



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

Nata

LumCAT: 1-1062-N	
Luminaire: 92.70.361.000	
Report No: 220519-B021	Voltage(V): 37.2300
Test No: 220519-C021	Current(A): 0.3700
LampCAT: Bridgelux C10-(30C2000C)	Power (W): 13.7750
Lamp flux(lm): 1425.8	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1217.56
Efficiency(%): 85.39%
Lumens(lm)/Power(W): 88.39
Central intensity(cd): 3121.342
Maximum intensity(cd): 3121.342
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.9
 [C90/270]Total=34.9
Field angle(10%Imax): [C0/180]Total=58.8
 [C90/270]Total=58.8
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(%): 85.39%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.084%

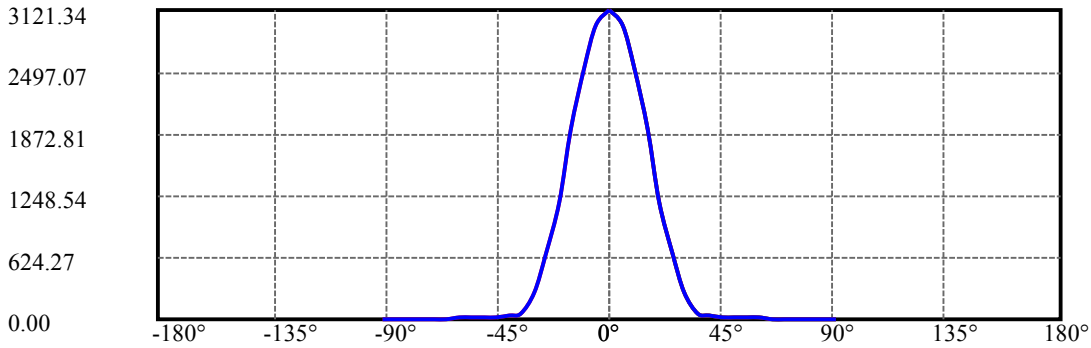
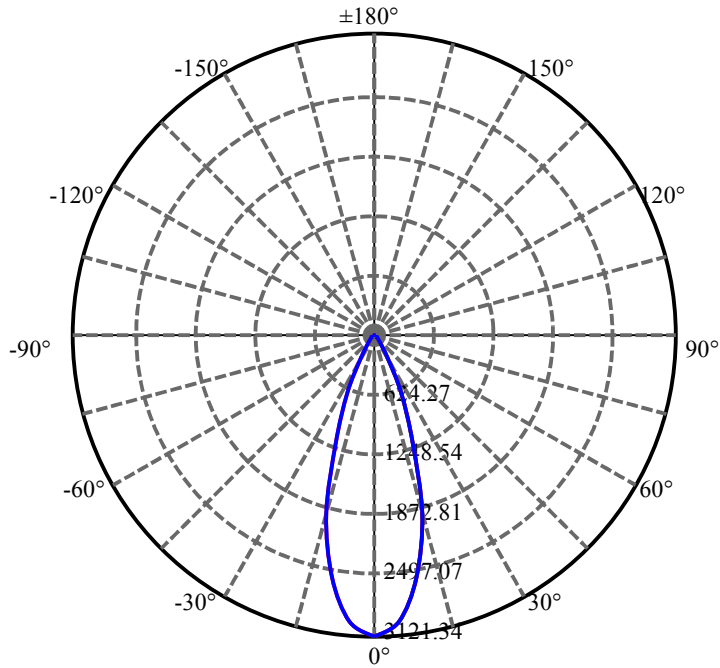
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3121.342	0.000	0	.000%	.000%
5.0	2970.093	72.821	72.821	5.107%	5.981%
10.0	2538.826	197.071	269.893	13.822%	22.167%
15.0	1913.811	264.127	534.02	18.525%	43.860%
20.0	1190.718	255.857	789.877	17.945%	64.874%
25.0	650.657	193.126	983.003	13.545%	80.736%
30.0	267.148	116.149	1099.152	8.146%	90.275%
35.0	53.710	47.249	1146.401	3.314%	94.156%
40.0	34.171	14.662	1161.063	1.028%	95.360%
45.0	24.387	10.842	1171.906	.760%	96.250%
50.0	18.972	8.761	1180.667	.614%	96.970%
55.0	14.908	7.367	1188.033	.517%	97.575%
60.0	11.906	6.198	1194.231	.435%	98.084%
65.0	9.538	5.213	1199.444	.366%	98.512%
70.0	8.022	4.446	1203.891	.312%	98.877%
75.0	6.969	3.918	1207.809	.275%	99.199%
80.0	6.274	3.543	1211.352	.249%	99.490%
85.0	5.662	3.243	1214.596	.227%	99.757%
90.0	5.161	2.963	1217.559	.208%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1099.15	77.09%	90.28%
0-40	1161.06	81.43%	95.36%
0-60	1194.23	83.76%	98.08%
0-90	1214.60	85.19%	99.76%
0-120	1214.60	85.19%	99.76%
0-180	1217.56	85.39%	100.00%
60-90	26.56	1.86%	2.18%
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%
0-24.77	974.05	68.32%	80.00%

ZONAL LUMEN SUMMARY

0-10	269.89
10-20	519.98
20-30	309.28
30-40	61.91
40-50	19.60
50-60	13.56
60-70	9.66
70-80	7.46
80-90	3.24
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: ———

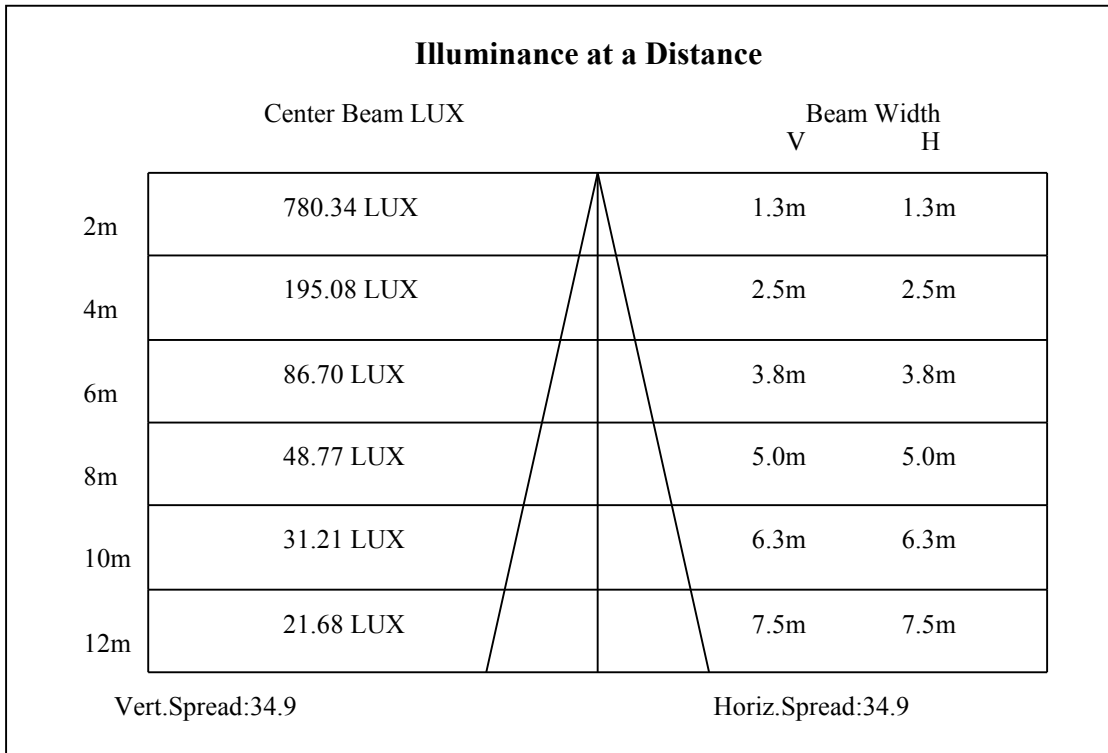
C90/C270: ———

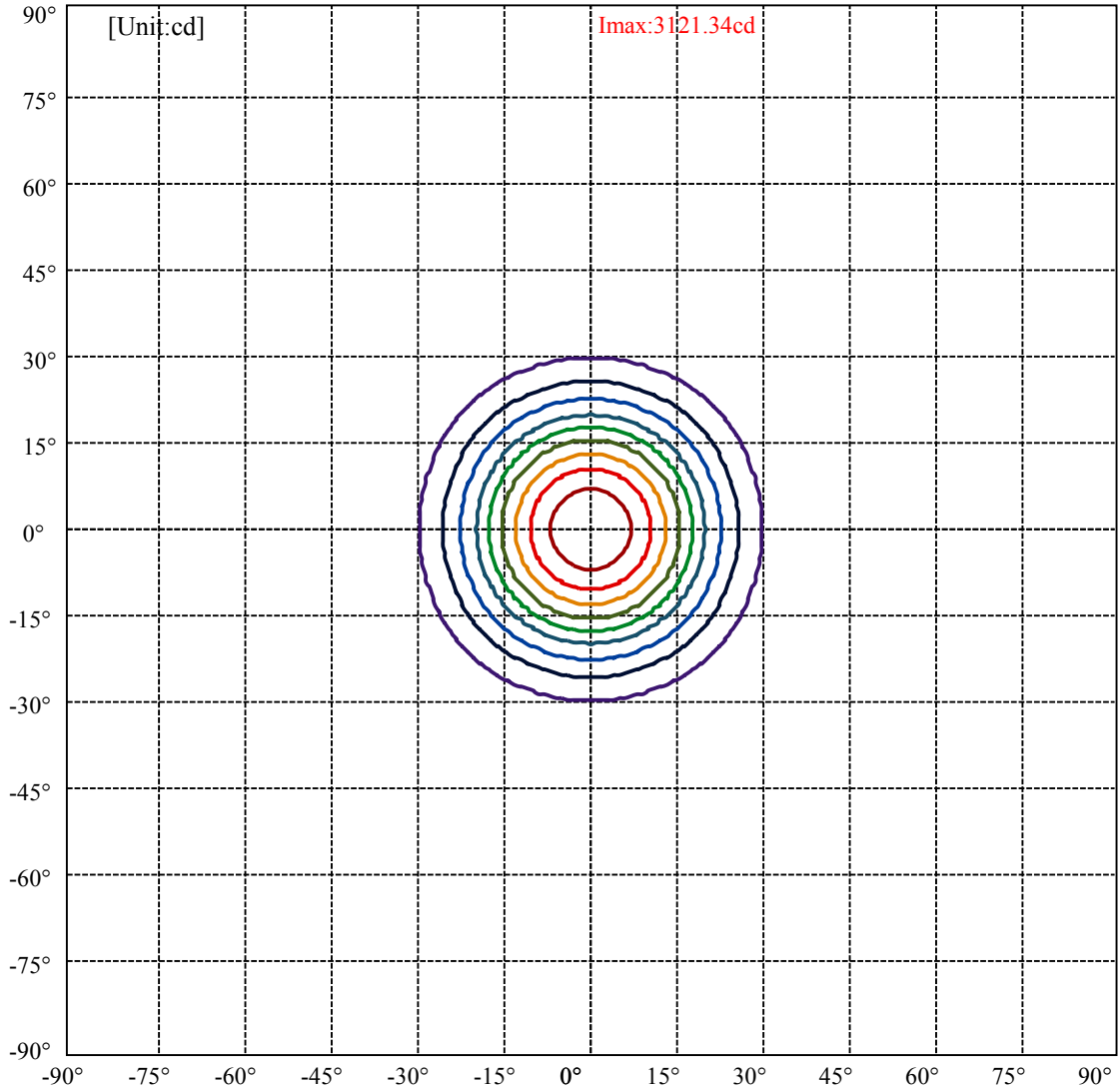
Field angle(10%Imax):C0/180Left:29.4 Right:29.4

:C90/270Left:29.4 Right:29.4

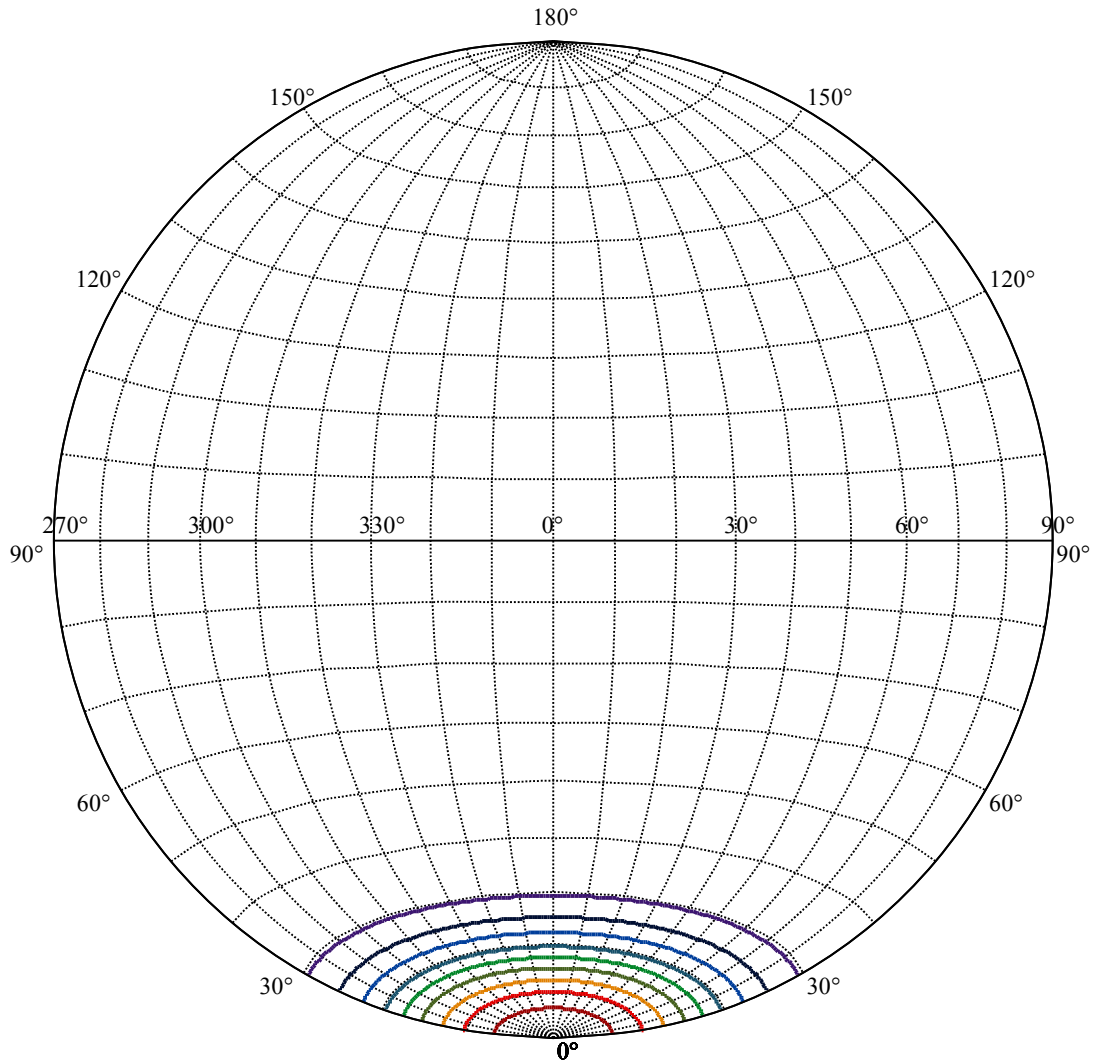
Beam Angle(50%Imax):C0/180Left:17.4 Right:17.4

:C90/270Left:17.4 Right:17.4





(10%Imax) 312.134	—
(20%Imax) 624.268	—
(30%Imax) 936.403	—
(40%Imax) 1248.54	—
(50%Imax) 1560.67	—
(60%Imax) 1872.81	—
(70%Imax) 2184.94	—
(80%Imax) 2497.07	—
(90%Imax) 2809.21	—



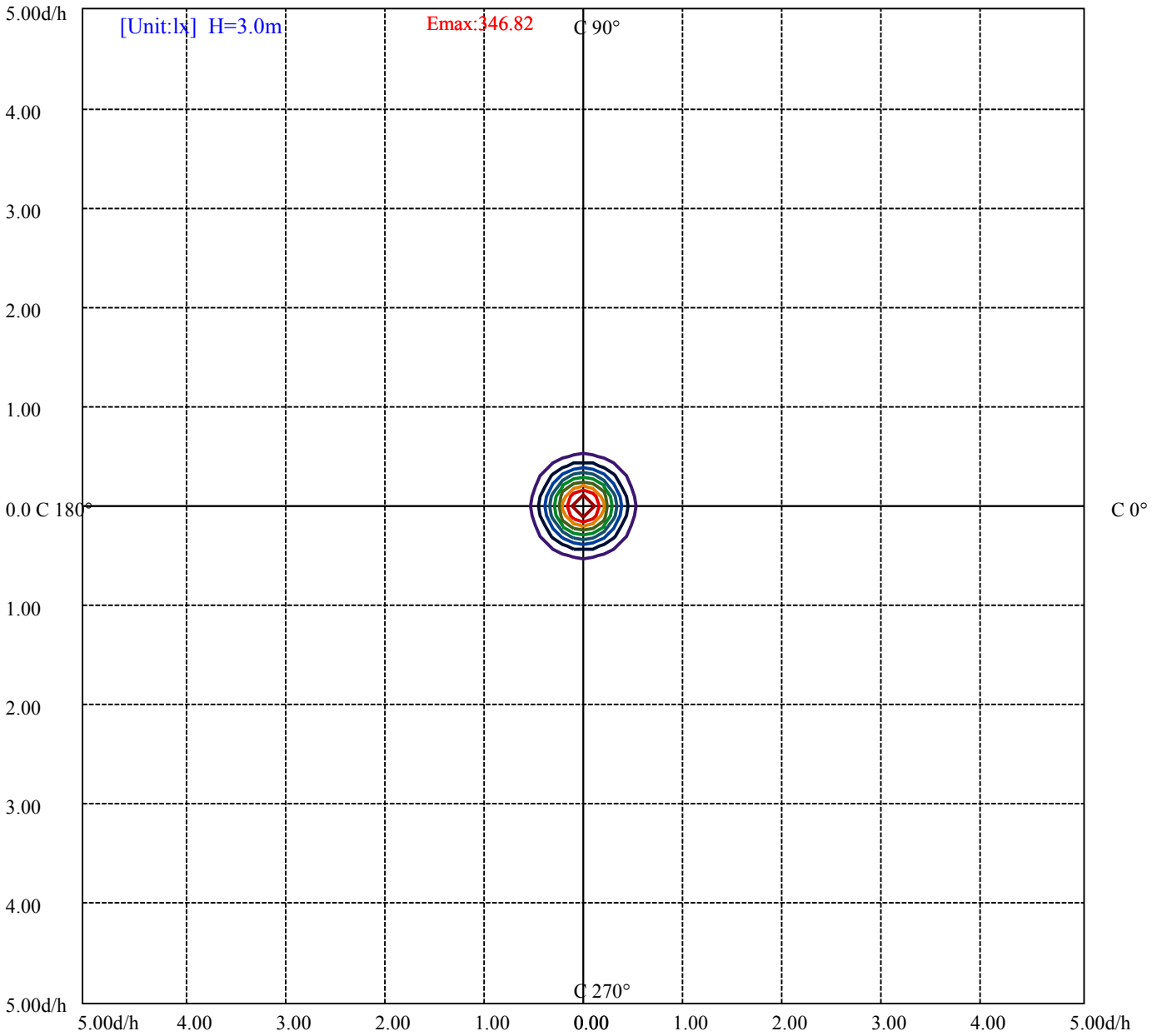
House

[Unit:cd]

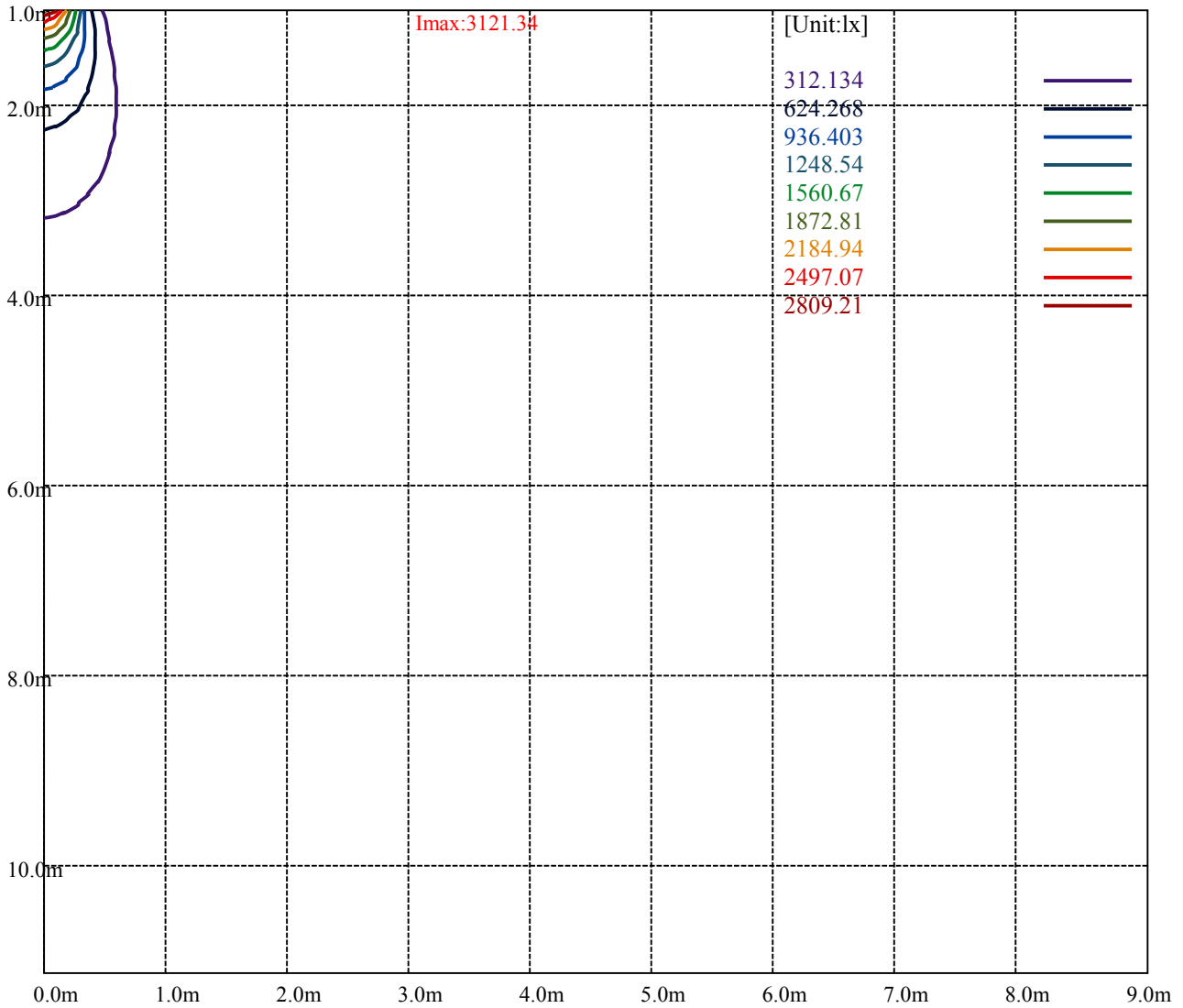
Road

Imax:3121.34

(10%Imax) 312.134	—
(20%Imax) 624.268	—
(30%Imax) 936.403	—
(40%Imax) 1248.54	—
(50%Imax) 1560.67	—
(60%Imax) 1872.81	—
(70%Imax) 2184.94	—
(80%Imax) 2497.07	—
(90%Imax) 2809.21	—



- (10%Emax) 34.68156
- (20%Emax) 69.36301
- (30%Emax) 104.0446
- (40%Emax) 138.7256
- (50%Emax) 173.4078
- (60%Emax) 208.0889
- (70%Emax) 242.7711
- (80%Emax) 277.4522
- (90%Emax) 312.1333



Luminance Table

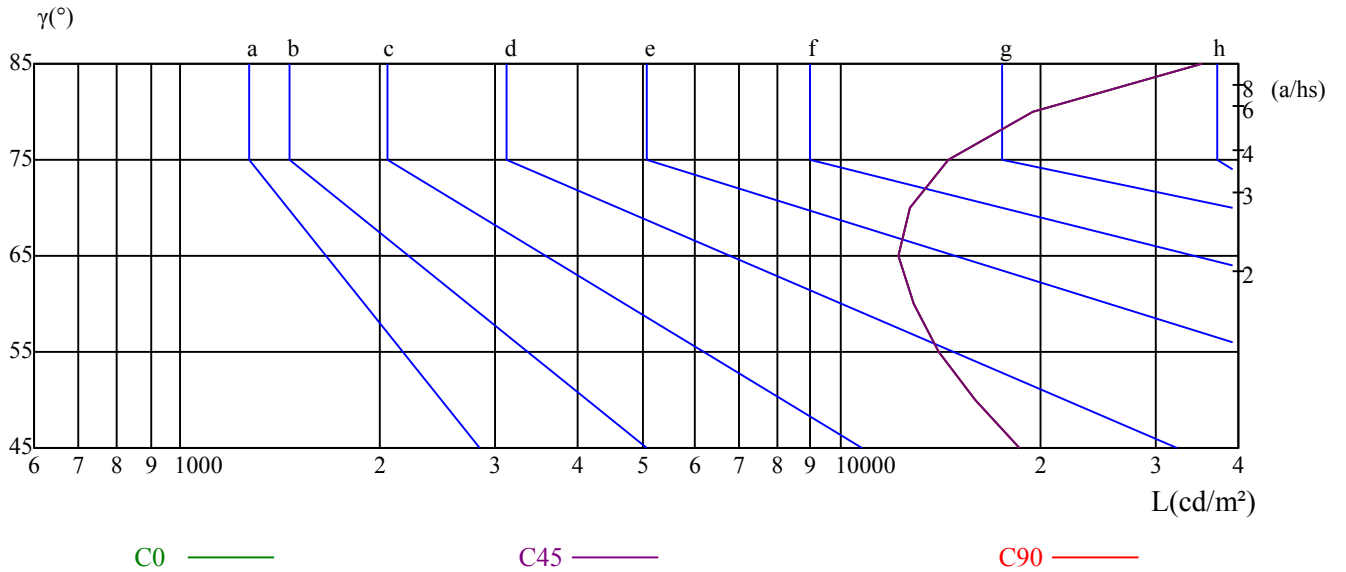
γ	45	50	55	60	65	70	75	80	85
C0	18652	15962	14057	12878	12206	12685	14562	19541	35132
C45	18652	15962	14057	12878	12206	12685	14562	19541	35132
C90	18652	15962	14057	12878	12206	12685	14562	19541	35132

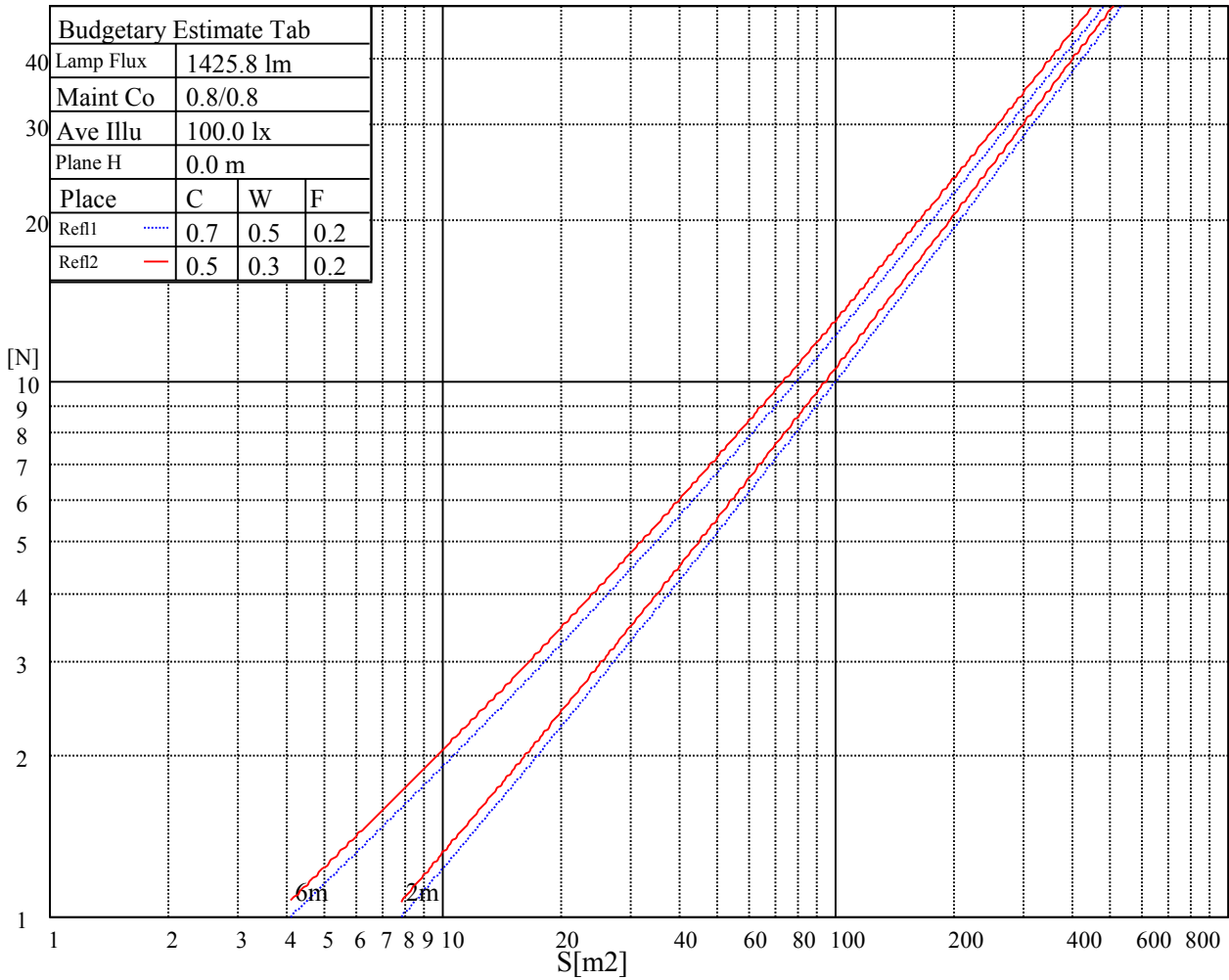
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
12206	12206	12206	14562	14562	14562	35132	35132	35132

Glare Table

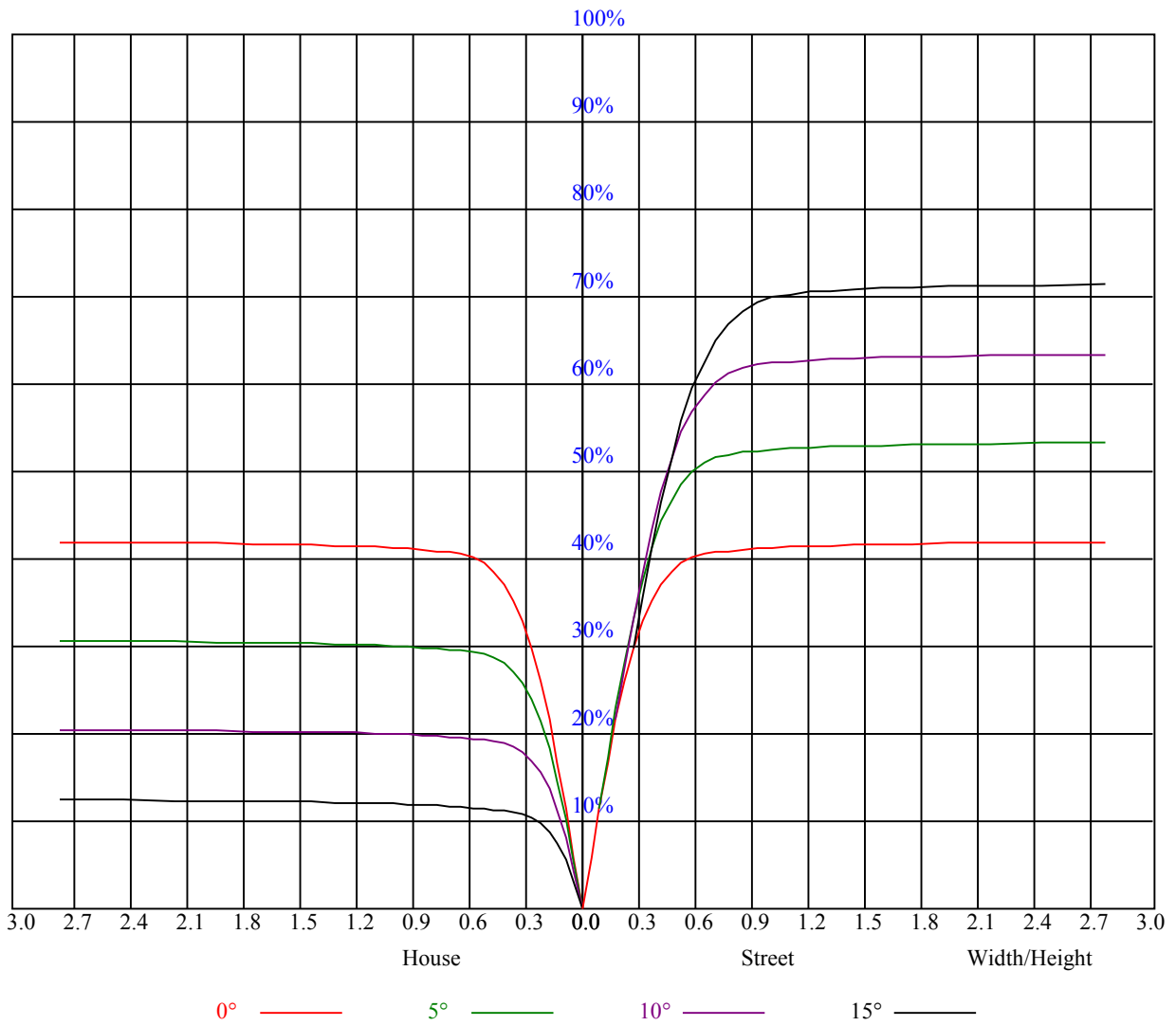
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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



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	3122.09	3036.04	2654.22	2142.14	1371.93	758.86	314.90	59.16	36.87
45.0	3125.08	2900.41	2422.98	1786.01	1088.70	550.32	308.92	47.32	31.91
90.0	3110.74	2835.87	2317.81	1662.92	982.58	445.34	128.17	44.46	30.23
135.0	3127.47	2975.10	2504.84	1869.67	1205.81	611.87	319.08	52.10	33.34
180.0	3122.09	2914.75	2424.18	1738.81	1079.20	554.87	158.64	45.71	30.65
225.0	3125.08	3034.25	2654.22	2026.22	1177.97	753.72	301.75	58.68	36.45
270.0	3110.74	3066.52	2738.48	2143.93	1452.00	834.15	363.90	67.76	38.90
315.0	3127.47	2997.80	2593.87	1940.77	1167.57	696.12	241.82	54.49	35.02
360.0	3122.09	3036.04	2654.22	2142.14	1371.93	758.86	314.90	59.16	36.87
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	25.87	20.14	15.77	12.49	9.98	8.31	7.11	6.39	5.80
45.0	23.60	18.40	14.34	11.65	9.26	7.77	6.75	6.09	5.50
90.0	22.53	17.75	13.86	11.17	9.02	7.71	6.75	6.21	5.44
135.0	23.60	18.34	14.58	11.53	9.26	7.89	6.87	6.15	5.50
180.0	22.53	17.81	14.16	11.23	9.02	7.71	6.69	6.04	5.50
225.0	25.34	19.48	15.30	12.25	9.80	8.13	7.11	6.33	5.74
270.0	26.83	20.44	16.01	12.91	10.22	8.54	7.41	6.63	5.98
315.0	24.80	19.42	15.24	12.01	9.74	8.13	7.05	6.33	5.86
360.0	25.87	20.14	15.77	12.49	9.98	8.31	7.11	6.39	5.80
C/ γ (°)	90.0								
0.0	5.14								
45.0	5.14								
90.0	5.14								
135.0	5.14								
180.0	5.14								
225.0	5.20								
270.0	5.20								
315.0	5.20								
360.0	5.14								