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## Nata

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LumCAT: 2-1682-M	
Luminaire: 92.70.124.00	
Report No: NATA0100	Voltage(V): 35.9000
Test No: GC2018073012	Current(A): 0.3000
LampCAT: BRIDGELUX V6HD	Power (W): 10.7700
Lamp flux(lm): 1112.0	PF: 1.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1002.90  
Efficiency(%): 90.19%  
Lumens(lm)/Power(W): 94.48  
Central intensity(cd): 2602.103  
Maximum intensity(cd): 2602.103  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=31.4  
                                  [C90/270]Total=31.4  
Field angle(10%Imax): [C0/180]Total=67.1  
                                  [C90/270]Total=67.1  
Maximum s/h(1/2): C0\_180=0.52 C90\_270=0.52  
Maximum s/h(1/4): C0\_180=0.55 C90\_270=0.55  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 91.50%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.277%

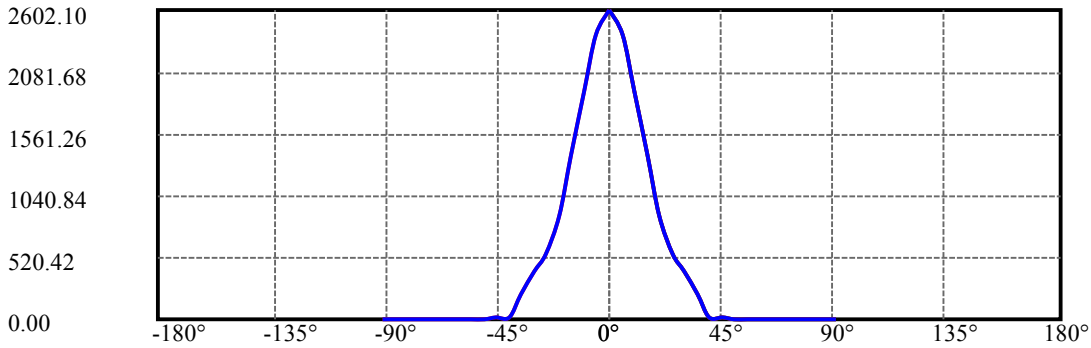
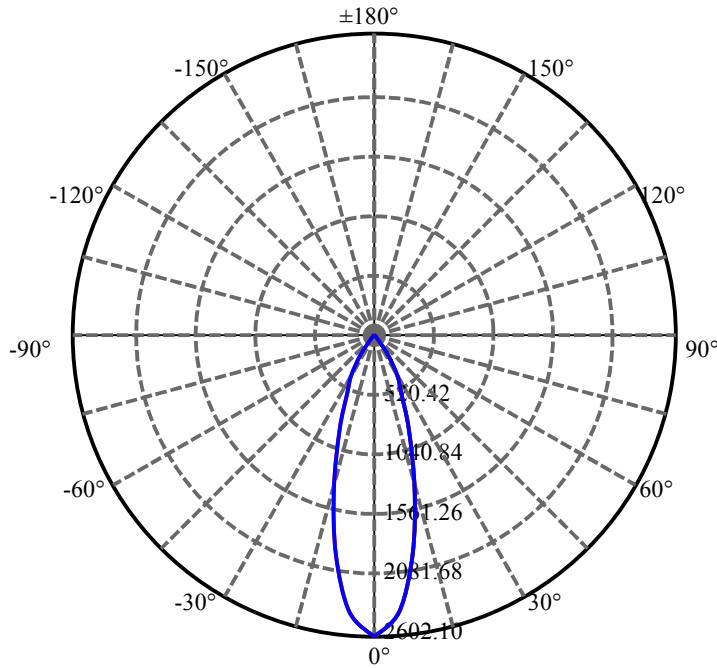
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2602.103	15.561	15.561	1.399%	1.552%
5.0	2388.897	114.126	129.687	10.263%	12.931%
10.0	1925.735	183.297	312.984	16.484%	31.208%
15.0	1373.430	194.846	507.83	17.522%	50.636%
20.0	870.153	163.131	670.961	14.670%	66.902%
25.0	545.120	126.279	797.24	11.356%	79.493%
30.0	402.249	110.244	907.484	9.914%	90.486%
35.0	203.144	63.868	971.352	5.744%	96.854%
40.0	20.096	7.080	978.433	.637%	97.560%
45.0	8.637	3.348	981.78	.301%	97.894%
50.0	6.923	2.907	984.687	.261%	98.184%
55.0	5.884	2.642	987.329	.238%	98.447%
60.0	5.210	2.473	989.802	.222%	98.694%
65.0	4.783	2.376	992.179	.214%	98.930%
70.0	4.542	2.340	994.518	.210%	99.164%
75.0	4.439	2.350	996.868	.211%	99.398%
80.0	4.453	2.404	999.272	.216%	99.638%
85.0	4.432	2.420	1001.692	.218%	99.879%
90.0	4.425	1.213	1002.905	.109%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	907.48	81.61%	90.49%
0-40	978.43	87.99%	97.56%
0-60	989.80	89.01%	98.69%
0-90	1001.69	90.08%	99.88%
0-120	1001.69	90.08%	99.88%
0-180	1002.90	90.19%	100.00%
60-90	14.36	1.29%	1.43%
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%
0-25.23	802.32	72.15%	80.00%

ZONAL LUMEN SUMMARY

0-10	312.98
10-20	357.98
20-30	236.52
30-40	70.95
40-50	6.25
50-60	5.12
60-70	4.72
70-80	4.75
80-90	2.42
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: —————

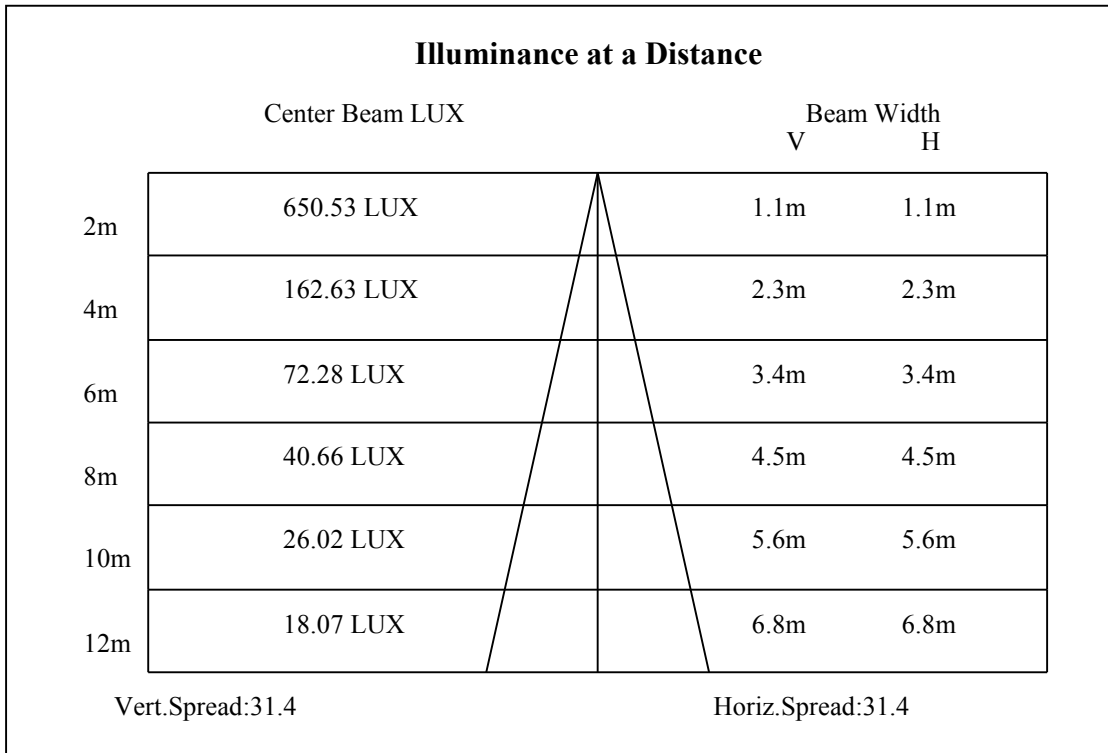
C90/C270: —————

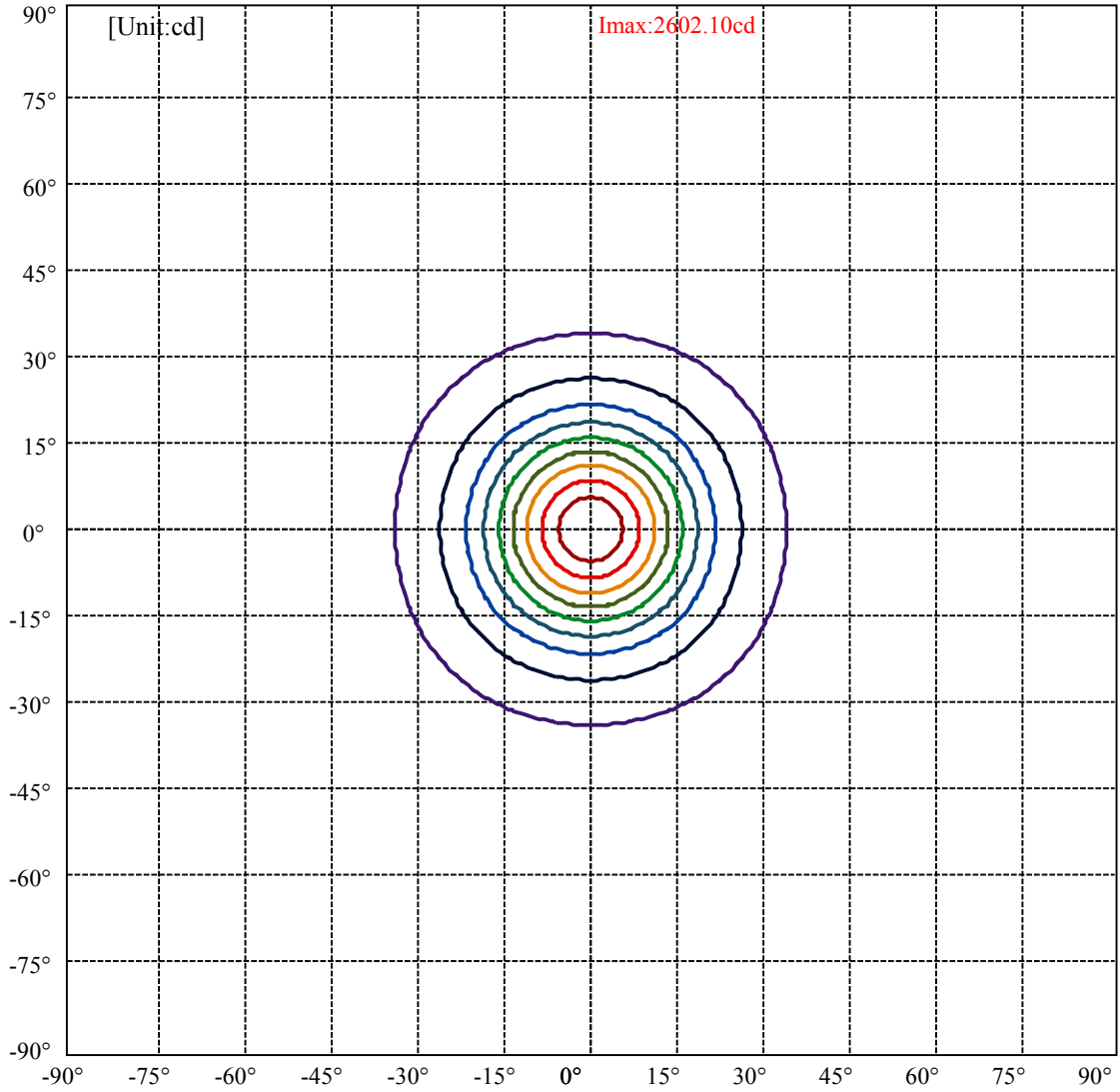
Field angle(10%Imax):C0/180Left:33.6 Right:33.6

:C90/270Left:33.6 Right:33.6

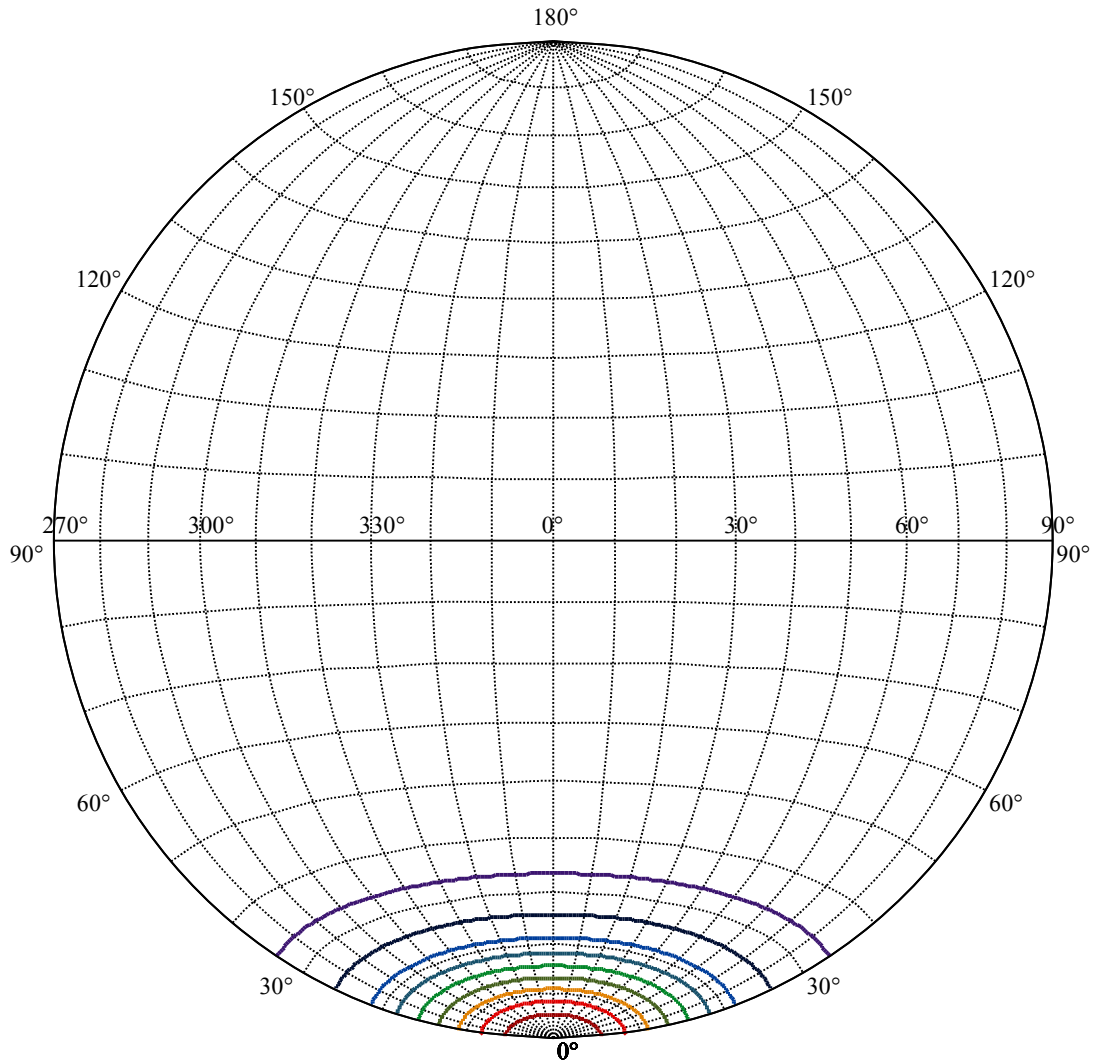
Beam Angle(50%Imax):C0/180Left:15.7 Right:15.7

:C90/270Left:15.7 Right:15.7





(10%Imax) 260.21	—
(20%Imax) 520.421	—
(30%Imax) 780.631	—
(40%Imax) 1040.84	—
(50%Imax) 1301.05	—
(60%Imax) 1561.26	—
(70%Imax) 1821.47	—
(80%Imax) 2081.68	—
(90%Imax) 2341.89	—



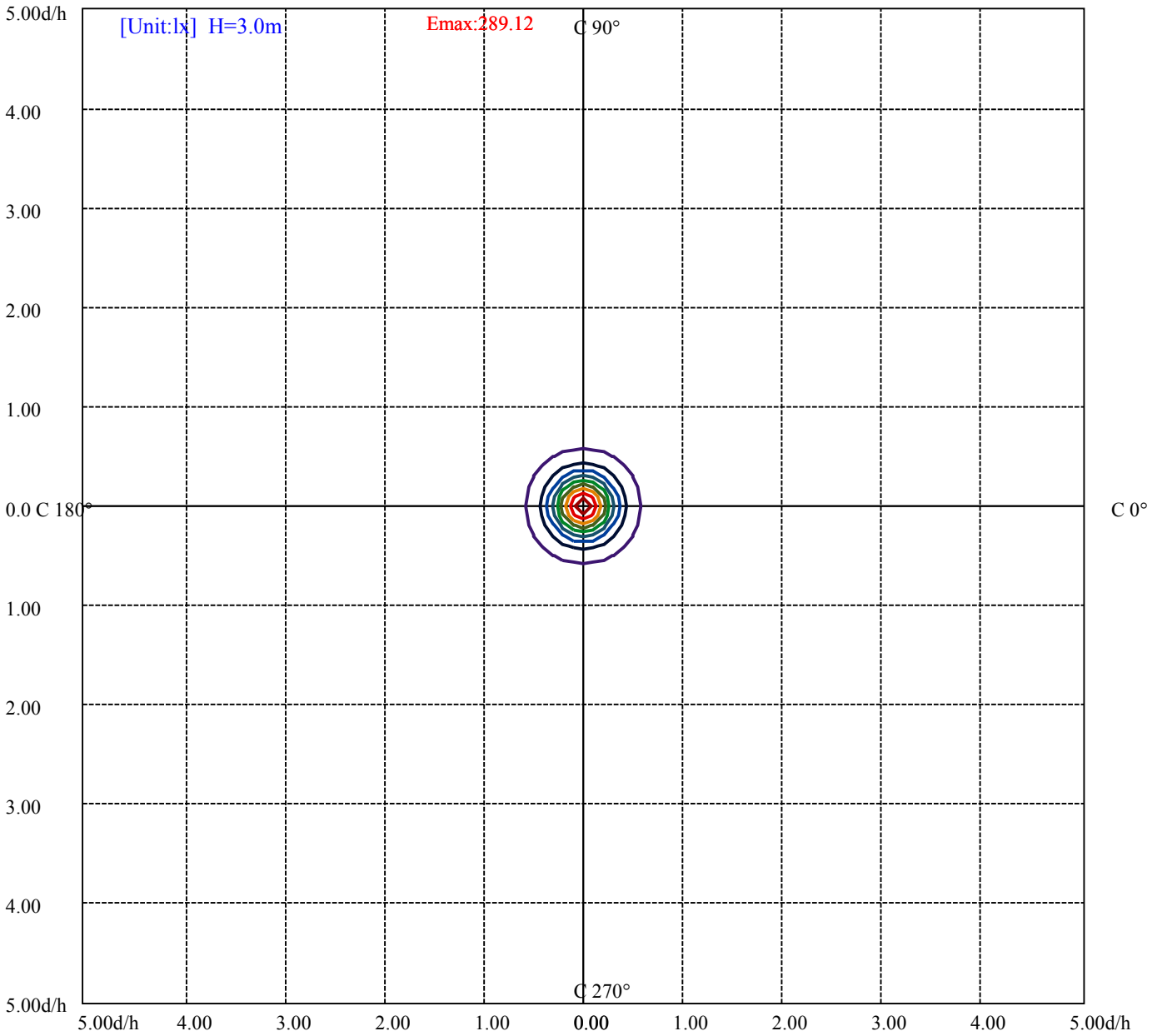
House

[Unit:cd]

Road

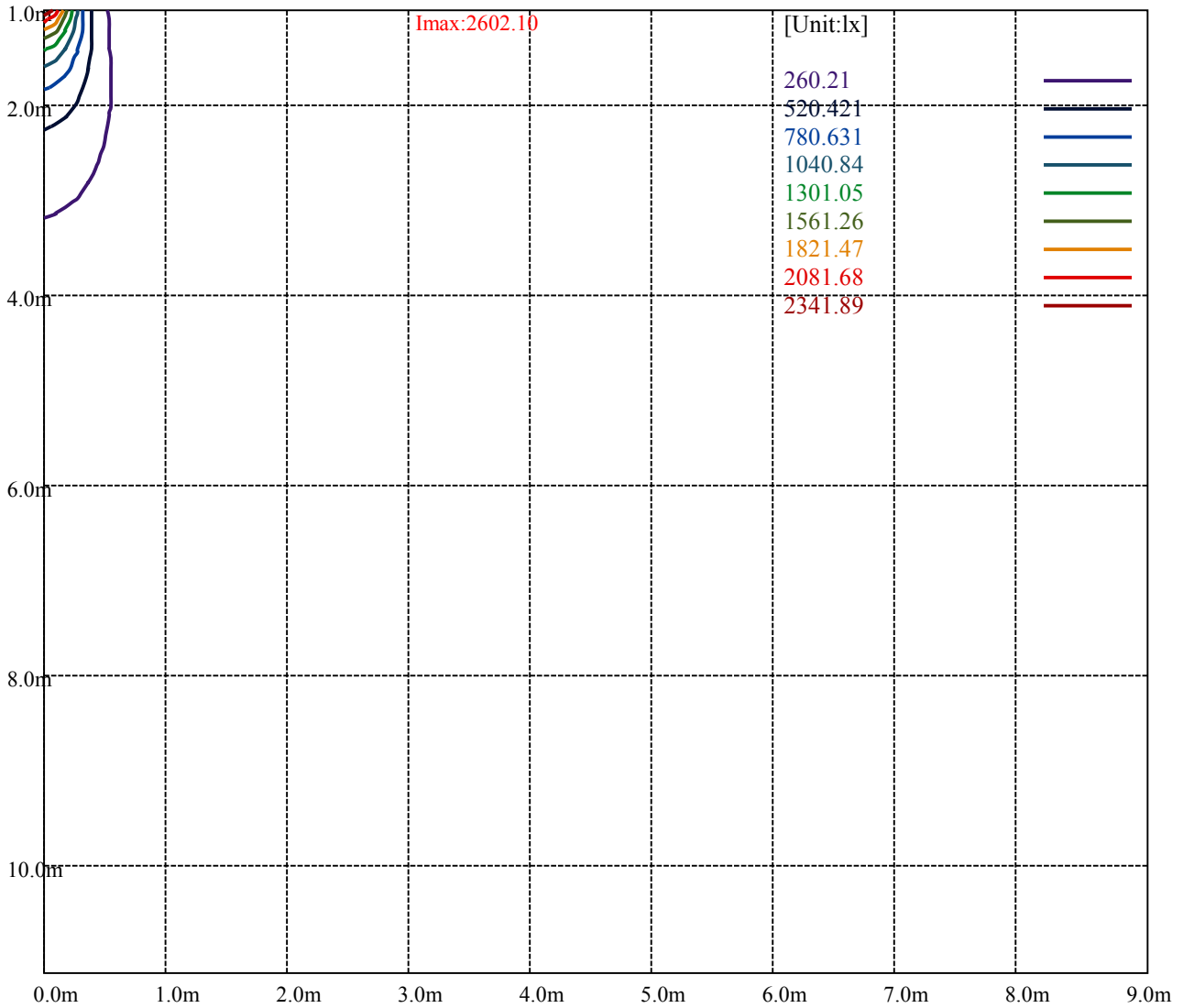
Imax:2602.10

(10%Imax) 260.21	—
(20%Imax) 520.421	—
(30%Imax) 780.631	—
(40%Imax) 1040.84	—
(50%Imax) 1301.05	—
(60%Imax) 1561.26	—
(70%Imax) 1821.47	—
(80%Imax) 2081.68	—
(90%Imax) 2341.89	—



- (10%Emax) 28.91222
- (20%Emax) 57.82433
- (30%Emax) 86.73656
- (40%Emax) 115.6489
- (50%Emax) 144.5611
- (60%Emax) 173.4733
- (70%Emax) 202.3856
- (80%Emax) 231.2978
- (90%Emax) 260.21





Luminance Table

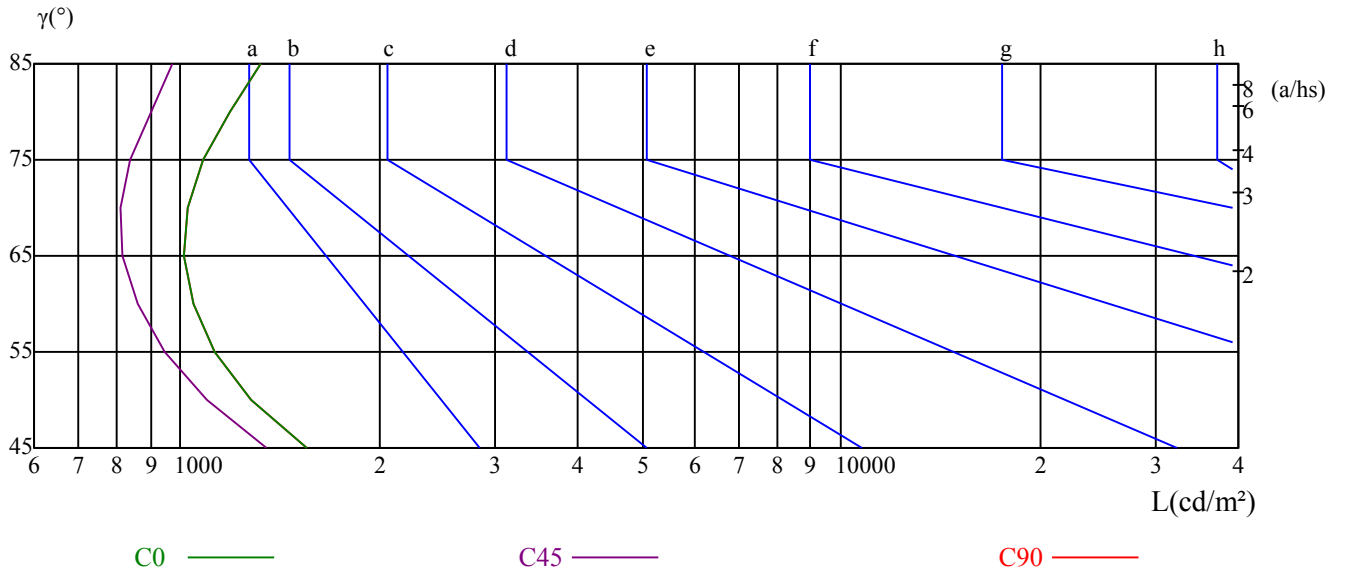
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1558	1282	1127	1043	1010	1023	1081	1189	1321
C45	1349	1093	947	861	819	814	840	900	970
C90	1558	1282	1127	1043	1010	1023	1081	1189	1321

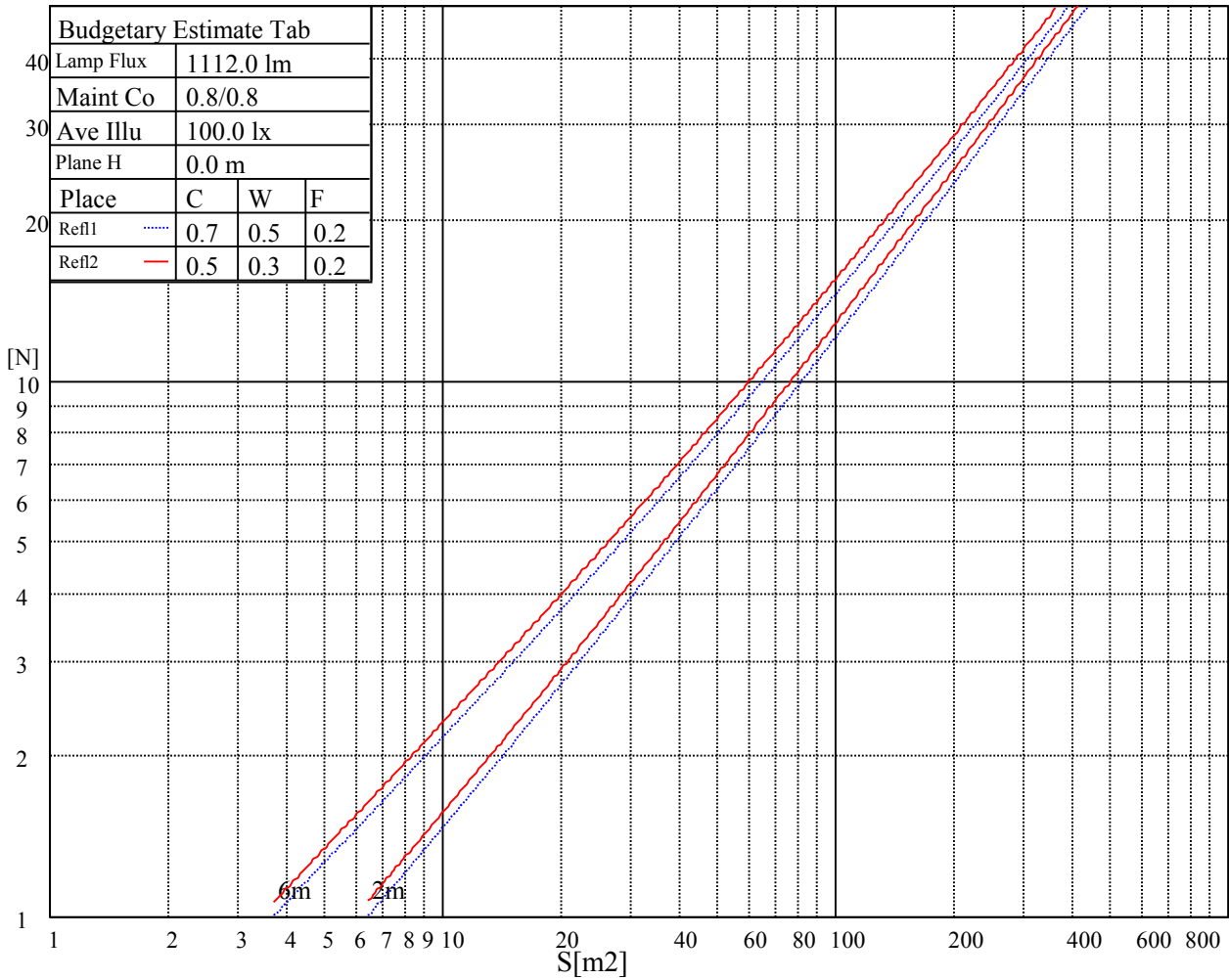
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2310	2310	2310	3500	3500	3500	10378	10378	10378

Glare Table

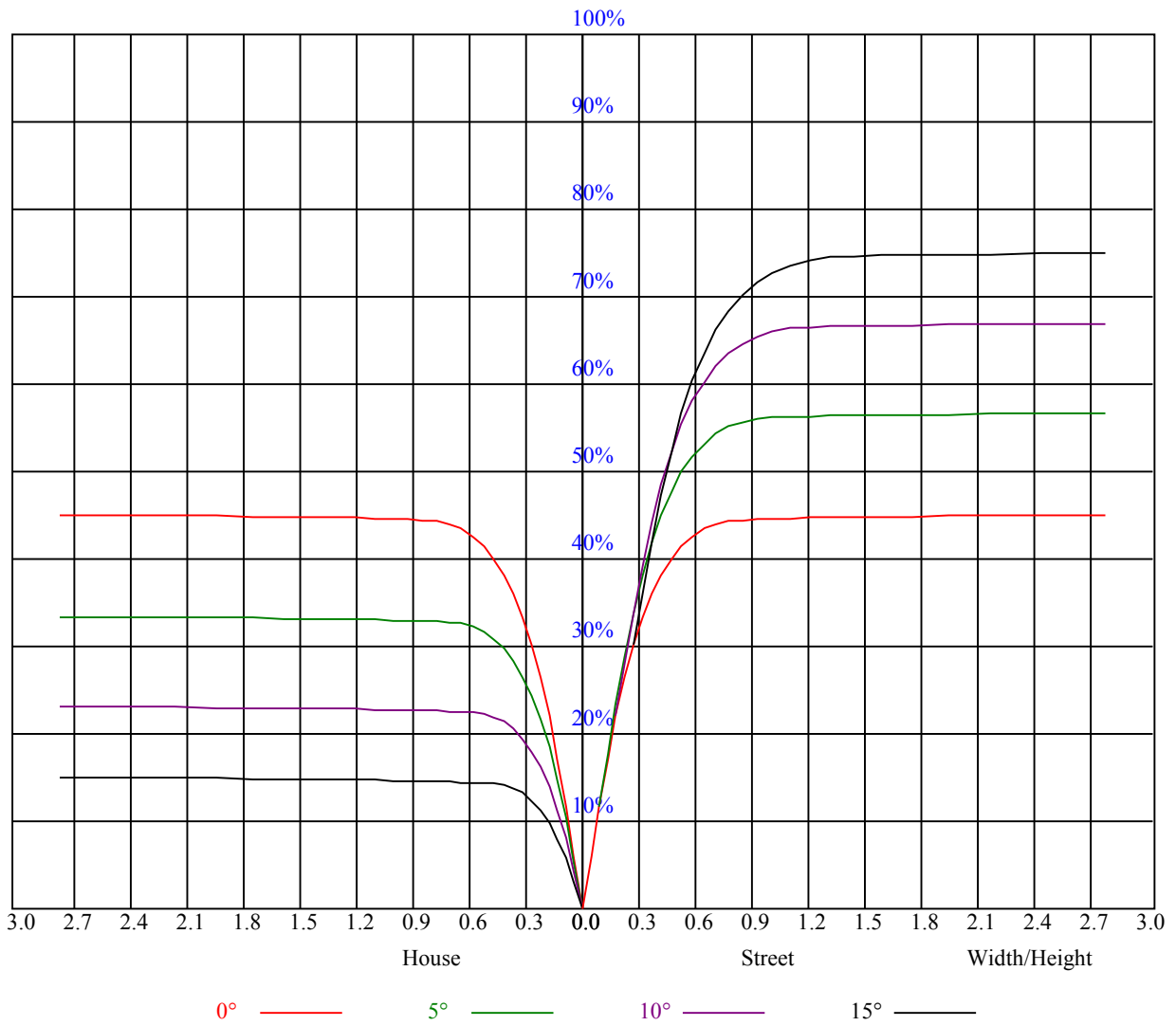
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.92
1	1.01	0.98	0.96	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.88	0.87	0.86	0.85
2	0.95	0.92	0.89	0.94	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.82	0.81
3	0.91	0.87	0.83	0.89	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.74
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.79	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
9	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.62
10	0.69	0.64	0.61	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	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	2600.31	2364.67	1896.69	1438.07	852.27	532.95	399.71	286.84	18.00
45.0	2610.77	2283.19	1839.98	1300.98	771.34	497.71	387.05	103.34	15.97
90.0	2587.65	2248.50	1731.52	1088.85	731.09	481.69	367.12	87.37	15.20
135.0	2609.67	2386.69	1920.37	1396.78	890.81	556.07	405.77	292.35	19.38
180.0	2600.31	2407.07	1914.31	1388.52	883.71	552.88	406.98	175.30	19.99
225.0	2610.77	2503.41	2061.86	1505.24	958.75	598.63	424.48	234.32	23.84
270.0	2587.65	2523.79	2135.64	1607.65	1033.96	617.73	437.15	283.54	29.95
315.0	2609.67	2393.85	1905.50	1261.34	839.28	523.31	389.74	162.09	18.44
360.0	2600.31	2364.67	1896.69	1438.07	852.27	532.95	399.71	286.84	18.00
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.98	6.72	5.78	5.12	4.79	4.51	4.40	4.40	4.40
45.0	7.98	6.72	5.73	5.18	4.79	4.51	4.46	4.51	4.46
90.0	8.09	6.77	5.73	5.12	4.73	4.51	4.46	4.46	4.46
135.0	8.92	7.21	6.06	5.34	4.84	4.57	4.46	4.46	4.40
180.0	9.14	7.10	6.00	5.23	4.73	4.57	4.40	4.40	4.40
225.0	9.08	7.10	5.95	5.29	4.84	4.57	4.46	4.46	4.46
270.0	9.80	6.94	6.00	5.29	4.79	4.57	4.46	4.46	4.46
315.0	8.09	6.83	5.84	5.12	4.73	4.51	4.40	4.46	4.40
360.0	7.98	6.72	5.78	5.12	4.79	4.51	4.40	4.40	4.40
C/γ(°)	90.0								
0.0	4.40								
45.0	4.40								
90.0	4.40								
135.0	4.46								
180.0	4.40								
225.0	4.40								
270.0	4.46								
315.0	4.46								
360.0	4.40								