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Client:

LumCAT: 1366-M

Luminaire:

Report No: nata-0100

Test No:

LampCAT: XICATO XTM LES9

Lamp flux(lm): 1446.0

Number of Lamps: 1

Length(mm): 45

Phm Type: C

Voltage(V):

Current(A):

Power (W): 26.1900

PF:

Ballast type:

Width(mm): 45

Height(mm): 0

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Photometric Results

Lumens(lm): 1187.01, Efficiency(%): 82.09% , Luminous Efficacy(lm/W): 45.32

Central intensity(cd): 4863.628, Maximum intensity(cd): 4863.628

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.2

[C90/270]Total=24.2

Field angle(10%Imax): [C0/180]Total=52.8

[C90/270]Total=52.8

Maximum s/h(1/2): C0\_180=0.41 C90\_270=0.41

Maximum s/h(1/4): C0\_180=0.44 C90\_270=0.44

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.02%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 95.881%

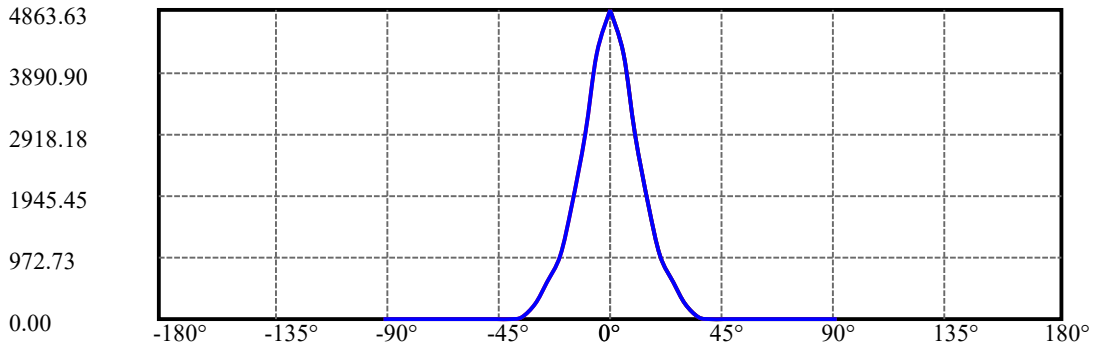
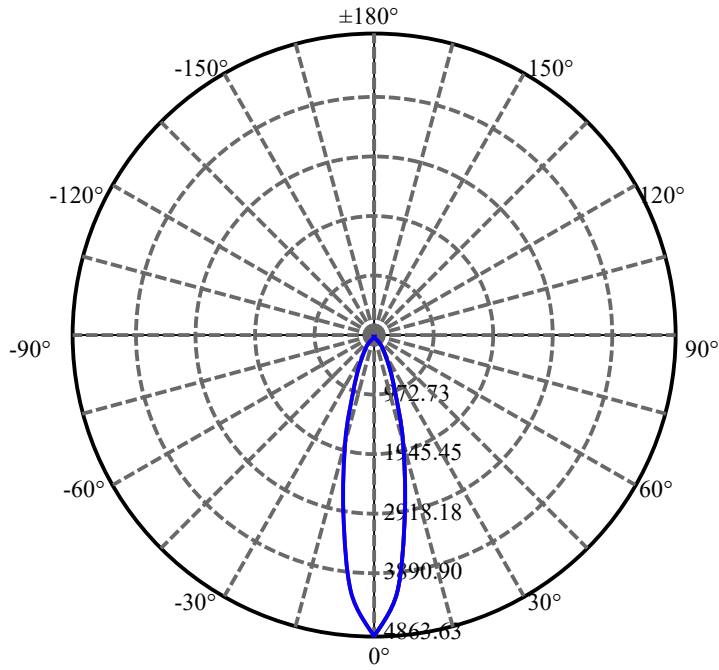
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4863.629	29.085	29.085	2.011%	2.450%
5.0	4161.521	198.810	227.895	13.749%	19.199%
10.0	2912.988	277.267	505.162	19.175%	42.558%
15.0	1773.208	251.562	756.724	17.397%	63.750%
20.0	983.147	184.314	941.039	12.747%	79.278%
25.0	584.325	135.361	1076.399	9.361%	90.682%
30.0	231.866	63.547	1139.947	4.395%	96.035%
35.0	22.604	7.107	1147.053	.491%	96.634%
40.0	10.106	3.561	1150.614	.246%	96.934%
45.0	8.903	3.451	1154.065	.239%	97.224%
50.0	8.365	3.512	1157.577	.243%	97.520%
55.0	8.050	3.615	1161.192	.250%	97.825%
60.0	7.861	3.732	1164.923	.258%	98.139%
65.0	7.735	3.843	1168.766	.266%	98.463%
70.0	7.644	3.937	1172.703	.272%	98.795%
75.0	7.609	4.029	1176.732	.279%	99.134%
80.0	7.567	4.085	1180.817	.282%	99.478%
85.0	7.560	4.128	1184.945	.285%	99.826%
90.0	7.539	2.066	1187.011	.143%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1139.95	78.83%	96.04%
0-40	1150.61	79.57%	96.93%
0-60	1164.92	80.56%	98.14%
0-90	1184.94	81.95%	99.83%
0-120	1184.94	81.95%	99.83%
0-180	1187.01	82.09%	100.00%
60-90	23.75	1.64%	2.00%
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%
0-20.32	949.61	65.67%	80.00%

## ZONAL LUMEN SUMMARY

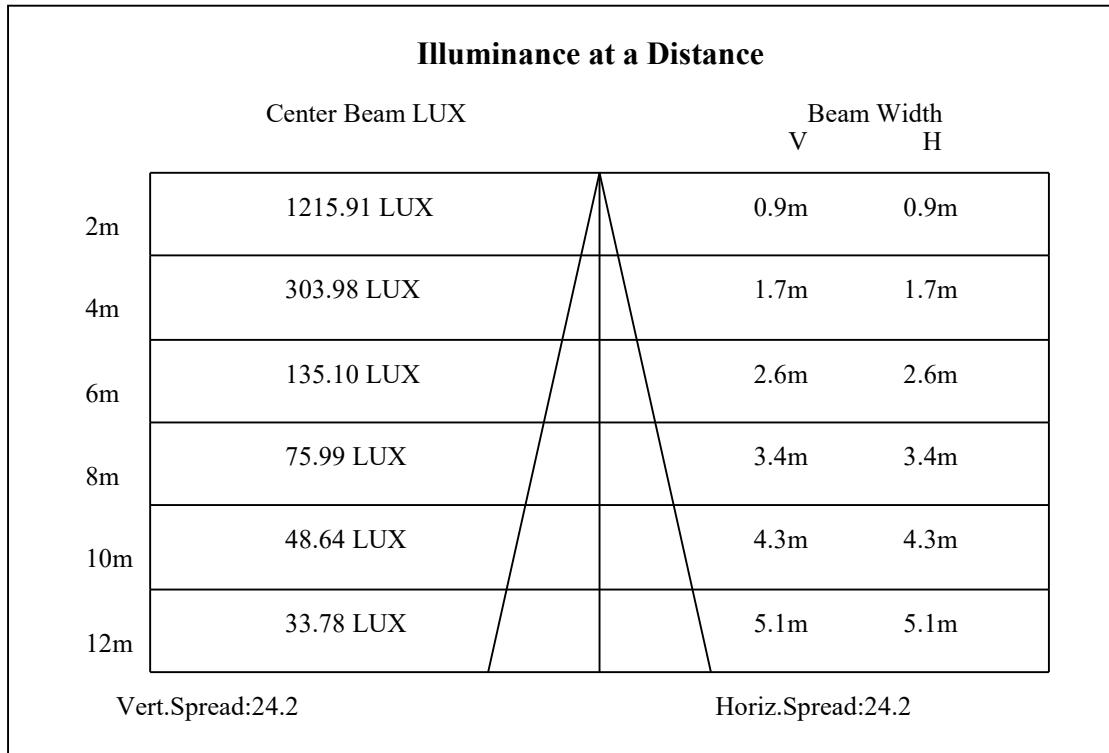
0-10	505.16
10-20	435.88
20-30	198.91
30-40	10.67
40-50	6.96
50-60	7.35
60-70	7.78
70-80	8.11
80-90	4.13
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

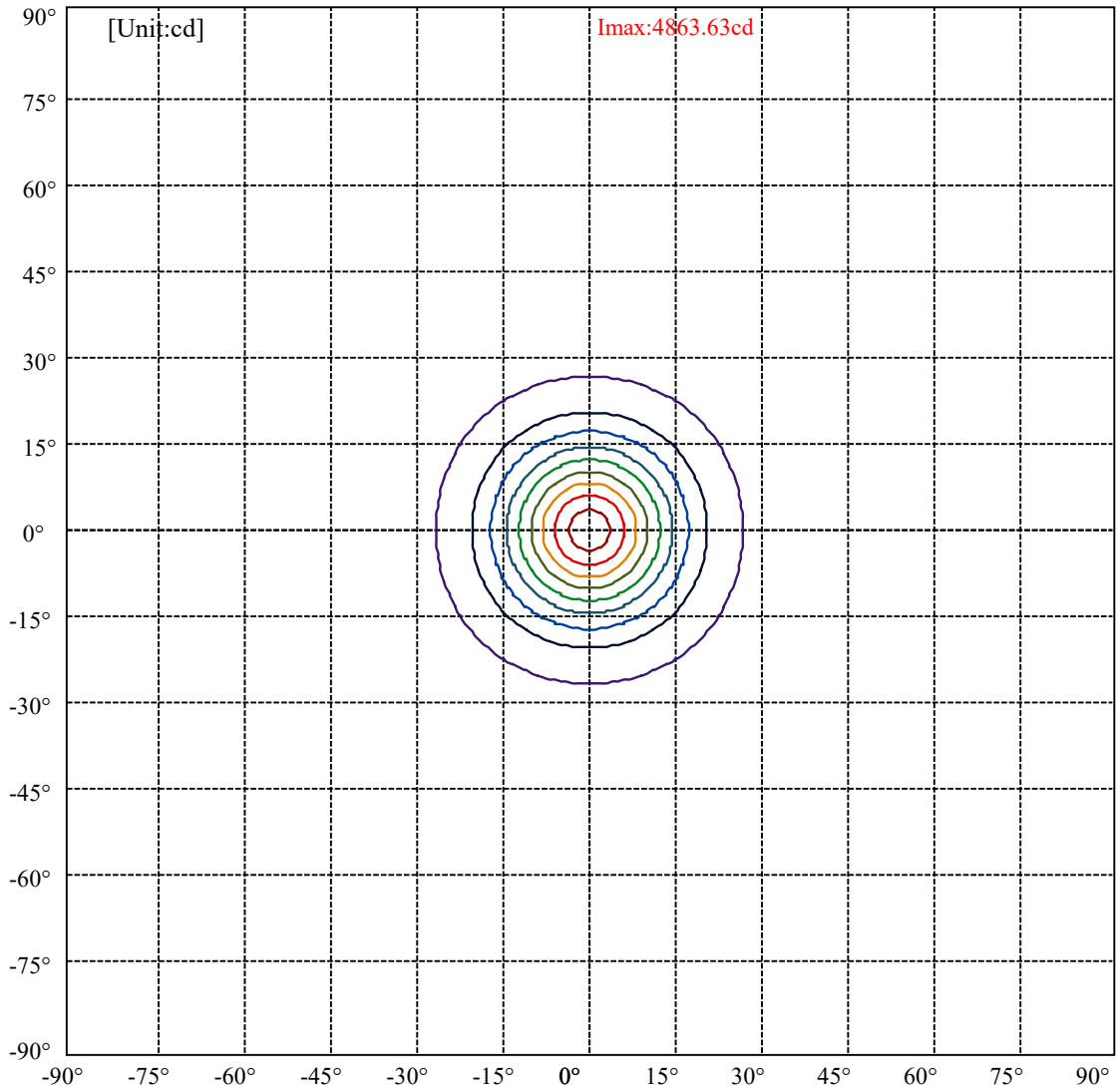


C0(Max): ———  
C0/C180: ———  
C90/C270: ———

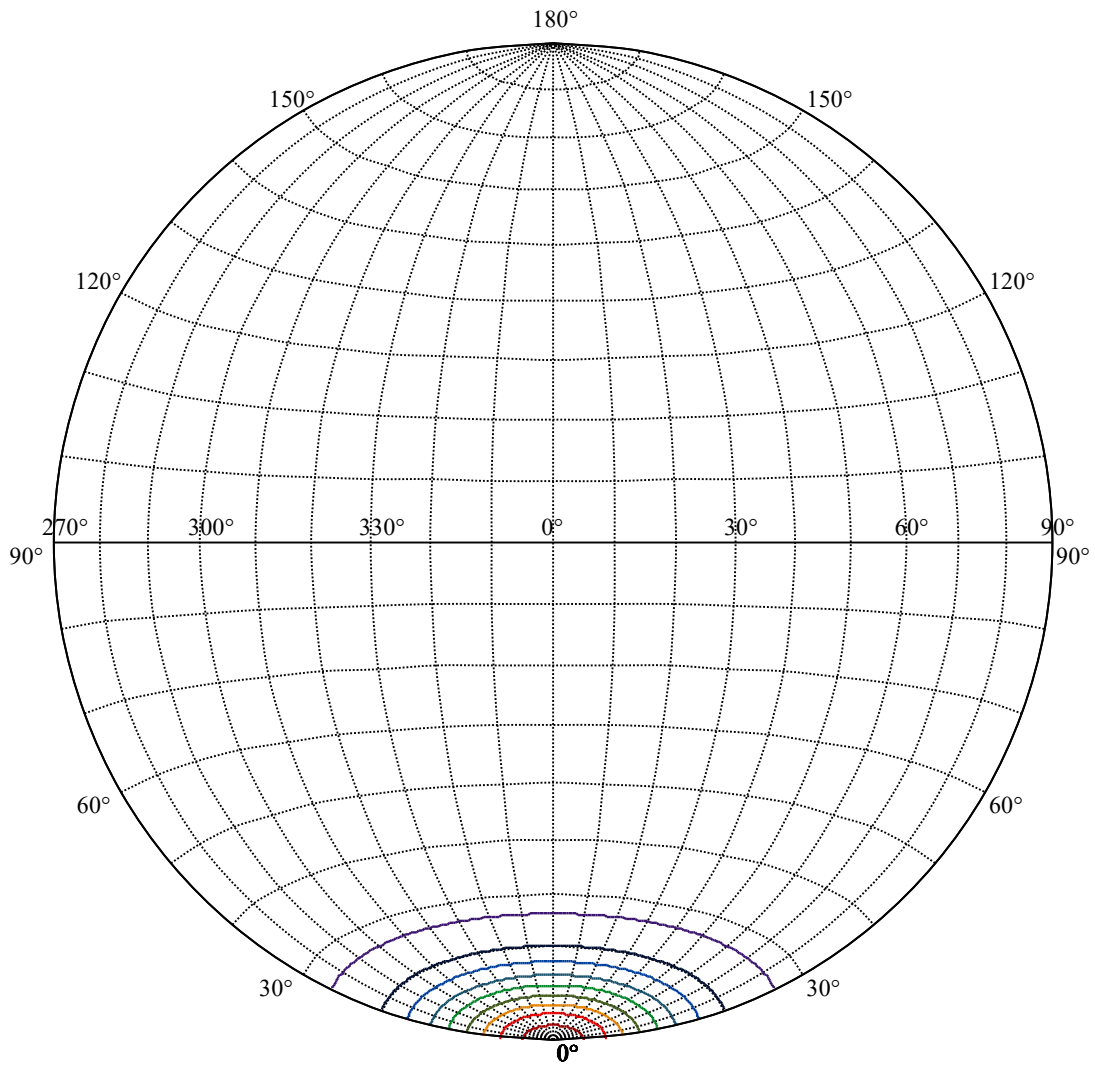
Field angle(10%Imax):C0/180Left:26.4 Right:26.4  
:C90/270Left:26.4 Right:26.4

Beam Angle(50%Imax):C0/180Left:12.1 Right:12.1  
:C90/270Left:12.1 Right:12.1





(10%Imax) 486.363	—
(20%Imax) 972.726	—
(30%Imax) 1459.09	—
(40%Imax) 1945.45	—
(50%Imax) 2431.81	—
(60%Imax) 2918.18	—
(70%Imax) 3404.54	—
(80%Imax) 3890.9	—
(90%Imax) 4377.27	—



House

[Unit:cd]

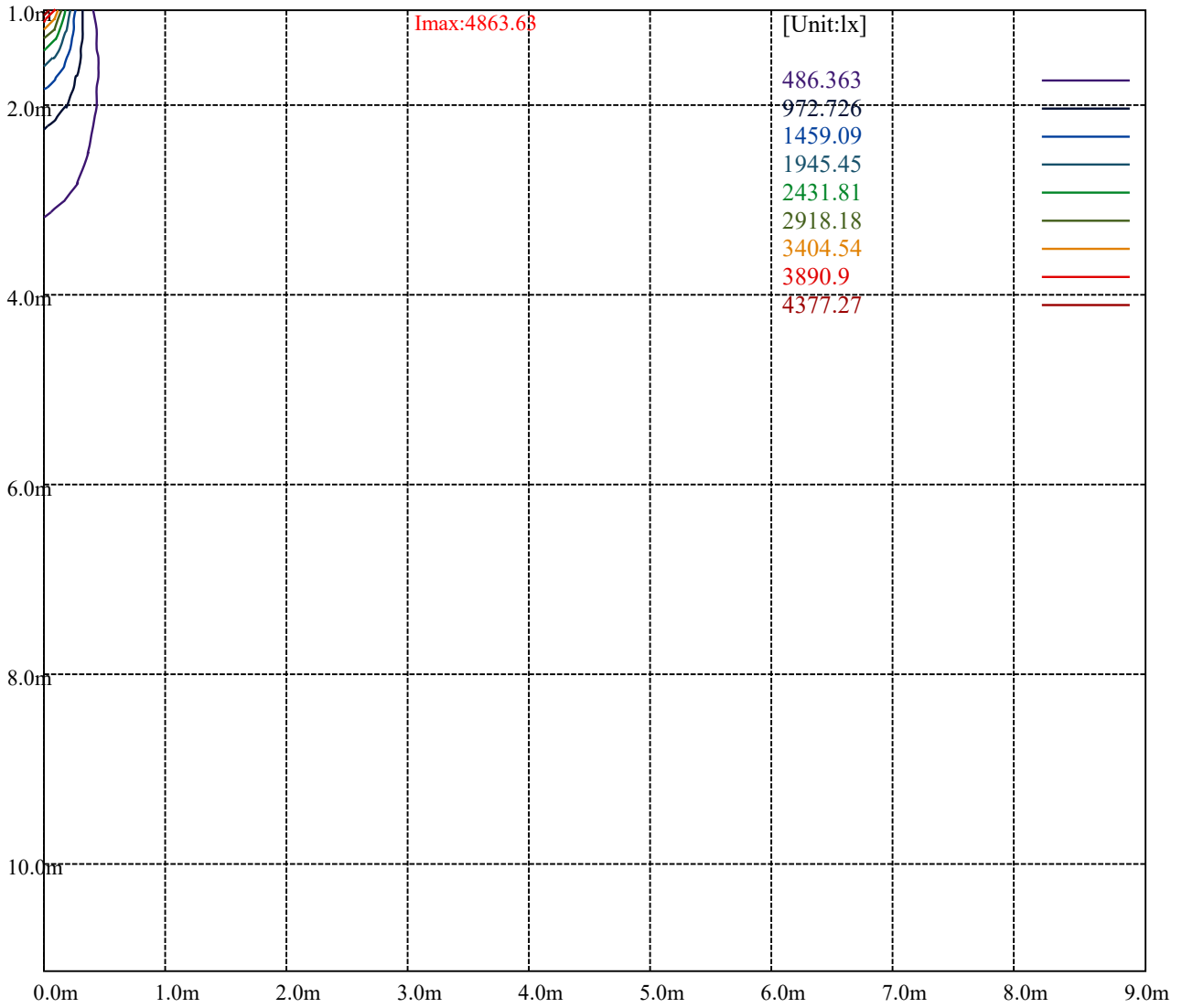
Road

**Imax:4863.63**

(10%Imax) 486.363	—
(20%Imax) 972.726	—
(30%Imax) 1459.09	—
(40%Imax) 1945.45	—
(50%Imax) 2431.81	—
(60%Imax) 2918.18	—
(70%Imax) 3404.54	—
(80%Imax) 3890.9	—
(90%Imax) 4377.27	—







Luminance Table

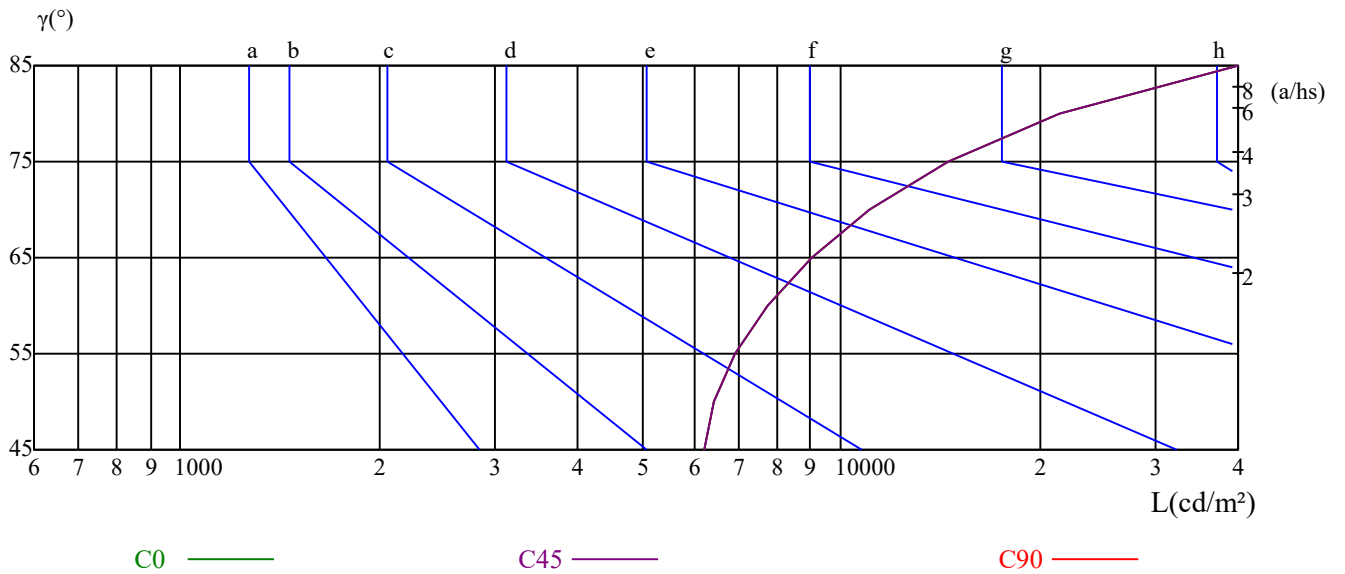
$\gamma$	45	50	55	60	65	70	75	80	85
C0	6218	6426	6931	7764	9038	11037	14518	21519	42835
C45	6218	6426	6931	7764	9038	11037	14518	21519	42835
C90	6218	6426	6931	7764	9038	11037	14518	21519	42835

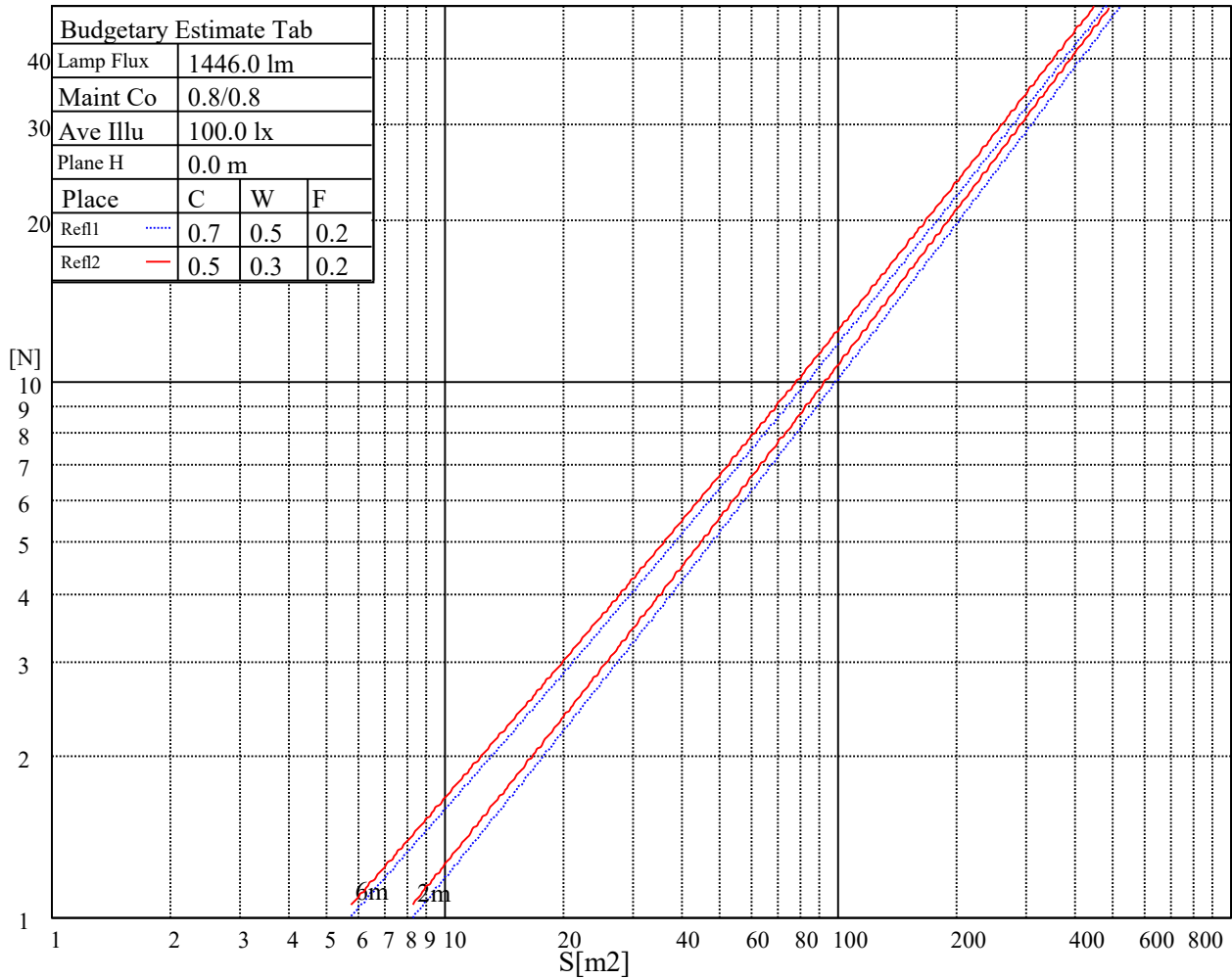
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9038	9038	9038	14518	14518	14518	42835	42835	42835

Glare Table

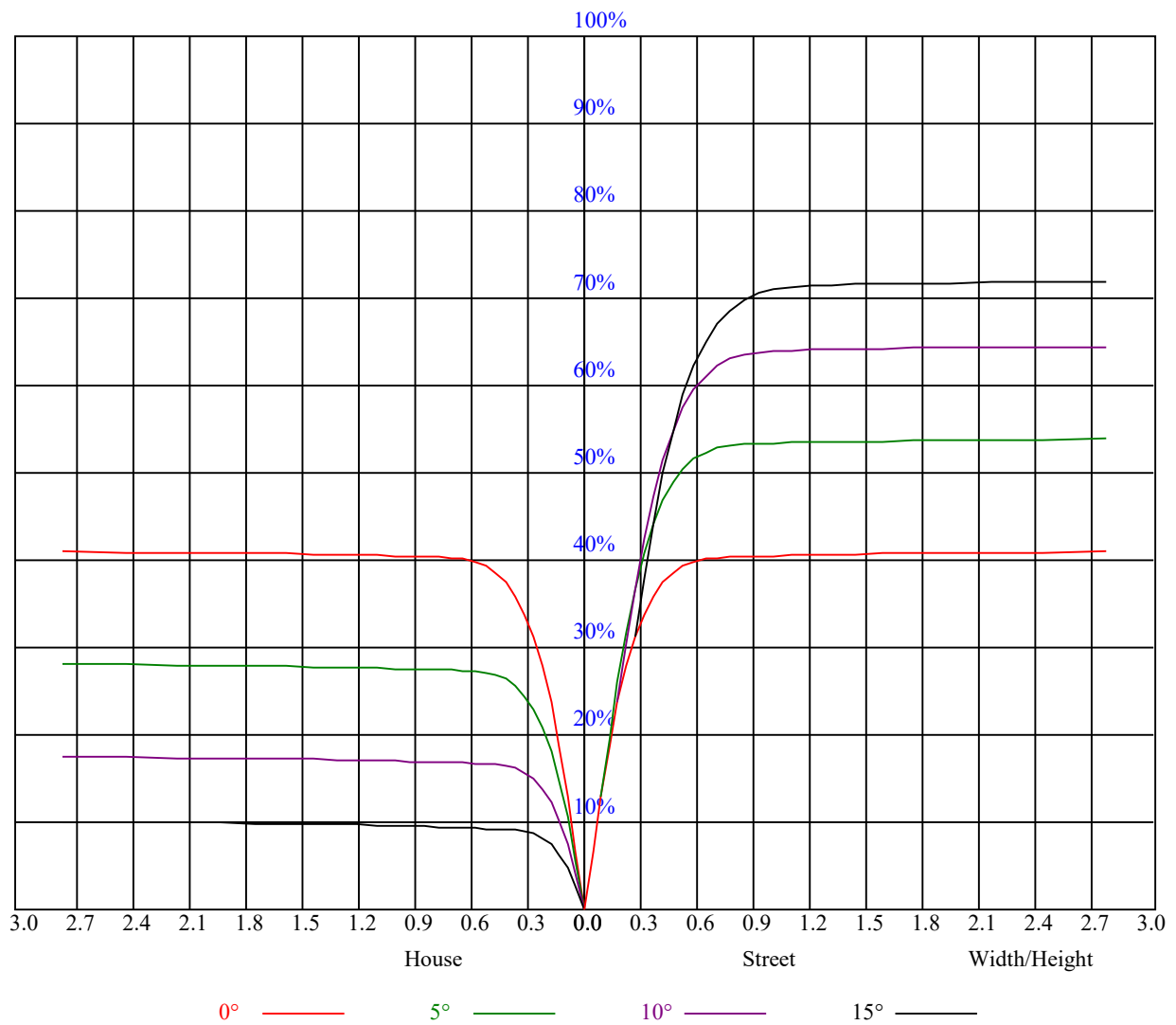
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

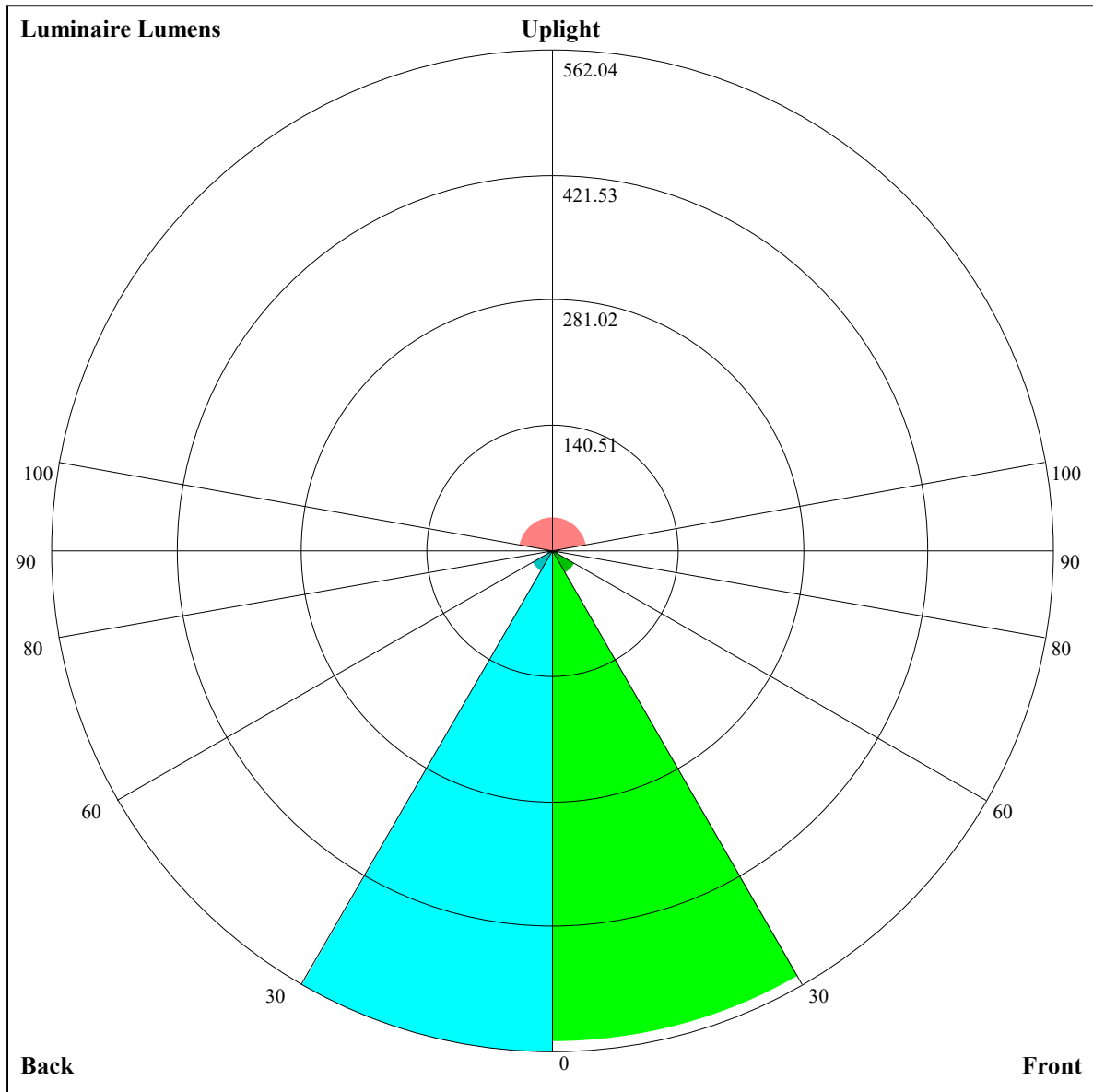
Luminance Limiting Curve





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	1.00	1.00	1.00	0.98	0.98	0.98	0.93	0.93	0.93	0.89	0.89	0.89	0.86	0.86	0.86	0.84
1	0.92	0.90	0.87	0.90	0.88	0.86	0.87	0.85	0.83	0.83	0.82	0.81	0.81	0.79	0.78	0.77
2	0.87	0.84	0.82	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.77	0.79	0.77	0.76	0.74
3	0.84	0.80	0.77	0.83	0.79	0.77	0.80	0.78	0.75	0.78	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
5	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.69	0.73	0.71	0.69	0.68
6	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
7	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.70	0.67	0.65	0.64
8	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.64	0.63
9	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
10	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.61	0.60





Luminaire Lumens:

FL=550.67,FM=28.25,FH=7.87,FVH=4.12

BL=562.04,BM=27.54,BH=7.87,BVH=4.12

UL=8.23,UH=39.14

BUG Rating:B2-U2-G0

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	4872.72	4112.35	2965.93	1773.63	995.92	574.61	283.11	24.00	10.35
45.0	4882.79	4124.66	2890.40	1708.73	961.23	592.52	284.23	21.15	10.30
90.0	4840.83	3962.97	2608.41	1618.65	884.58	515.02	135.96	19.30	9.85
135.0	4858.17	4233.21	3056.01	1821.19	1026.69	603.15	292.62	23.33	10.24
180.0	4872.72	4191.25	2912.22	1776.99	965.26	585.80	196.27	21.82	9.90
225.0	4882.79	4266.78	2935.72	1844.13	1008.95	605.55	201.70	23.00	10.02
270.0	4840.83	4336.16	3179.66	1926.93	1088.80	650.70	288.15	26.30	10.30
315.0	4858.17	4064.80	2755.56	1715.44	933.76	547.25	172.89	21.93	9.90
360.0	4872.72	4112.35	2965.93	1773.63	995.92	574.61	283.11	24.00	10.35
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	8.95	8.39	8.06	7.83	7.72	7.61	7.61	7.55	7.55
45.0	9.01	8.45	8.11	7.95	7.78	7.67	7.61	7.55	7.55
90.0	8.90	8.39	8.06	7.89	7.72	7.67	7.61	7.55	7.55
135.0	9.01	8.45	8.11	7.95	7.78	7.67	7.67	7.61	7.61
180.0	8.78	8.28	8.00	7.78	7.72	7.61	7.61	7.55	7.55
225.0	8.84	8.28	8.00	7.78	7.67	7.61	7.55	7.55	7.55
270.0	8.95	8.39	8.06	7.89	7.78	7.67	7.61	7.61	7.55
315.0	8.78	8.28	8.00	7.83	7.72	7.67	7.61	7.55	7.55
360.0	8.95	8.39	8.06	7.83	7.72	7.61	7.61	7.55	7.55
C/ $\gamma$ (°)	90.0								
0.0	7.55								
45.0	7.55								
90.0	7.55								
135.0	7.55								
180.0	7.50								
225.0	7.50								
270.0	7.55								
315.0	7.55								
360.0	7.55								