imax) 3595.33	—
(80%Imax) 4108.95	—
(90%Imax) 4622.57	—



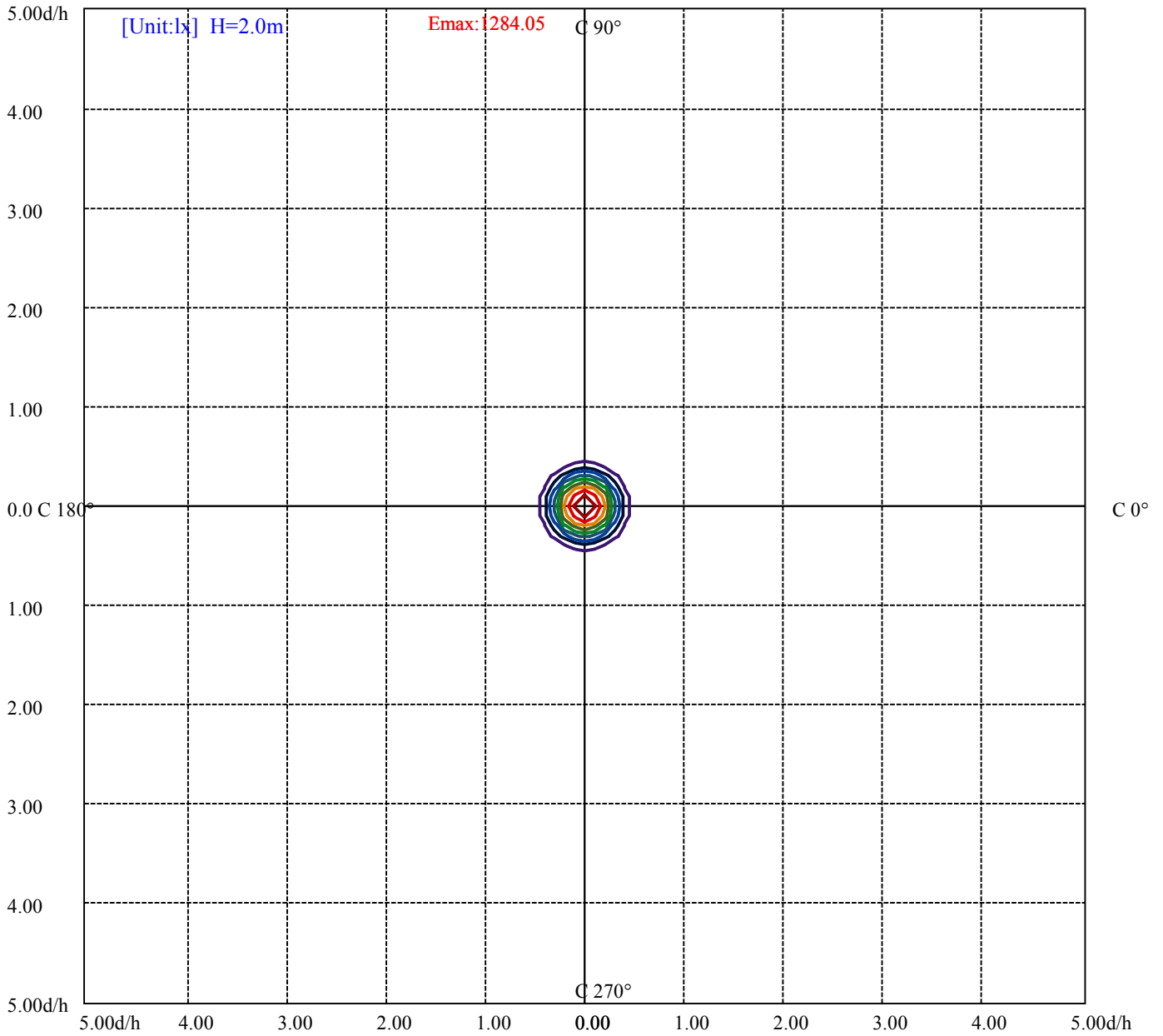
House

[Unit:cd]

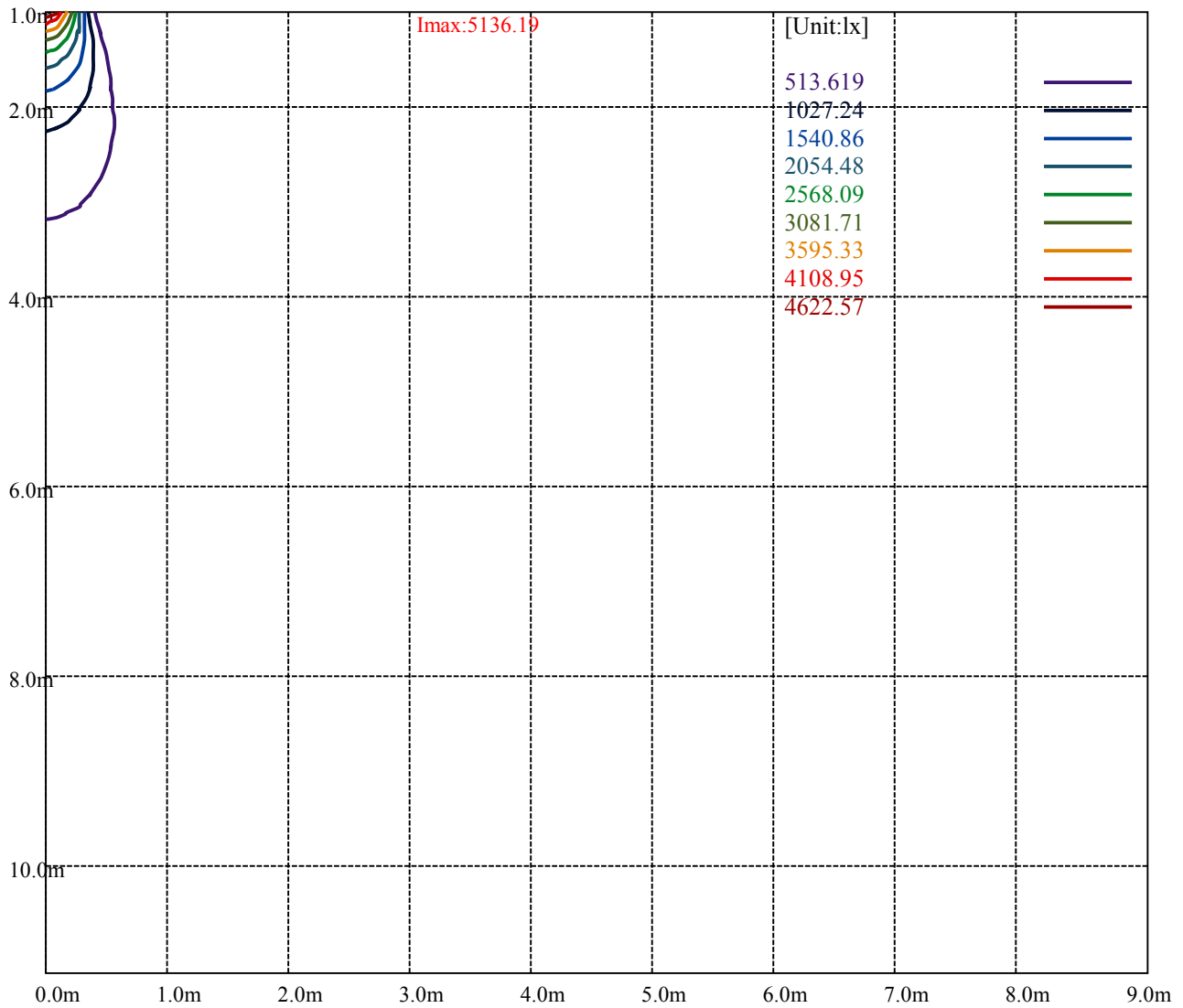
Road

Imax:5136.19

(10%Imax) 513.619	—
(20%Imax) 1027.24	—
(30%Imax) 1540.86	—
(40%Imax) 2054.48	—
(50%Imax) 2568.09	—
(60%Imax) 3081.71	—
(70%Imax) 3595.33	—
(80%Imax) 4108.95	—
(90%Imax) 4622.57	—



- (10%Emax) 128.4045
- (20%Emax) 256.81
- (30%Emax) 385.2125
- (40%Emax) 513.6175
- (50%Emax) 642.0225
- (60%Emax) 770.4275
- (70%Emax) 898.8325
- (80%Emax) 1027.235
- (90%Emax) 1155.64



Luminance Table

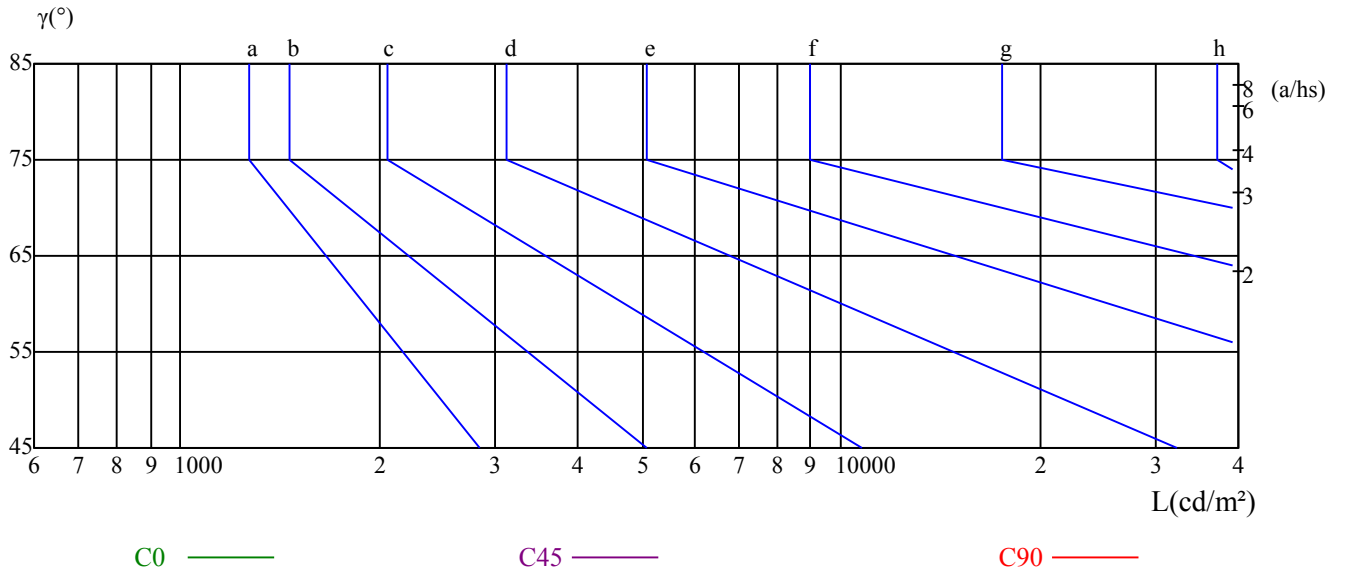
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

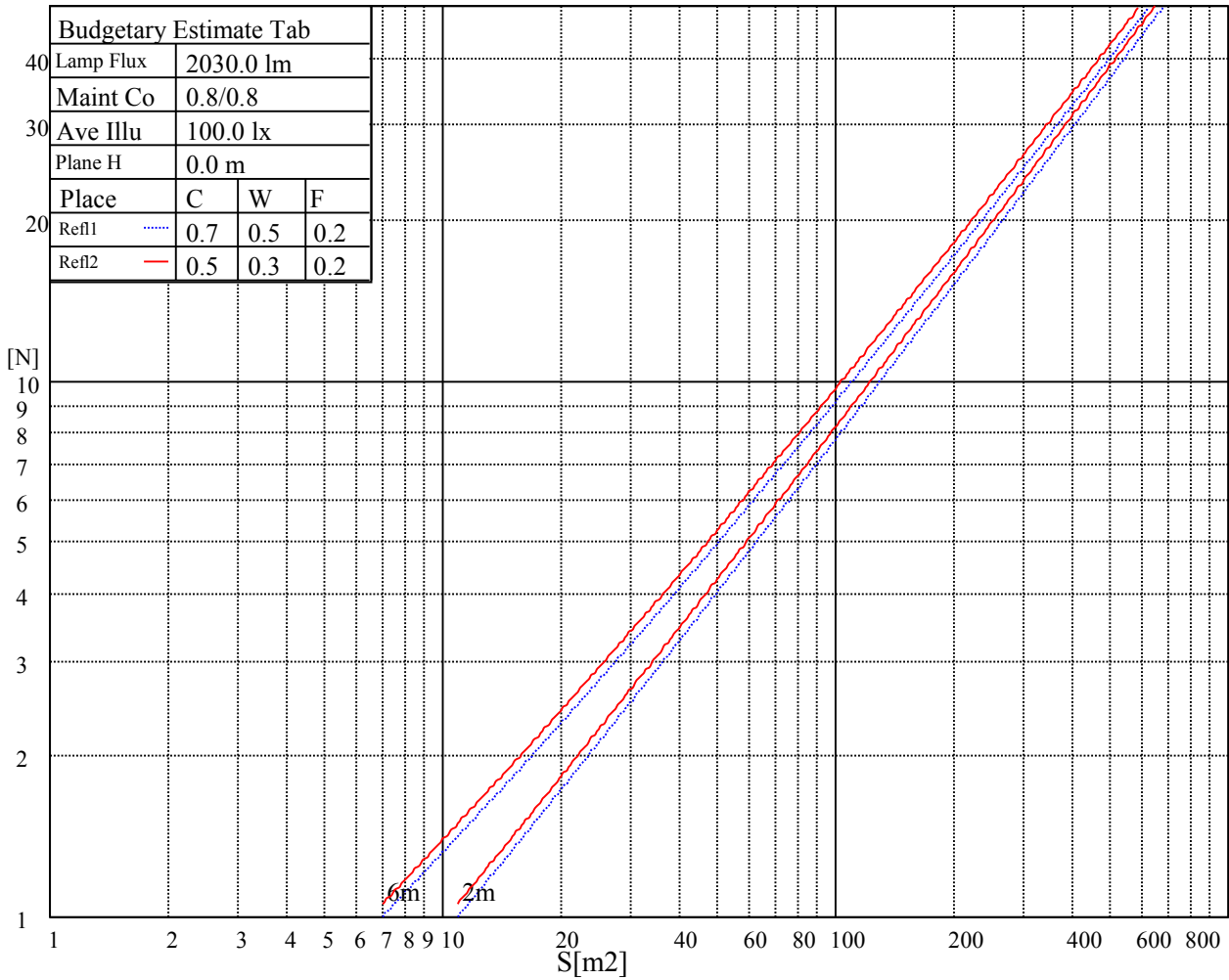
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

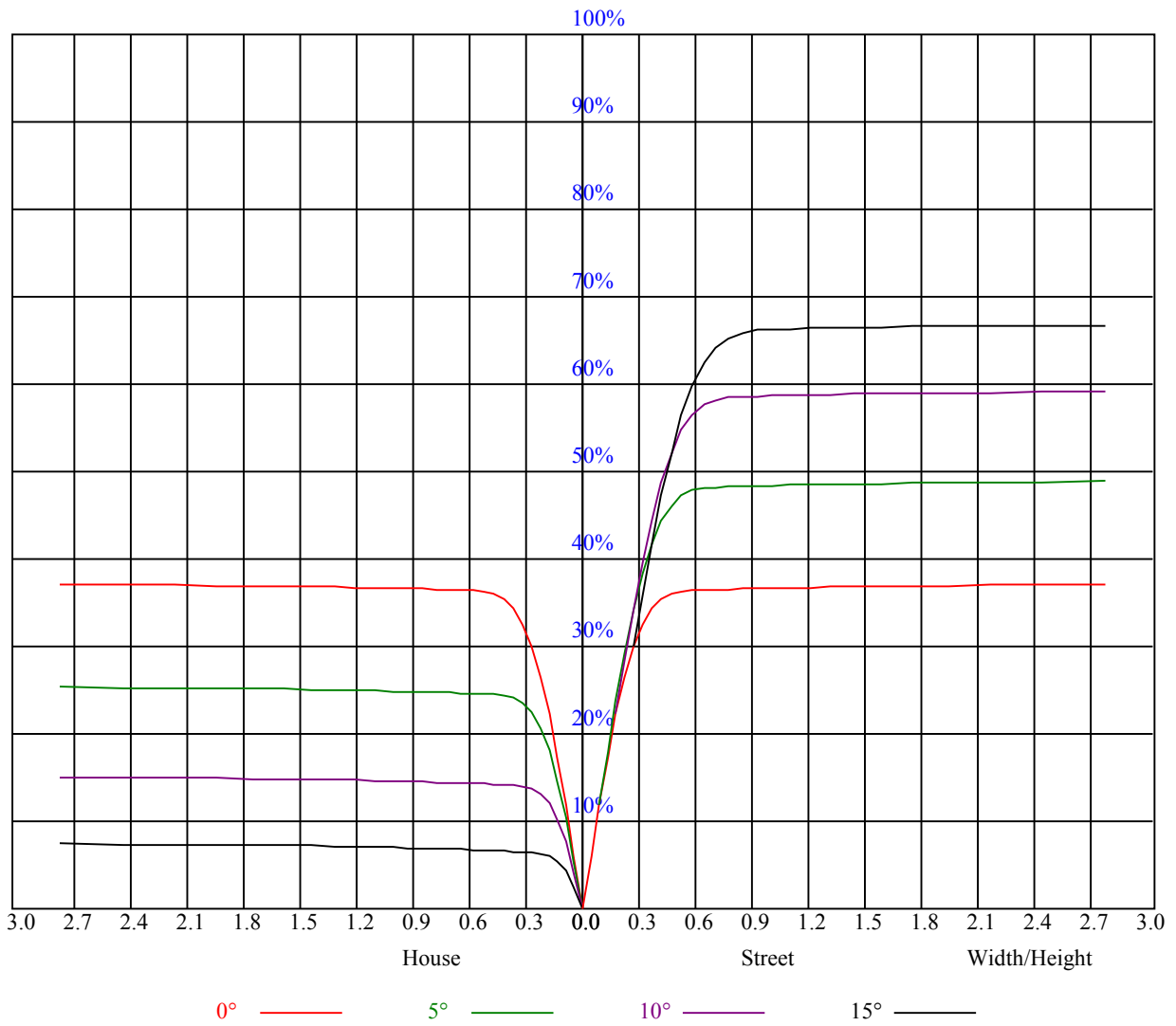
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.90	0.90	0.90	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.77	0.77	0.77	0.76
1	0.85	0.83	0.82	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75	0.74	0.74	0.72
2	0.81	0.78	0.76	0.80	0.77	0.75	0.77	0.75	0.74	0.75	0.74	0.72	0.73	0.72	0.71	0.70
3	0.77	0.74	0.72	0.76	0.74	0.71	0.74	0.72	0.70	0.73	0.71	0.69	0.71	0.69	0.68	0.67
4	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.67	0.69	0.67	0.66	0.65
5	0.71	0.68	0.65	0.71	0.67	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.67	0.65	0.64	0.63
6	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.65	0.63	0.62	0.61
7	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.64	0.62	0.60	0.63	0.61	0.60	0.59
8	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.62	0.60	0.58	0.62	0.60	0.58	0.57
9	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.58	0.57	0.61	0.58	0.56	0.60	0.58	0.56	0.55
10	0.60	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.59	0.56	0.55	0.54



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	5137.31	5002.31	4334.06	3380.06	1957.50	574.31	31.33	14.12	11.31
45.0	5127.75	5006.25	4341.38	3384.00	1968.19	594.00	32.34	14.51	12.38
90.0	5137.31	4856.63	4078.69	2971.13	1071.68	343.24	20.53	12.71	10.91
135.0	5142.38	4923.56	4203.56	3068.44	1839.38	435.94	20.31	11.81	10.13
180.0	5137.31	4755.94	3917.25	2681.44	1050.98	212.01	17.44	12.77	11.31
225.0	5127.75	4694.06	3899.81	2665.13	1051.65	211.84	18.79	13.39	12.04
270.0	5137.31	4887.56	4149.56	3094.88	1646.44	480.94	21.99	13.16	11.25
315.0	5142.38	4859.44	4054.50	2934.00	1097.21	305.78	19.29	11.48	9.73
360.0	5137.31	5002.31	4334.06	3380.06	1957.50	574.31	31.33	14.12	11.31
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	10.35	10.01	9.68	9.34	9.39	9.79	8.83	7.93	7.14
45.0	11.48	11.08	12.49	17.78	20.53	15.36	8.66	7.48	7.14
90.0	10.24	9.90	9.62	9.39	9.39	9.73	9.34	7.59	7.03
135.0	9.56	9.34	9.11	8.83	8.55	8.49	8.78	7.37	7.03
180.0	10.69	10.24	9.84	9.62	9.96	9.90	8.49	7.54	7.09
225.0	11.42	10.97	12.88	18.96	22.73	16.43	8.10	7.31	7.14
270.0	10.41	10.01	9.73	9.45	9.28	9.68	9.11	7.88	7.03
315.0	9.17	9.00	8.78	8.49	8.33	8.21	8.49	7.31	6.98
360.0	10.35	10.01	9.68	9.34	9.39	9.79	8.83	7.93	7.14
C/ γ (°)	90.0								
0.0	6.92								
45.0	6.86								
90.0	6.81								
135.0	6.86								
180.0	6.92								
225.0	6.86								
270.0	6.86								
315.0	6.86								
360.0	6.92								