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Nata

LumCAT: 1658-S
Luminaire: 92.70.124.00
Report No: NATA0100
Test No: GC2018072822
LampCAT: BRIDGELUX V6HD
Lamp flux(lm): 1105.0
Number of Lamps: 1
Length(mm): 47
Phm Type: C

Voltage(V): 36.0000
Current(A): 0.3000
Power (W): 10.8000
PF: 0.0000
Ballast type: DC
Width(mm): 47
Height(mm): 0

Photometric Results

Lumens(lm): 976.22
Efficiency(%): 88.35%
Lumens(lm)/Power(W): 91.84
Central intensity(cd): 2782.000
Maximum intensity(cd): 2782.000
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=29.6
 [C90/270]Total=29.6
Field angle(10%Imax): [C0/180]Total=63.3
 [C90/270]Total=63.3
Maximum s/h(1/2): C0_180=0.49 C90_270=0.49
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.77%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.123%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/7/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

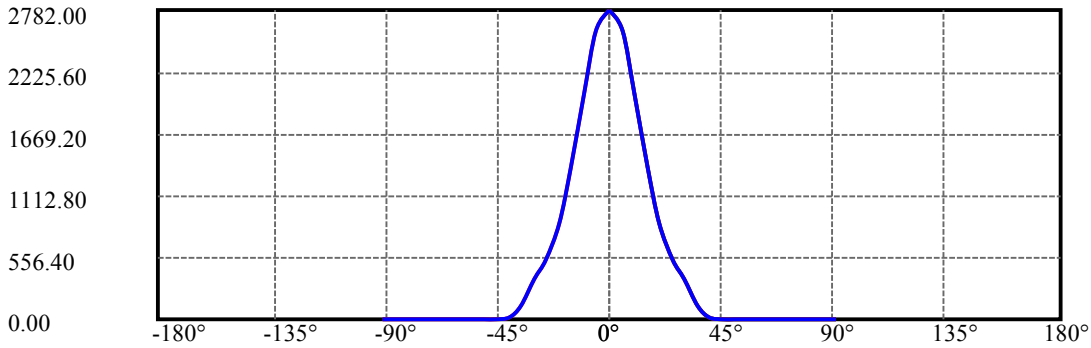
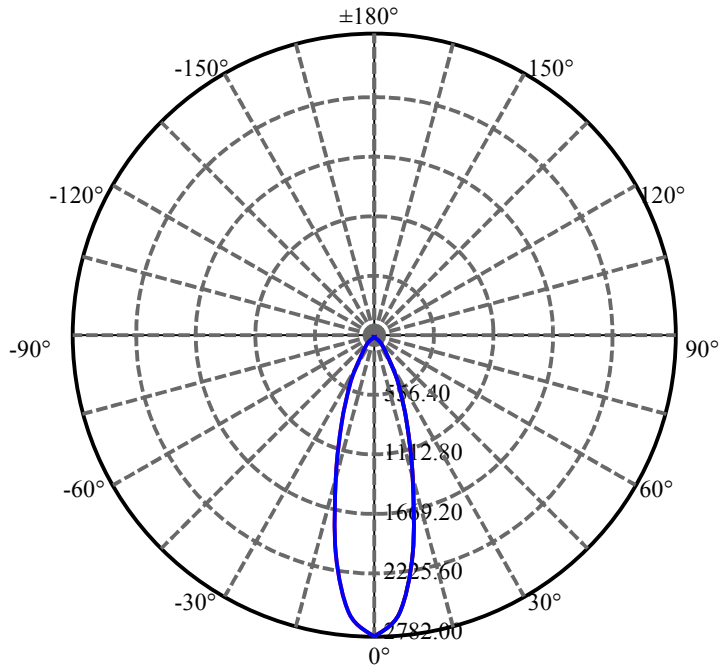
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2782.000	16.637	16.637	1.506%	1.704%
5.0	2587.444	123.611	140.248	11.186%	14.366%
10.0	2047.548	194.892	335.14	17.637%	34.330%
15.0	1364.759	193.616	528.756	17.522%	54.164%
20.0	867.386	162.612	691.368	14.716%	70.821%
25.0	532.299	123.309	814.677	11.159%	83.452%
30.0	360.200	98.719	913.396	8.934%	93.565%
35.0	115.378	36.275	949.671	3.283%	97.281%
40.0	13.592	4.789	954.46	.433%	97.771%
45.0	5.919	2.294	956.754	.208%	98.006%
50.0	5.258	2.208	958.961	.200%	98.232%
55.0	4.900	2.200	961.162	.199%	98.458%
60.0	4.687	2.225	963.386	.201%	98.686%
65.0	4.549	2.260	965.646	.205%	98.917%
70.0	4.446	2.290	967.936	.207%	99.152%
75.0	4.411	2.336	970.272	.211%	99.391%
80.0	4.384	2.366	972.638	.214%	99.633%
85.0	4.363	2.383	975.021	.216%	99.877%
90.0	4.370	1.198	976.218	.108%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	913.40	82.66%	93.56%
0-40	954.46	86.38%	97.77%
0-60	963.39	87.18%	98.69%
0-90	975.02	88.24%	99.88%
0-120	975.02	88.24%	99.88%
0-180	976.22	88.35%	100.00%
60-90	13.86	1.25%	1.42%
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%
0-23.63	780.97	70.68%	80.00%

ZONAL LUMEN SUMMARY

0-10	335.14
10-20	356.23
20-30	222.03
30-40	41.06
40-50	4.50
50-60	4.42
60-70	4.55
70-80	4.70
80-90	2.38
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: —————

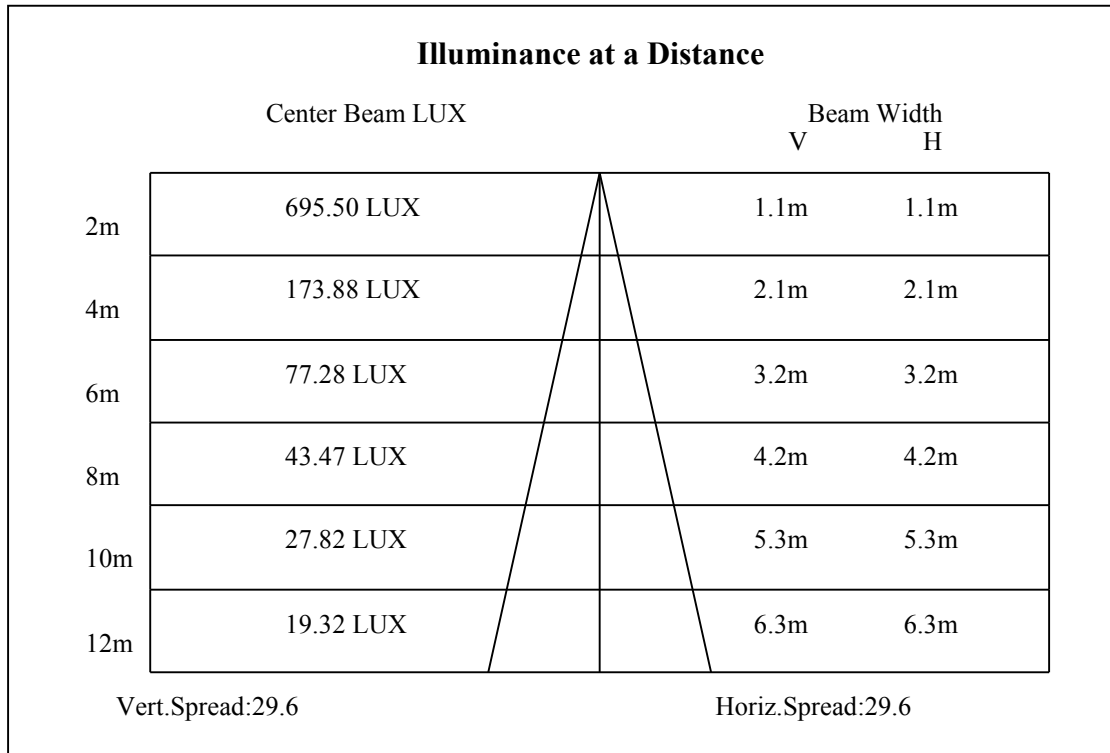
C90/C270: —————

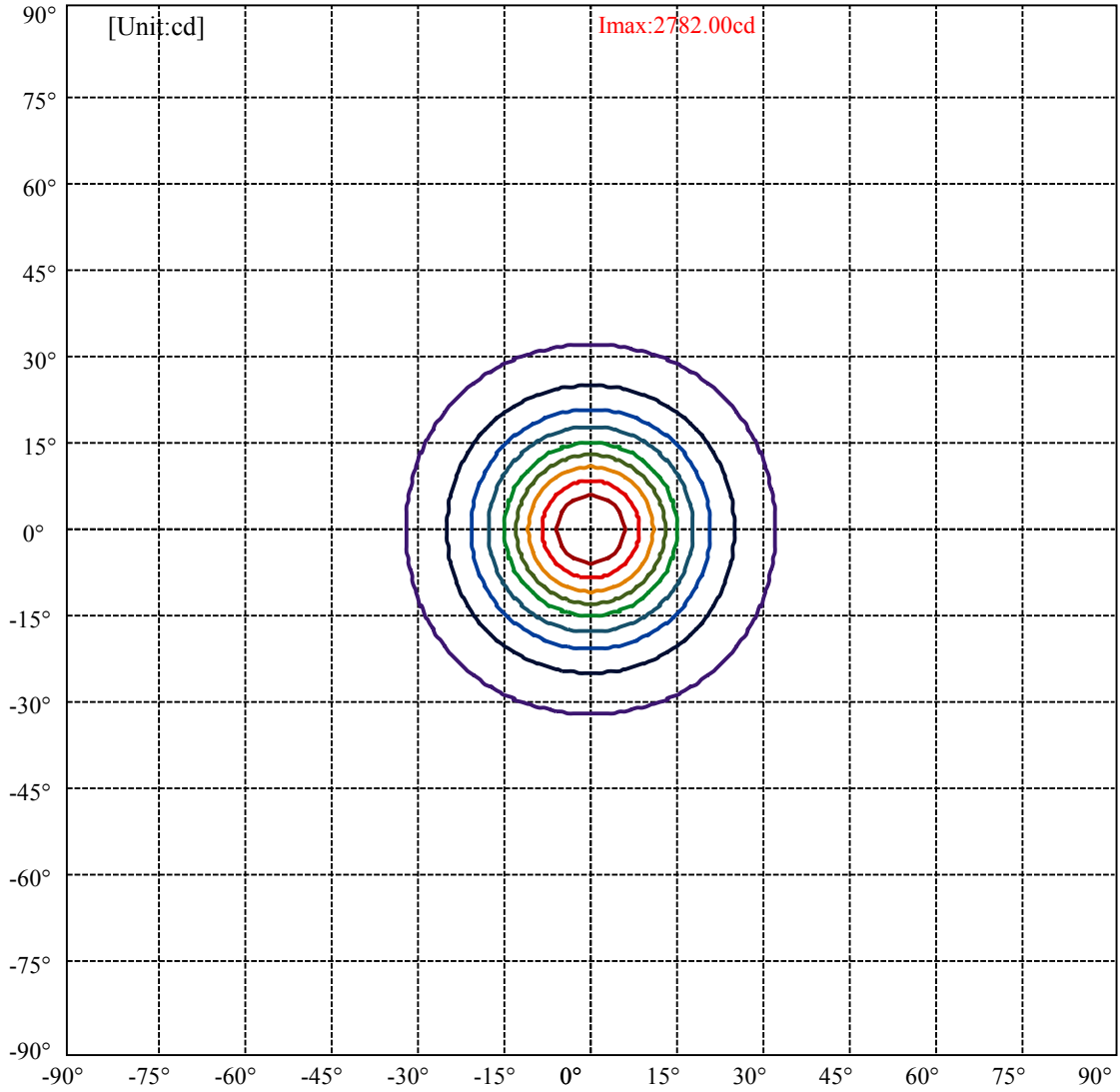
Field angle(10%Imax):C0/180Left:31.7 Right:31.7

:C90/270Left:31.7 Right:31.7

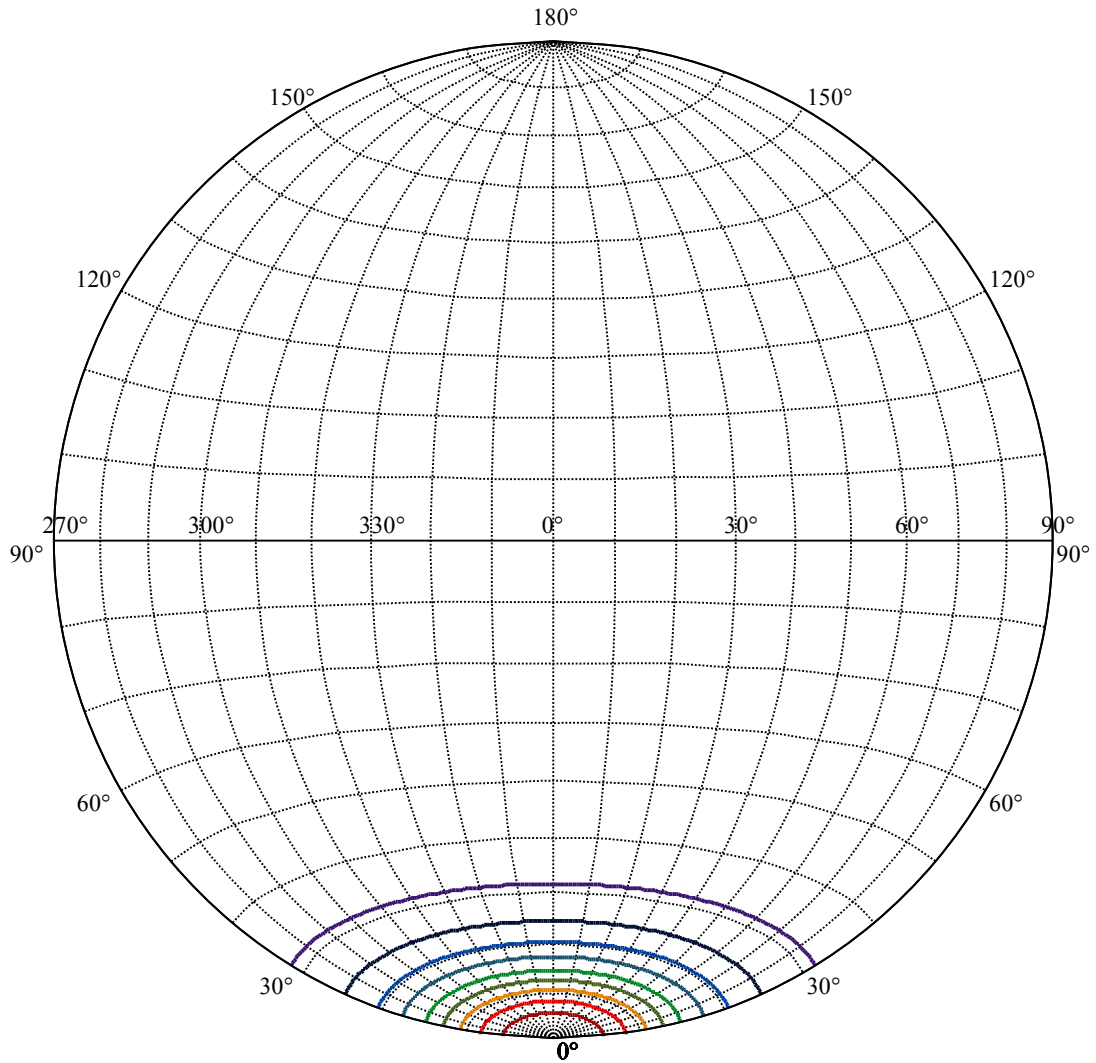
Beam Angle(50%Imax):C0/180Left:14.8 Right:14.8

:C90/270Left:14.8 Right:14.8





(10%Imax) 278.2	—
(20%Imax) 556.4	—
(30%Imax) 834.6	—
(40%Imax) 1112.8	—
(50%Imax) 1391	—
(60%Imax) 1669.2	—
(70%Imax) 1947.4	—
(80%Imax) 2225.6	—
(90%Imax) 2503.8	—



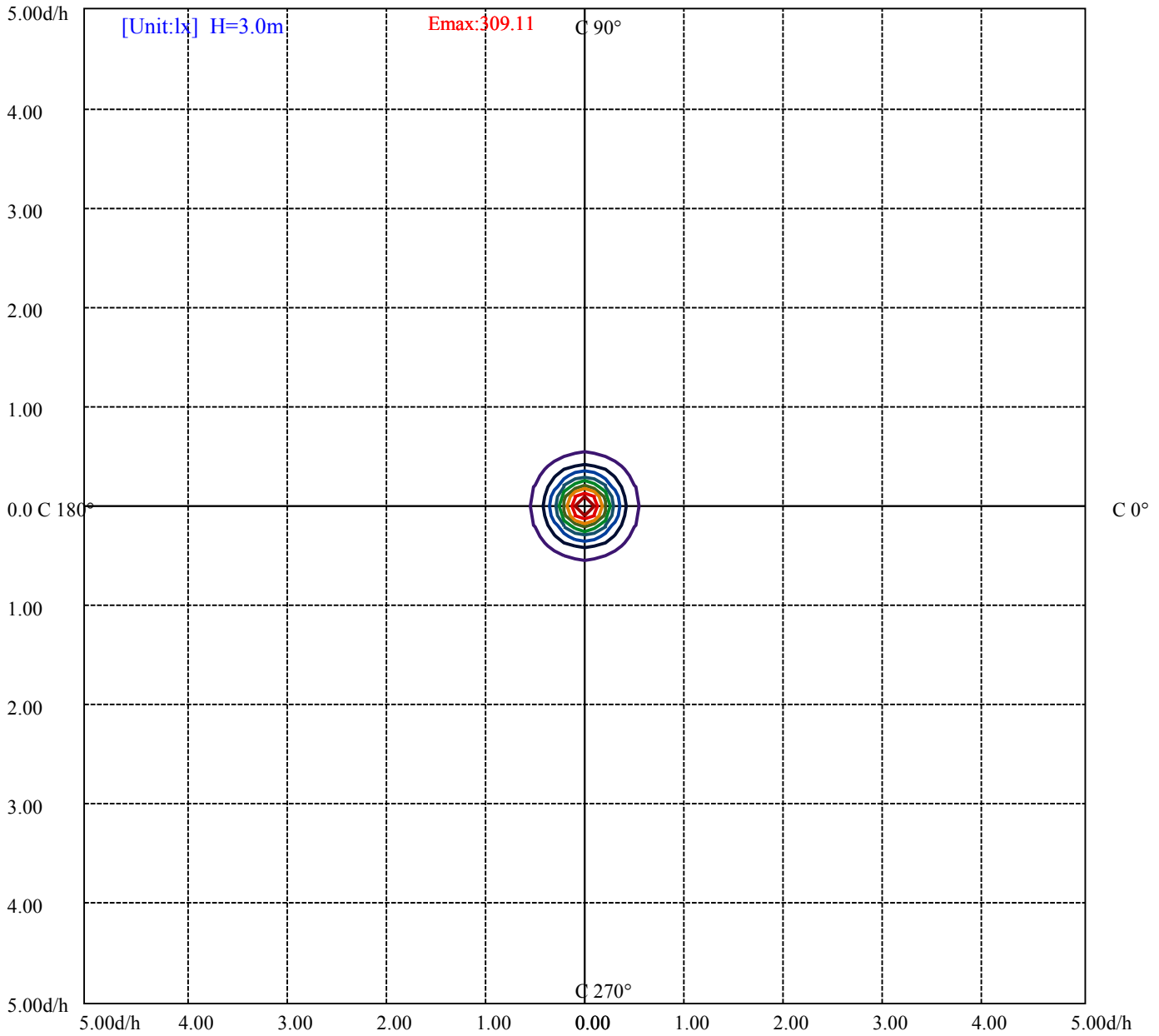
House

[Unit:cd]

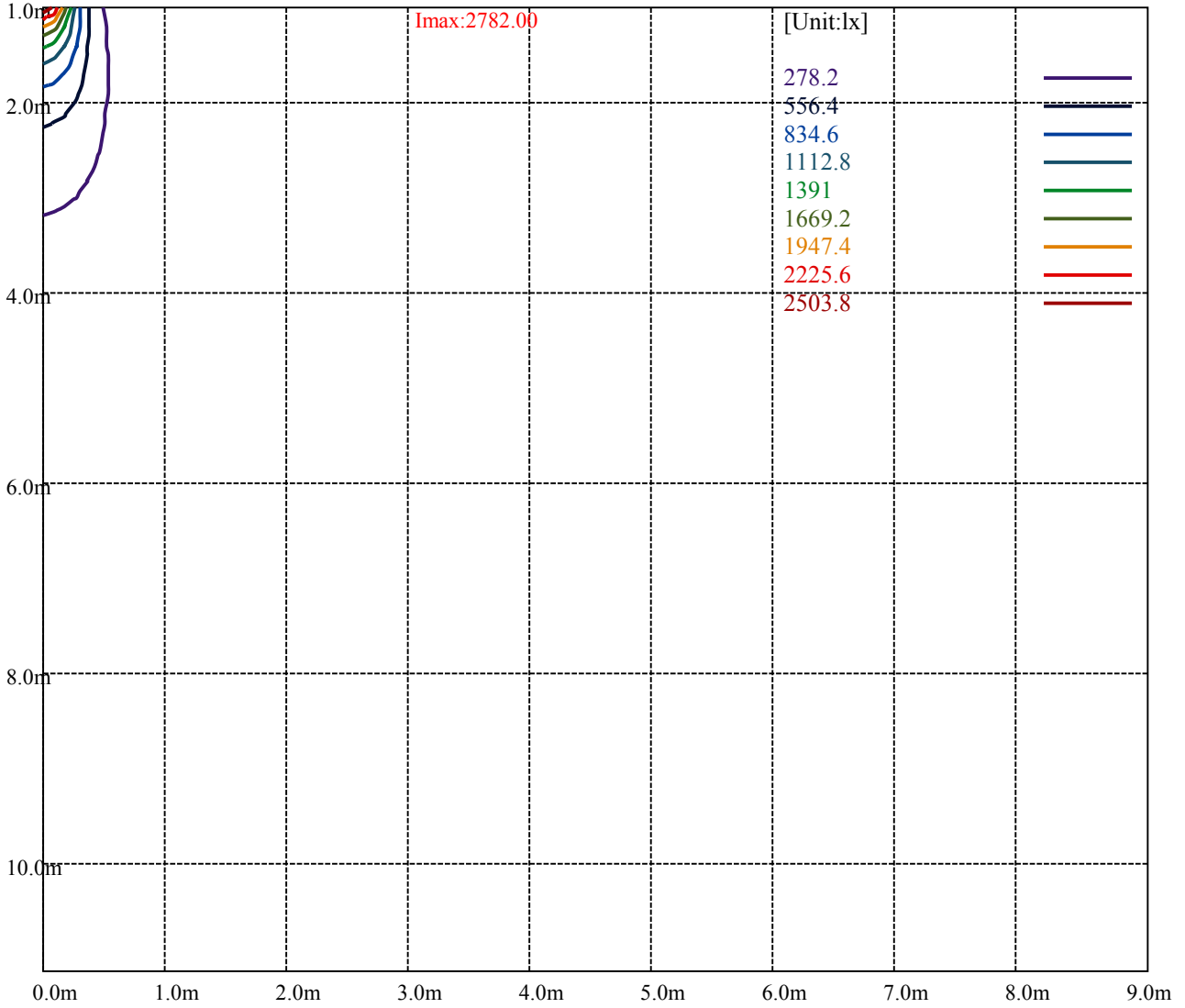
Road

I_{max}:2782.00

(10%I _{max})	278.2	—
(20%I _{max})	556.4	—
(30%I _{max})	834.6	—
(40%I _{max})	1112.8	—
(50%I _{max})	1391	—
(60%I _{max})	1669.2	—
(70%I _{max})	1947.4	—
(80%I _{max})	2225.6	—
(90%I _{max})	2503.8	—



- (10%Emax) 30.911
- (20%Emax) 61.82211
- (30%Emax) 92.73312
- (40%Emax) 123.6444
- (50%Emax) 154.5556
- (60%Emax) 185.4667
- (70%Emax) 216.3778
- (80%Emax) 247.2889
- (90%Emax) 278.1989



Luminance Table

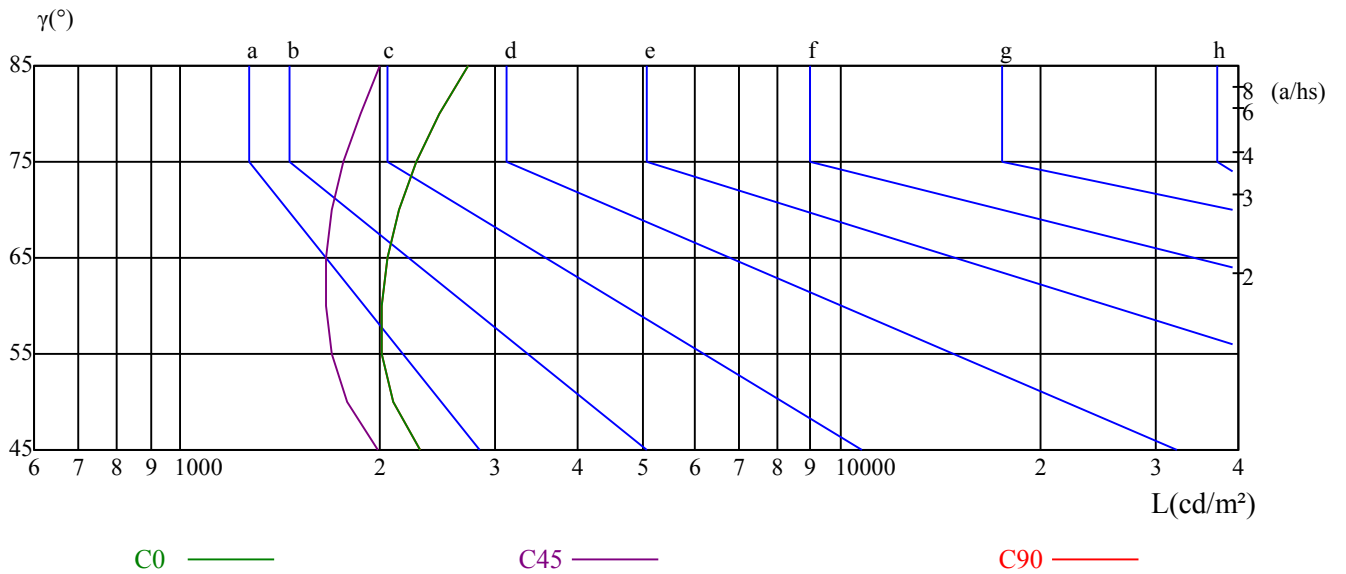
γ	45	50	55	60	65	70	75	80	85
C0	2313	2103	2023	2015	2057	2137	2281	2474	2732
C45	1991	1784	1689	1655	1660	1691	1766	1868	2002
C90	2313	2103	2023	2015	2057	2137	2281	2474	2732

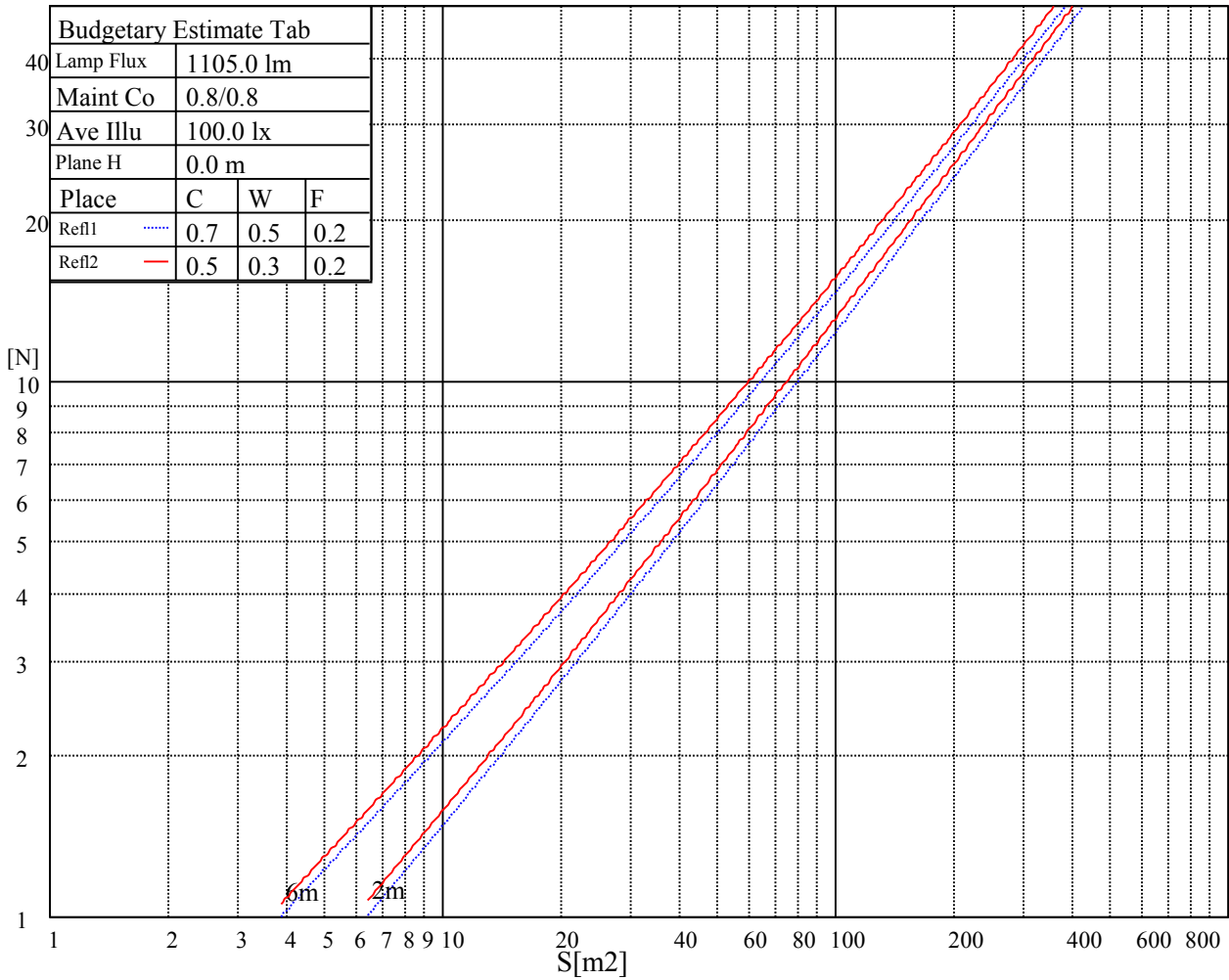
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4873	4873	4873	7716	7716	7716	22663	22663	22663

Glare Table

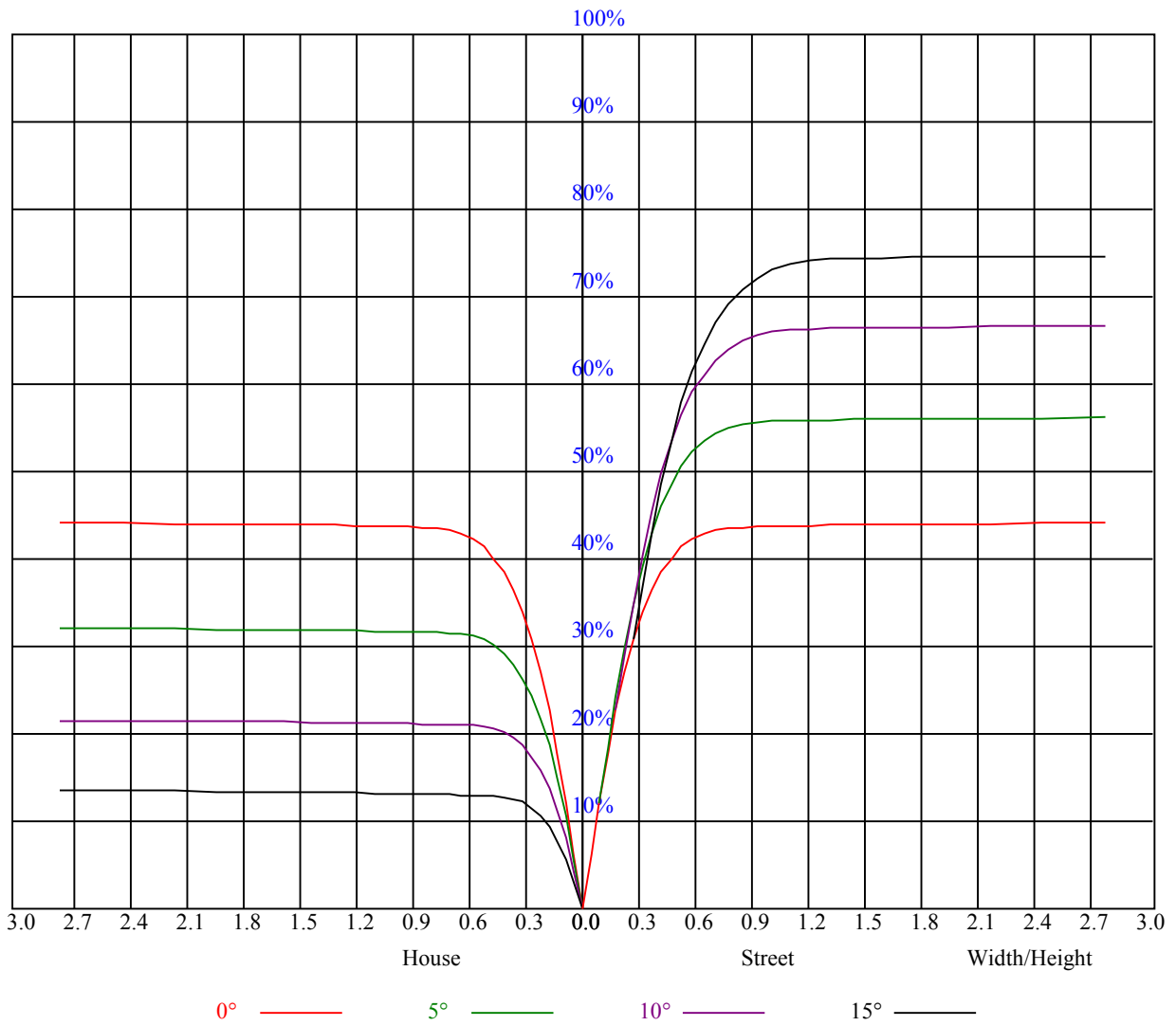
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.92	0.92	0.92	0.90
1	0.99	0.96	0.94	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.83
2	0.94	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.89	0.85	0.82	0.88	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.79	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
5	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.65
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	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	2766.58	2696.66	2244.10	1610.95	1036.16	619.94	434.39	289.60	17.51
45.0	2783.65	2660.33	2203.36	1558.10	996.52	611.13	425.04	202.66	17.34
90.0	2786.95	2575.54	2022.77	1424.31	879.97	525.90	373.78	96.29	13.98
135.0	2790.81	2586.55	2074.53	1411.10	878.70	513.68	359.52	105.38	13.98
180.0	2766.58	2449.46	1848.24	1091.22	676.04	450.25	277.32	32.48	10.02
225.0	2783.65	2501.76	1909.91	1087.75	748.22	475.85	302.31	39.97	10.24
270.0	2786.95	2622.89	2057.46	1384.67	861.63	535.15	360.07	74.66	12.88
315.0	2790.81	2606.37	2020.02	1349.98	861.85	526.50	349.17	81.98	12.77
360.0	2766.58	2696.66	2244.10	1610.95	1036.16	619.94	434.39	289.60	17.51
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.83	5.34	4.96	4.73	4.57	4.46	4.40	4.35	4.35
45.0	6.17	5.34	4.96	4.73	4.62	4.51	4.46	4.46	4.40
90.0	5.84	5.29	4.90	4.68	4.51	4.40	4.40	4.35	4.35
135.0	5.84	5.34	4.90	4.68	4.57	4.46	4.40	4.35	4.35
180.0	5.62	5.18	4.84	4.62	4.51	4.40	4.35	4.35	4.35
225.0	5.62	5.18	4.90	4.73	4.57	4.46	4.46	4.46	4.40
270.0	5.73	5.23	4.90	4.68	4.57	4.46	4.40	4.40	4.35
315.0	5.73	5.18	4.84	4.62	4.46	4.40	4.40	4.35	4.35
360.0	6.83	5.34	4.96	4.73	4.57	4.46	4.40	4.35	4.35
C/ γ (°)	90.0								
0.0	4.35								
45.0	4.40								
90.0	4.40								
135.0	4.35								
180.0	4.35								
225.0	4.40								
270.0	4.35								
315.0	4.35								
360.0	4.35								