



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOU Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

LumCAT: 1-0943-N	
Luminaire: 92.70.259.00	
Report No: 200902-B005	Voltage(V): 36.1800
Test No: 200902-C005	Current(A): 0.2500
LampCAT: LUMINUS CXM-6-AC40	Power (W): 9.0450
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): 764.16
Efficiency(%): 73.93%
Lumens(lm)/Power(W): 84.48
Central intensity(cd): 1498.078
Maximum intensity(cd): 1498.078
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=43.5
 [C90/270]Total=43.5
Field angle(10%Imax): [C0/180]Total=63.8
 [C90/270]Total=63.8
Maximum s/h(1/2): C0_180=0.71 C90_270=0.71
Maximum s/h(1/4): C0_180=0.67 C90_270=0.67
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 74.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.990%

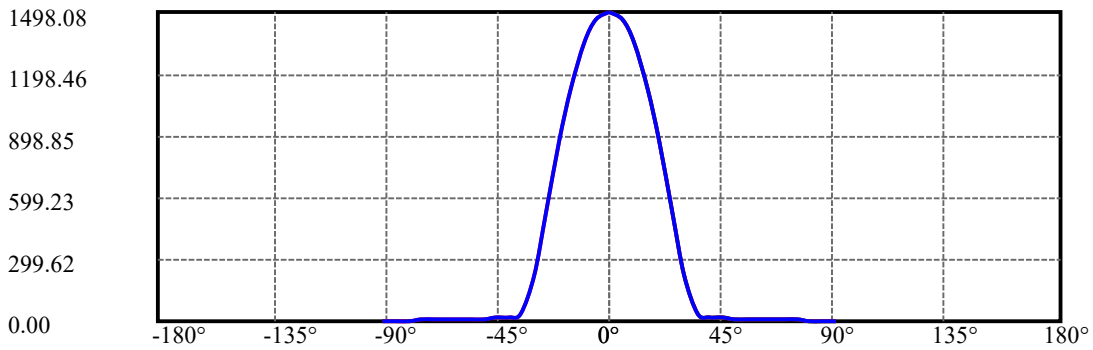
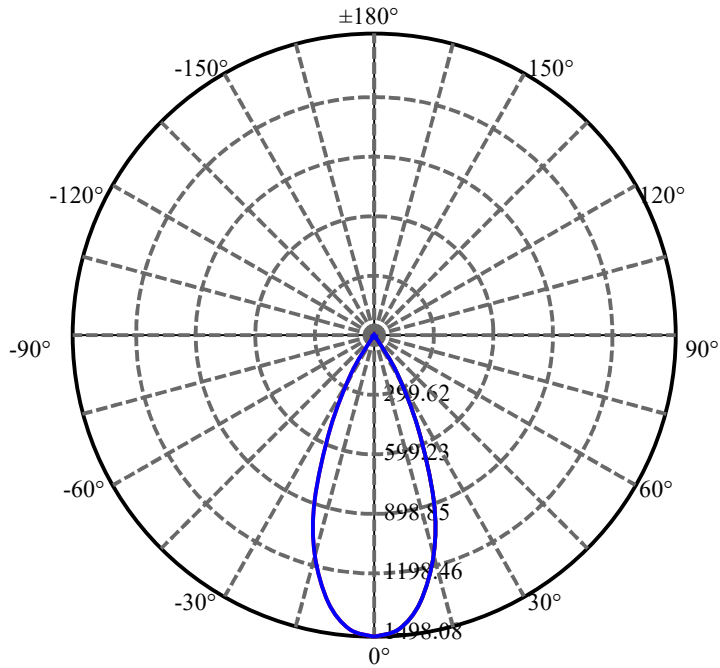
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1498.078	8.959	8.959	.867%	1.172%
5.0	1461.516	69.821	78.78	6.755%	10.309%
10.0	1345.219	128.042	206.822	12.387%	27.065%
15.0	1129.795	160.282	367.105	15.507%	48.040%
20.0	871.854	163.450	530.555	15.813%	69.430%
25.0	519.216	120.278	650.832	11.636%	85.170%
30.0	219.987	60.291	711.124	5.833%	93.060%
35.0	35.606	11.195	722.318	1.083%	94.525%
40.0	21.087	7.430	729.748	.719%	95.497%
45.0	14.899	5.775	735.523	.559%	96.253%
50.0	12.199	5.122	740.645	.496%	96.923%
55.0	10.104	4.537	745.182	.439%	97.517%
60.0	8.346	3.962	749.144	.383%	98.035%
65.0	6.863	3.409	752.553	.330%	98.481%
70.0	5.899	3.039	755.592	.294%	98.879%
75.0	5.196	2.751	758.343	.266%	99.239%
80.0	4.620	2.494	760.836	.241%	99.565%
85.0	4.317	2.357	763.194	.228%	99.874%
90.0	3.523	0.965	764.159	.093%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	711.12	68.80%	93.06%
0-40	729.75	70.60%	95.50%
0-60	749.14	72.48%	98.04%
0-90	763.19	73.84%	99.87%
0-120	763.19	73.84%	99.87%
0-180	764.16	73.93%	100.00%
60-90	18.01	1.74%	2.36%
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%
0-23.36	611.33	59.14%	80.00%

ZONAL LUMEN SUMMARY

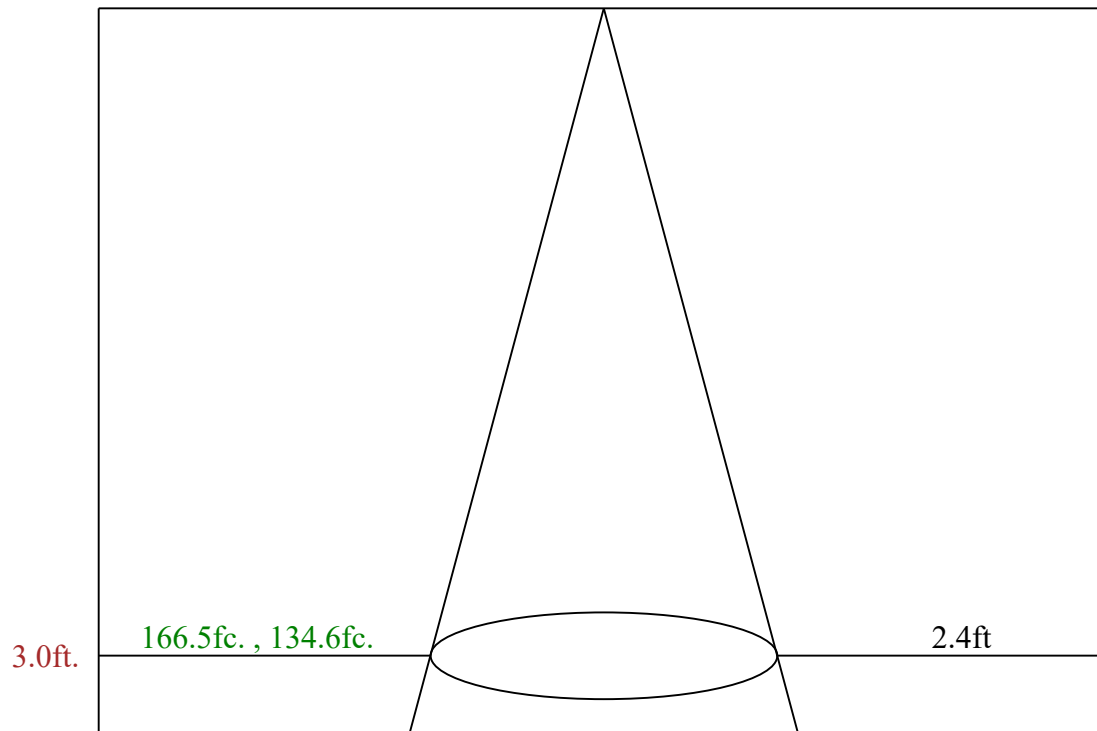
0-10	206.82
10-20	323.73
20-30	180.57
30-40	18.62
40-50	10.90
50-60	8.50
60-70	6.45
70-80	5.24
80-90	2.36
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



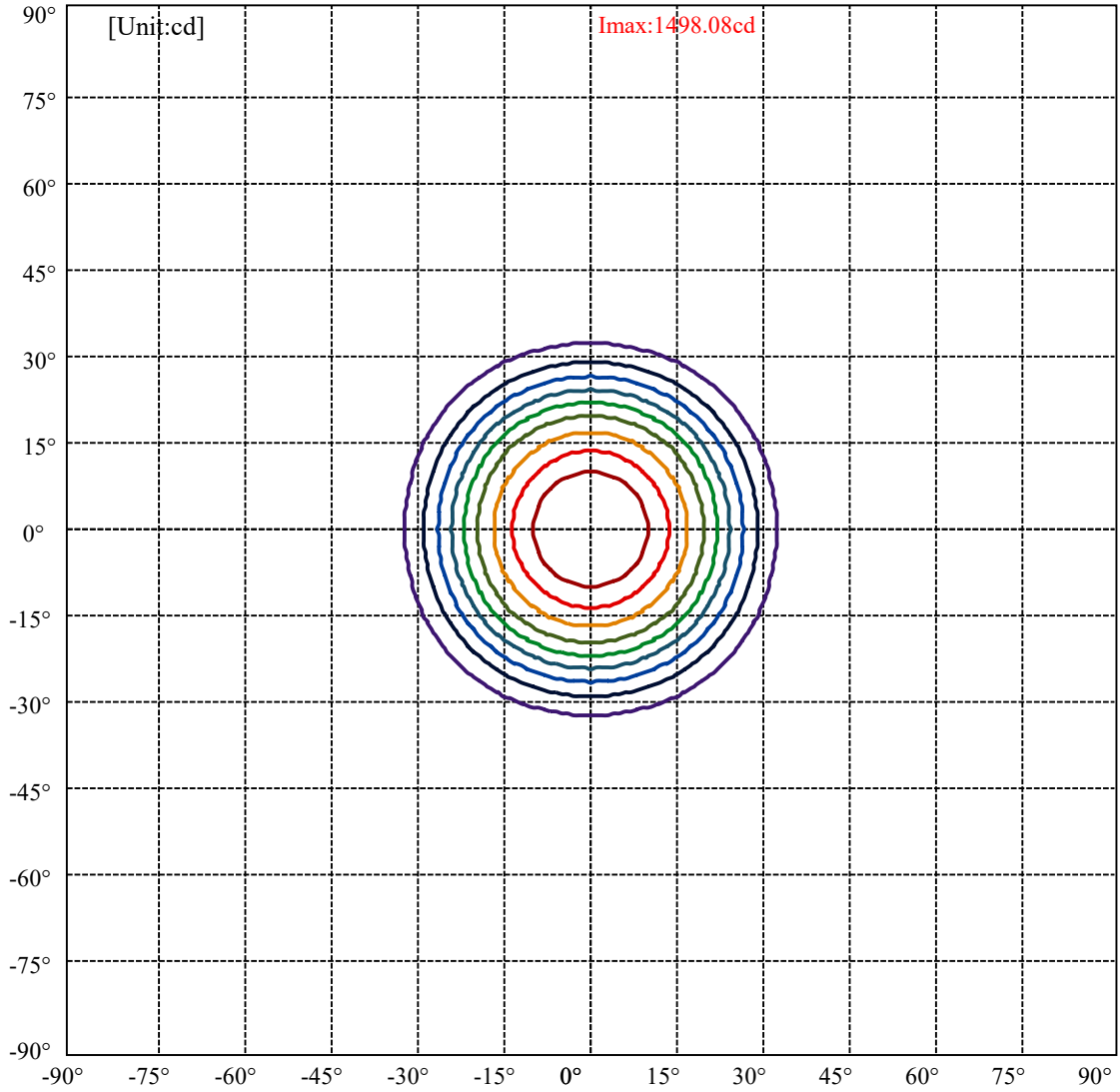
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:31.9 Right:31.9
:C90/270Left:31.9 Right:31.9

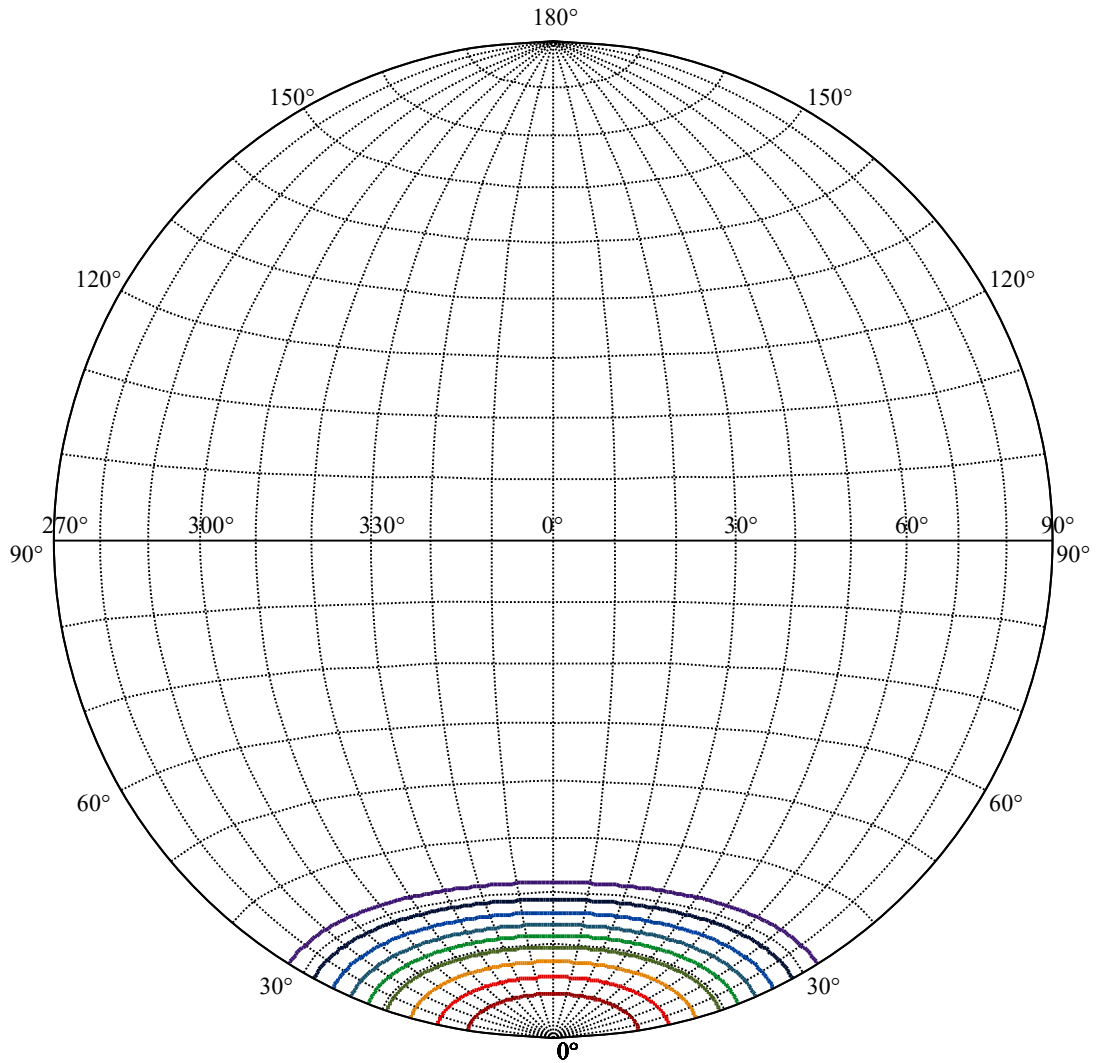
Beam Angle(50%Imax):C0/180Left:21.7 Right:21.7
:C90/270Left:21.7 Right:21.7



Max , Ave Beam angle of C0 plane 44.00



(10%Imax) 149.808	—
(20%Imax) 299.616	—
(30%Imax) 449.423	—
(40%Imax) 599.231	—
(50%Imax) 749.039	—
(60%Imax) 898.847	—
(70%Imax) 1048.65	—
(80%Imax) 1198.46	—
(90%Imax) 1348.27	—



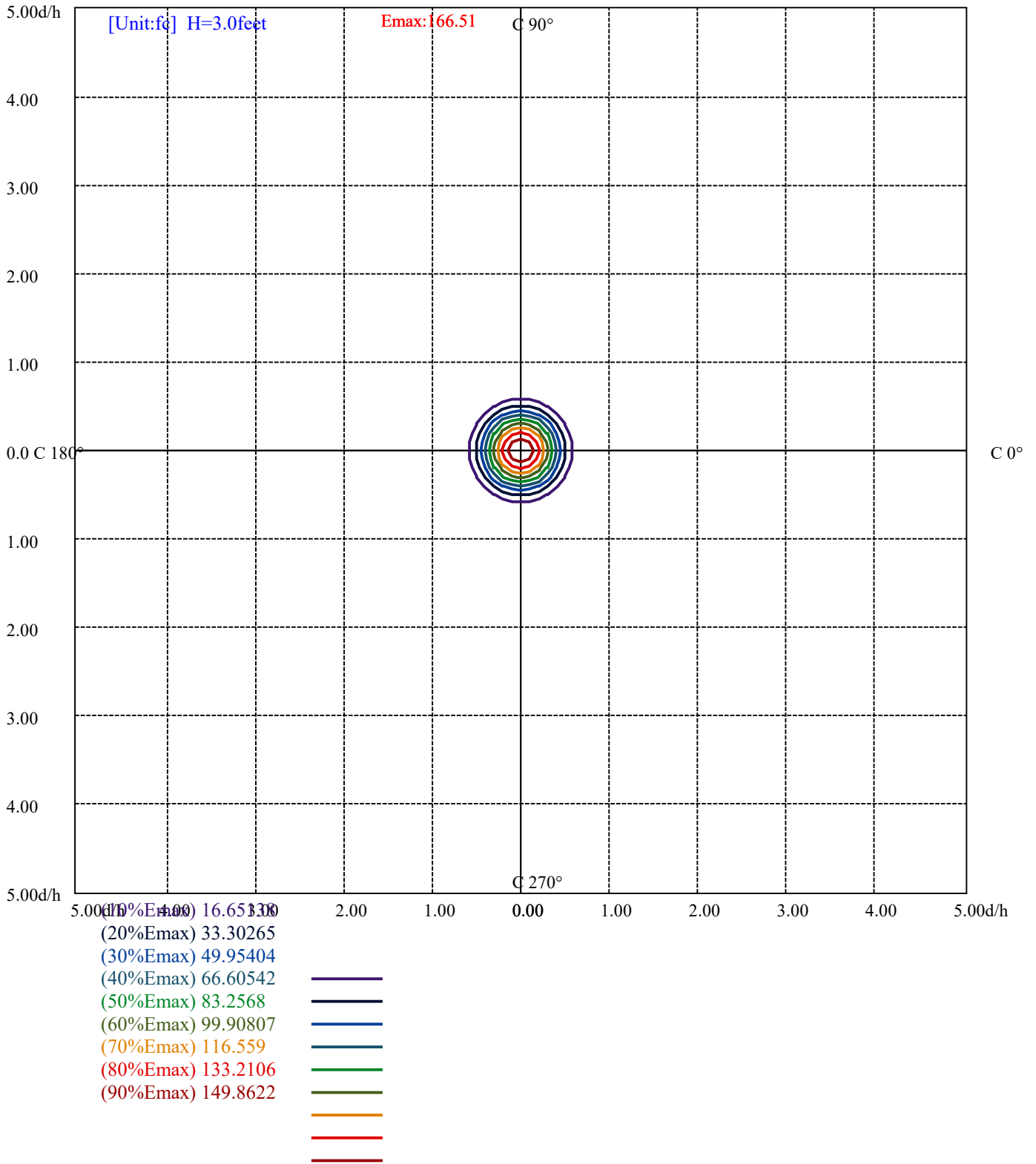
House

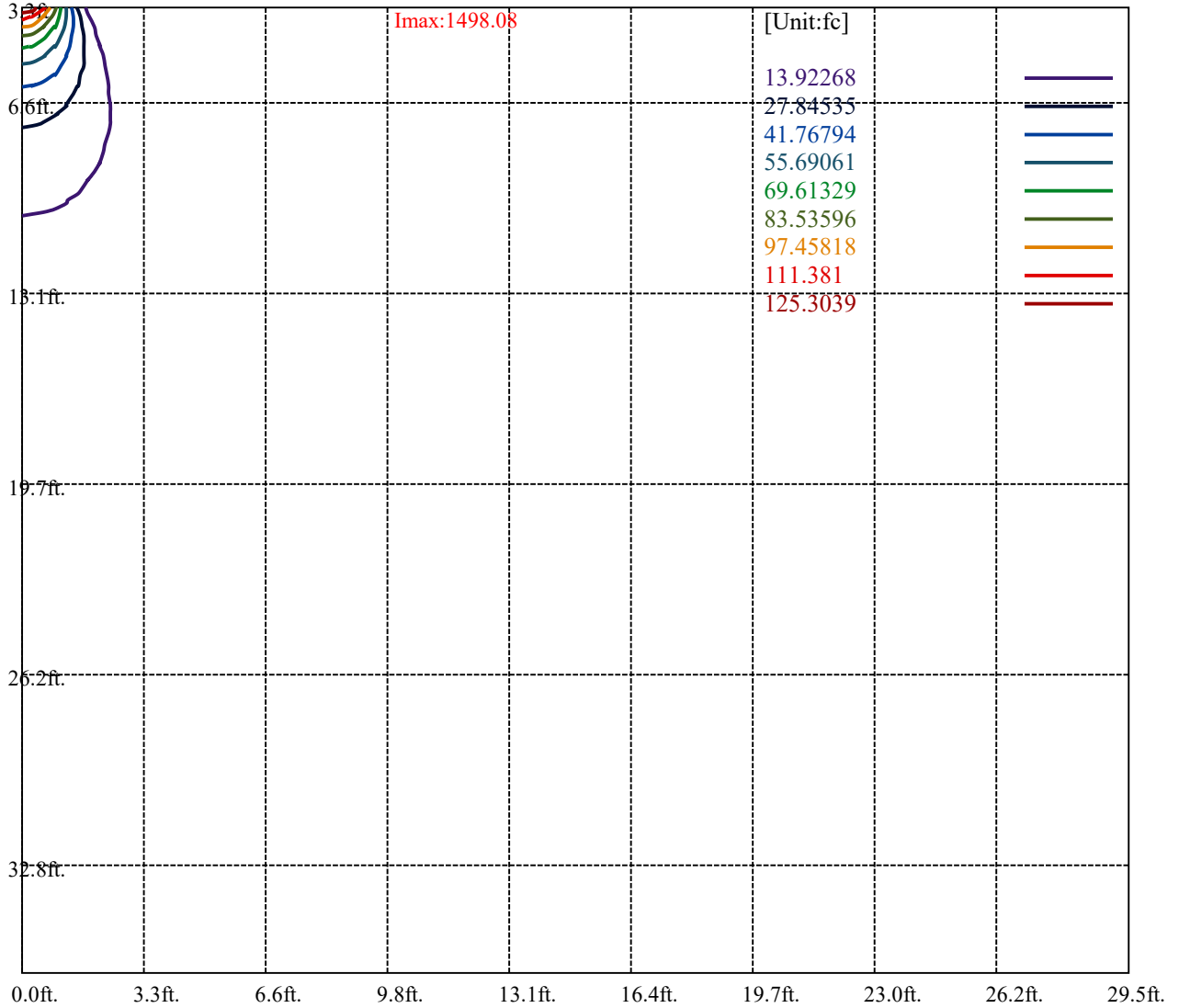
[Unit:cd]

Road

Imax:1498.08

(10%Imax)	149.808	—
(20%Imax)	299.616	—
(30%Imax)	449.423	—
(40%Imax)	599.231	—
(50%Imax)	749.039	—
(60%Imax)	898.847	—
(70%Imax)	1048.65	—
(80%Imax)	1198.46	—
(90%Imax)	1348.27	—





Luminance Table

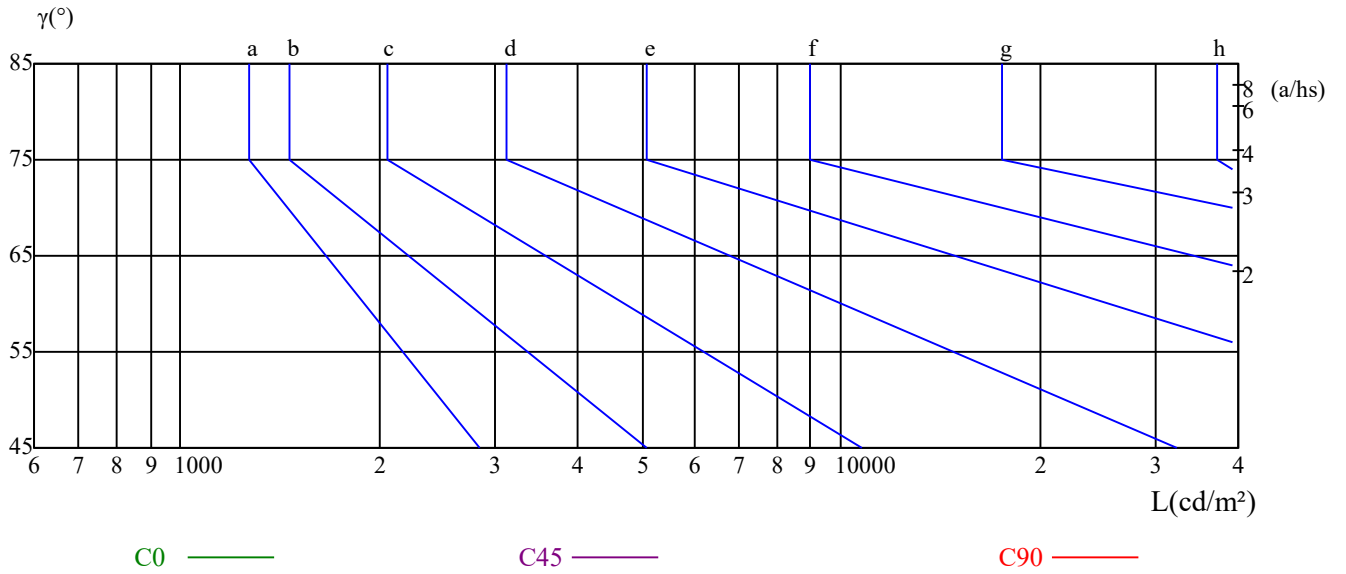
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

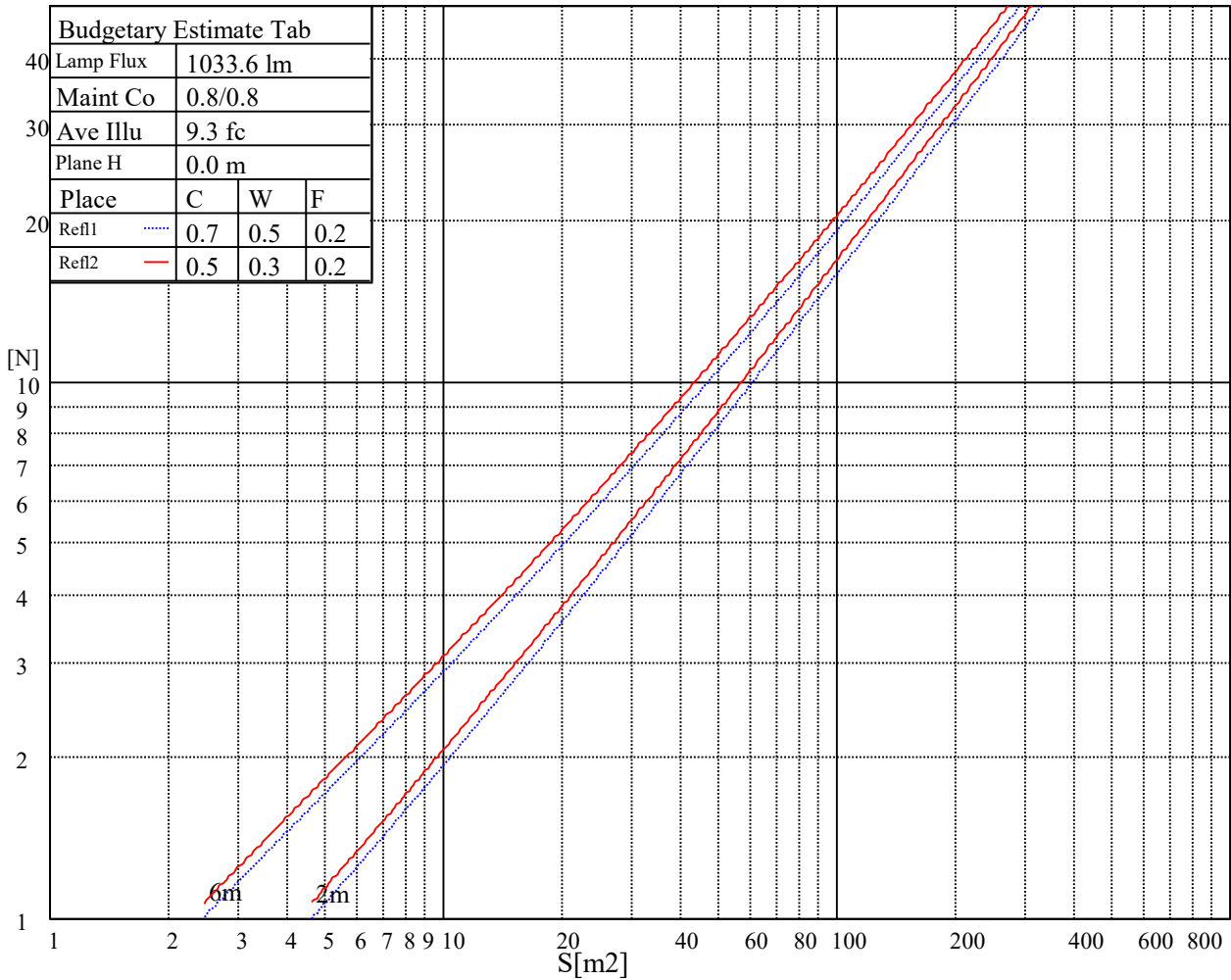
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

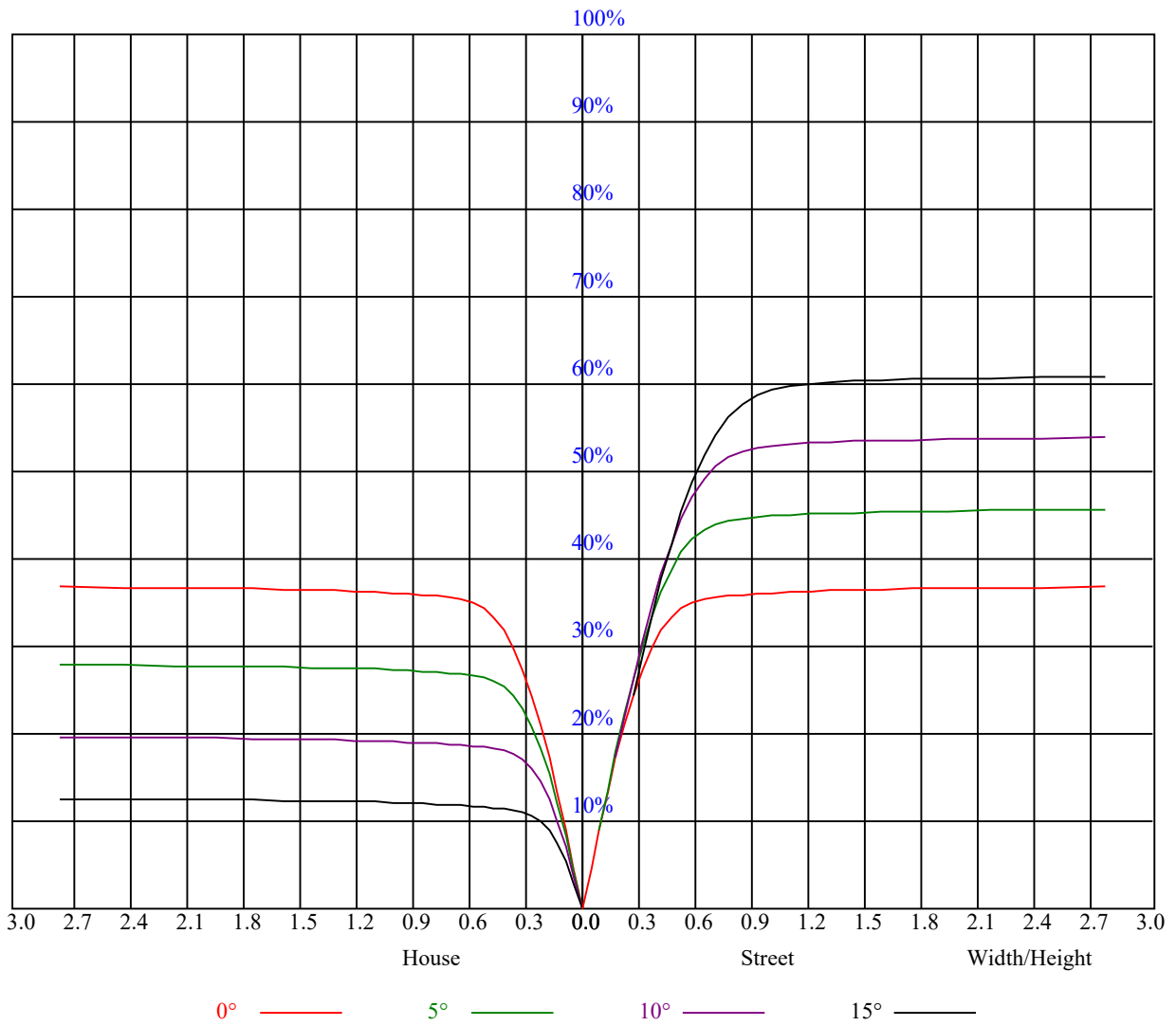
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	0.79	0.79	0.79	0.76	0.76	0.76	0.75
1	0.82	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	0.75	0.73	0.77	0.74	0.72	0.74	0.72	0.70	0.72	0.70	0.69	0.70	0.69	0.67	0.66
3	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.69	0.67	0.66	0.68	0.66	0.65	0.63
4	0.71	0.67	0.64	0.70	0.67	0.64	0.68	0.65	0.63	0.67	0.64	0.63	0.65	0.63	0.62	0.61
5	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.64	0.62	0.60	0.63	0.61	0.59	0.58
6	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.61	0.59	0.57	0.56
7	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.59	0.57	0.55	0.54
8	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.58	0.55	0.53	0.57	0.55	0.53	0.52
9	0.58	0.54	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.56	0.54	0.52	0.56	0.53	0.51	0.51
10	0.56	0.52	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.55	0.52	0.50	0.54	0.52	0.50	0.49



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	1495.13	1480.50	1382.06	1206.56	955.13	608.63	304.88	46.86	22.67
45.0	1503.56	1466.44	1361.25	1153.13	858.38	498.94	298.69	30.99	20.48
90.0	1496.81	1437.75	1294.31	1072.29	779.79	416.36	129.49	27.90	18.56
135.0	1496.81	1453.50	1325.81	1107.56	847.69	487.13	215.33	34.26	22.11
180.0	1495.13	1433.81	1294.31	1064.36	790.48	425.19	127.01	28.24	18.96
225.0	1503.56	1466.44	1360.69	1117.24	889.99	549.90	200.64	34.03	19.80
270.0	1496.81	1483.31	1387.13	1204.88	953.44	624.94	299.25	44.04	22.33
315.0	1496.81	1470.38	1356.19	1112.34	899.94	542.64	184.61	38.53	23.79
360.0	1495.13	1480.50	1382.06	1206.56	955.13	608.63	304.88	46.86	22.67
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	15.86	12.21	10.13	8.38	6.98	5.96	5.23	4.61	3.94
45.0	14.18	11.76	9.79	8.27	6.75	5.91	5.23	4.61	3.77
90.0	13.33	11.25	9.34	7.71	6.47	5.57	4.95	4.44	3.66
135.0	15.58	13.22	10.74	8.83	7.20	6.19	5.40	4.67	3.88
180.0	14.23	11.81	9.79	8.04	6.58	5.68	4.95	4.44	3.83
225.0	14.34	11.93	9.90	8.27	6.75	5.74	5.12	4.50	3.99
270.0	15.30	12.38	10.46	8.55	7.03	6.02	5.29	4.84	7.43
315.0	16.37	13.05	10.69	8.72	7.14	6.13	5.40	4.84	4.05
360.0	15.86	12.21	10.13	8.38	6.98	5.96	5.23	4.61	3.94
C/γ(°)	90.0								
0.0	3.54								
45.0	3.49								
90.0	3.54								
135.0	3.54								
180.0	3.54								
225.0	3.54								
270.0	3.49								
315.0	3.49								
360.0	3.54								