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## Nata

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LumCAT: 1-0920-M	
Luminaire: 92.70.124.00	
Report No: NATA0100	Voltage(V): 34.6000
Test No: GC2019092408	Current(A): 0.2470
LampCAT: TRIDONIC SLE G7 9MM	Power (W): 8.5500
Lamp flux(lm): 1288.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1007.65  
Efficiency(%): 78.23%  
Lumens(lm)/Power(W): 117.85  
Central intensity(cd): 3303.985  
Maximum intensity(cd): 3303.985  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=33.1  
                                  [C90/270]Total=33.1  
Field angle(10%Imax): [C0/180]Total=49.1  
                                  [C90/270]Total=49.1  
Maximum s/h(1/2): C0\_180=0.55 C90\_270=0.55  
Maximum s/h(1/4): C0\_180=0.52 C90\_270=0.52  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 78.23%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.549%

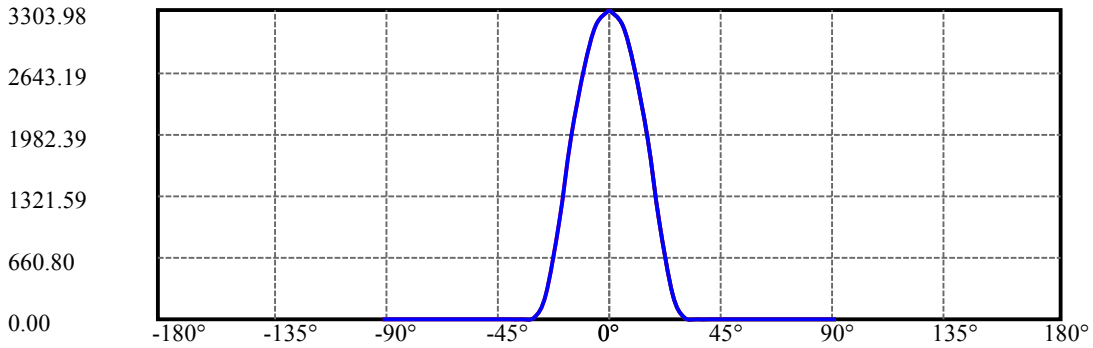
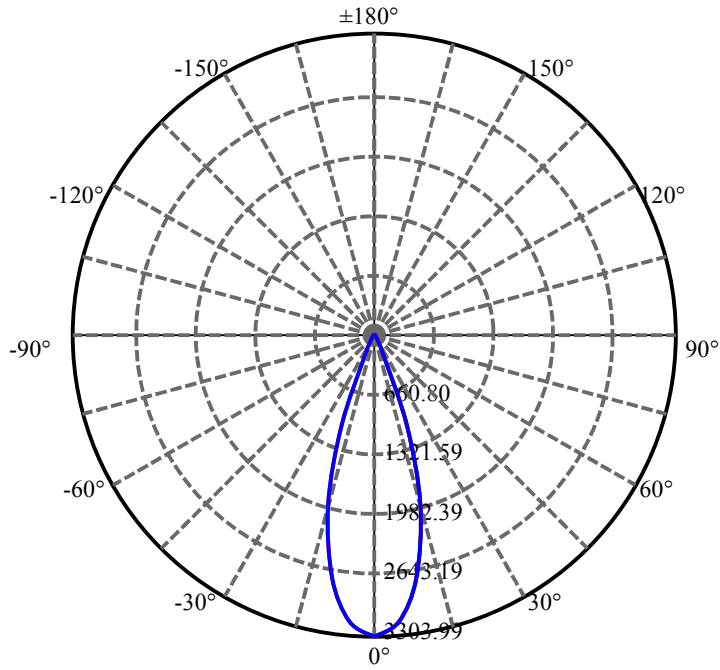
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3303.984	0.000	0	.000%	.000%
5.0	3142.195	77.062	77.062	5.983%	7.648%
10.0	2691.773	208.699	285.762	16.203%	28.359%
15.0	1920.727	273.610	559.372	21.243%	55.512%
20.0	1047.705	244.641	804.013	18.994%	79.791%
25.0	257.245	136.865	940.878	10.626%	93.373%
30.0	24.202	35.617	976.495	2.765%	96.908%
35.0	8.965	4.884	981.379	.379%	97.392%
40.0	6.729	2.618	983.998	.203%	97.652%
45.0	5.745	2.310	986.307	.179%	97.882%
50.0	5.280	2.228	988.535	.173%	98.103%
55.0	4.985	2.232	990.767	.173%	98.324%
60.0	4.816	2.266	993.033	.176%	98.549%
65.0	4.718	2.318	995.35	.180%	98.779%
70.0	4.662	2.375	997.725	.184%	99.015%
75.0	4.634	2.430	1000.155	.189%	99.256%
80.0	4.613	2.474	1002.629	.192%	99.501%
85.0	4.620	2.509	1005.138	.195%	99.750%
90.0	4.570	2.516	1007.654	.195%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	976.50	75.81%	96.91%
0-40	984.00	76.40%	97.65%
0-60	993.03	77.10%	98.55%
0-90	1005.14	78.04%	99.75%
0-120	1005.14	78.04%	99.75%
0-180	1007.65	78.23%	100.00%
60-90	14.37	1.12%	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%
0-20.08	806.12	62.59%	80.00%

ZONAL LUMEN SUMMARY

0-10	285.76
10-20	518.25
20-30	172.48
30-40	7.50
40-50	4.54
50-60	4.50
60-70	4.69
70-80	4.90
80-90	2.51
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: —————

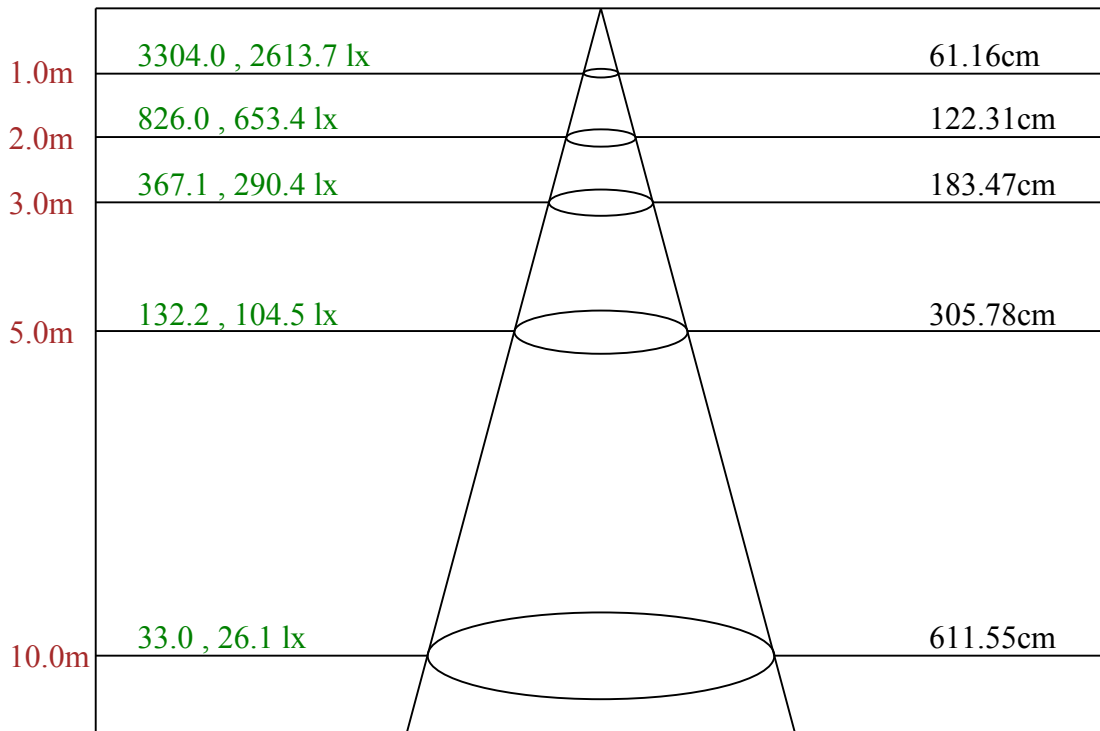
C90/C270: —————

Field angle(10%Imax):C0/180Left:24.5 Right:24.5

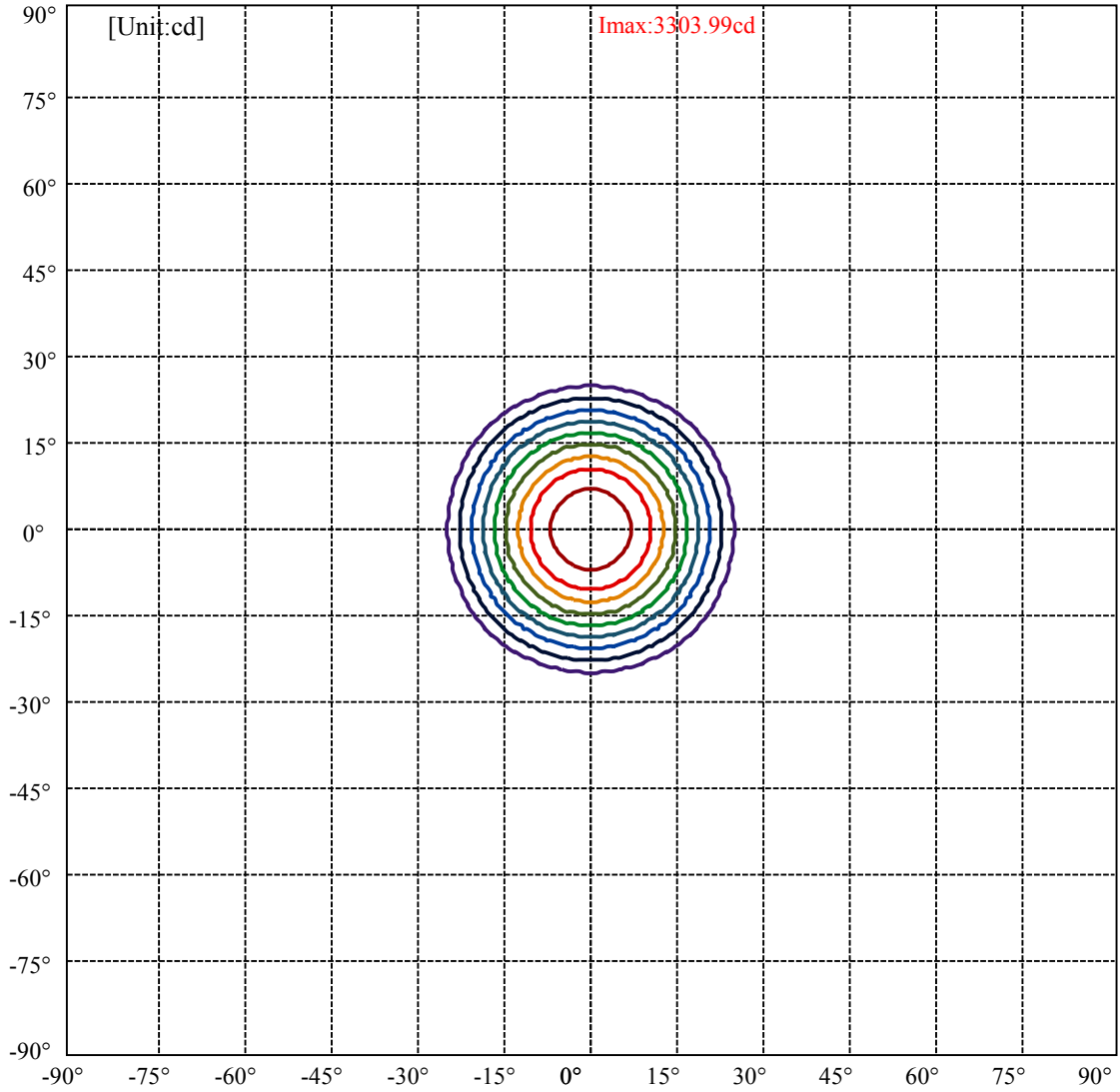
:C90/270Left:24.5 Right:24.5

Beam Angle(50%Imax):C0/180Left:16.5 Right:16.5

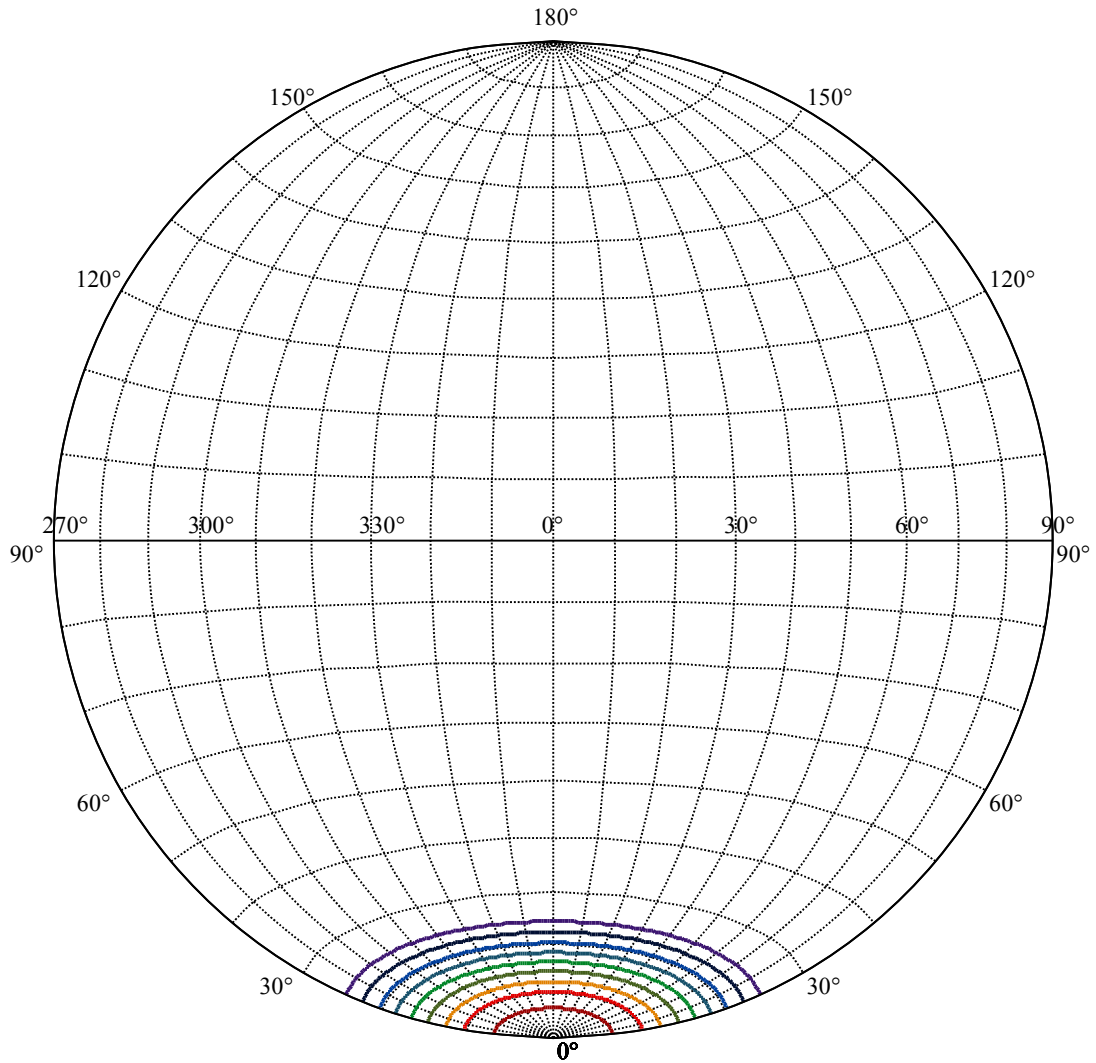
:C90/270Left:16.5 Right:16.5



Max , Ave      Beam angle of C0 plane 34.00



(10%Imax) 330.398	—
(20%Imax) 660.797	—
(30%Imax) 991.195	—
(40%Imax) 1321.59	—
(50%Imax) 1651.99	—
(60%Imax) 1982.39	—
(70%Imax) 2312.79	—
(80%Imax) 2643.19	—
(90%Imax) 2973.59	—



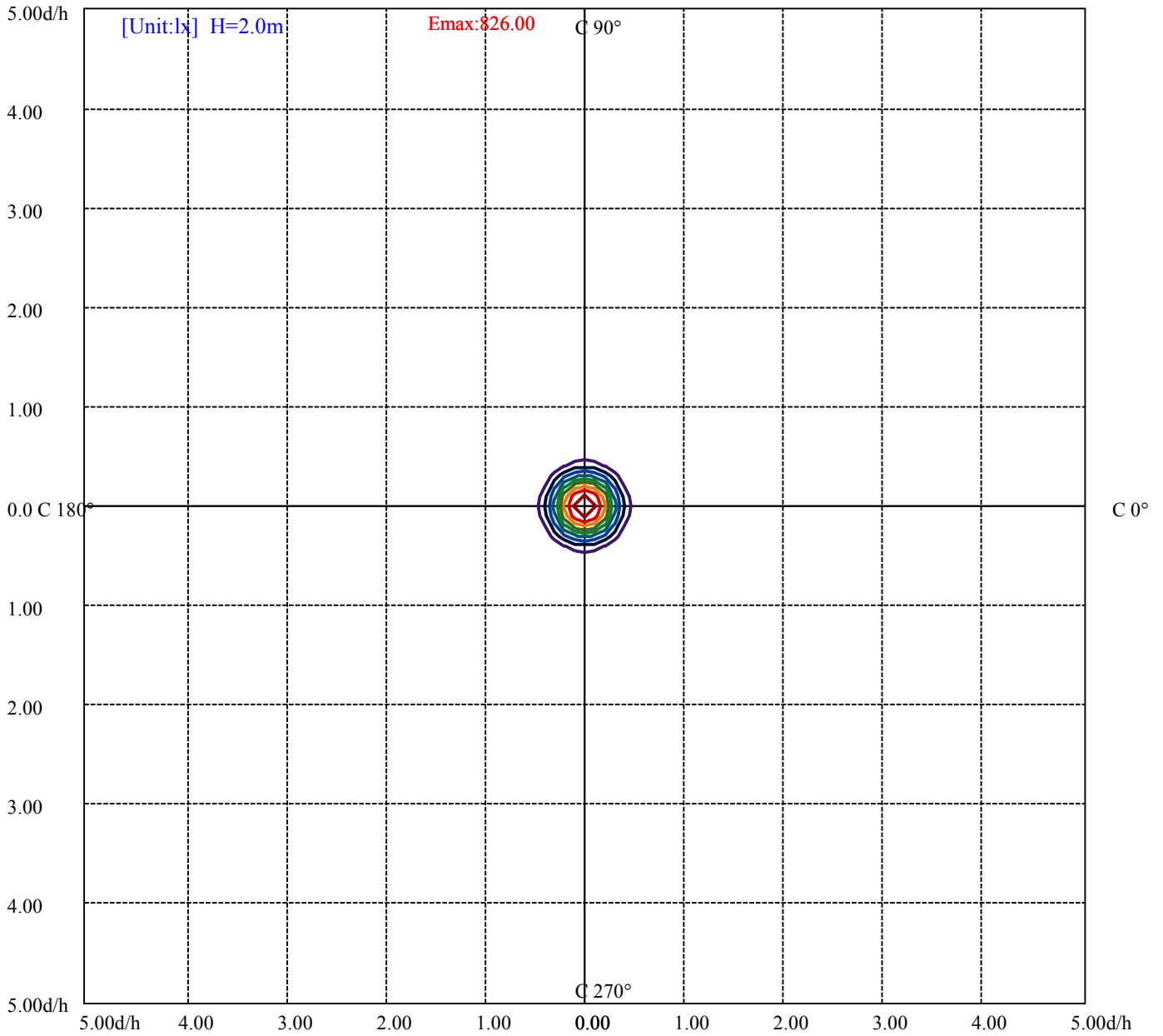
House

[Unit:cd]

Road

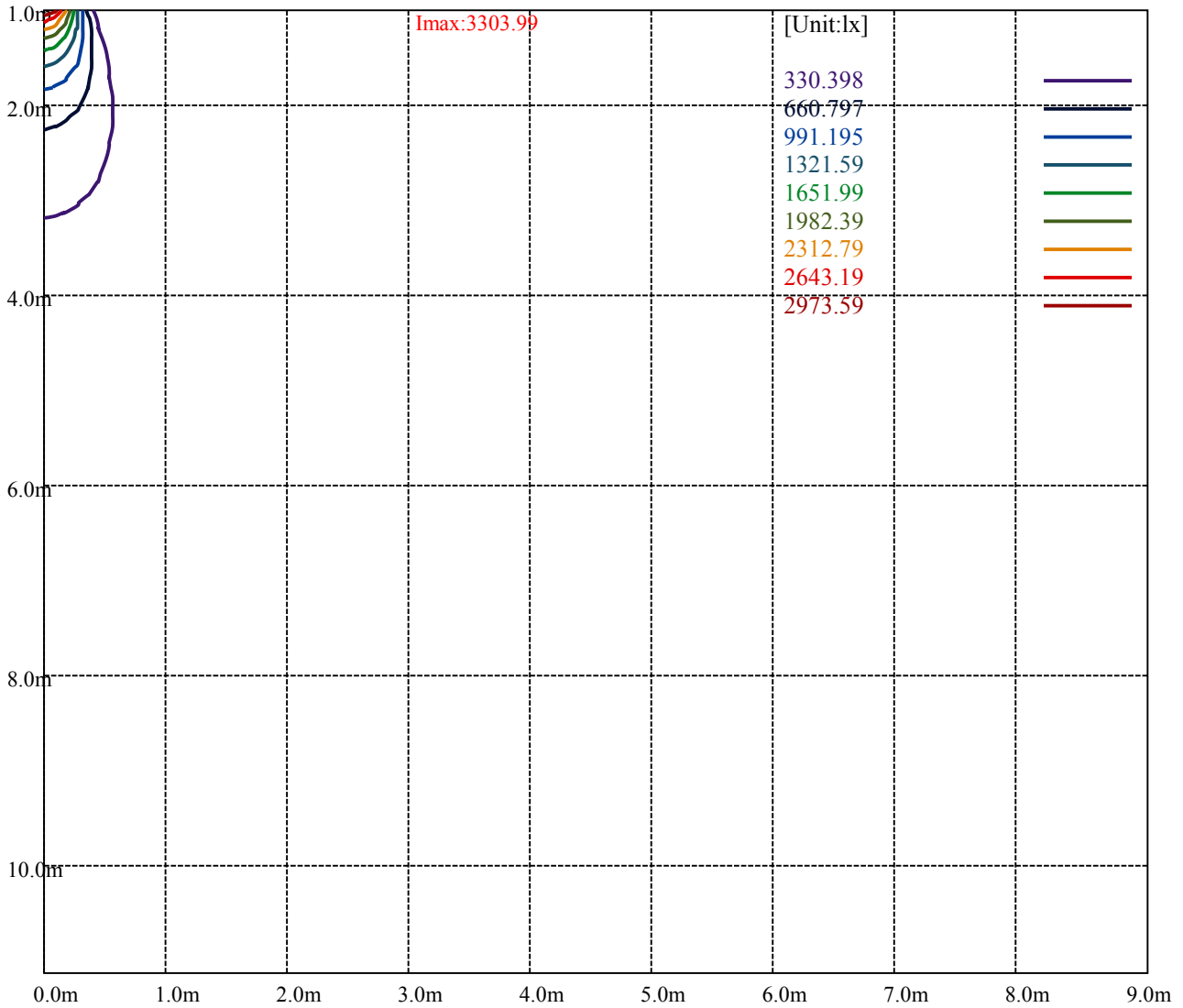
**Imax:3303.99**

(10%Imax) 330.398	—
(20%Imax) 660.797	—
(30%Imax) 991.195	—
(40%Imax) 1321.59	—
(50%Imax) 1651.99	—
(60%Imax) 1982.39	—
(70%Imax) 2312.79	—
(80%Imax) 2643.19	—
(90%Imax) 2973.59	—



(10%Emax) 82.5995	—
(20%Emax) 165.199	—
(30%Emax) 247.7985	—
(40%Emax) 330.3975	—
(50%Emax) 412.9975	—
(60%Emax) 495.5975	—
(70%Emax) 578.1975	—
(80%Emax) 660.795	—
(90%Emax) 743.395	—





Luminance Table

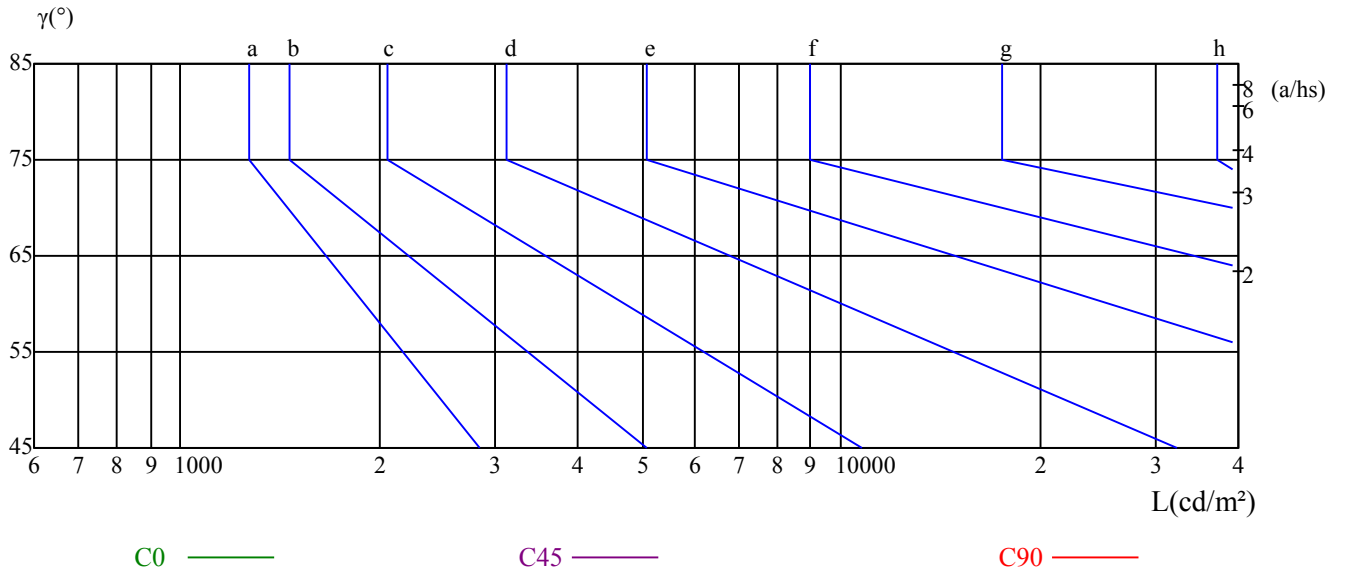
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

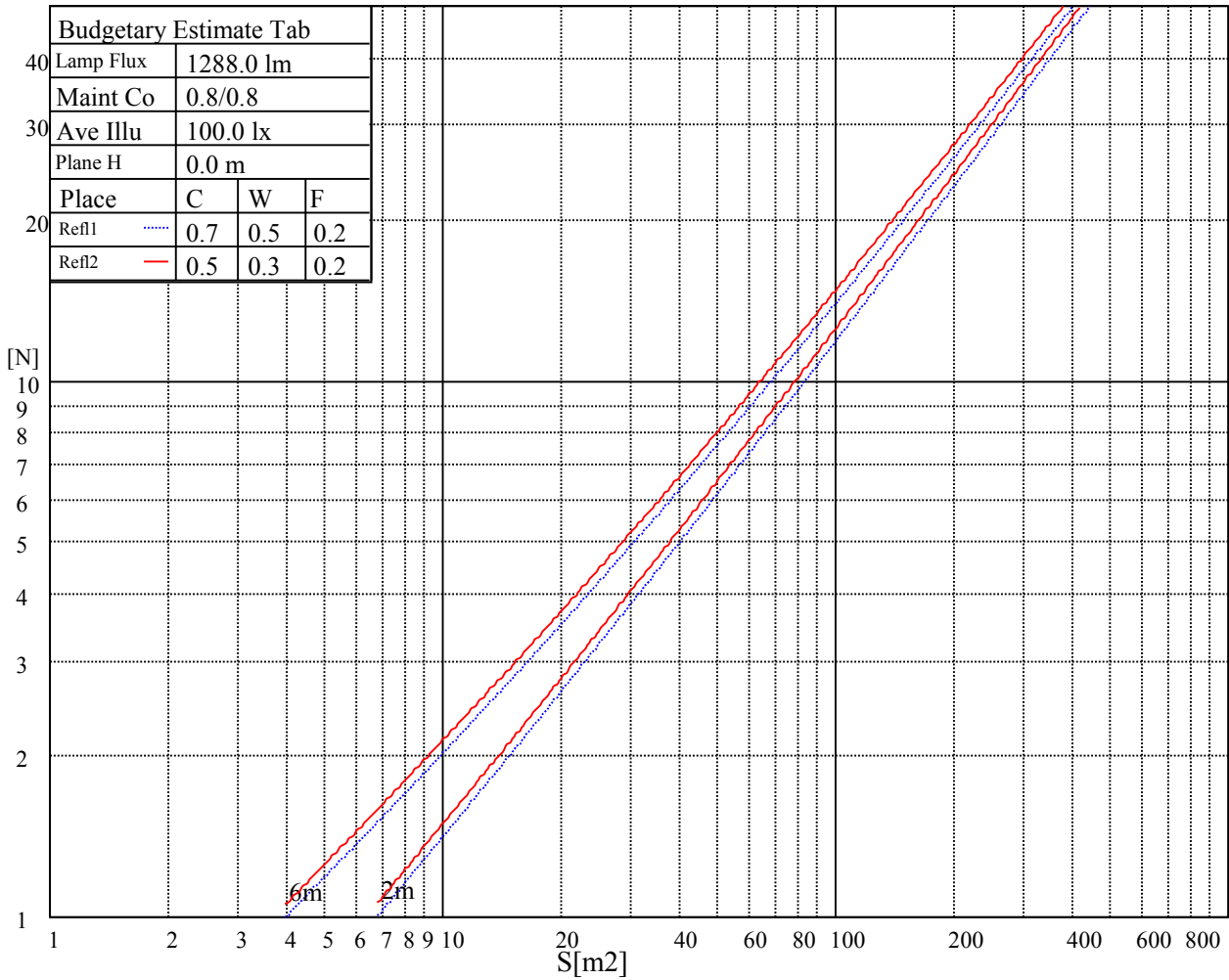
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

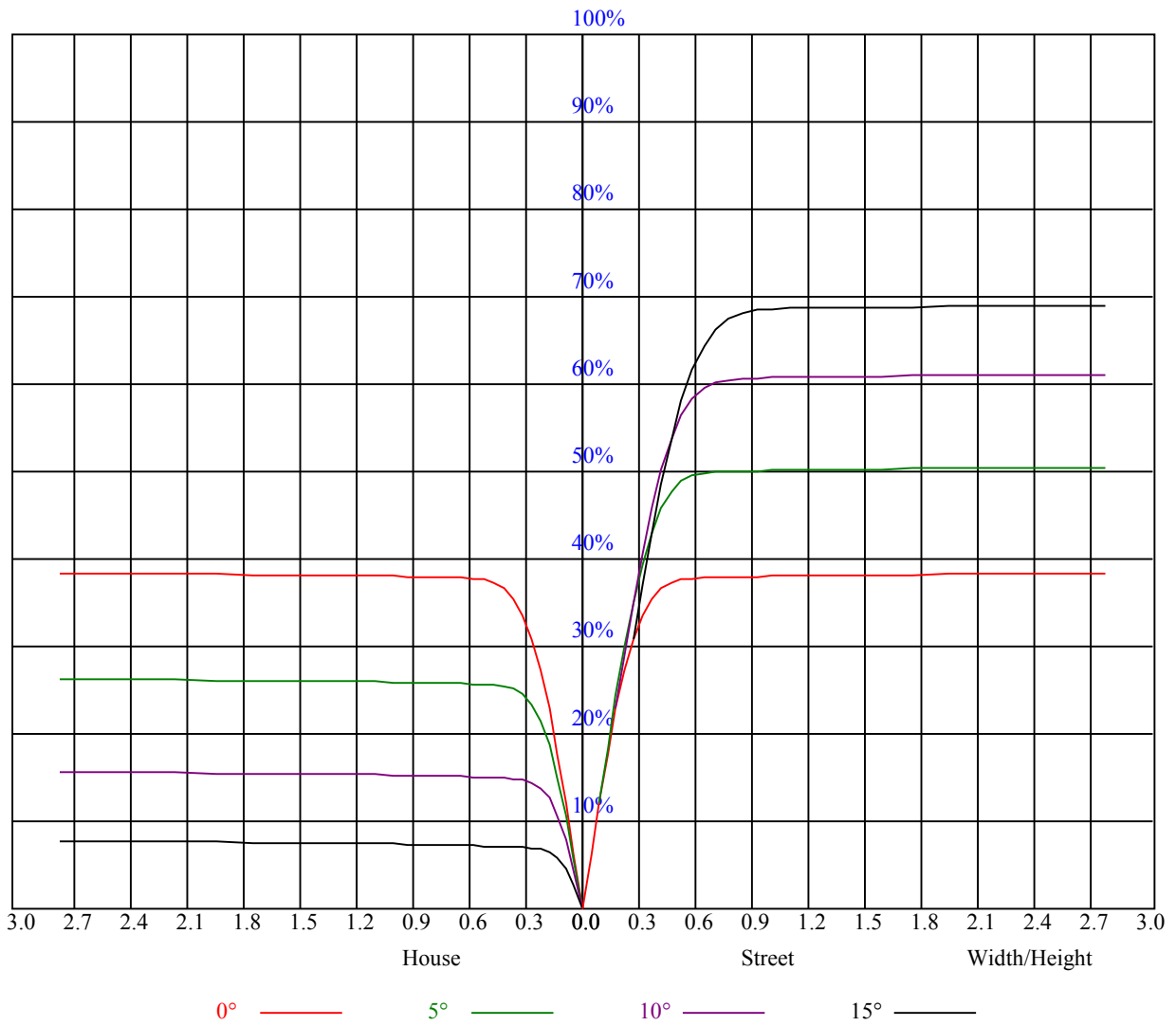
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.93	0.93	0.93	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.78
1	0.88	0.86	0.85	0.86	0.85	0.83	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.75
2	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.75	0.74	0.73	0.72
3	0.80	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.73	0.72	0.71	0.70
4	0.77	0.73	0.71	0.76	0.73	0.70	0.74	0.72	0.70	0.73	0.71	0.69	0.71	0.70	0.68	0.67
5	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.70	0.68	0.66	0.69	0.67	0.66	0.65
6	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.67	0.65	0.64	0.63
7	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.66	0.63	0.62	0.61
8	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
9	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
10	0.62	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.58	0.57	0.61	0.58	0.56	0.56



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Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	3312.00	3152.25	2708.44	1942.31	1043.44	294.19	26.49	9.62	6.98
45.0	3295.13	3188.81	2786.63	2052.00	1202.63	336.38	33.24	10.07	7.14
90.0	3306.38	3162.38	2704.50	1935.56	1079.89	254.81	23.91	8.66	6.75
135.0	3302.44	3199.50	2864.25	2127.38	1236.94	353.81	34.88	9.06	6.75
180.0	3312.00	3148.88	2657.81	1935.00	1043.49	220.16	20.08	8.21	6.47
225.0	3295.13	3090.94	2575.13	1710.00	907.48	145.69	14.51	8.27	6.41
270.0	3306.38	3123.00	2670.19	1932.75	1040.06	311.06	22.22	9.17	6.75
315.0	3302.44	3071.81	2567.25	1730.81	827.72	141.86	18.28	8.66	6.58
360.0	3312.00	3152.25	2708.44	1942.31	1043.44	294.19	26.49	9.62	6.98
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	5.85	5.34	4.95	4.78	4.67	4.61	4.61	4.56	4.56
45.0	5.96	5.46	5.12	4.89	4.78	4.73	4.67	4.61	4.61
90.0	5.74	5.29	5.01	4.84	4.73	4.67	4.67	4.67	4.67
135.0	5.79	5.29	5.01	4.84	4.73	4.67	4.61	4.56	4.56
180.0	5.63	5.23	4.89	4.73	4.67	4.61	4.56	4.56	4.56
225.0	5.57	5.18	4.95	4.84	4.73	4.67	4.61	4.67	4.61
270.0	5.74	5.29	5.01	4.84	4.78	4.73	4.73	4.73	4.84
315.0	5.68	5.18	4.95	4.78	4.67	4.61	4.61	4.56	4.56
360.0	5.85	5.34	4.95	4.78	4.67	4.61	4.61	4.56	4.56
C/ $\gamma$ (°)	90.0								
0.0	4.56								
45.0	4.61								
90.0	4.61								
135.0	4.56								
180.0	4.50								
225.0	4.61								
270.0	4.56								
315.0	4.56								
360.0	4.56								