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Nata

LumCAT: 1-0942-N	
Luminaire: 92.70.259.00	
Report No: 200902-B008	Voltage(V): 36.3100
Test No: 200902-C008	Current(A): 0.2500
LampCAT: LUMINUS CXM-6-AC40	Power (W): 9.0770
Lamp flux(lm): 1033.6	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(feet)(ft.):0.000	Width(feet)(ft.):0.000
Phm Type: C	Height(feet)(ft.):0.000

Photometric Results

Lumens(lm): 761.86
Efficiency(%): 73.71%
Lumens(lm)/Power(W): 83.93
Central intensity(cd): 2099.391
Maximum intensity(cd): 2099.391
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.8
 [C90/270]Total=33.8
Field angle(10%Imax): [C0/180]Total=57.6
 [C90/270]Total=57.6
Maximum s/h(1/2): C0_180=0.55 C90_270=0.55
Maximum s/h(1/4): C0_180=0.56 C90_270=0.56
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 74.85%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.817%

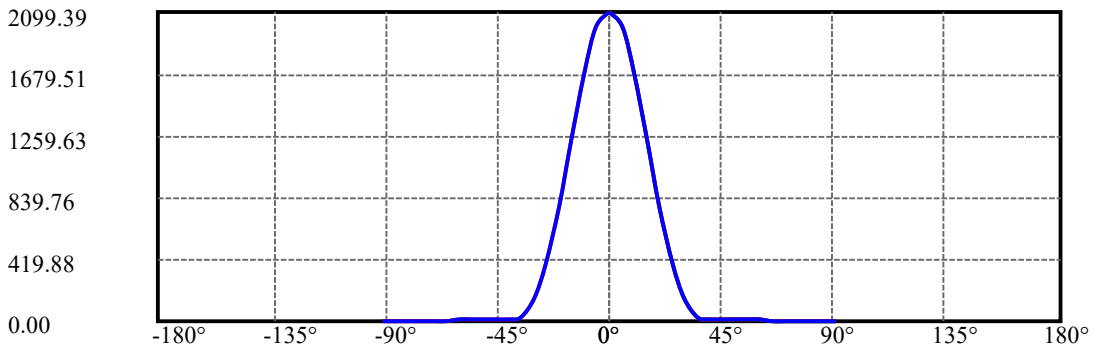
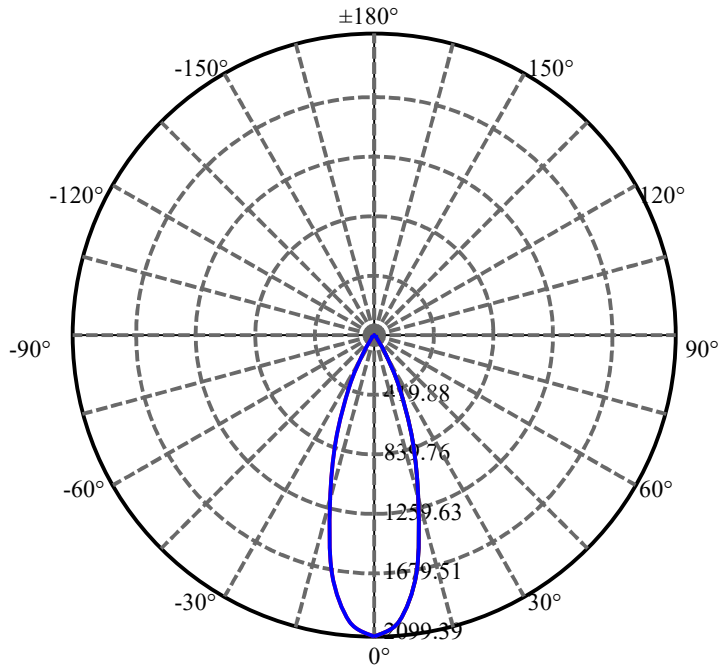
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2099.391	12.555	12.555	1.215%	1.648%
5.0	1997.156	95.411	107.966	9.231%	14.171%
10.0	1683.000	160.193	268.159	15.498%	35.198%
15.0	1211.182	171.828	439.987	16.624%	57.751%
20.0	784.568	147.086	587.073	14.230%	77.057%
25.0	396.949	91.954	679.028	8.896%	89.127%
30.0	150.272	41.185	720.212	3.984%	94.533%
35.0	24.476	7.695	727.908	.744%	95.543%
40.0	15.363	5.413	733.321	.524%	96.253%
45.0	11.911	4.617	737.937	.447%	96.859%
50.0	9.858	4.139	742.077	.400%	97.403%
55.0	8.269	3.713	745.789	.359%	97.890%
60.0	6.905	3.278	749.067	.317%	98.320%
65.0	5.660	2.812	751.879	.272%	98.689%
70.0	4.866	2.506	754.385	.242%	99.018%
75.0	4.352	2.304	756.689	.223%	99.321%
80.0	4.078	2.201	758.891	.213%	99.610%
85.0	3.705	2.023	760.914	.196%	99.875%
90.0	3.466	0.950	761.864	.092%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	720.21	69.68%	94.53%
0-40	733.32	70.95%	96.25%
0-60	749.07	72.47%	98.32%
0-90	760.91	73.62%	99.88%
0-120	760.91	73.62%	99.88%
0-180	761.86	73.71%	100.00%
60-90	15.12	1.46%	1.99%
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%
0-21.22	609.49	58.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	268.16
10-20	318.91
20-30	133.14
30-40	13.11
40-50	8.76
50-60	6.99
60-70	5.32
70-80	4.51
80-90	2.02
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: —————

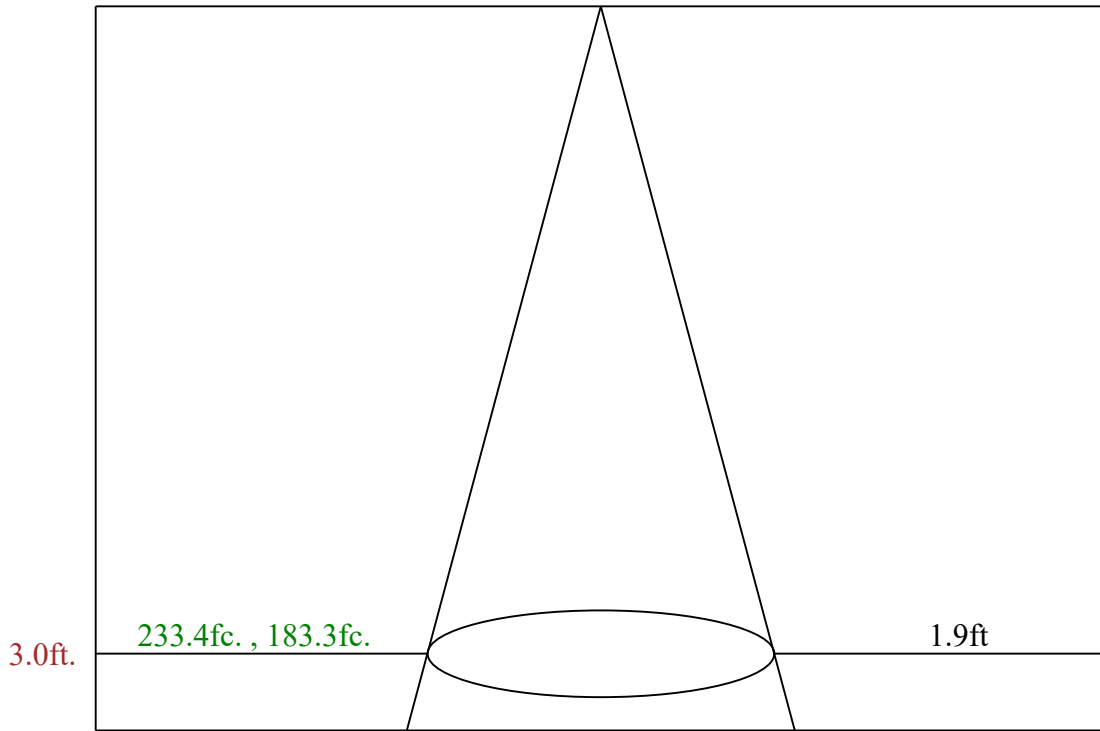
C90/C270: —————

Field angle(10%Imax):C0/180Left:28.8 Right:28.8

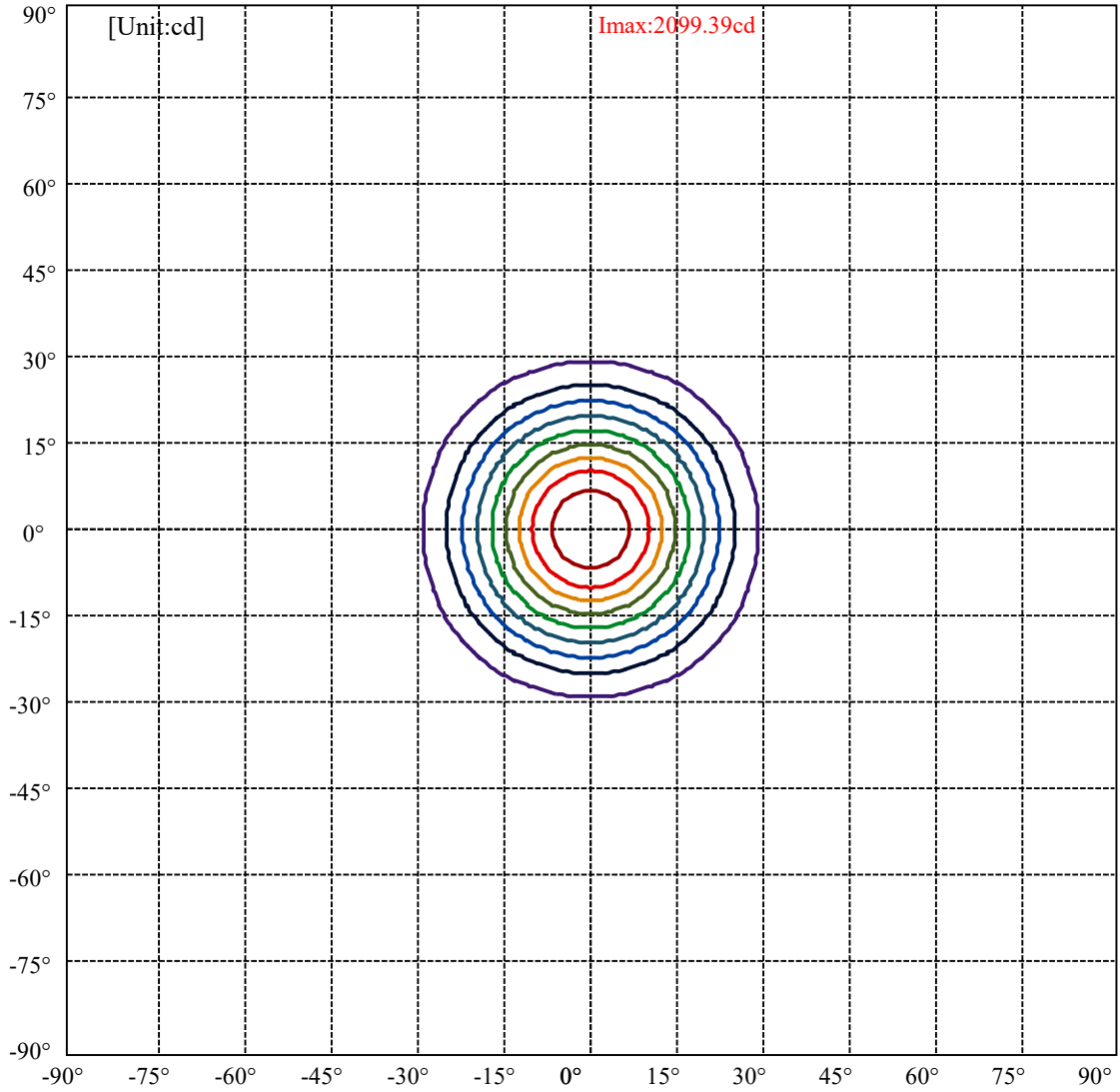
:C90/270Left:28.8 Right:28.8

Beam Angle(50%Imax):C0/180Left:16.9 Right:16.9

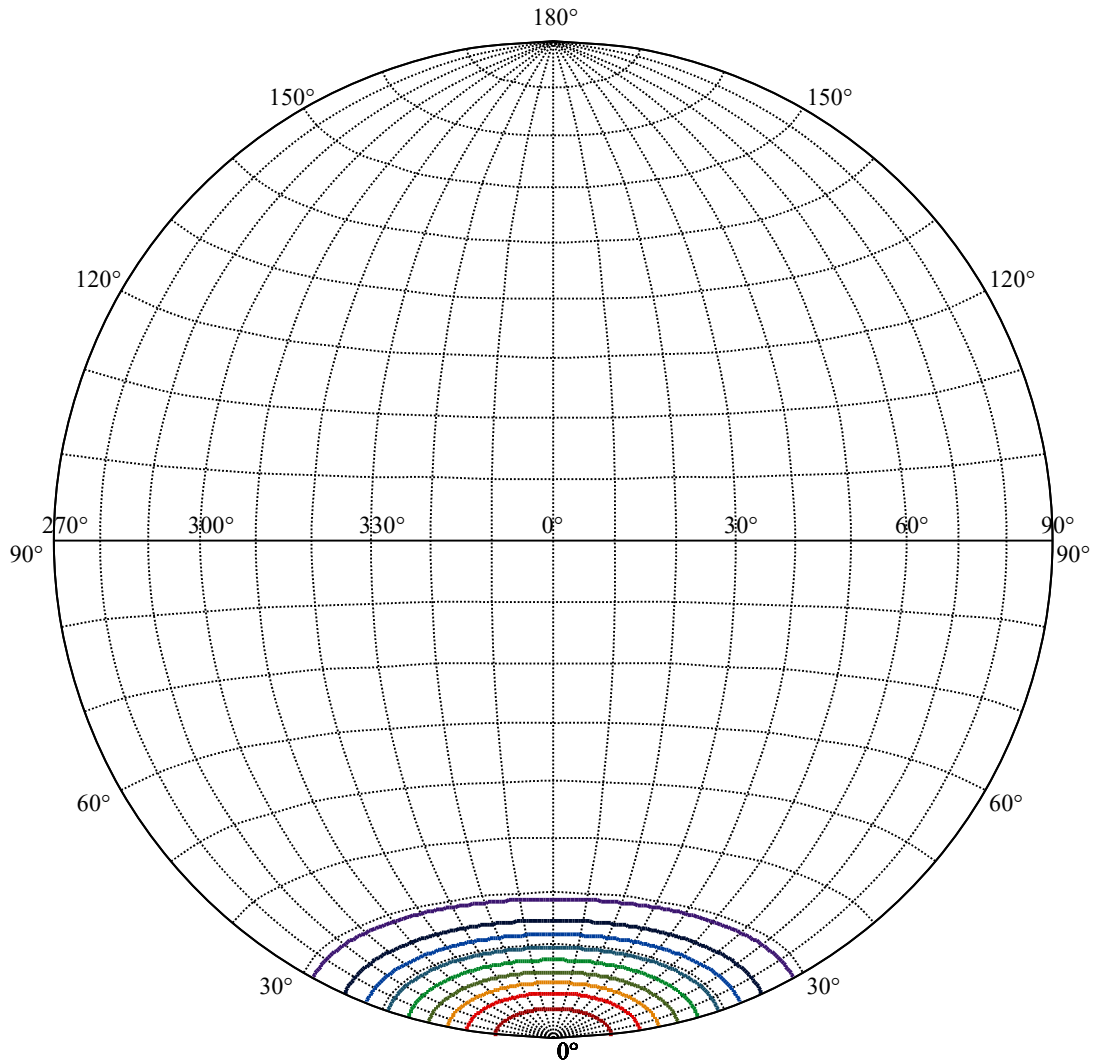
:C90/270Left:16.9 Right:16.9



Max , Ave Beam angle of C0 plane 34.98



(10%Imax) 209.939	—
(20%Imax) 419.878	—
(30%Imax) 629.817	—
(40%Imax) 839.756	—
(50%Imax) 1049.7	—
(60%Imax) 1259.63	—
(70%Imax) 1469.57	—
(80%Imax) 1679.51	—
(90%Imax) 1889.45	—



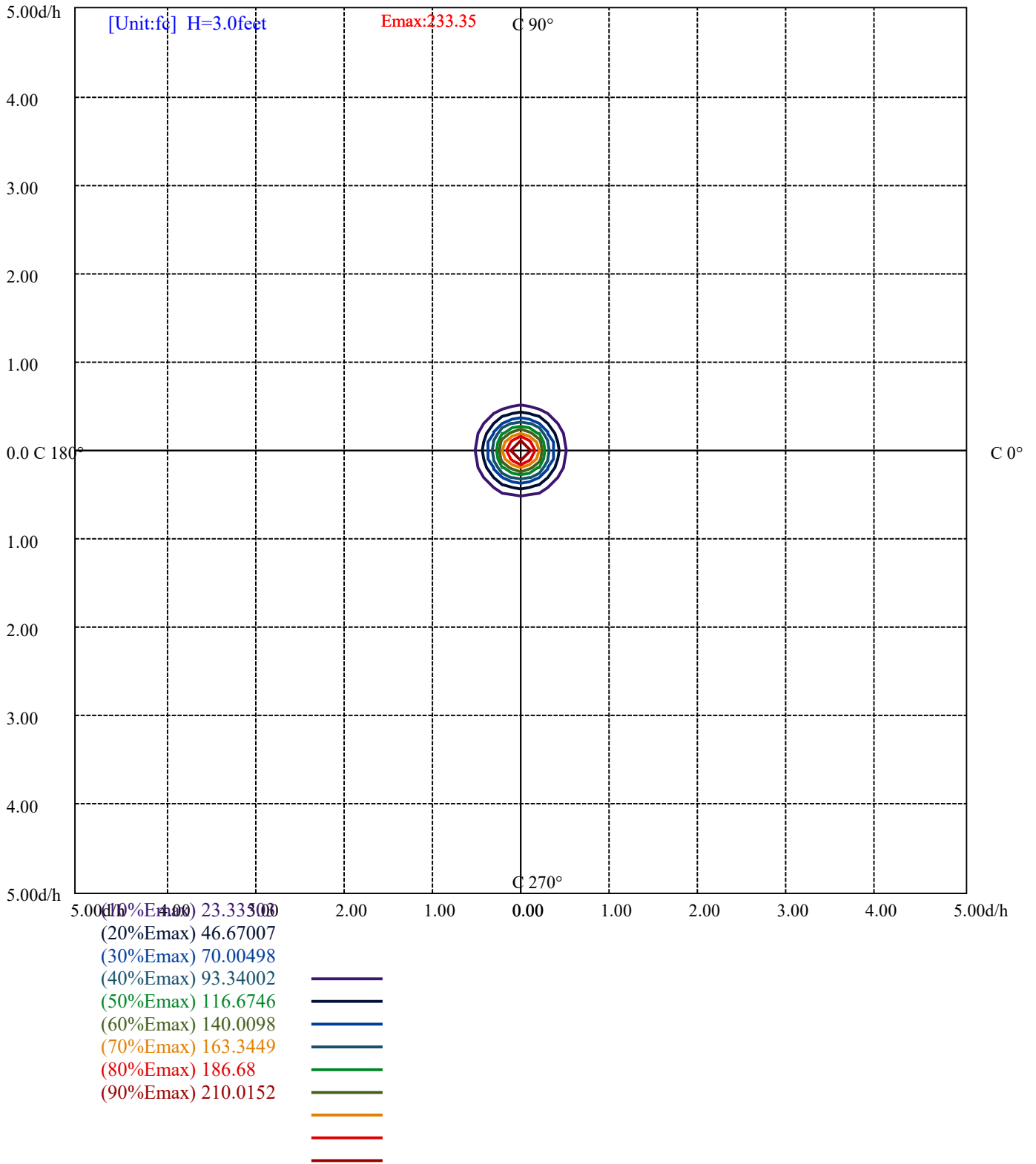
House

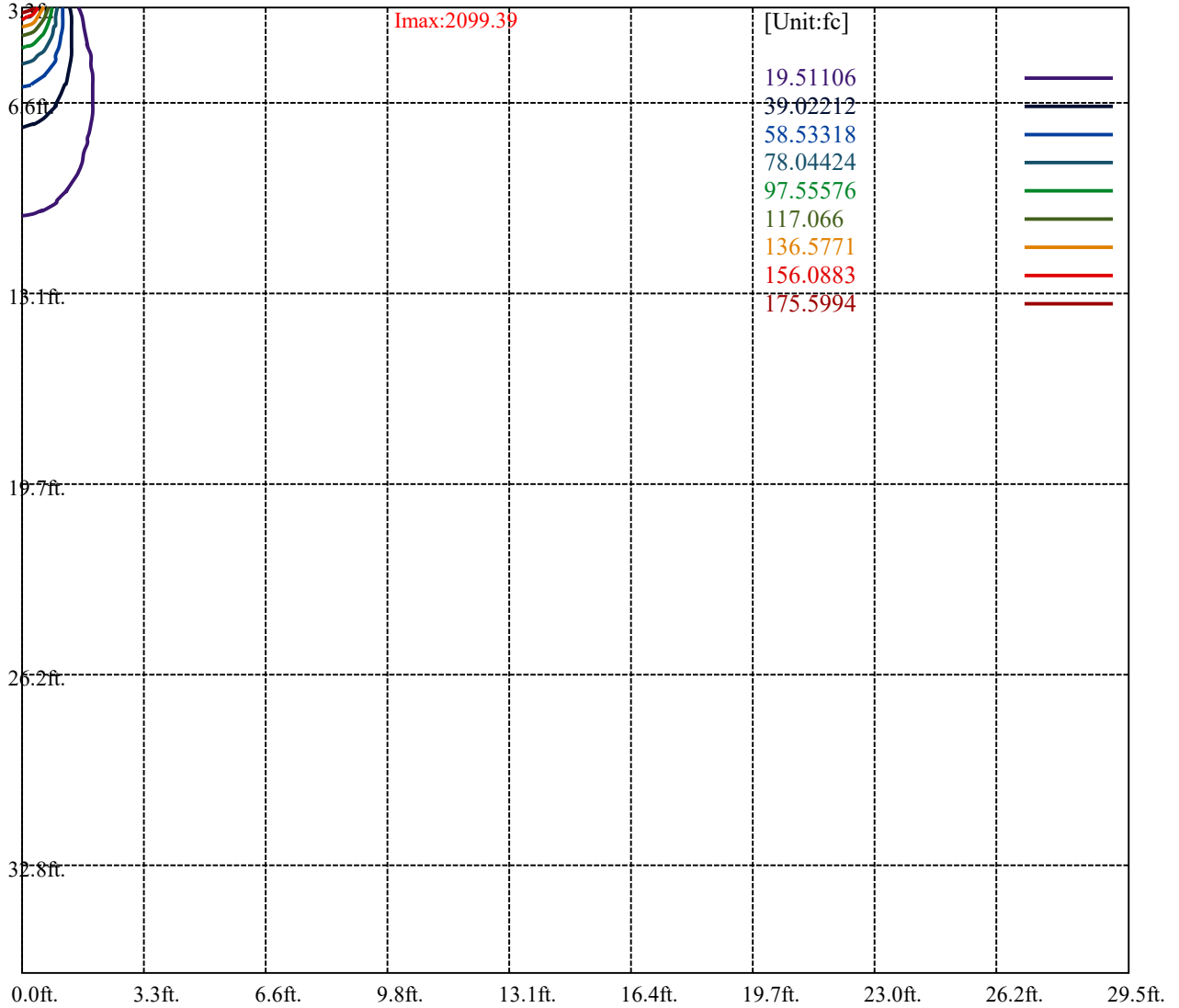
[Unit:cd]

Road

Imax:2099.39

(10%Imax) 209.939	—
(20%Imax) 419.878	—
(30%Imax) 629.817	—
(40%Imax) 839.756	—
(50%Imax) 1049.7	—
(60%Imax) 1259.63	—
(70%Imax) 1469.57	—
(80%Imax) 1679.51	—
(90%Imax) 1889.45	—





Luminance Table

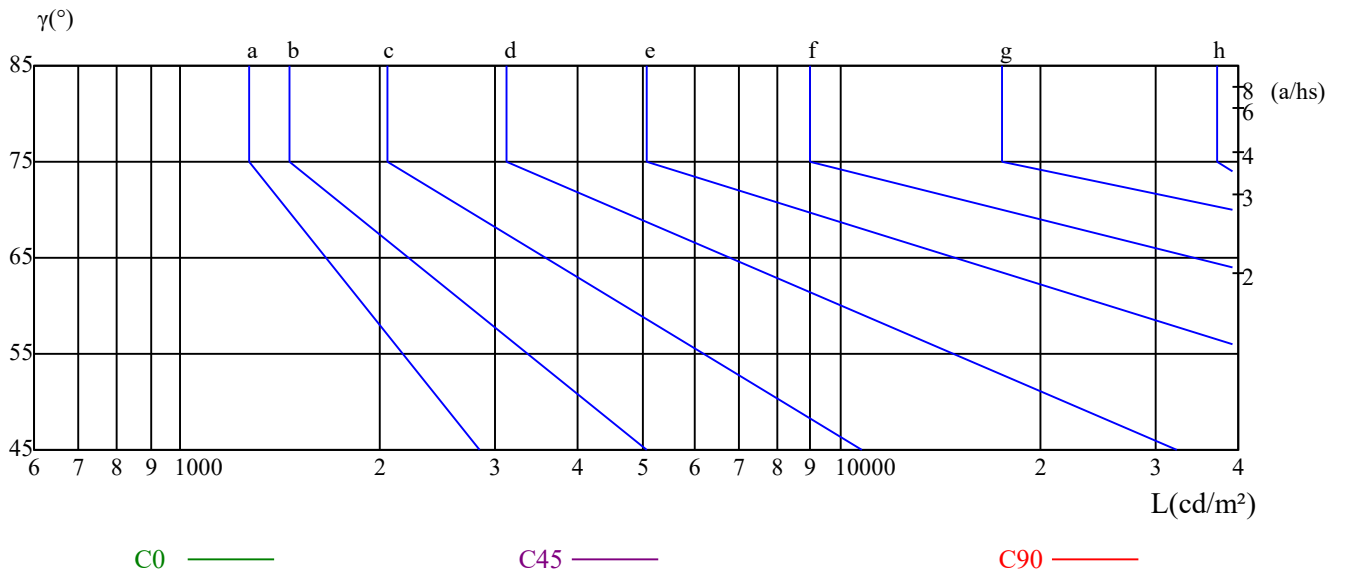
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

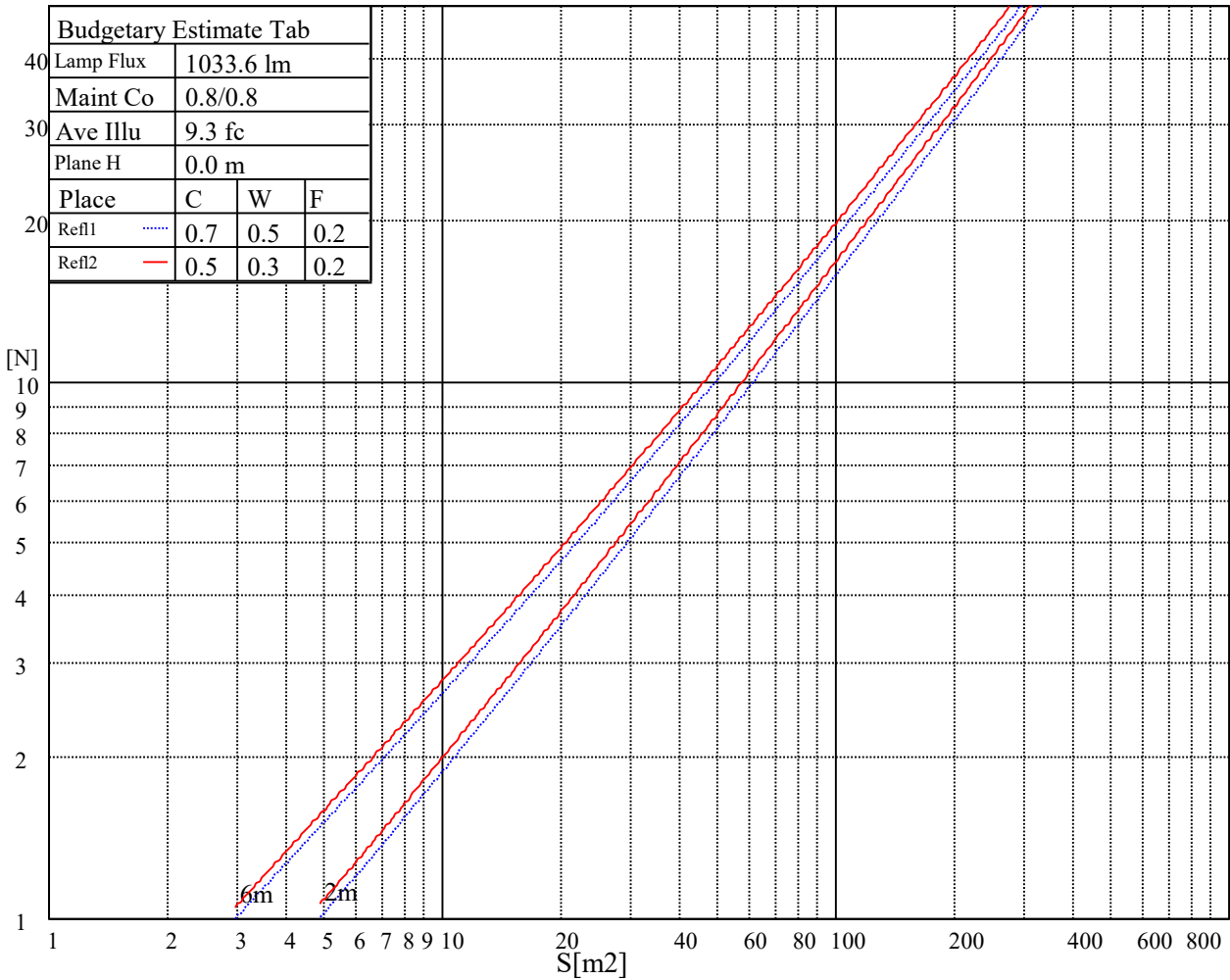
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

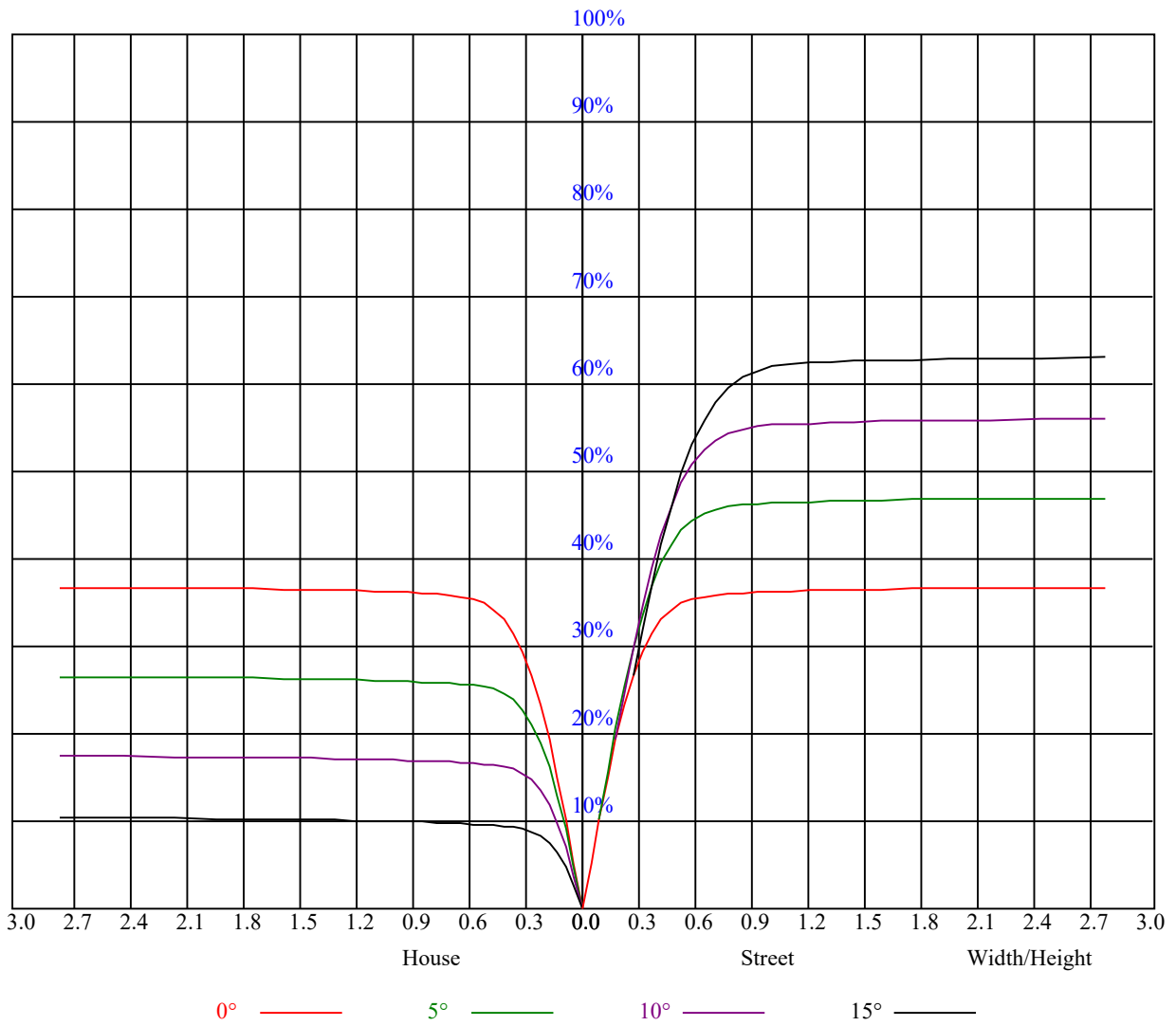
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	0.89	0.89	0.89	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.76	0.76	0.76	0.75
1	0.83	0.81	0.79	0.81	0.79	0.78	0.78	0.76	0.75	0.75	0.74	0.73	0.72	0.72	0.71	0.69
2	0.78	0.76	0.73	0.77	0.75	0.72	0.75	0.73	0.71	0.72	0.71	0.69	0.70	0.69	0.68	0.67
3	0.75	0.72	0.69	0.74	0.71	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.68	0.67	0.65	0.64
4	0.72	0.68	0.66	0.71	0.68	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.67	0.65	0.63	0.62
5	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.63	0.62	0.65	0.63	0.61	0.60
6	0.66	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.58
7	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.58	0.61	0.59	0.57	0.56
8	0.62	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.60	0.57	0.56	0.55
9	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.53
10	0.58	0.55	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.53	0.57	0.54	0.53	0.52



Intensity data(cd)

C/ γ ($^{\circ}$)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2098.69	2041.88	1798.31	1374.19	901.69	496.13	291.94	30.04	15.86
45.0	2099.81	2014.31	1695.38	1268.44	798.19	408.94	128.19	21.88	14.74
90.0	2095.31	1964.81	1605.94	1112.23	712.91	346.67	99.39	19.86	14.68
135.0	2103.75	1997.44	1682.44	1246.50	756.56	374.63	128.25	23.91	15.92
180.0	2098.69	1940.06	1536.19	1108.46	661.73	301.50	88.03	20.76	13.84
225.0	2099.81	1994.06	1683.00	1108.52	779.18	383.12	109.35	24.64	15.58
270.0	2095.31	2032.31	1756.69	1371.94	874.13	457.88	218.03	30.49	16.48
315.0	2103.75	1992.38	1706.06	1099.18	792.17	406.74	138.99	24.24	15.81
360.0	2098.69	2041.88	1798.31	1374.19	901.69	496.13	291.94	30.04	15.86
C/ γ ($^{\circ}$)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	12.15	10.01	8.49	7.20	5.85	4.95	4.39	4.11	3.83
45.0	11.64	9.84	8.33	6.92	5.68	4.89	4.39	3.99	3.71
90.0	11.48	9.62	8.10	6.75	5.57	4.89	4.39	4.33	3.60
135.0	12.32	10.07	8.38	7.03	5.74	4.95	4.39	4.11	3.60
180.0	11.03	9.17	7.71	6.36	5.29	4.61	4.16	3.88	3.54
225.0	12.15	10.13	8.49	7.03	5.79	4.89	4.39	4.05	3.77
270.0	12.54	10.18	8.49	7.03	5.74	4.89	4.39	4.11	3.77
315.0	11.98	9.84	8.16	6.92	5.63	4.84	4.33	4.05	3.83
360.0	12.15	10.01	8.49	7.20	5.85	4.95	4.39	4.11	3.83
C/ γ ($^{\circ}$)	90.0								
0.0	3.49								
45.0	3.49								
90.0	3.43								
135.0	3.43								
180.0	3.49								
225.0	3.49								
270.0	3.43								
315.0	3.49								
360.0	3.49								