
LumCAT: 3-1884-L	
Luminaire: 92.70.131.00	
Report No: NATA0100	Voltage(V): 35.2700
Test No: GC2019120503	Current(A): 0.3970
LampCAT: TRIDONIC SLE G7 13MM	Power (W): 14.0000
Lamp flux(lm): 1765.0	PF: 1.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1704.86
Efficiency(%): 96.59%
Lumens(lm)/Power(W): 121.78
Central intensity(cd): 4273.172
Maximum intensity(cd): 4273.172
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.1
[C90/270]Total=34.1
Field angle(10%Imax): [C0/180]Total=65.2
[C90/270]Total=65.2
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.55 C90_270=0.55
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.59%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.224%

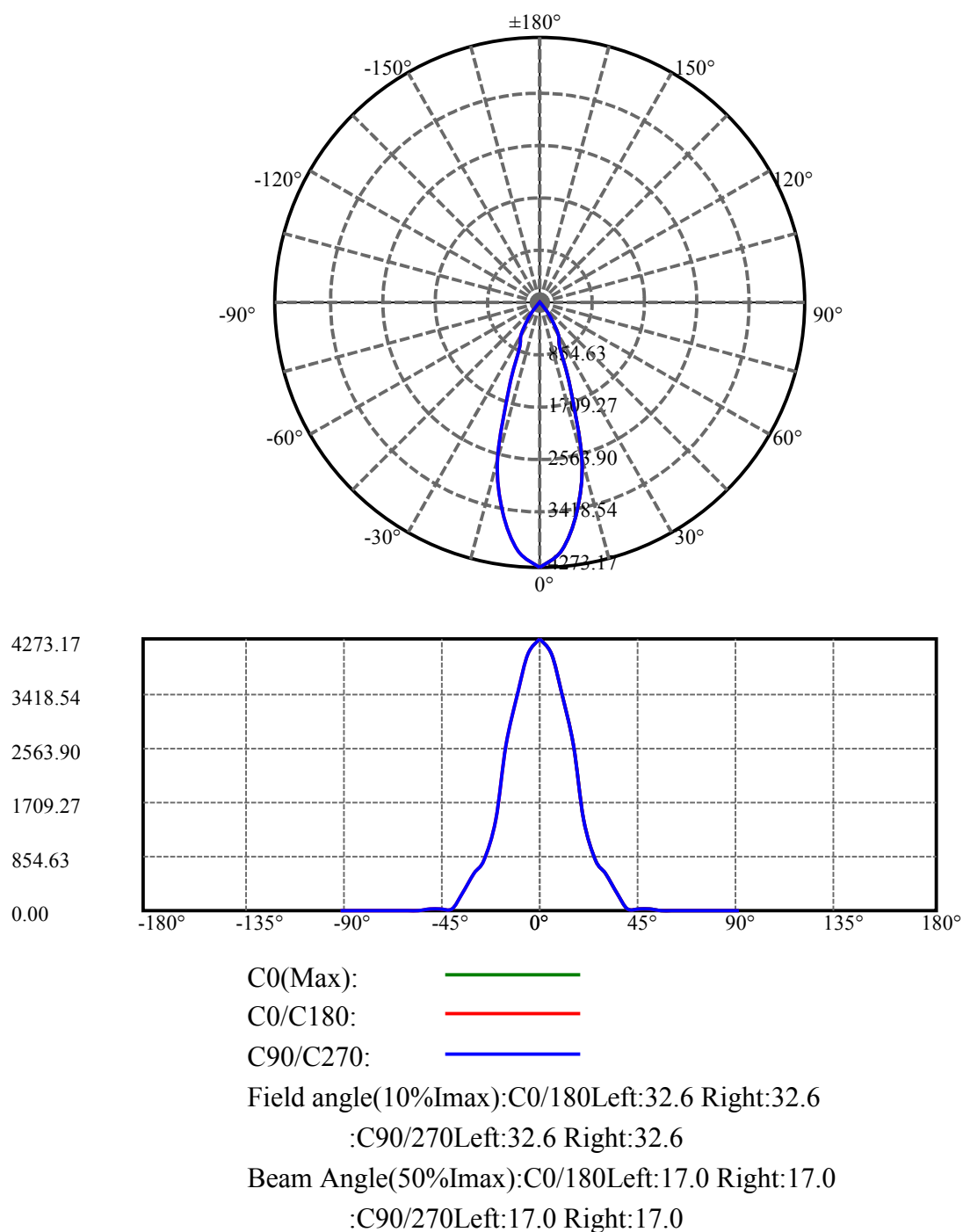
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4273.172	0.000	0	.000%	.000%
5.0	4021.242	99.157	99.157	5.618%	5.816%
10.0	3433.781	266.690	365.847	15.110%	21.459%
15.0	2612.953	358.688	724.535	20.322%	42.498%
20.0	1445.660	334.487	1059.022	18.951%	62.118%
25.0	797.702	235.287	1294.309	13.331%	75.919%
30.0	590.302	175.653	1469.962	9.952%	86.222%
35.0	275.604	127.511	1597.473	7.224%	93.701%
40.0	31.170	51.183	1648.656	2.900%	96.703%
45.0	16.095	8.751	1657.407	.496%	97.217%
50.0	13.486	5.977	1663.384	.339%	97.567%
55.0	12.347	5.617	1669.001	.318%	97.897%
60.0	11.777	5.576	1674.578	.316%	98.224%
65.0	11.271	5.603	1680.181	.317%	98.553%
70.0	10.392	5.485	1685.666	.311%	98.874%
75.0	9.190	5.118	1690.784	.290%	99.175%
80.0	8.641	4.771	1695.555	.270%	99.454%
85.0	8.416	4.635	1700.19	.263%	99.726%
90.0	8.627	4.667	1704.857	.264%	100.000%

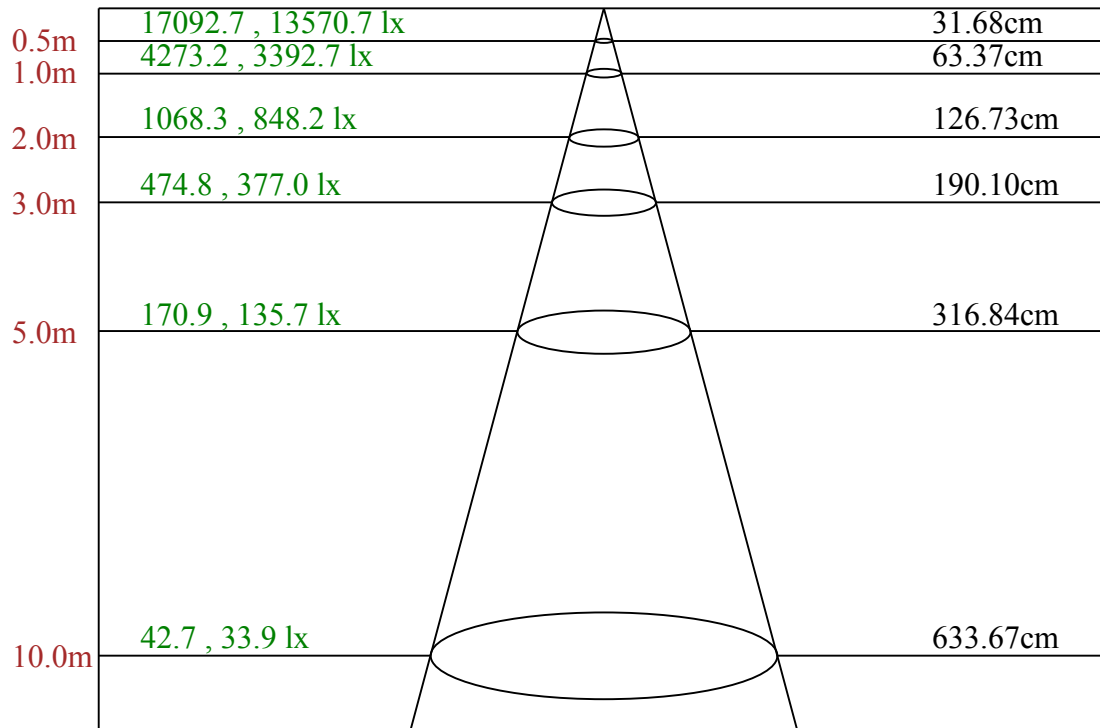
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1469.96	83.28%	86.22%
0-40	1648.66	93.41%	96.70%
0-60	1674.58	94.88%	98.22%
0-90	1700.19	96.33%	99.73%
0-120	1700.19	96.33%	99.73%
0-180	1704.86	96.59%	100.00%
60-90	31.19	1.77%	1.83%
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%
0-26.98	1363.89	77.27%	80.00%

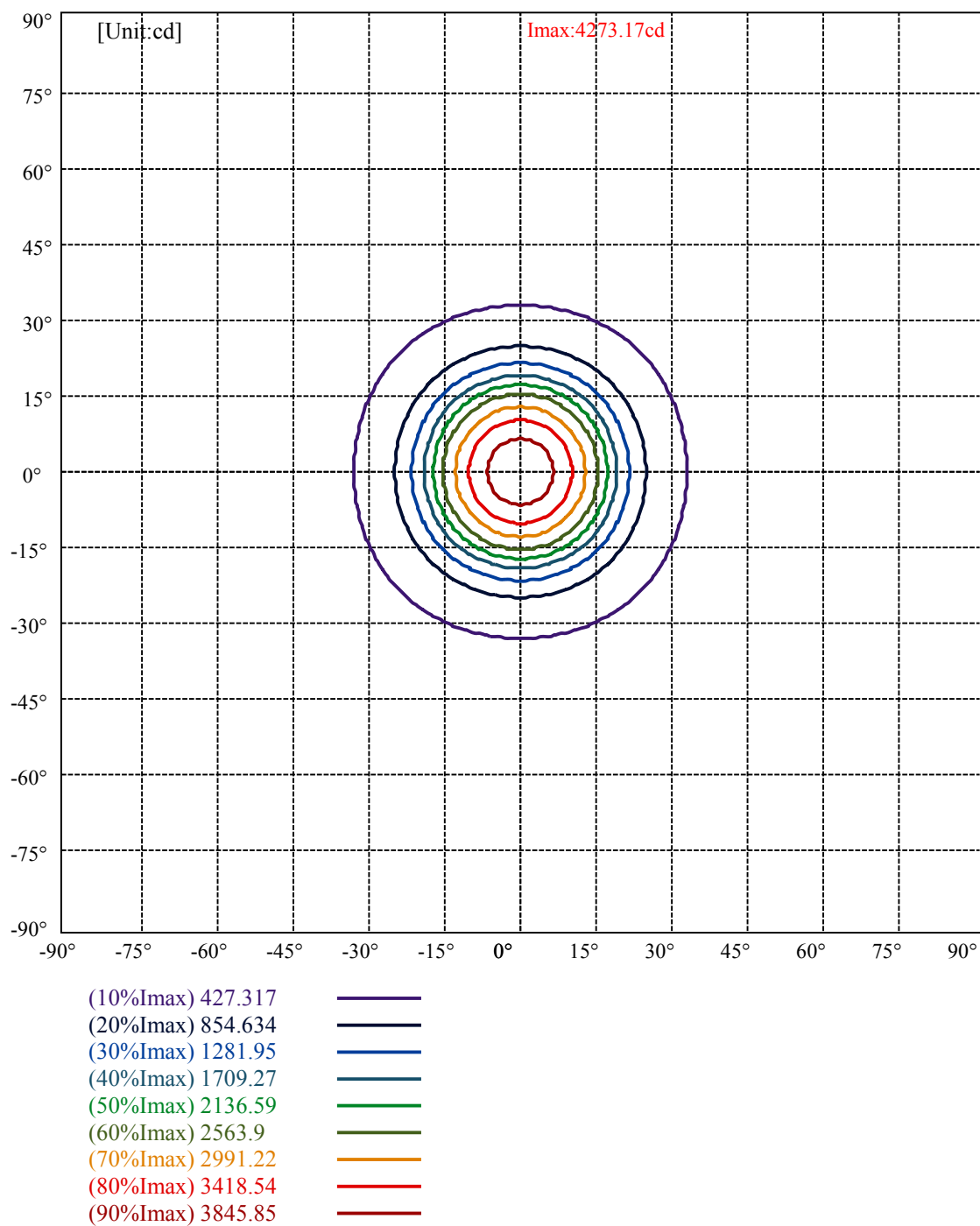
ZONAL LUMEN SUMMARY

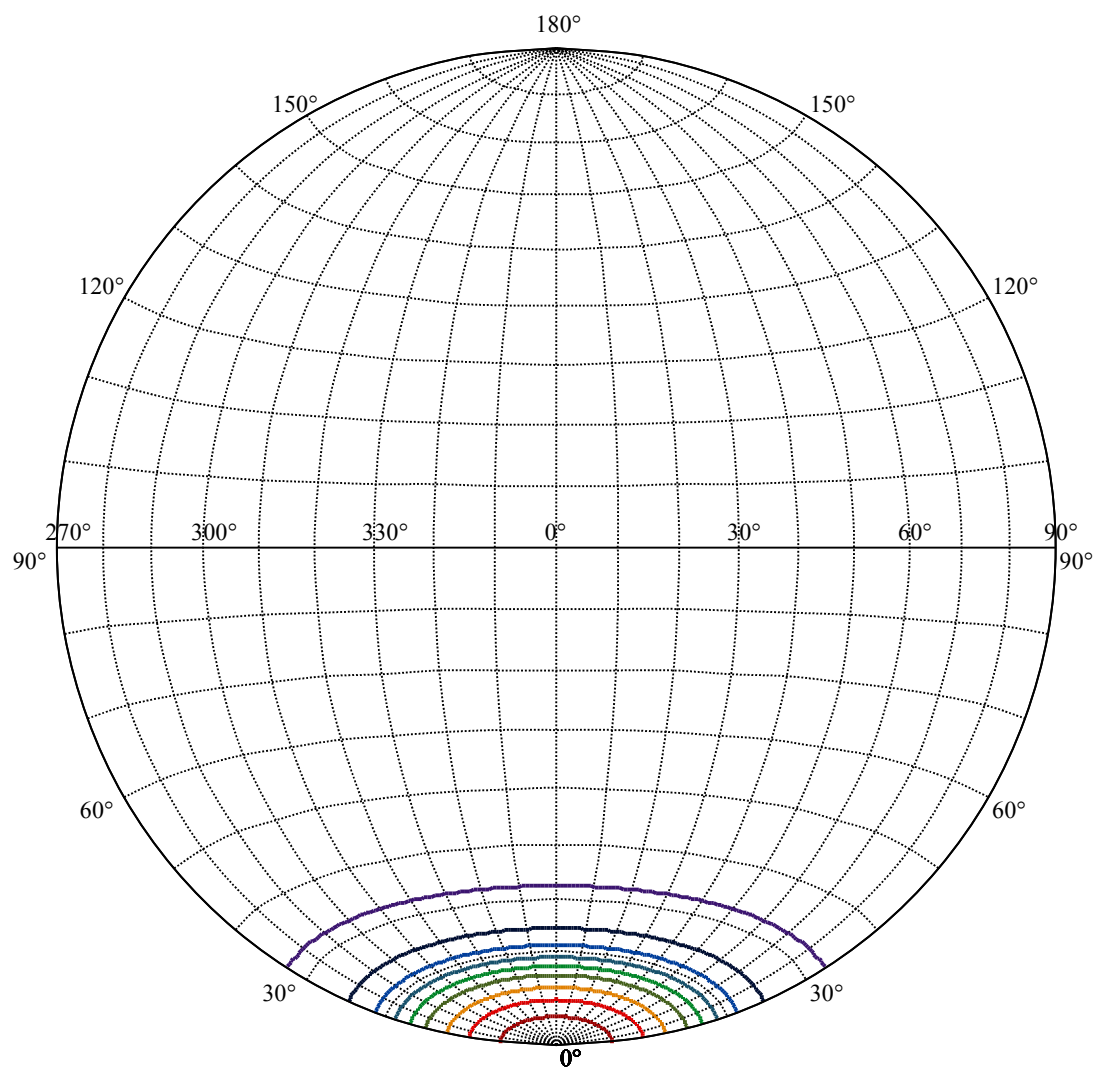
0-10	365.85
10-20	693.17
20-30	410.94
30-40	178.69
40-50	14.73
50-60	11.19
60-70	11.09
70-80	9.89
80-90	4.64
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 35.16





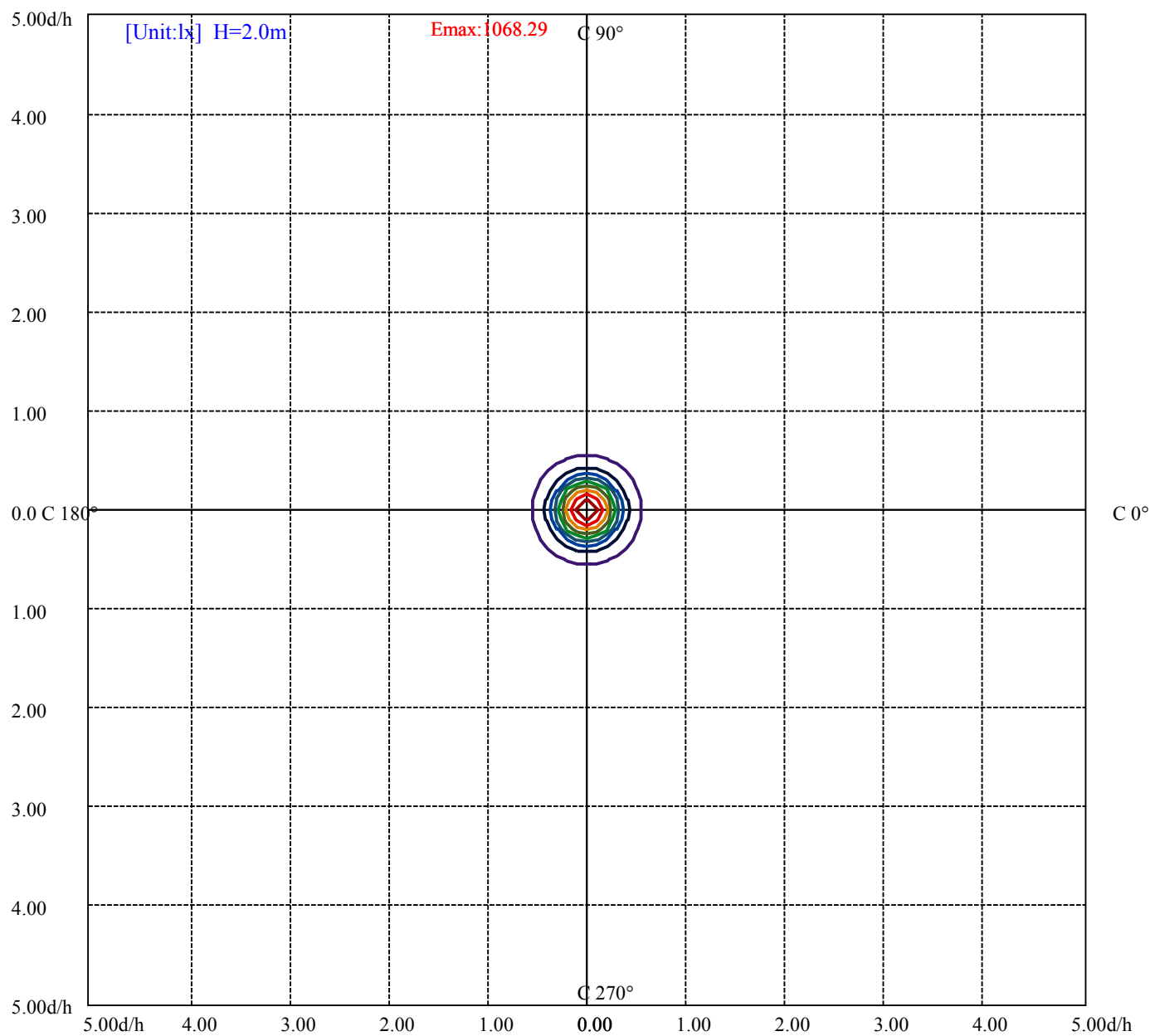
House

[Unit:cd]

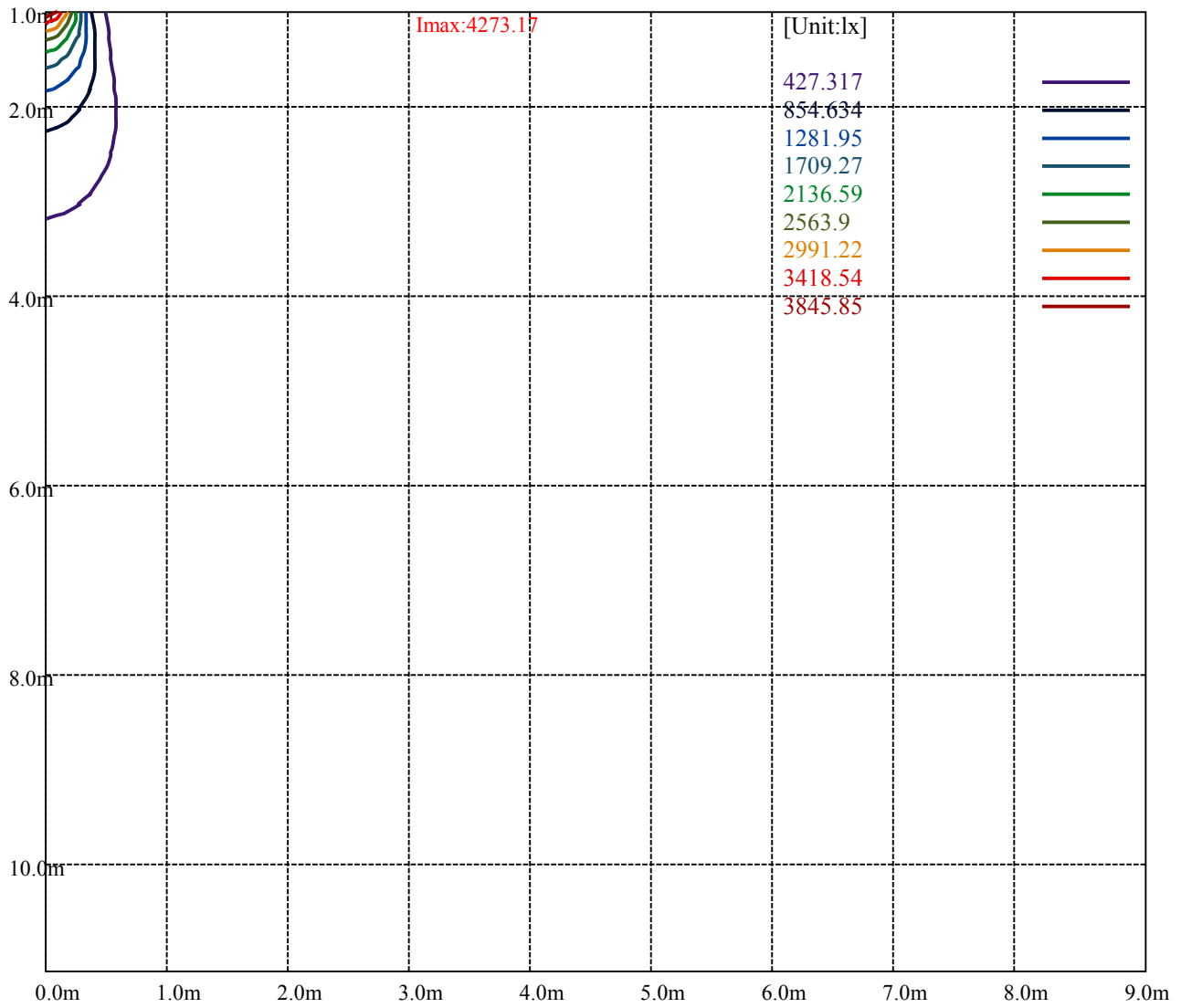
Road

Imax:4273.17

(10%Imax)	427.317	
(20%Imax)	854.634	
(30%Imax)	1281.95	
(40%Imax)	1709.27	
(50%Imax)	2136.59	
(60%Imax)	2563.9	
(70%Imax)	2991.22	
(80%Imax)	3418.54	
(90%Imax)	3845.85	



(10%E _{max}) 106.829	—
(20%E _{max}) 213.6582	—
(30%E _{max}) 320.4875	—
(40%E _{max}) 427.3175	—
(50%E _{max}) 534.145	—
(60%E _{max}) 640.975	—
(70%E _{max}) 747.8025	—
(80%E _{max}) 854.6325	—
(90%E _{max}) 961.4625	—



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

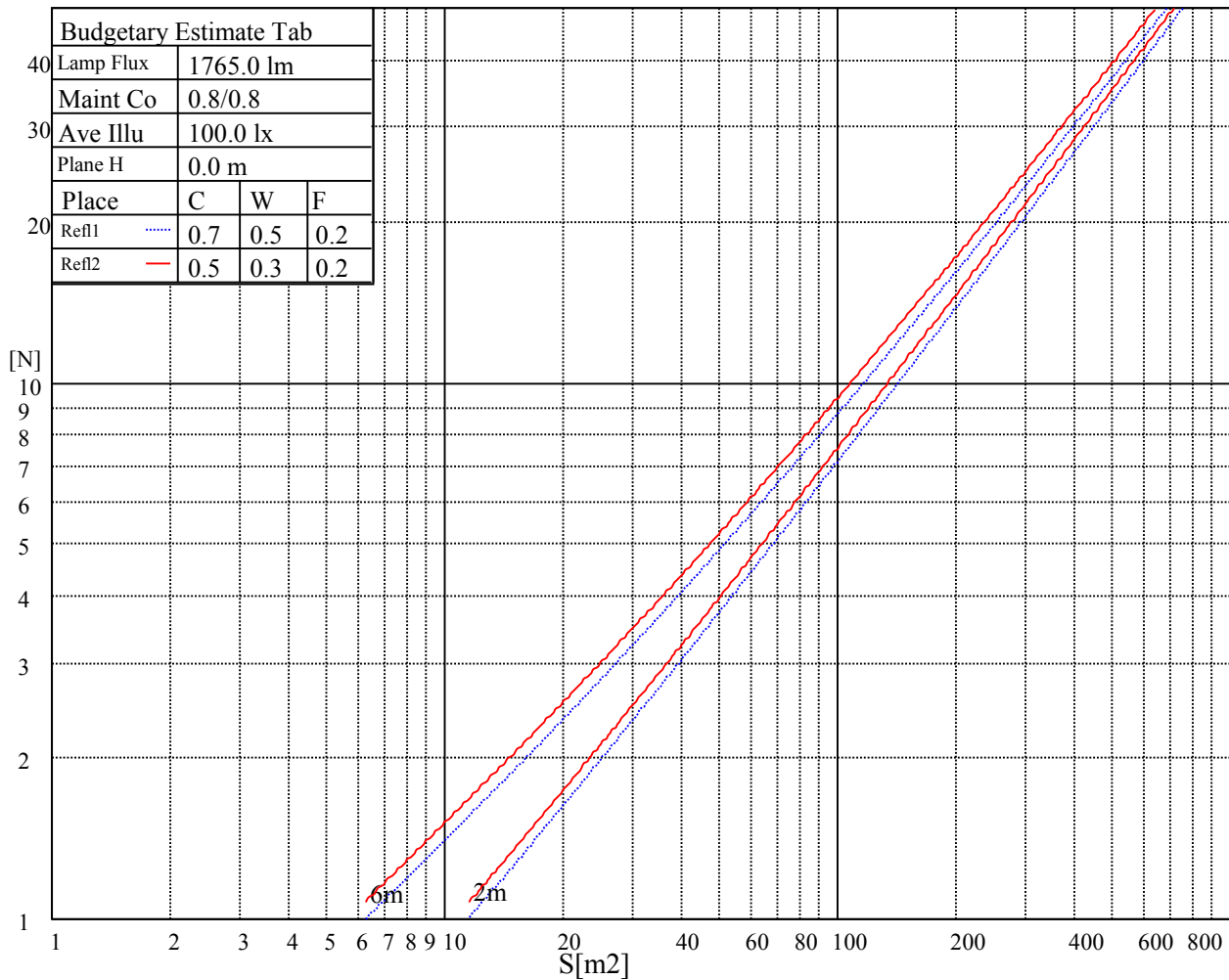
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

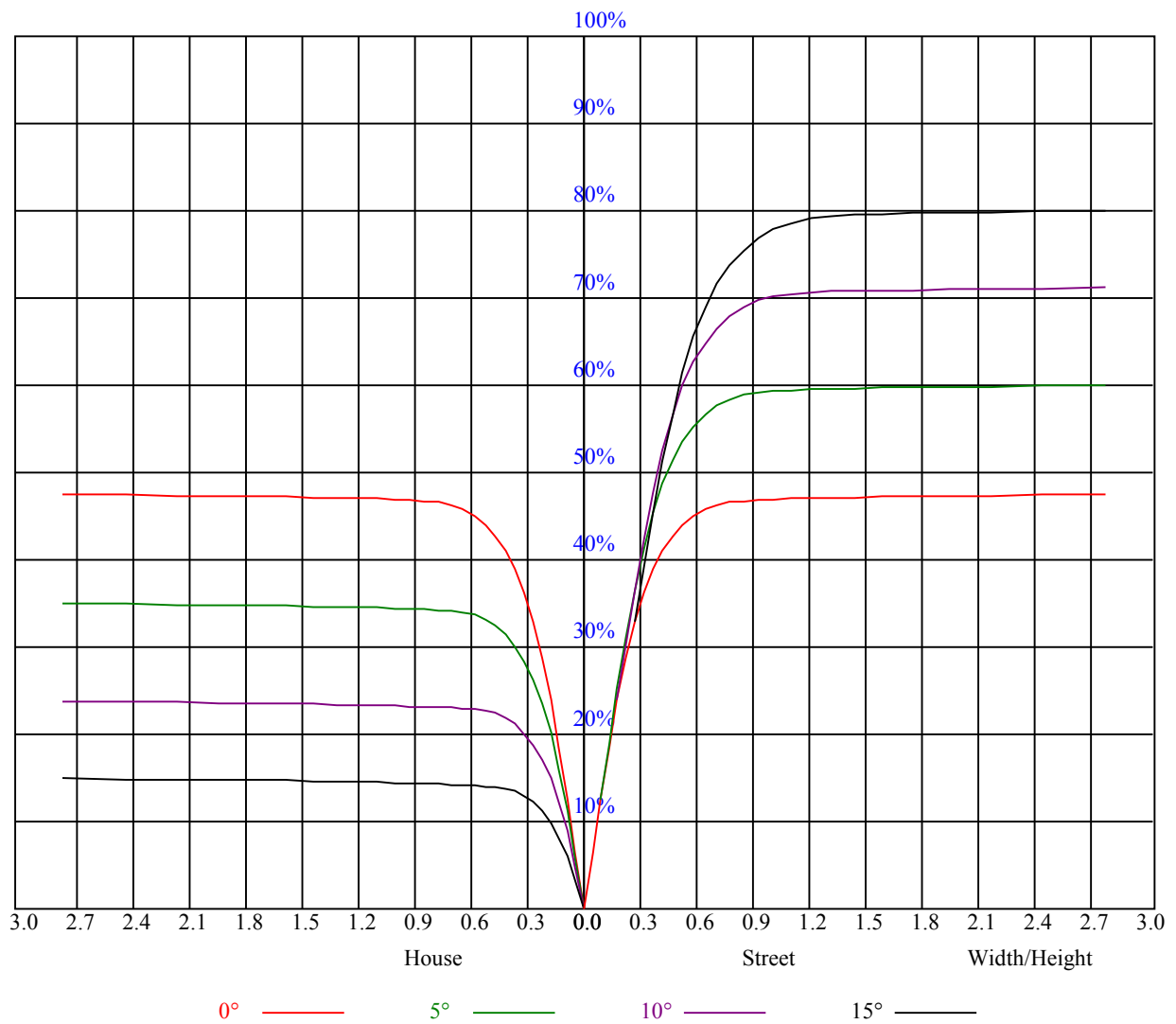
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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 RHOFC=20 CU															
0	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.08	1.05	1.04	1.06	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.91
2	1.01	0.98	0.95	1.00	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.90	0.88	0.87
3	0.96	0.92	0.89	0.95	0.91	0.88	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.82
4	0.91	0.87	0.83	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.85	0.82	0.80	0.79
5	0.87	0.82	0.79	0.86	0.81	0.78	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.75
6	0.83	0.78	0.75	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.74	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.69
8	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.66
9	0.73	0.68	0.65	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.63
10	0.70	0.65	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61



Intensity data(cd)										Appendix Page: 14 Total:14	
C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	4305.38	4115.25	3505.50	2679.19	1753.88	962.44	666.56	315.00	38.14		
45.0	4255.88	4133.25	3577.50	2675.25	1736.44	903.94	636.75	331.31	45.17		
90.0	4275.56	4172.63	3795.19	2684.25	1095.64	700.14	566.66	302.96	29.19		
135.0	4255.88	4220.44	3911.63	3012.75	1708.88	781.88	582.75	344.81	38.87		
180.0	4305.38	4026.38	3332.25	2543.63	1561.50	828.68	612.56	235.18	30.83		
225.0	4255.88	3878.44	3156.75	2378.25	1113.81	753.08	572.18	214.99	26.33		
270.0	4275.56	3909.94	3142.13	2548.13	1496.81	730.69	560.81	300.38	21.71		
315.0	4255.88	3713.63	3049.31	2382.19	1098.34	720.79	524.14	160.20	19.13		
360.0	4305.38	4115.25	3505.50	2679.19	1753.88	962.44	666.56	315.00	38.14		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	20.14	15.47	13.61	12.71	11.81	10.63	9.34	8.55	8.33		
45.0	19.63	15.13	13.50	12.66	11.98	10.97	9.51	8.78	8.49		
90.0	14.23	12.43	11.76	11.31	11.03	10.41	9.28	8.72	8.49		
135.0	14.74	12.66	11.76	11.36	10.97	10.46	9.23	8.61	8.38		
180.0	18.45	14.91	13.16	12.32	11.53	10.35	9.00	8.49	8.33		
225.0	15.47	13.73	12.49	11.76	11.31	10.24	9.11	8.72	8.49		
270.0	13.33	11.93	11.19	10.86	10.69	10.13	9.17	8.72	8.49		
315.0	12.77	11.64	11.31	11.25	10.86	9.96	8.89	8.55	8.33		
360.0	20.14	15.47	13.61	12.71	11.81	10.63	9.34	8.55	8.33		
C/ γ (°)	90.0										
0.0	8.10										
45.0	8.21										
90.0	8.16										
135.0	8.10										
180.0	11.98										
225.0	8.16										
270.0	8.21										
315.0	8.10										
360.0	8.10										