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Nata

LumCAT: 2-1738-M
Luminaire: 92.70.136.00
Report No: NT2017082602
Test No: GC2017082602
LampCAT: CREE CXA3050
Lamp flux(lm): 3994.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 36.7000
Current(A): 1.0000
Power (W): 36.7000
PF: 0.0000
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results

Lumens(lm): 3534.45
Efficiency(%): 88.49%
Lumens(lm)/Power(W): 96.31
Central intensity(cd): 10526.230
Maximum intensity(cd): 10526.230
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=26.3
 [C90/270]Total=26.3
Field angle(10%Imax): [C0/180]Total=64.9
 [C90/270]Total=64.9
Maximum s/h(1/2): C0_180=0.45 C90_270=0.45
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.49%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.665%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/8/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

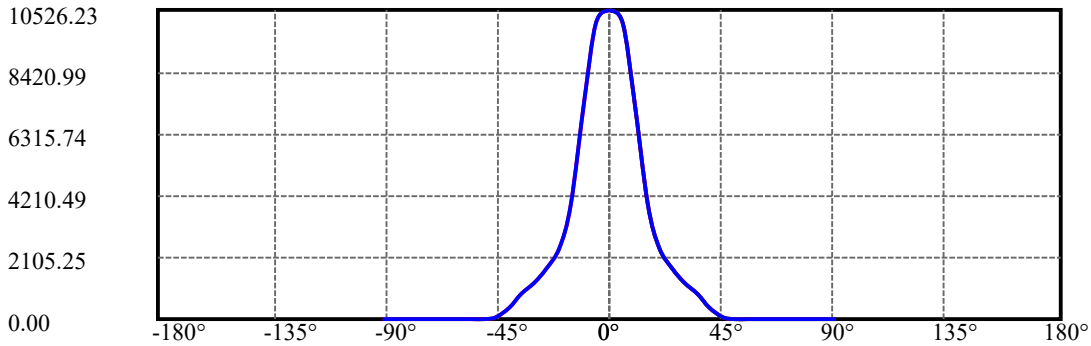
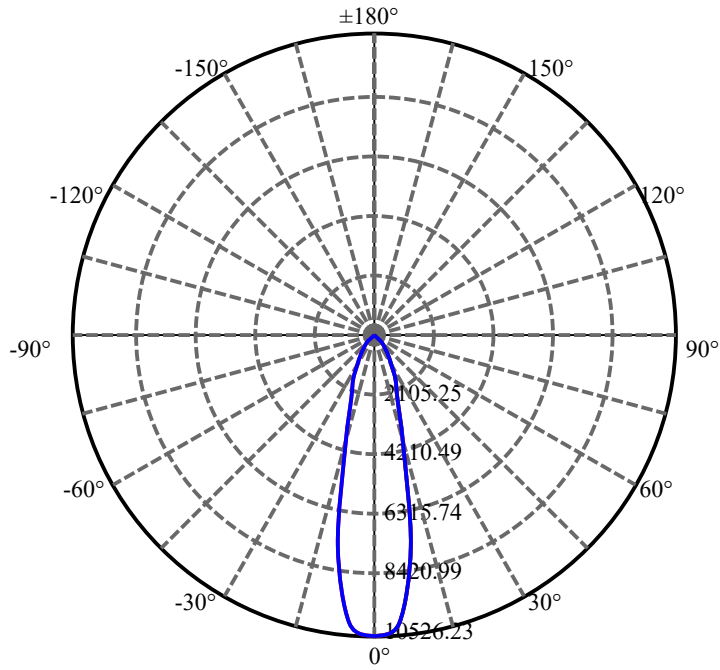
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10526.233	0.000	0	.000%	.000%
5.0	10068.439	246.203	246.203	6.164%	6.966%
10.0	7465.304	627.237	873.441	15.704%	24.712%
15.0	3943.139	676.741	1550.182	16.944%	43.859%
20.0	2387.039	521.696	2071.877	13.062%	58.620%
25.0	1679.977	426.555	2498.432	10.680%	70.688%
30.0	1268.795	373.170	2871.602	9.343%	81.246%
35.0	828.337	308.817	3180.42	7.732%	89.983%
40.0	367.563	199.527	3379.947	4.996%	95.629%
45.0	49.957	77.307	3457.254	1.936%	97.816%
50.0	20.041	14.144	3471.398	.354%	98.216%
55.0	17.432	8.148	3479.546	.204%	98.447%
60.0	15.994	7.726	3487.272	.193%	98.665%
65.0	15.037	7.544	3494.816	.189%	98.879%
70.0	14.824	7.561	3502.377	.189%	99.093%
75.0	15.313	7.877	3510.254	.197%	99.315%
80.0	15.313	8.194	3518.448	.205%	99.547%
85.0	14.858	8.198	3526.647	.205%	99.779%
90.0	13.633	7.801	3534.448	.195%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2871.60	71.90%	81.25%
0-40	3379.95	84.63%	95.63%
0-60	3487.27	87.31%	98.67%
0-90	3526.65	88.30%	99.78%
0-120	3526.65	88.30%	99.78%
0-180	3534.45	88.49%	100.00%
60-90	47.10	1.18%	1.33%
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%
0-29.41	2827.56	70.80%	80.00%

ZONAL LUMEN SUMMARY

0-10	873.44
10-20	1198.44
20-30	799.72
30-40	508.34
40-50	91.45
50-60	15.87
60-70	15.10
70-80	16.07
80-90	8.20
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



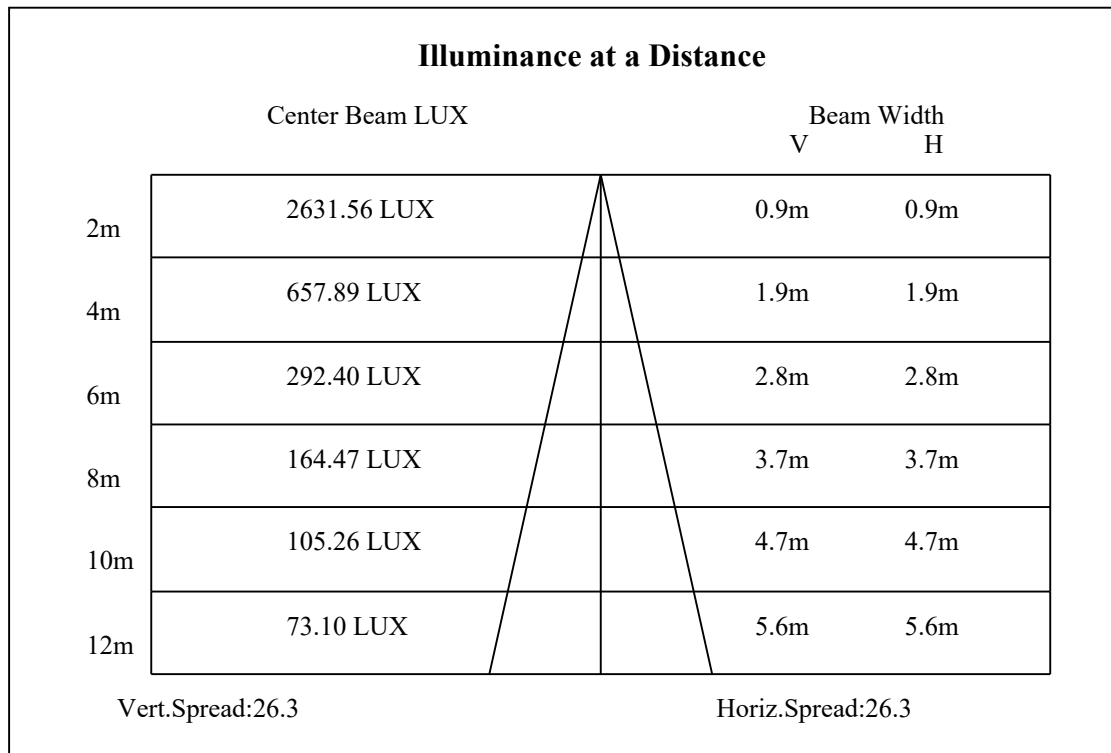
C0(Max): —————

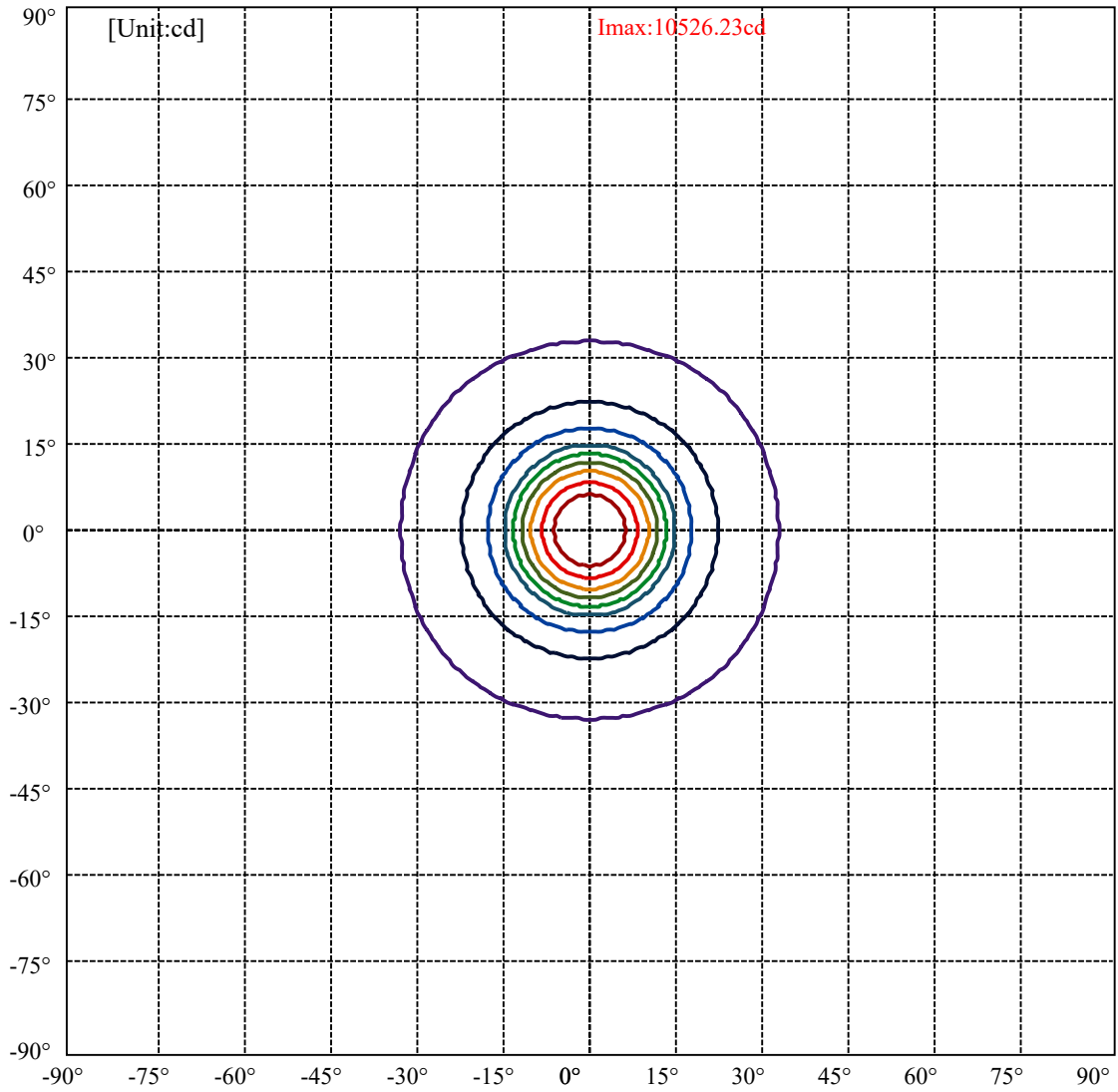
C0/C180: —————

C90/C270: —————

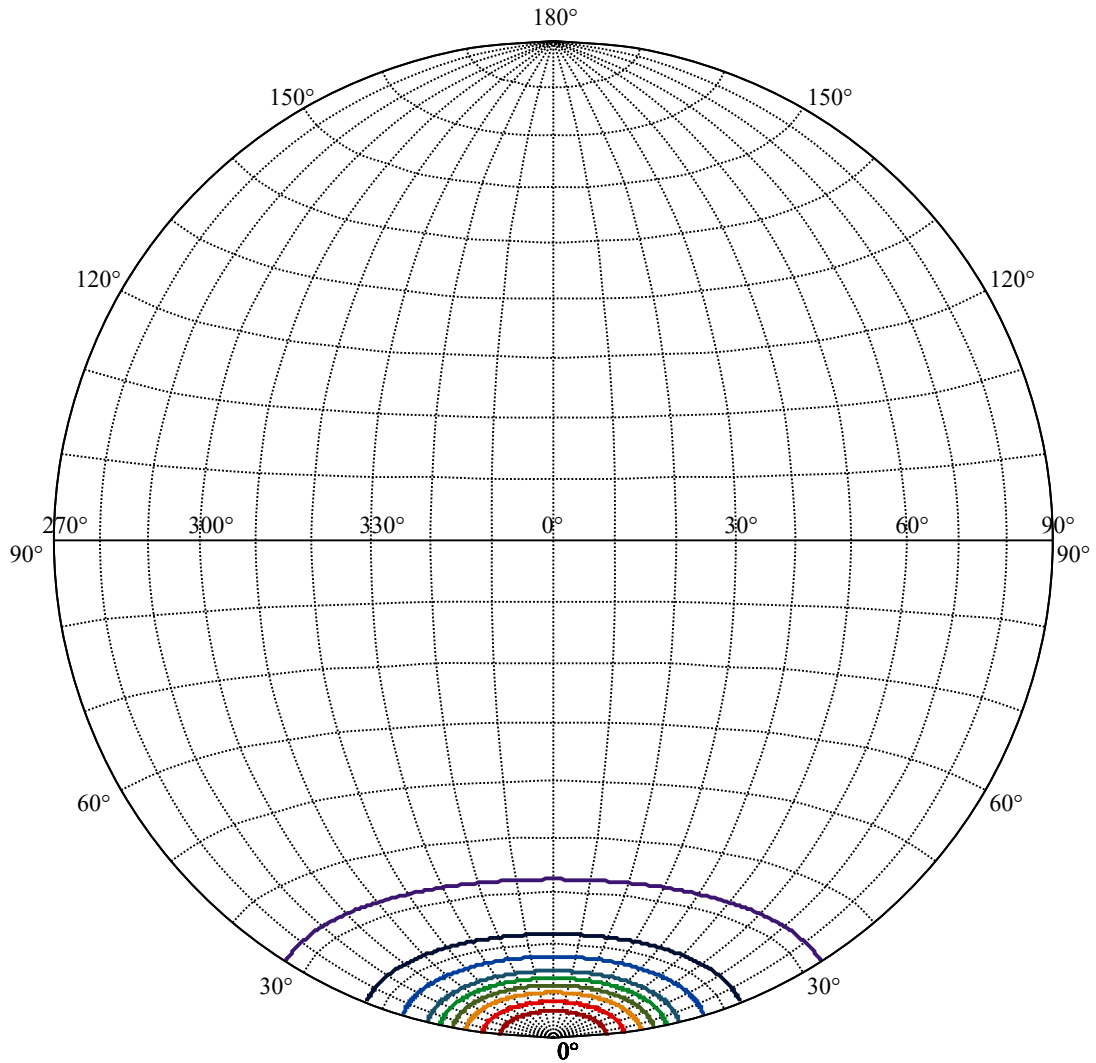
Field angle(10%Imax):C0/180Left:32.5 Right:32.5
:C90/270Left:32.5 Right:32.5

Beam Angle(50%Imax):C0/180Left:13.1 Right:13.1
:C90/270Left:13.1 Right:13.1





(10%Imax) 1052.62	—
(20%Imax) 2105.25	—
(30%Imax) 3157.87	—
(40%Imax) 4210.49	—
(50%Imax) 5263.12	—
(60%Imax) 6315.74	—
(70%Imax) 7368.36	—
(80%Imax) 8420.99	—
(90%Imax) 9473.61	—



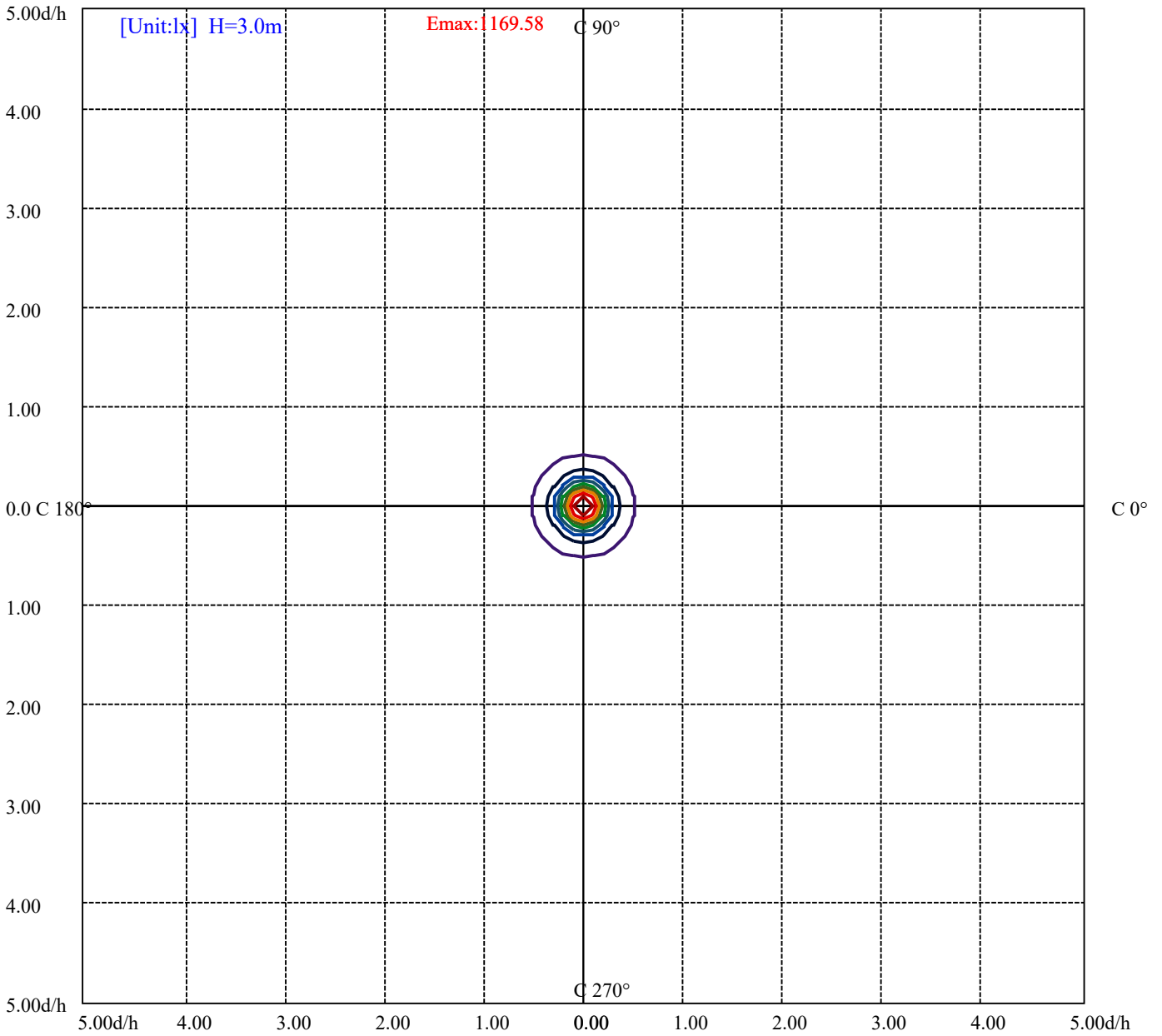
House

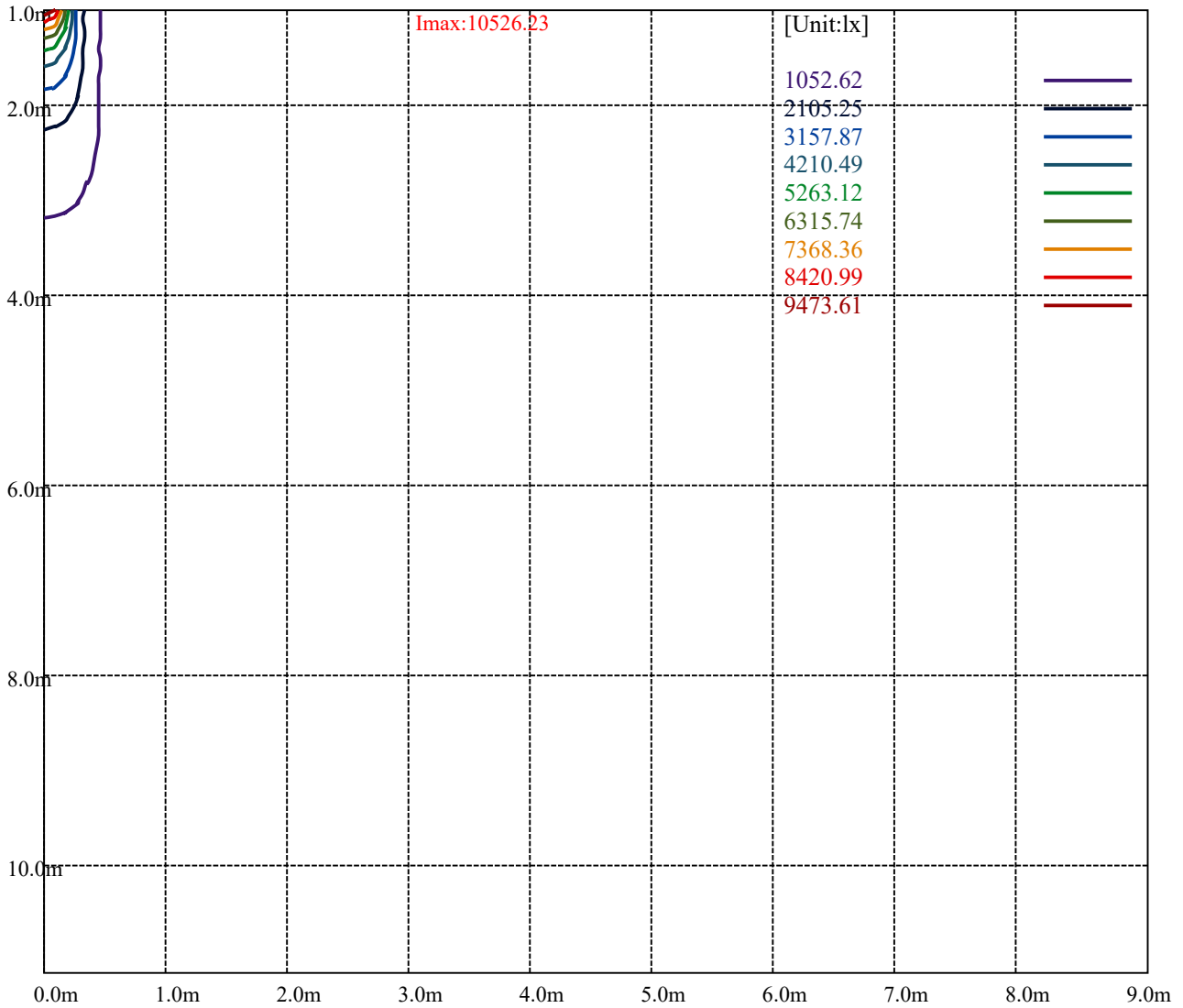
[Unit:cd]

Road

Imax:10526.23

(10%Imax)	1052.62	—
(20%Imax)	2105.25	—
(30%Imax)	3157.87	—
(40%Imax)	4210.49	—
(50%Imax)	5263.12	—
(60%Imax)	6315.74	—
(70%Imax)	7368.36	—
(80%Imax)	8420.99	—
(90%Imax)	9473.61	—





Luminance Table

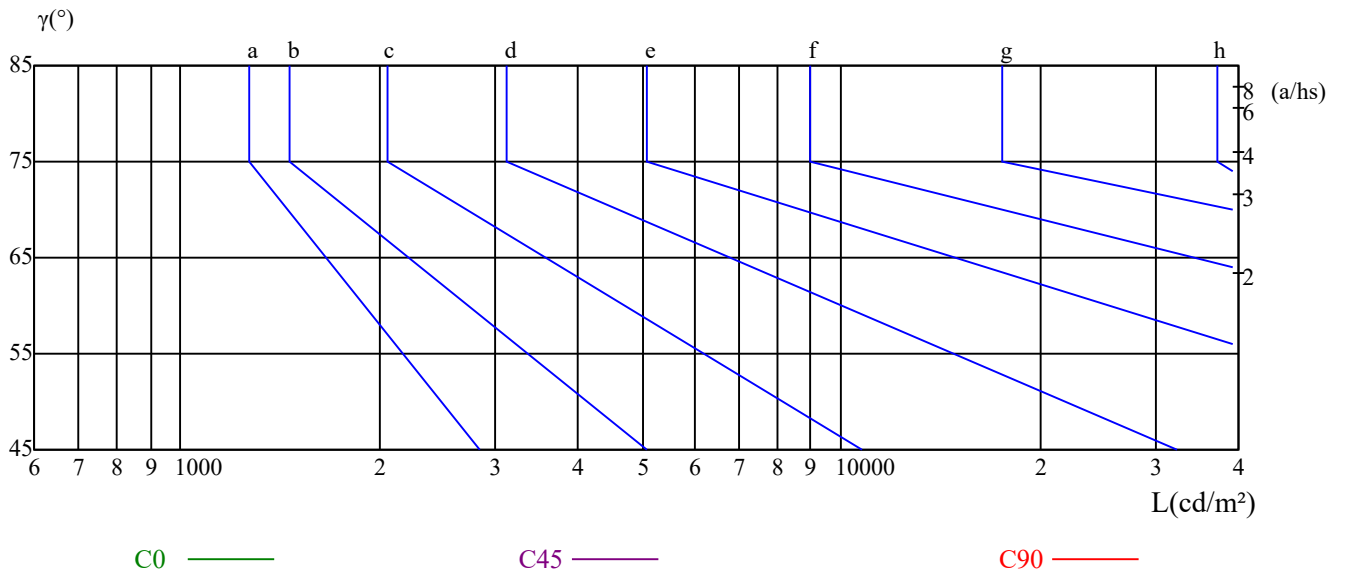
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

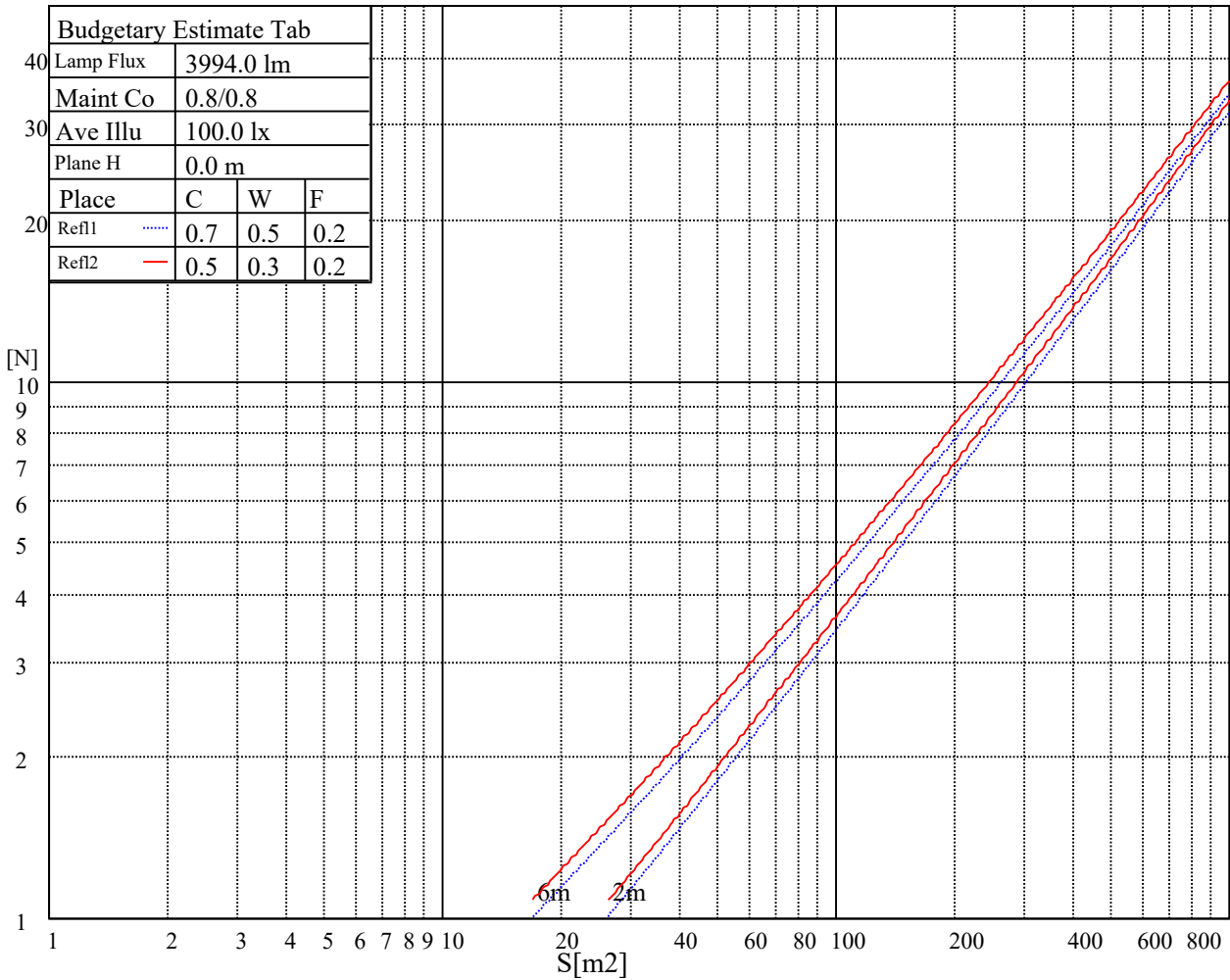
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

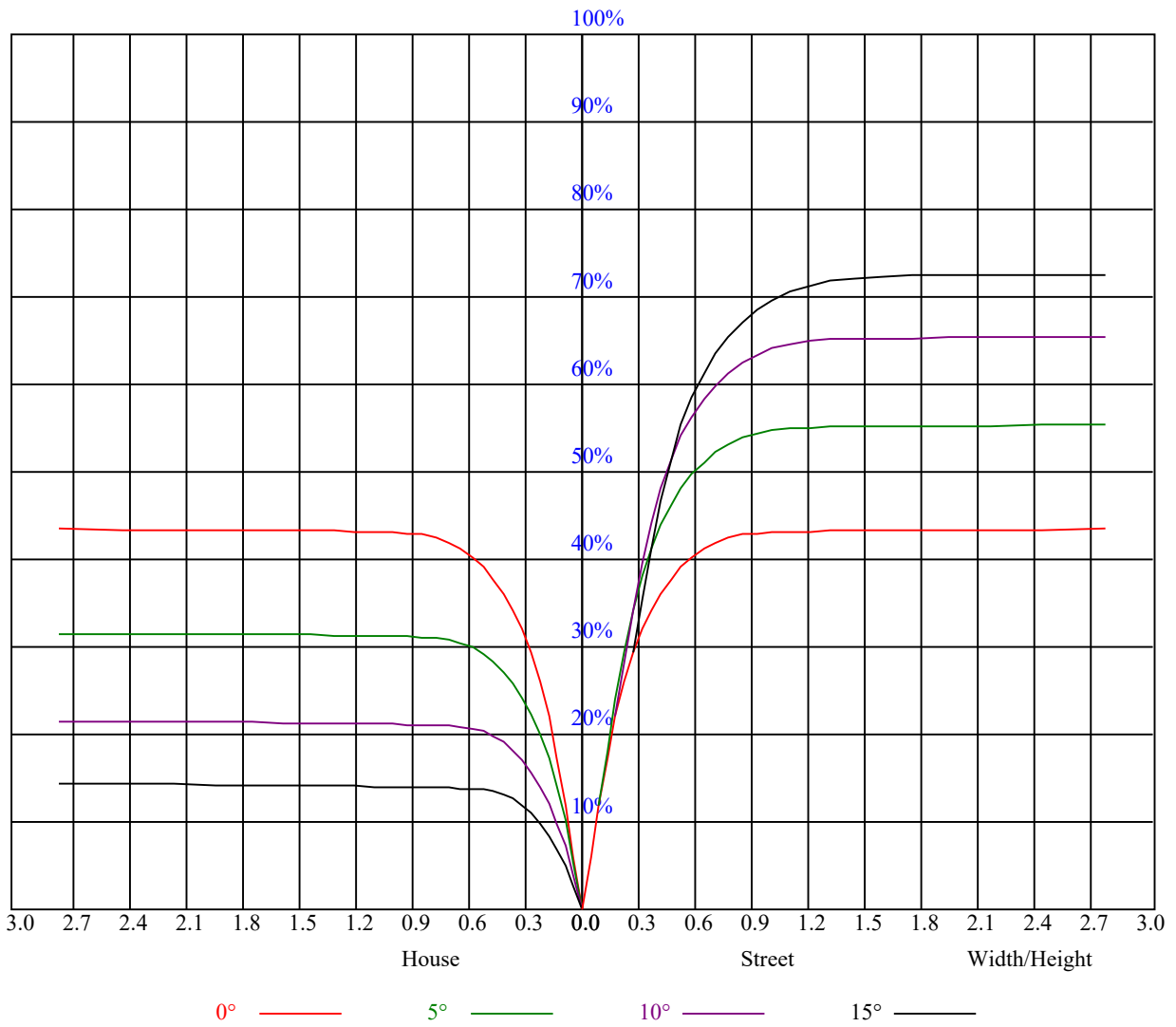
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.99	0.97	0.95	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.90	0.87	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.81	0.79
3	0.88	0.84	0.81	0.87	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.77	0.75
4	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.72
5	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
7	0.72	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.65	0.62	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.64	0.61	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	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	10539.45	10309.86	8034.38	4295.50	2544.71	1755.75	1378.06	896.87	448.16
45.0	10516.87	10187.64	7660.55	4233.84	2447.26	1678.12	1327.96	836.86	365.02
90.0	10514.67	9907.95	6987.76	3606.74	2245.20	1612.05	1085.88	757.47	288.88
135.0	10533.94	10152.40	7733.77	4025.72	2436.25	1688.58	1358.24	865.49	395.86
180.0	10539.45	9880.97	6686.60	3601.79	2239.14	1607.10	1075.80	761.82	315.03
225.0	10516.87	9999.89	7204.68	3717.96	2310.72	1670.96	1232.16	797.66	352.09
270.0	10514.67	10234.98	8201.75	4228.88	2536.45	1761.80	1382.47	905.68	410.72
315.0	10533.94	9873.81	7212.94	3834.68	2336.59	1665.46	1309.79	804.87	364.75
360.0	10539.45	10309.86	8034.38	4295.50	2544.71	1755.75	1378.06	896.87	448.16

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	73.78	21.09	18.17	16.35	15.20	16.02	18.22	18.88	17.40
45.0	47.02	20.70	17.84	16.24	15.31	15.86	18.50	18.72	17.56
90.0	36.39	19.43	17.01	15.75	14.92	14.42	14.98	14.81	14.37
135.0	55.22	19.66	17.18	15.91	14.98	14.48	14.15	13.93	13.82
180.0	39.42	19.21	16.96	15.69	14.87	14.42	14.09	13.98	13.82
225.0	41.29	19.77	17.34	15.91	14.92	14.42	14.15	14.04	13.98
270.0	62.65	20.48	17.67	16.19	15.14	14.53	14.26	14.09	13.98
315.0	43.88	19.99	17.29	15.91	14.98	14.42	14.15	14.04	13.93
360.0	73.78	21.09	18.17	16.35	15.20	16.02	18.22	18.88	17.40

C/γ(°)	90.0
0.0	13.60
45.0	13.65
90.0	13.60
135.0	13.65
180.0	13.60
225.0	13.65
270.0	13.65
315.0	13.65
360.0	13.60