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Nata

LumCAT: 1-1007-M	
Luminaire: BJB 47.360.1020	
Report No: NATA0100	Voltage(V): 34.7000
Test No: GC2019101804	Current(A): 0.2970
LampCAT: CITIZEN CLU028	Power (W): 10.3000
Lamp flux(lm): 1562.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1128.36
Efficiency(%): 72.24%
Lumens(lm)/Power(W): 109.55
Central intensity(cd): 3621.234
Maximum intensity(cd): 3621.234
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.7
 [C90/270]Total=33.7
Field angle(10%Imax): [C0/180]Total=49.4
 [C90/270]Total=49.4
Maximum s/h(1/2): C0_180=0.56 C90_270=0.56
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 72.24%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.534%

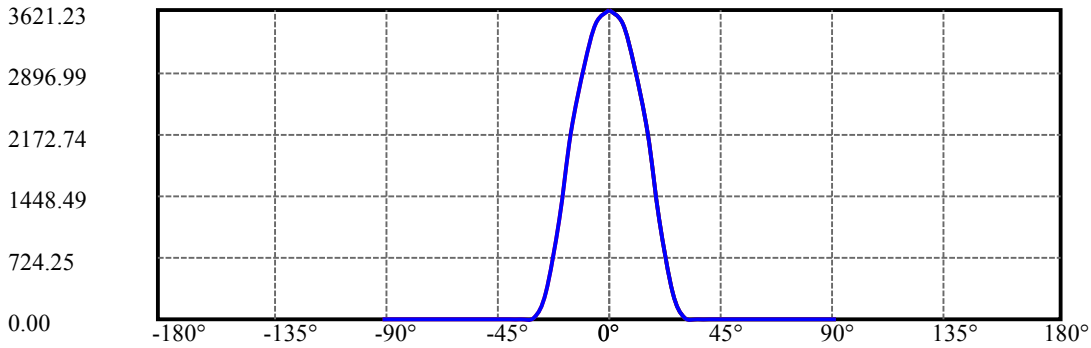
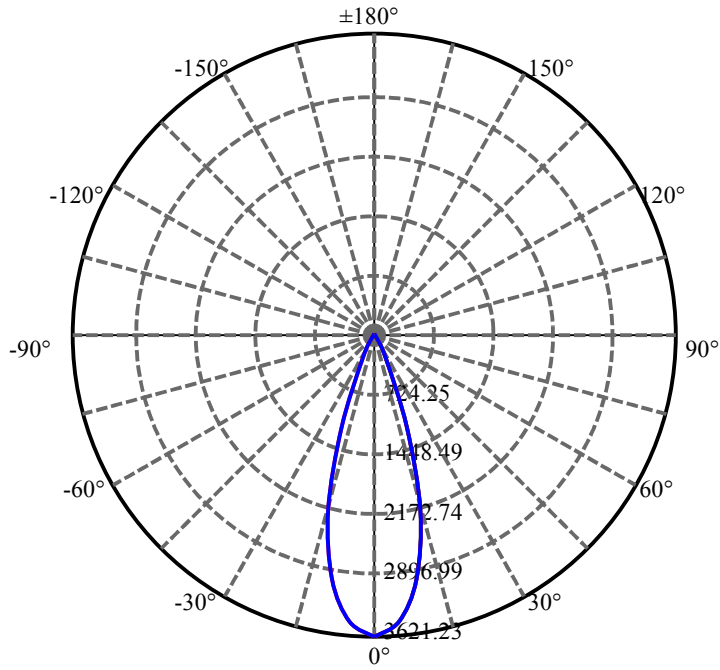
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3621.234	0.000	0	.000%	.000%
5.0	3453.750	84.579	84.579	5.415%	7.496%
10.0	2967.750	229.717	314.297	14.707%	27.854%
15.0	2176.875	305.176	619.472	19.537%	54.900%
20.0	1177.038	276.410	895.882	17.696%	79.397%
25.0	308.862	155.843	1051.725	9.977%	93.209%
30.0	24.413	42.176	1093.902	2.700%	96.946%
35.0	9.436	4.984	1098.886	.319%	97.388%
40.0	7.291	2.791	1101.677	.179%	97.636%
45.0	6.370	2.530	1104.206	.162%	97.860%
50.0	5.934	2.486	1106.693	.159%	98.080%
55.0	5.688	2.527	1109.22	.162%	98.304%
60.0	5.527	2.592	1111.812	.166%	98.534%
65.0	5.421	2.661	1114.474	.170%	98.770%
70.0	5.351	2.728	1117.201	.175%	99.011%
75.0	5.295	2.783	1119.984	.178%	99.258%
80.0	5.196	2.807	1122.791	.180%	99.507%
85.0	5.084	2.793	1125.584	.179%	99.754%
90.0	5.041	2.772	1128.356	.177%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1093.90	70.03%	96.95%
0-40	1101.68	70.53%	97.64%
0-60	1111.81	71.18%	98.53%
0-90	1125.58	72.06%	99.75%
0-120	1125.58	72.06%	99.75%
0-180	1128.36	72.24%	100.00%
60-90	16.36	1.05%	1.45%
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%
0-20.22	902.68	57.79%	80.00%

ZONAL LUMEN SUMMARY

0-10	314.30
10-20	581.59
20-30	198.02
30-40	7.78
40-50	5.02
50-60	5.12
60-70	5.39
70-80	5.59
80-90	2.79
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: —————

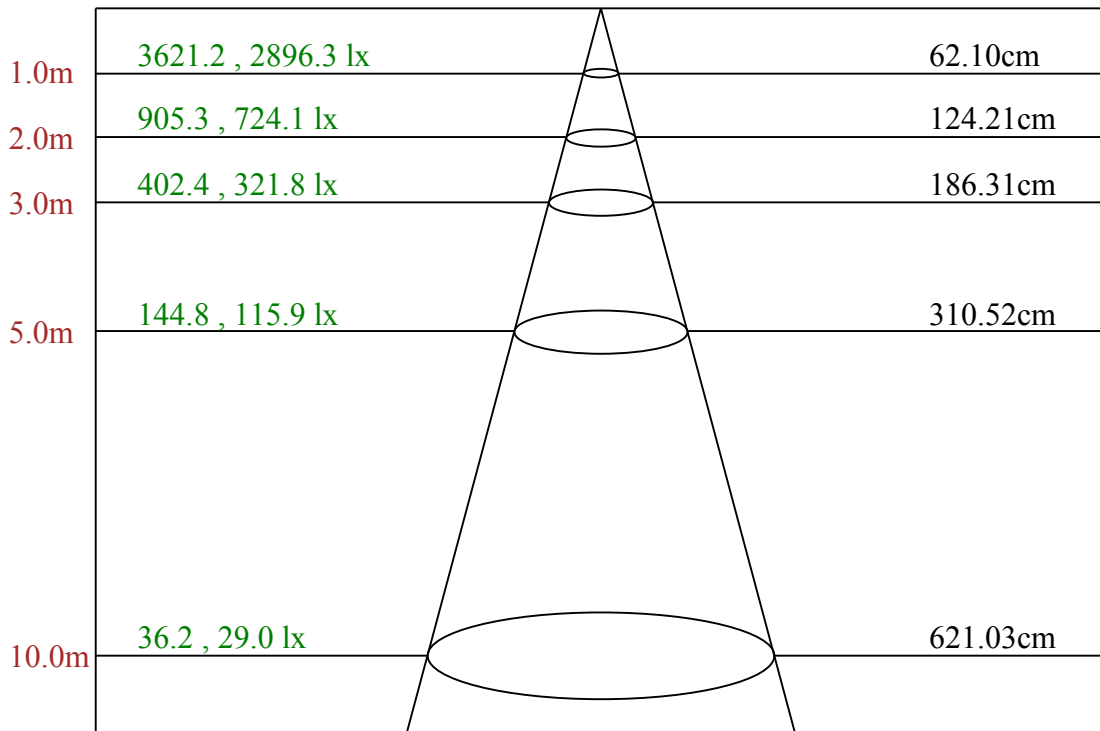
C90/C270: —————

Field angle(10%Imax):C0/180Left:24.7 Right:24.7

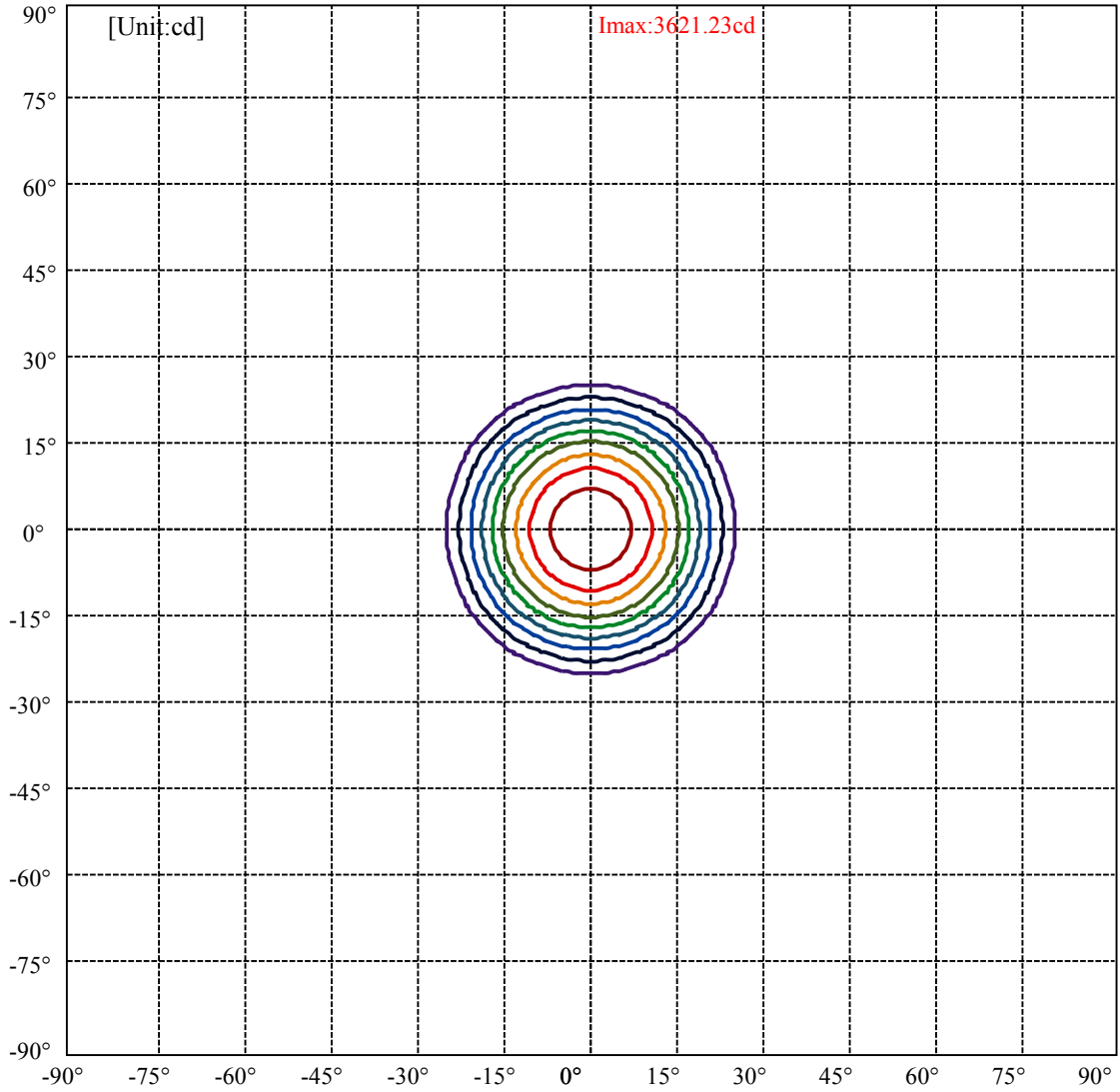
:C90/270Left:24.7 Right:24.7

Beam Angle(50%Imax):C0/180Left:16.8 Right:16.8

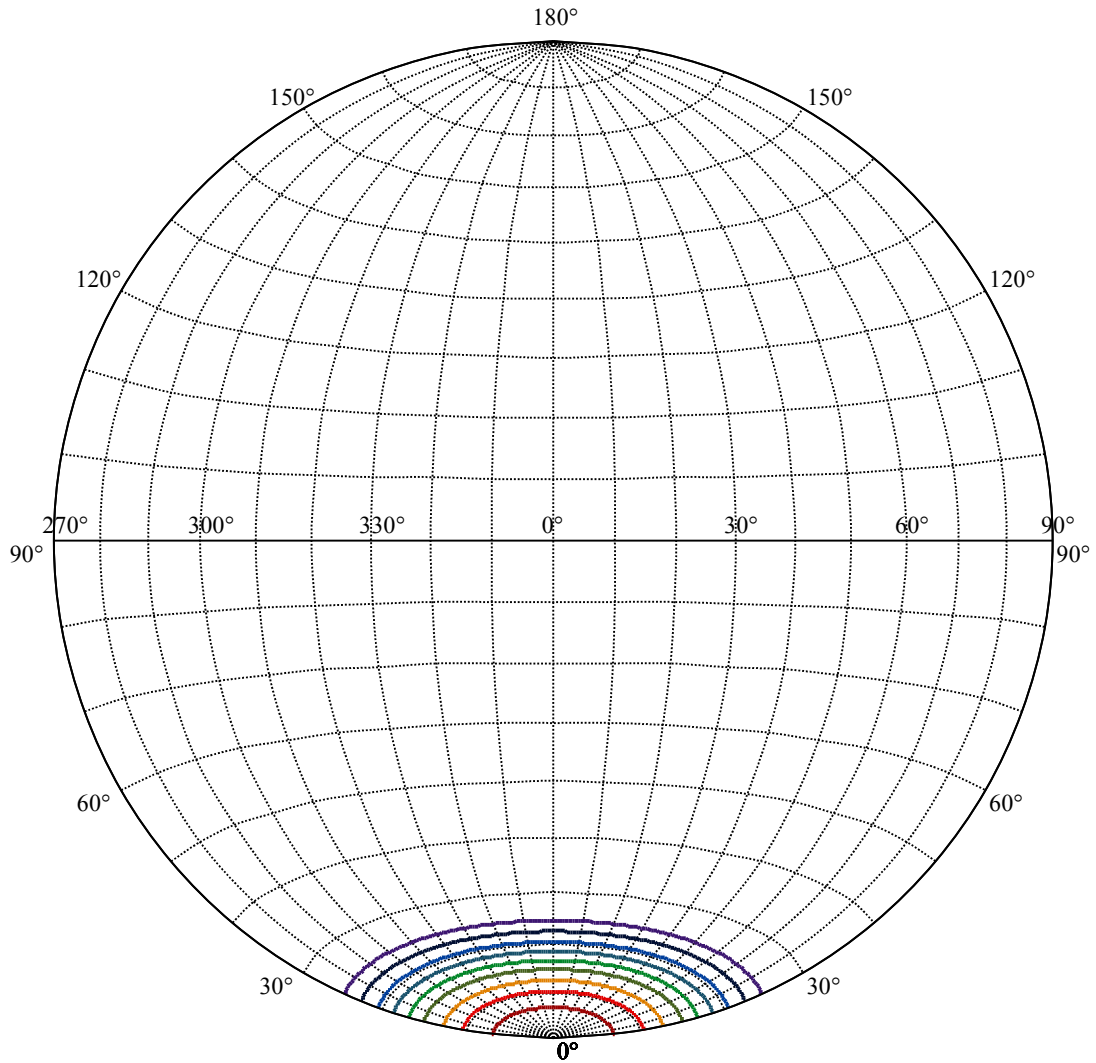
:C90/270Left:16.8 Right:16.8



Max , Ave Beam angle of C0 plane 34.50



(10%Imax) 362.123	—
(20%Imax) 724.247	—
(30%Imax) 1086.37	—
(40%Imax) 1448.49	—
(50%Imax) 1810.62	—
(60%Imax) 2172.74	—
(70%Imax) 2534.86	—
(80%Imax) 2896.99	—
(90%Imax) 3259.11	—



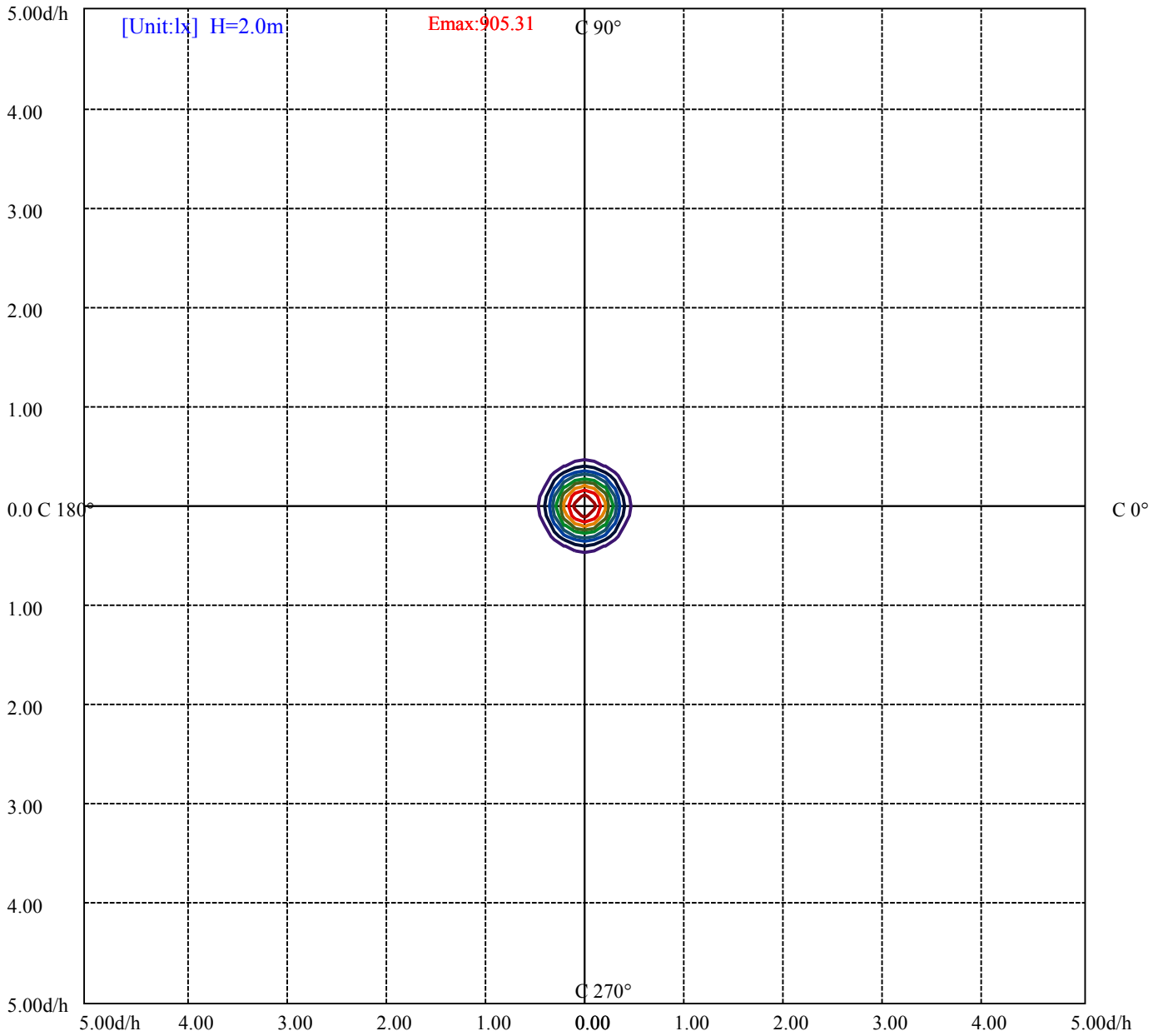
House

[Unit:cd]

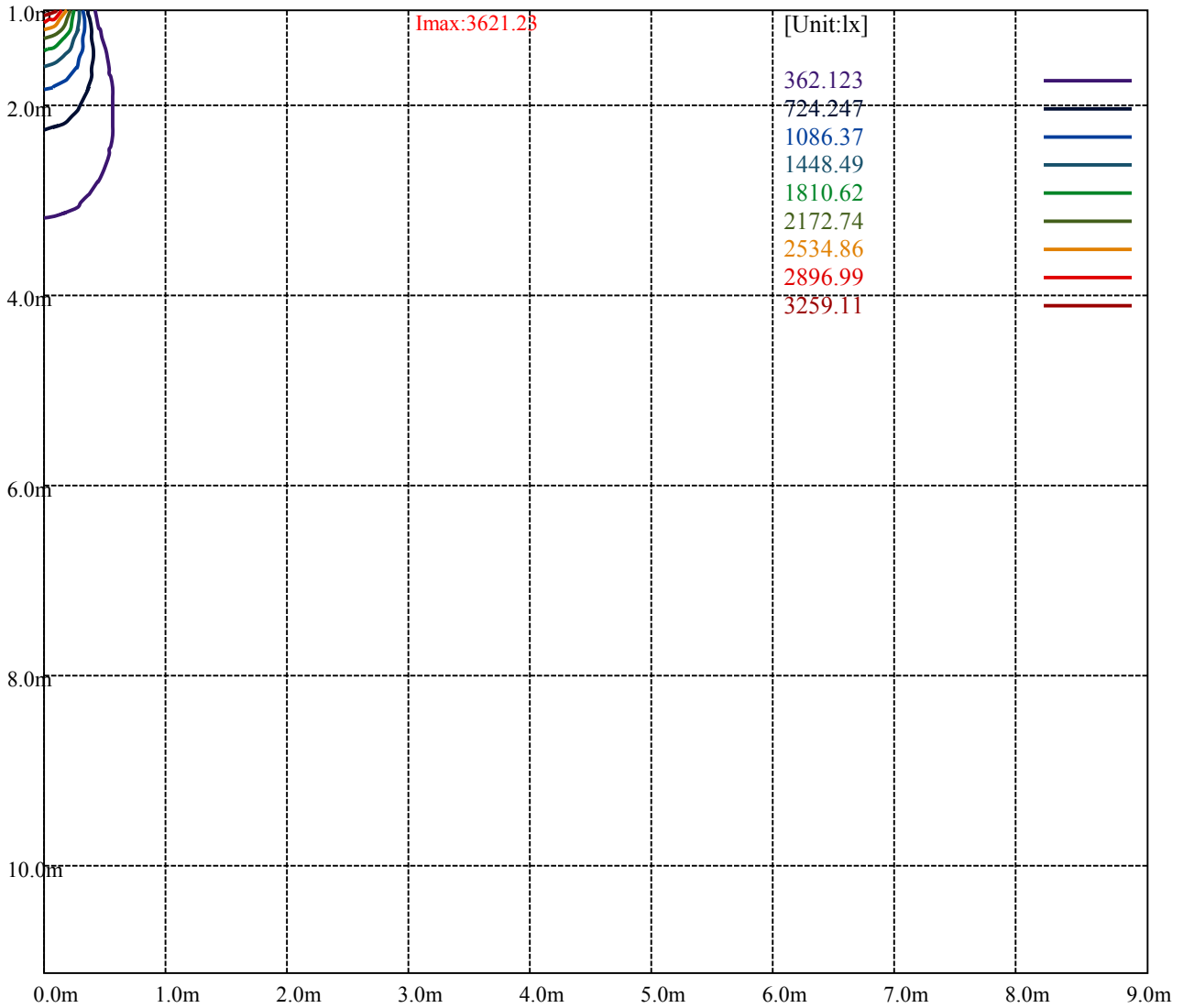
Road

Imax:3621.23

(10%Imax)	362.123	—
(20%Imax)	724.247	—
(30%Imax)	1086.37	—
(40%Imax)	1448.49	—
(50%Imax)	1810.62	—
(60%Imax)	2172.74	—
(70%Imax)	2534.86	—
(80%Imax)	2896.99	—
(90%Imax)	3259.11	—



(10%Emax) 90.53075	—
(20%Emax) 181.0615	—
(30%Emax) 271.5925	—
(40%Emax) 362.1225	—
(50%Emax) 452.6525	—
(60%Emax) 543.185	—
(70%Emax) 633.715	—
(80%Emax) 724.245	—
(90%Emax) 814.7775	—



Luminance Table

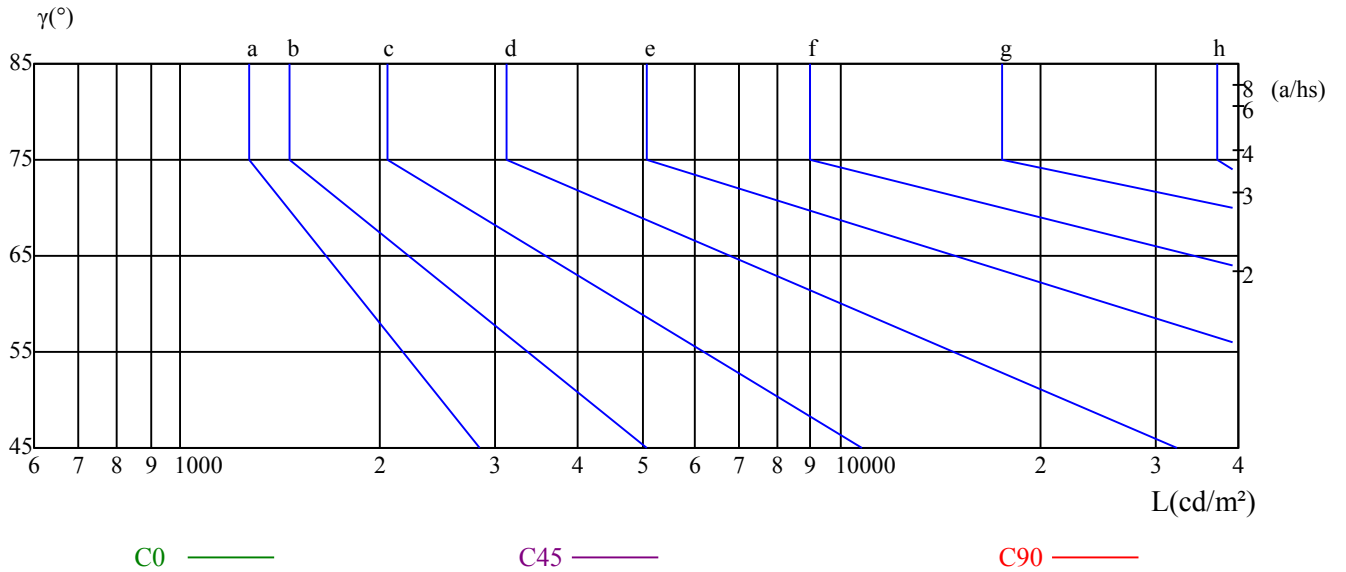
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

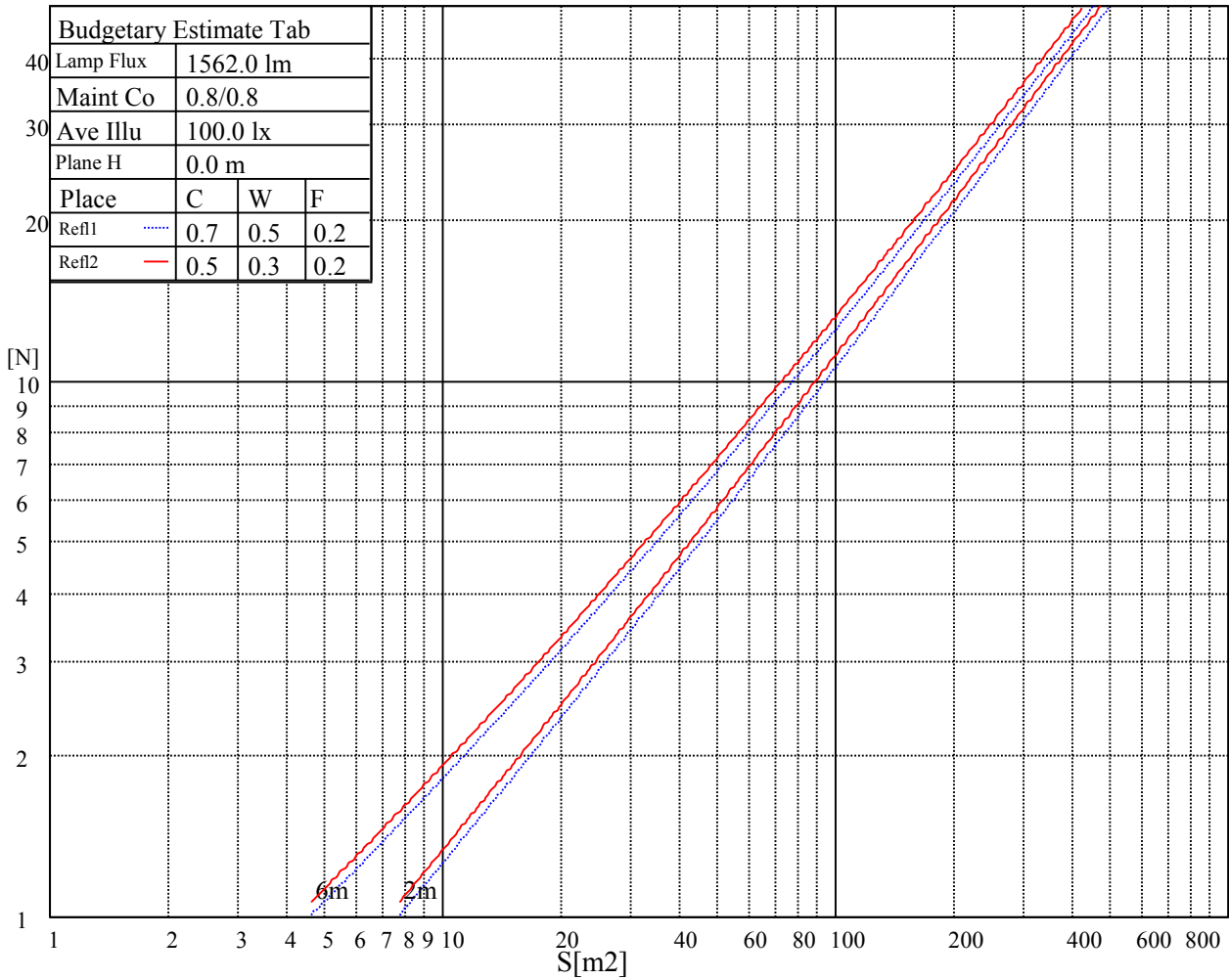
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

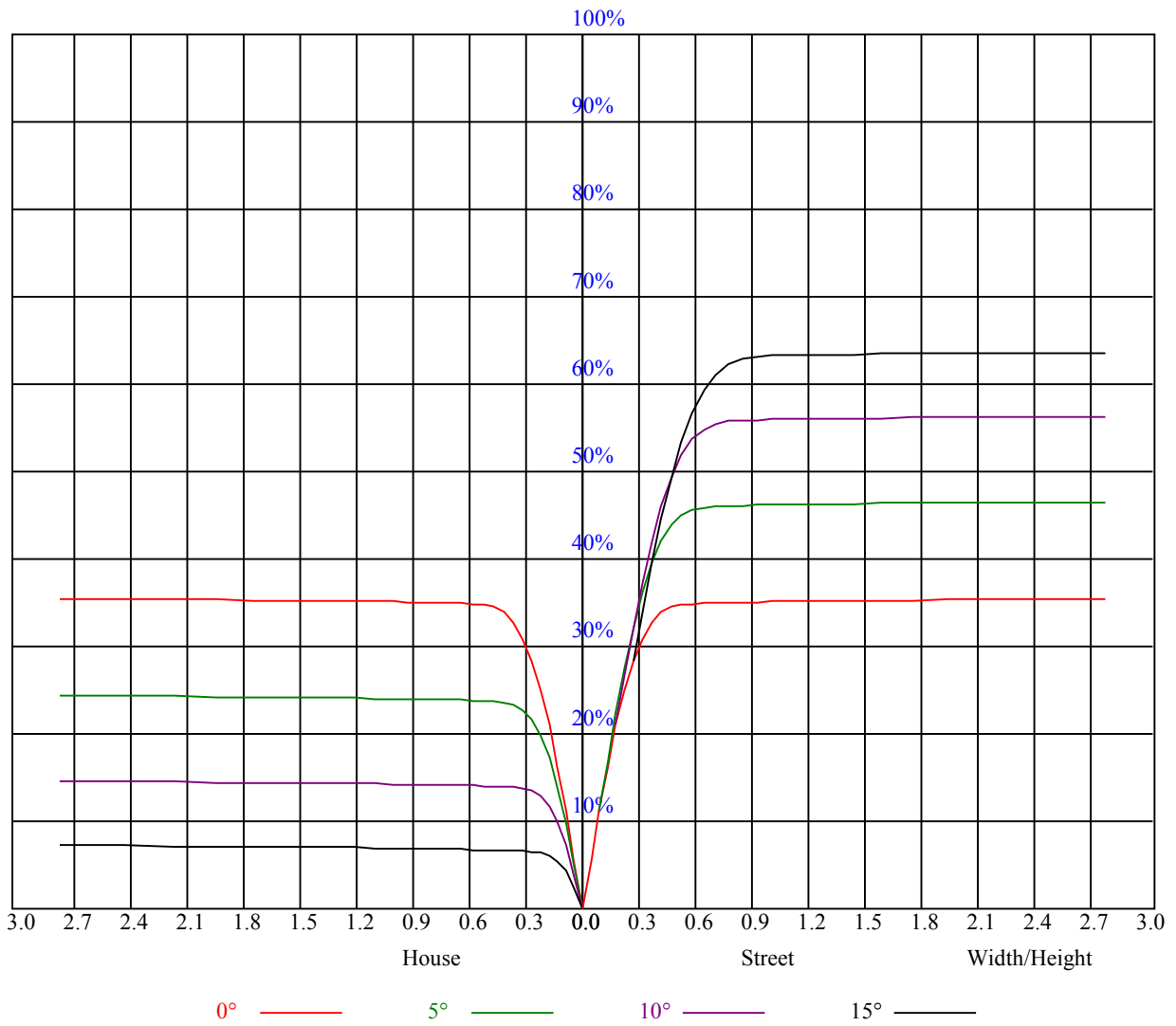
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.86	0.86	0.86	0.84	0.84	0.84	0.80	0.80	0.80	0.77	0.77	0.77	0.74	0.74	0.74	0.72
1	0.81	0.80	0.78	0.80	0.78	0.77	0.77	0.76	0.75	0.74	0.73	0.72	0.72	0.71	0.70	0.69
2	0.77	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.72	0.70	0.69	0.70	0.69	0.68	0.67
3	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.69	0.68	0.66	0.68	0.66	0.65	0.64
4	0.71	0.68	0.65	0.70	0.67	0.65	0.68	0.66	0.64	0.67	0.65	0.63	0.66	0.64	0.63	0.62
5	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.65	0.63	0.61	0.64	0.62	0.61	0.60
6	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.62	0.60	0.59	0.58
7	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.57	0.61	0.59	0.57	0.60	0.58	0.57	0.56
8	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.56	0.59	0.57	0.55	0.59	0.57	0.55	0.54
9	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.55	0.54	0.57	0.55	0.53	0.53
10	0.57	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.52	0.56	0.54	0.52	0.51



Nata 1-1007-M

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	3621.94	3477.94	3026.81	2280.38	1331.44	348.19	26.27	9.62	7.20
45.0	3619.69	3536.44	3127.50	2379.38	1433.25	480.94	35.89	9.84	7.48
90.0	3627.56	3492.56	2998.13	2250.56	1111.89	332.27	26.83	9.39	7.20
135.0	3615.75	3530.25	3098.25	2390.06	1433.81	439.31	34.54	9.90	7.37
180.0	3621.94	3418.31	2897.44	2111.63	1004.12	237.43	18.79	9.00	7.14
225.0	3619.69	3349.69	2833.88	1949.63	961.76	177.86	16.93	9.17	7.37
270.0	3627.56	3452.06	2936.25	2100.38	1121.63	292.50	20.14	9.62	7.54
315.0	3615.75	3372.75	2823.75	1953.00	1018.41	162.39	15.92	8.94	7.03
360.0	3621.94	3477.94	3026.81	2280.38	1331.44	348.19	26.27	9.62	7.20
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.24	5.74	5.51	5.34	5.23	5.18	5.12	5.06	5.01
45.0	6.41	5.96	5.68	5.51	5.46	5.34	5.34	5.34	5.12
90.0	6.24	5.85	5.63	5.46	5.34	5.29	5.29	5.23	5.06
135.0	6.30	5.85	5.57	5.40	5.29	5.18	5.18	5.12	5.06
180.0	6.36	5.91	5.68	5.51	5.40	5.29	5.18	5.12	5.06
225.0	6.58	6.19	5.96	5.79	5.68	5.68	5.57	5.29	5.18
270.0	6.58	6.13	5.91	5.74	5.63	5.63	5.51	5.23	5.12
315.0	6.24	5.85	5.57	5.46	5.34	5.23	5.18	5.18	5.06
360.0	6.24	5.74	5.51	5.34	5.23	5.18	5.12	5.06	5.01
C/γ(°)	90.0								
0.0	5.01								
45.0	5.12								
90.0	5.06								
135.0	5.01								
180.0	4.95								
225.0	5.12								
270.0	5.06								
315.0	5.01								
360.0	5.01								