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Nata

LumCAT: 2-2164-M	
Luminaire: BJB47.360.5080	
Report No: NATA0100	Voltage(V): 37.0800
Test No: GC2020022007	Current(A): 0.7000
LampCAT: LUMILEDS 1205	Power (W): 25.9350
Lamp flux(lm): 2850.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2364.93
Efficiency(%): 82.98%
Lumens(lm)/Power(W): 91.19
Central intensity(cd): 10815.190
Maximum intensity(cd): 10815.190
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
 [C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=46.7
 [C90/270]Total=46.7
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.98%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.267%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/2/20
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

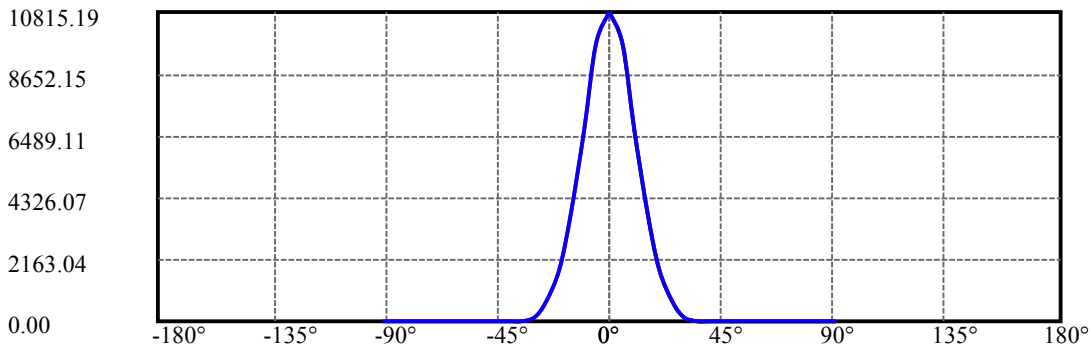
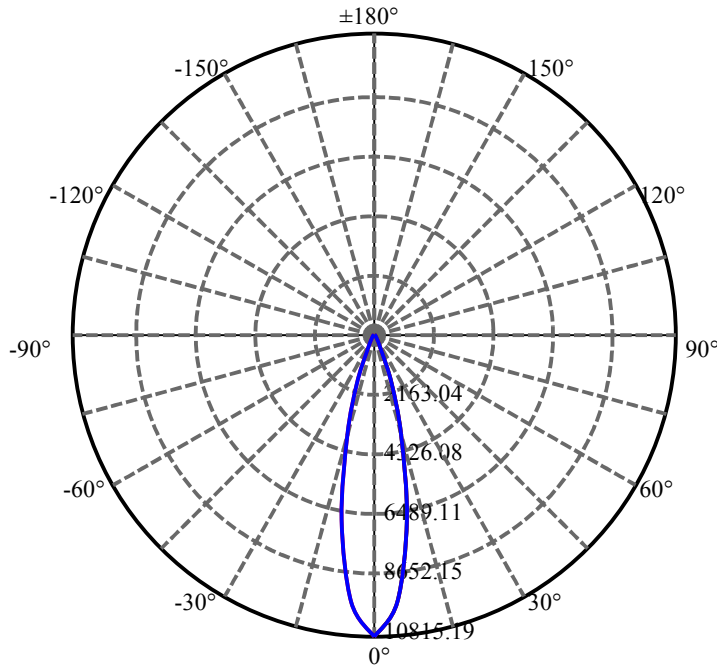
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10815.188	0.000	0	.000%	.000%
5.0	9640.617	244.543	244.543	8.580%	10.340%
10.0	6720.188	585.277	829.821	20.536%	35.089%
15.0	3739.078	620.437	1450.257	21.770%	61.323%
20.0	1832.182	459.150	1909.408	16.111%	80.738%
25.0	704.201	266.020	2175.427	9.334%	91.987%
30.0	114.588	103.618	2279.046	3.636%	96.368%
35.0	15.638	19.177	2298.222	.673%	97.179%
40.0	13.725	4.899	2303.121	.172%	97.386%
45.0	12.776	4.907	2308.028	.172%	97.594%
50.0	12.340	5.075	2313.103	.178%	97.809%
55.0	12.038	5.300	2318.404	.186%	98.033%
60.0	11.911	5.536	2323.939	.194%	98.267%
65.0	12.368	5.902	2329.841	.207%	98.516%
70.0	14.808	6.881	2336.722	.241%	98.807%
75.0	18.387	8.677	2345.399	.304%	99.174%
80.0	12.178	8.178	2353.577	.287%	99.520%
85.0	9.942	6.011	2359.588	.211%	99.774%
90.0	9.570	5.342	2364.93	.187%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2279.05	79.97%	96.37%
0-40	2303.12	80.81%	97.39%
0-60	2323.94	81.54%	98.27%
0-90	2359.59	82.79%	99.77%
0-120	2359.59	82.79%	99.77%
0-180	2364.93	82.98%	100.00%
60-90	41.18	1.45%	1.74%
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%
0-19.81	1891.94	66.38%	80.00%

ZONAL LUMEN SUMMARY

0-10	829.82
10-20	1079.59
20-30	369.64
30-40	24.08
40-50	9.98
50-60	10.84
60-70	12.78
70-80	16.85
80-90	6.01
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: ———

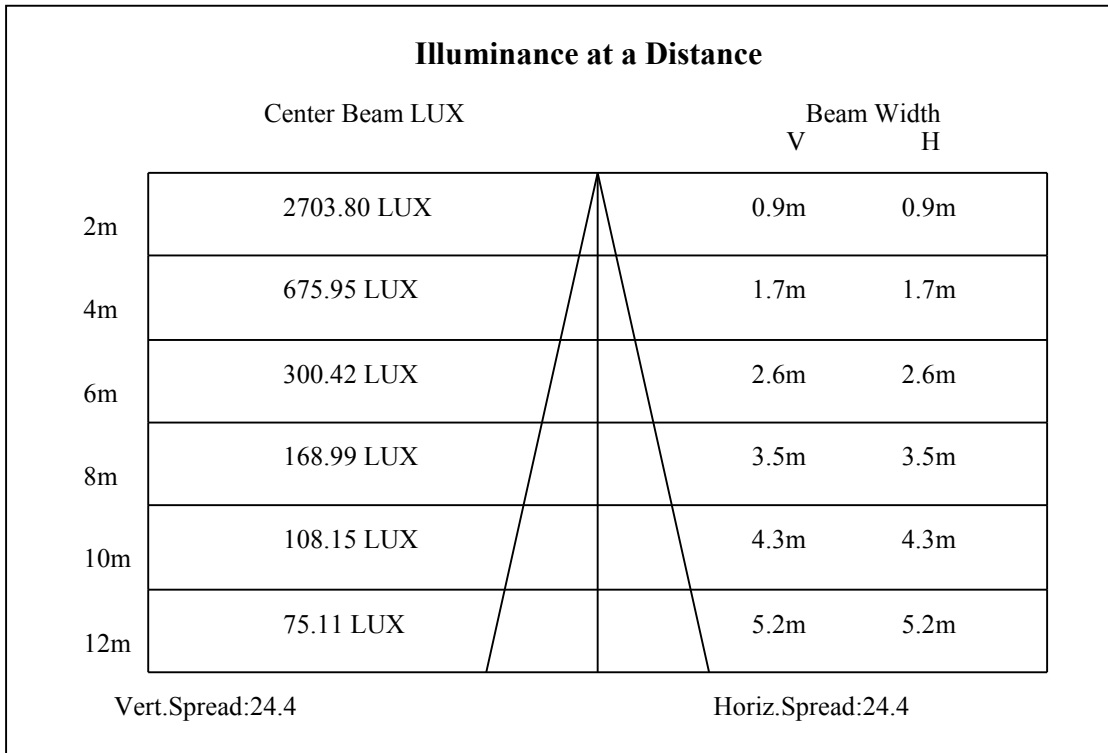
C90/C270: ———

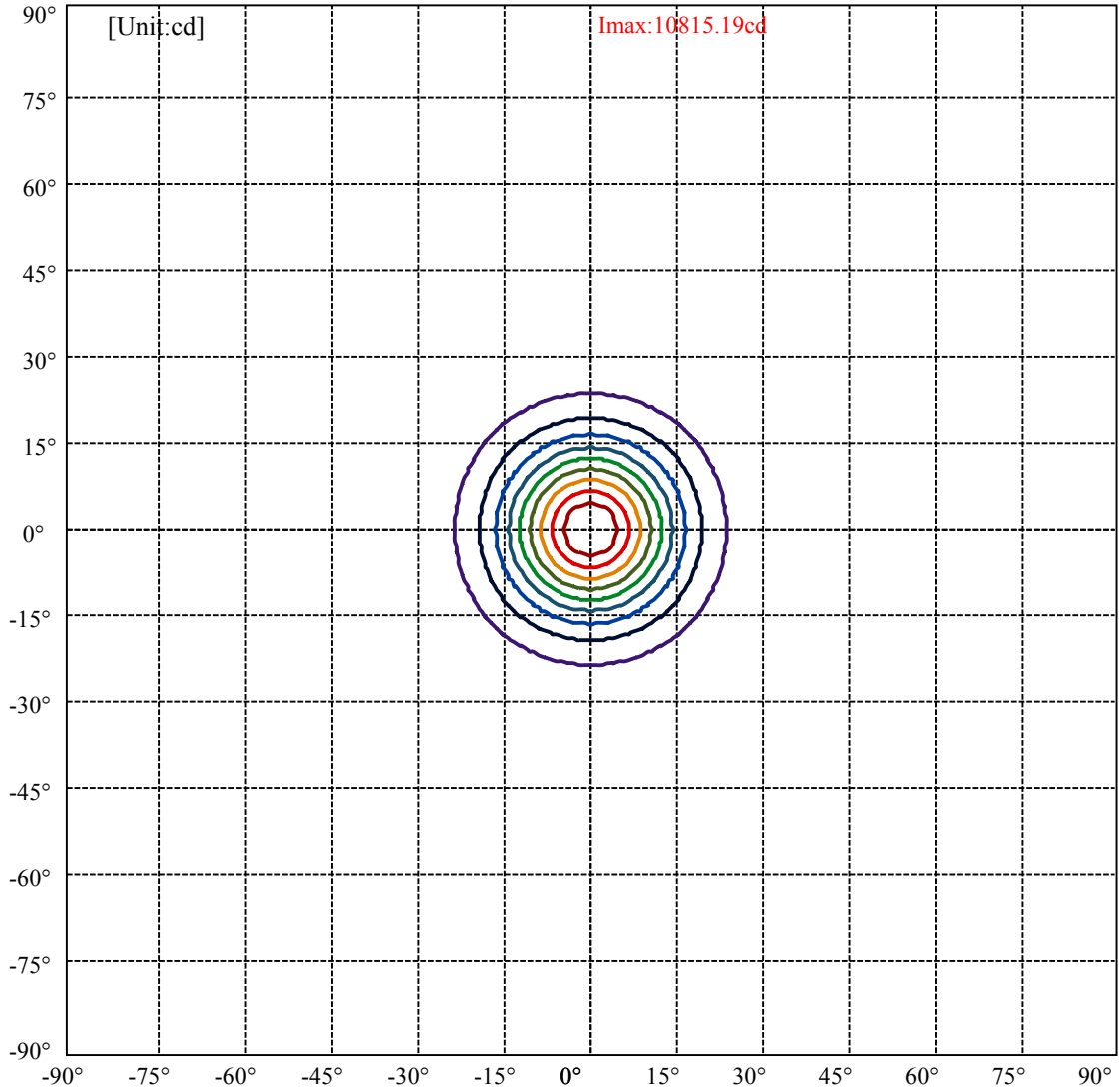
Field angle(10%Imax):C0/180Left:23.3 Right:23.3

:C90/270Left:23.3 Right:23.3

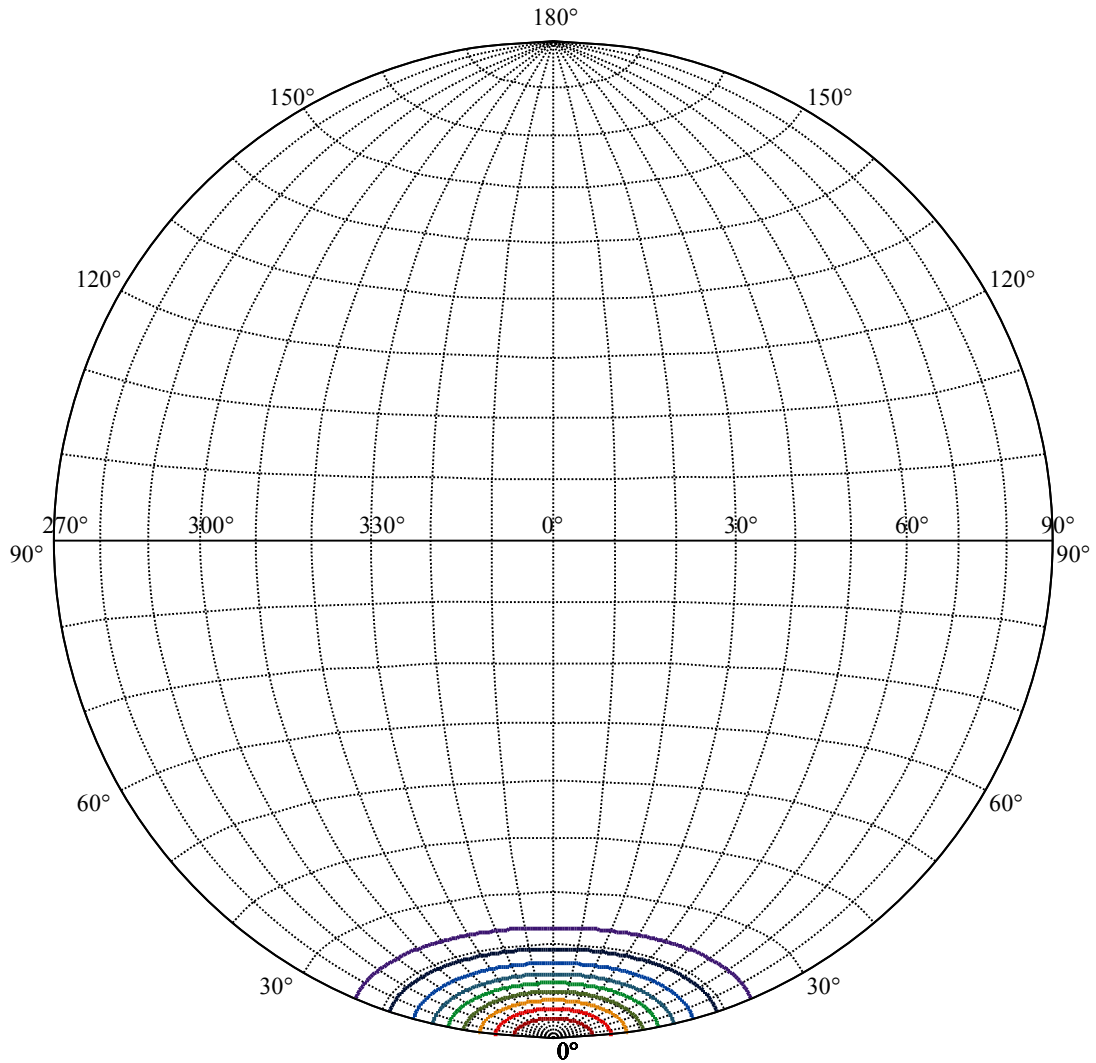
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2

:C90/270Left:12.2 Right:12.2





(10%Imax) 1081.52	—
(20%Imax) 2163.04	—
(30%Imax) 3244.56	—
(40%Imax) 4326.07	—
(50%Imax) 5407.59	—
(60%Imax) 6489.11	—
(70%Imax) 7570.63	—
(80%Imax) 8652.15	—
(90%Imax) 9733.67	—



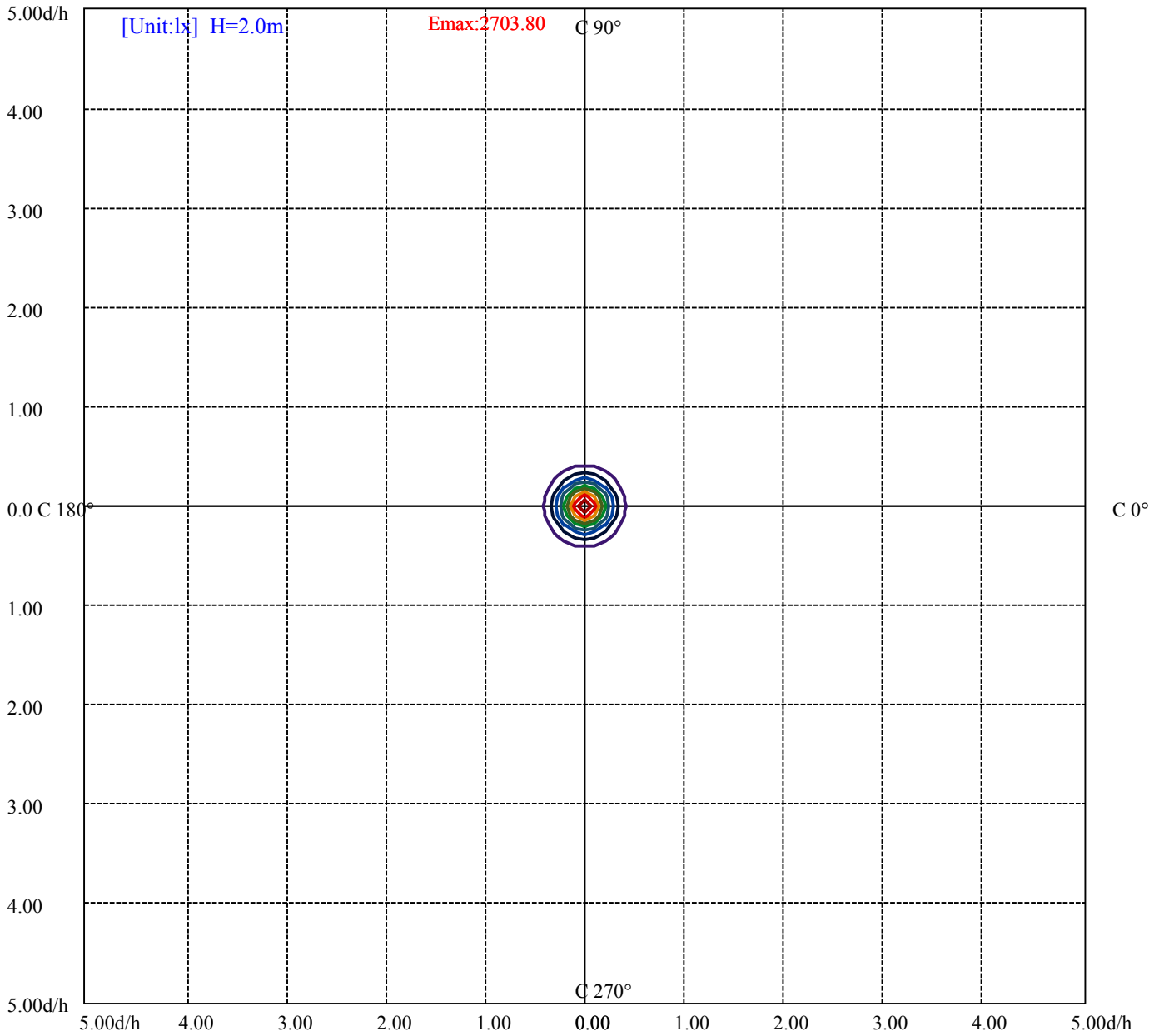
House

[Unit:cd]

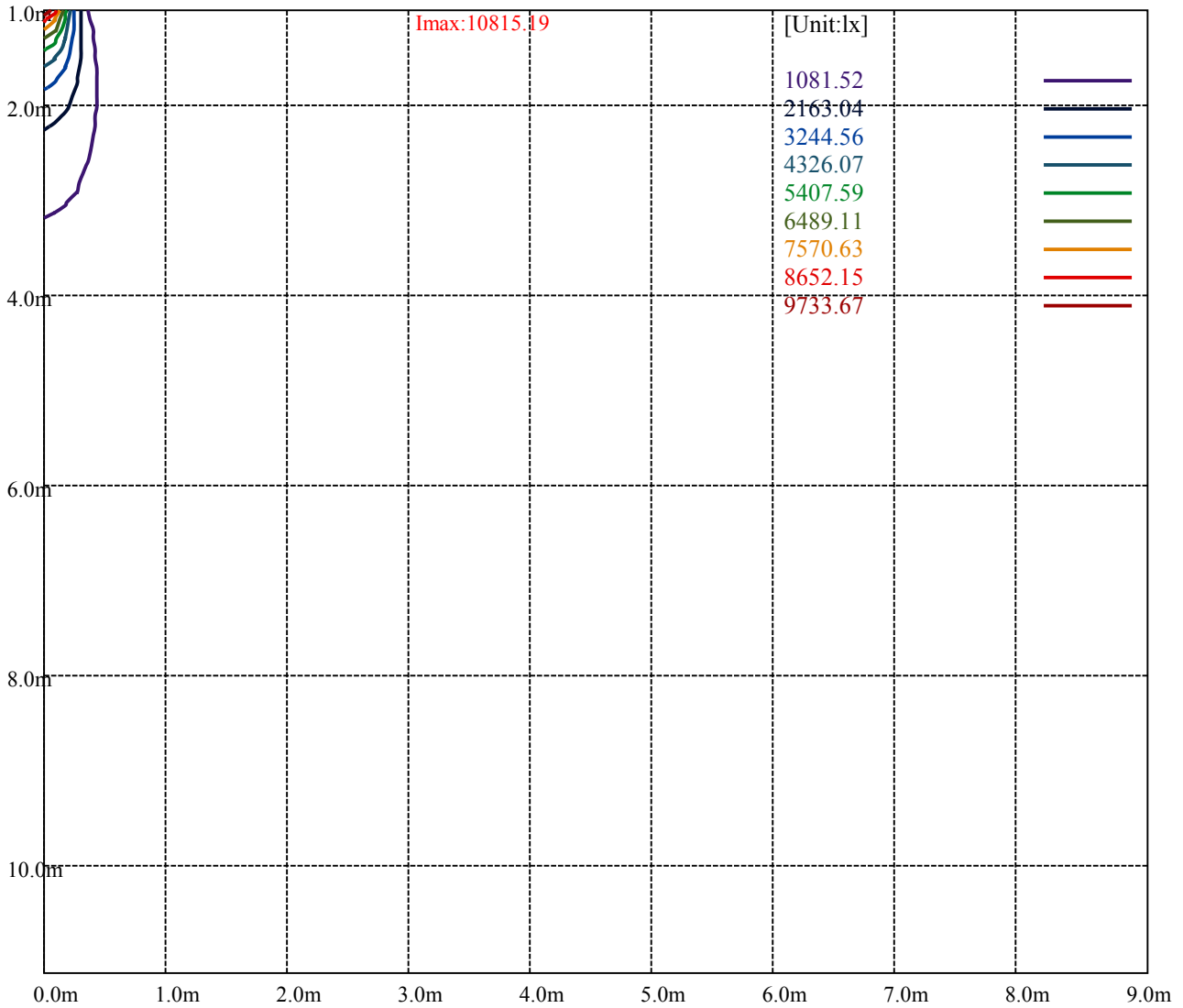
Road

Imax:10815.19

(10%Imax) 1081.52	—
(20%Imax) 2163.04	—
(30%Imax) 3244.56	—
(40%Imax) 4326.07	—
(50%Imax) 5407.59	—
(60%Imax) 6489.11	—
(70%Imax) 7570.63	—
(80%Imax) 8652.15	—
(90%Imax) 9733.67	—



(10%Emax) 270.38	—
(20%Emax) 540.7575	—
(30%Emax) 811.1375	—
(40%Emax) 1081.515	—
(50%Emax) 1351.895	—
(60%Emax) 1622.272	—
(70%Emax) 1892.652	—
(80%Emax) 2163.03	—
(90%Emax) 2433.41	—



Luminance Table

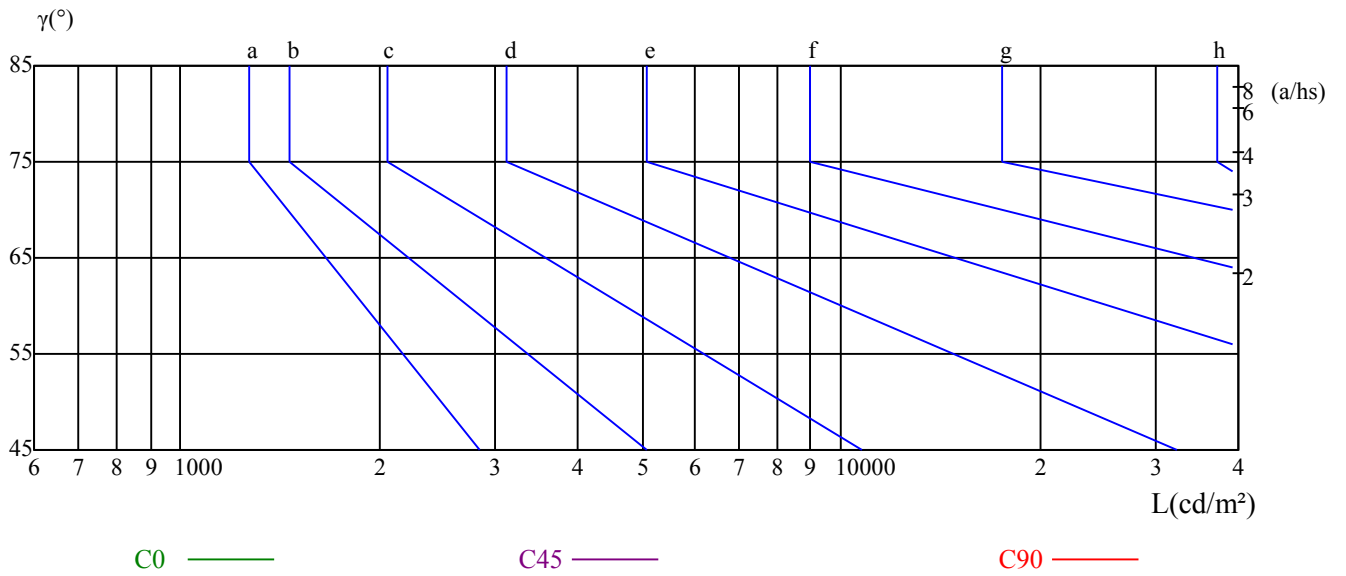
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

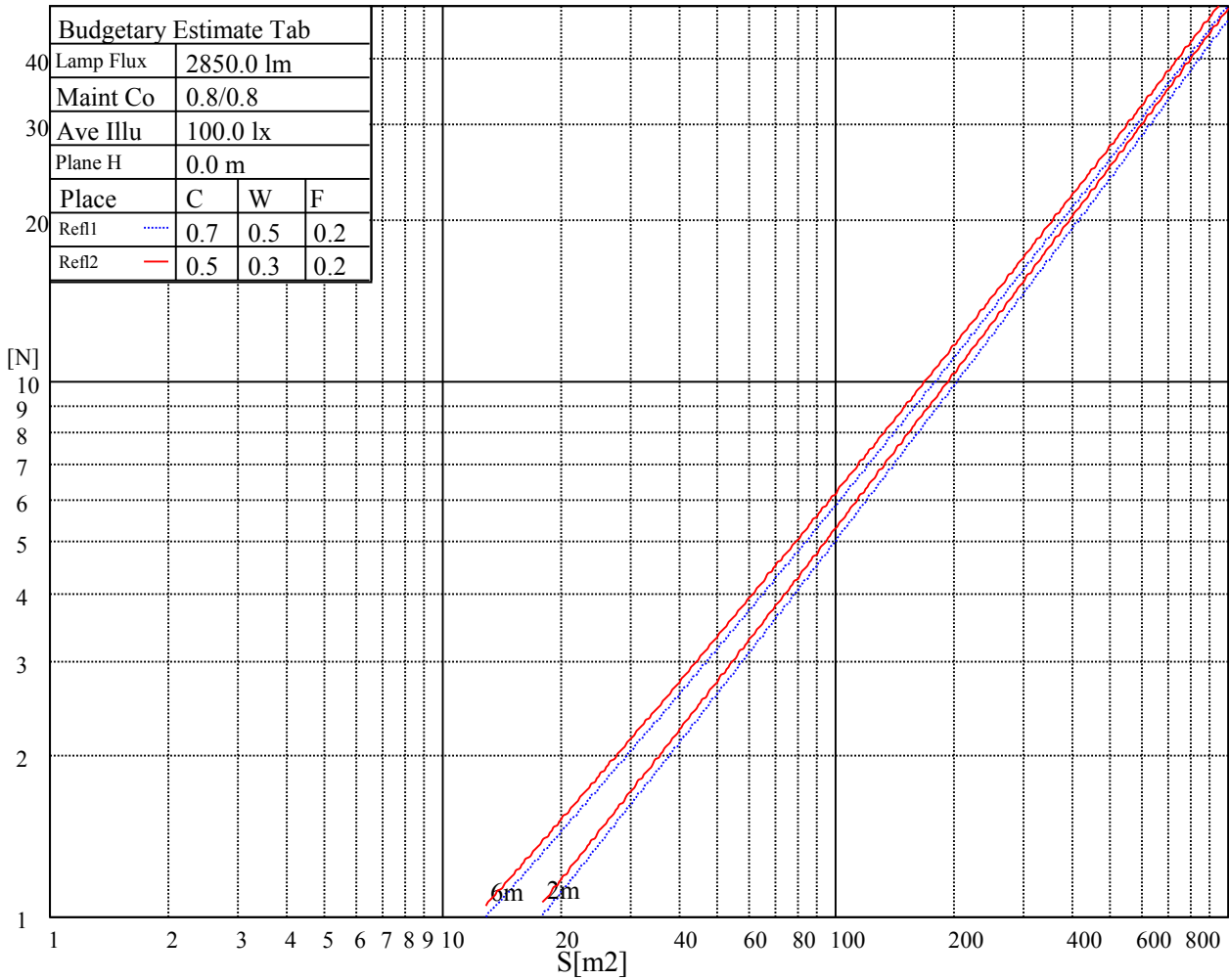
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

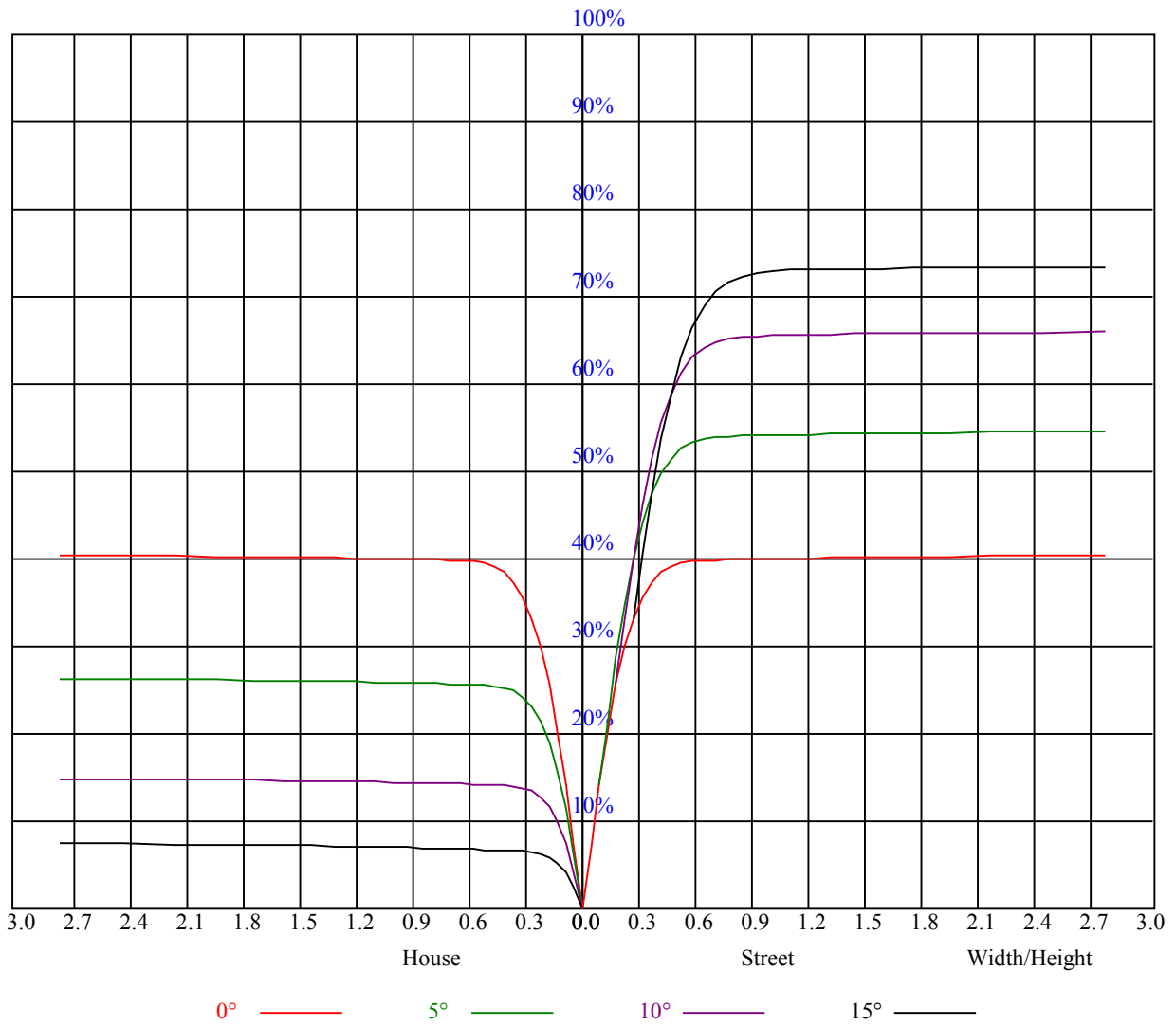
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.93	0.92	0.90	0.92	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80
2	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.81	0.82	0.81	0.80	0.80	0.79	0.78	0.77
3	0.85	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.77	0.75	0.74
4	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.72
5	0.79	0.75	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.71	0.70
6	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.73	0.71	0.69	0.73	0.70	0.69	0.68
7	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.67	0.66
8	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.64
9	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.67	0.65	0.63	0.62
10	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.66	0.63	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	10839.38	9068.63	5914.13	3192.75	1514.81	464.06	18.39	14.29	12.88
45.0	10867.50	10172.25	7472.81	4195.13	2118.38	912.94	302.06	15.53	13.61
90.0	10897.31	10050.75	7237.69	4007.81	2113.88	860.63	83.14	16.54	14.40
135.0	10656.56	10530.00	8211.94	4965.19	2550.38	1167.75	312.75	17.94	14.96
180.0	10839.38	10184.63	7648.88	4317.75	2214.56	946.29	142.48	15.98	13.84
225.0	10867.50	9222.75	5896.13	3147.19	1386.00	468.79	19.69	14.79	13.11
270.0	10897.31	9415.13	6136.31	3434.06	1667.81	524.81	20.03	15.47	13.73
315.0	10656.56	8480.81	5243.63	2652.75	1091.64	288.34	18.17	14.57	13.28
360.0	10839.38	9068.63	5914.13	3192.75	1514.81	464.06	18.39	14.29	12.88
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	12.21	12.04	11.81	11.64	12.04	16.31	16.99	10.46	9.56
45.0	12.54	11.98	11.59	11.36	11.14	10.97	10.74	10.52	10.07
90.0	13.33	12.88	12.54	12.32	13.28	14.57	25.76	14.18	10.18
135.0	13.73	12.99	12.71	12.60	12.77	14.46	21.04	17.55	10.01
180.0	12.94	12.43	12.21	12.15	12.38	14.06	18.06	13.95	9.73
225.0	12.26	11.76	11.42	11.08	10.91	10.74	10.58	10.24	10.07
270.0	12.60	12.15	11.76	11.93	13.05	15.81	25.59	10.24	10.18
315.0	12.60	12.49	12.26	12.21	13.39	21.54	18.34	10.29	9.73
360.0	12.21	12.04	11.81	11.64	12.04	16.31	16.99	10.46	9.56
C/ γ (°)	90.0								
0.0	9.34								
45.0	9.68								
90.0	9.73								
135.0	9.51								
180.0	9.39								
225.0	9.68								
270.0	9.73								
315.0	9.51								
360.0	9.34								