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Nata

LumCAT: 2-1538-A	
Luminaire: 92.76.323.00	
Report No: NT2017031102	Voltage(V): 36.5000
Test No: GC2017031102	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): 2494.52
Efficiency(%): 90.48%
Lumens(lm)/Power(W): 113.90
Central intensity(cd): 2699.691
Maximum intensity(cd): 2699.691
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=62.8
 [C90/270]Total=62.8
Field angle(10%Imax): [C0/180]Total=82.7
 [C90/270]Total=82.7
Maximum s/h(1/2): C0_180=0.97 C90_270=0.97
Maximum s/h(1/4): C0_180=0.93 C90_270=0.93
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.98%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.198%

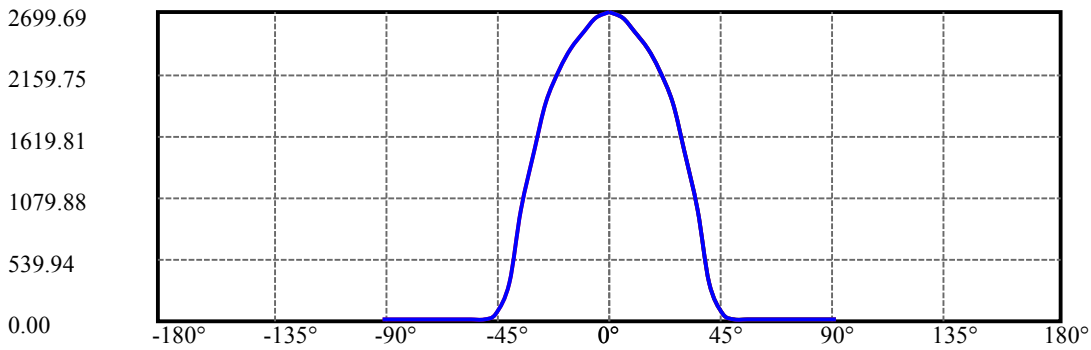
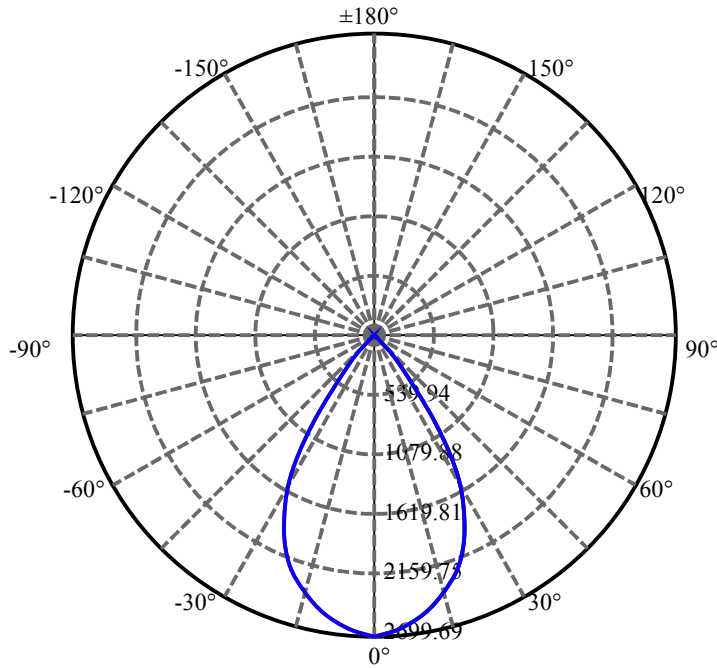
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2699.691	16.145	16.145	.586%	.647%
5.0	2648.488	126.527	142.672	4.589%	5.719%
10.0	2534.865	241.276	383.948	8.751%	15.392%
15.0	2379.125	337.523	721.471	12.242%	28.922%
20.0	2190.212	410.608	1132.079	14.893%	45.383%
25.0	1913.554	443.280	1575.359	16.078%	63.153%
30.0	1498.910	410.804	1986.163	14.900%	79.621%
35.0	969.867	304.925	2291.088	11.060%	91.845%
40.0	341.480	120.316	2411.404	4.364%	96.668%
45.0	73.652	28.547	2439.951	1.035%	97.813%
50.0	24.535	10.302	2450.253	.374%	98.226%
55.0	15.306	6.872	2457.125	.249%	98.501%
60.0	12.574	5.969	2463.094	.216%	98.740%
65.0	11.699	5.812	2468.906	.211%	98.973%
70.0	11.280	5.810	2474.716	.211%	99.206%
75.0	10.949	5.797	2480.513	.210%	99.439%
80.0	10.591	5.717	2486.23	.207%	99.668%
85.0	10.206	5.573	2491.803	.202%	99.891%
90.0	9.896	2.712	2494.516	.098%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1986.16	72.04%	79.62%
0-40	2411.40	87.46%	96.67%
0-60	2463.09	89.34%	98.74%
0-90	2491.80	90.38%	99.89%
0-120	2491.80	90.38%	99.89%
0-180	2494.52	90.48%	100.00%
60-90	34.68	1.26%	1.39%
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%
0-30.15	1995.61	72.38%	80.00%

ZONAL LUMEN SUMMARY

0-10	383.95
10-20	748.13
20-30	854.08
30-40	425.24
40-50	38.85
50-60	12.84
60-70	11.62
70-80	11.51
80-90	5.57
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: —————

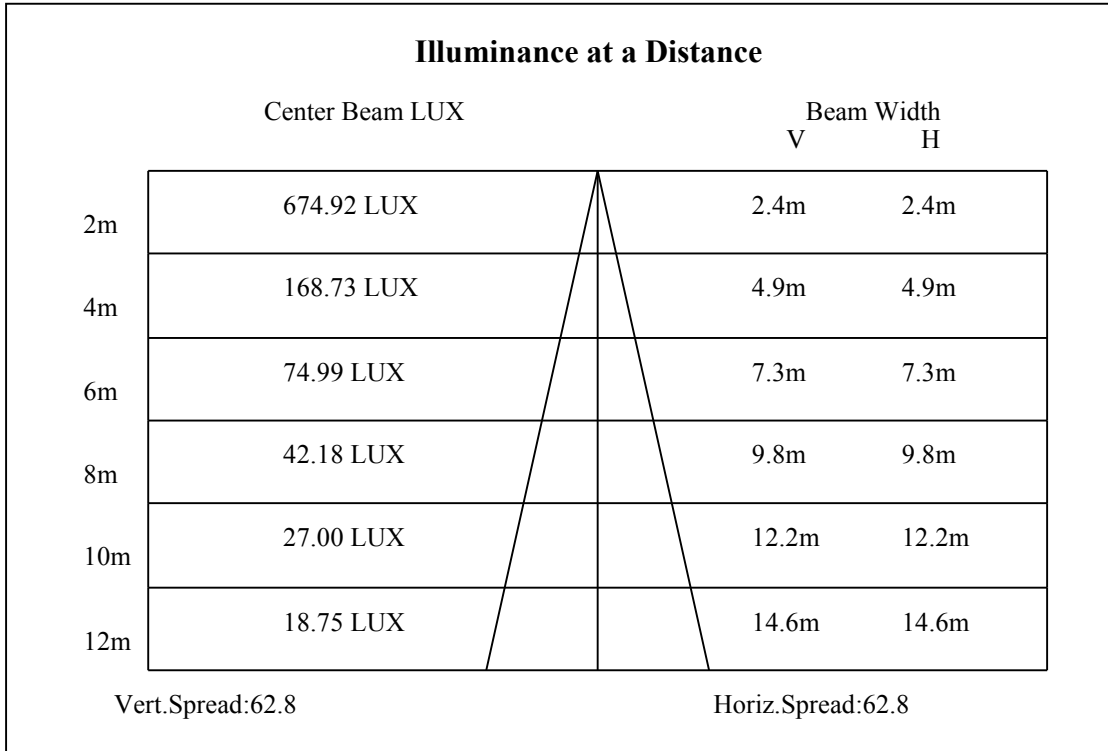
C90/C270: —————

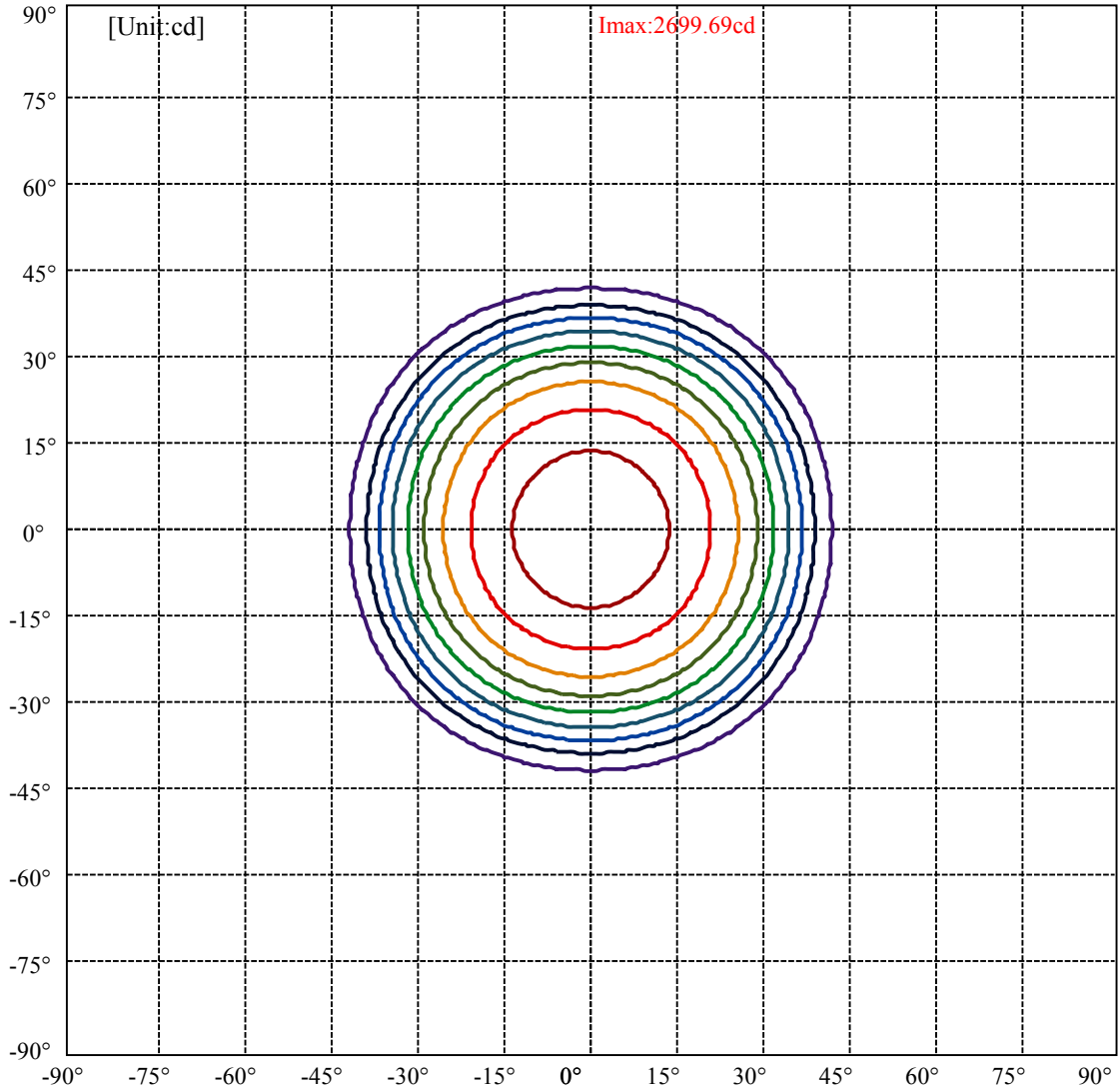
Field angle(10%Imax):C0/180Left:41.3 Right:41.3

:C90/270Left:41.3 Right:41.3

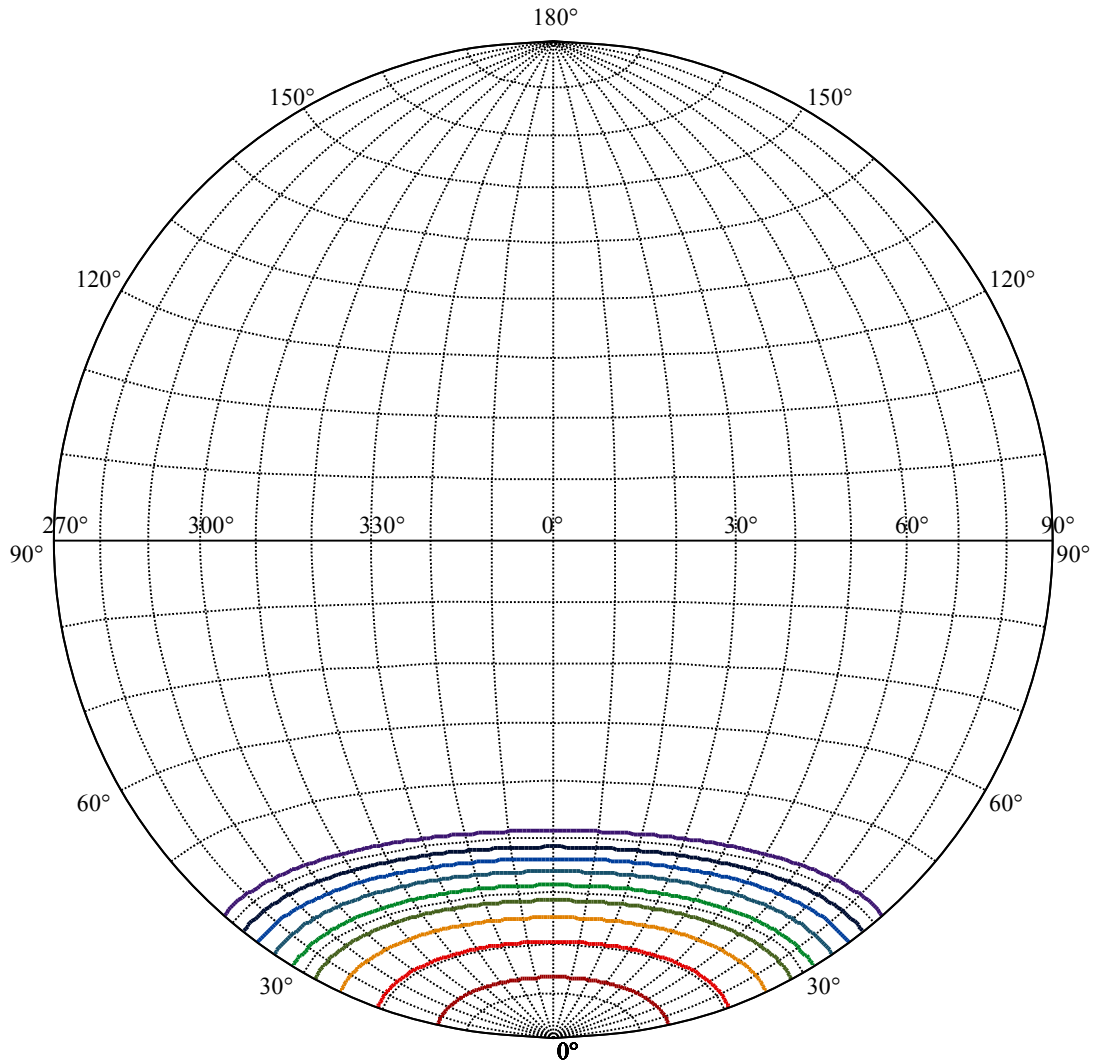
Beam Angle(50%Imax):C0/180Left:31.4 Right:31.4

:C90/270Left:31.4 Right:31.4





(10%Imax) 269.969	—
(20%Imax) 539.938	—
(30%Imax) 809.907	—
(40%Imax) 1079.88	—
(50%Imax) 1349.85	—
(60%Imax) 1619.81	—
(70%Imax) 1889.78	—
(80%Imax) 2159.75	—
(90%Imax) 2429.72	—



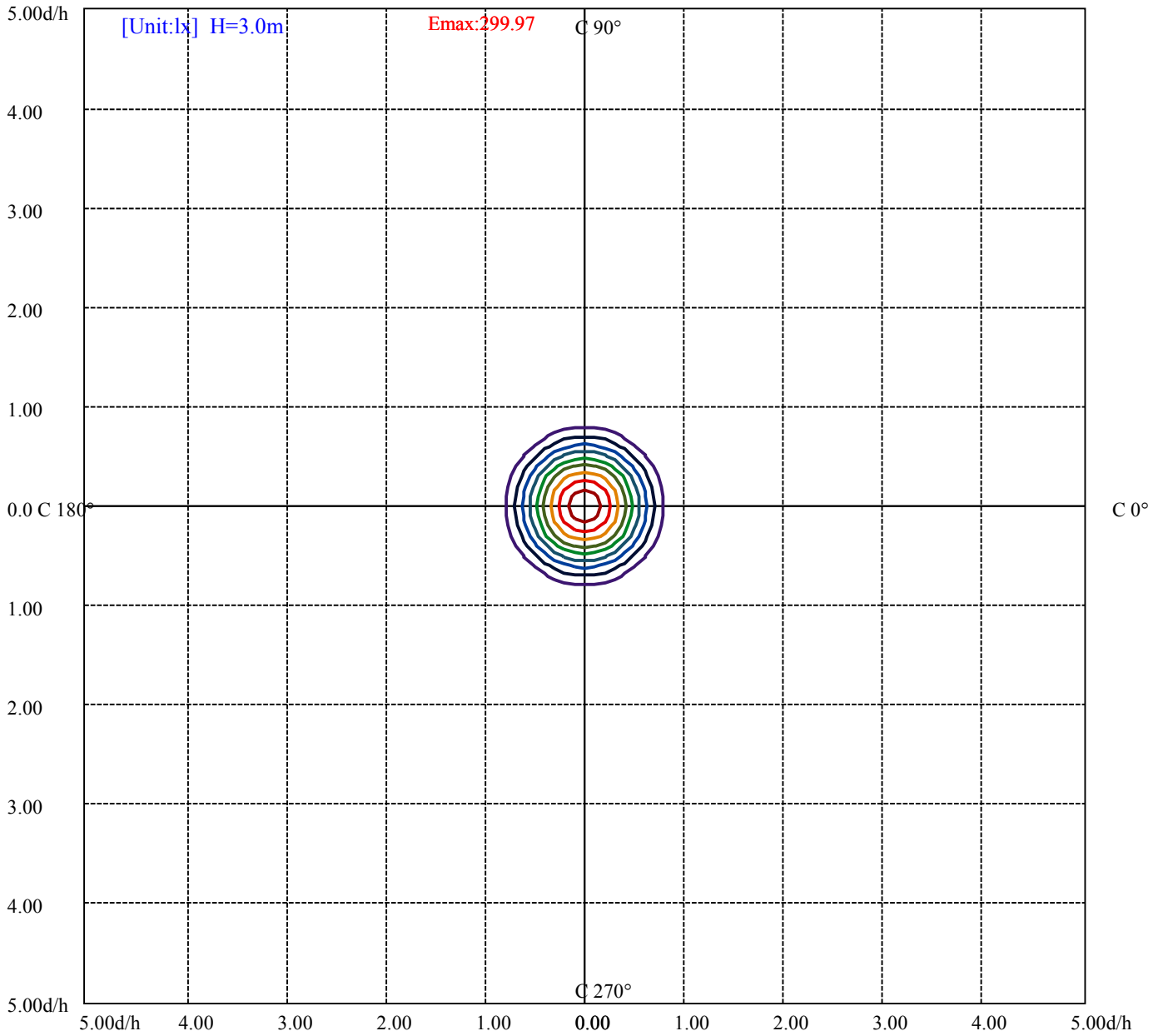
House

[Unit:cd]

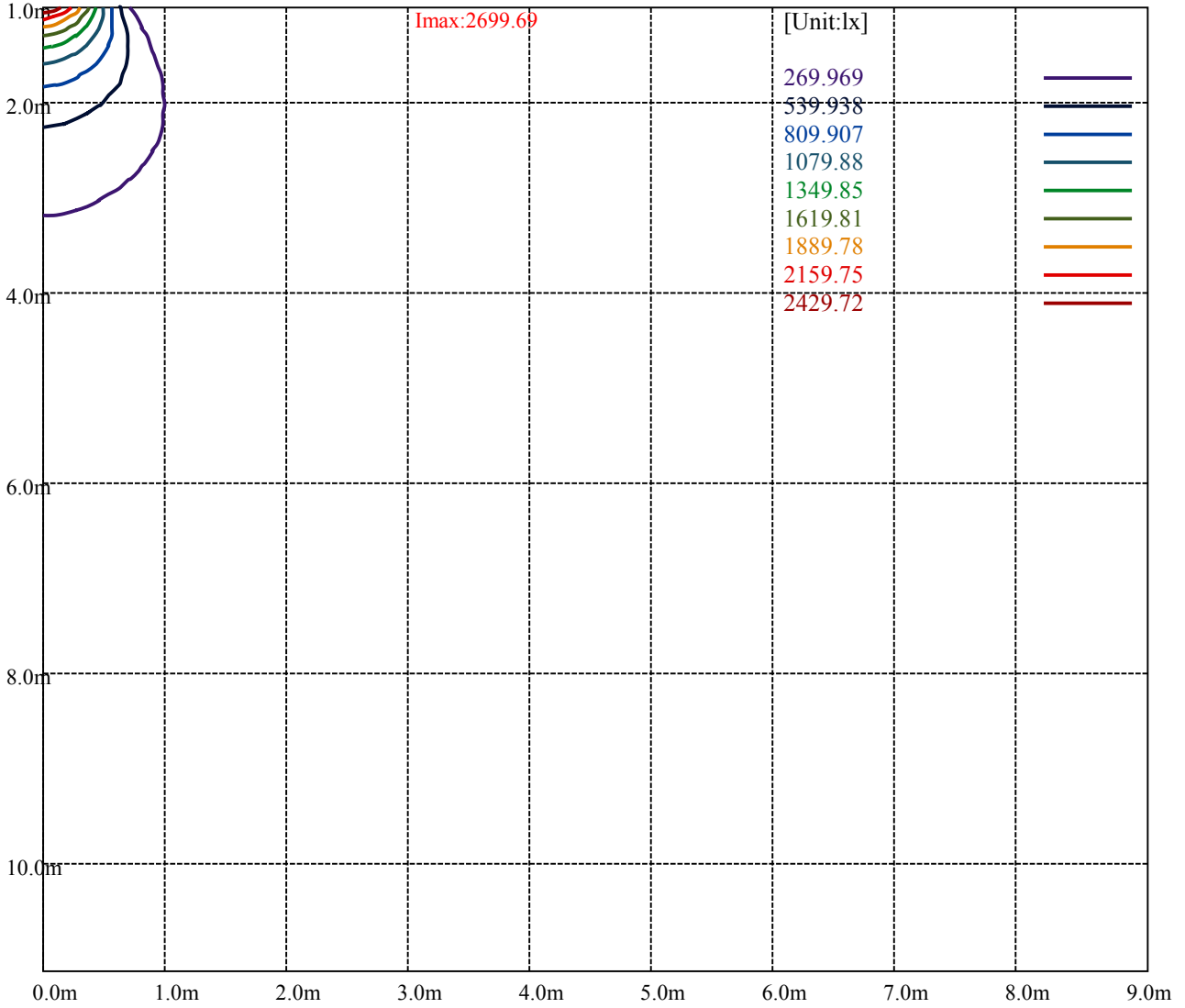
Road

Imax:2699.69

(10%Imax) 269.969	—
(20%Imax) 539.938	—
(30%Imax) 809.907	—
(40%Imax) 1079.88	—
(50%Imax) 1349.85	—
(60%Imax) 1619.81	—
(70%Imax) 1889.78	—
(80%Imax) 2159.75	—
(90%Imax) 2429.72	—



- (10%Emax) 29.99656
- (20%Emax) 59.99311
- (30%Emax) 89.98966
- (40%Emax) 119.9867
- (50%Emax) 149.9822
- (60%Emax) 179.9789
- (70%Emax) 209.9756
- (80%Emax) 239.9722
- (90%Emax) 269.9689



Luminance Table

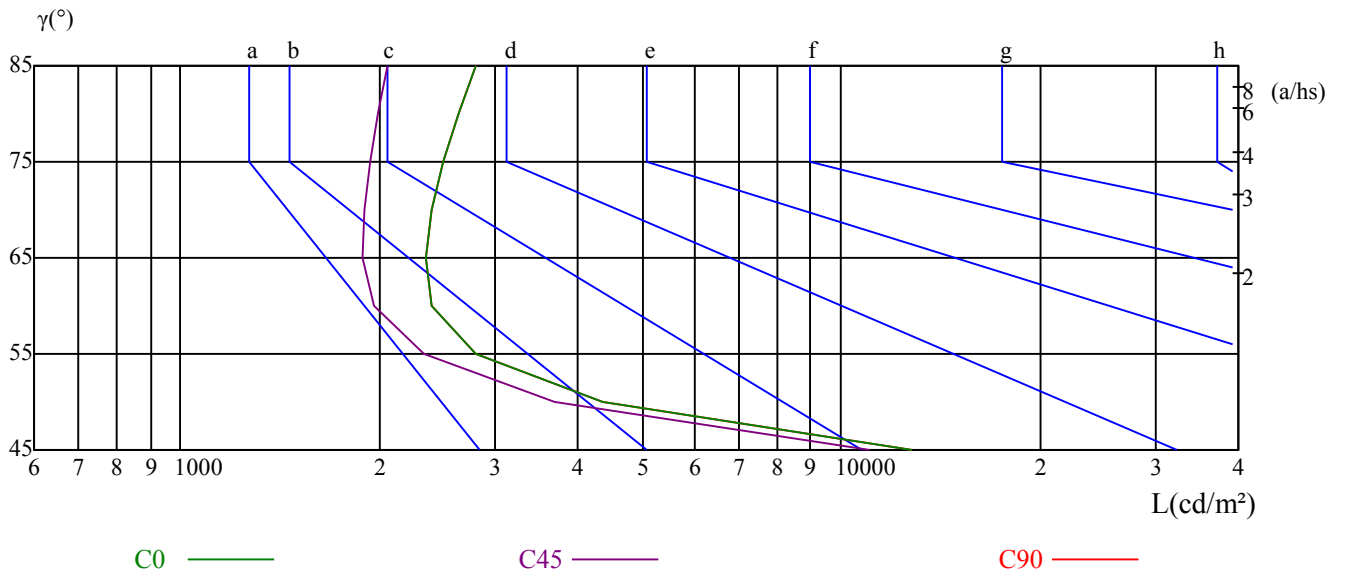
γ	45	50	55	60	65	70	75	80	85
C0	12827	4368	2809	2400	2345	2399	2501	2633	2808
C45	11018	3696	2340	1967	1888	1894	1932	1985	2056
C90	12827	4368	2809	2400	2345	2399	2501	2633	2808

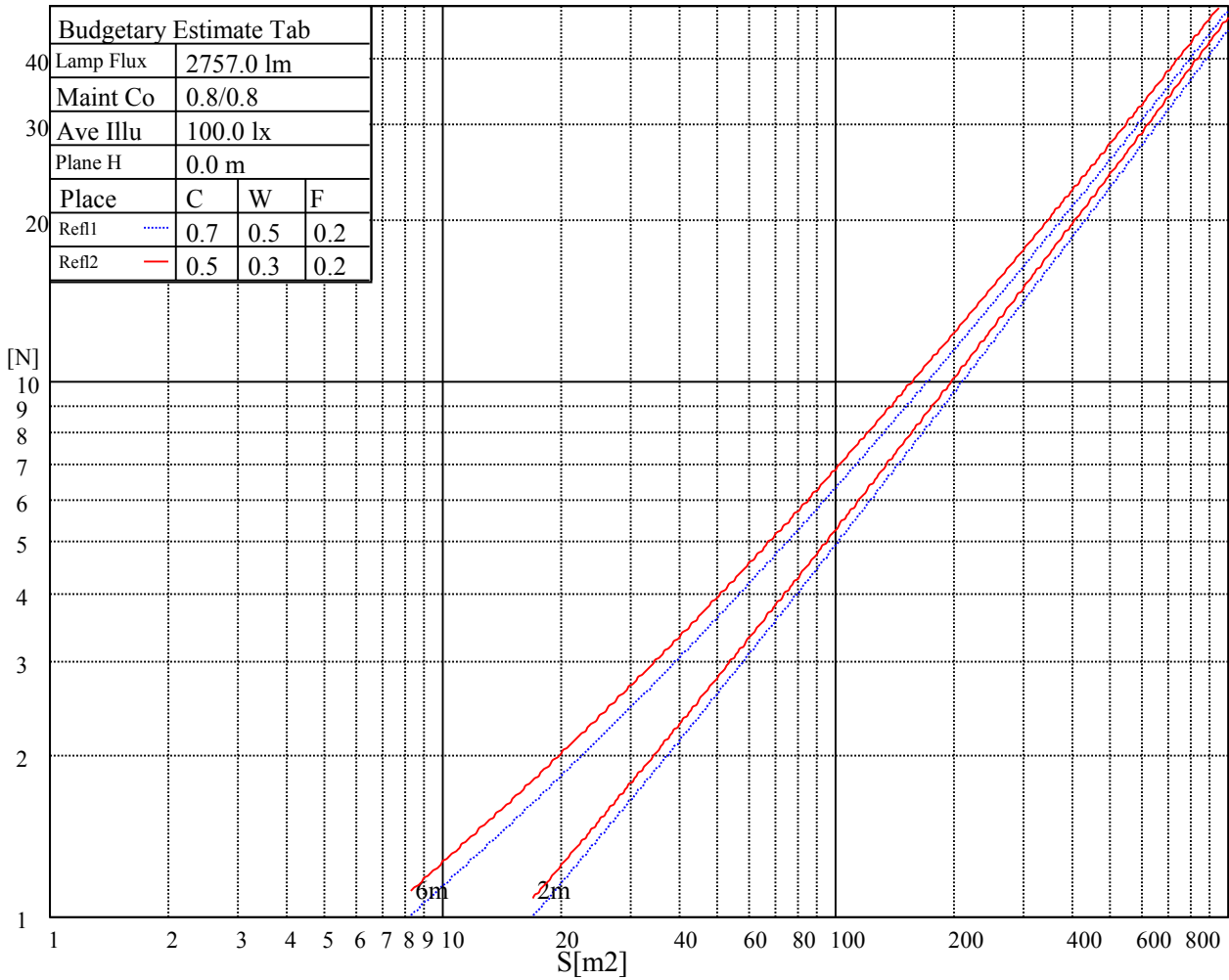
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5650	5650	5650	8634	8634	8634	23898	23898	23898

Glare Table

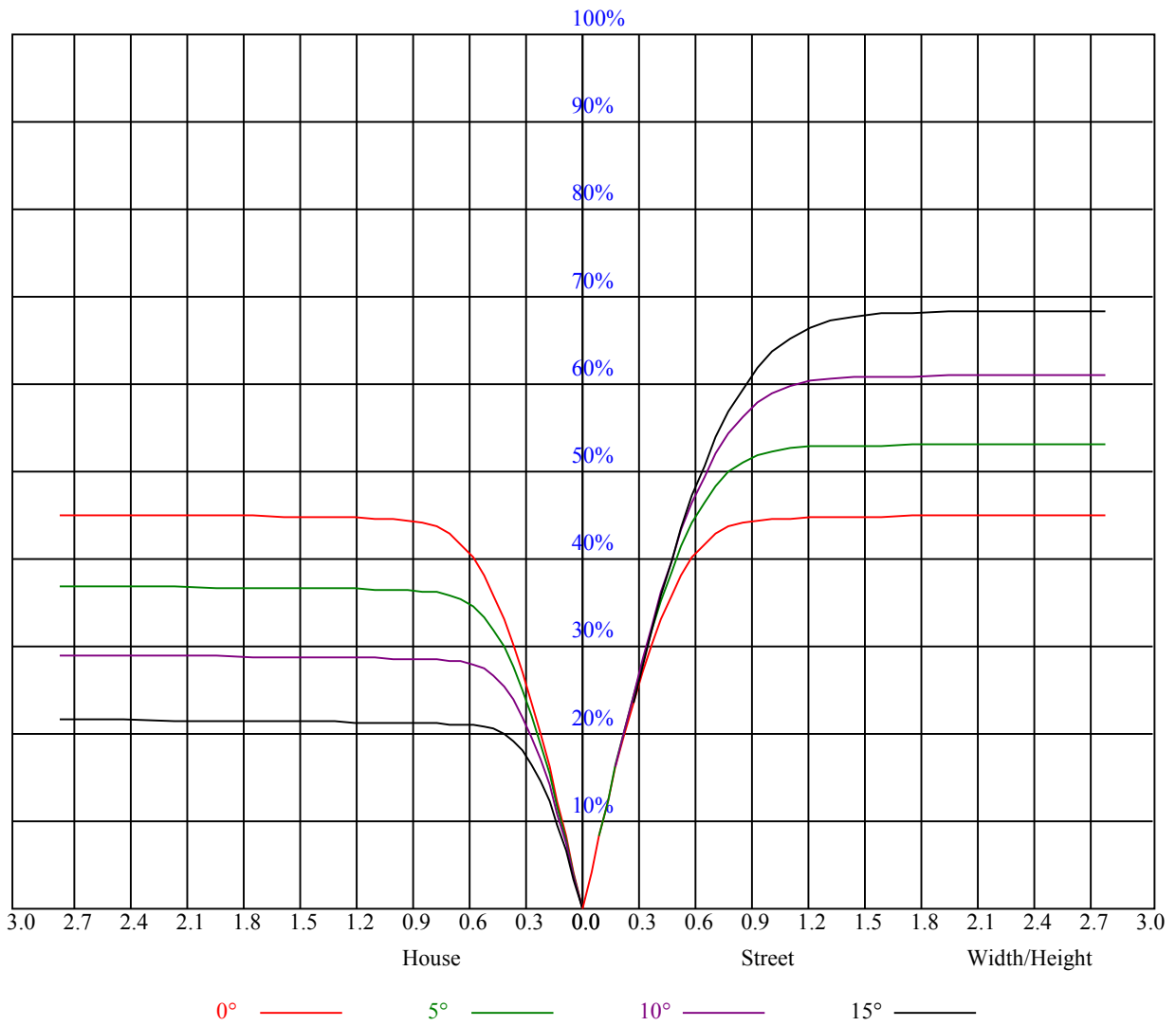
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.00	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.84
2	0.94	0.90	0.87	0.92	0.89	0.86	0.89	0.87	0.84	0.87	0.84	0.82	0.84	0.82	0.81	0.79
3	0.88	0.84	0.80	0.87	0.83	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.74
4	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.71	0.70
5	0.78	0.73	0.69	0.77	0.73	0.69	0.76	0.72	0.68	0.74	0.71	0.68	0.73	0.70	0.67	0.66
6	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.69	0.66	0.63	0.62
7	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
8	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56
9	0.63	0.58	0.55	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.53
10	0.60	0.55	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.51	0.58	0.54	0.51	0.50



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	2704.92	2661.98	2542.50	2388.35	2195.10	1936.88	1522.86	1027.90	360.62
45.0	2700.52	2645.46	2523.23	2349.81	2163.17	1870.27	1454.59	922.19	287.39
90.0	2692.81	2614.63	2485.80	2284.84	2080.58	1768.41	1363.20	737.15	195.01
135.0	2700.52	2642.71	2530.94	2377.34	2177.48	1900.00	1490.93	936.51	354.56
180.0	2704.92	2642.16	2522.13	2368.53	2191.80	1895.59	1466.15	943.23	310.46
225.0	2700.52	2655.37	2538.10	2390.55	2222.63	1957.26	1523.41	1019.42	371.14
270.0	2692.81	2674.09	2583.80	2463.77	2271.63	2039.29	1647.84	1178.76	512.02
315.0	2700.52	2651.52	2552.41	2409.82	2219.32	1940.74	1522.31	993.77	340.63
360.0	2704.92	2661.98	2542.50	2388.35	2195.10	1936.88	1522.86	1027.90	360.62
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	81.87	28.08	16.30	12.66	11.67	11.18	10.68	10.41	10.08
45.0	61.88	23.62	15.47	12.61	11.89	11.29	10.79	10.46	10.19
90.0	57.81	22.24	14.76	12.66	11.95	12.28	12.77	12.06	10.79
135.0	68.16	21.97	14.81	12.44	11.56	11.12	10.74	10.41	10.13
180.0	64.36	21.31	14.20	12.11	11.40	10.90	10.46	10.24	9.97
225.0	79.89	24.39	15.03	12.50	11.62	11.18	10.68	10.35	10.19
270.0	96.73	29.62	16.30	13.10	11.89	11.23	10.79	10.46	10.19
315.0	78.51	25.05	15.58	12.50	11.62	11.07	10.68	10.35	10.13
360.0	81.87	28.08	16.30	12.66	11.67	11.18	10.68	10.41	10.08
C/ γ (°)	90.0								
0.0	9.86								
45.0	9.97								
90.0	9.91								
135.0	9.91								
180.0	9.86								
225.0	9.91								
270.0	9.91								
315.0	9.86								
360.0	9.86								