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Nata

LumCAT: 2-1537-A	
Luminaire: 92.76.323.00	
Report No: NT2017031001	Voltage(V): 36.5000
Test No: GC2017031001	Current(A): 0.6000
LampCAT: PHILIPS SLM 1205 G6	Power (W): 21.9000
Lamp flux(lm): 2757.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2516.12
Efficiency(%): 91.26%
Lumens(lm)/Power(W): 114.89
Central intensity(cd): 5750.503
Maximum intensity(cd): 5750.503
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.2
[C90/270]Total=34.2
Field angle(10%Imax): [C0/180]Total=71.1
[C90/270]Total=71.1
Maximum s/h(1/2): C0_180=0.56 C90_270=0.56
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.42%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.500%

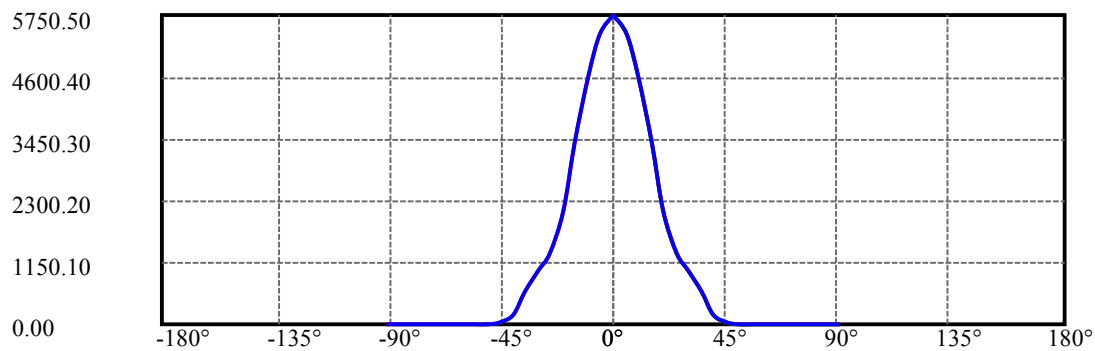
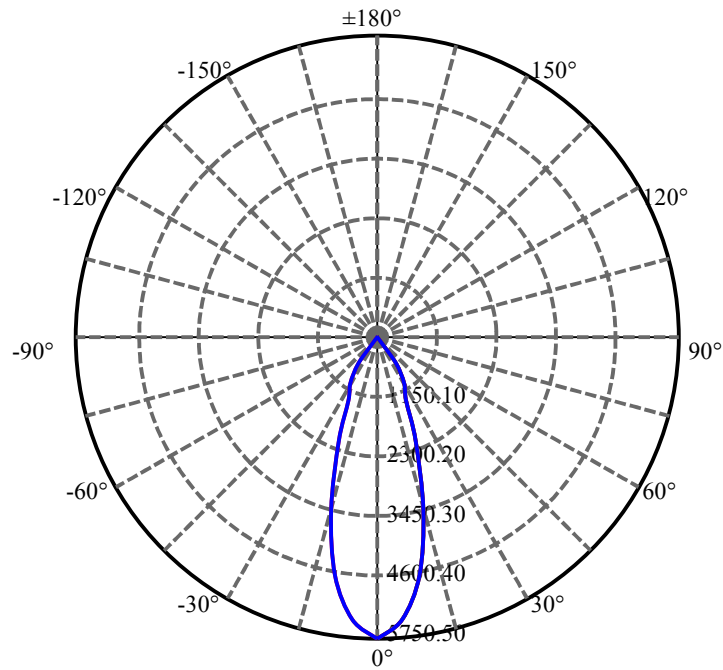
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5750.503	34.389	34.389	1.247%	1.367%
5.0	5403.579	258.147	292.536	9.363%	11.626%
10.0	4603.541	438.179	730.715	15.893%	29.041%
15.0	3409.368	483.682	1214.397	17.544%	48.265%
20.0	2123.801	398.157	1612.554	14.442%	64.089%
25.0	1326.171	307.211	1919.765	11.143%	76.299%
30.0	997.237	273.311	2193.077	9.913%	87.161%
35.0	621.394	195.365	2388.442	7.086%	94.925%
40.0	195.381	68.840	2457.282	2.497%	97.661%
45.0	24.307	9.421	2466.704	.342%	98.036%
50.0	14.521	6.097	2472.801	.221%	98.278%
55.0	12.986	5.831	2478.632	.211%	98.510%
60.0	12.167	5.776	2484.408	.209%	98.739%
65.0	11.589	5.757	2490.165	.209%	98.968%
70.0	11.238	5.789	2495.954	.210%	99.198%
75.0	10.998	5.823	2501.777	.211%	99.430%
80.0	10.764	5.810	2507.587	.211%	99.661%
85.0	10.502	5.735	2513.322	.208%	99.889%
90.0	10.227	2.803	2516.124	.102%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2193.08	79.55%	87.16%
0-40	2457.28	89.13%	97.66%
0-60	2484.41	90.11%	98.74%
0-90	2513.32	91.16%	99.89%
0-120	2513.32	91.16%	99.89%
0-180	2516.12	91.26%	100.00%
60-90	34.69	1.26%	1.38%
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%
0-26.70	2012.90	73.01%	80.00%

ZONAL LUMEN SUMMARY

0-10	730.72
10-20	881.84
20-30	580.52
30-40	264.21
40-50	15.52
50-60	11.61
60-70	11.55
70-80	11.63
80-90	5.73
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

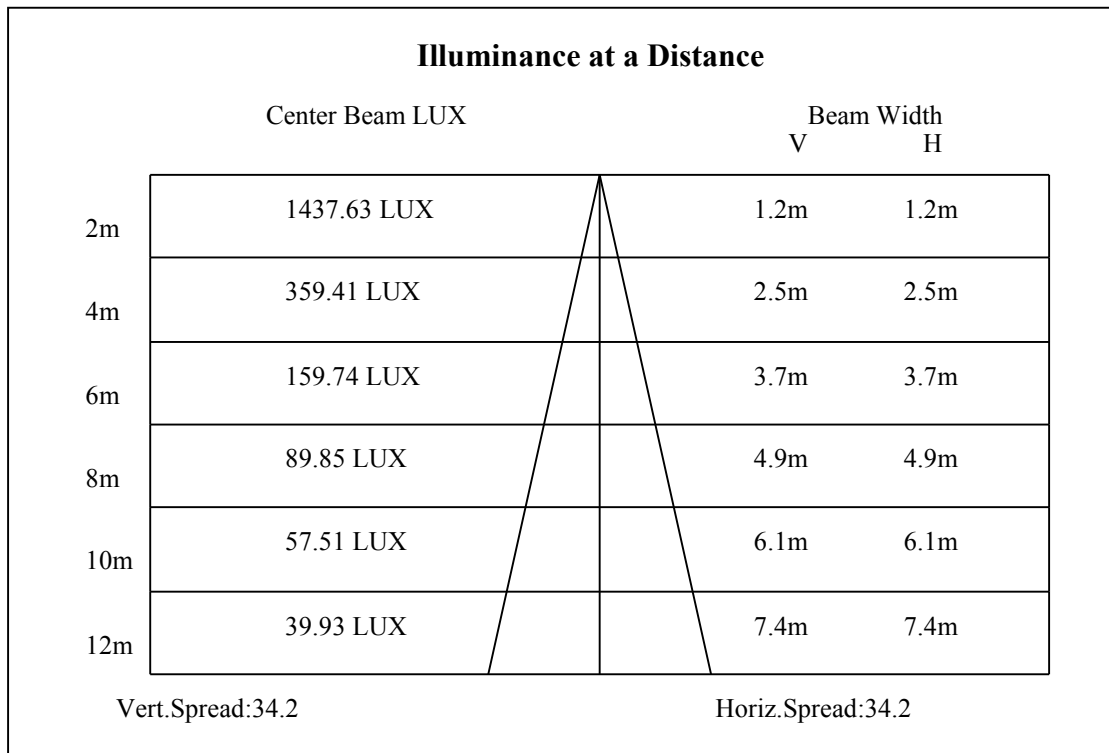
C0(Max): —————C0/C180: —————C90/C270: —————

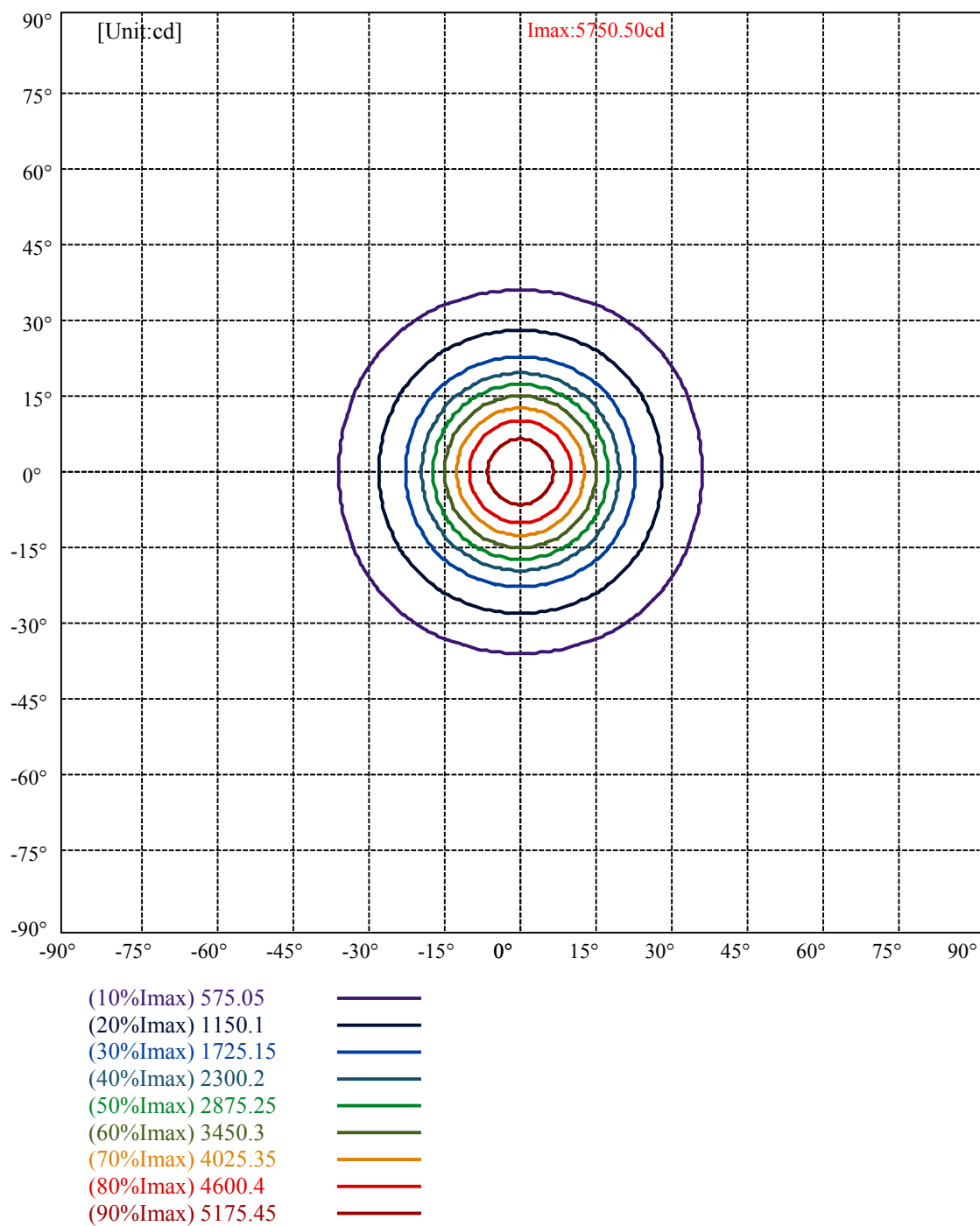
Field angle(10%Imax):C0/180Left:35.5 Right:35.5

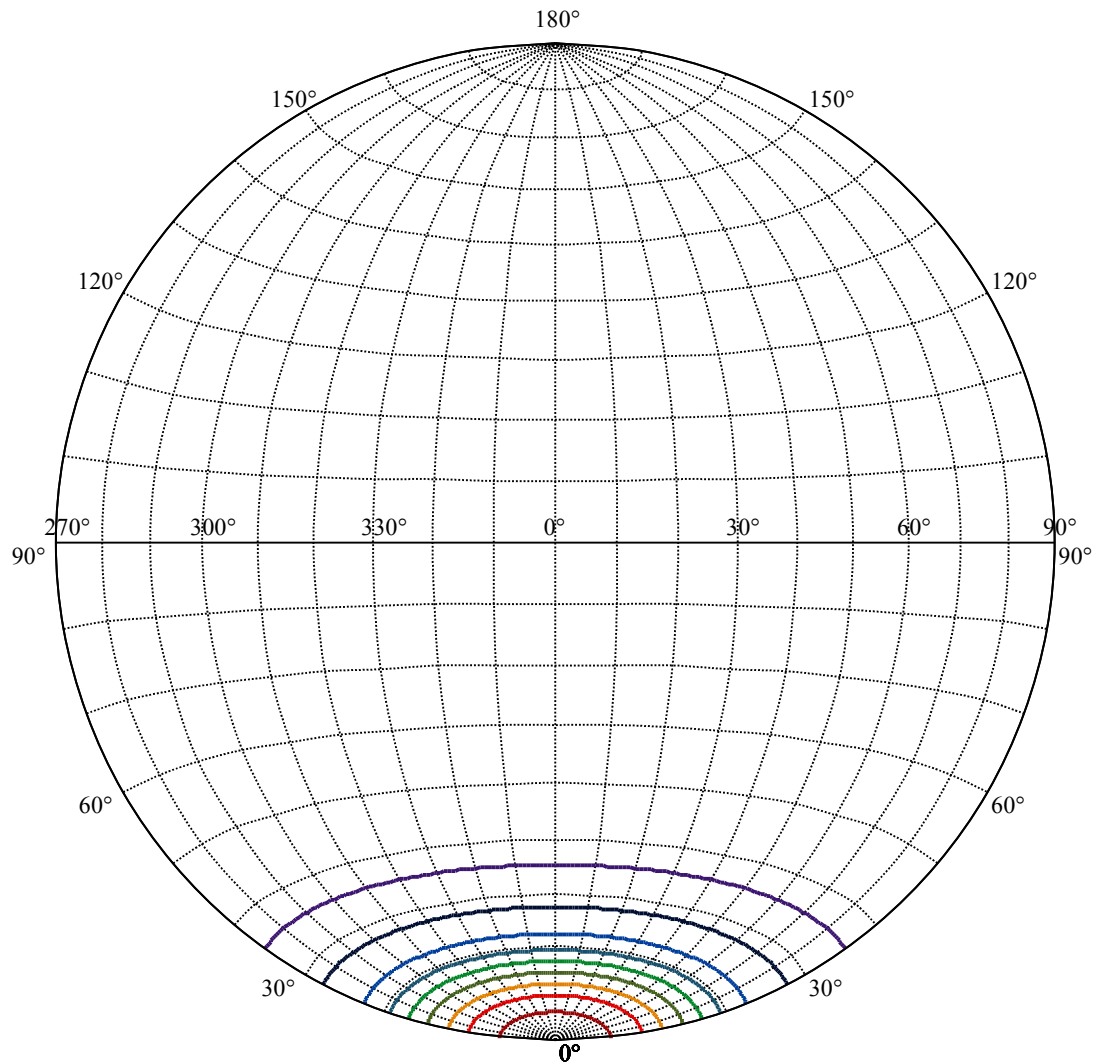
:C90/270Left:35.5 Right:35.5

Beam Angle(50%Imax):C0/180Left:17.1 Right:17.1

:C90/270Left:17.1 Right:17.1







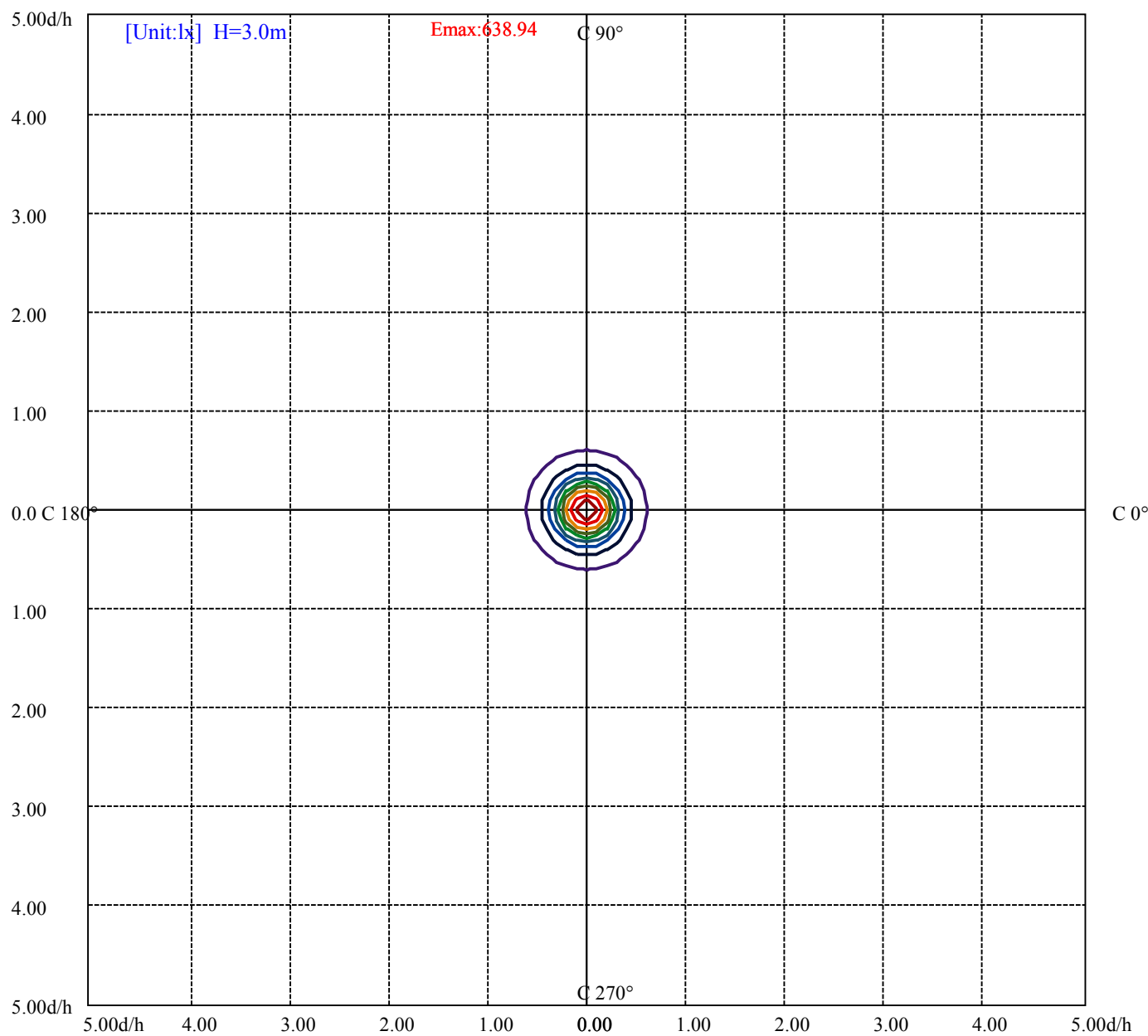
House

[Unit:cd]

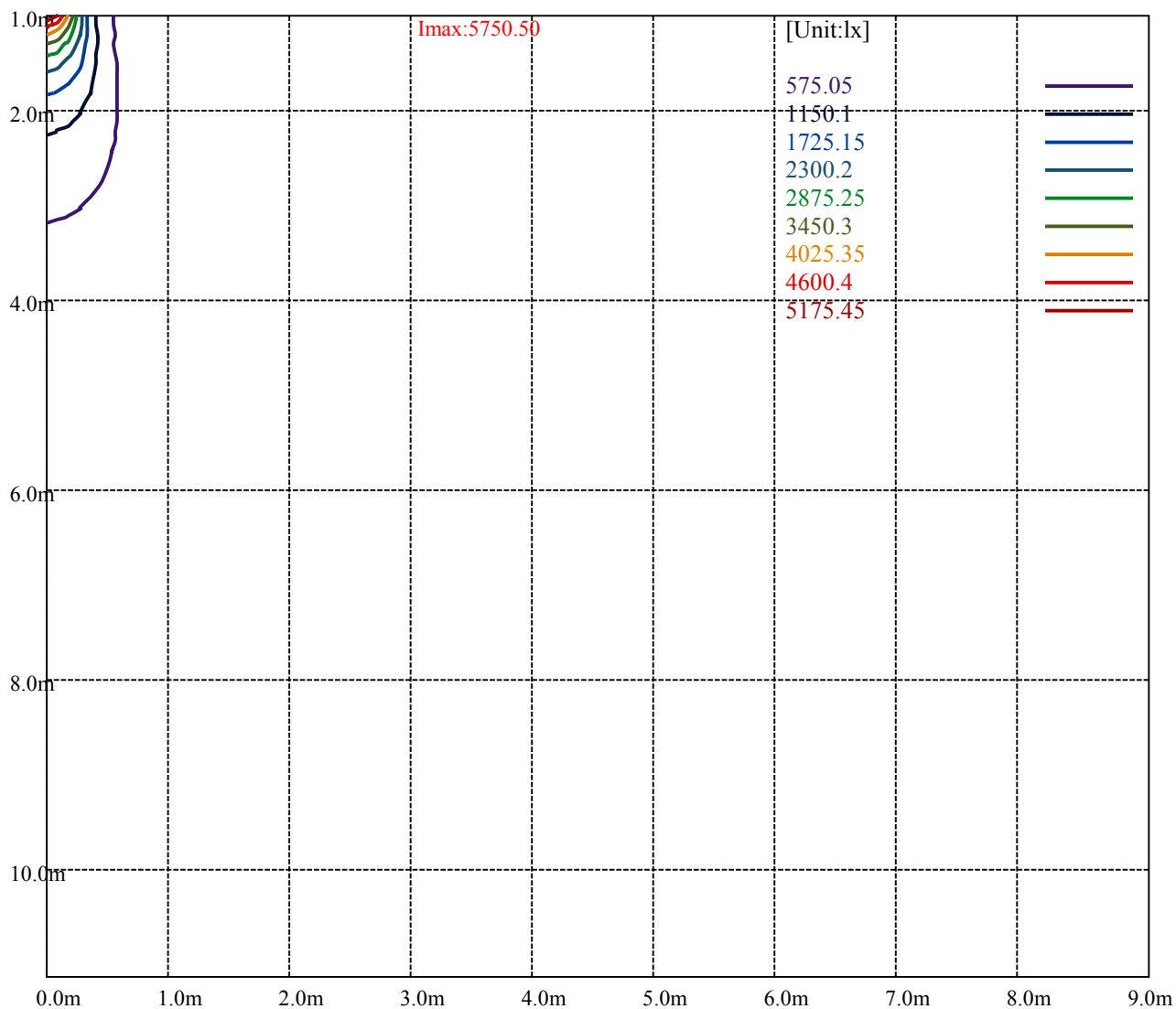
Road

Imax:5750.50

(10%Imax)	575.05	—
(20%Imax)	1150.1	—
(30%Imax)	1725.15	—
(40%Imax)	2300.2	—
(50%Imax)	2875.25	—
(60%Imax)	3450.3	—
(70%Imax)	4025.35	—
(80%Imax)	4600.4	—
(90%Imax)	5175.45	—



(10%E _{max}) 63.89433	—
(20%E _{max}) 127.7889	—
(30%E _{max}) 191.6833	—
(40%E _{max}) 255.5778	—
(50%E _{max}) 319.4722	—
(60%E _{max}) 383.3667	—
(70%E _{max}) 447.26	—
(80%E _{max}) 511.1544	—
(90%E _{max}) 575.0489	—



Luminance Table

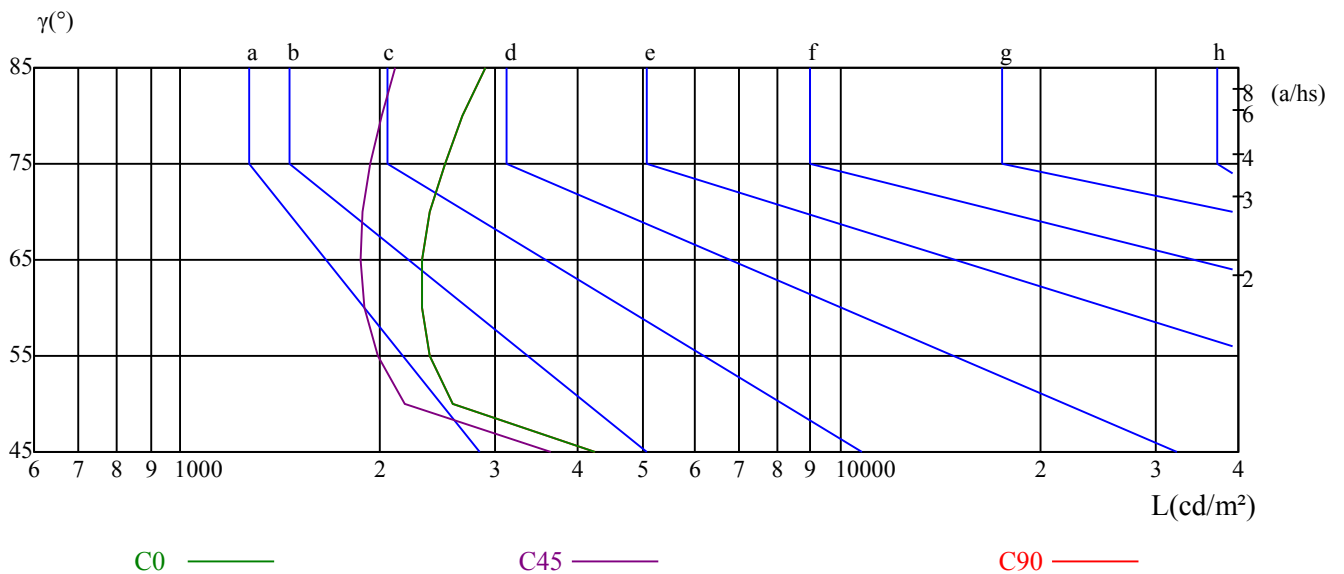
γ	45	50	55	60	65	70	75	80	85
C0	4233	2586	2384	2323	2323	2390	2512	2676	2889
C45	3636	2188	1985	1903	1870	1887	1941	2017	2116
C90	4233	2586	2384	2323	2323	2390	2512	2676	2889

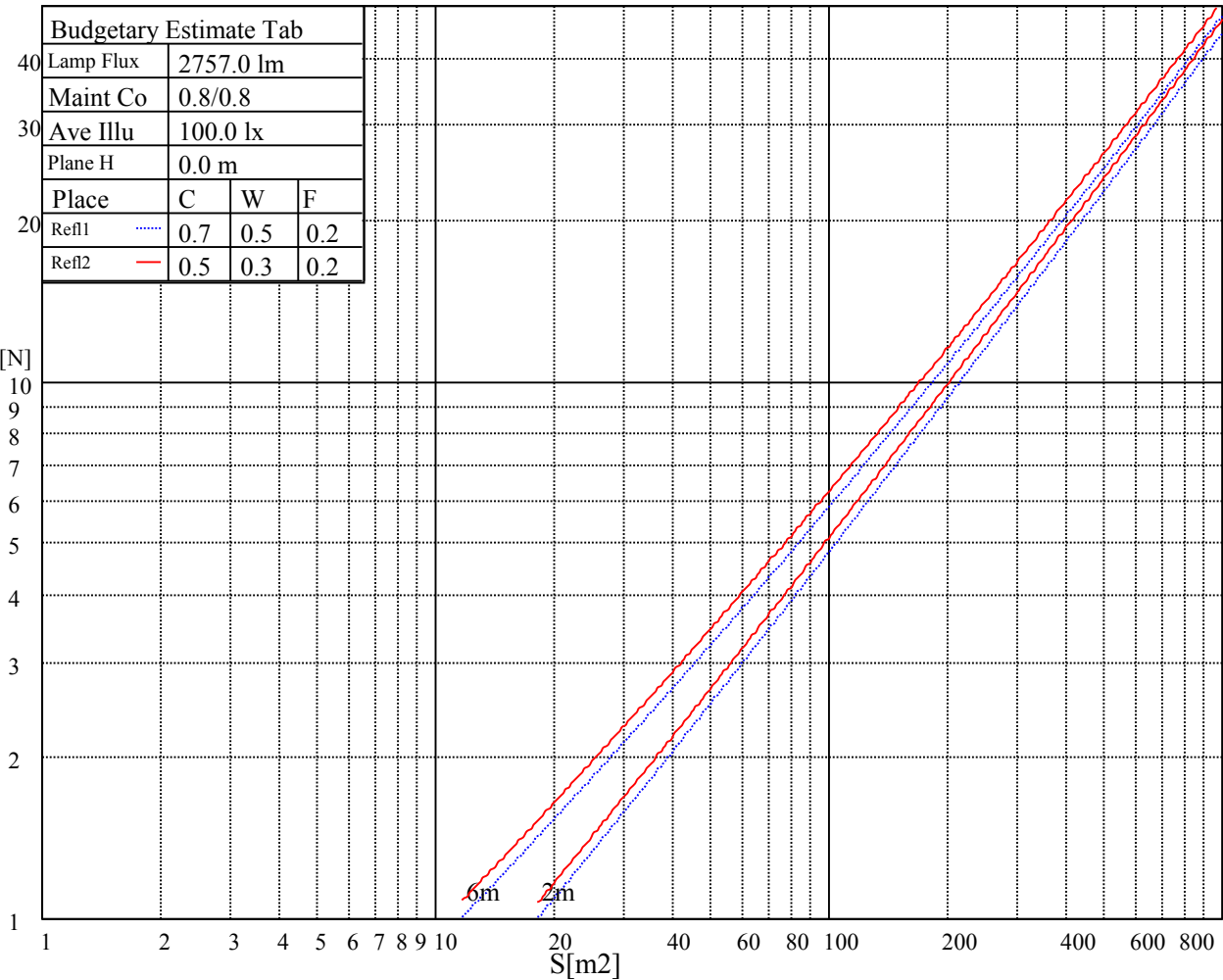
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5596	5596	5596	8672	8672	8672	24591	24591	24591

Glare Table

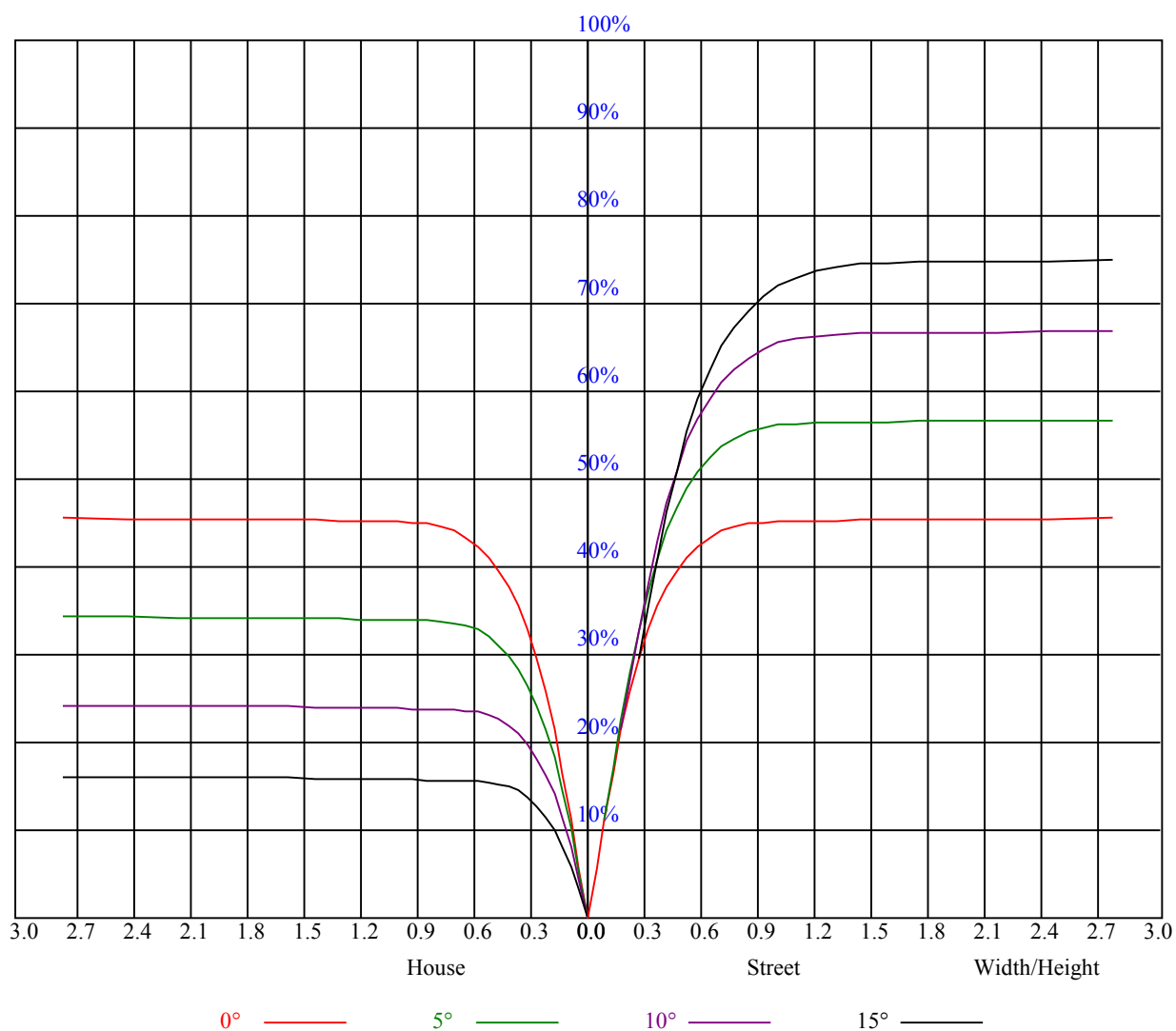
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	1.10	1.10	1.10	1.07	1.07	1.07	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	0.99	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.88	0.87	0.86
2	0.96	0.93	0.90	0.95	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
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	0.71
6	0.79	0.75	0.71	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	0.71	0.68	0.76	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.65	0.62	0.61
10	0.68	0.64	0.61	0.68	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59



Intensity data(cd)										Appendix Page: 14 Total:14	
C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	5752.84	5575.01	4906.63	3779.62	2397.71	1484.87	1090.67	755.37	278.59		
45.0	5727.52	5561.25	4860.93	3795.59	2376.23	1478.81	1074.70	723.99	302.26		
90.0	5750.09	5319.55	4508.57	3221.35	2022.22	1303.74	953.08	560.31	102.96		
135.0	5771.56	5386.17	4592.80	3308.34	2087.19	1321.35	973.40	606.17	296.20		
180.0	5752.84	5218.80	4244.30	3035.81	1819.61	1086.26	932.05	481.08	57.26		
225.0	5727.52	5222.65	4311.47	3111.79	1875.77	1192.52	938.27	502.44	65.30		
270.0	5750.09	5502.34	4746.96	3626.01	2267.22	1400.08	1026.80	693.16	300.06		
315.0	5771.56	5442.88	4656.67	3396.43	2144.45	1341.72	988.92	648.62	160.43		
360.0	5752.84	5575.01	4906.63	3779.62	2397.71	1484.87	1090.67	755.37	278.59		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	28.02	15.80	13.43	12.44	11.73	11.29	10.90	10.68	10.46		
45.0	28.96	15.14	13.32	12.39	11.67	11.23	10.85	10.63	10.41		
90.0	21.69	14.04	12.72	12.00	11.45	11.07	10.68	10.52	10.35		
135.0	21.20	13.93	12.83	12.06	11.56	11.12	10.79	10.57	10.46		
180.0	20.32	13.71	12.61	12.00	11.67	11.62	12.28	11.95	11.01		
225.0	22.74	14.09	12.83	12.11	11.51	11.18	10.85	10.63	10.46		
270.0	26.48	15.03	13.16	12.22	11.56	11.18	10.85	10.57	10.35		
315.0	25.05	14.42	12.99	12.11	11.56	11.23	10.79	10.57	10.52		
360.0	28.02	15.80	13.43	12.44	11.73	11.29	10.90	10.68	10.46		
C/ γ (°)	90.0										
0.0	10.30										
45.0	10.19										
90.0	10.19										
135.0	10.19										
180.0	10.24										
225.0	10.24										
270.0	10.24										
315.0	10.24										
360.0	10.30										