
LumCAT: 3-2326-M
Luminaire: 92.70.135.00
Report No: Voltage(V): 34.6300
Test No: GC2019051509 Current(A): 0.4000
LampCAT: LUMILEDS LUXEON 1205 Power (W): 13.8500
Lamp flux(lm): 1660.9 PF: 0.0000
Number of Lamps: 1 Ballast type: DC
Length(mm): 78 Width(mm): 78
Phm Type: C Height(mm): 0

Photometric Results

Lumens(lm): 1480.06
Efficiency(%): 89.11%
Lumens(lm)/Power(W): 106.86
Central intensity(cd): 3523.922
Maximum intensity(cd): 3523.922
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.8
 [C90/270]Total=33.8
Field angle(10%Imax): [C0/180]Total=68.6
 [C90/270]Total=68.6
Maximum s/h(1/2): C0_180=0.56 C90_270=0.56
Maximum s/h(1/4): C0_180=0.56 C90_270=0.56
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.11%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.791%

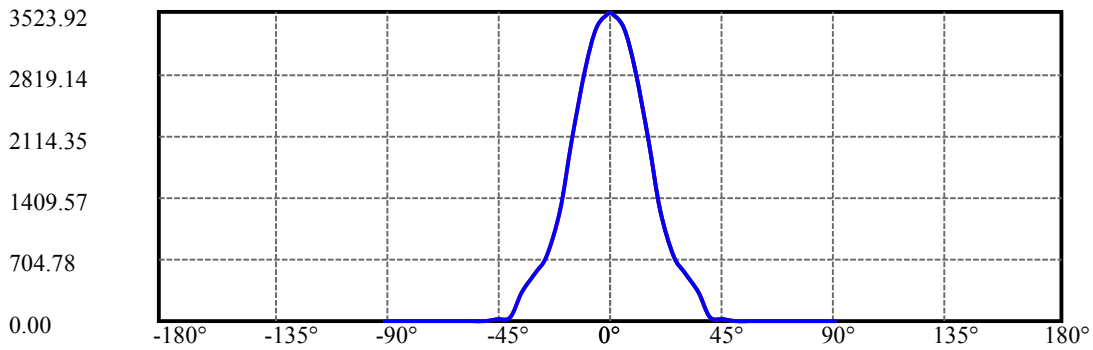
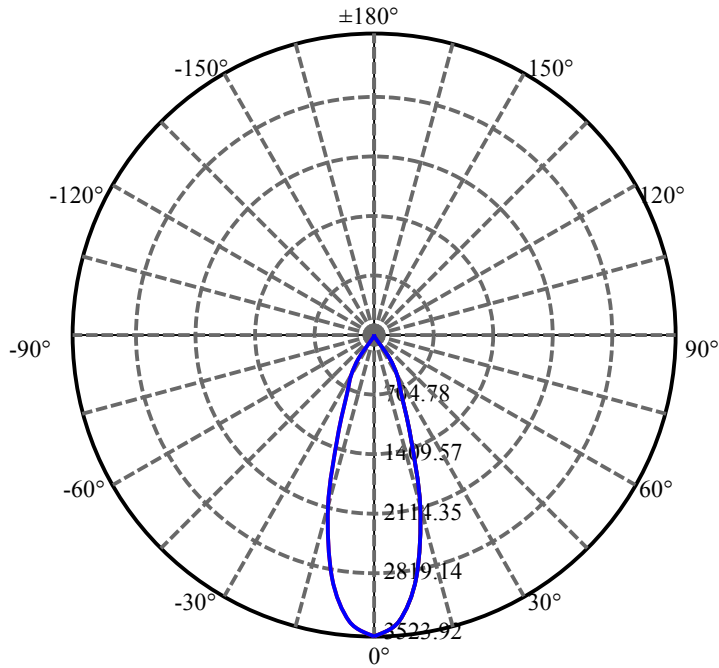
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3523.922	0.000	0	.000%	.000%
5.0	3354.539	82.230	82.23	4.951%	5.556%
10.0	2863.336	222.433	304.663	13.392%	20.585%
15.0	2065.922	292.400	597.063	17.605%	40.340%
20.0	1270.441	274.963	872.026	16.555%	58.918%
25.0	753.961	212.322	1084.349	12.784%	73.264%
30.0	553.676	165.483	1249.831	9.963%	84.445%
35.0	320.709	128.759	1378.591	7.752%	93.144%
40.0	48.445	61.591	1440.181	3.708%	97.306%
45.0	11.313	11.065	1451.246	.666%	98.053%
50.0	8.775	4.059	1455.305	.244%	98.328%
55.0	7.538	3.547	1458.852	.214%	98.567%
60.0	6.771	3.307	1462.16	.199%	98.791%
65.0	6.216	3.157	1465.317	.190%	99.004%
70.0	5.836	3.052	1468.368	.184%	99.210%
75.0	5.541	2.974	1471.342	.179%	99.411%
80.0	5.386	2.924	1474.266	.176%	99.609%
85.0	5.302	2.904	1477.17	.175%	99.805%
90.0	5.252	2.890	1480.059	.174%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1249.83	75.25%	84.44%
0-40	1440.18	86.71%	97.31%
0-60	1462.16	88.03%	98.79%
0-90	1477.17	88.94%	99.80%
0-120	1477.17	88.94%	99.80%
0-180	1480.06	89.11%	100.00%
60-90	18.32	1.10%	1.24%
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%
0-28.01	1184.05	71.29%	80.00%

ZONAL LUMEN SUMMARY

0-10	304.66
10-20	567.36
20-30	377.80
30-40	190.35
40-50	15.12
50-60	6.85
60-70	6.21
70-80	5.90
80-90	2.90
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: ———

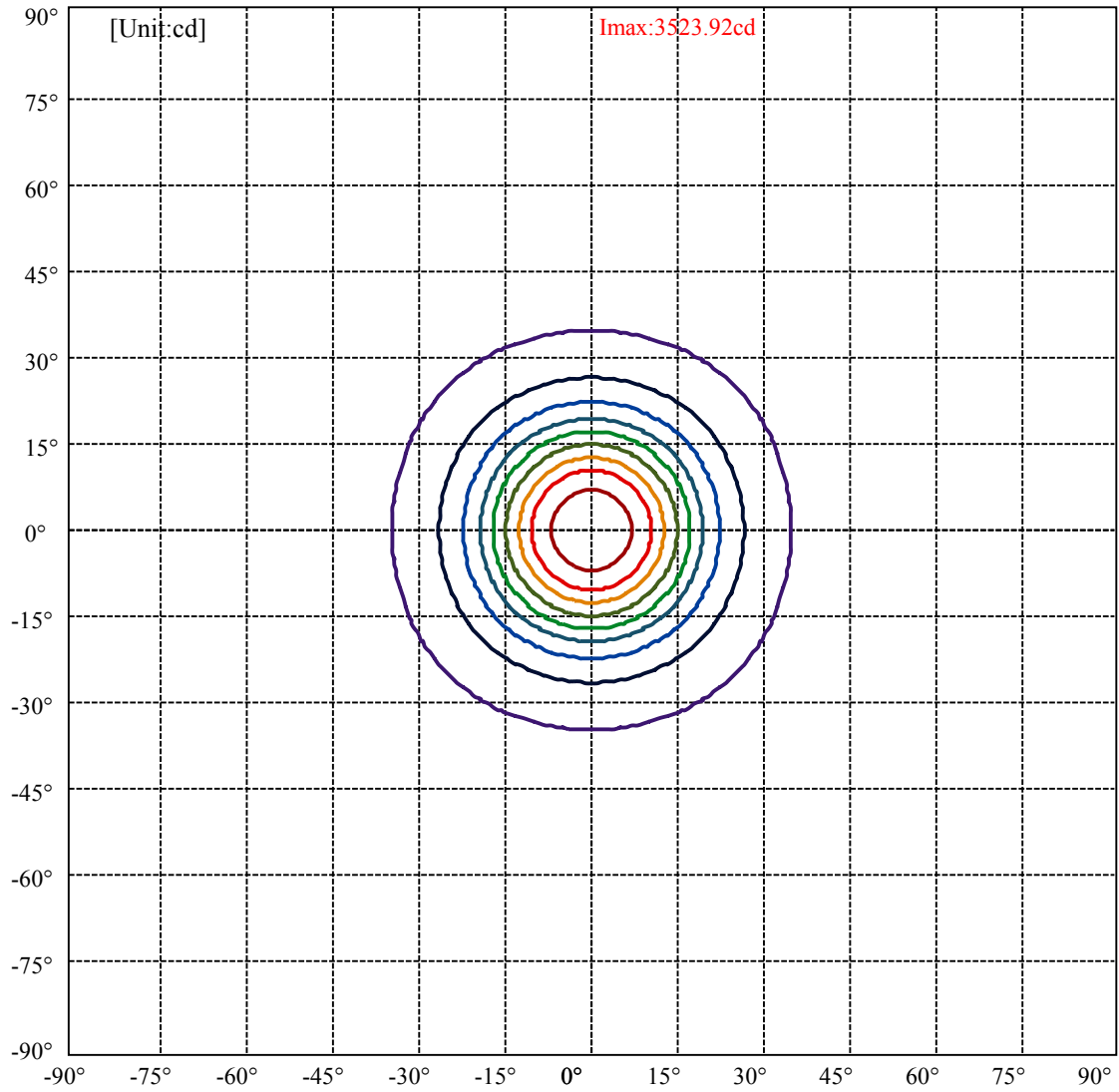
C90/C270: ———

Field angle(10%Imax):C0/180Left:34.3 Right:34.3

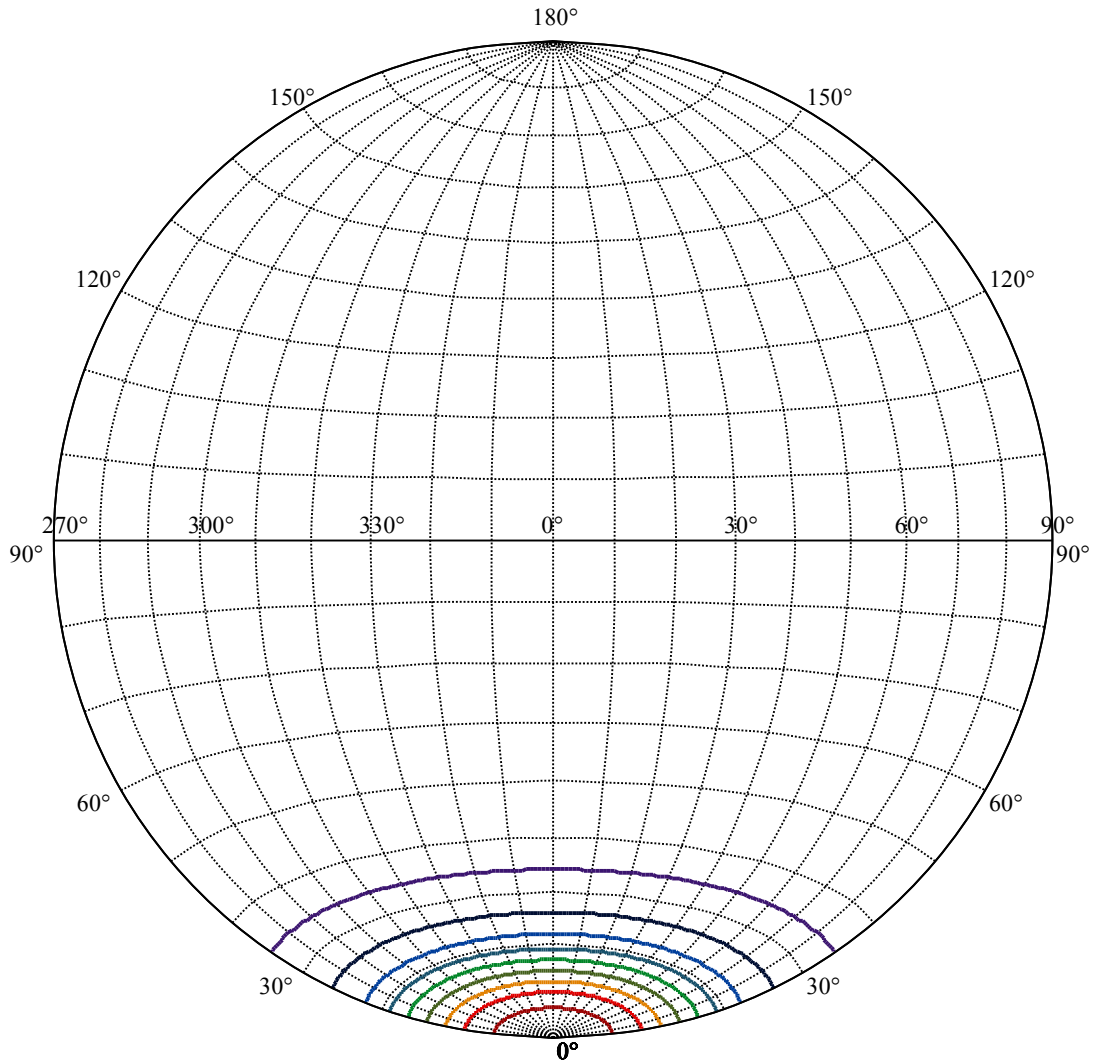
:C90/270Left:34.3 Right:34.3

Beam Angle(50%Imax):C0/180Left:16.9 Right:16.9

:C90/270Left:16.9 Right:16.9



(10%Imax) 352.392	—
(20%Imax) 704.784	—
(30%Imax) 1057.18	—
(40%Imax) 1409.57	—
(50%Imax) 1761.96	—
(60%Imax) 2114.35	—
(70%Imax) 2466.75	—
(80%Imax) 2819.14	—
(90%Imax) 3171.53	—



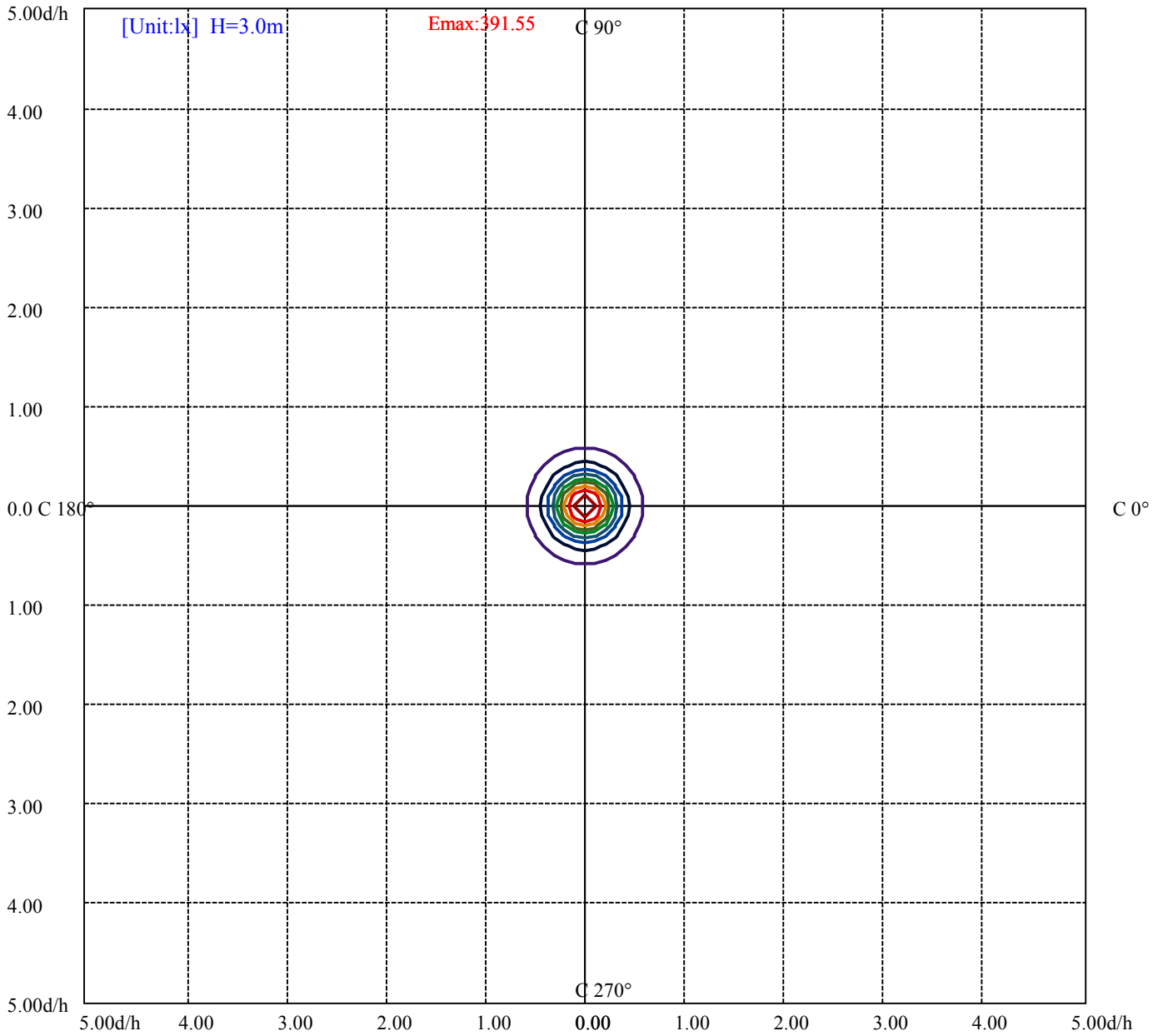
House

[Unit:cd]

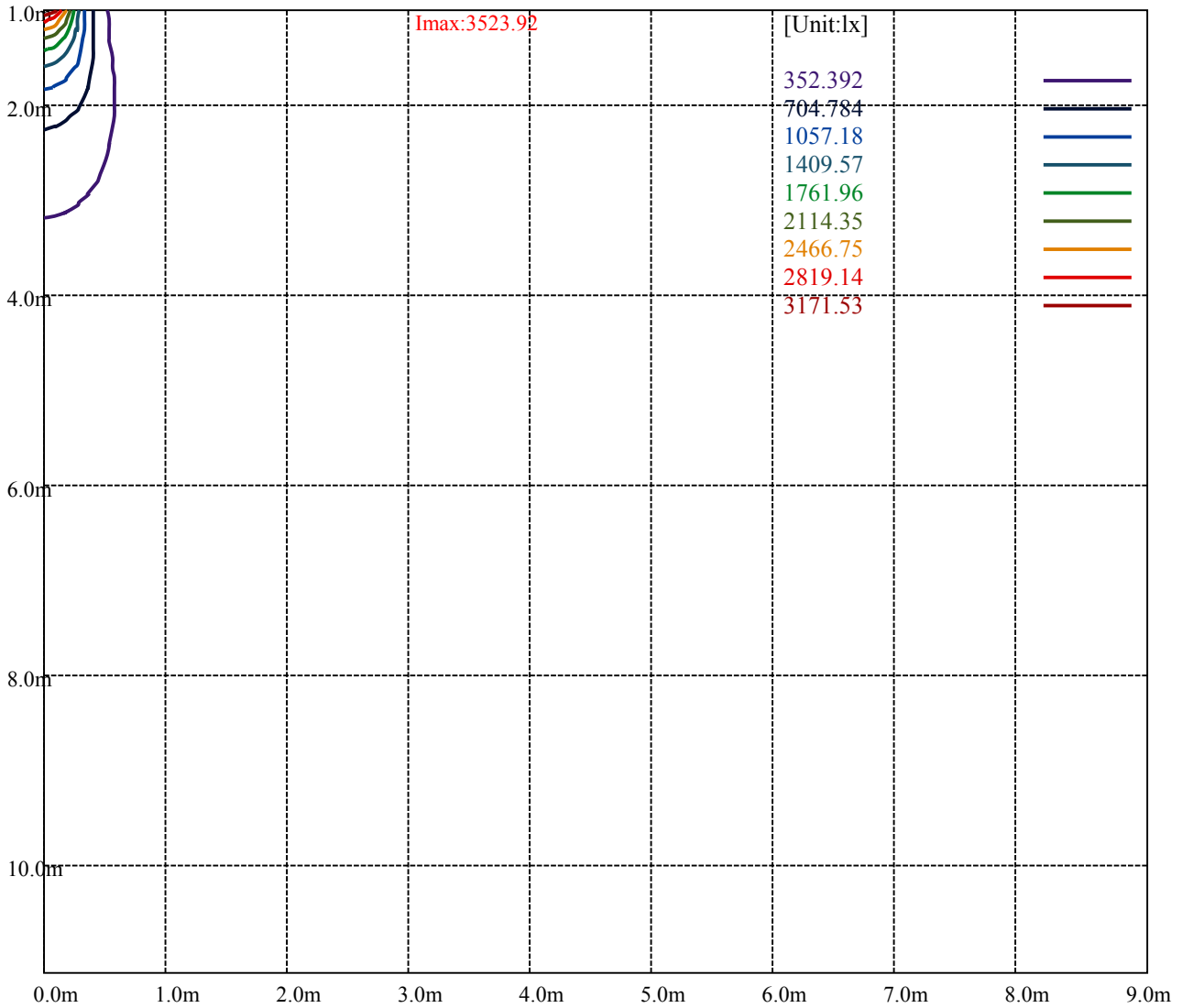
Road

I_{max}:3523.92

(10%I _{max}) 352.392	—
(20%I _{max}) 704.784	—
(30%I _{max}) 1057.18	—
(40%I _{max}) 1409.57	—
(50%I _{max}) 1761.96	—
(60%I _{max}) 2114.35	—
(70%I _{max}) 2466.75	—
(80%I _{max}) 2819.14	—
(90%I _{max}) 3171.53	—



(10%Emax) 39.15467	—
(20%Emax) 78.30923	—
(30%Emax) 117.4644	—
(40%Emax) 156.6189	—
(50%Emax) 195.7733	—
(60%Emax) 234.9278	—
(70%Emax) 274.0822	—
(80%Emax) 313.2367	—
(90%Emax) 352.3922	—



Luminance Table

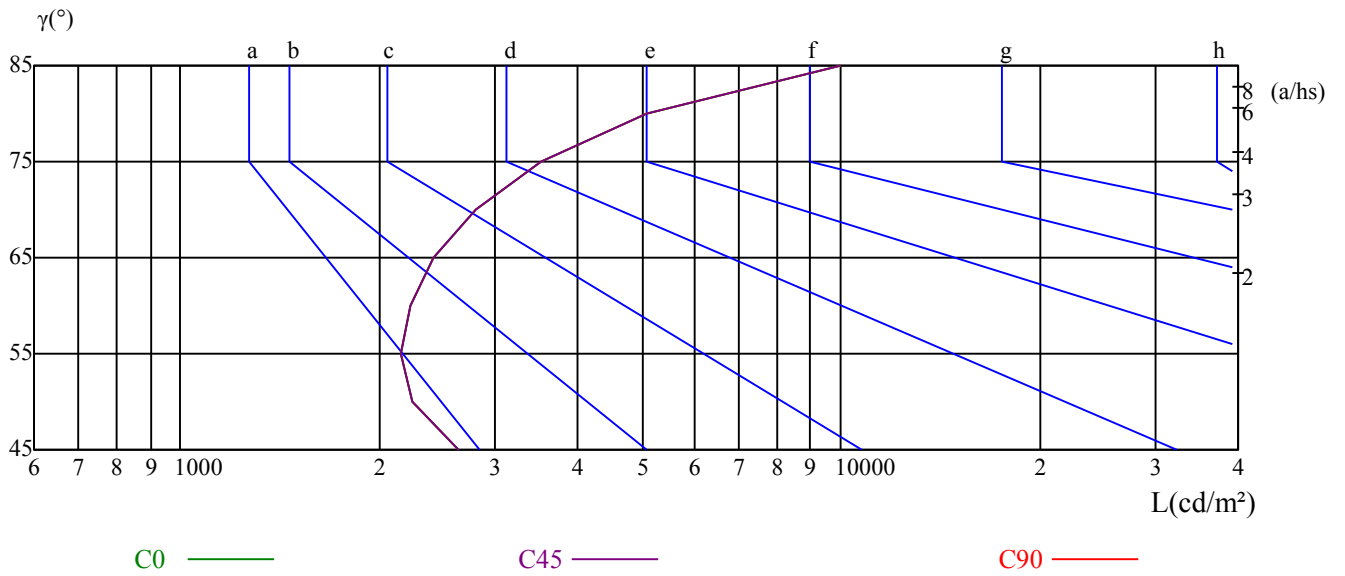
γ	45	50	55	60	65	70	75	80	85
C0	2630	2244	2160	2226	2417	2805	3519	5098	9998
C45	2630	2244	2160	2226	2417	2805	3519	5098	9998
C90	2630	2244	2160	2226	2417	2805	3519	5098	9998

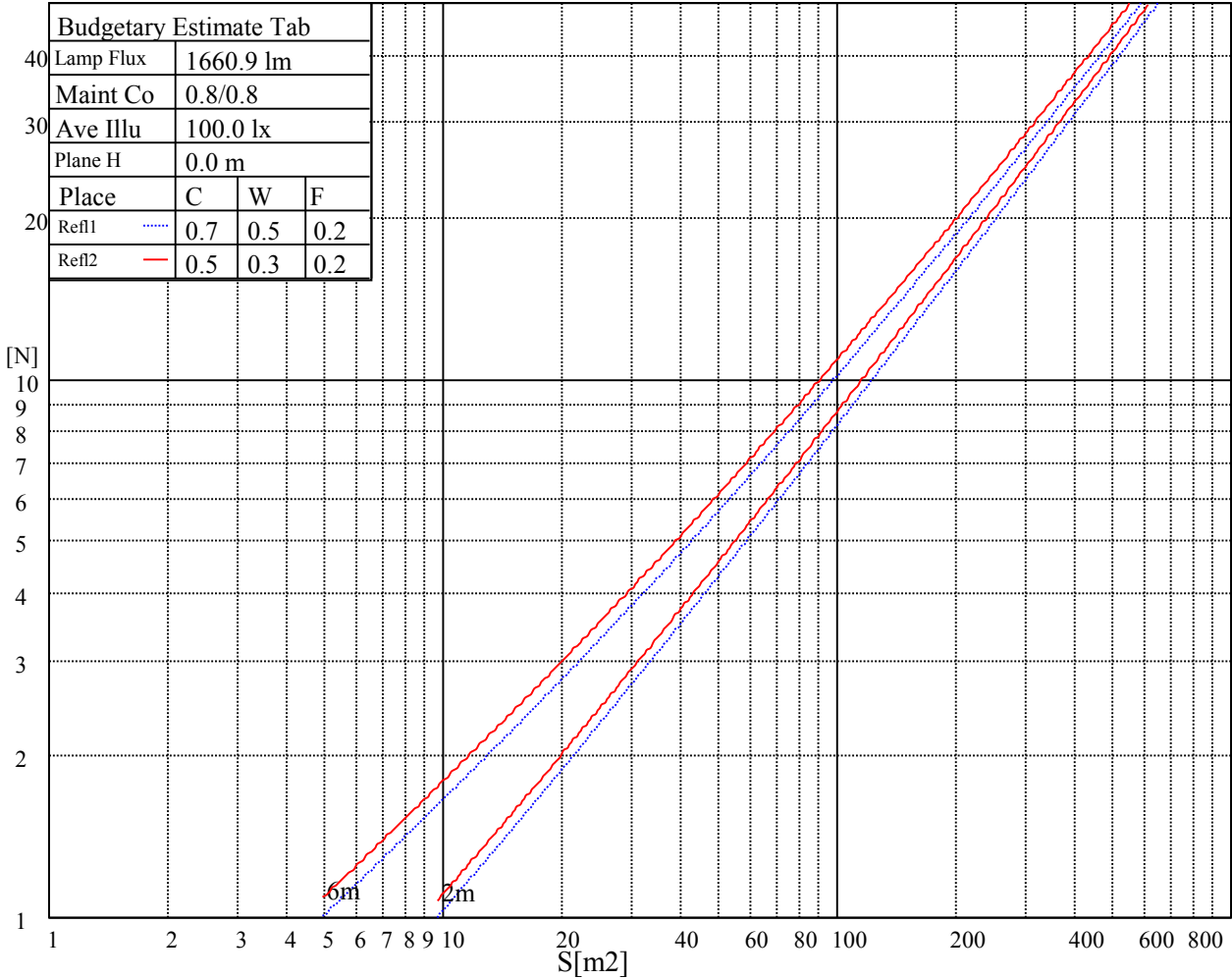
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2417	2417	2417	3519	3519	3519	9998	9998	9998

Glare Table

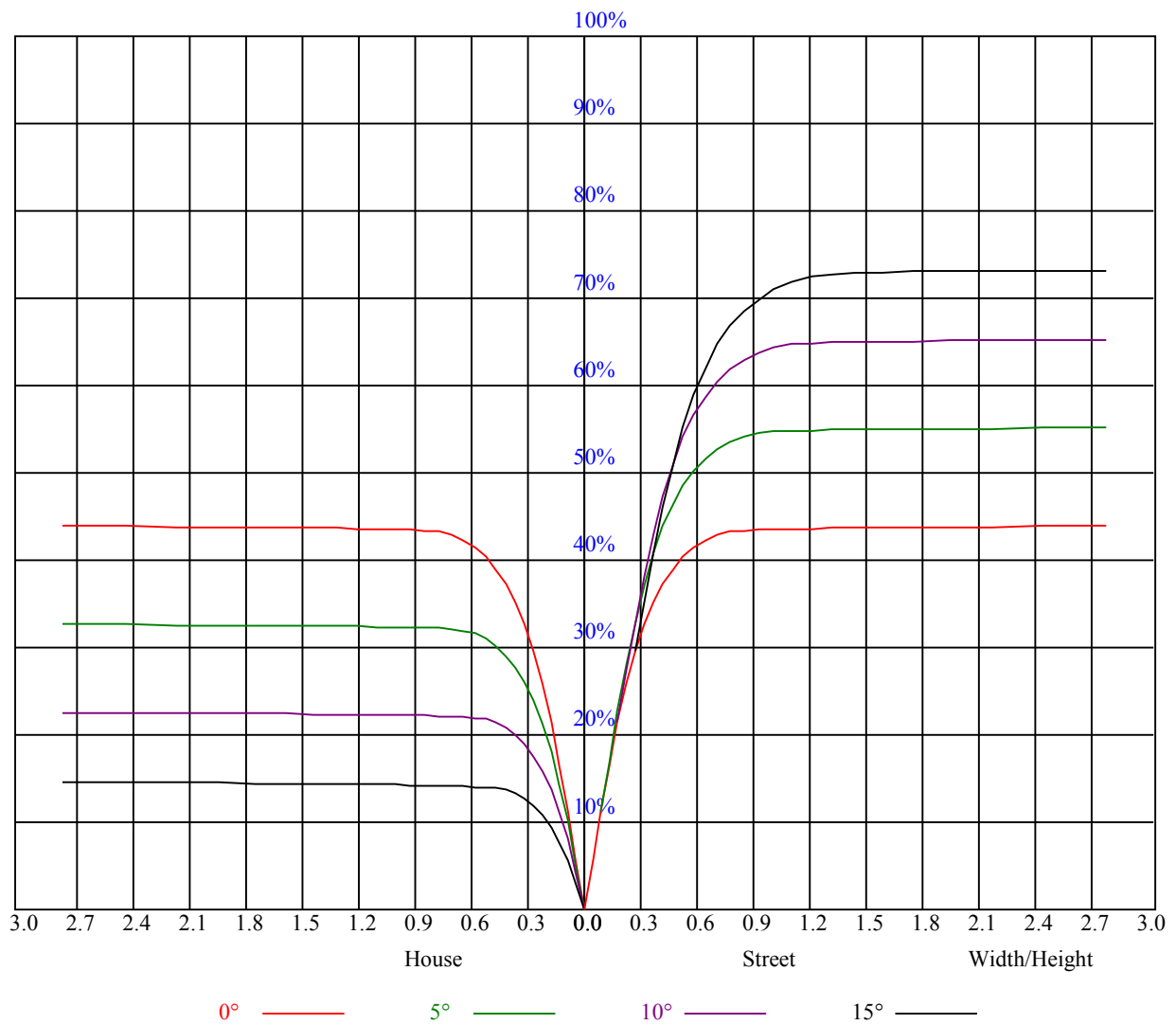
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.97	0.96	0.97	0.96	0.94	0.94	0.92	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.84
2	0.94	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.85	0.81	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.65
7	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
8	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	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	0.65	0.61	0.59	0.64	0.61	0.58	0.57
10	0.64	0.59	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	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	3530.25	3381.75	2935.13	2124.00	1365.75	767.81	555.19	350.44	38.14
45.0	3517.31	3447.56	3079.13	2449.69	1638.00	913.50	604.13	454.50	119.81
90.0	3526.31	3380.63	2949.75	2211.19	1290.94	814.67	569.87	364.78	63.96
135.0	3521.81	3410.44	3026.81	2275.31	1454.63	854.44	589.50	398.81	84.04
180.0	3530.25	3363.75	2838.94	1924.88	1114.14	709.99	537.53	298.86	25.14
225.0	3517.31	3242.81	2612.81	1710.56	1016.94	627.81	507.04	184.16	16.93
270.0	3526.31	3310.31	2786.63	1954.13	1168.31	679.50	536.63	284.06	19.58
315.0	3521.81	3299.06	2677.50	1877.63	1114.82	663.98	529.54	230.06	19.97
360.0	3530.25	3381.75	2935.13	2124.00	1365.75	767.81	555.19	350.44	38.14
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	11.36	8.89	7.54	6.75	6.19	5.85	5.51	5.40	5.29
45.0	13.44	9.17	7.76	6.92	6.36	5.96	5.63	5.46	5.34
90.0	11.98	8.94	7.59	6.86	6.30	5.85	5.57	5.40	5.34
135.0	13.28	9.68	8.27	7.20	6.47	6.02	5.68	5.40	5.29
180.0	10.35	8.61	7.43	6.69	6.19	5.79	5.51	5.34	5.29
225.0	9.39	7.82	7.03	6.41	5.96	5.68	5.46	5.34	5.29
270.0	10.07	8.33	7.20	6.58	6.08	5.74	5.46	5.40	5.29
315.0	10.63	8.78	7.48	6.75	6.19	5.79	5.51	5.34	5.29
360.0	11.36	8.89	7.54	6.75	6.19	5.85	5.51	5.40	5.29
C/ γ (°)	90.0								
0.0	5.23								
45.0	5.29								
90.0	5.23								
135.0	5.23								
180.0	5.29								
225.0	5.29								
270.0	5.23								
315.0	5.23								
360.0	5.23								