



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: NT2017071501
Test No: GC2017071501
LampCAT: PHILIPS SLM G6 1205 L13
Lamp flux(lm): 1932.0
Number of Lamps: 1
Length(mm): 140
Phm Type: C

Voltage(V): 35.2000
Current(A): 0.4000
Power (W): 14.0800
PF: 0.0000
Ballast type: DC
Width(mm): 140
Height(mm): 0

Photometric Results

Lumens(lm): 1765.90
Efficiency(%): 91.40%
Lumens(lm)/Power(W): 125.42
Central intensity(cd): 2176.159
Maximum intensity(cd): 2176.159
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=56.3
 [C90/270]Total=56.3
Field angle(10%Imax): [C0/180]Total=82.3
 [C90/270]Total=82.3
Maximum s/h(1/2): C0_180=0.86 C90_270=0.86
Maximum s/h(1/4): C0_180=0.87 C90_270=0.87
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.40%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.746%

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.46

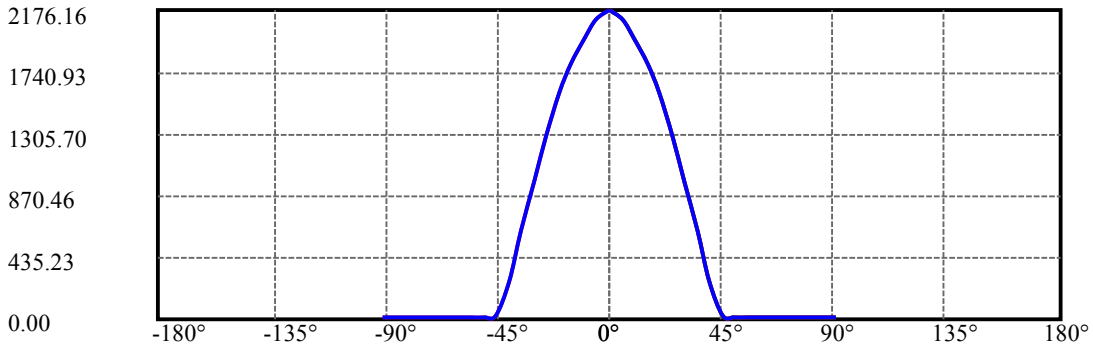
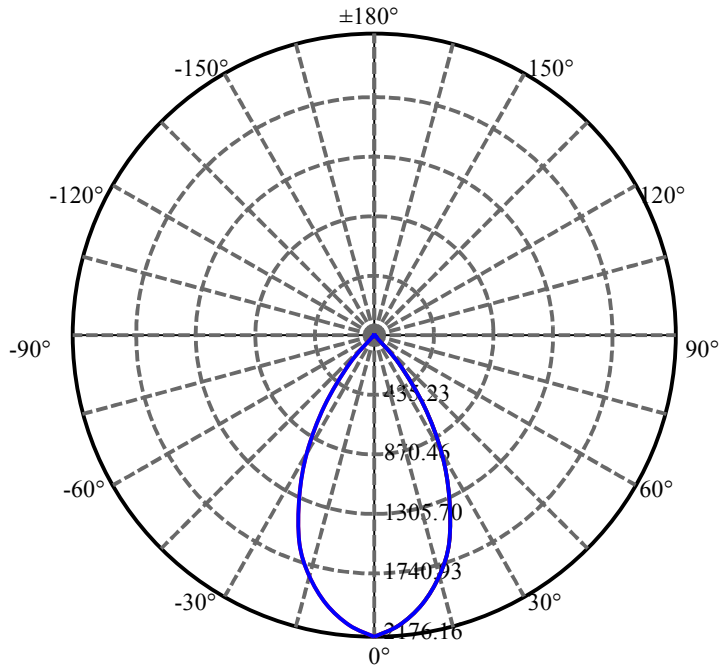
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2176.159	0.000	0	.000%	.000%
5.0	2104.270	51.171	51.171	2.649%	2.898%
10.0	1977.333	146.012	197.183	7.558%	11.166%
15.0	1794.792	223.760	420.943	11.582%	23.837%
20.0	1589.633	278.924	699.867	14.437%	39.632%
25.0	1290.413	302.064	1001.931	15.635%	56.738%
30.0	969.737	286.024	1287.955	14.805%	72.935%
35.0	620.647	234.195	1522.15	12.122%	86.197%
40.0	274.689	149.380	1671.53	7.732%	94.656%
45.0	28.658	56.167	1727.697	2.907%	97.837%
50.0	11.608	8.136	1735.834	.421%	98.297%
55.0	8.288	4.326	1740.16	.224%	98.542%
60.0	7.286	3.600	1743.76	.186%	98.746%
65.0	7.022	3.478	1747.238	.180%	98.943%
70.0	7.029	3.558	1750.796	.184%	99.145%
75.0	7.001	3.667	1754.463	.190%	99.352%
80.0	7.050	3.760	1758.223	.195%	99.565%
85.0	7.043	3.829	1762.052	.198%	99.782%
90.0	7.008	3.847	1765.899	.199%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1287.95	66.66%	72.93%
0-40	1671.53	86.52%	94.66%
0-60	1743.76	90.26%	98.75%
0-90	1762.05	91.20%	99.78%
0-120	1762.05	91.20%	99.78%
0-180	1765.90	91.40%	100.00%
60-90	21.89	1.13%	1.24%
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%
0-32.66	1412.72	73.12%	80.00%

ZONAL LUMEN SUMMARY

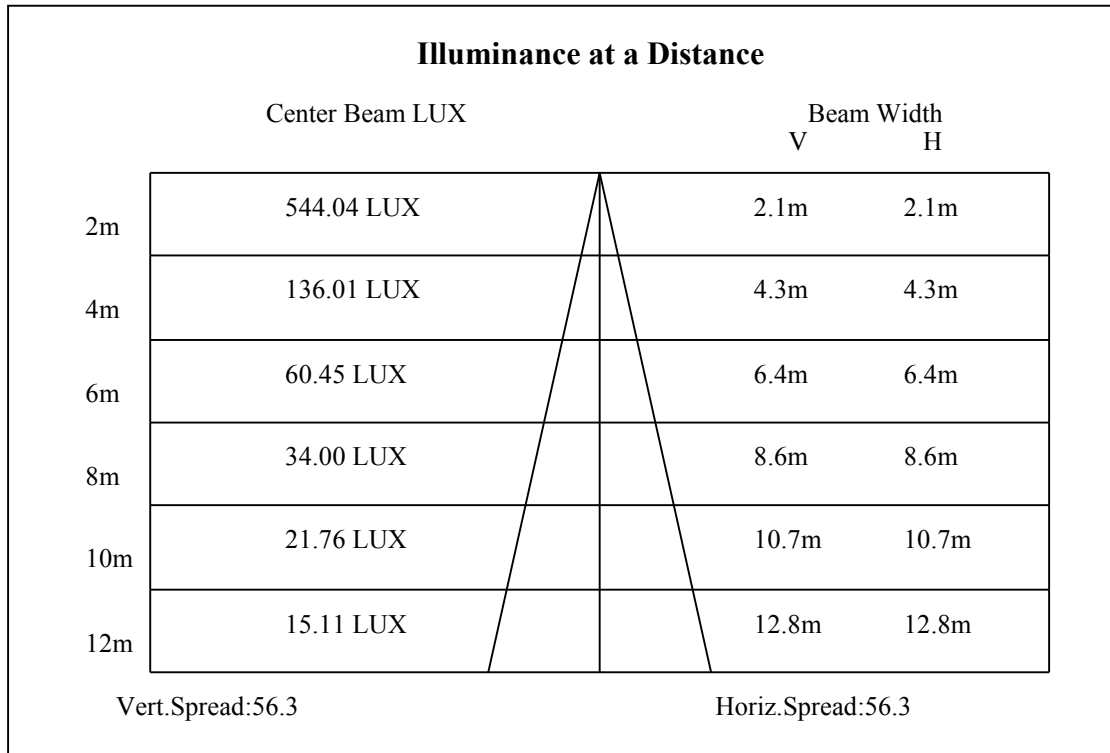
0-10	197.18
10-20	502.68
20-30	588.09
30-40	383.58
40-50	64.30
50-60	7.93
60-70	7.04
70-80	7.43
80-90	3.83
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

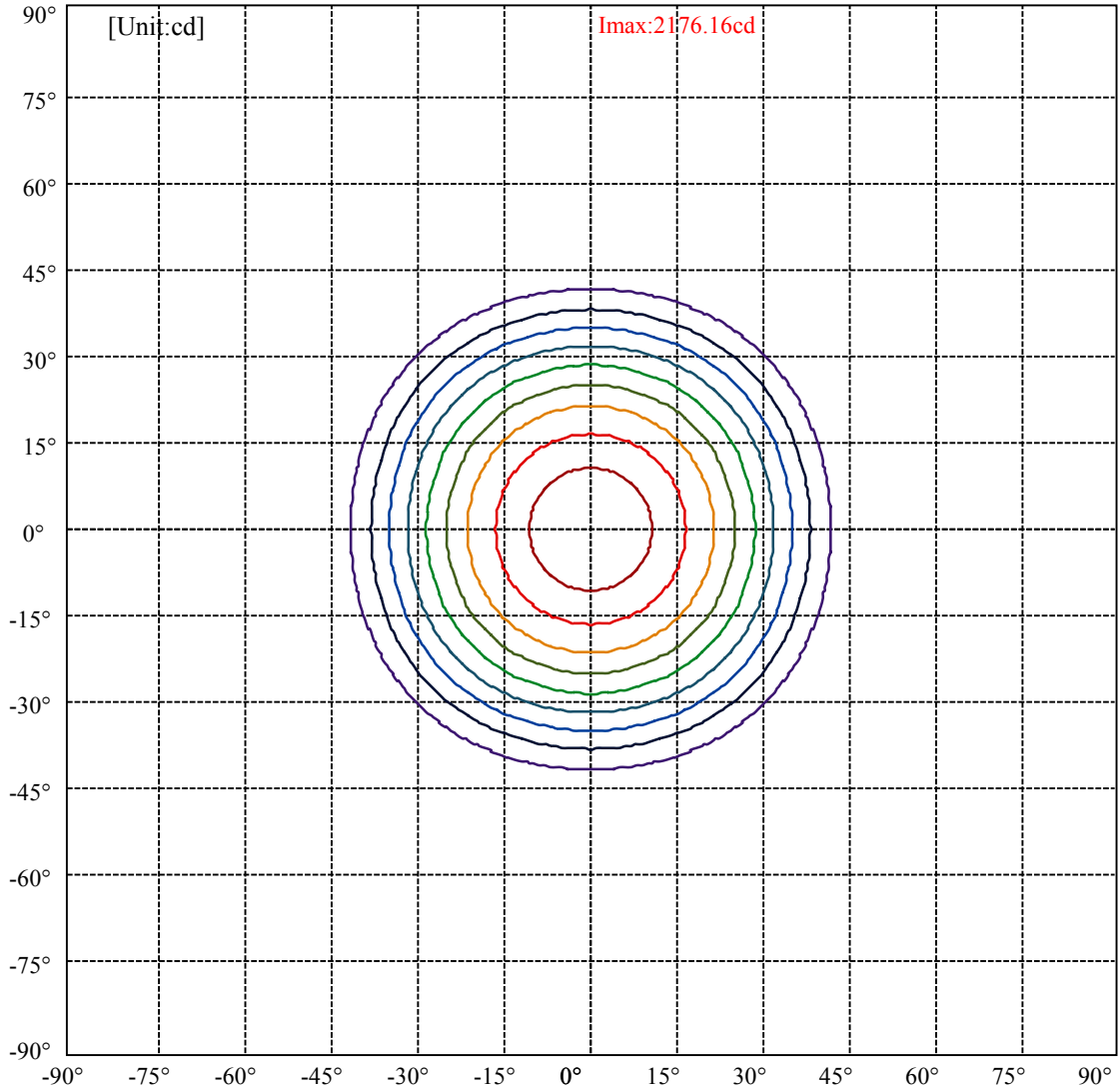


C0(Max): —————
C0/C180: —————
C90/C270: —————

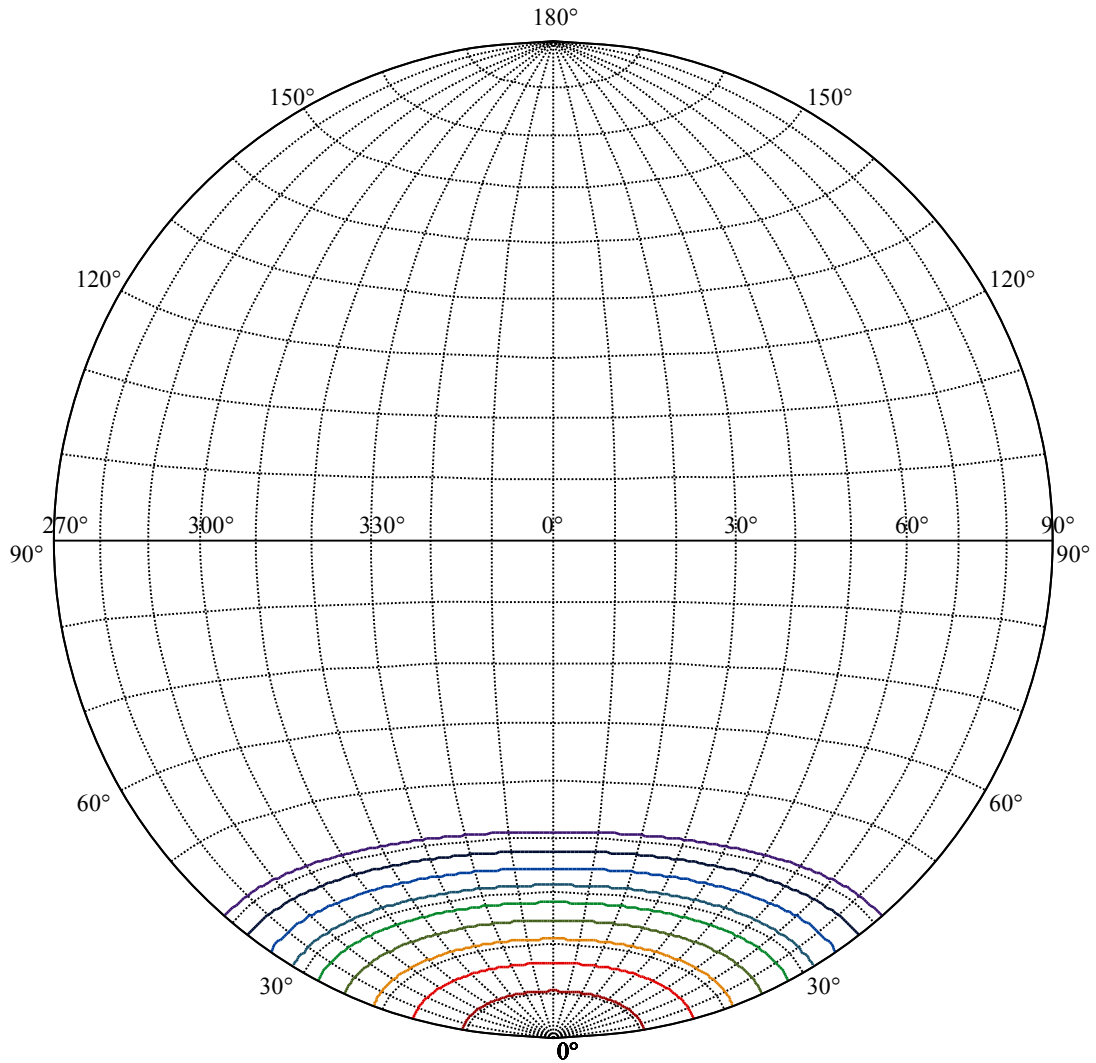
Field angle(10%Imax):C0/180Left:41.2 Right:41.2
:C90/270Left:41.2 Right:41.2

Beam Angle(50%Imax):C0/180Left:28.2 Right:28.2
:C90/270Left:28.2 Right:28.2





(10%Imax) 217.616	—
(20%Imax) 435.232	—
(30%Imax) 652.848	—
(40%Imax) 870.464	—
(50%Imax) 1088.08	—
(60%Imax) 1305.7	—
(70%Imax) 1523.31	—
(80%Imax) 1740.93	—
(90%Imax) 1958.54	—



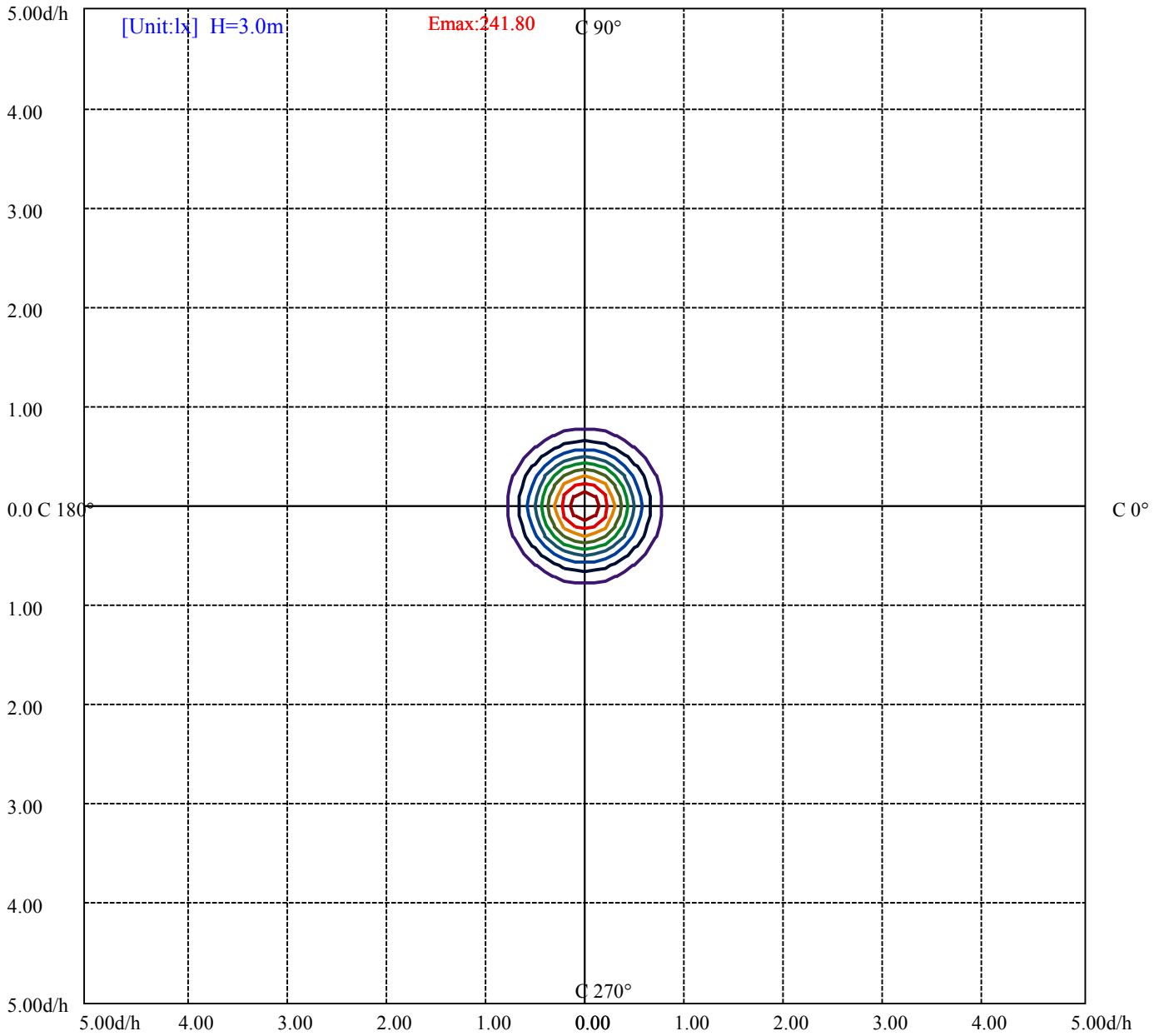
House

[Unit:cd]

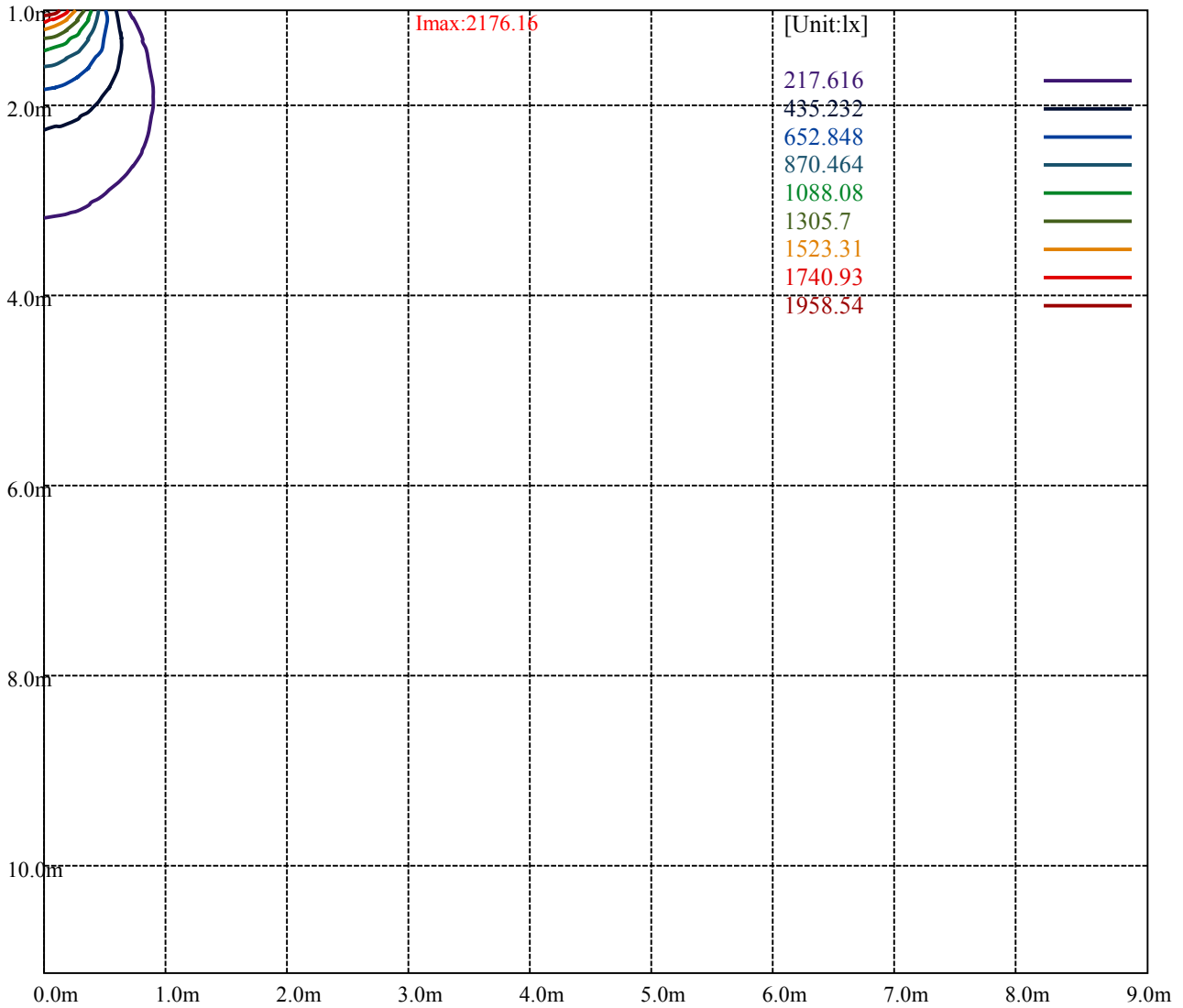
Road

Imax:2176.16

(10%Imax) 217.616	—
(20%Imax) 435.232	—
(30%Imax) 652.848	—
(40%Imax) 870.464	—
(50%Imax) 1088.08	—
(60%Imax) 1305.7	—
(70%Imax) 1523.31	—
(80%Imax) 1740.93	—
(90%Imax) 1958.54	—



- (10%Emax) 24.17956
- (20%Emax) 48.359
- (30%Emax) 72.53855
- (40%Emax) 96.71811
- (50%Emax) 120.8978
- (60%Emax) 145.0767
- (70%Emax) 169.2567
- (80%Emax) 193.4367
- (90%Emax) 217.6156



Luminance Table

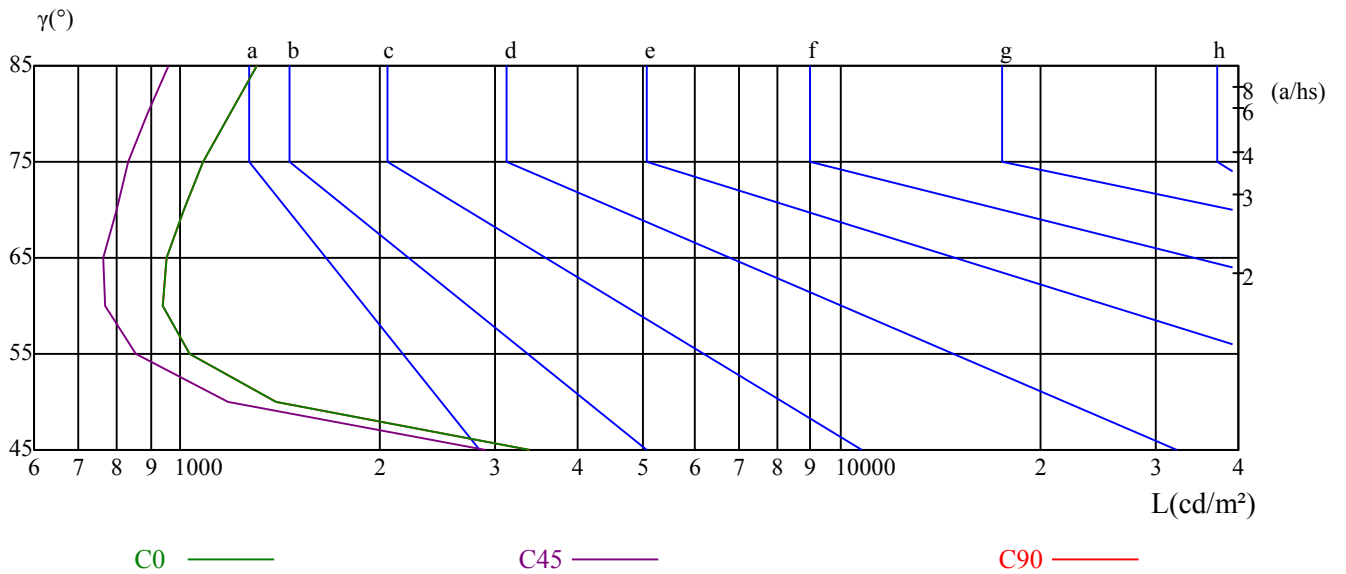
γ	45	50	55	60	65	70	75	80	85
C0	3377	1398	1029	941	952	1011	1081	1184	1309
C45	2900	1183	857	770	766	798	835	893	958
C90	3377	1398	1029	941	952	1011	1081	1184	1309

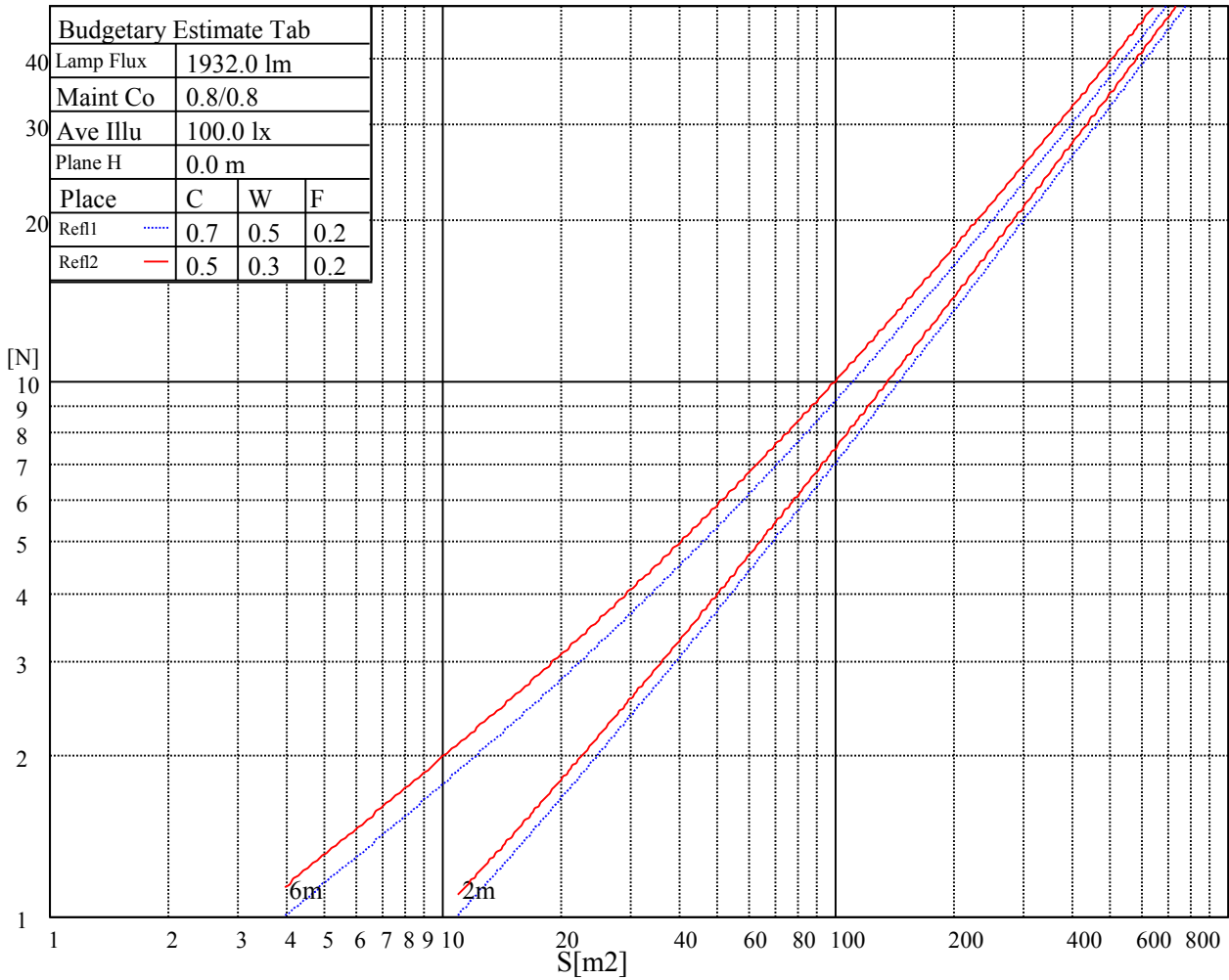
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2298	2298	2298	3740	3740	3740	11174	11174	11174

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	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.94	0.91	0.87	0.93	0.89	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.79
3	0.88	0.83	0.80	0.87	0.83	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.74
4	0.82	0.77	0.74	0.81	0.77	0.73	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.69
5	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
6	0.73	0.67	0.63	0.72	0.67	0.63	0.71	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
7	0.68	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.57
8	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.53
9	0.61	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.50
10	0.58	0.53	0.49	0.57	0.52	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.47

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	2175.18	2121.74	2002.04	1827.22	1645.17	1369.58	1026.63	670.32	324.02
45.0	2174.07	2127.31	2004.82	1825.55	1629.02	1364.57	1024.96	693.70	342.95
90.0	2181.31	2098.91	1983.11	1797.16	1580.03	1310.01	953.14	606.07	281.77
135.0	2174.07	2117.84	2004.27	1826.67	1619.56	1385.73	1023.85	666.42	315.12
180.0	2175.18	2087.22	1950.82	1770.99	1554.98	1269.37	932.60	570.10	225.93
225.0	2174.07	2092.23	1946.92	1749.28	1548.85	1107.02	895.96	558.58	205.27
270.0	2181.31	2104.48	1967.52	1794.93	1585.04	1308.34	972.63	630.79	287.28
315.0	2174.07	2084.44	1959.17	1766.54	1554.42	1208.68	928.14	569.21	215.18
360.0	2175.18	2121.74	2002.04	1827.22	1645.17	1369.58	1026.63	670.32	324.02
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	33.85	12.30	8.57	7.29	6.90	6.96	6.90	7.01	7.01
45.0	32.85	13.14	8.63	7.52	7.13	7.13	7.07	7.07	7.07
90.0	27.28	10.97	8.30	7.29	7.07	7.07	7.01	7.07	7.01
135.0	32.90	12.92	8.74	7.40	7.13	7.01	7.07	7.01	7.01
180.0	24.50	11.41	8.13	7.24	7.01	7.07	7.01	7.01	7.01
225.0	22.33	10.36	7.96	7.13	7.01	7.07	7.01	7.18	7.18
270.0	28.95	11.02	8.07	7.24	7.01	6.90	6.96	7.01	7.07
315.0	26.61	10.75	7.91	7.18	6.90	7.01	6.96	7.01	6.96
360.0	33.85	12.30	8.57	7.29	6.90	6.96	6.90	7.01	7.01
C/γ(°)	90.0								
0.0	6.96								
45.0	7.01								
90.0	7.01								
135.0	6.96								
180.0	6.96								
225.0	7.18								
270.0	6.96								
315.0	7.01								
360.0	6.96								