



NATA LIGHTING CO.,LTD
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000(10 lines) Fax:+86 0750-377 1111
Address:380JinOu Road,Gaoxin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: 3-1916-E
Luminaire: 92.76.323.00
Report No: GC2017031104
Test No: NT-0010
LampCAT: PHILIPS SLM 1205 G6 L13
Lamp flux(lm): 2757.0
Number of Lamps: 1
Length(mm): 79
Phm Type: C

Voltage(V): 36.5000
Current(A): 0.6000
Power (W): 21.9000
PF: 0.0000
Ballast type: DC
Width(mm): 79
Height(mm): 0

Photometric Results

Lumens(lm): 2530.13
Efficiency(%): 91.77%
Lumens(lm)/Power(W): 115.53
Central intensity(cd): 9815.593
Maximum intensity(cd): 9815.593
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=22.9
 [C90/270]Total=22.9
Field angle(10%Imax): [C0/180]Total=56.4
 [C90/270]Total=56.4
Maximum s/h(1/2): C0_180=0.39 C90_270=0.39
Maximum s/h(1/4): C0_180=0.40 C90_270=0.40
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.77%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.683%

Equipment: gms1980
Temperature(°C): 25.0

Date: 2017/3/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

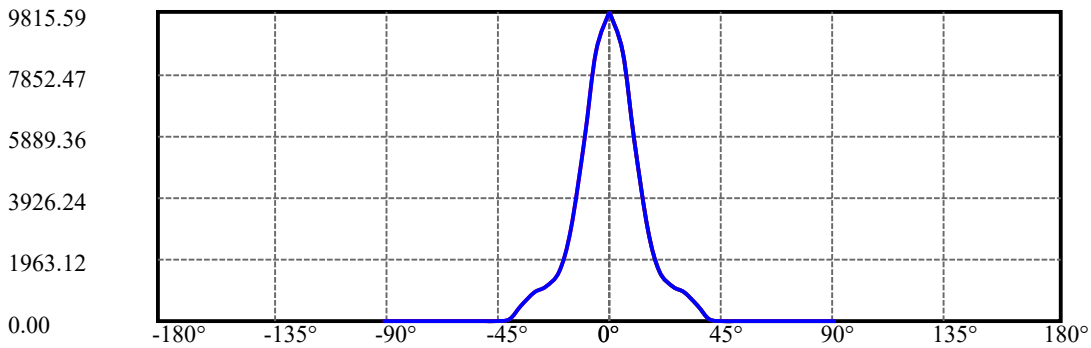
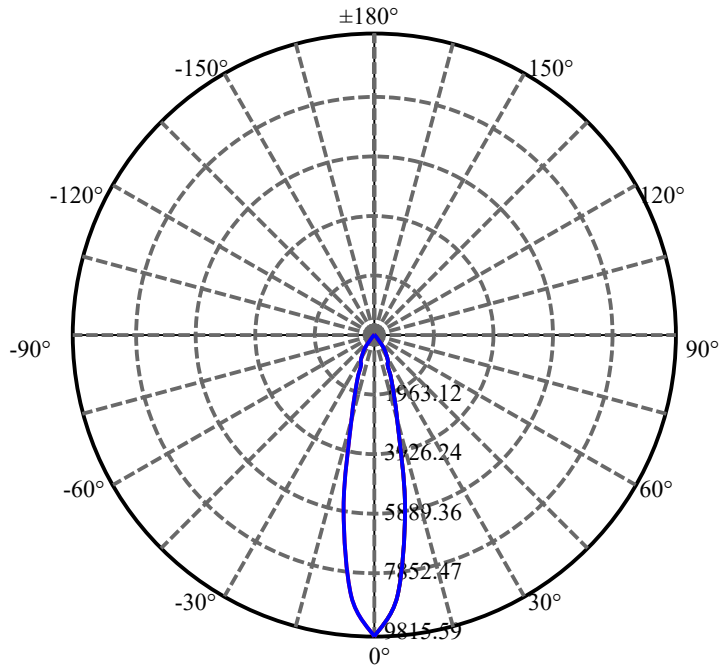
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9815.593	0.000	0	.000%	.000%
5.0	8508.003	219.053	219.053	7.945%	8.658%
10.0	5717.194	508.880	727.933	18.458%	28.771%
15.0	2906.014	511.523	1239.456	18.554%	48.988%
20.0	1612.051	372.352	1611.808	13.506%	63.705%
25.0	1100.853	284.534	1896.342	10.320%	74.950%
30.0	913.255	254.887	2151.229	9.245%	85.024%
35.0	509.038	209.443	2360.672	7.597%	93.302%
40.0	89.246	99.819	2460.491	3.621%	97.248%
45.0	17.687	19.800	2480.29	.718%	98.030%
50.0	12.374	6.074	2486.365	.220%	98.270%
55.0	11.569	5.206	2491.571	.189%	98.476%
60.0	11.094	5.238	2496.809	.190%	98.683%
65.0	10.825	5.329	2502.138	.193%	98.894%
70.0	10.805	5.477	2507.614	.199%	99.110%
75.0	10.653	5.609	2513.223	.203%	99.332%
80.0	10.557	5.675	2518.899	.206%	99.556%
85.0	10.289	5.664	2524.563	.205%	99.780%
90.0	10.041	5.566	2530.129	.202%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2151.23	78.03%	85.02%
0-40	2460.49	89.25%	97.25%
0-60	2496.81	90.56%	98.68%
0-90	2524.56	91.57%	99.78%
0-120	2524.56	91.57%	99.78%
0-180	2530.13	91.77%	100.00%
60-90	32.99	1.20%	1.30%
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%
0-27.51	2024.10	73.42%	80.00%

ZONAL LUMEN SUMMARY

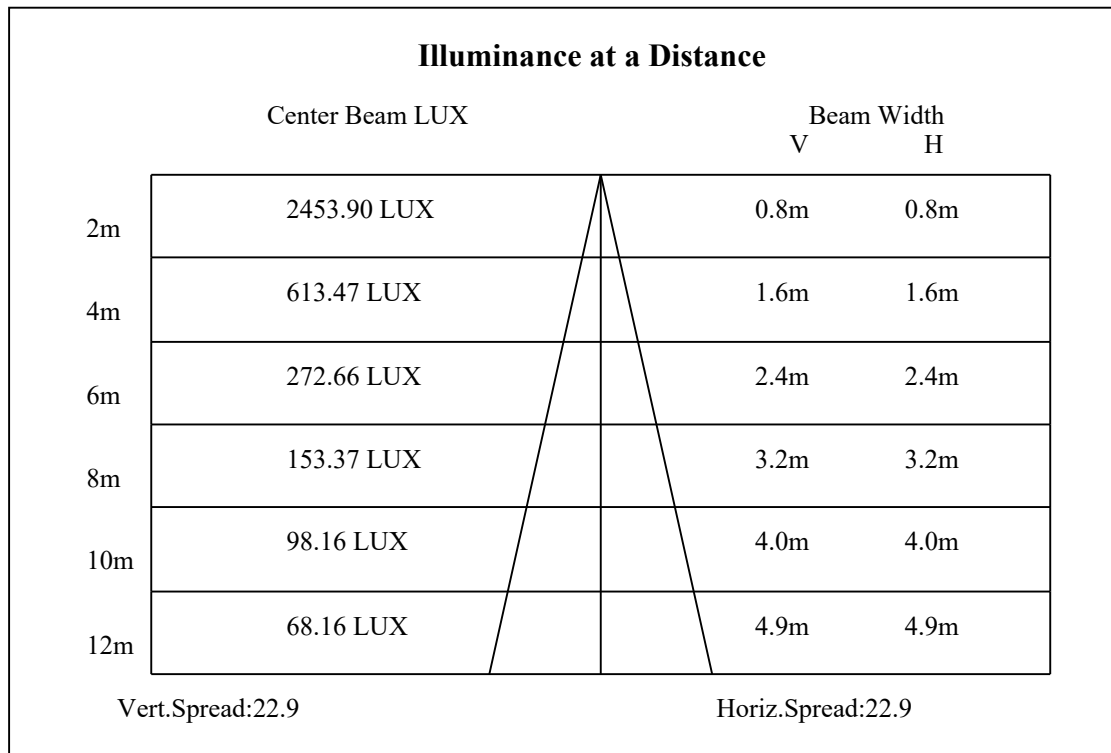
0-10	727.93
10-20	883.88
20-30	539.42
30-40	309.26
40-50	25.87
50-60	10.44
60-70	10.81
70-80	11.28
80-90	5.66
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

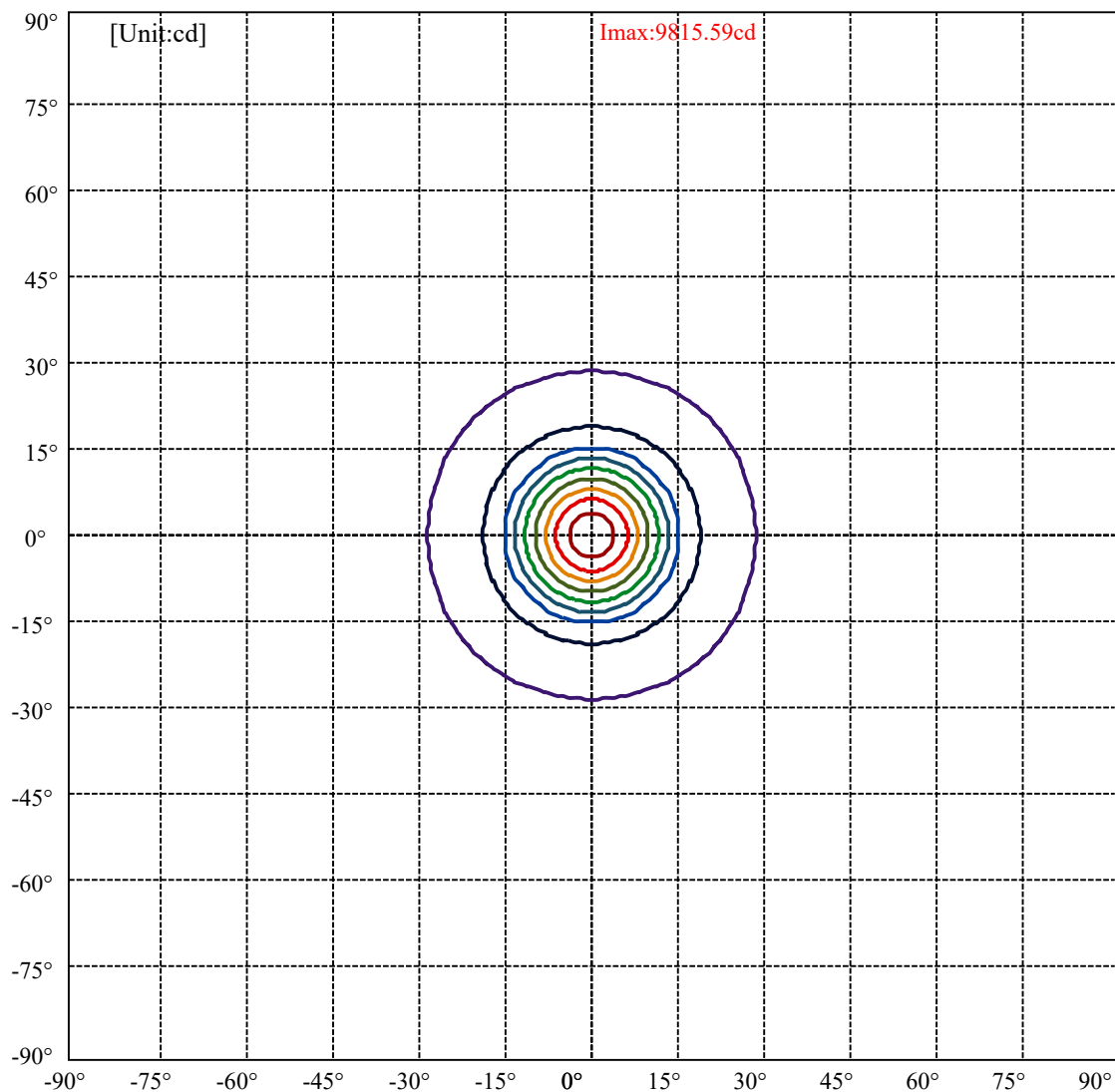


C0(Max): —————
C0/C180: —————
C90/C270: —————

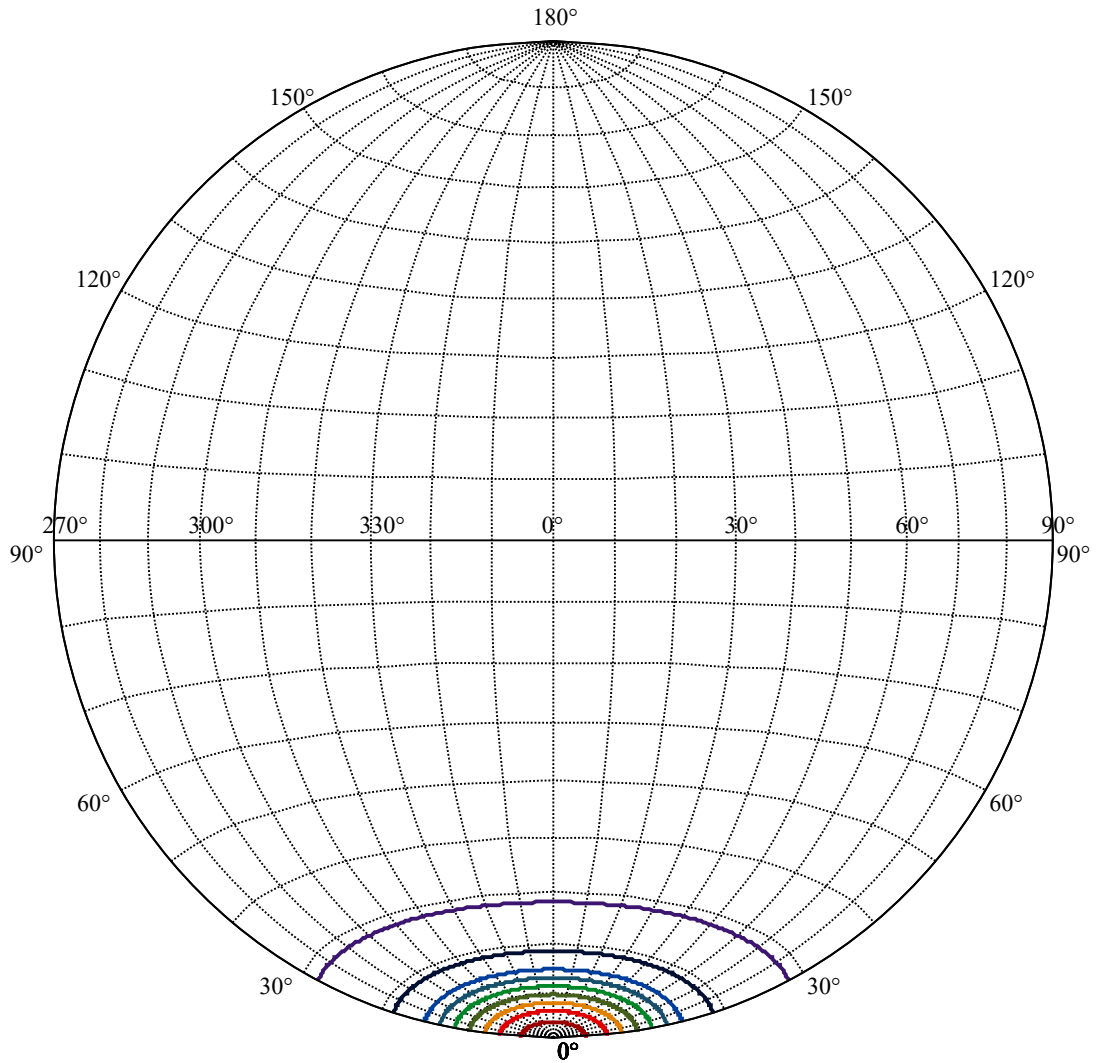
Field angle(10%Imax):C0/180Left:28.2 Right:28.2
:C90/270Left:28.2 Right:28.2

Beam Angle(50%Imax):C0/180Left:11.4 Right:11.4
:C90/270Left:11.4 Right:11.4





(10%Imax)	981.559	—
(20%Imax)	1963.12	—
(30%Imax)	2944.68	—
(40%Imax)	3926.24	—
(50%Imax)	4907.8	—
(60%Imax)	5889.36	—
(70%Imax)	6870.92	—
(80%Imax)	7852.47	—
(90%Imax)	8834.03	—



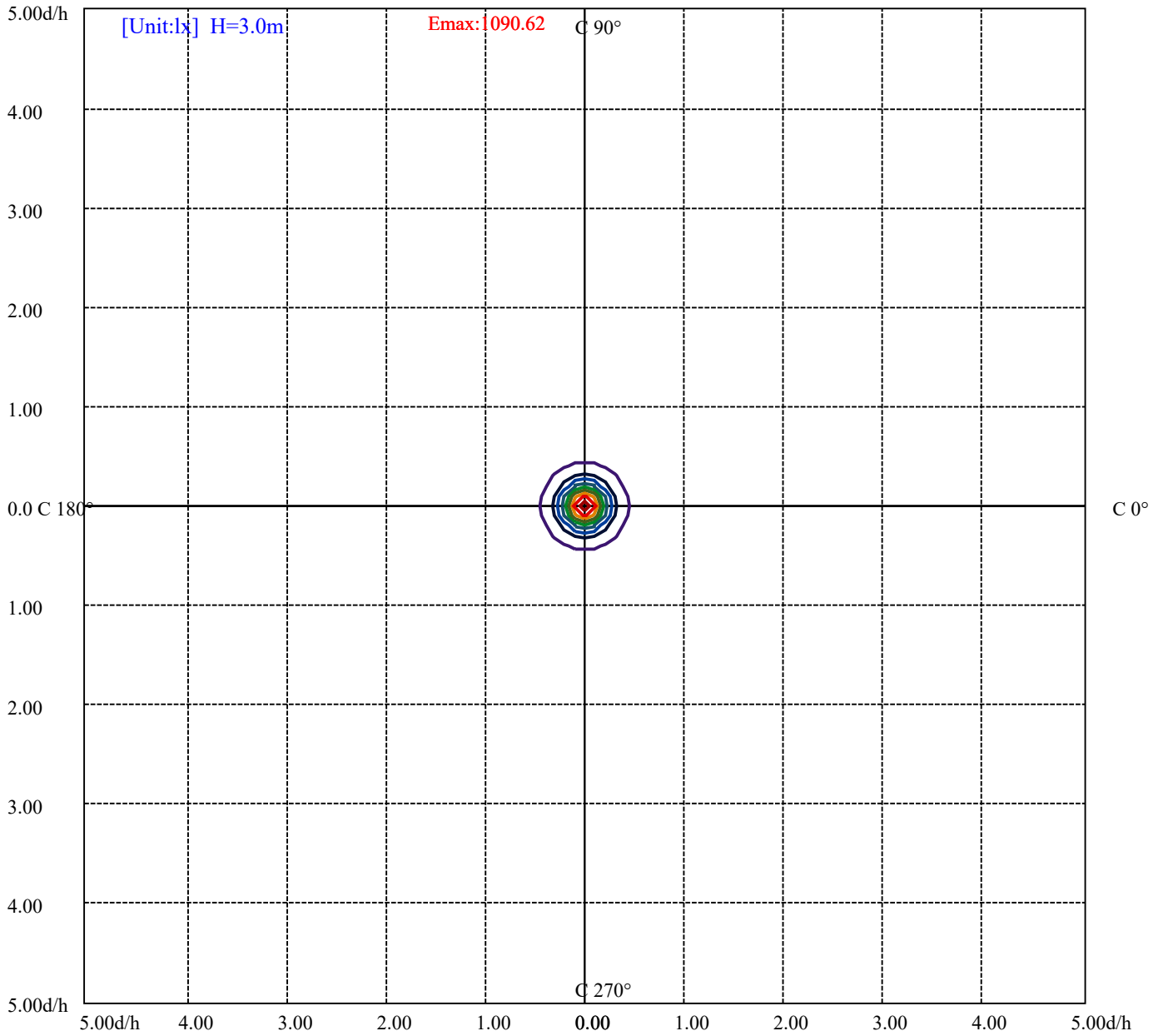
House

[Unit:cd]

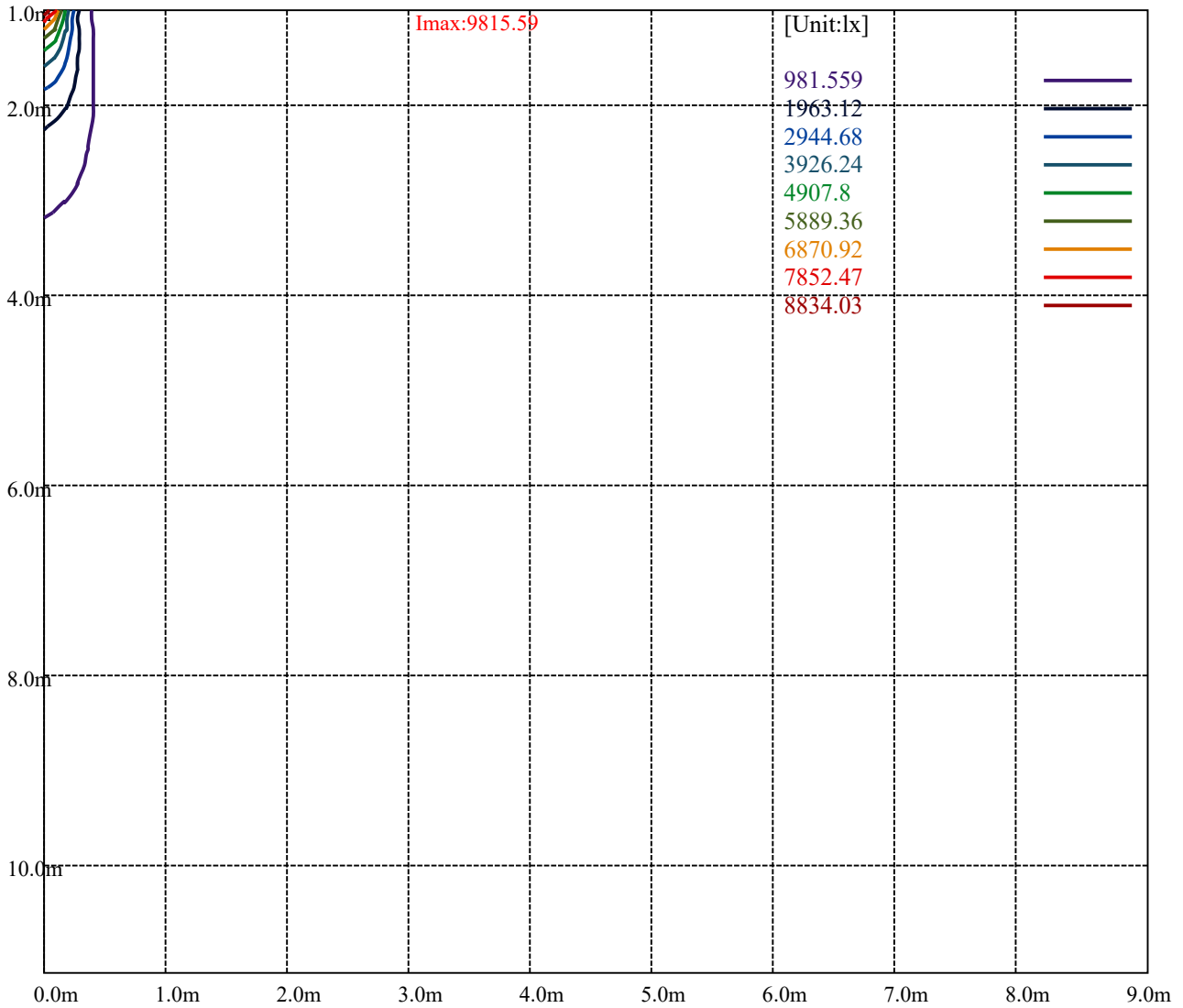
Road

Imax:9815.59

(10%Imax)	981.559	—
(20%Imax)	1963.12	—
(30%Imax)	2944.68	—
(40%Imax)	3926.24	—
(50%Imax)	4907.8	—
(60%Imax)	5889.36	—
(70%Imax)	6870.92	—
(80%Imax)	7852.47	—
(90%Imax)	8834.03	—



(10%Emax) 109.0617	—
(20%Emax) 218.1233	—
(30%Emax) 327.1855	—
(40%Emax) 436.2467	—
(50%Emax) 545.3088	—
(60%Emax) 654.37	—
(70%Emax) 763.4323	—
(80%Emax) 872.4933	—
(90%Emax) 981.5555	—



Luminance Table

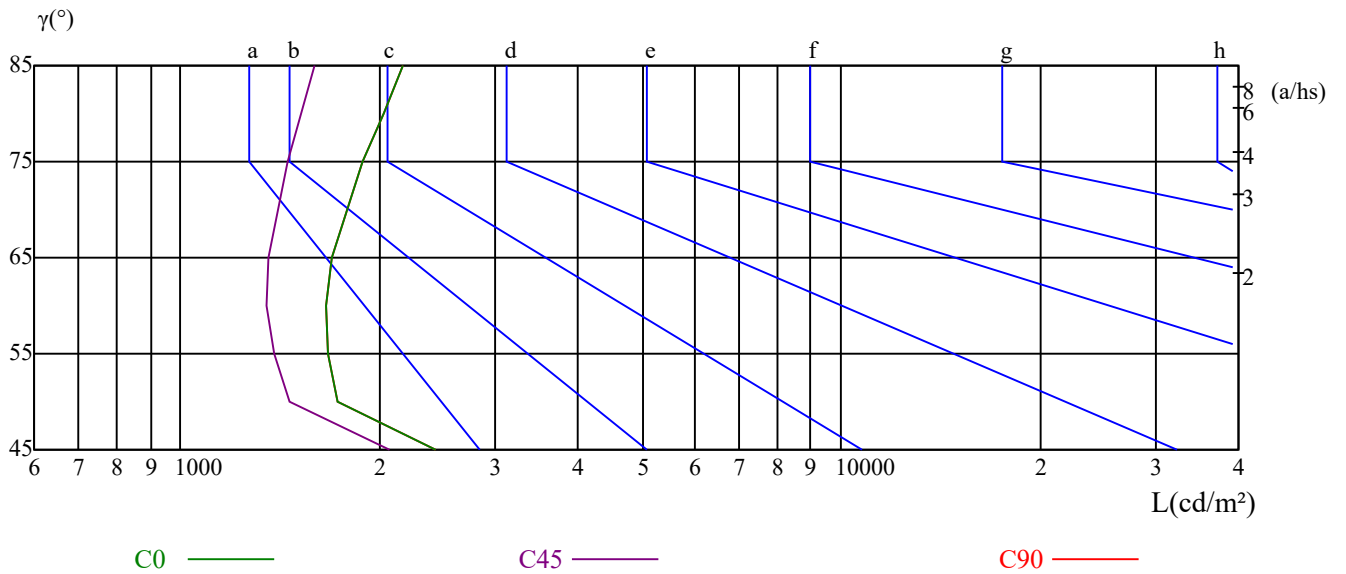
γ	45	50	55	60	65	70	75	80	85
C0	2429	1734	1667	1658	1695	1789	1888	2028	2177
C45	2077	1460	1382	1353	1358	1407	1454	1525	1592
C90	2429	1734	1667	1658	1695	1789	1888	2028	2177

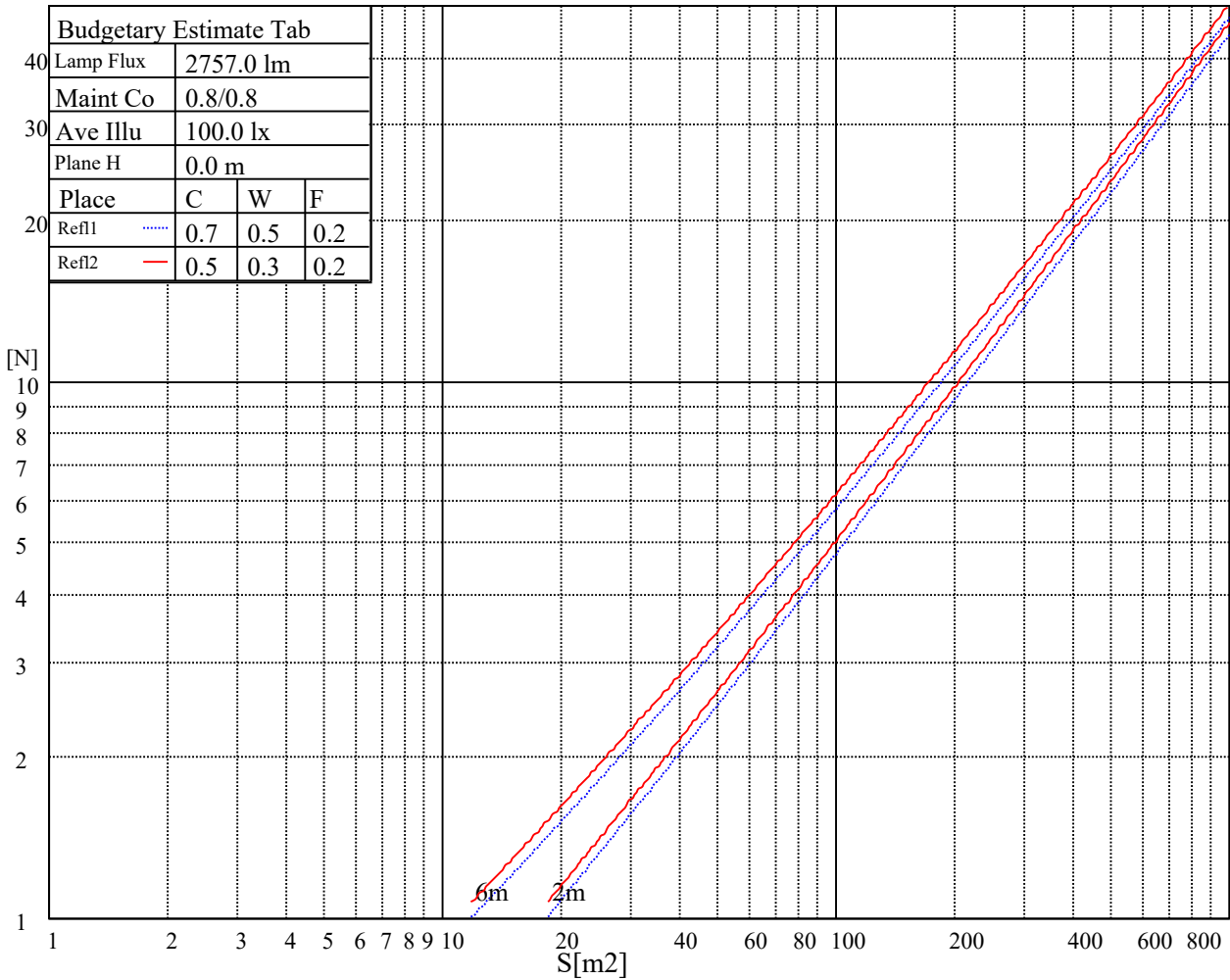
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4210	4210	4210	6766	6766	6766	19403	19403	19403

Glare Table

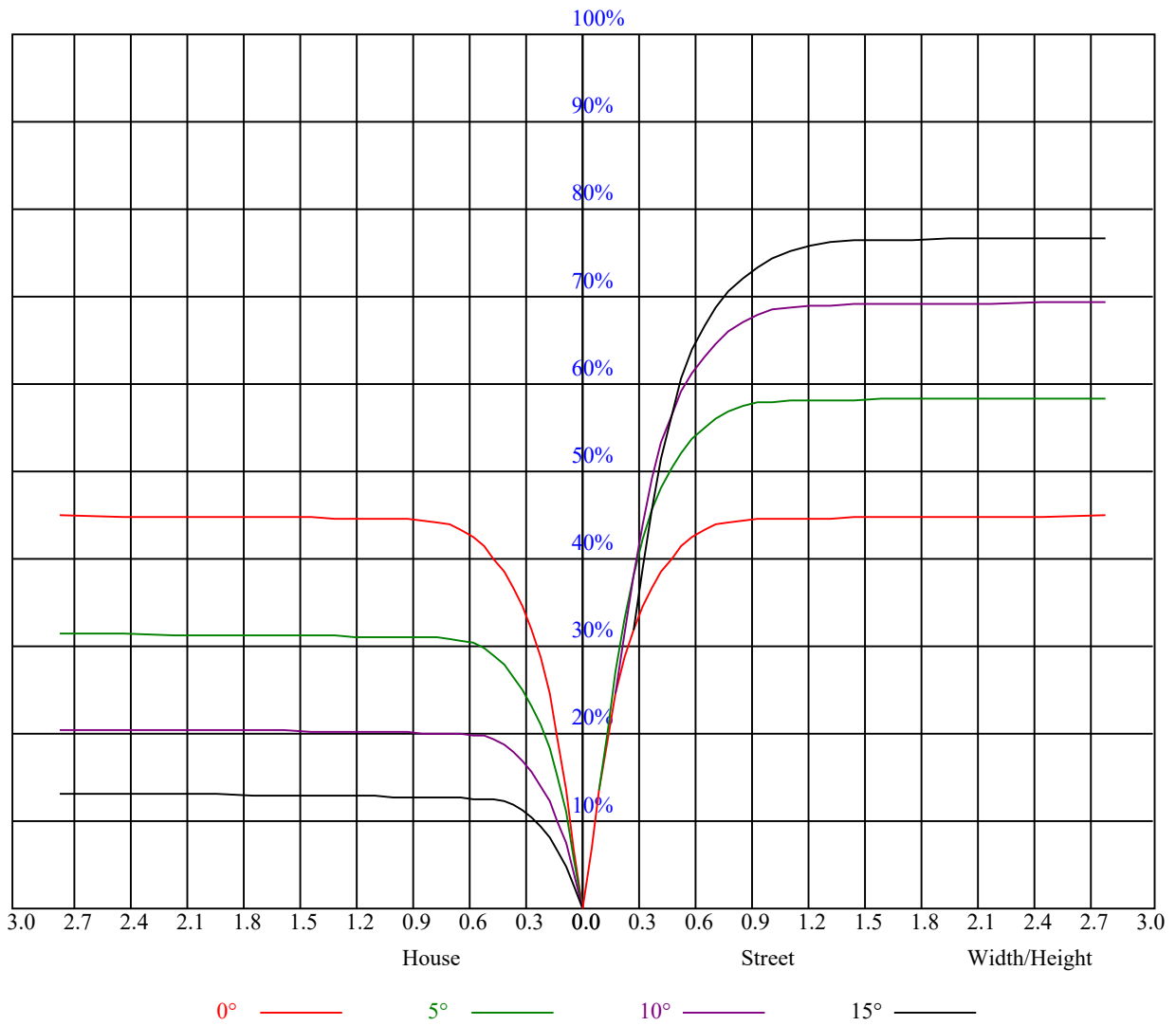
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.92	0.91	0.90	0.90	0.89	0.87
2	0.97	0.94	0.91	0.95	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.85	0.83
3	0.92	0.88	0.85	0.91	0.87	0.84	0.88	0.86	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.79
4	0.88	0.83	0.80	0.87	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
6	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
8	0.74	0.70	0.66	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.69	0.66	0.63	0.62
10	0.69	0.64	0.62	0.68	0.64	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60



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	9790.68	8751.21	6395.90	3208.69	1706.20	1152.88	946.42	621.59	153.39
45.0	9836.38	8302.51	5603.09	2766.03	1553.69	1095.07	908.43	486.15	41.62
90.0	9742.78	7694.13	4472.23	2228.13	1365.40	1009.46	837.85	287.94	26.87
135.0	9892.53	8298.10	5196.22	2708.22	1503.04	1064.79	905.13	425.59	30.12
180.0	9790.68	8161.01	5185.76	2537.55	1461.20	1055.05	888.50	406.87	33.20
225.0	9836.38	8628.99	5830.47	2929.55	1602.69	1095.62	918.73	521.27	39.59
270.0	9742.78	9356.28	6898.02	3717.96	1980.38	1246.48	969.54	723.99	296.75
315.0	9892.53	8871.79	6155.86	3151.98	1723.82	1087.47	931.44	598.90	92.44
360.0	9790.68	8751.21	6395.90	3208.69	1706.20	1152.88	946.42	621.59	153.39

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	20.76	12.66	11.73	11.29	10.90	10.68	10.46	10.35	10.24
45.0	16.96	12.44	11.67	11.18	10.96	10.68	10.35	10.24	10.08
90.0	13.27	12.17	11.45	11.12	11.18	12.39	12.61	12.39	10.90
135.0	14.42	12.22	11.56	11.12	10.85	10.74	10.57	10.46	10.30
180.0	16.02	12.06	11.34	10.96	10.68	10.46	10.35	10.24	10.19
225.0	16.35	12.33	11.45	10.90	10.57	10.52	10.24	10.30	10.24
270.0	23.23	12.72	11.78	11.12	10.74	10.52	10.30	10.24	10.19
315.0	20.48	12.39	11.56	11.07	10.74	10.46	10.35	10.24	10.19
360.0	20.76	12.66	11.73	11.29	10.90	10.68	10.46	10.35	10.24

C/γ(°)	90.0
0.0	10.13
45.0	9.97
90.0	10.02
135.0	10.08
180.0	10.13
225.0	9.91
270.0	10.02
315.0	10.08
360.0	10.13