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Nata

LumCAT: 1-1063-N	
Luminaire: 92.70.361.000	
Report No: 220519-B020	Voltage(V): 37.0800
Test No: 220519-C020	Current(A): 0.3700
LampCAT: Bridgelux C10-(30C2000C)	Power (W): 13.7190
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): 1157.97
Efficiency(%): 81.21%
Lumens(lm)/Power(W): 84.41
Central intensity(cd): 2232.667
Maximum intensity(cd): 2232.667
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=42.9
 [C90/270]Total=42.9
Field angle(10%Imax): [C0/180]Total=64.2
 [C90/270]Total=64.2
Maximum s/h(1/2): C0_180=0.69 C90_270=0.69
Maximum s/h(1/4): C0_180=0.67 C90_270=0.67
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 81.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.752%

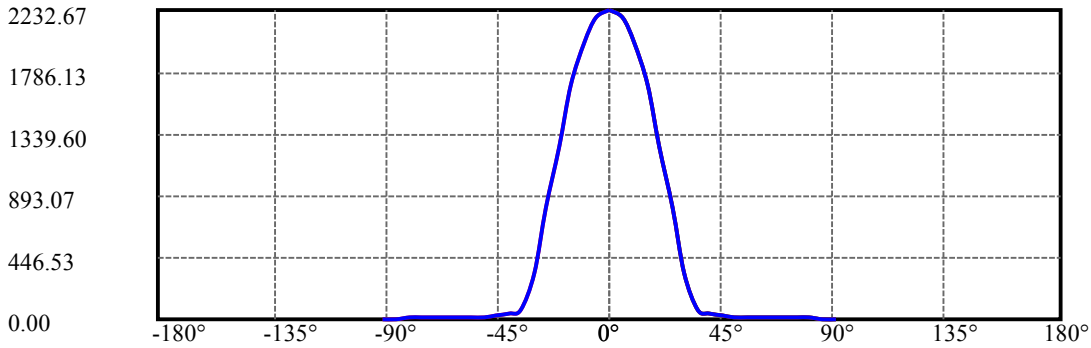
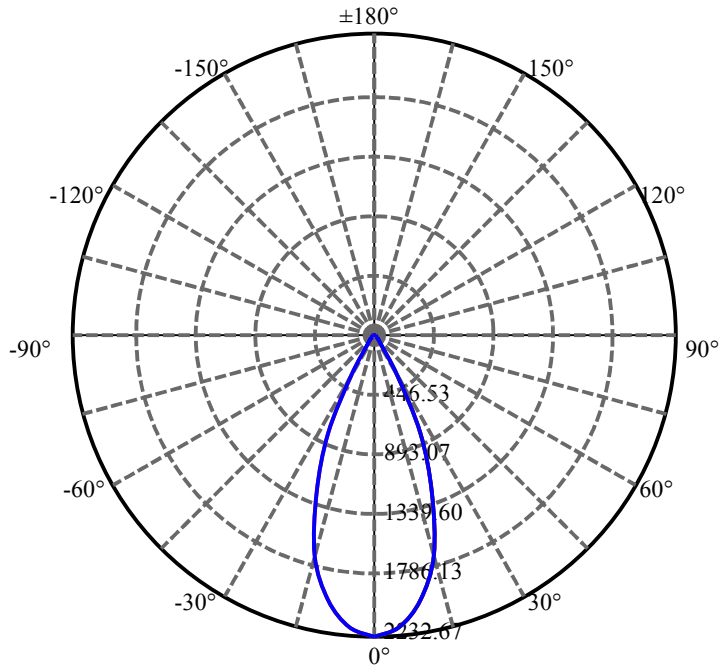
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2232.667	0.000	0	.000%	.000%
5.0	2172.541	52.663	52.663	3.694%	4.548%
10.0	1998.062	149.196	201.859	10.464%	17.432%
15.0	1688.169	218.665	420.523	15.336%	36.316%
20.0	1243.040	241.573	662.096	16.943%	57.178%
25.0	800.263	214.305	876.401	15.030%	75.685%
30.0	336.775	143.893	1020.294	10.092%	88.111%
35.0	66.005	59.312	1079.606	4.160%	93.233%
40.0	35.822	16.989	1096.595	1.192%	94.700%
45.0	25.761	11.403	1107.998	.800%	95.685%
50.0	20.256	9.298	1117.296	.652%	96.488%
55.0	16.059	7.896	1125.192	.554%	97.170%
60.0	13.086	6.737	1131.929	.472%	97.751%
65.0	10.718	5.787	1137.716	.406%	98.251%
70.0	9.314	5.072	1142.788	.356%	98.689%
75.0	8.328	4.611	1147.399	.323%	99.087%
80.0	7.148	4.141	1151.54	.290%	99.445%
85.0	5.706	3.493	1155.033	.245%	99.747%
90.0	5.004	2.933	1157.966	.206%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1020.29	71.56%	88.11%
0-40	1096.60	76.91%	94.70%
0-60	1131.93	79.39%	97.75%
0-90	1155.03	81.01%	99.75%
0-120	1155.03	81.01%	99.75%
0-180	1157.97	81.21%	100.00%
60-90	29.84	2.09%	2.58%
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%
0-26.74	926.37	64.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	201.86
10-20	460.24
20-30	358.20
30-40	76.30
40-50	20.70
50-60	14.63
60-70	10.86
70-80	8.75
80-90	3.49
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: —————

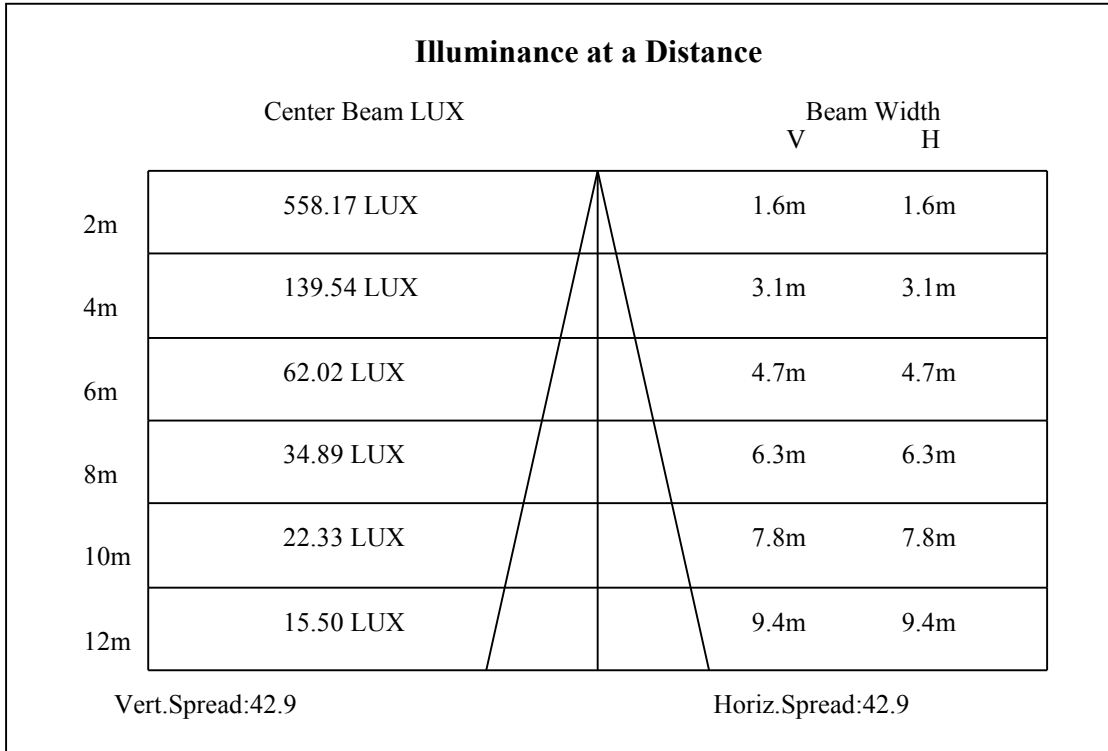
C90/C270: —————

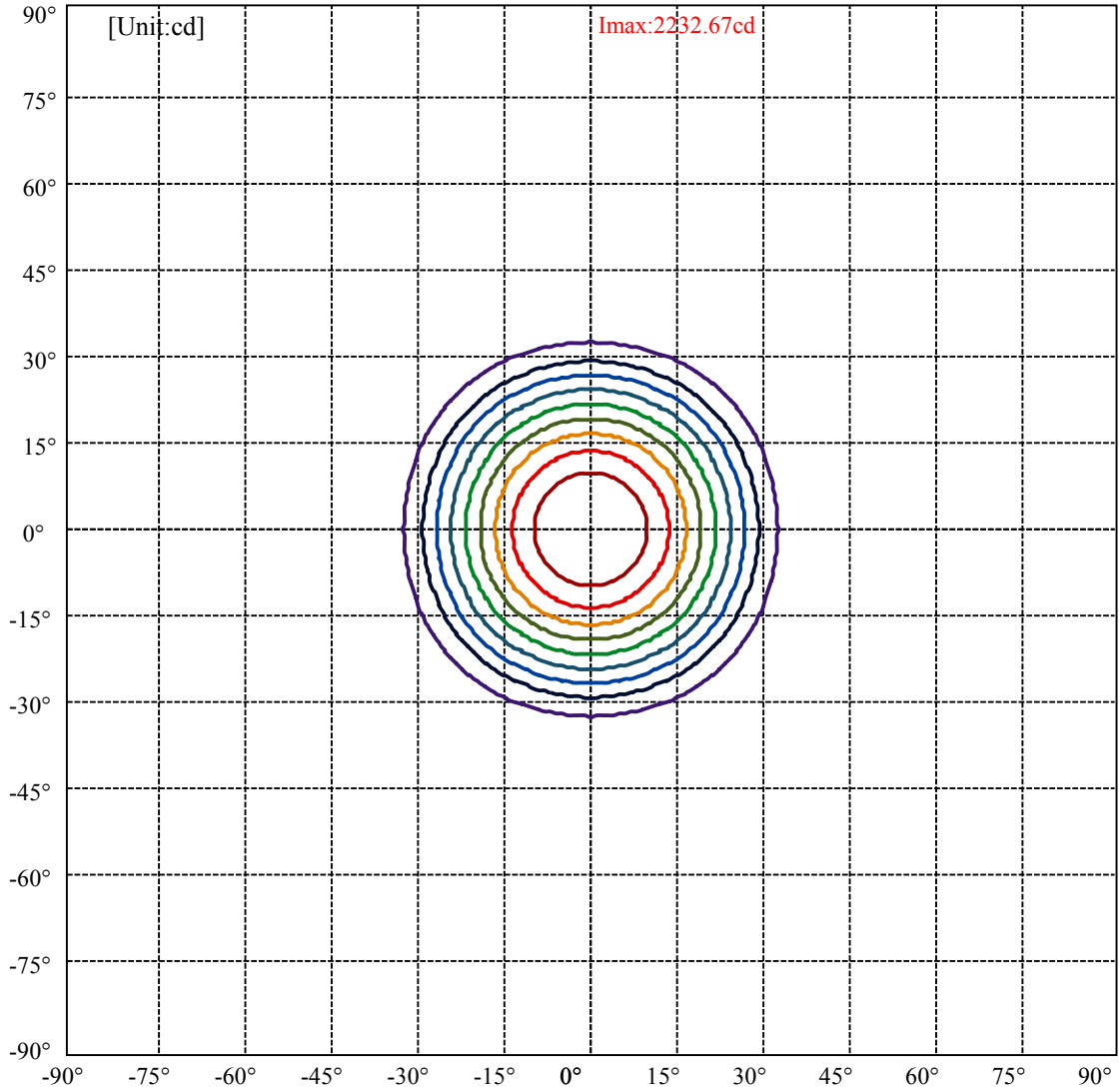
Field angle(10%Imax):C0/180Left:32.1 Right:32.1

:C90/270Left:32.1 Right:32.1

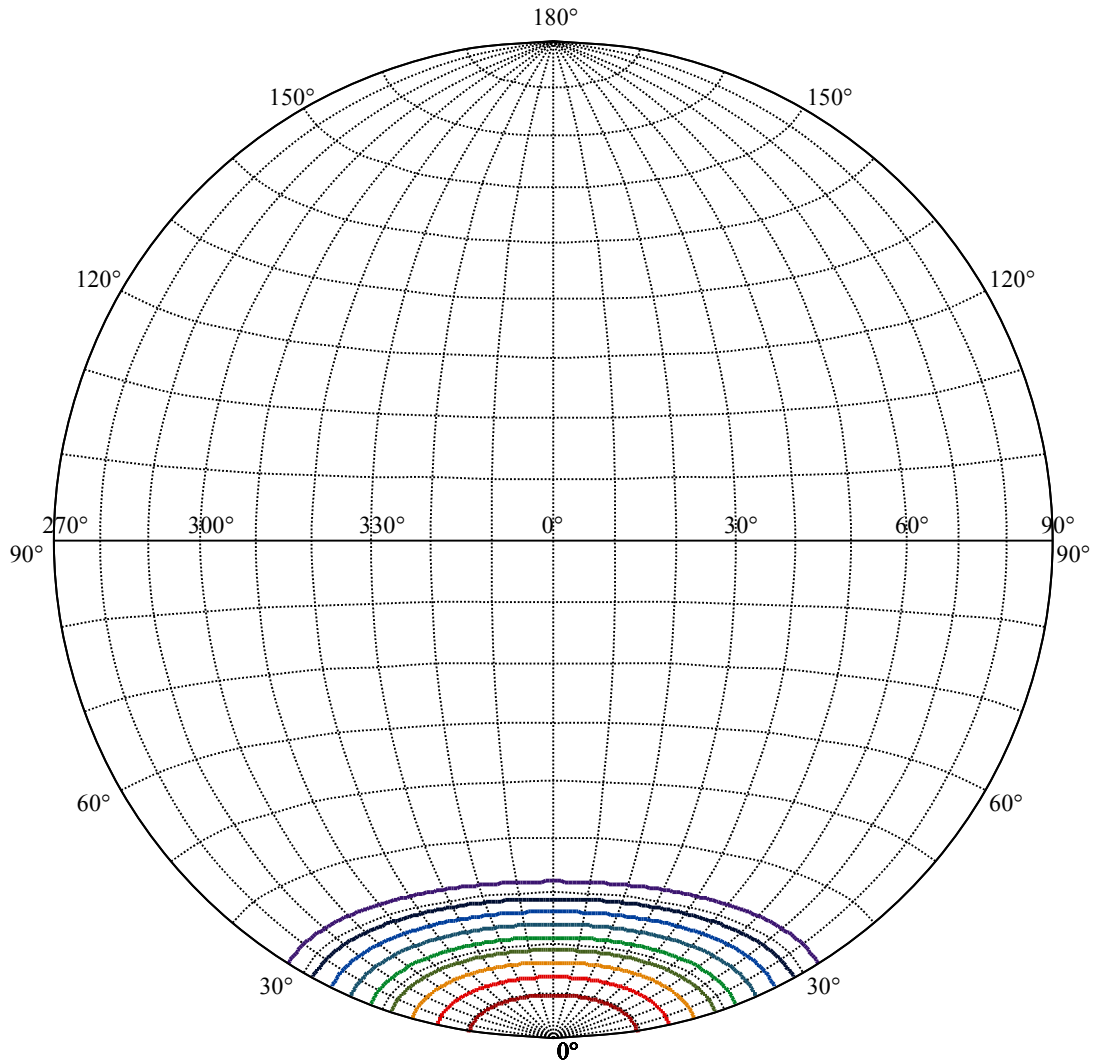
Beam Angle(50%Imax):C0/180Left:21.4 Right:21.4

:C90/270Left:21.4 Right:21.4





(10%Imax) 223.267	—
(20%Imax) 446.533	—
(30%Imax) 669.8	—
(40%Imax) 893.067	—
(50%Imax) 1116.33	—
(60%Imax) 1339.6	—
(70%Imax) 1562.87	—
(80%Imax) 1786.13	—
(90%Imax) 2009.4	—



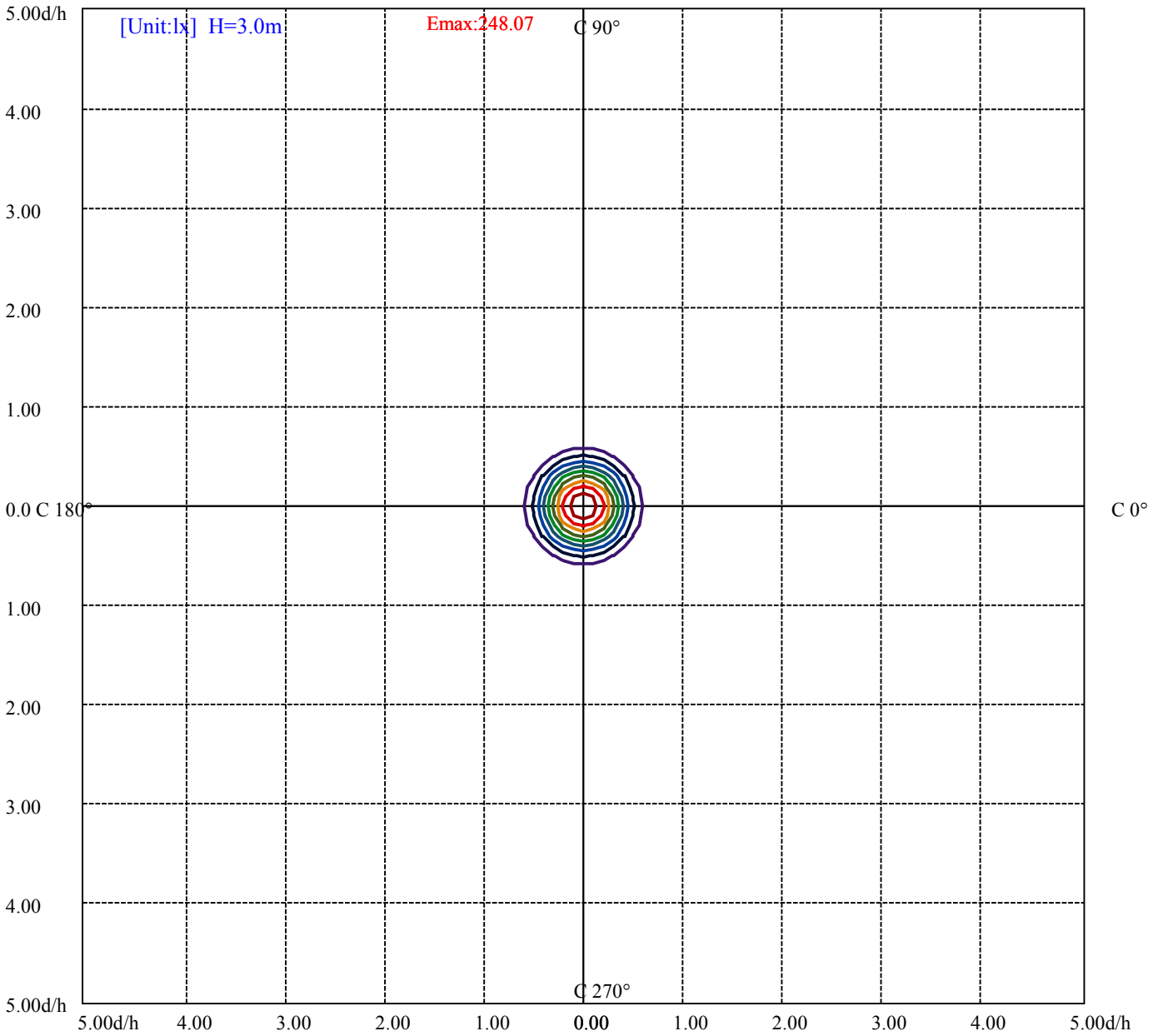
House

[Unit:cd]

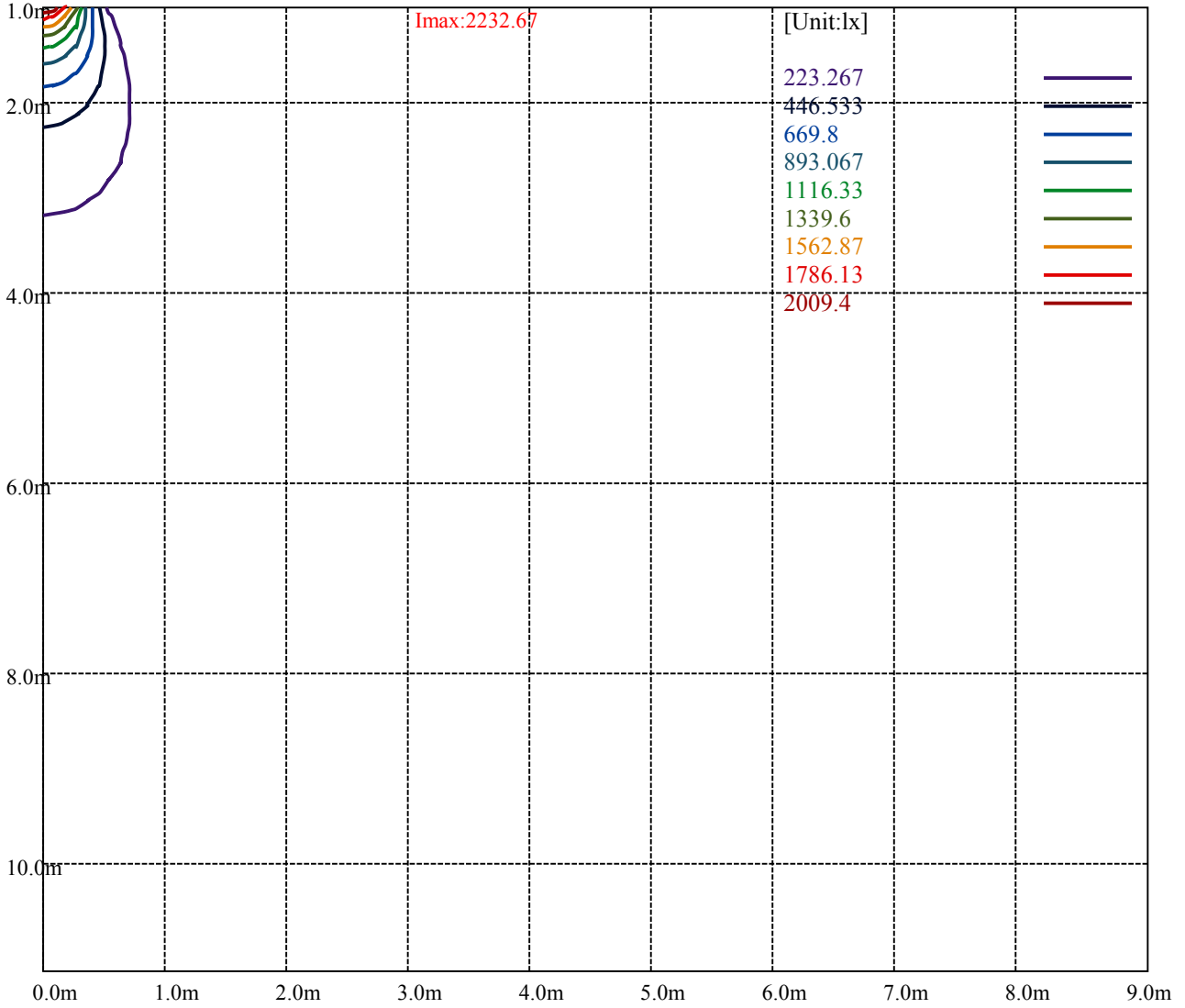
Road

Imax:2232.67

(10%Imax) 223.267	—
(20%Imax) 446.533	—
(30%Imax) 669.8	—
(40%Imax) 893.067	—
(50%Imax) 1116.33	—
(60%Imax) 1339.6	—
(70%Imax) 1562.87	—
(80%Imax) 1786.13	—
(90%Imax) 2009.4	—



- (10%Emax) 24.80744
- (20%Emax) 49.61478
- (30%Emax) 74.42222
- (40%Emax) 99.22955
- (50%Emax) 124.0367
- (60%Emax) 148.8444
- (70%Emax) 173.6522
- (80%Emax) 198.4589
- (90%Emax) 223.2667



Luminance Table

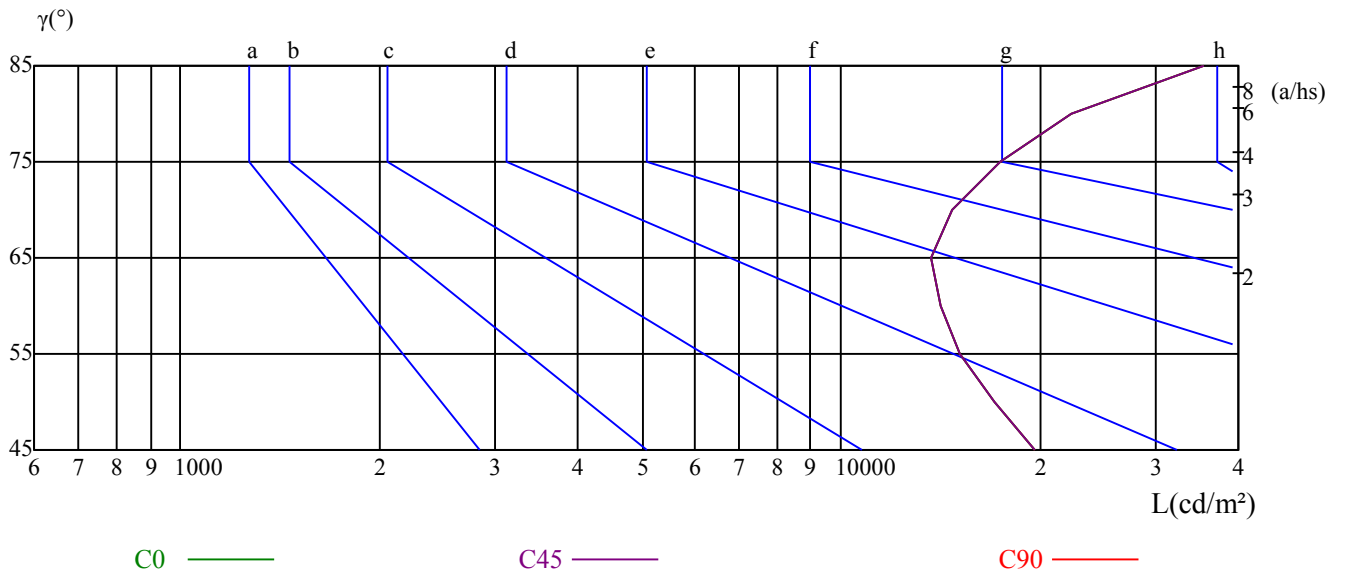
γ	45	50	55	60	65	70	75	80	85
C0	19703	17043	15142	14155	13716	14728	17402	22262	35410
C45	19703	17043	15142	14155	13716	14728	17402	22262	35410
C90	19703	17043	15142	14155	13716	14728	17402	22262	35410

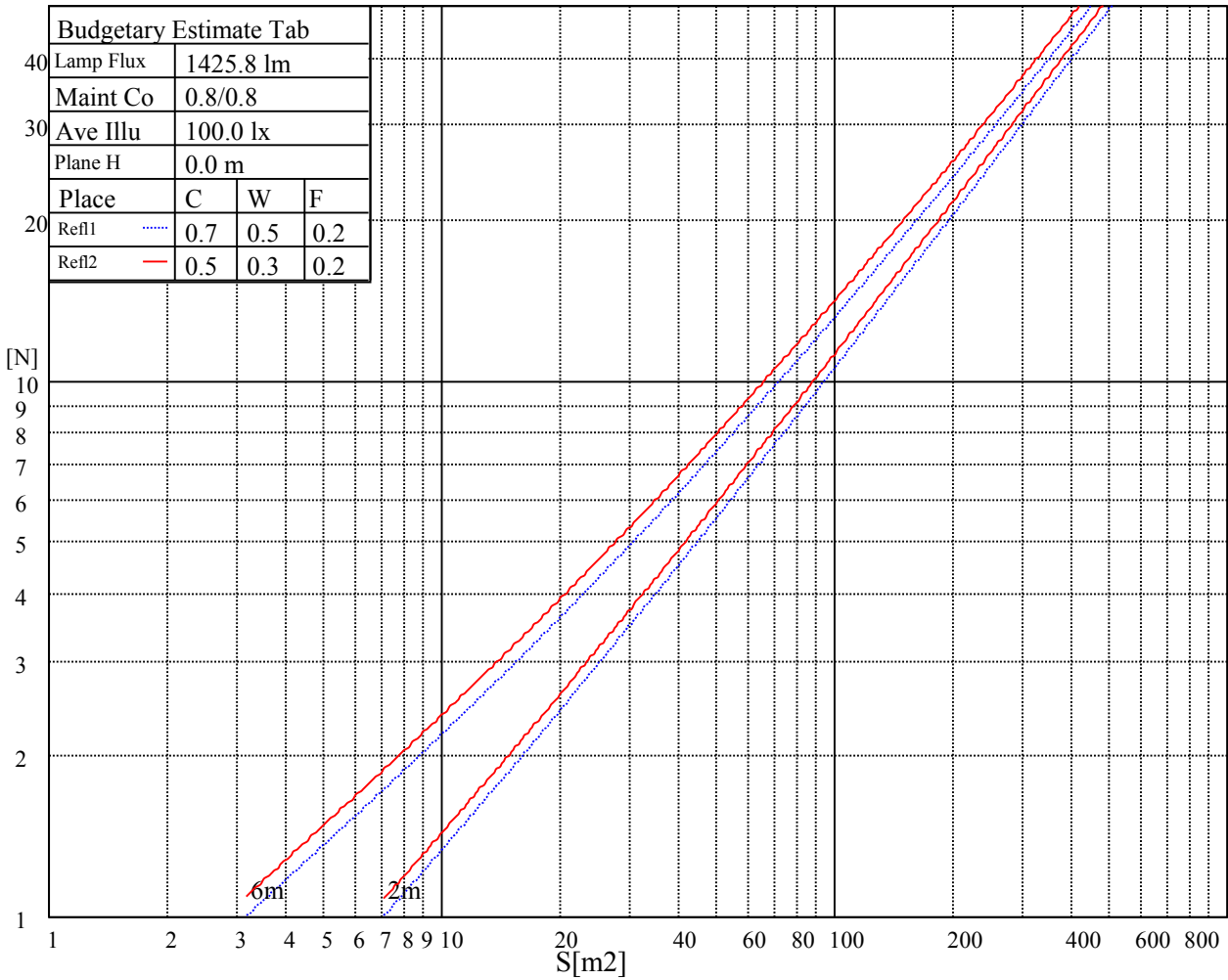
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
13716	13716	13716	17402	17402	17402	35410	35410	35410

Glare Table

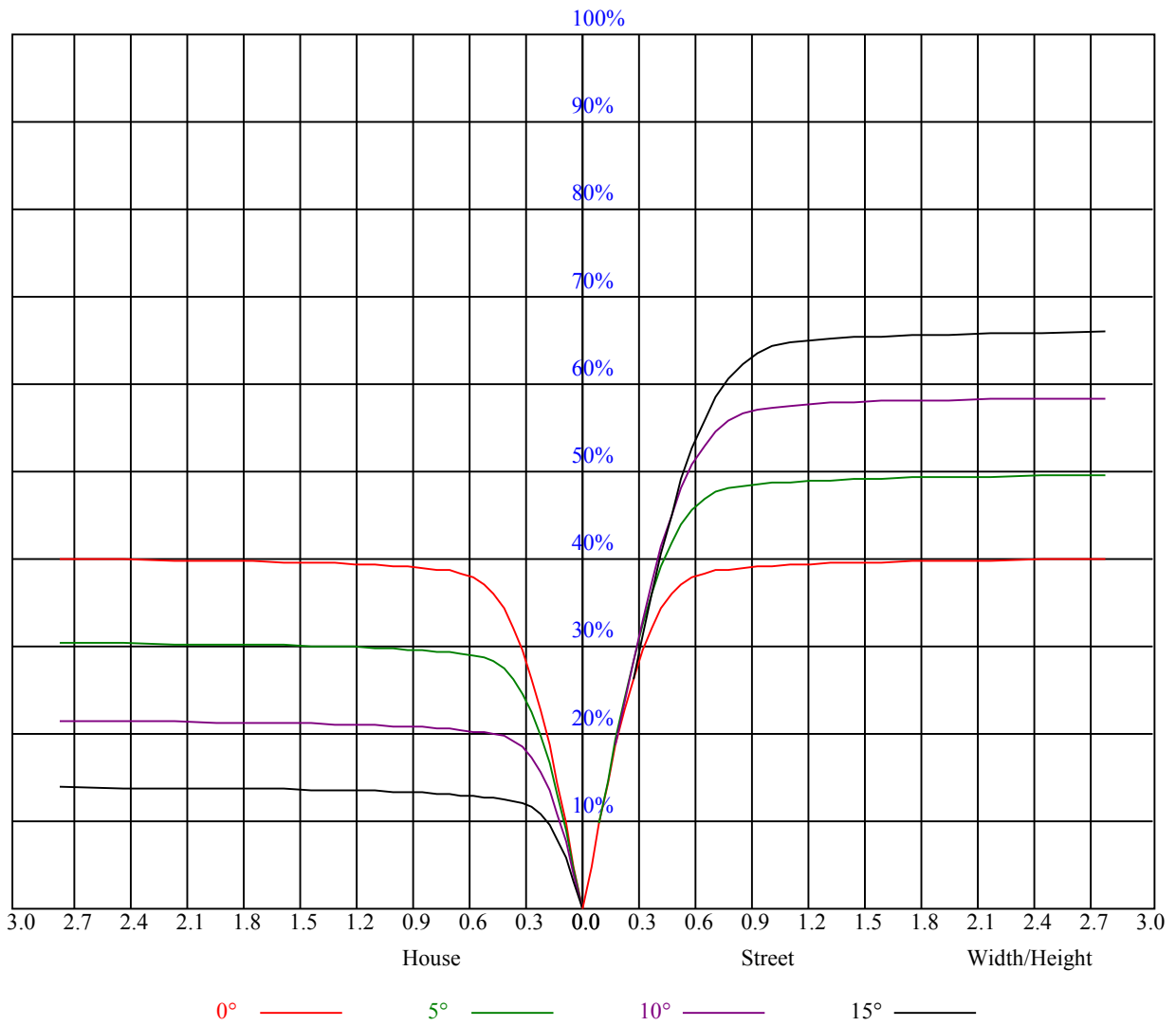
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.97	0.97	0.97	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.83	0.83	0.83	0.81
1	0.90	0.88	0.87	0.89	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.76
2	0.85	0.82	0.79	0.83	0.81	0.78	0.81	0.79	0.77	0.78	0.77	0.75	0.76	0.75	0.73	0.72
3	0.80	0.76	0.73	0.79	0.76	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.73	0.71	0.70	0.68
4	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.65
5	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.68	0.66	0.63	0.67	0.65	0.63	0.62
6	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.49



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	2222.21	2213.25	2096.13	1820.67	1453.19	991.90	501.92	95.37	40.99
45.0	2243.12	2179.19	2001.72	1689.21	1270.94	779.78	314.30	60.35	34.18
90.0	2231.77	2139.15	1915.08	1582.85	1135.01	618.68	203.88	51.45	32.33
135.0	2233.56	2152.90	1969.46	1639.62	1216.57	742.13	320.28	56.41	33.88
180.0	2222.21	2123.02	1882.22	1551.78	1104.89	605.83	176.09	49.12	31.85
225.0	2243.12	2173.81	2007.10	1683.84	1183.65	824.29	332.35	64.11	36.81
270.0	2231.77	2205.48	2066.26	1796.77	1407.78	947.68	455.91	81.02	39.62
315.0	2233.56	2193.53	2046.54	1740.60	1172.29	891.81	389.47	70.21	36.93
360.0	2222.21	2213.25	2096.13	1820.67	1453.19	991.90	501.92	95.37	40.99
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	27.90	21.69	17.39	13.98	11.29	9.68	8.60	7.59	6.09
45.0	25.16	19.96	15.77	13.03	10.52	9.14	8.13	7.05	5.50
90.0	24.14	19.06	15.06	12.31	10.16	8.96	8.01	6.75	5.44
135.0	24.98	19.66	15.48	12.67	10.46	9.08	8.19	6.87	5.56
180.0	23.54	18.82	14.82	11.89	10.10	8.96	8.01	6.69	5.32
225.0	26.23	20.55	16.31	13.32	10.88	9.44	8.48	7.29	5.92
270.0	27.43	21.45	17.03	13.92	11.29	9.80	8.72	7.65	6.04
315.0	26.71	20.85	16.61	13.56	11.05	9.44	8.48	7.29	5.80
360.0	27.90	21.69	17.39	13.98	11.29	9.68	8.60	7.59	6.09
C/γ(°)	90.0								
0.0	5.14								
45.0	4.96								
90.0	4.96								
135.0	4.96								
180.0	4.96								
225.0	5.02								
270.0	5.02								
315.0	5.02								
360.0	5.14								