
LumCAT: 3-2384-M
Luminaire: 92.70.135.00
Report No: Voltage(V): 34.7300
Test No: GC2019052314 Current(A): 0.5970
LampCAT: LUMILEDS LUXEON 1208 Power (W): 20.7300
Lamp flux(lm): 2609.0 PF: 1.0000
Number of Lamps: 1 Ballast type: DC
Length(mm): 74 Width(mm): 74
Phm Type: C Height(mm): 0

Photometric Results

Lumens(lm): 2555.97
Efficiency(%): 97.97%
Lumens(lm)/Power(W): 123.30
Central intensity(cd): 5744.531
Maximum intensity(cd): 5744.531
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=36.3
 [C90/270]Total=36.3
Field angle(10%Imax): [C0/180]Total=66.8
 [C90/270]Total=66.8
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
Maximum s/h(1/4): C0_180=0.59 C90_270=0.59
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 97.97%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.516%

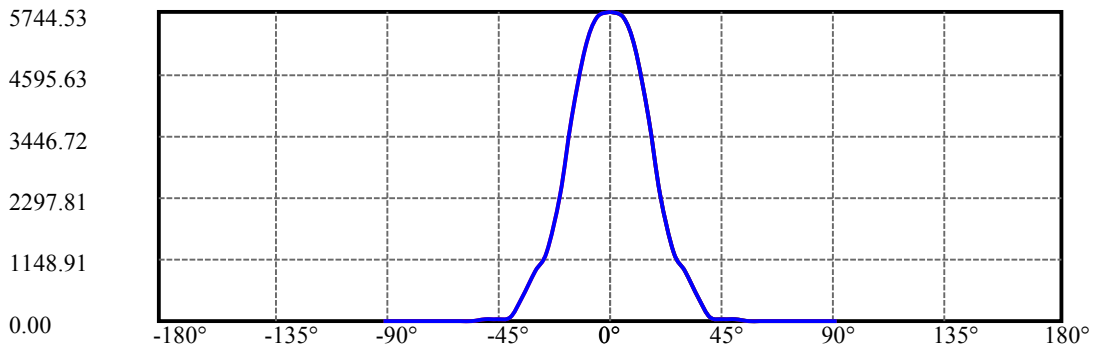
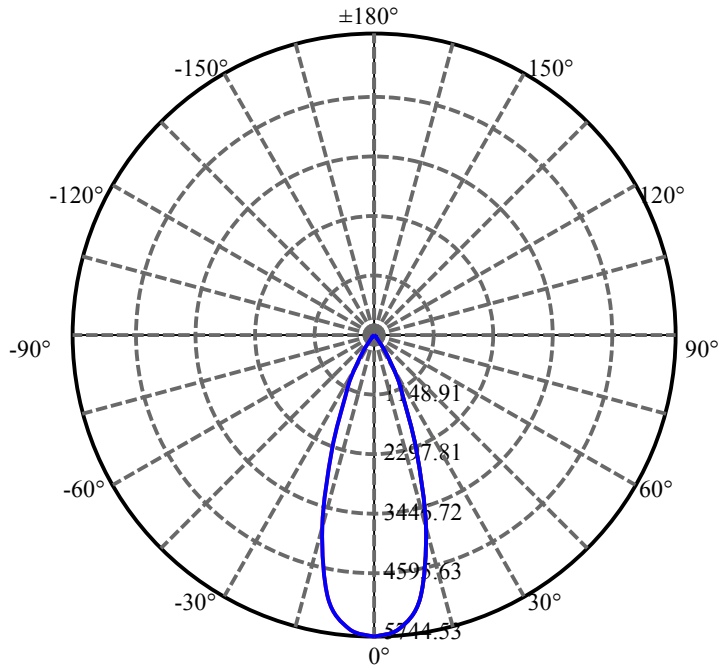
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5744.531	0.000	0	.000%	.000%
5.0	5627.039	135.944	135.944	5.211%	5.319%
10.0	5074.523	382.829	518.772	14.673%	20.297%
15.0	3789.914	525.832	1044.605	20.155%	40.869%
20.0	2338.102	505.035	1549.64	19.357%	60.628%
25.0	1274.484	378.894	1928.533	14.523%	75.452%
30.0	914.597	277.030	2205.563	10.618%	86.291%
35.0	410.963	195.198	2400.761	7.482%	93.928%
40.0	54.935	77.732	2478.493	2.979%	96.969%
45.0	26.578	15.093	2493.585	.578%	97.559%
50.0	19.624	9.336	2502.921	.358%	97.925%
55.0	16.460	7.846	2510.767	.301%	98.232%
60.0	14.963	7.263	2518.031	.278%	98.516%
65.0	14.027	7.047	2525.078	.270%	98.792%
70.0	13.085	6.865	2531.943	.263%	99.060%
75.0	11.693	6.477	2538.42	.248%	99.314%
80.0	10.927	6.052	2544.472	.232%	99.550%
85.0	10.526	5.829	2550.301	.223%	99.778%
90.0	10.160	5.664	2555.965	.217%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2205.56	84.54%	86.29%
0-40	2478.49	95.00%	96.97%
0-60	2518.03	96.51%	98.52%
0-90	2550.30	97.75%	99.78%
0-120	2550.30	97.75%	99.78%
0-180	2555.97	97.97%	100.00%
60-90	39.53	1.52%	1.55%
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%
0-27.10	2044.77	78.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	518.77
10-20	1030.87
20-30	655.92
30-40	272.93
40-50	24.43
50-60	15.11
60-70	13.91
70-80	12.53
80-90	5.83
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



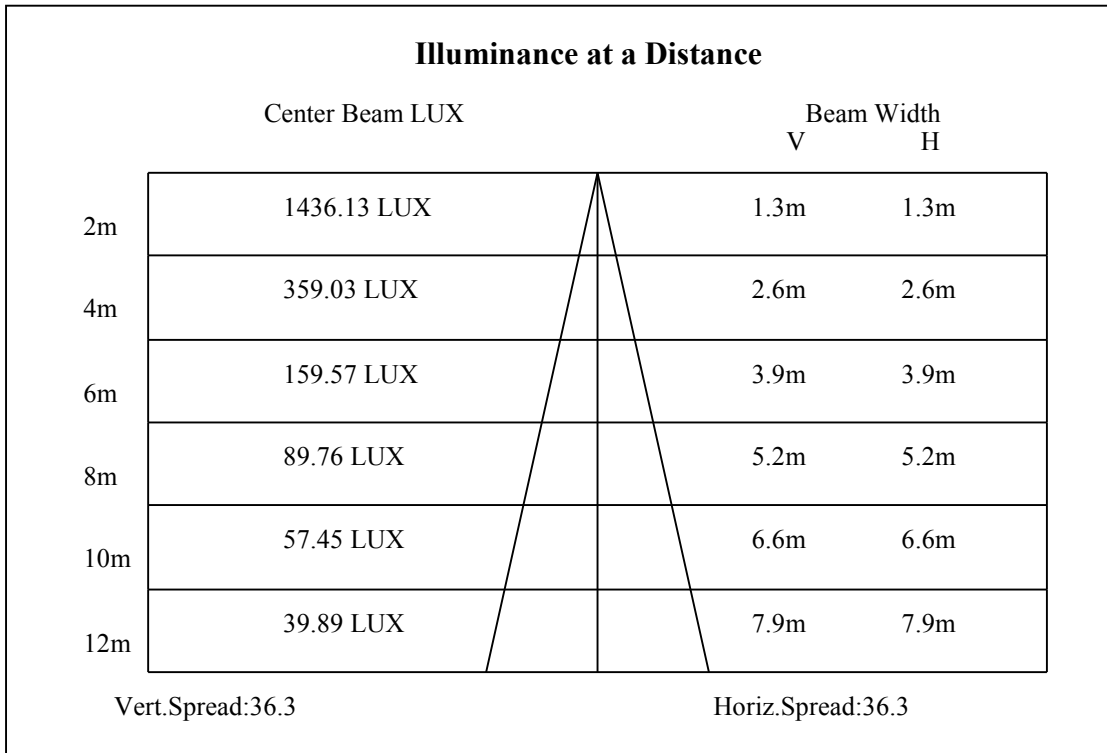
C0(Max): —————

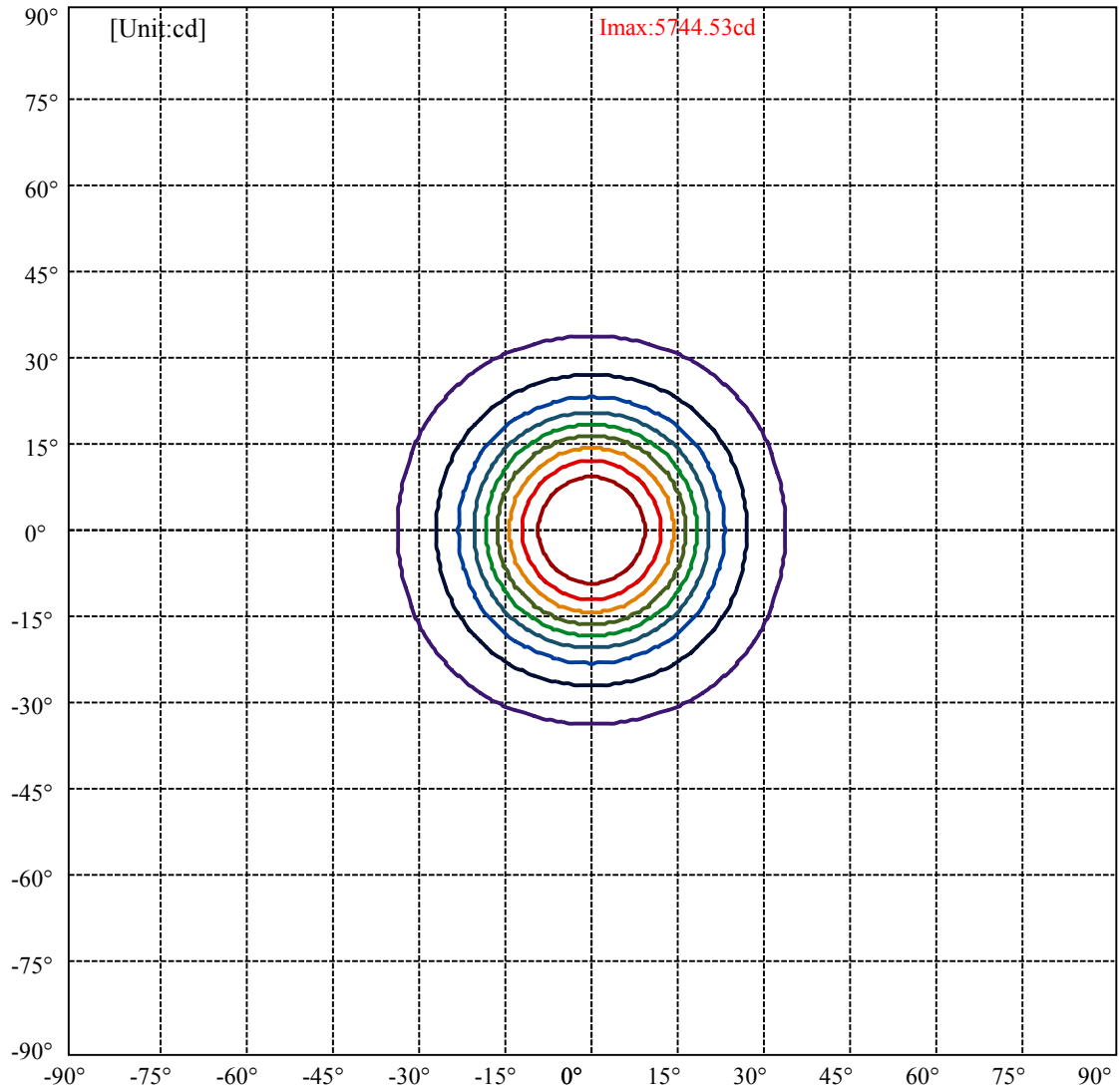
C0/C180: —————

C90/C270: —————

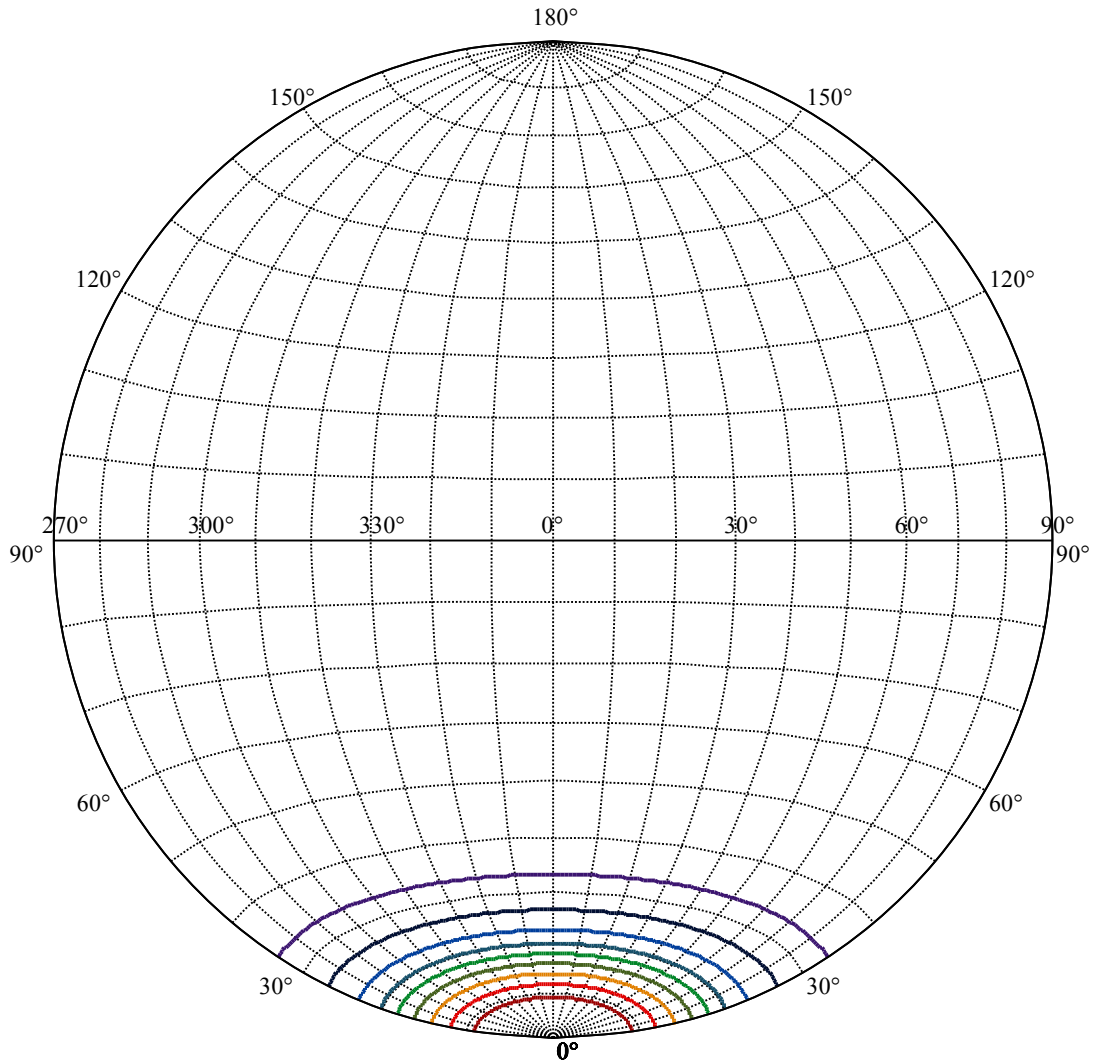
Field angle(10%Imax):C0/180Left:33.4 Right:33.4
:C90/270Left:33.4 Right:33.4

Beam Angle(50%Imax):C0/180Left:18.2 Right:18.2
:C90/270Left:18.2 Right:18.2





(10%Imax) 574.453	—
(20%Imax) 1148.91	—
(30%Imax) 1723.36	—
(40%Imax) 2297.81	—
(50%Imax) 2872.27	—
(60%Imax) 3446.72	—
(70%Imax) 4021.17	—
(80%Imax) 4595.63	—
(90%Imax) 5170.08	—



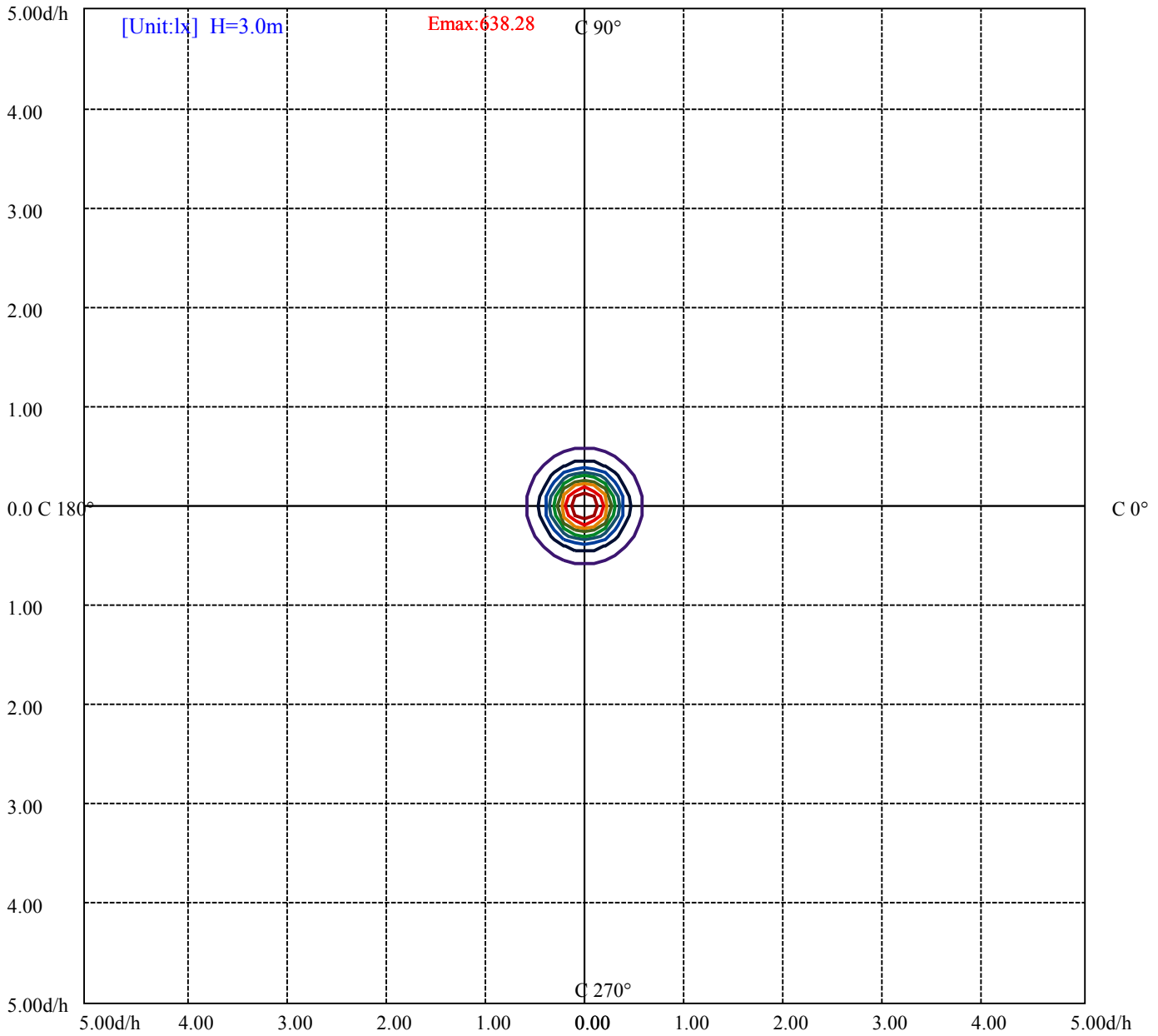
House

[Unit:cd]

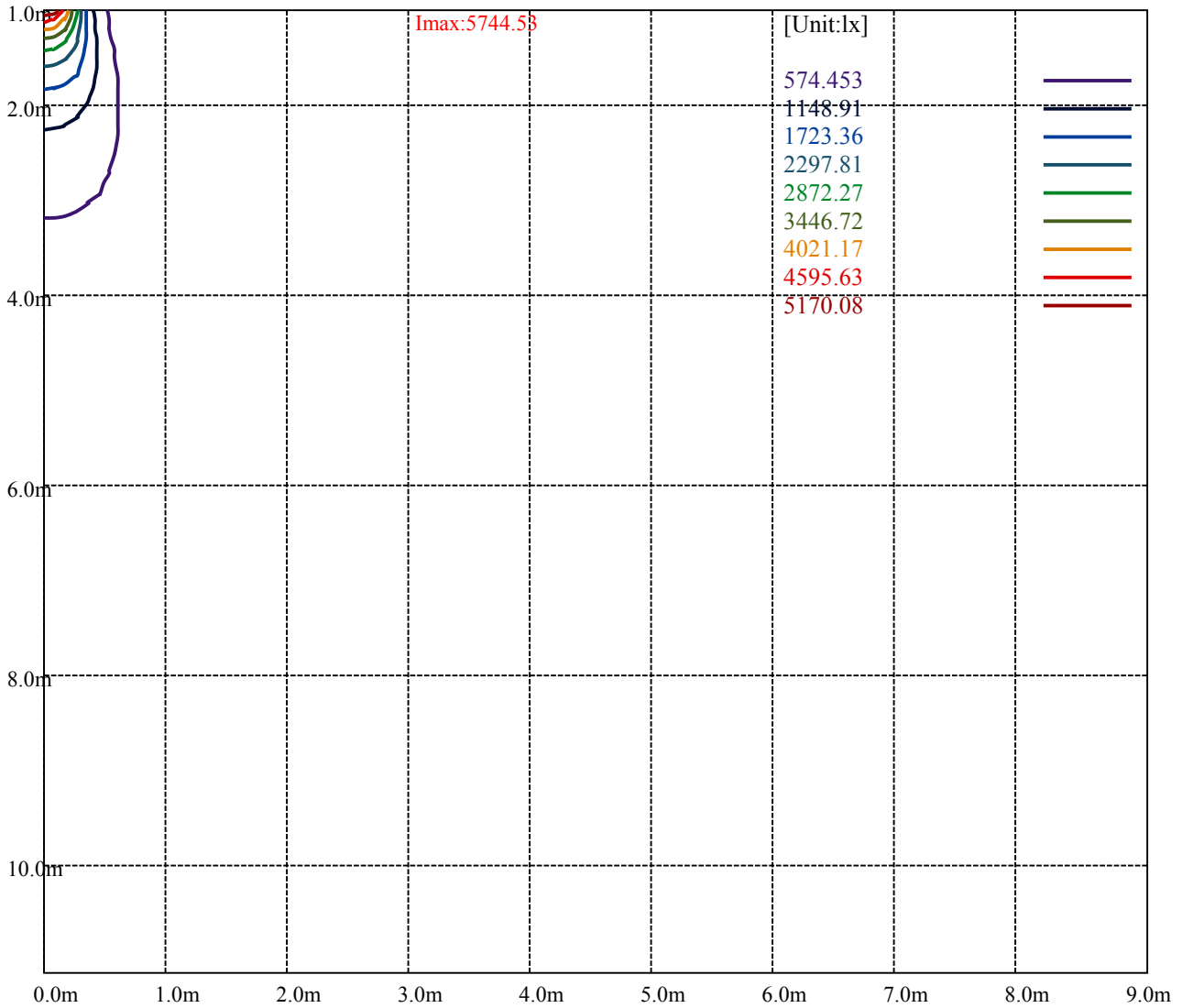
Road

Imax:5744.53

(10%Imax) 574.453	—
(20%Imax) 1148.91	—
(30%Imax) 1723.36	—
(40%Imax) 2297.81	—
(50%Imax) 2872.27	—
(60%Imax) 3446.72	—
(70%Imax) 4021.17	—
(80%Imax) 4595.63	—
(90%Imax) 5170.08	—



(10%Emax) 63.82811	—
(20%Emax) 127.6567	—
(30%Emax) 191.4844	—
(40%Emax) 255.3122	—
(50%Emax) 319.14	—
(60%Emax) 382.9689	—
(70%Emax) 446.7967	—
(80%Emax) 510.6245	—
(90%Emax) 574.4534	—



Luminance Table

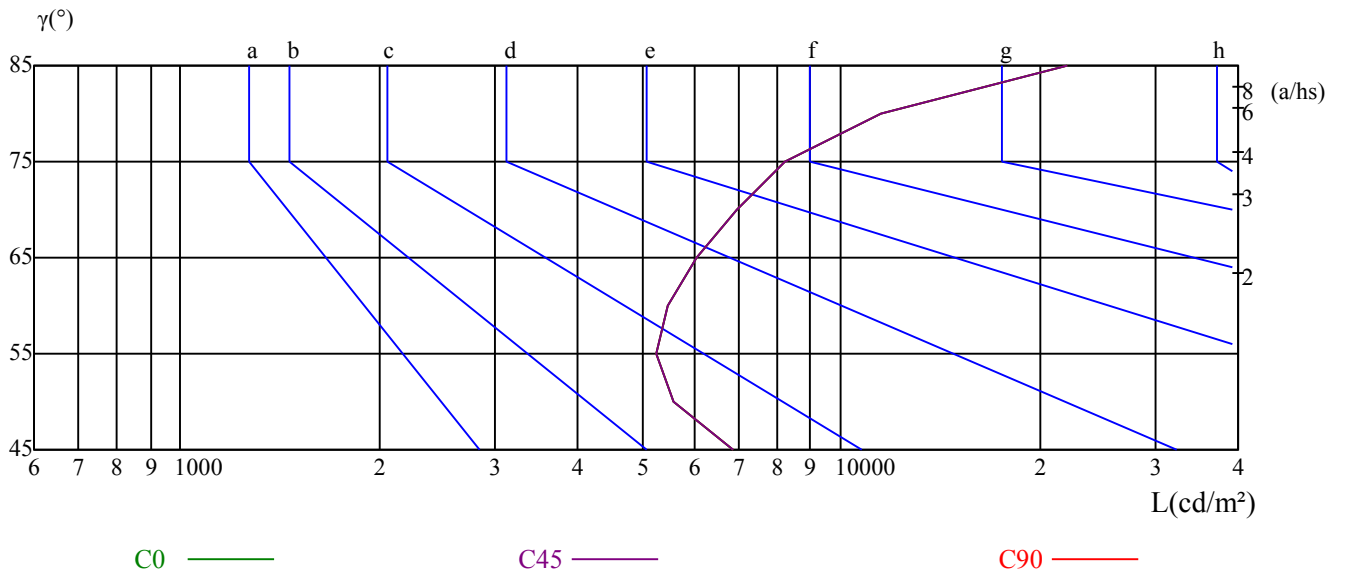
γ	45	50	55	60	65	70	75	80	85
C0	6864	5575	5241	5465	6061	6987	8250	11491	22054
C45	6864	5575	5241	5465	6061	6987	8250	11491	22054
C90	6864	5575	5241	5465	6061	6987	8250	11491	22054

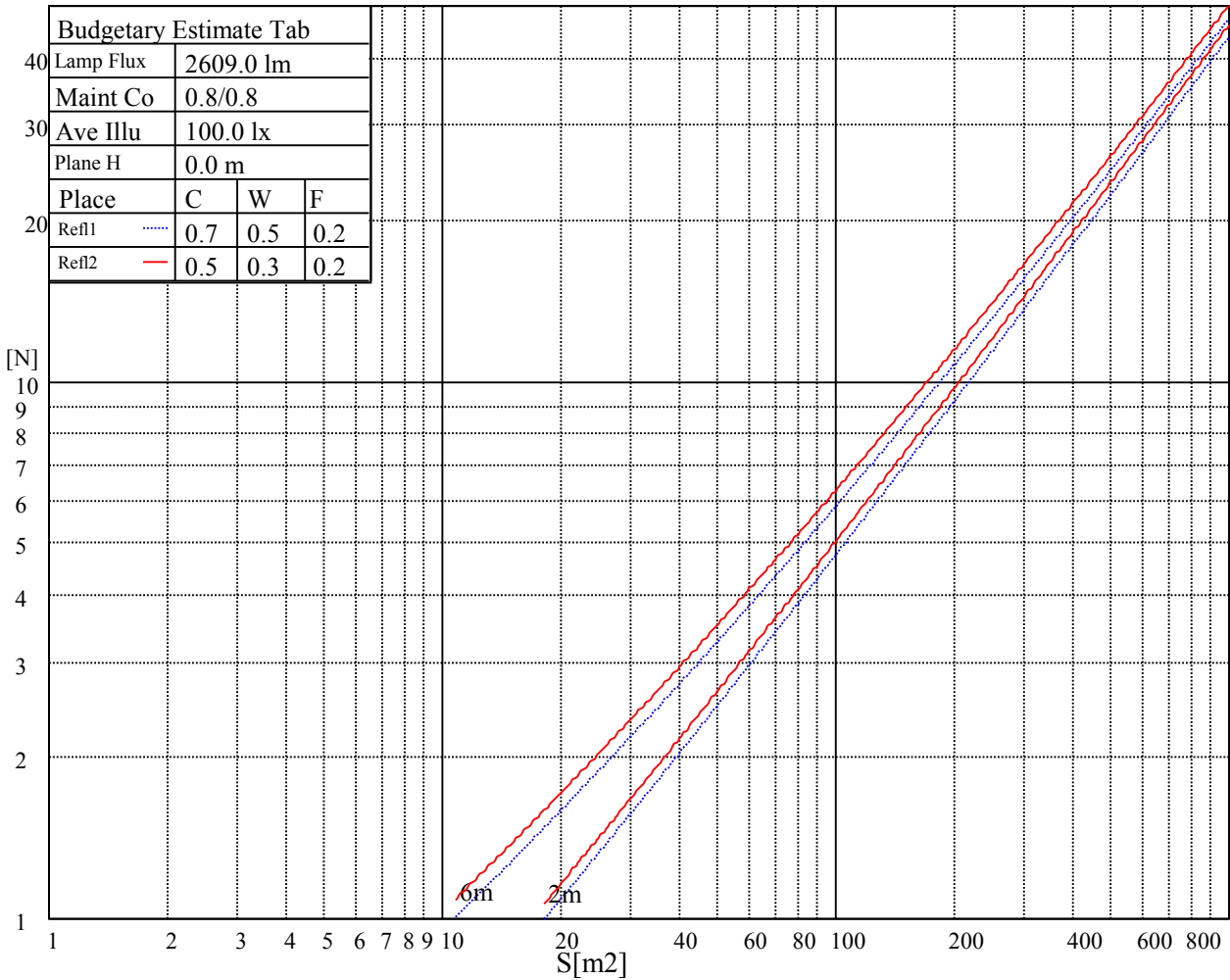
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6061	6061	6061	8250	8250	8250	22054	22054	22054

Glare Table

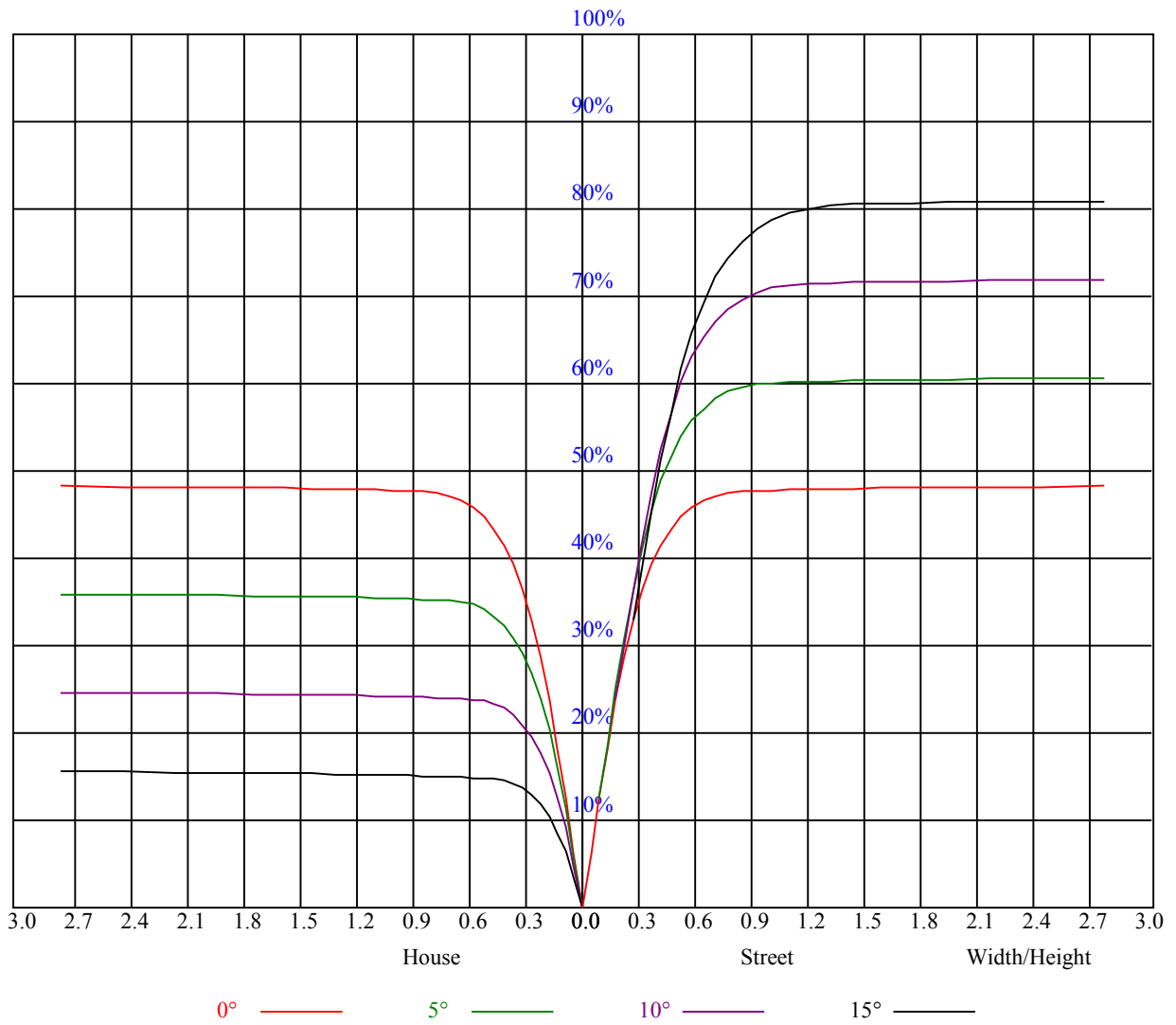
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.09	1.07	1.05	1.07	1.05	1.03	1.03	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93
2	1.03	0.99	0.96	1.01	0.98	0.95	0.98	0.96	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.88
3	0.97	0.93	0.90	0.96	0.92	0.89	0.93	0.90	0.88	0.91	0.89	0.86	0.89	0.87	0.85	0.84
4	0.92	0.88	0.84	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.86	0.83	0.81	0.79
5	0.88	0.83	0.79	0.87	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.76
6	0.84	0.79	0.75	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.72
7	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
9	0.73	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.64
10	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.61



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	5725.13	5721.19	5247.56	3846.38	2383.88	1414.13	1022.63	478.13	80.61
45.0	5753.81	5748.19	5262.19	3857.63	2283.19	1302.19	937.69	406.69	51.02
90.0	5748.75	5665.50	5087.25	3514.50	1893.38	1021.39	767.64	312.86	28.29
135.0	5750.44	5583.38	5124.38	3987.56	2467.69	1229.06	875.81	412.31	54.06
180.0	5725.13	5486.63	4807.13	3733.88	2475.56	1445.06	1021.56	433.46	70.43
225.0	5753.81	5550.75	4920.19	3828.94	2535.19	1409.63	991.74	436.44	52.71
270.0	5748.75	5625.56	5126.06	3951.00	2579.63	1269.56	896.06	482.06	57.99
315.0	5750.44	5635.13	5021.44	3599.44	2086.31	1104.86	803.64	325.74	44.38
360.0	5725.13	5721.19	5247.56	3846.38	2383.88	1414.13	1022.63	478.13	80.61
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	41.34	27.90	21.60	18.17	15.81	13.95	11.87	10.86	10.41
45.0	24.02	16.88	14.40	13.89	13.78	13.22	11.76	10.91	10.52
90.0	17.61	15.41	13.56	12.60	12.09	11.76	11.14	10.69	10.46
135.0	23.01	17.04	14.74	13.67	13.16	12.71	11.70	11.14	10.74
180.0	40.33	27.96	21.66	18.56	16.03	13.84	11.70	10.91	10.46
225.0	25.31	18.90	16.09	14.85	14.18	13.16	11.76	10.91	10.46
270.0	19.46	15.86	13.95	13.05	12.88	12.88	11.87	10.97	10.58
315.0	21.54	17.04	15.69	14.91	14.29	13.16	11.76	11.03	10.58
360.0	41.34	27.90	21.60	18.17	15.81	13.95	11.87	10.86	10.41
C/ γ (°)	90.0								
0.0	10.07								
45.0	10.13								
90.0	10.13								
135.0	10.18								
180.0	10.13								
225.0	10.24								
270.0	10.24								
315.0	10.18								
360.0	10.07								