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## Nata

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LumCAT: 3-1917-E  
Luminaire: 92.76.323.00  
Report No: GC2017030708  
Test No: NT-0010  
LampCAT: SLM 1208 G6 L15  
Lamp flux(lm): 2505.0  
Number of Lamps: 1  
Length(mm): 84  
Phm Type: C

Voltage(V): 34.7000  
Current(A): 0.6200  
Power (W): 21.5140  
PF: 0.0000  
Ballast type: DC  
Width(mm): 84  
Height(mm): 0

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## Photometric Results

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Lumens(lm): 2323.14  
Efficiency(%): 92.74%  
Lumens(lm)/Power(W): 107.98  
Central intensity(cd): 7956.338  
Maximum intensity(cd): 7956.338  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=25.9  
                                  [C90/270]Total=25.9  
Field angle(10%Imax): [C0/180]Total=61.4  
                                  [C90/270]Total=61.4  
Maximum s/h(1/2): C0\_180=0.44 C90\_270=0.44  
Maximum s/h(1/4): C0\_180=0.44 C90\_270=0.44  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 92.74%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.636%

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Equipment: gms1980  
Temperature(°C): 25.0

Date: 2017/3/7  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.42

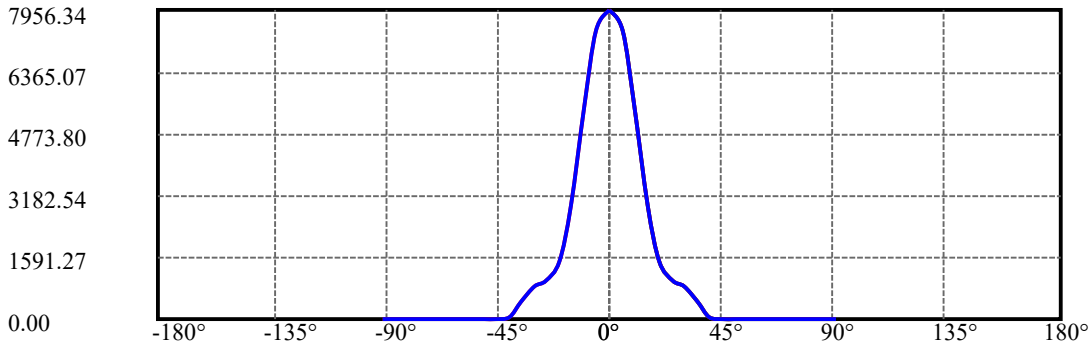
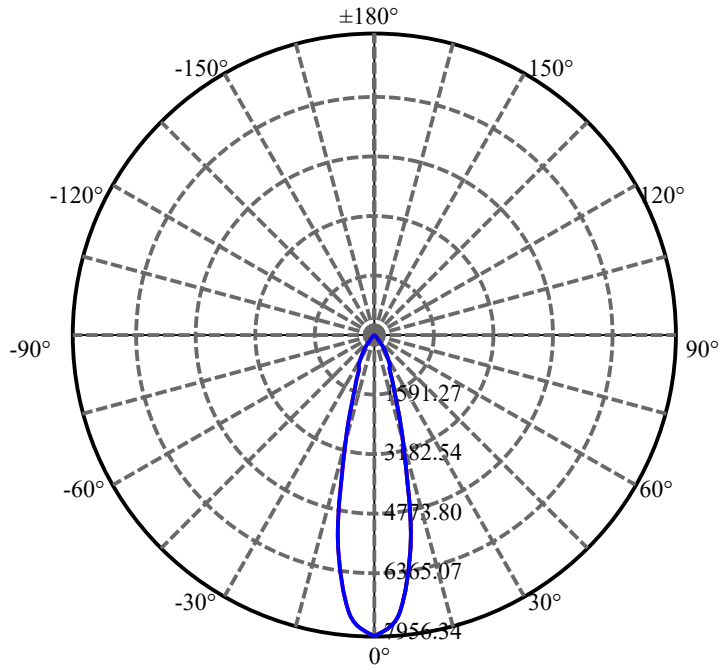
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7956.338	0.000	0	.000%	.000%
5.0	7396.483	183.539	183.539	7.327%	7.900%
10.0	5460.907	459.949	643.488	18.361%	27.699%
15.0	2939.736	498.320	1141.808	19.893%	49.149%
20.0	1460.109	362.609	1504.418	14.475%	64.758%
25.0	983.562	256.296	1760.714	10.231%	75.790%
30.0	854.613	232.623	1993.336	9.286%	85.803%
35.0	432.619	189.554	2182.89	7.567%	93.963%
40.0	53.143	81.046	2263.936	3.235%	97.451%
45.0	13.805	12.396	2276.332	.495%	97.985%
50.0	11.706	5.155	2281.487	.206%	98.207%
55.0	11.059	4.950	2286.437	.198%	98.420%
60.0	10.640	5.016	2291.453	.200%	98.636%
65.0	10.337	5.099	2296.552	.204%	98.855%
70.0	10.172	5.193	2301.745	.207%	99.079%
75.0	10.103	5.299	2307.045	.212%	99.307%
80.0	9.979	5.373	2312.418	.215%	99.538%
85.0	9.834	5.384	2317.802	.215%	99.770%
90.0	9.669	5.340	2323.142	.213%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1993.34	79.57%	85.80%
0-40	2263.94	90.38%	97.45%
0-60	2291.45	91.48%	98.64%
0-90	2317.80	92.53%	99.77%
0-120	2317.80	92.53%	99.77%
0-180	2323.14	92.74%	100.00%
60-90	31.36	1.25%	1.35%
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%
0-27.10	1858.51	74.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	643.49
10-20	860.93
20-30	488.92
30-40	270.60
40-50	17.55
50-60	9.97
60-70	10.29
70-80	10.67
80-90	5.38
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: —————

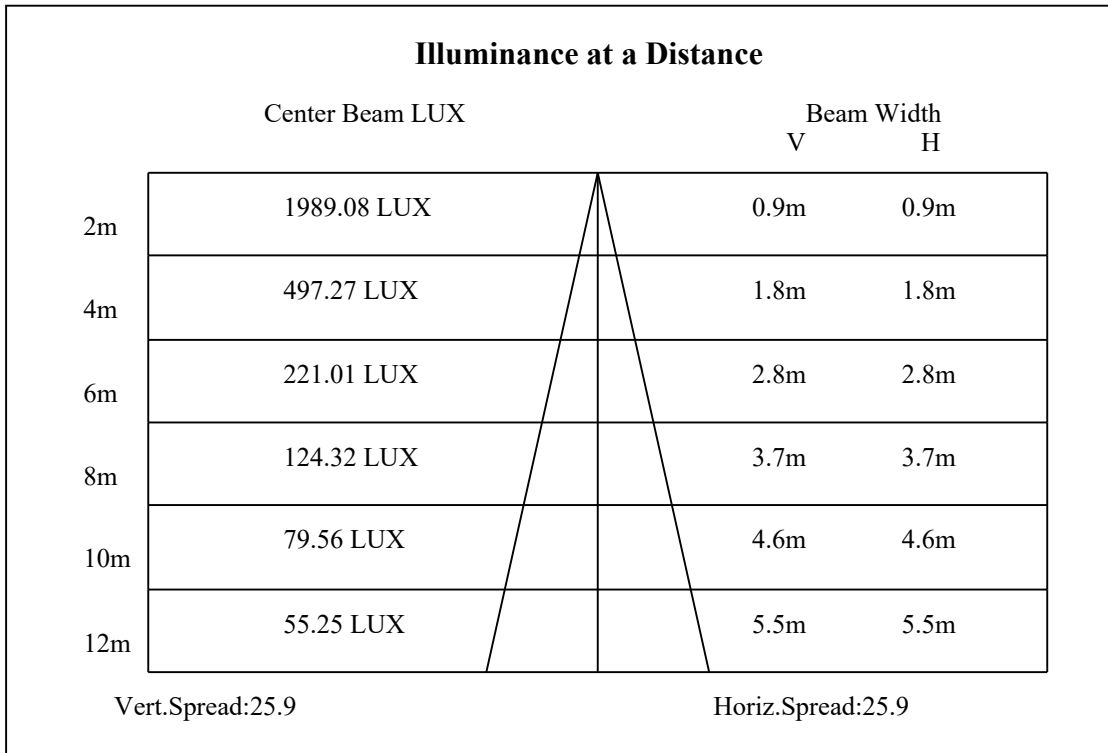
C90/C270: —————

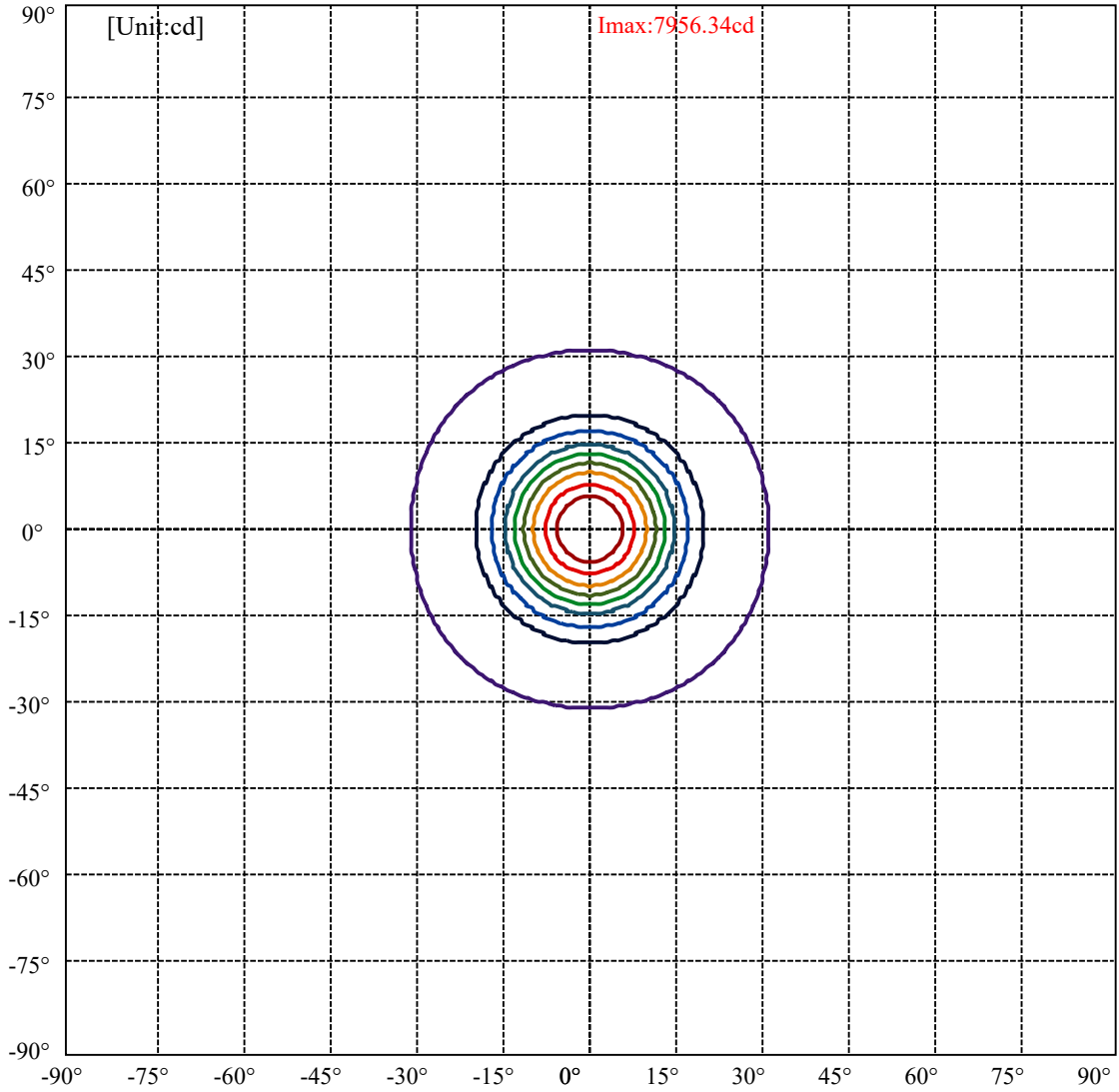
Field angle(10%Imax):C0/180Left:30.7 Right:30.7

:C90/270Left:30.7 Right:30.7

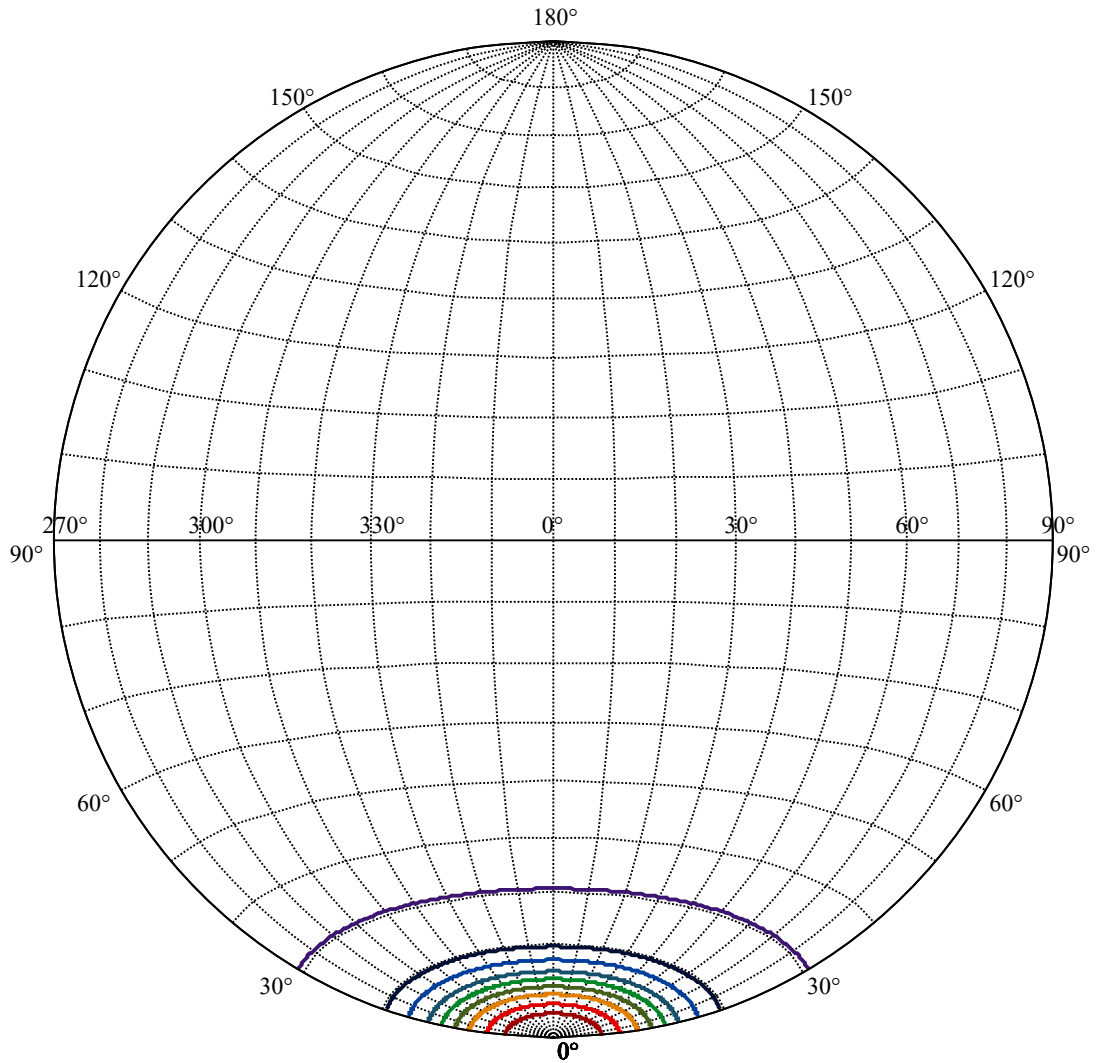
Beam Angle(50%Imax):C0/180Left:12.9 Right:12.9

:C90/270Left:12.9 Right:12.9





(10%Imax)	795.634	—
(20%Imax)	1591.27	—
(30%Imax)	2386.9	—
(40%Imax)	3182.54	—
(50%Imax)	3978.17	—
(60%Imax)	4773.8	—
(70%Imax)	5569.44	—
(80%Imax)	6365.07	—
(90%Imax)	7160.7	—



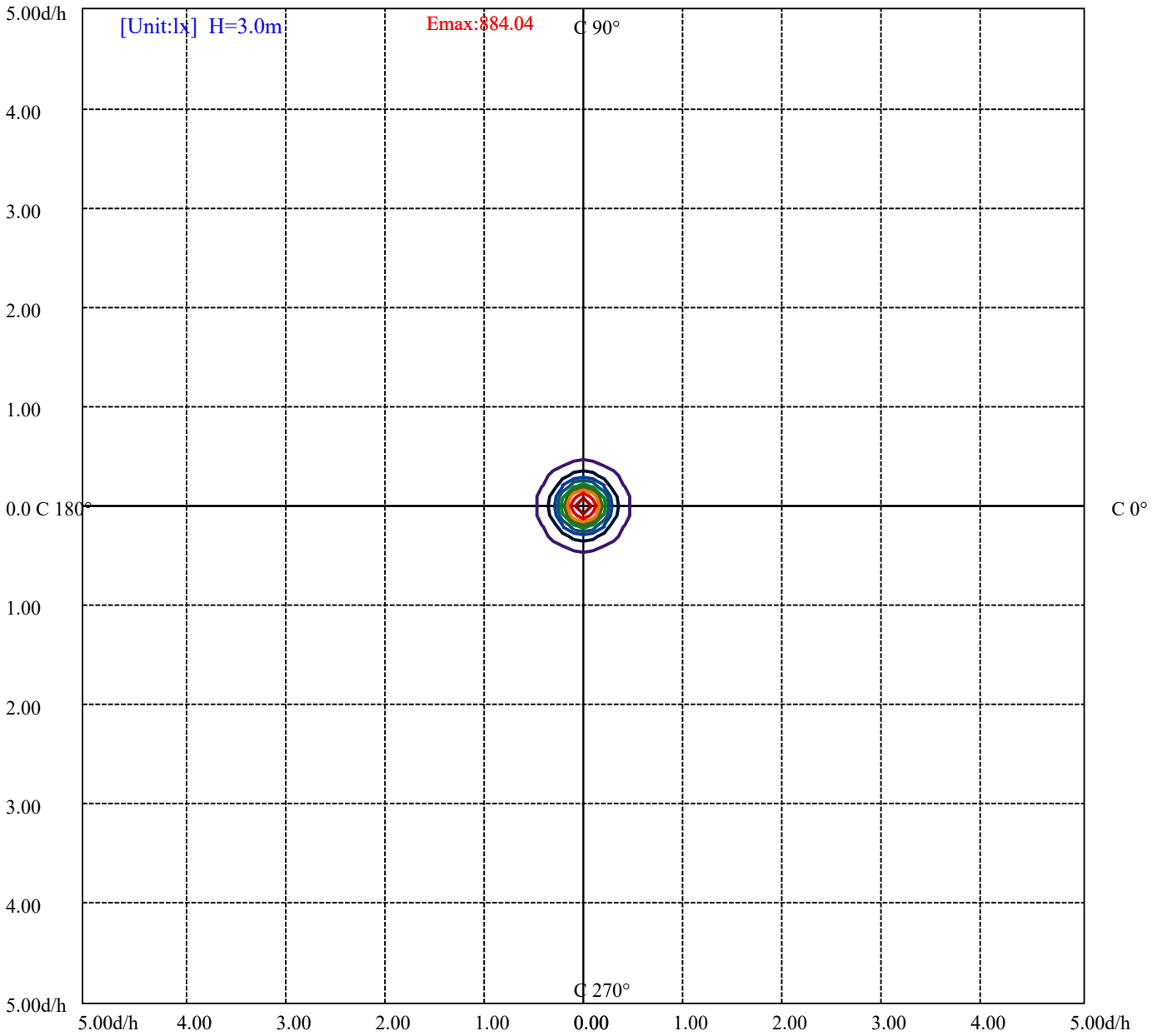
House

[Unit:cd]

Road

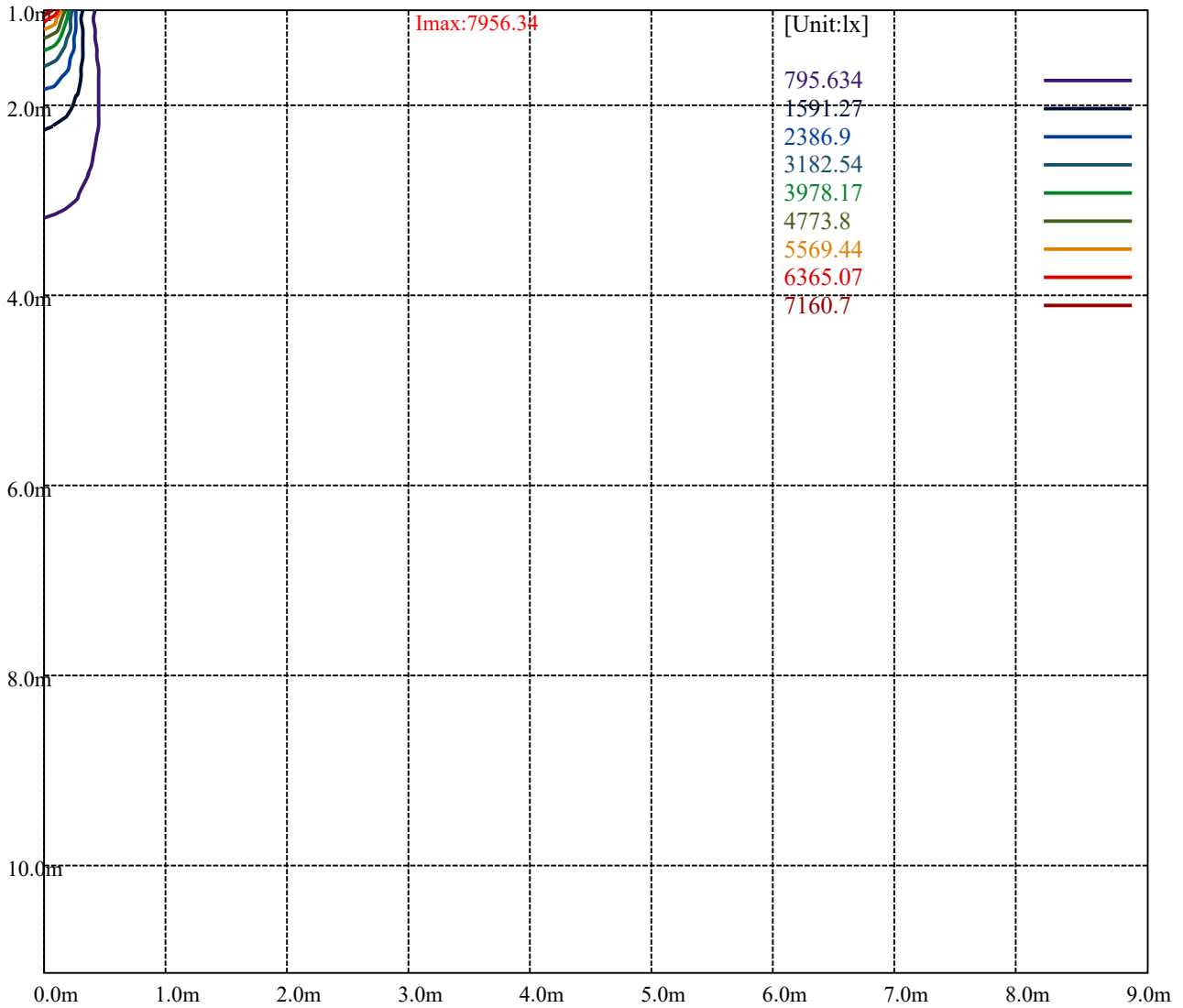
Imax:7956.34

(10%Imax) 795.634	—
(20%Imax) 1591.27	—
(30%Imax) 2386.9	—
(40%Imax) 3182.54	—
(50%Imax) 3978.17	—
(60%Imax) 4773.8	—
(70%Imax) 5569.44	—
(80%Imax) 6365.07	—
(90%Imax) 7160.7	—



(10%Emax) 88.40356	—
(20%Emax) 176.8067	—
(30%Emax) 265.2111	—
(40%Emax) 353.6144	—
(50%Emax) 442.0178	—
(60%Emax) 530.4211	—
(70%Emax) 618.8245	—
(80%Emax) 707.2289	—
(90%Emax) 795.6322	—





Luminance Table

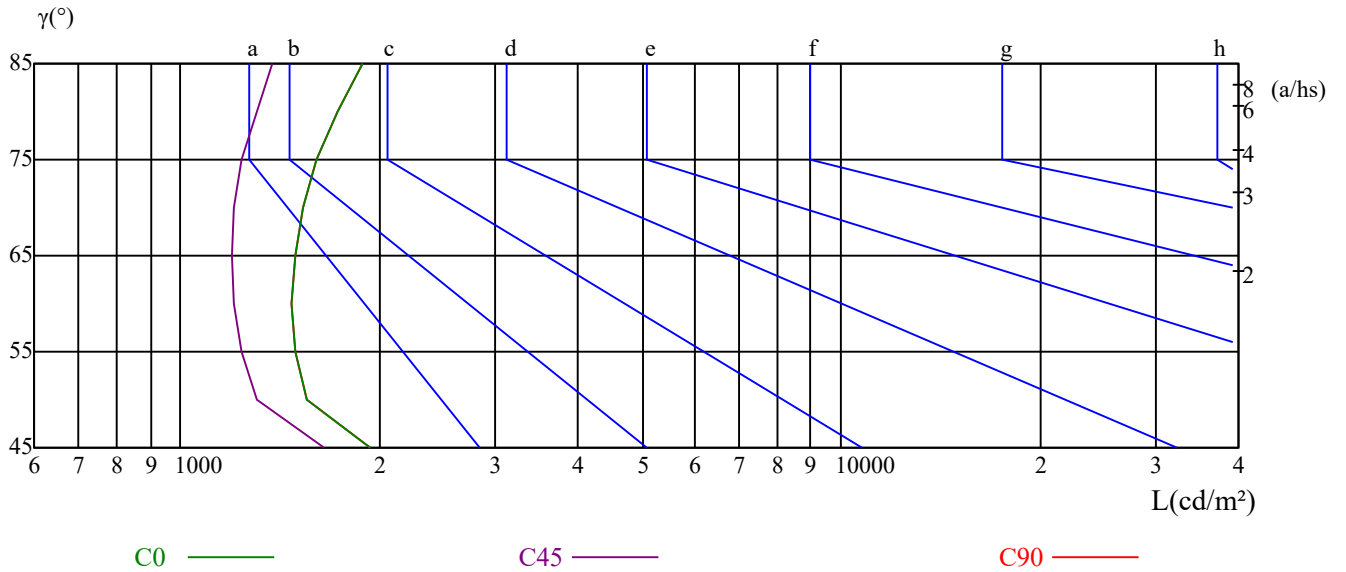
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1931	1548	1488	1474	1489	1536	1610	1731	1884
C45	1652	1304	1234	1202	1193	1208	1240	1302	1378
C90	1931	1548	1488	1474	1489	1536	1610	1731	1884

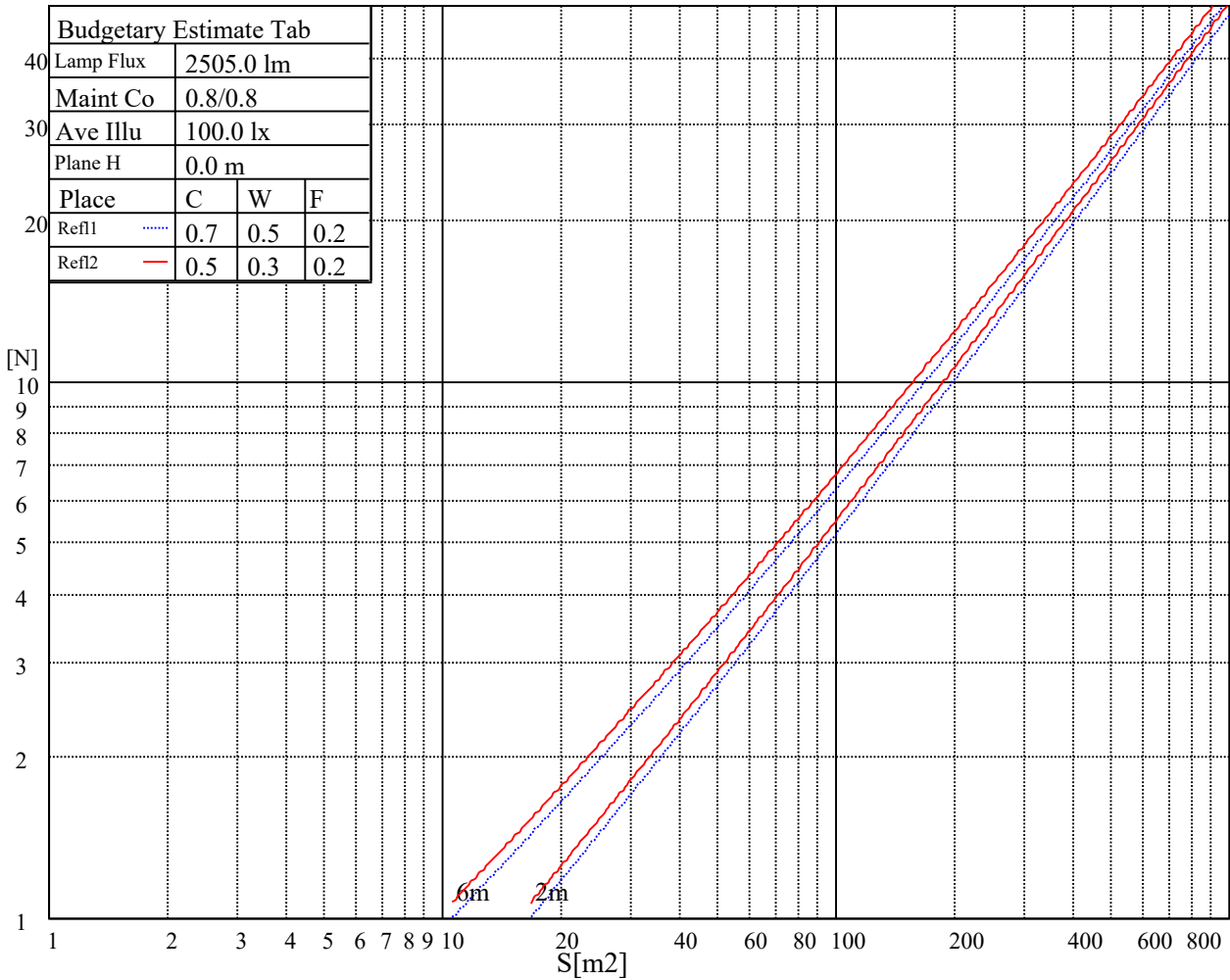
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3693	3693	3693	5758	5758	5758	16753	16753	16753

Glare Table

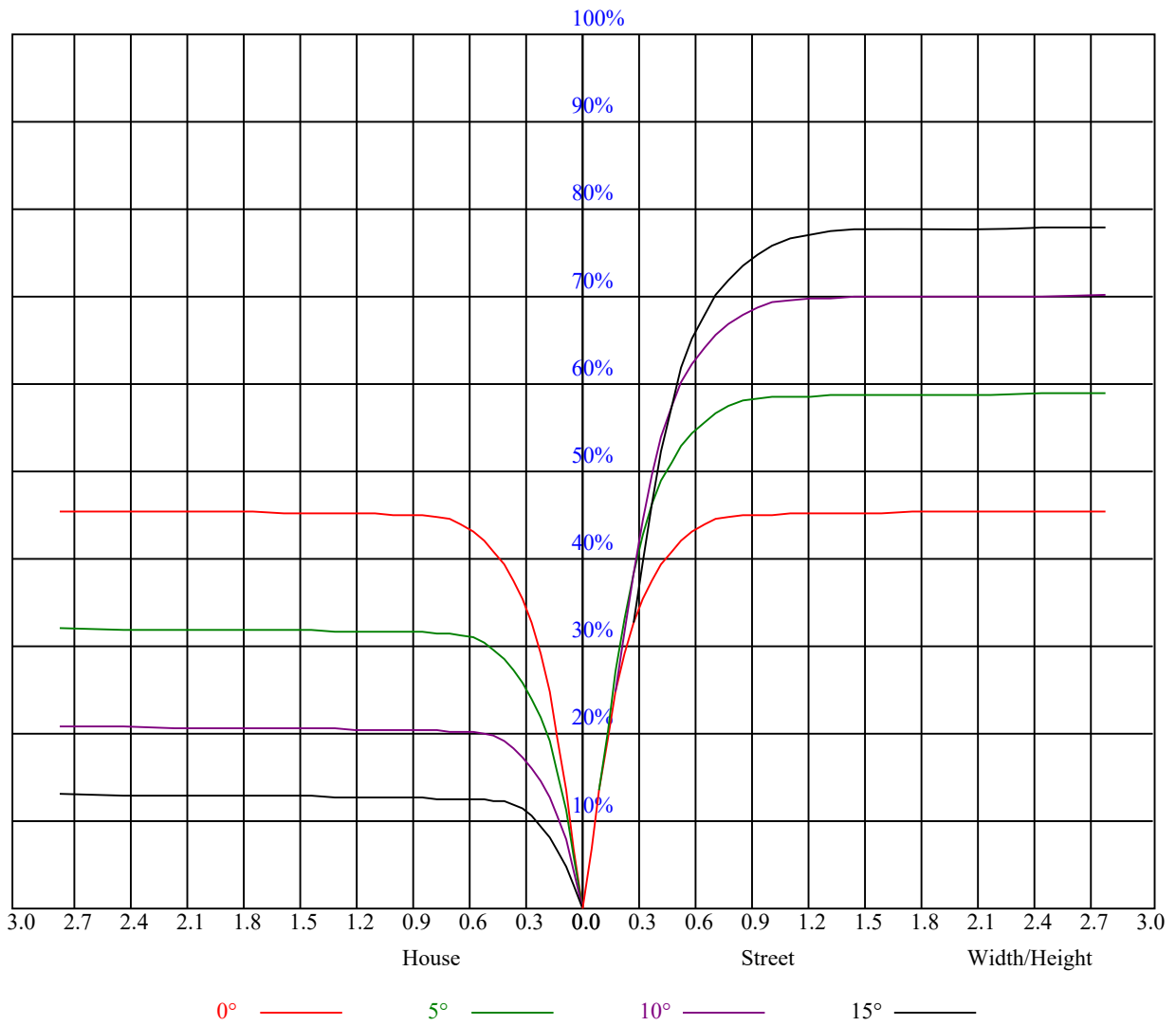
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOF=20 CU															
0	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.97	0.95	0.95	0.93	0.92	0.91	0.91	0.90	0.88
2	0.98	0.95	0.92	0.96	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.80
4	0.89	0.84	0.81	0.88	0.84	0.81	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.75	0.74
6	0.81	0.77	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.72	0.69	0.66	0.65
9	0.72	0.68	0.65	0.72	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61



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	7950.14	7743.13	5849.74	3248.33	1593.33	1024.05	882.00	534.60	53.24
45.0	7897.84	7967.21	6217.52	3546.18	1667.11	1042.77	900.17	612.23	156.31
90.0	8000.80	7600.54	5681.82	2940.56	1437.52	973.89	853.87	459.39	32.81
135.0	7976.57	7627.51	5829.37	3170.70	1614.80	997.62	866.04	484.50	55.11
180.0	7950.14	7112.19	5056.93	2636.10	1412.20	948.35	831.96	362.38	31.49
225.0	7897.84	6763.13	4688.60	2435.14	1076.46	931.17	798.81	246.32	30.23
270.0	8000.80	7205.23	5288.17	2848.62	1482.12	981.11	856.68	401.36	35.68
315.0	7976.57	7152.93	5075.10	2692.26	1397.33	969.54	847.37	360.18	30.28
360.0	7950.14	7743.13	5849.74	3248.33	1593.33	1024.05	882.00	534.60	53.24
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	14.53	12.00	11.23	10.74	10.41	10.13	10.02	9.91	9.80
45.0	14.87	11.95	11.18	10.74	10.41	10.19	9.97	9.86	9.86
90.0	15.31	11.56	10.96	10.57	10.30	10.02	9.86	9.80	9.74
135.0	13.93	11.78	11.12	10.68	10.35	10.13	9.91	9.86	9.74
180.0	12.99	11.78	11.12	10.74	10.35	10.19	9.97	9.86	9.80
225.0	12.55	11.51	11.01	10.57	10.30	10.19	9.97	9.86	9.80
270.0	13.71	11.56	10.96	10.63	10.35	10.52	11.29	10.90	10.19
315.0	12.55	11.51	10.90	10.46	10.24	10.02	9.86	9.80	9.74
360.0	14.53	12.00	11.23	10.74	10.41	10.13	10.02	9.91	9.80
C/γ(°)	90.0								
0.0	9.69								
45.0	9.69								
90.0	9.63								
135.0	9.69								
180.0	9.69								
225.0	9.69								
270.0	9.63								
315.0	9.63								
360.0	9.69								