
Nata

LumCAT: 6723-A
Luminaire: TE 2213480-1+92.76.365.00
Report No: GC2017033003 Voltage(V): 34.2000
Test No: NT-0010 Current(A): 0.8000
LampCAT: LUMILEDS LUXEON CoB 1211 Power (W): 27.3600
Lamp flux(lm): 3586.0 PF: 0.0000
Number of Lamps: 1 Ballast type: DC
Length(mm): 160 Width(mm): 160
Phm Type: C Height(mm): 0

Photometric Results

Lumens(lm): 3360.52
Efficiency(%): 93.71%
Lumens(lm)/Power(W): 122.83
Central intensity(cd): 2174.728
Maximum intensity(cd): 2193.585
Angle of maximum intensity: C=0.0 γ =15.0
Beam Angle(50%Imax): [C0/180]Total=81.5
[C90/270]Total=81.5
Field angle(10%Imax): [C0/180]Total=100.7
[C90/270]Total=100.7
Maximum s/h(1/2): C0_180=1.22 C90_270=1.22
Maximum s/h(1/4): C0_180=1.17 C90_270=1.17
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.71%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.711%

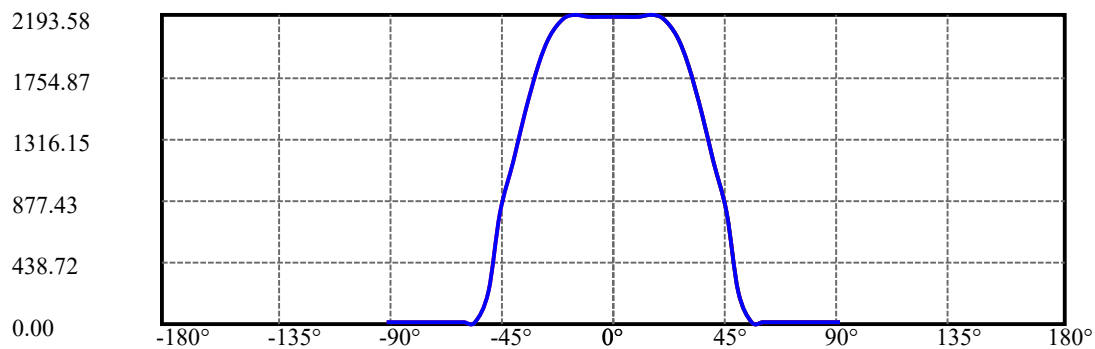
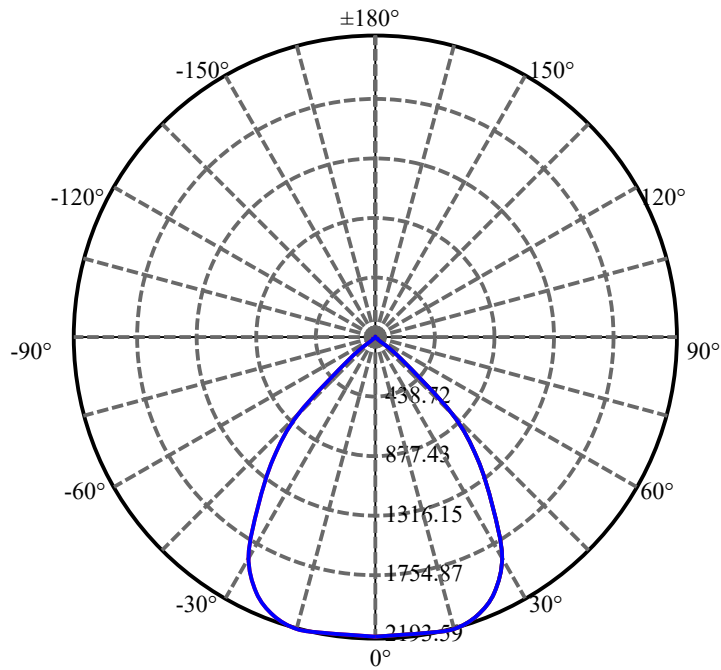
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2174.728	0.000	0	.000%	.000%
5.0	2174.384	51.992	51.992	1.450%	1.547%
10.0	2183.812	155.906	207.899	4.348%	6.187%
15.0	2193.585	259.664	467.563	7.241%	13.913%
20.0	2161.101	358.887	826.45	10.008%	24.593%
25.0	2048.029	441.460	1267.91	12.311%	37.730%
30.0	1833.791	491.248	1759.158	13.699%	52.348%
35.0	1493.611	489.983	2249.141	13.664%	66.928%
40.0	1153.838	441.707	2690.848	12.318%	80.072%
45.0	785.497	359.083	3049.932	10.013%	90.758%
50.0	235.277	206.262	3256.194	5.752%	96.896%
55.0	15.388	54.503	3310.697	1.520%	98.517%
60.0	12.746	6.503	3317.2	.181%	98.711%
65.0	13.716	6.433	3323.633	.179%	98.902%
70.0	15.746	7.460	3331.093	.208%	99.124%
75.0	16.001	8.298	3339.391	.231%	99.371%
80.0	13.523	7.900	3347.291	.220%	99.606%
85.0	11.954	6.923	3354.213	.193%	99.812%
90.0	11.066	6.303	3360.517	.176%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1759.16	49.06%	52.35%
0-40	2690.85	75.04%	80.07%
0-60	3317.20	92.50%	98.71%
0-90	3354.21	93.54%	99.81%
0-120	3354.21	93.54%	99.81%
0-180	3360.52	93.71%	100.00%
60-90	43.52	1.21%	1.29%
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%
0-39.97	2688.41	74.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	207.90
10-20	618.55
20-30	932.71
30-40	931.69
40-50	565.35
50-60	61.01
60-70	13.89
70-80	16.20
80-90	6.92
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: —————

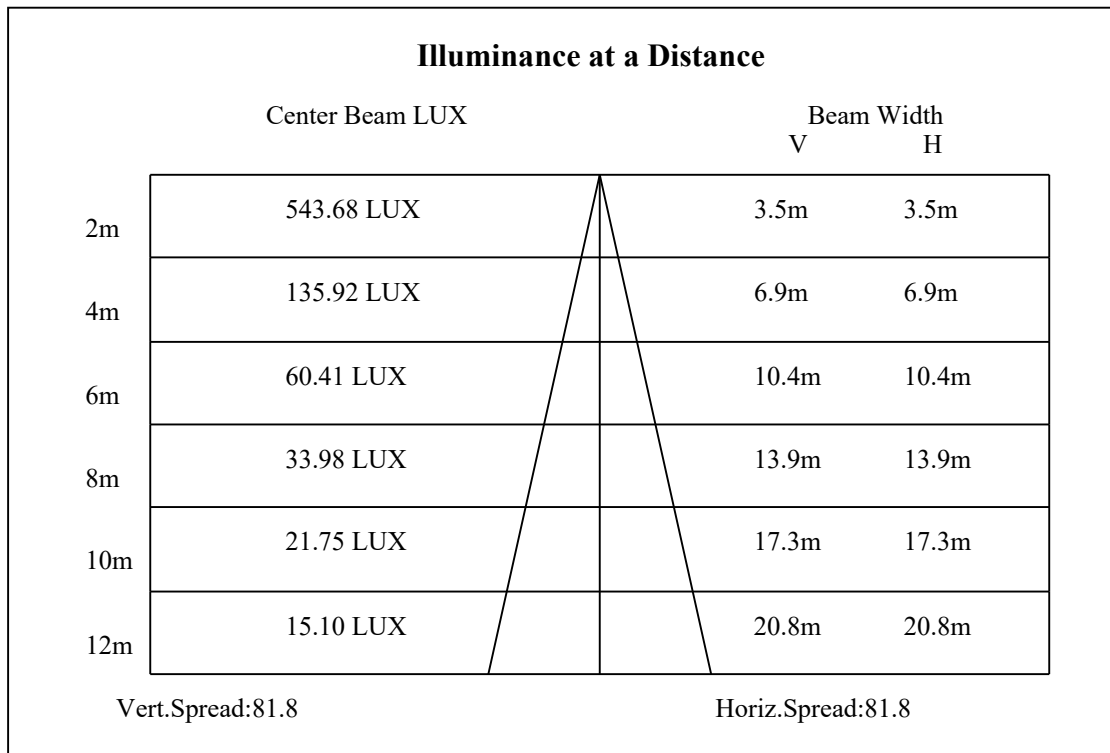
C90/C270: —————

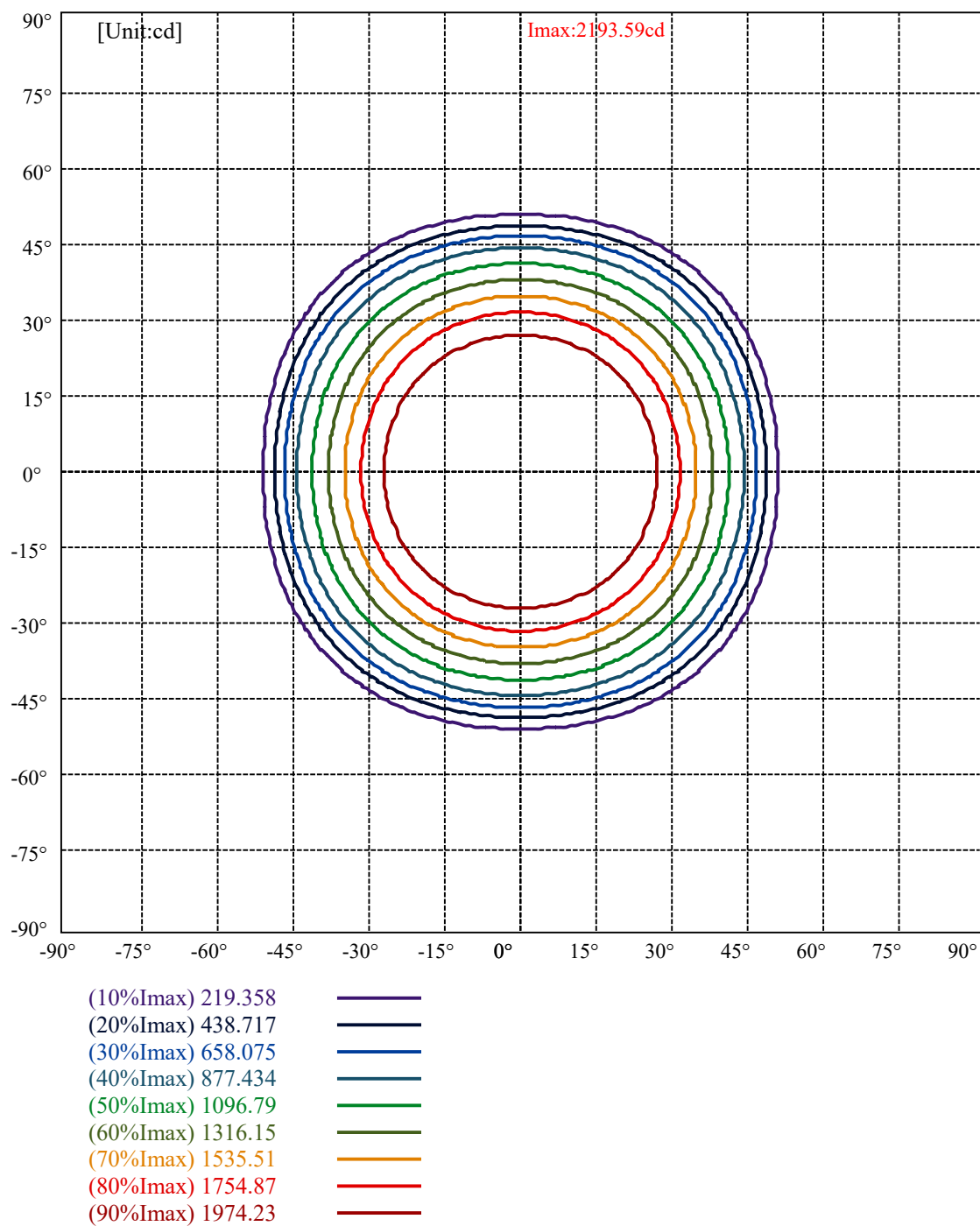
Field angle(10%Imax):C0/180Left:65.4 Right:35.4

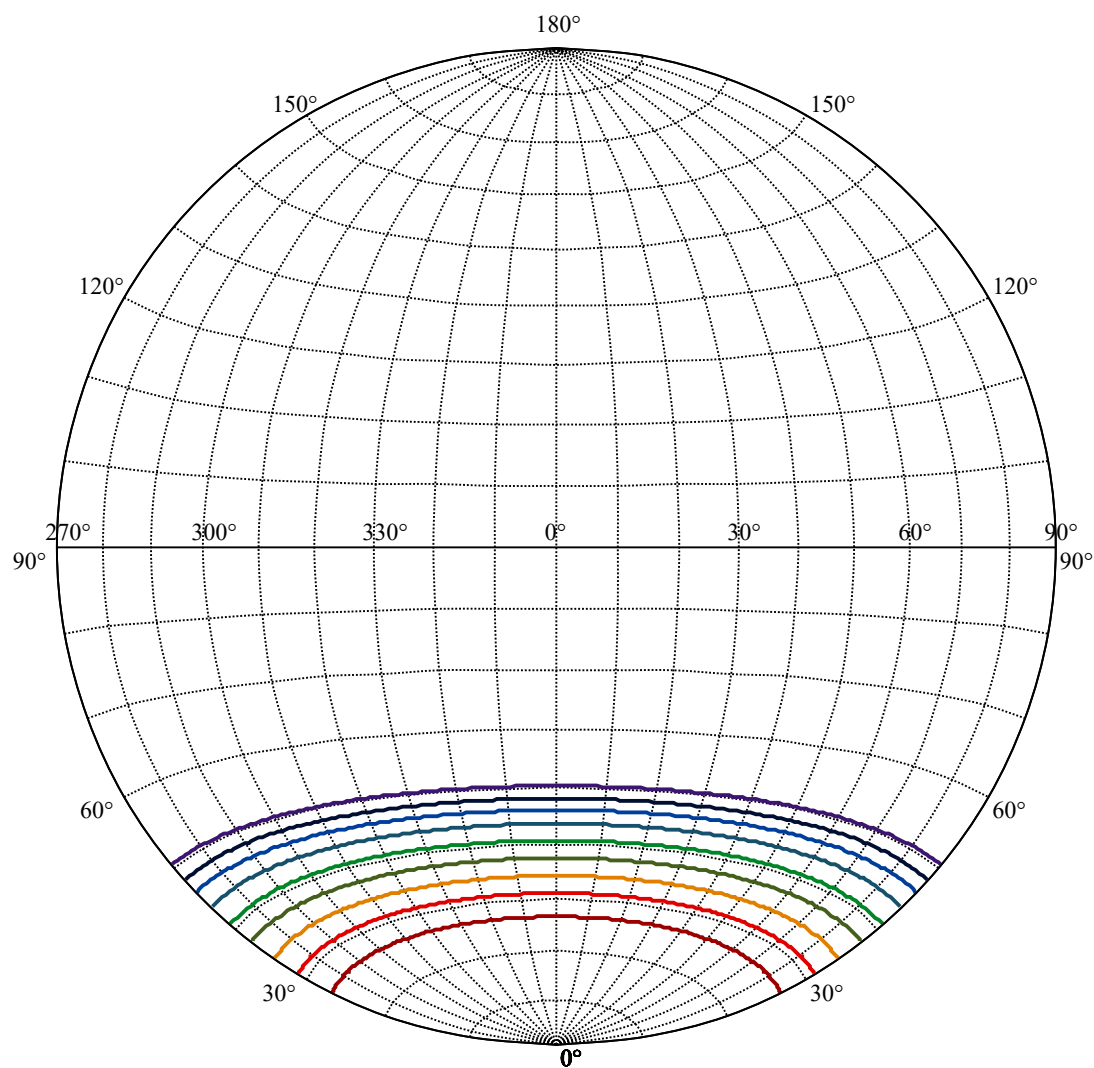
:C90/270Left:65.4 Right:35.4

Beam Angle(50%Imax):C0/180Left:55.8 Right:25.8

:C90/270Left:55.8 Right:25.8







House

[Unit:cd]

Road

Imax:2193.59

(10%Imax) 219.358

(20%Imax) 438.717

(30%Imax) 658.075

(40%Imax) 877.434

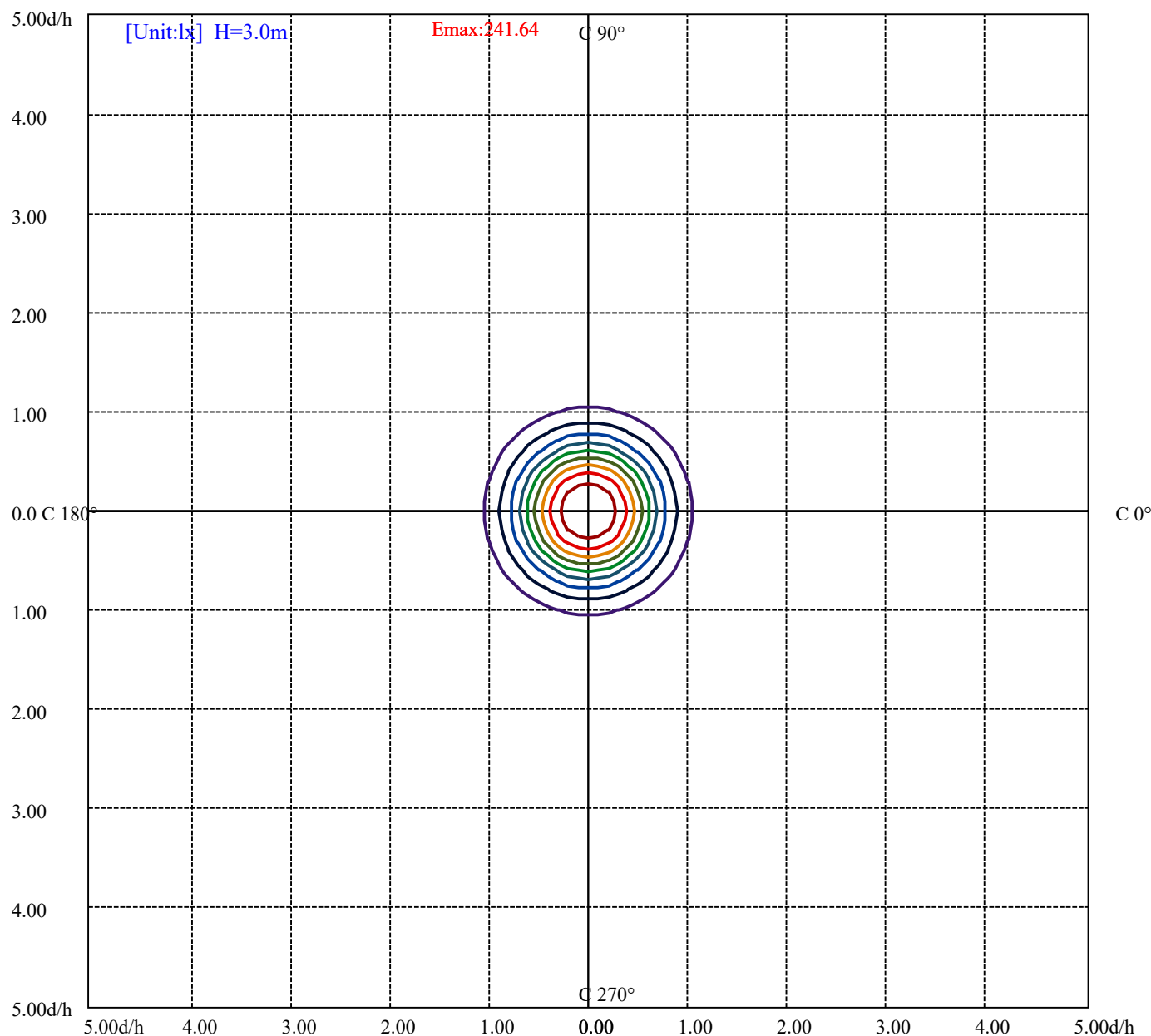
(50%Imax) 1096.79

(60%Imax) 1316.15

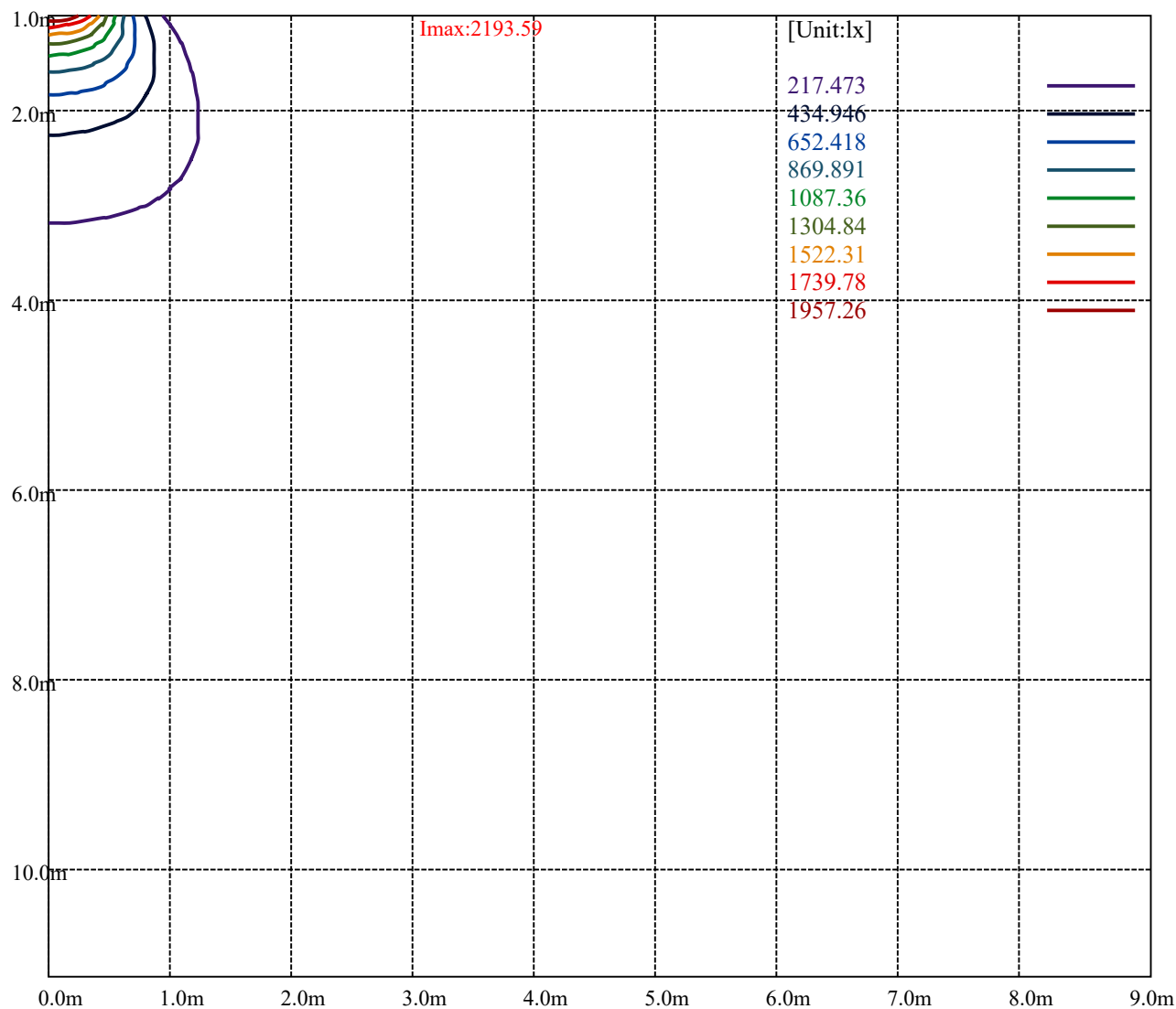
(70%Imax) 1535.51

(80%Imax) 1754.87

(90%Imax) 1974.23



(10%Emax) 24.16367	—
(20%Emax) 48.32734	—
(30%Emax) 72.49089	—
(40%Emax) 96.65456	—
(50%Emax) 120.8178	—
(60%Emax) 144.9822	—
(70%Emax) 169.1456	—
(80%Emax) 193.3089	—
(90%Emax) 217.4733	—



Luminance Table

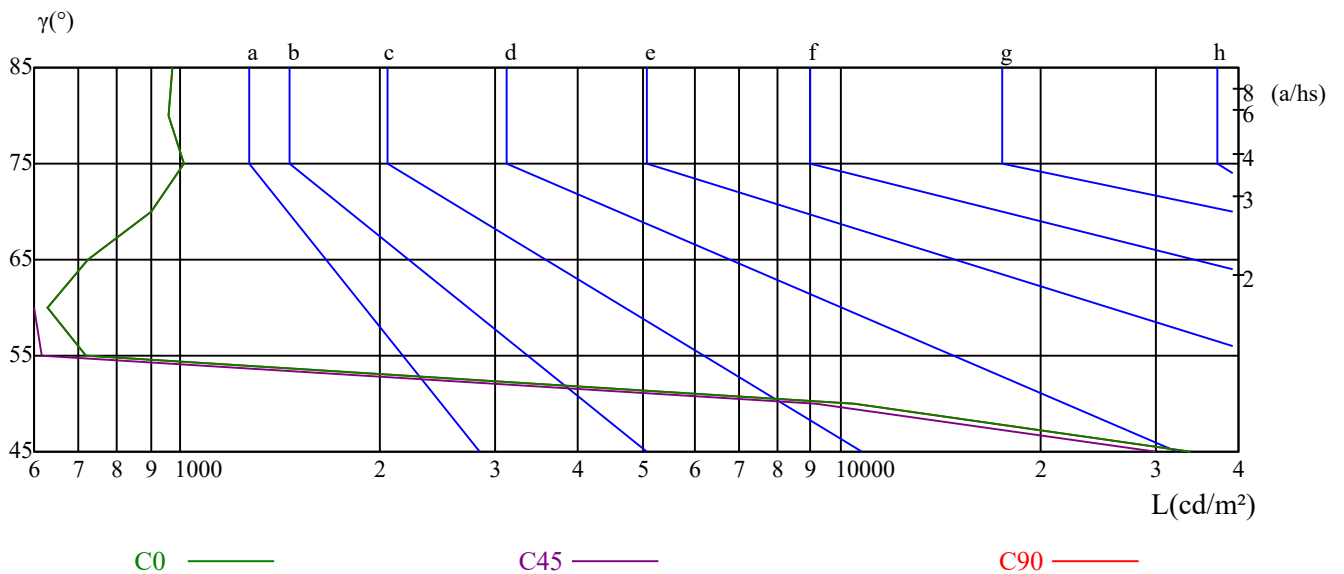
γ	45	50	55	60	65	70	75	80	85
C0	33816	10508	720	631	726	904	1011	959	974
C45	29912	9164	618	533	602	734	802	738	723
C90	33816	10508	720	631	726	904	1011	959	974

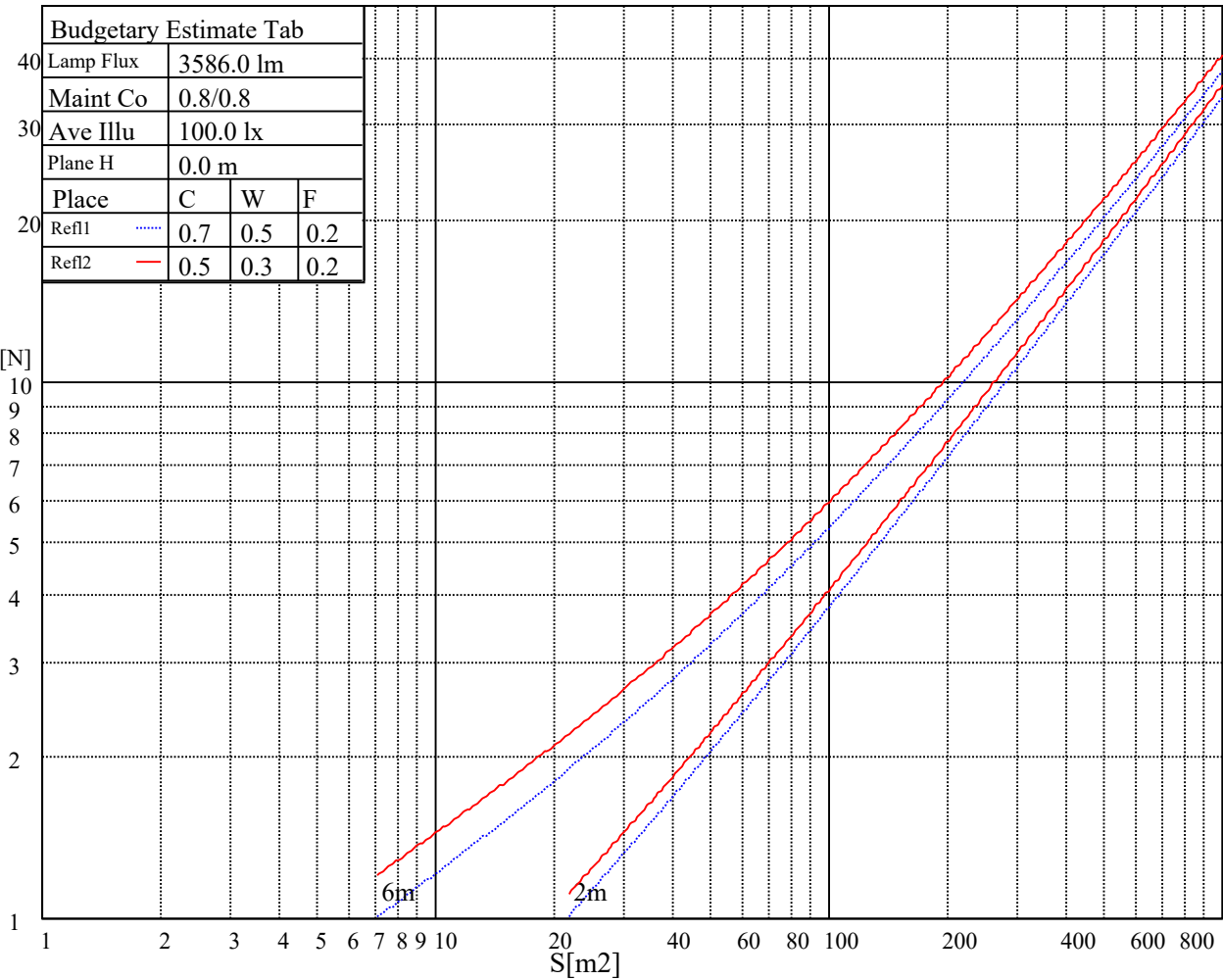
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1442	1442	1442	2748	2748	2748	6096	6096	6096

Glare Table

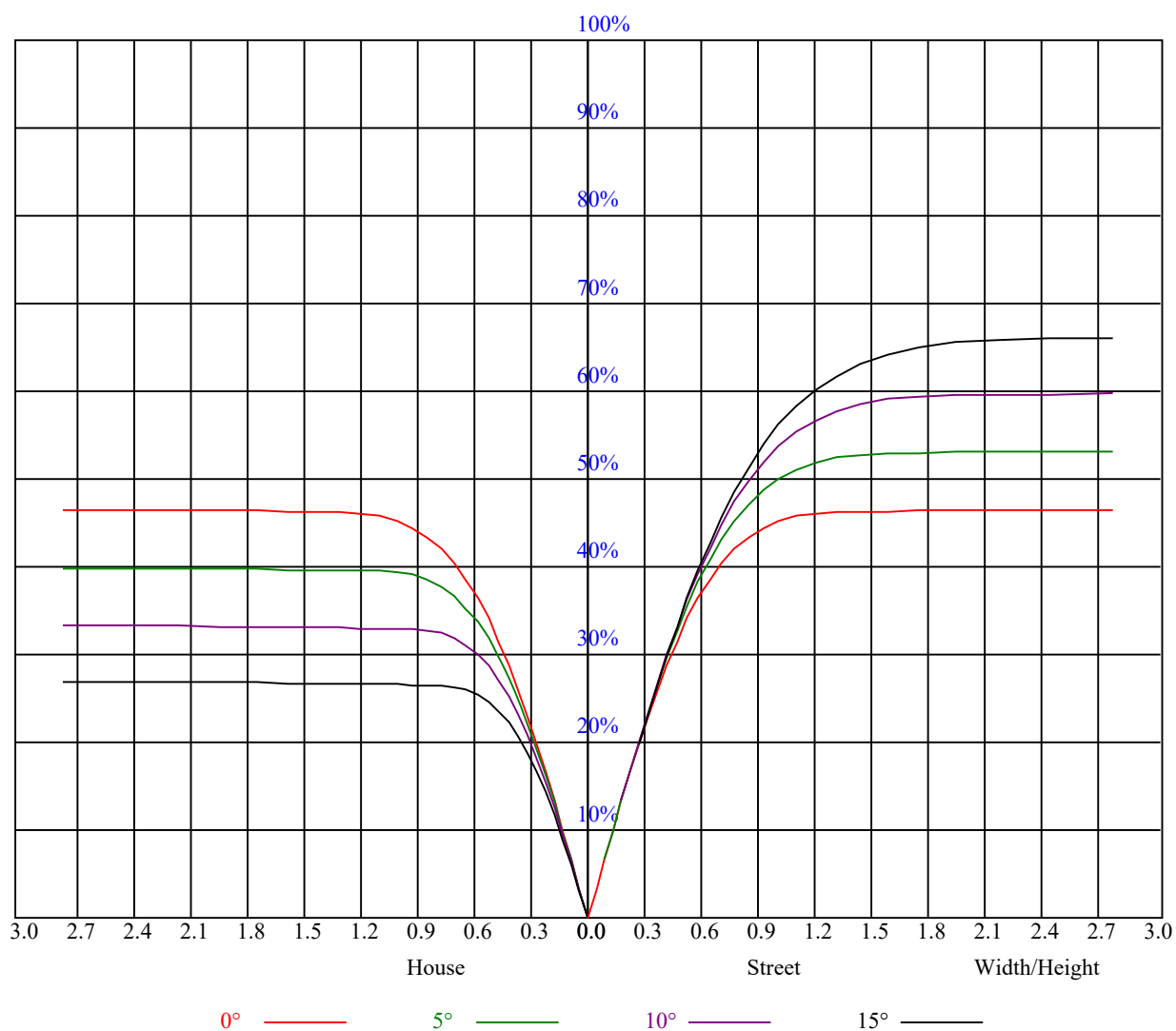
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOC	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 RHOF=20 CU															
0	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.03	1.00	0.98	1.01	0.98	0.96	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.86
2	0.94	0.90	0.86	0.92	0.89	0.85	0.89	0.86	0.83	0.87	0.84	0.81	0.84	0.82	0.80	0.78
3	0.86	0.81	0.77	0.85	0.80	0.76	0.83	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.71
4	0.80	0.74	0.69	0.78	0.73	0.69	0.76	0.72	0.68	0.74	0.70	0.67	0.73	0.69	0.66	0.65
5	0.73	0.67	0.62	0.72	0.67	0.62	0.71	0.66	0.62	0.69	0.65	0.61	0.67	0.64	0.60	0.59
6	0.68	0.61	0.57	0.67	0.61	0.57	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.55	0.54
7	0.63	0.56	0.52	0.62	0.56	0.52	0.61	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.49
8	0.58	0.52	0.47	0.58	0.52	0.47	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.45
9	0.54	0.48	0.44	0.54	0.48	0.44	0.53	0.47	0.43	0.52	0.47	0.43	0.51	0.46	0.43	0.42
10	0.51	0.44	0.40	0.50	0.44	0.40	0.49	0.44	0.40	0.49	0.44	0.40	0.48	0.43	0.40	0.39



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	2174.18	2189.59	2206.11	2222.08	2210.51	2124.08	1934.13	1643.98	1264.65
45.0	2170.87	2181.89	2180.23	2181.89	2131.23	2000.75	1784.93	1418.25	1101.13
90.0	2178.03	2171.97	2166.47	2156.56	2088.84	1925.32	1663.80	1301.53	999.49
135.0	2175.83	2168.67	2165.37	2160.41	2113.06	1969.37	1727.12	1372.01	1074.15
180.0	2174.18	2163.72	2166.47	2160.96	2107.01	1964.96	1712.25	1376.41	1063.41
225.0	2170.87	2164.27	2185.19	2209.96	2189.04	2099.30	1901.10	1549.84	1177.66
270.0	2178.03	2174.73	2196.75	2228.13	2233.64	2173.08	2007.91	1691.33	1310.89
315.0	2175.83	2180.23	2203.91	2228.68	2215.47	2127.38	1939.09	1595.53	1239.32
360.0	2174.18	2189.59	2206.11	2222.08	2210.51	2124.08	1934.13	1643.98	1264.65

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	965.69	339.70	15.09	12.77	12.11	15.97	18.39	14.09	11.78
45.0	688.76	295.10	13.65	12.72	13.93	18.55	19.10	15.75	11.62
90.0	488.74	20.26	13.05	12.44	17.34	15.75	14.37	13.05	11.45
135.0	627.64	26.76	13.54	12.50	14.26	15.36	12.88	12.17	12.72
180.0	618.94	33.53	13.32	12.39	15.14	17.34	16.30	12.72	11.95
225.0	922.64	271.98	14.98	13.05	12.44	15.42	17.40	14.81	12.22
270.0	1024.05	532.40	23.84	13.16	12.28	13.16	14.09	12.99	11.95
315.0	947.52	362.49	15.64	12.94	12.22	14.42	15.47	12.61	11.95
360.0	965.69	339.70	15.09	12.77	12.11	15.97	18.39	14.09	11.78

C/γ(°)	90.0
0.0	10.96
45.0	11.18
90.0	11.12
135.0	11.01
180.0	10.96
225.0	11.18
270.0	11.12
315.0	11.01
360.0	10.96