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NATA

LumCAT: CR01D06336BG
Luminaire: 92.70.185.00
Report No: NATA0100
Test No: GC2018123012
LampCAT: CREE CXA1512
Lamp flux(lm): 1505.0
Number of Lamps: 1
Length(mm): 63
Phm Type: C

Voltage(V): 35.3000
Current(A): 0.3000
Power (W): 10.5900
PF: 0.0000
Ballast type: DC
Width(mm): 63
Height(mm): 0

Photometric Results

Lumens(lm): 1304.56
Efficiency(%): 86.68%
Lumens(lm)/Power(W): 124.68
Central intensity(cd): 2845.265
Maximum intensity(cd): 2845.265
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=36.2
 [C90/270]Total=36.2
Field angle(10%Imax): [C0/180]Total=59.6
 [C90/270]Total=59.6
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 92.274%

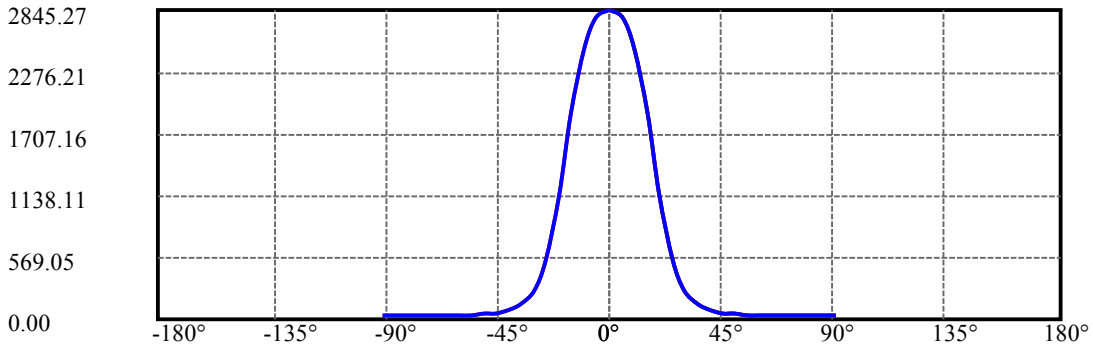
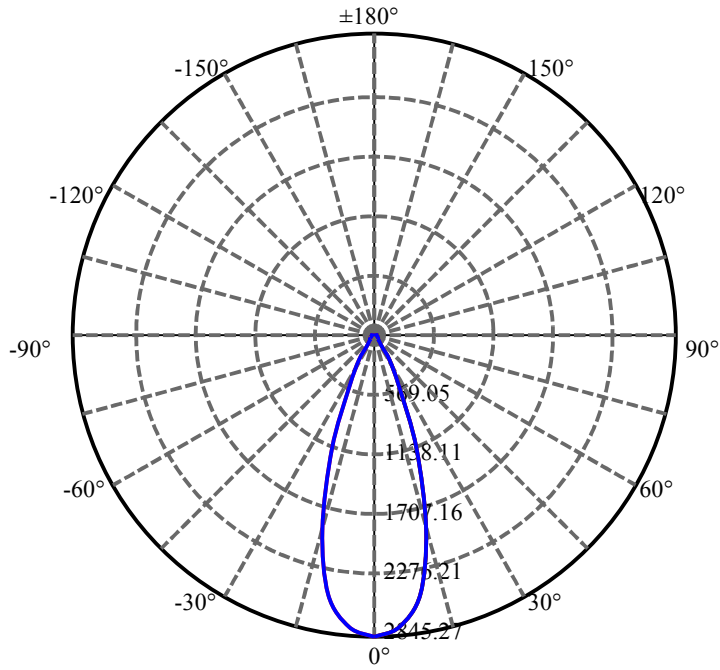
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2845.266	17.015	17.015	1.131%	1.304%
5.0	2773.547	132.502	149.517	8.804%	11.461%
10.0	2487.656	236.783	386.3	15.733%	29.611%
15.0	1886.625	267.652	653.952	17.784%	50.128%
20.0	1139.955	213.712	867.664	14.200%	66.510%
25.0	547.861	126.914	994.578	8.433%	76.238%
30.0	273.523	74.964	1069.542	4.981%	81.985%
35.0	137.503	43.231	1112.772	2.872%	85.299%
40.0	83.341	29.364	1142.137	1.951%	87.549%
45.0	55.645	21.568	1163.704	1.433%	89.203%
50.0	46.027	19.326	1183.031	1.284%	90.684%
55.0	40.212	18.055	1201.086	1.200%	92.068%
60.0	36.309	17.236	1218.322	1.145%	93.389%
65.0	32.639	16.214	1234.537	1.077%	94.632%
70.0	29.102	14.990	1249.527	.996%	95.781%
75.0	26.902	14.243	1263.77	.946%	96.873%
80.0	28.470	15.368	1279.138	1.021%	98.051%
85.0	30.255	16.521	1295.659	1.098%	99.318%
90.0	32.484	8.903	1304.562	.592%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1069.54	71.07%	81.98%
0-40	1142.14	75.89%	87.55%
0-60	1218.32	80.95%	93.39%
0-90	1295.66	86.09%	99.32%
0-120	1295.66	86.09%	99.32%
0-180	1304.56	86.68%	100.00%
60-90	94.57	6.28%	7.25%
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%
0-28.27	1043.65	69.35%	80.00%

ZONAL LUMEN SUMMARY

0-10	386.30
10-20	481.36
20-30	201.88
30-40	72.59
40-50	40.89
50-60	35.29
60-70	31.20
70-80	29.61
80-90	16.52
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: —————

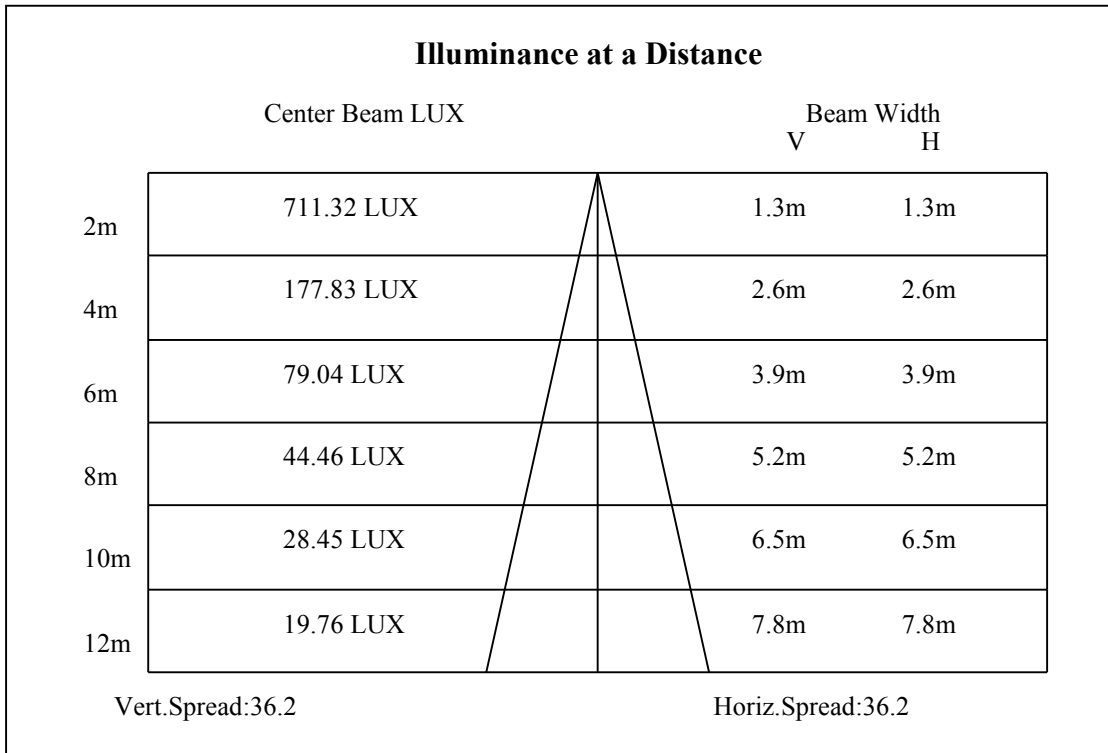
C90/C270: —————

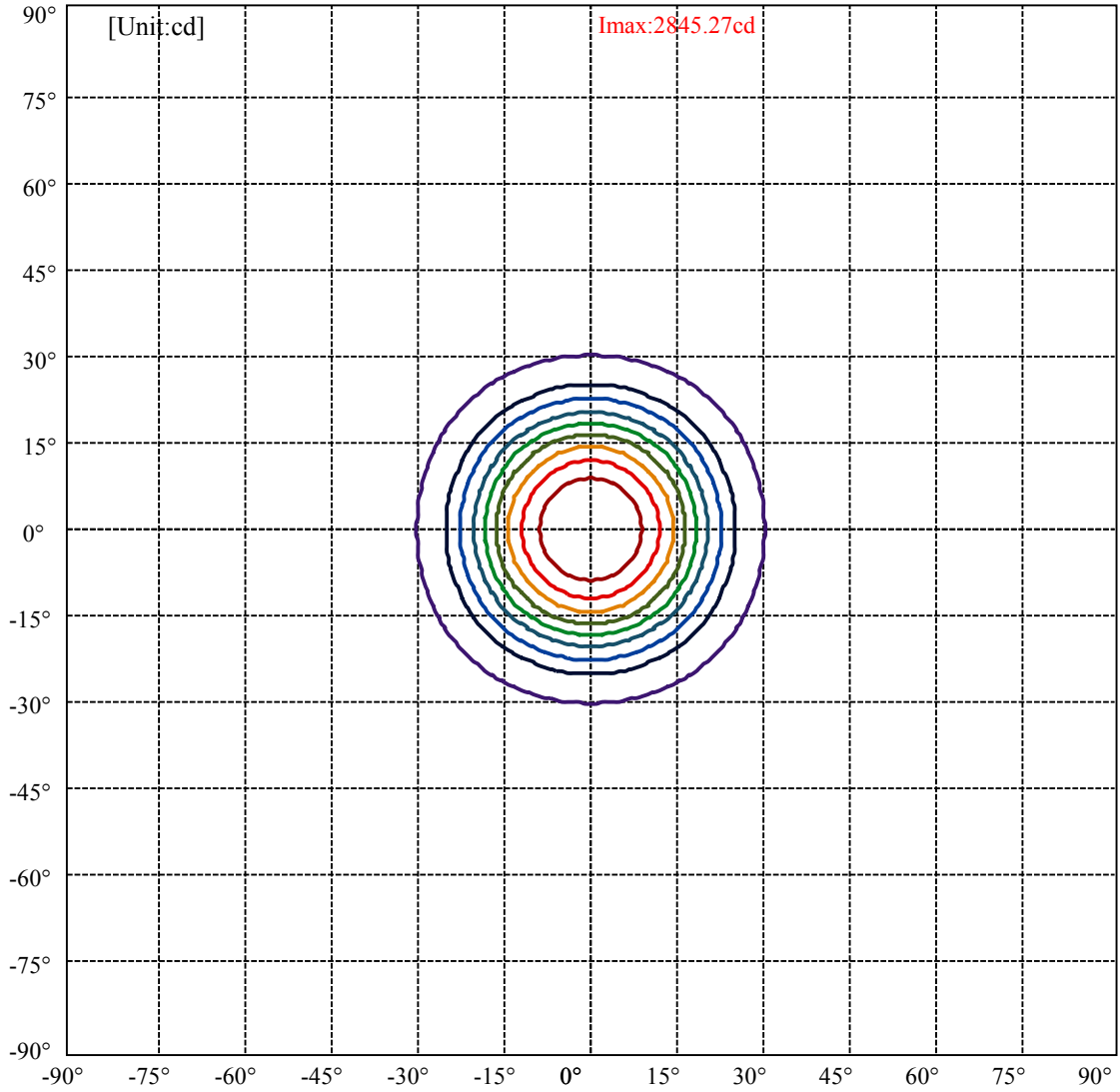
Field angle(10%Imax):C0/180Left:29.8 Right:29.8

:C90/270Left:29.8 Right:29.8

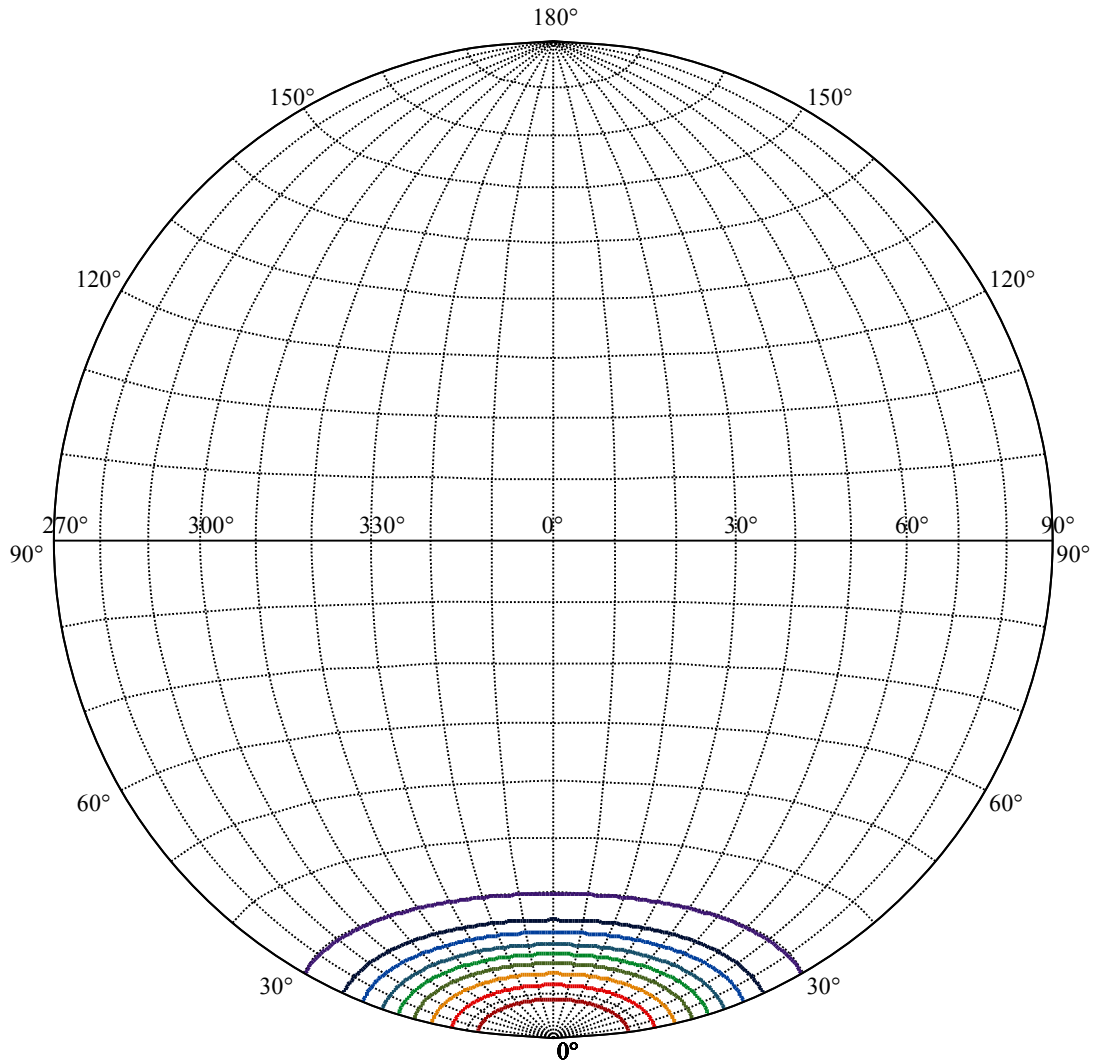
Beam Angle(50%Imax):C0/180Left:18.1 Right:18.1

:C90/270Left:18.1 Right:18.1





(10%Imax) 284.527	—
(20%Imax) 569.053	—
(30%Imax) 853.58	—
(40%Imax) 1138.11	—
(50%Imax) 1422.63	—
(60%Imax) 1707.16	—
(70%Imax) 1991.69	—
(80%Imax) 2276.21	—
(90%Imax) 2560.74	—



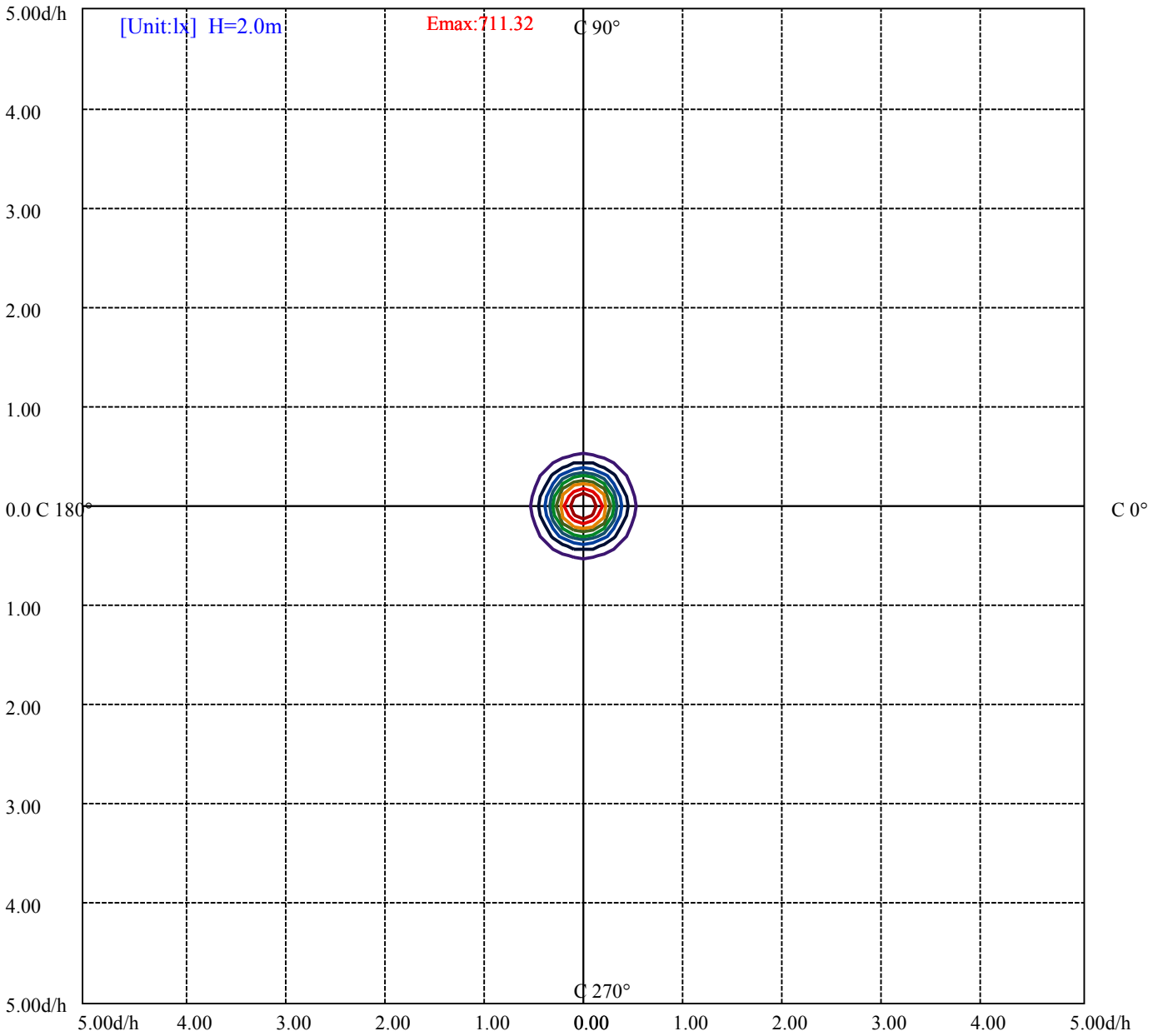
House

[Unit:cd]

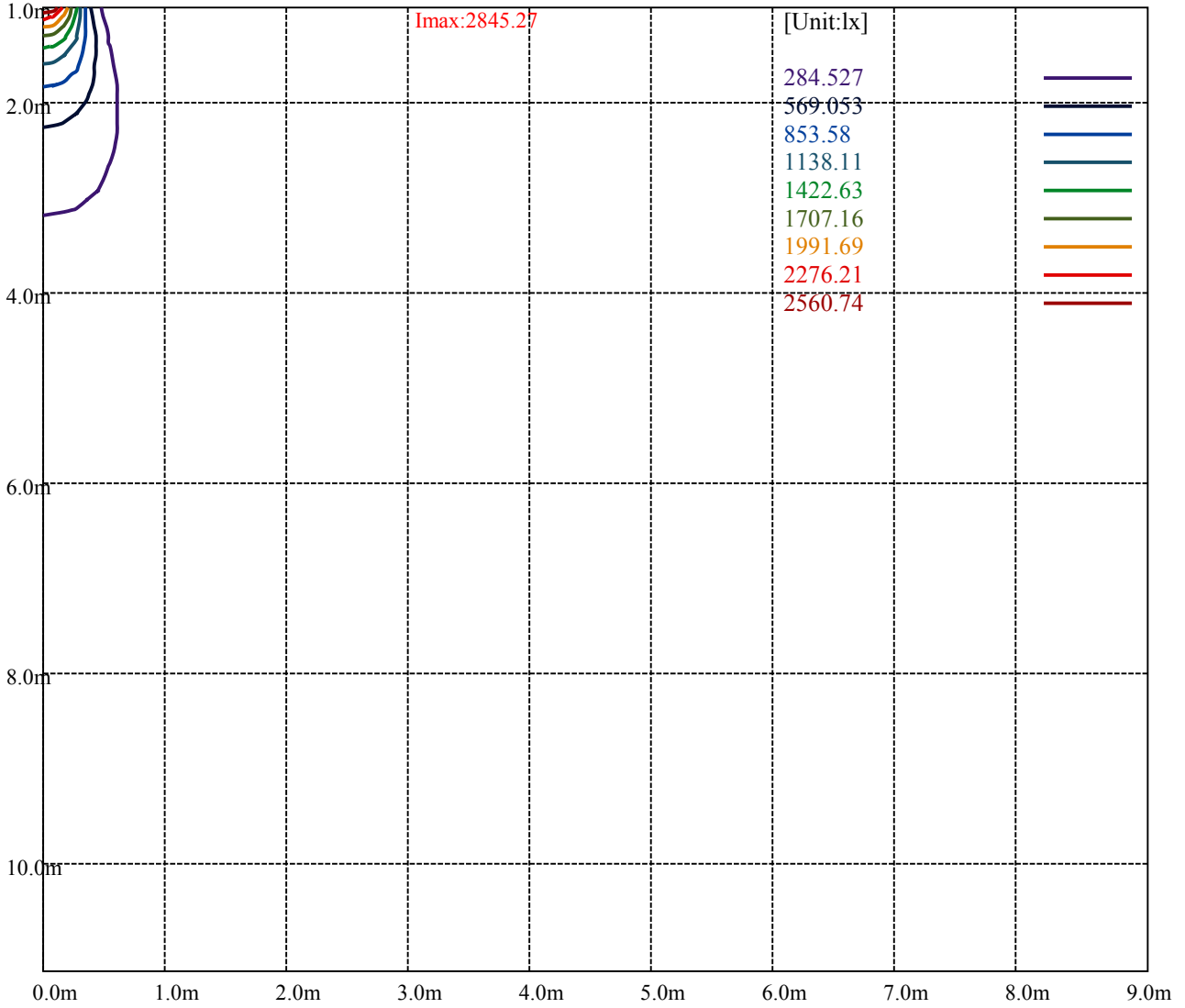
Road

Imax:2845.27

(10%Imax) 284.527	—
(20%Imax) 569.053	—
(30%Imax) 853.58	—
(40%Imax) 1138.11	—
(50%Imax) 1422.63	—
(60%Imax) 1707.16	—
(70%Imax) 1991.69	—
(80%Imax) 2276.21	—
(90%Imax) 2560.74	—



(10%Emax) 71.1315	—
(20%Emax) 142.2632	—
(30%Emax) 213.3947	—
(40%Emax) 284.5275	—
(50%Emax) 355.6575	—
(60%Emax) 426.79	—
(70%Emax) 497.92	—
(80%Emax) 569.0525	—
(90%Emax) 640.185	—



Luminance Table

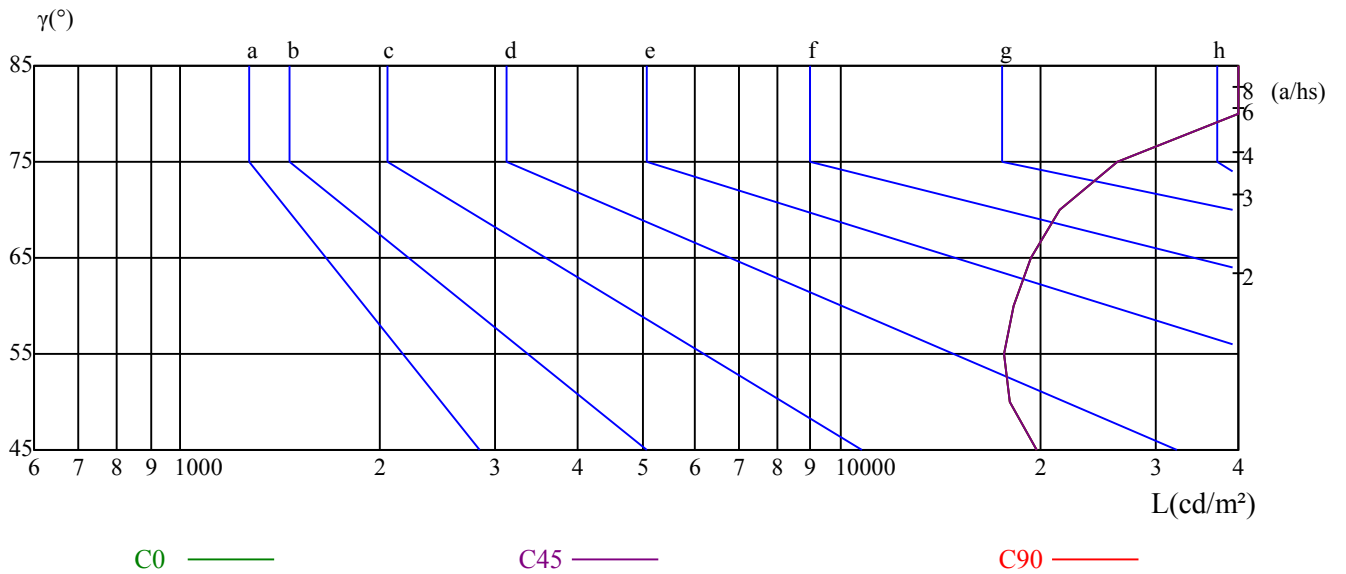
γ	45	50	55	60	65	70	75	80	85
C0	19827	18041	17664	18296	19458	21439	26188	41308	87463
C45	19827	18041	17664	18296	19458	21439	26188	41308	87463
C90	19827	18041	17664	18296	19458	21439	26188	41308	87463

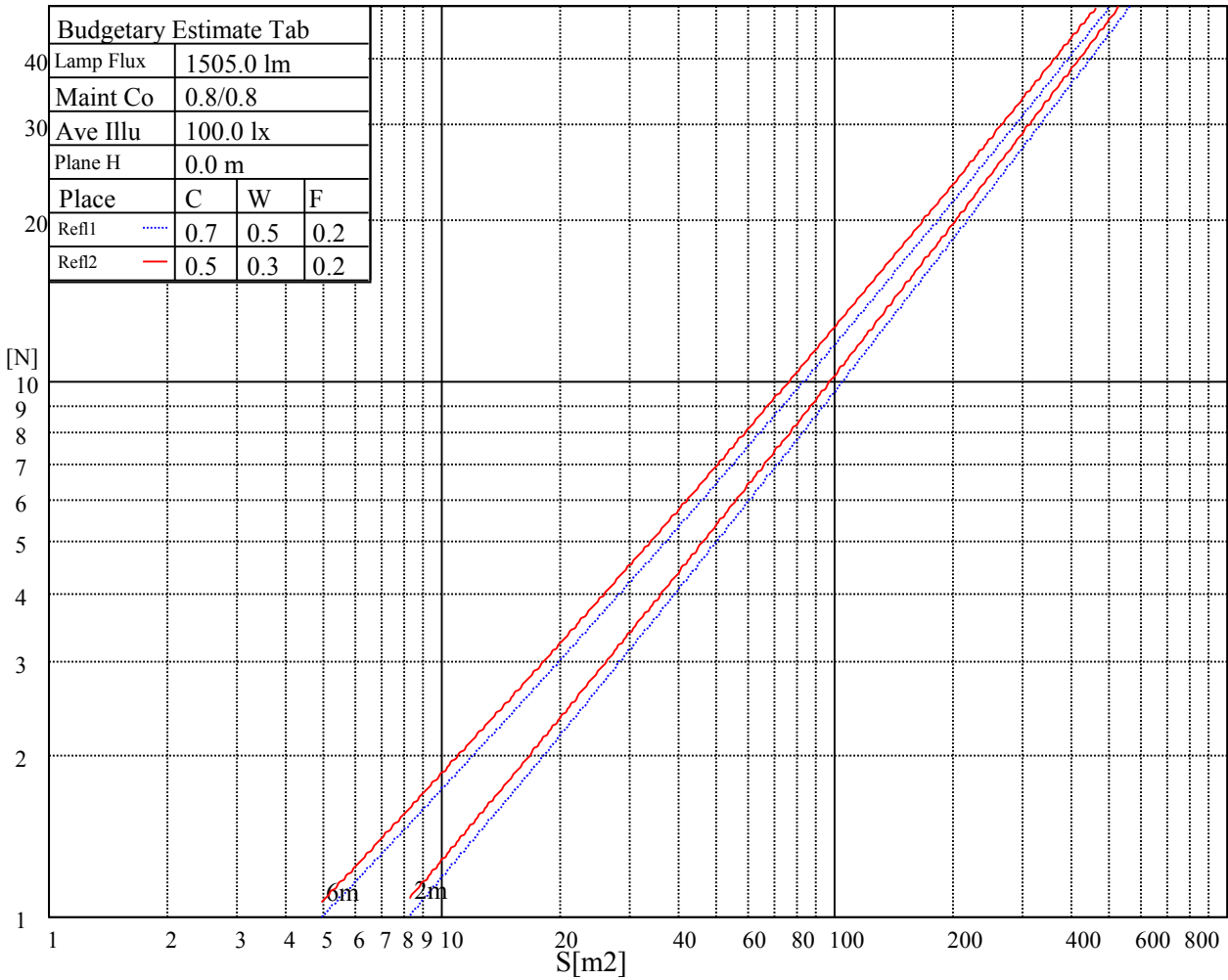
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
19458	19458	19458	26188	26188	26188	87463	87463	87463

Glare Table

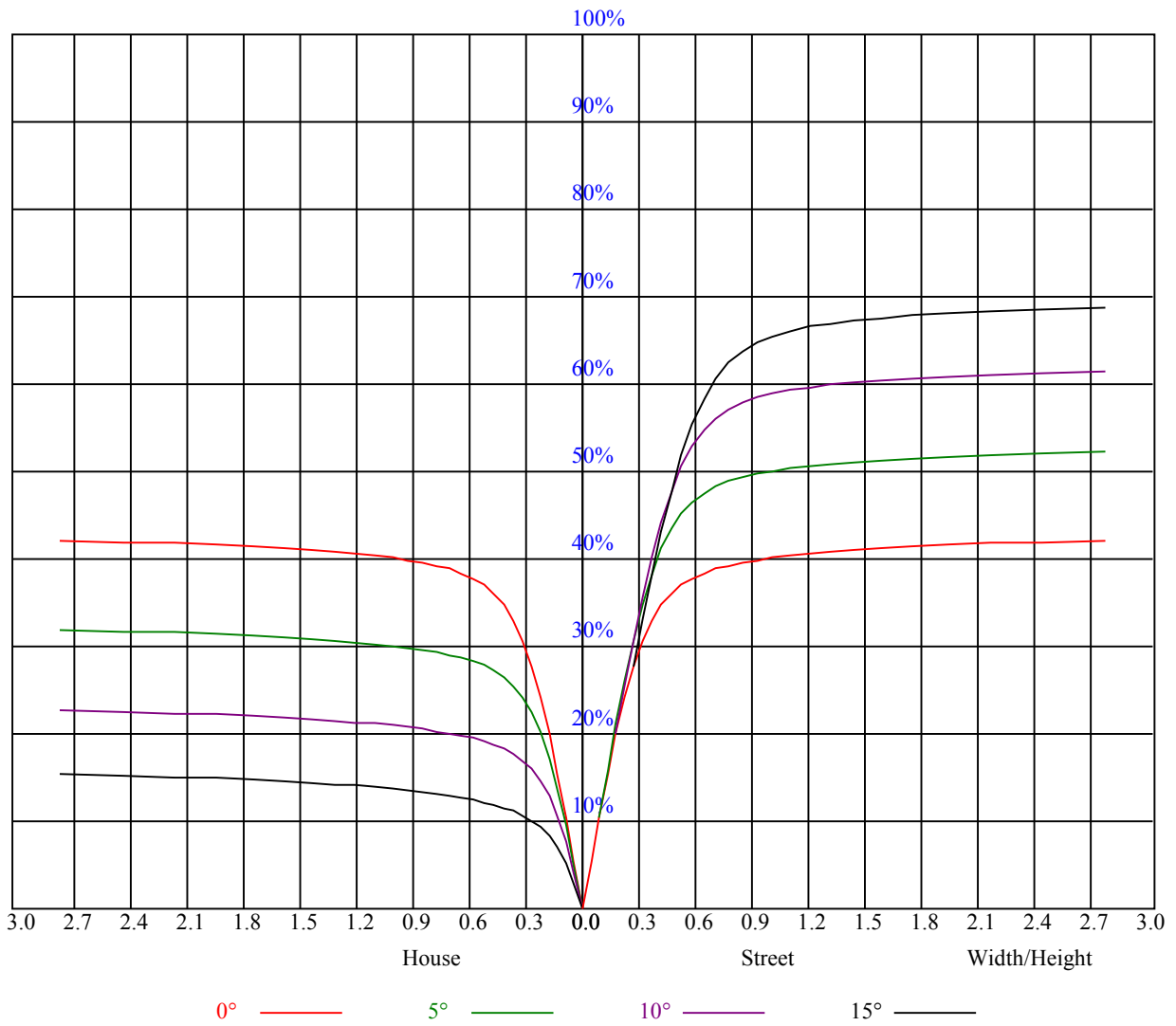
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.04	1.04	1.04	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.90	0.90	0.90	0.88
1	0.95	0.92	0.90	0.93	0.91	0.89	0.90	0.88	0.86	0.86	0.85	0.83	0.83	0.82	0.81	0.79
2	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.74
3	0.84	0.80	0.76	0.83	0.79	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.76	0.74	0.72	0.71
4	0.80	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.67
5	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.64
6	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.65	0.63	0.62
7	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60
8	0.67	0.63	0.60	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
9	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.54



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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	2841.75	2811.38	2546.44	1899.56	1131.75	518.06	290.81	133.03	83.03
45.0	2851.31	2836.13	2549.25	1891.13	1152.56	507.38	284.63	131.91	80.49
90.0	2849.63	2783.25	2441.25	1773.56	1075.44	469.24	228.43	125.78	77.01
135.0	2838.38	2777.06	2544.19	1980.56	1276.88	608.06	300.94	147.09	87.08
180.0	2841.75	2731.50	2485.69	1934.44	1085.06	606.43	283.39	147.38	86.79
225.0	2851.31	2715.19	2411.44	1914.75	1108.97	564.41	275.06	140.51	84.43
270.0	2849.63	2767.50	2491.31	1954.13	1283.63	632.25	289.69	149.23	89.66
315.0	2838.38	2766.38	2431.69	1744.88	1005.36	477.06	235.24	125.10	78.24
360.0	2841.75	2811.38	2546.44	1899.56	1131.75	518.06	290.81	133.03	83.03

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	55.86	46.58	41.01	37.52	34.20	30.54	27.90	27.90	31.05
45.0	55.46	46.63	41.01	36.90	32.79	29.19	28.01	29.48	30.83
90.0	52.26	44.16	38.70	34.88	30.83	27.28	25.59	28.01	30.21
135.0	57.99	46.13	39.66	35.10	31.56	27.84	25.26	25.65	29.70
180.0	58.28	47.59	41.29	37.80	34.65	30.49	26.78	26.55	29.03
225.0	53.83	45.45	39.54	35.72	32.29	28.86	27.39	28.97	28.97
270.0	58.95	48.15	42.02	37.80	33.92	30.88	27.79	30.71	29.87
315.0	52.54	43.54	38.48	34.76	30.88	27.73	26.49	30.49	32.40
360.0	55.86	46.58	41.01	37.52	34.20	30.54	27.90	27.90	31.05

C/γ(°)	90.0
0.0	35.27
45.0	39.21
90.0	35.55
135.0	32.68
180.0	29.14
225.0	27.62
270.0	29.08
315.0	31.33
360.0	35.27