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Nata

LumCAT: 1-0937-N	
Luminaire: 92.70.361.000	
Report No: 220519-B024	Voltage(V): 37.1700
Test No: 220519-C024	Current(A): 0.3700
LampCAT: Bridgelux C10-(30C2000C)	Power (W): 13.7640
Lamp flux(lm): 1425.8	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 43	Width(mm): 43
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1151.80
Efficiency(%): 80.78%
Lumens(lm)/Power(W): 83.68
Central intensity(cd): 3054.120
Maximum intensity(cd): 3054.120
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.6
 [C90/270]Total=34.6
Field angle(10%Imax): [C0/180]Total=56.9
 [C90/270]Total=56.9
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
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(%): 80.78%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.023%

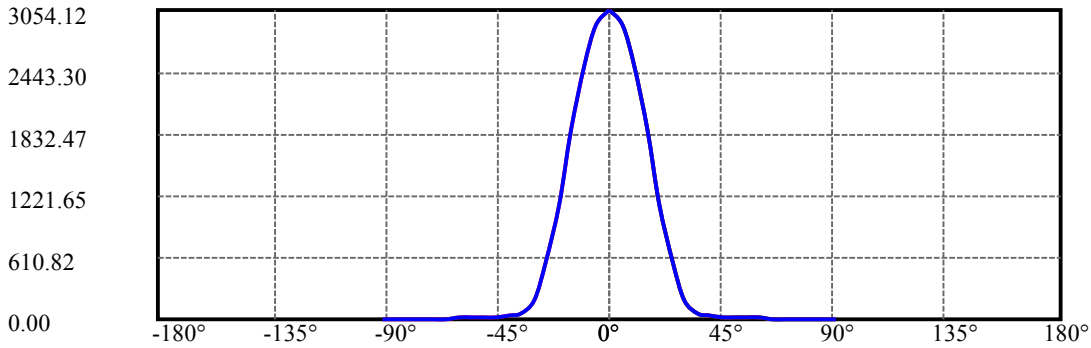
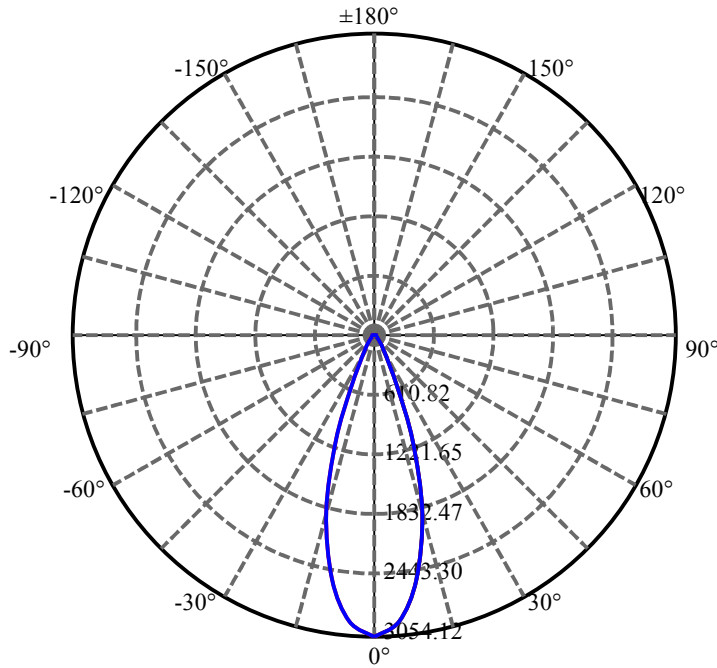
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3054.120	0.000	0	.000%	.000%
5.0	2909.070	71.288	71.288	5.000%	6.189%
10.0	2506.111	193.718	265.006	13.587%	23.008%
15.0	1857.792	258.864	523.87	18.156%	45.483%
20.0	1143.850	247.377	771.248	17.350%	66.960%
25.0	573.434	180.111	951.359	12.632%	82.598%
30.0	186.541	96.175	1047.534	6.745%	90.948%
35.0	51.395	35.038	1082.572	2.457%	93.990%
40.0	34.851	14.389	1096.962	1.009%	95.239%
45.0	24.469	10.984	1107.945	.770%	96.193%
50.0	18.008	8.583	1116.528	.602%	96.938%
55.0	13.519	6.855	1123.383	.481%	97.533%
60.0	10.905	5.646	1129.029	.396%	98.023%
65.0	9.135	4.872	1133.9	.342%	98.446%
70.0	7.984	4.335	1138.235	.304%	98.822%
75.0	7.028	3.924	1142.159	.275%	99.163%
80.0	6.267	3.557	1145.717	.249%	99.472%
85.0	5.579	3.219	1148.936	.226%	99.751%
90.0	4.877	2.863	1151.799	.201%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1047.53	73.47%	90.95%
0-40	1096.96	76.94%	95.24%
0-60	1129.03	79.19%	98.02%
0-90	1148.94	80.58%	99.75%
0-120	1148.94	80.58%	99.75%
0-180	1151.80	80.78%	100.00%
60-90	25.55	1.79%	2.22%
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%
0-24.17	921.44	64.63%	80.00%

ZONAL LUMEN SUMMARY

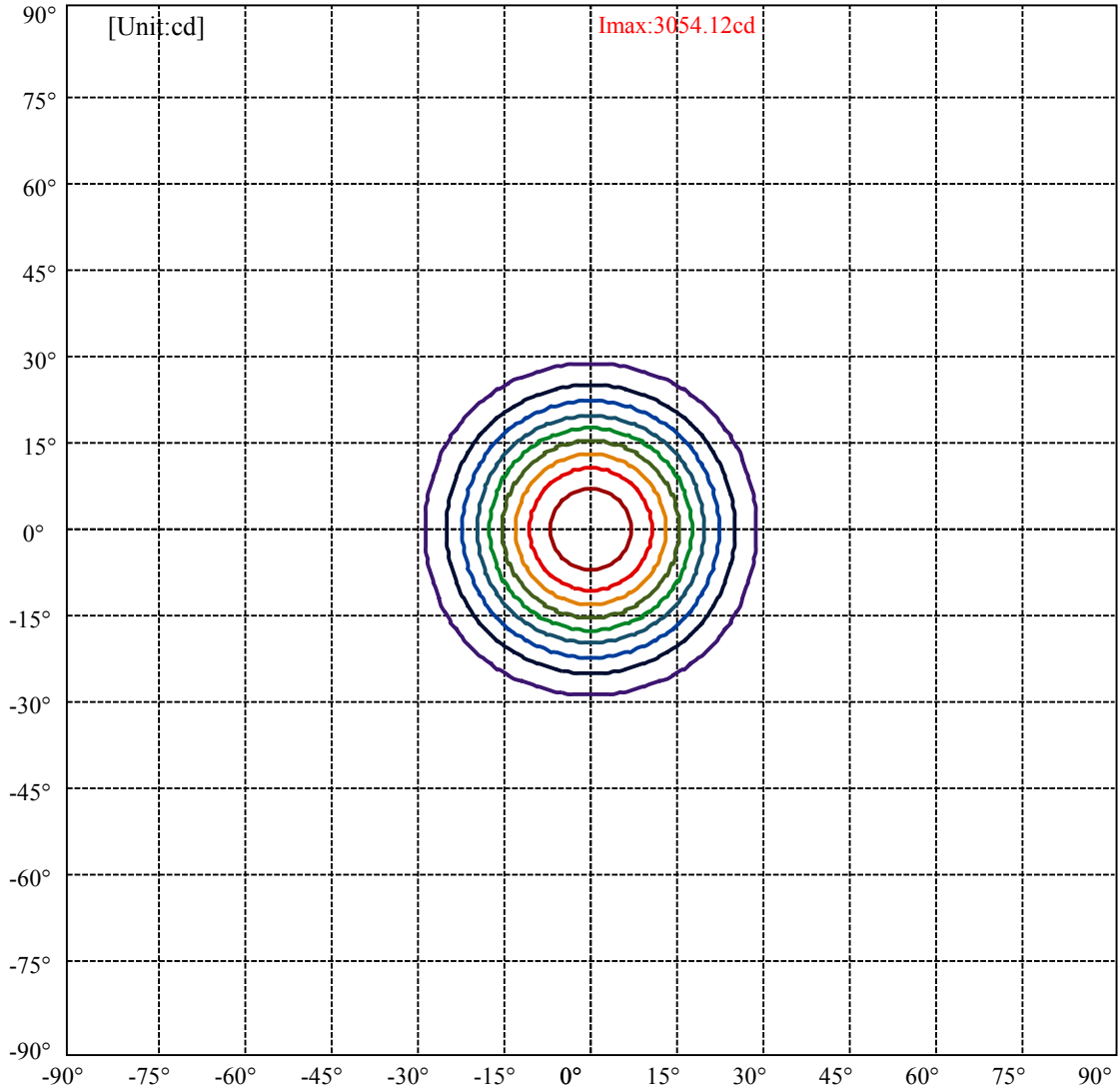
0-10	265.01
10-20	506.24
20-30	276.29
30-40	49.43
40-50	19.57
50-60	12.50
60-70	9.21
70-80	7.48
80-90	3.22
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



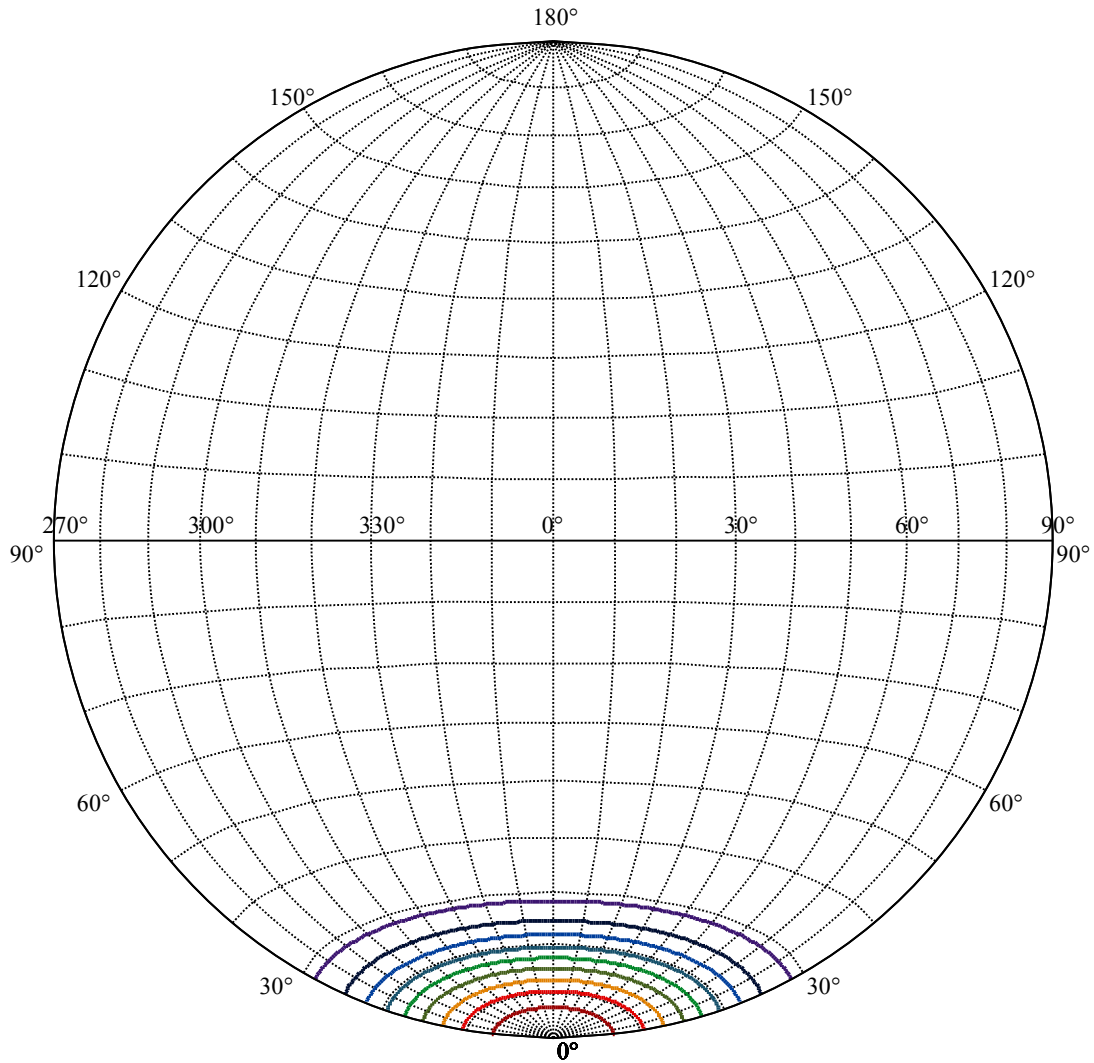
C0(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10%Imax):C0/180Left:28.5 Right:28.5
:C90/270Left:28.5 Right:28.5

Beam Angle(50%Imax):C0/180Left:17.3 Right:17.3
:C90/270Left:17.3 Right:17.3



(10%Imax) 305.412	—
(20%Imax) 610.824	—
(30%Imax) 916.236	—
(40%Imax) 1221.65	—
(50%Imax) 1527.06	—
(60%Imax) 1832.47	—
(70%Imax) 2137.88	—
(80%Imax) 2443.3	—
(90%Imax) 2748.71	—



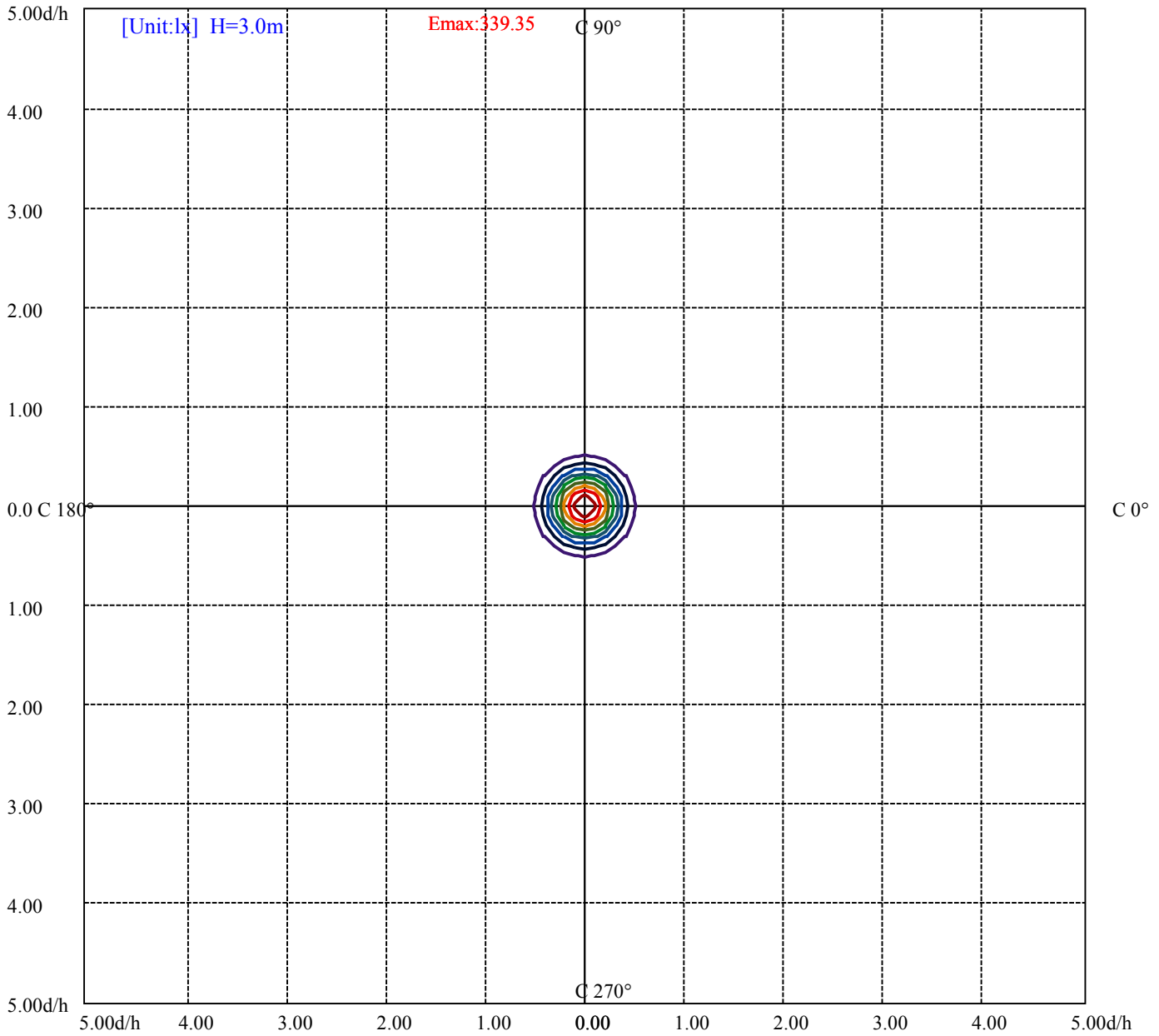
House

[Unit:cd]

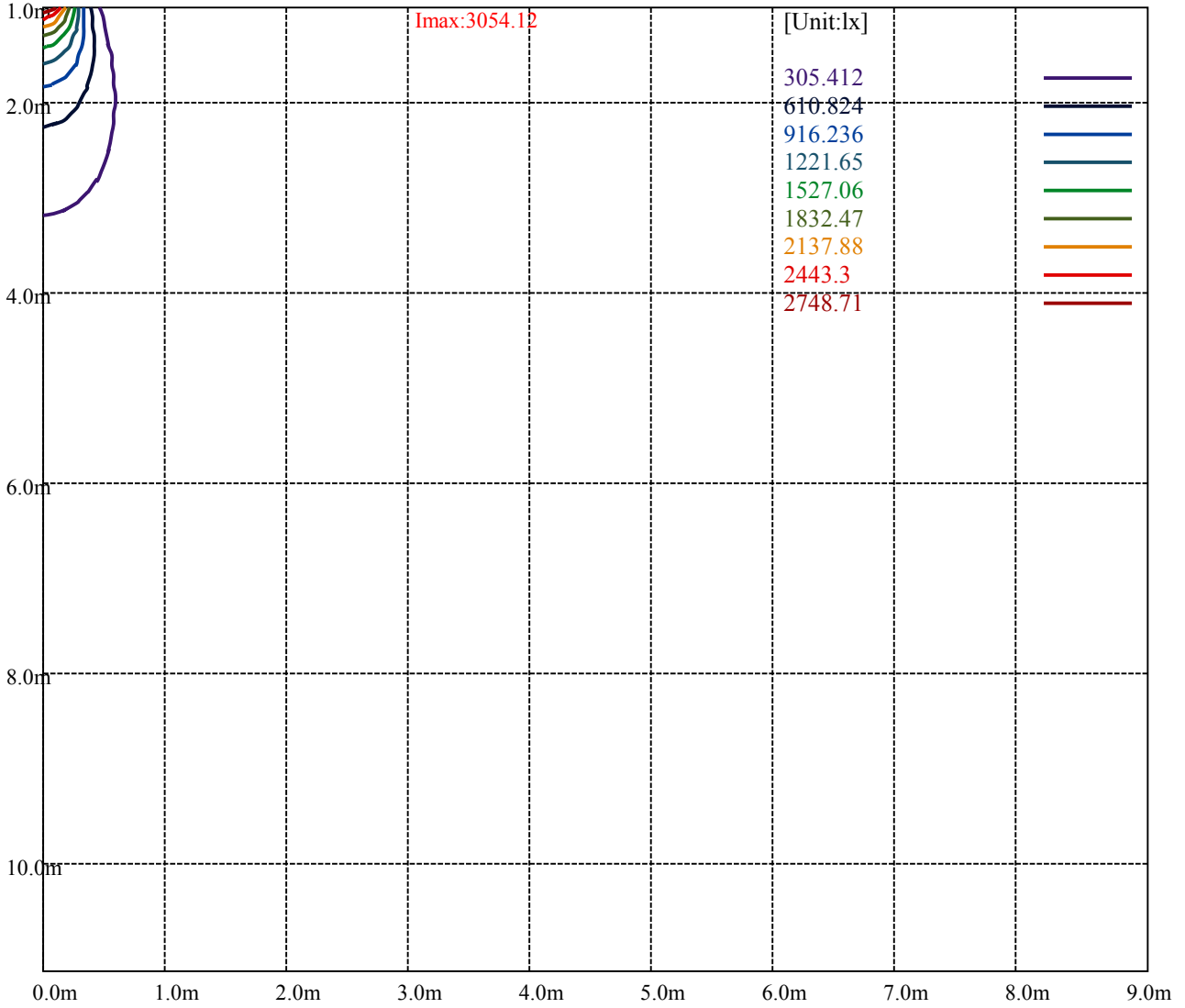
Road

Imax:3054.12

(10%Imax) 305.412	—
(20%Imax) 610.824	—
(30%Imax) 916.236	—
(40%Imax) 1221.65	—
(50%Imax) 1527.06	—
(60%Imax) 1832.47	—
(70%Imax) 2137.88	—
(80%Imax) 2443.3	—
(90%Imax) 2748.71	—



- (10%Emax) 33.93467
- (20%Emax) 67.86922
- (30%Emax) 101.8039
- (40%Emax) 135.7389
- (50%Emax) 169.6733
- (60%Emax) 203.6078
- (70%Emax) 237.5422
- (80%Emax) 271.4767
- (90%Emax) 305.4111



Luminance Table

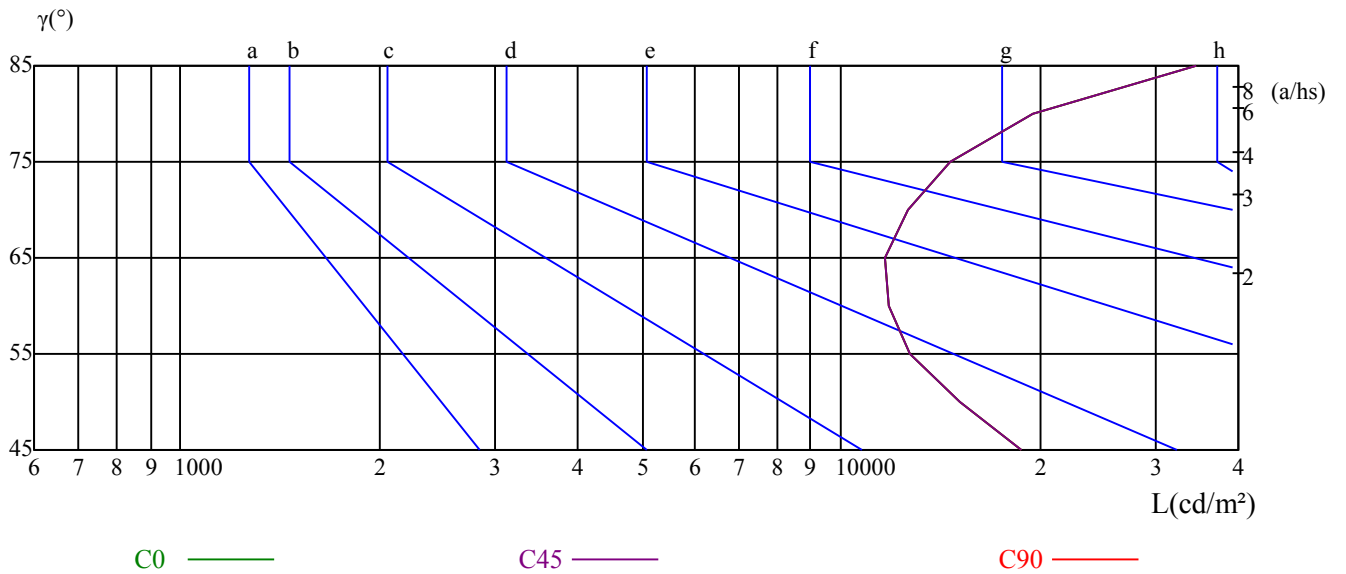
γ	45	50	55	60	65	70	75	80	85
C0	18715	15152	12747	11795	11690	12626	14687	19517	34622
C45	18715	15152	12747	11795	11690	12626	14687	19517	34622
C90	18715	15152	12747	11795	11690	12626	14687	19517	34622

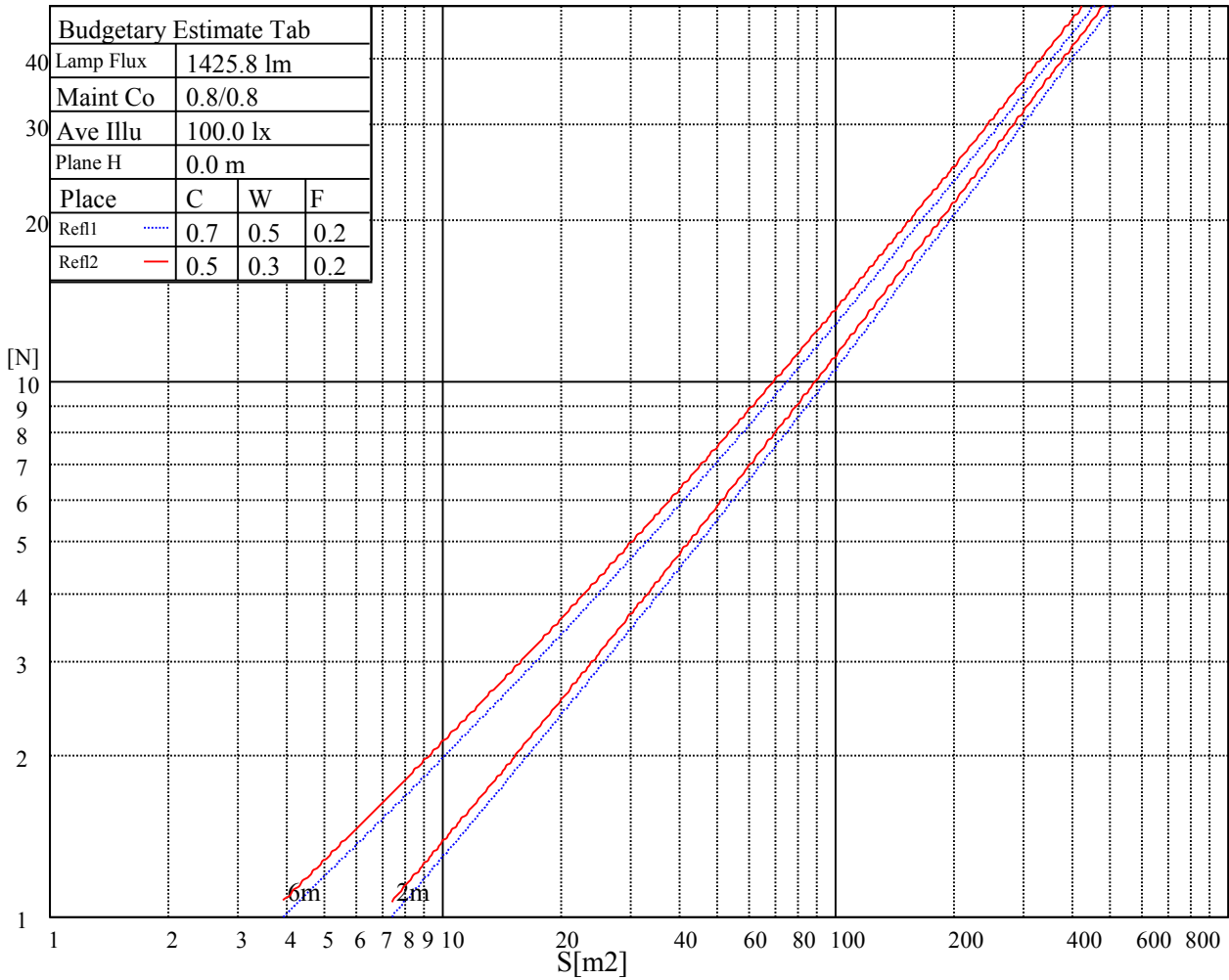
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11690	11690	11690	14687	14687	14687	34622	34622	34622

Glare Table

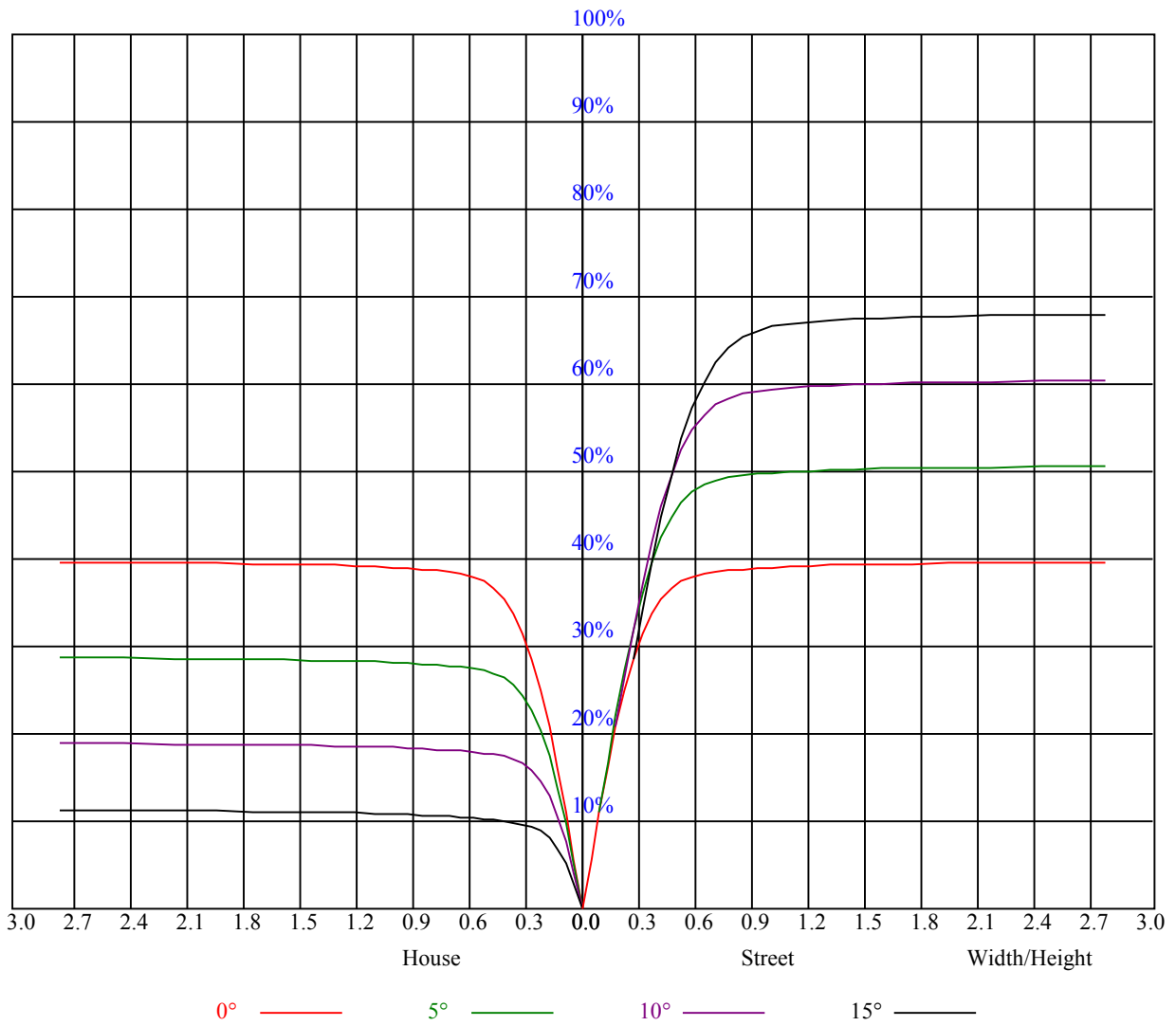
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.96	0.96	0.96	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.81
1	0.90	0.88	0.87	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77
2	0.85	0.82	0.80	0.84	0.81	0.79	0.81	0.79	0.77	0.79	0.77	0.76	0.77	0.75	0.74	0.73
3	0.81	0.77	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.70
4	0.77	0.73	0.70	0.76	0.73	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.68	0.66
5	0.73	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.64
6	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.67	0.65	0.62	0.67	0.64	0.62	0.61
7	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
8	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.57	0.57
9	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.54
10	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.55	0.53	0.53



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	3049.19	2988.24	2665.58	2071.04	1380.29	734.36	304.14	61.78	39.44
45.0	3061.14	2876.50	2457.64	1802.74	1078.54	503.12	143.77	47.86	33.16
90.0	3045.61	2808.39	2341.12	1627.07	942.42	423.59	100.09	44.34	30.35
135.0	3060.54	2875.31	2445.69	1759.72	1075.55	502.52	129.72	46.37	32.74
180.0	3049.19	2823.32	2323.79	1612.73	953.78	407.22	97.22	45.11	31.19
225.0	3061.14	2955.98	2562.20	1920.46	1189.98	611.57	192.34	52.58	36.21
270.0	3045.61	2987.05	2679.92	2098.52	1367.74	784.56	314.90	59.10	39.68
315.0	3060.54	2957.77	2572.96	1970.05	1162.49	620.53	210.15	54.02	36.03
360.0	3049.19	2988.24	2665.58	2071.04	1380.29	734.36	304.14	61.78	39.44
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	27.31	20.08	14.76	11.65	9.74	8.37	7.29	6.45	5.68
45.0	24.14	17.45	13.09	10.58	8.90	7.83	6.87	6.15	5.38
90.0	22.17	16.37	12.49	10.34	8.78	7.71	6.87	6.21	5.32
135.0	23.06	17.03	13.15	10.64	8.96	7.89	6.93	6.15	5.50
180.0	21.93	16.49	12.49	10.22	8.60	7.65	6.75	6.04	5.44
225.0	25.34	18.34	13.86	11.05	9.20	7.95	7.05	6.21	5.68
270.0	27.07	19.66	14.46	11.65	9.56	8.43	7.35	6.57	5.98
315.0	24.74	18.64	13.86	11.11	9.32	8.07	7.11	6.33	5.68
360.0	27.31	20.08	14.76	11.65	9.74	8.37	7.29	6.45	5.68
C/ γ (°)	90.0								
0.0	4.90								
45.0	4.84								
90.0	4.84								
135.0	4.84								
180.0	4.84								
225.0	4.90								
270.0	4.96								
315.0	4.90								
360.0	4.90								