



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

Nata

LumCAT: 5-1014-A	
Luminaire: 92.76.172.00	
Report No: NT2017071503	Voltage(V): 36.1200
Test No: GC2017071503	Current(A): 0.9000
LampCAT: PHILIPS SLM G6 1211 L19	Power (W): 32.5000
Lamp flux(lm): 3740.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 140	Width(mm): 140
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3391.22
Efficiency(%): 90.67%
Lumens(lm)/Power(W): 104.35
Central intensity(cd): 3849.582
Maximum intensity(cd): 3849.582
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=60.3
 [C90/270]Total=60.3
Field angle(10%Imax): [C0/180]Total=85.0
 [C90/270]Total=85.0
Maximum s/h(1/2): C0_180=0.90 C90_270=0.90
Maximum s/h(1/4): C0_180=0.90 C90_270=0.90
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.67%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.758%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/7/5
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.46

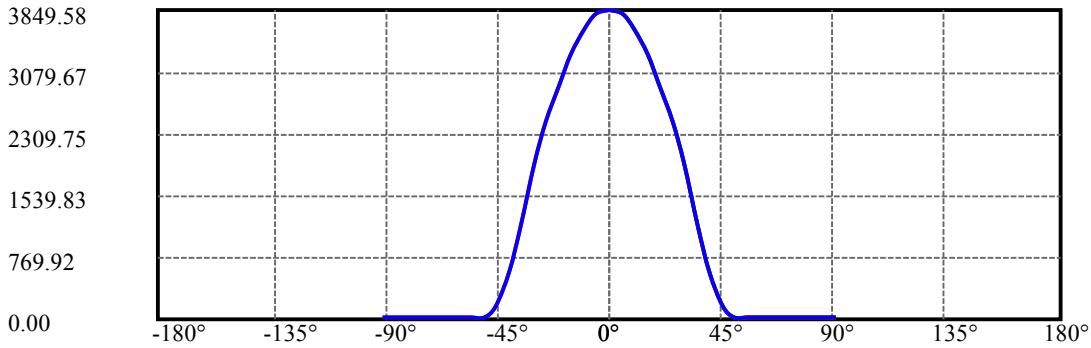
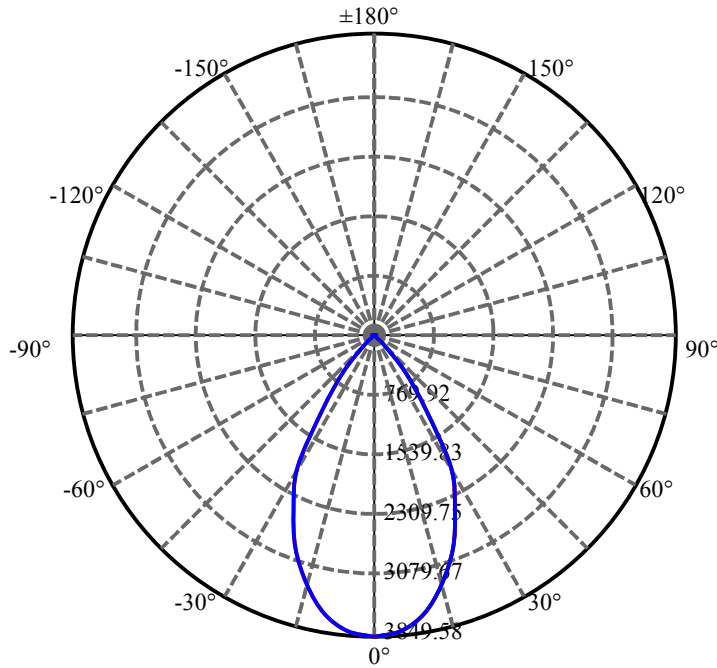
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3849.582	0.000	0	.000%	.000%
5.0	3802.050	91.473	91.473	2.446%	2.697%
10.0	3605.451	264.990	356.463	7.085%	10.511%
15.0	3303.767	409.850	766.313	10.959%	22.597%
20.0	2906.742	511.833	1278.146	13.685%	37.690%
25.0	2454.738	562.320	1840.466	15.035%	54.271%
30.0	1944.416	556.717	2397.183	14.885%	70.688%
35.0	1170.776	458.734	2855.917	12.266%	84.215%
40.0	600.403	295.508	3151.425	7.901%	92.929%
45.0	168.017	142.279	3293.704	3.804%	97.124%
50.0	26.076	39.219	3332.923	1.049%	98.281%
55.0	16.243	9.202	3342.125	.246%	98.552%
60.0	13.995	6.989	3349.114	.187%	98.758%
65.0	13.452	6.672	3355.787	.178%	98.955%
70.0	13.390	6.797	3362.583	.182%	99.155%
75.0	13.362	6.992	3369.576	.187%	99.362%
80.0	13.369	7.152	3376.728	.191%	99.573%
85.0	13.299	7.246	3383.975	.194%	99.786%
90.0	13.181	7.250	3391.225	.194%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2397.18	64.10%	70.69%
0-40	3151.42	84.26%	92.93%
0-60	3349.11	89.55%	98.76%
0-90	3383.97	90.48%	99.79%
0-120	3383.97	90.48%	99.79%
0-180	3391.22	90.67%	100.00%
60-90	41.85	1.12%	1.23%
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%
0-33.44	2712.98	72.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	356.46
10-20	921.68
20-30	1119.04
30-40	754.24
40-50	181.50
50-60	16.19
60-70	13.47
70-80	14.14
80-90	7.25
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



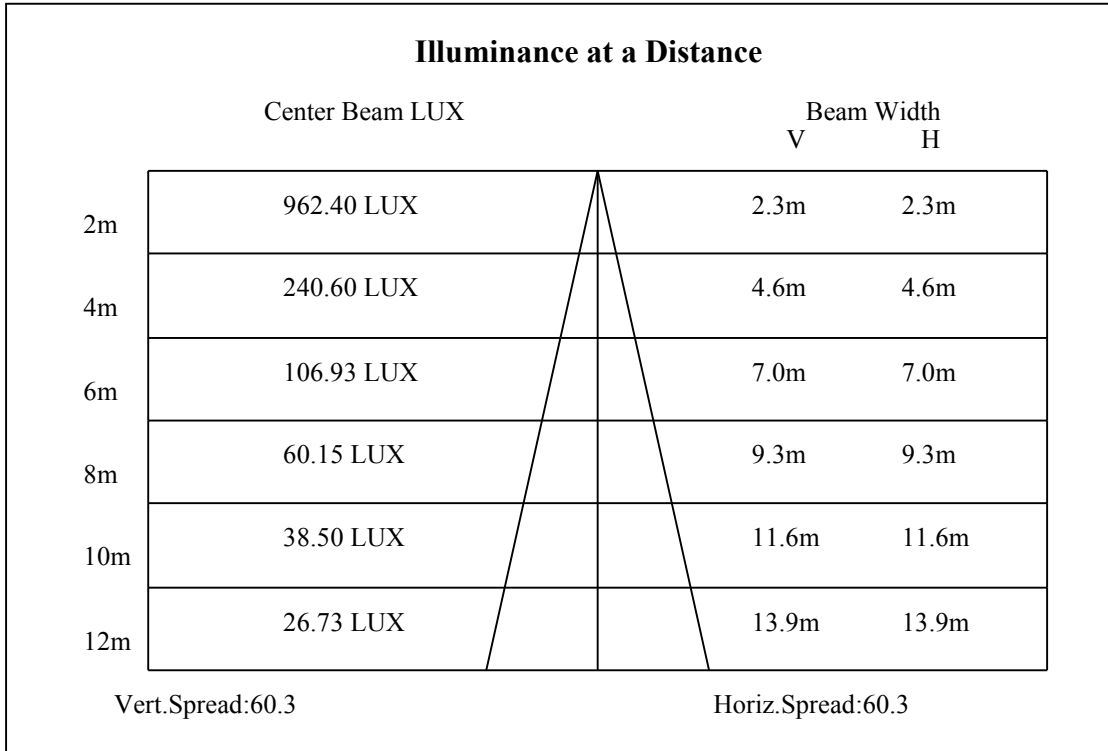
C0(Max): —————

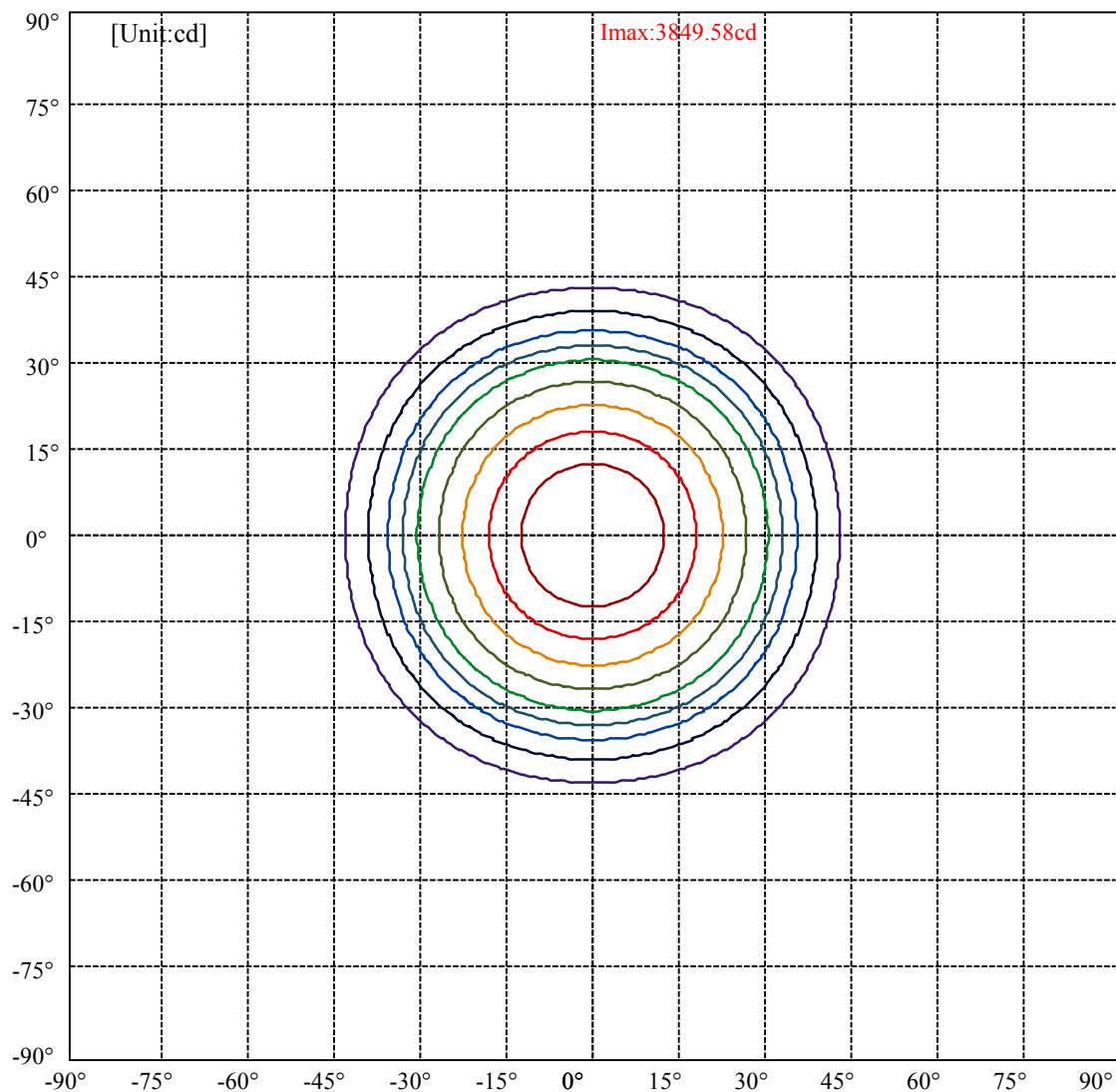
C0/C180: —————

C90/C270: —————

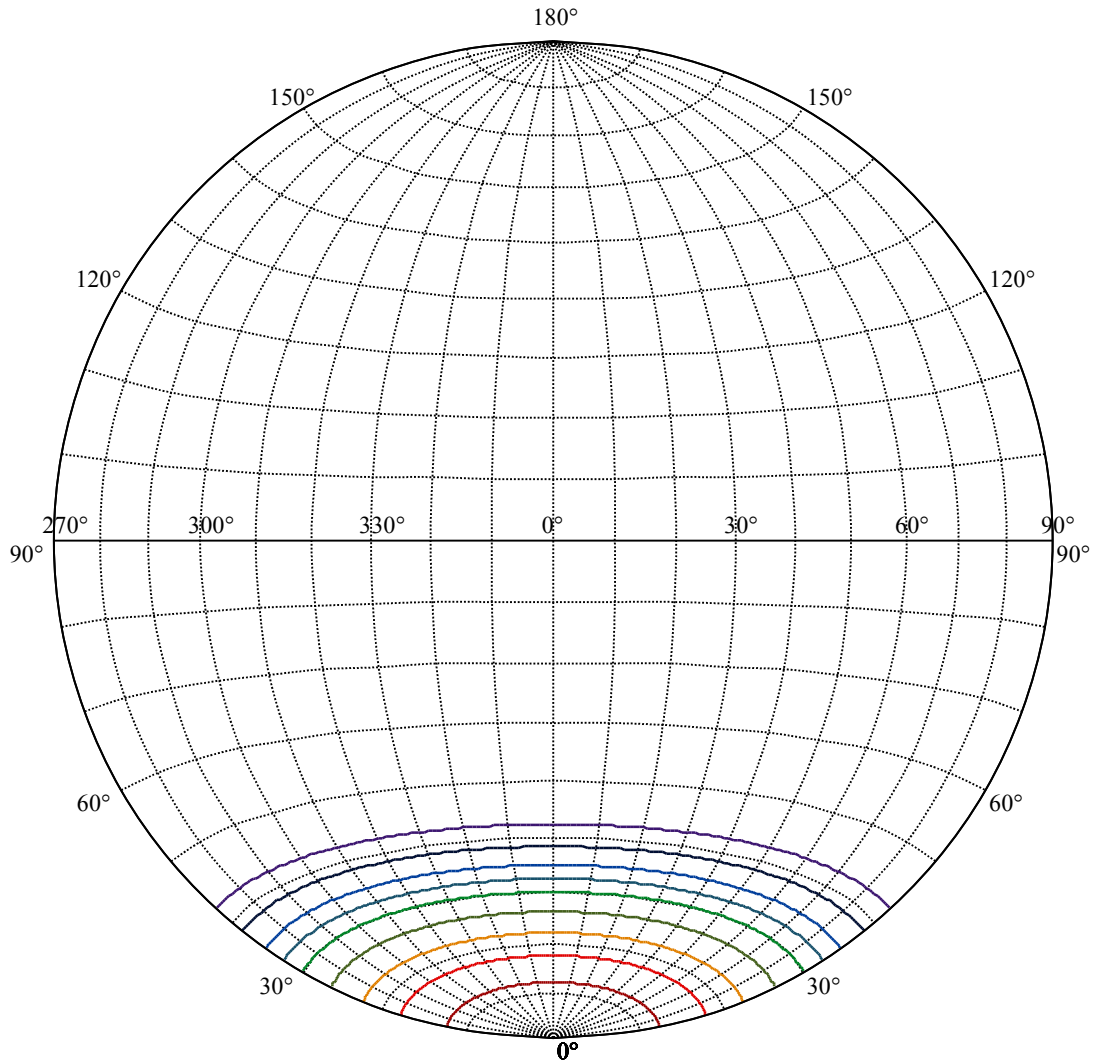
Field angle(10%Imax):C0/180Left:42.5 Right:42.5
:C90/270Left:42.5 Right:42.5

Beam Angle(50%Imax):C0/180Left:30.1 Right:30.1
:C90/270Left:30.1 Right:30.1





(10%Imax) 384.958	—
(20%Imax) 769.916	—
(30%Imax) 1154.87	—
(40%Imax) 1539.83	—
(50%Imax) 1924.79	—
(60%Imax) 2309.75	—
(70%Imax) 2694.71	—
(80%Imax) 3079.67	—
(90%Imax) 3464.62	—



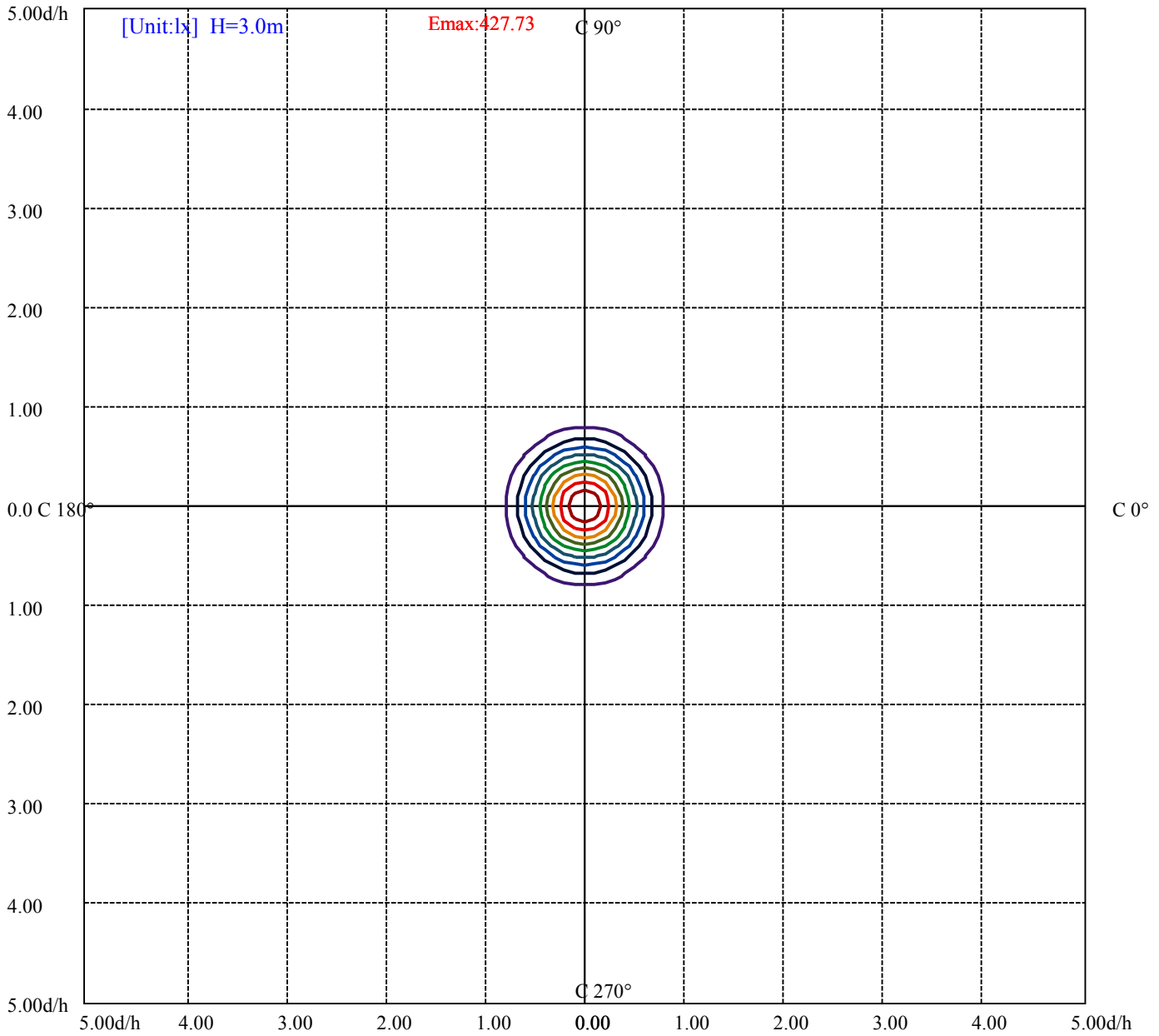
House

[Unit:cd]

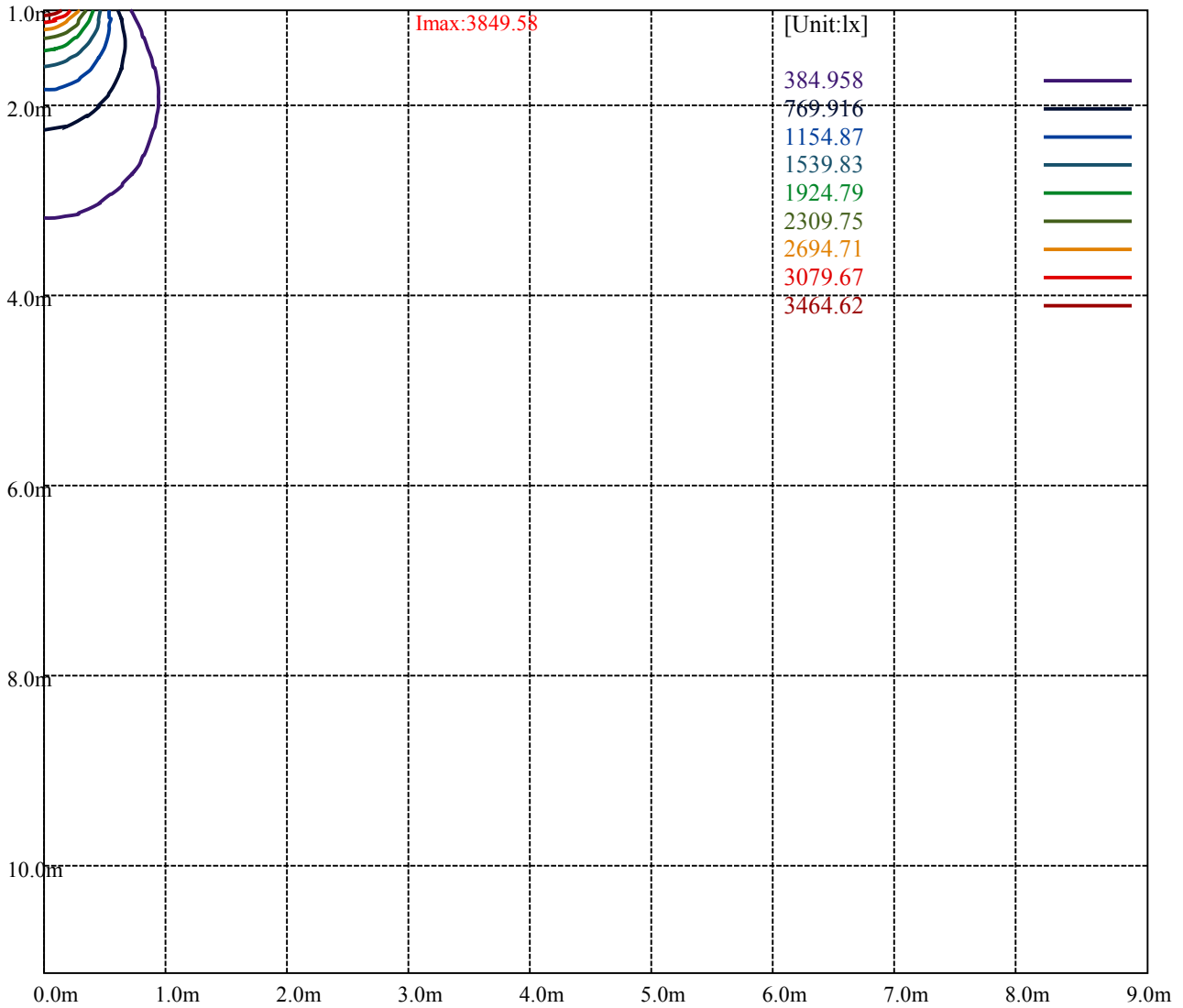
Road

Imax:3849.58

(10%Imax) 384.958	—
(20%Imax) 769.916	—
(30%Imax) 1154.87	—
(40%Imax) 1539.83	—
(50%Imax) 1924.79	—
(60%Imax) 2309.75	—
(70%Imax) 2694.71	—
(80%Imax) 3079.67	—
(90%Imax) 3464.62	—



- (10%Emax) 42.77311
- (20%Emax) 85.54623
- (30%Emax) 128.3189
- (40%Emax) 171.0922
- (50%Emax) 213.8656
- (60%Emax) 256.6389
- (70%Emax) 299.4122
- (80%Emax) 342.1844
- (90%Emax) 384.9578



Luminance Table

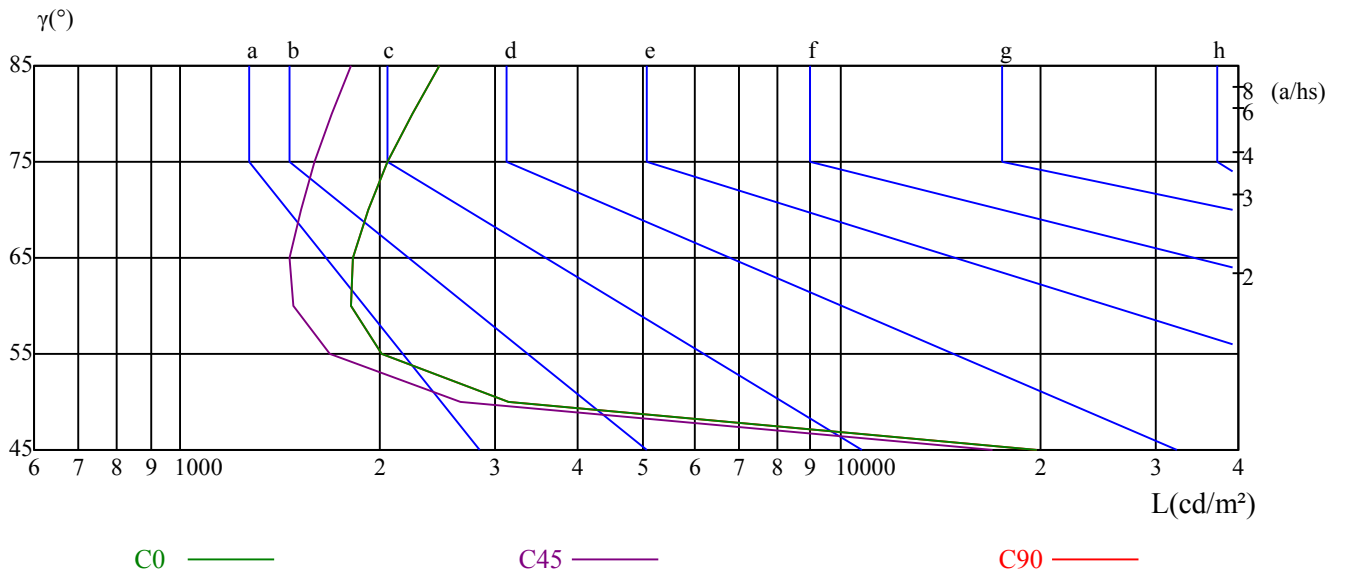
γ	45	50	55	60	65	70	75	80	85
C0	19799	3141	2017	1807	1823	1925	2062	2246	2471
C45	17001	2657	1679	1480	1467	1520	1593	1693	1810
C90	19799	3141	2017	1807	1823	1925	2062	2246	2471

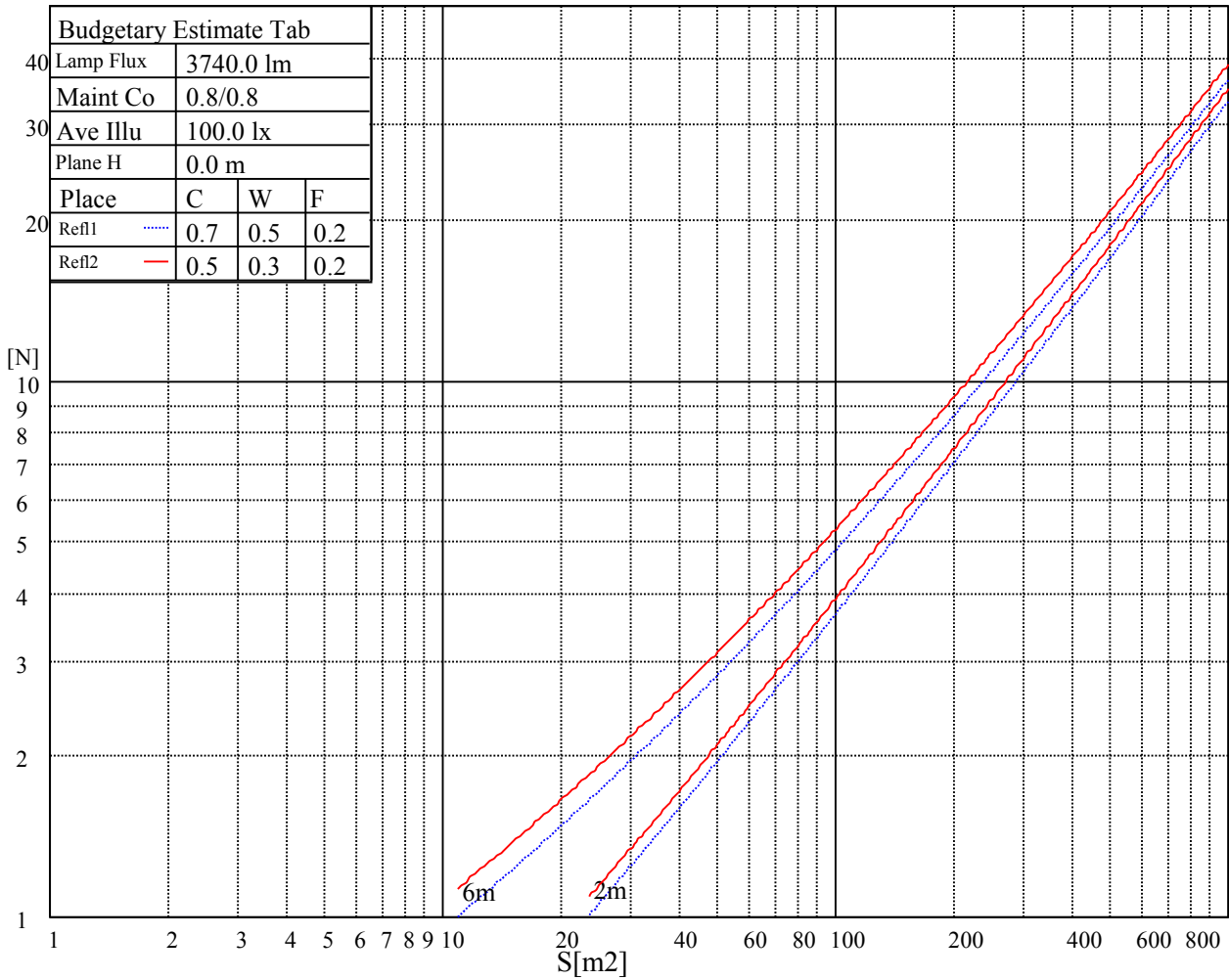
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4402	4402	4402	7139	7139	7139	21100	21100	21100

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	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.93	0.93	0.93	0.91
1	1.00	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.84
2	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.83	0.86	0.84	0.82	0.83	0.82	0.80	0.78
3	0.87	0.82	0.79	0.86	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.74	0.73
4	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.68
5	0.76	0.71	0.67	0.75	0.70	0.66	0.74	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.63
6	0.71	0.66	0.62	0.71	0.65	0.62	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.59
7	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.55
8	0.63	0.58	0.54	0.63	0.57	0.54	0.62	0.57	0.54	0.61	0.56	0.53	0.60	0.56	0.53	0.52
9	0.60	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.50	0.57	0.53	0.50	0.57	0.53	0.50	0.49
10	0.56	0.51	0.48	0.56	0.51	0.48	0.55	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.46

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	3841.51	3799.20	3602.11	3299.24	2938.48	2491.41	1979.21	1221.49	645.82
45.0	3860.44	3829.82	3660.01	3390.55	3004.73	2554.33	2072.19	1387.40	711.51
90.0	3852.09	3808.66	3614.36	3312.61	2920.66	2494.20	1991.46	1074.68	658.18
135.0	3844.29	3818.68	3643.31	3359.93	2974.11	2538.74	2071.63	1326.71	713.18
180.0	3841.51	3793.07	3577.06	3281.43	2861.65	2400.11	1897.37	1097.00	556.02
225.0	3860.44	3795.86	3588.19	3234.66	2857.19	2386.19	1801.61	1073.45	493.33
270.0	3852.09	3814.79	3607.68	3327.64	2893.38	2431.84	1954.72	1152.45	559.52
315.0	3844.29	3756.33	3550.89	3224.08	2803.74	2341.09	1787.14	1033.03	465.66
360.0	3841.51	3799.20	3602.11	3299.24	2938.48	2491.41	1979.21	1221.49	645.82

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	300.08	24.94	16.65	14.09	13.42	13.31	13.31	13.36	13.36
45.0	286.16	34.13	17.54	14.64	13.92	13.86	13.64	13.70	13.47
90.0	136.01	26.11	16.87	14.20	13.64	13.47	13.47	13.36	13.31
135.0	303.42	30.45	16.70	14.09	13.42	13.36	13.36	13.31	13.19
180.0	79.78	23.94	15.42	13.81	13.31	13.36	13.25	13.25	13.25
225.0	69.43	23.16	15.64	13.70	13.25	13.25	13.25	13.31	13.25
270.0	97.99	24.11	15.87	13.75	13.31	13.25	13.31	13.25	13.19
315.0	71.26	21.77	15.25	13.70	13.36	13.25	13.31	13.42	13.36
360.0	300.08	24.94	16.65	14.09	13.42	13.31	13.31	13.36	13.36

C/γ(°)	90.0
0.0	13.08
45.0	13.19
90.0	13.19
135.0	13.14
180.0	13.19
225.0	13.25
270.0	13.19
315.0	13.19
360.0	13.08