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Nata

Client:

LumCAT: 2-1794-N

Luminaire: 92.70.131.00

Report No:

Voltage(V): 34.9800

Test No: GC2019082206

Current(A): 0.3980

LampCAT: TRIDONIC SLE 15MM G7

Power (W): 13.9200

Lamp flux(lm): 1700.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 69

Width(mm): 69

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1534.61, Efficiency(%): 90.27% , Luminous Efficacy(lm/W): 110.24

Central intensity(cd): 4633.383, Maximum intensity(cd): 4633.383

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=28.4

[C90/270]Total=28.4

Field angle(10%Imax): [C0/180]Total=59.2

[C90/270]Total=59.2

Maximum s/h(1/2): C0_180=0.48 C90_270=0.48

Maximum s/h(1/4): C0_180=0.49 C90_270=0.49

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.27%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.614%

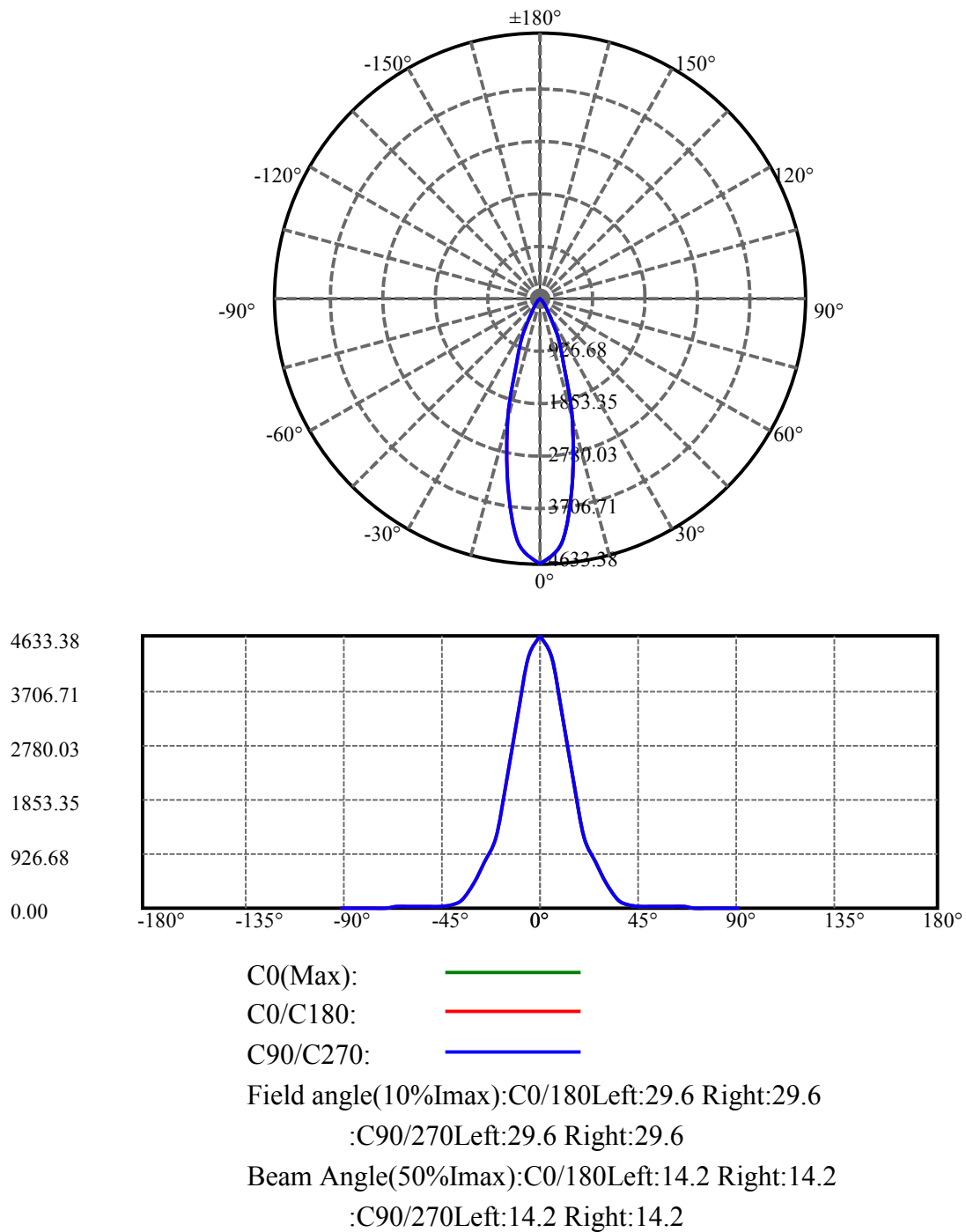
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4633.383	0.000	0	.000%	.000%
5.0	4251.516	106.216	106.216	6.248%	6.921%
10.0	3300.469	270.158	376.375	15.892%	24.526%
15.0	2127.797	322.001	698.376	18.941%	45.508%
20.0	1217.658	275.712	974.088	16.218%	63.475%
25.0	770.034	208.472	1182.56	12.263%	77.060%
30.0	439.158	153.024	1335.585	9.001%	87.031%
35.0	144.232	85.908	1421.493	5.053%	92.629%
40.0	46.259	31.782	1453.275	1.870%	94.700%
45.0	32.140	14.516	1467.791	.854%	95.646%
50.0	24.996	11.545	1479.336	.679%	96.398%
55.0	20.496	9.892	1489.228	.582%	97.043%
60.0	17.445	8.770	1497.997	.516%	97.614%
65.0	14.878	7.858	1505.855	.462%	98.126%
70.0	13.113	7.088	1512.943	.417%	98.588%
75.0	11.454	6.421	1519.364	.378%	99.007%
80.0	10.027	5.748	1525.112	.338%	99.381%
85.0	8.627	5.069	1530.18	.298%	99.712%
90.0	7.538	4.426	1534.607	.260%	100.000%

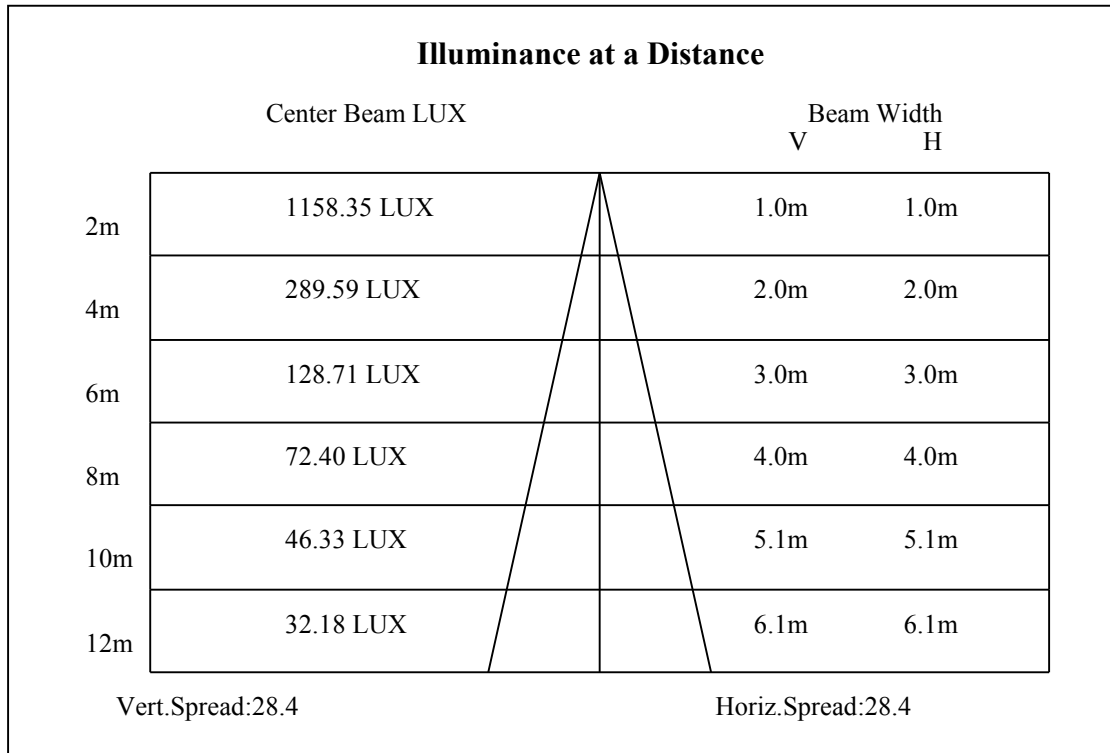
ZONAL LUMEN SUMMARY

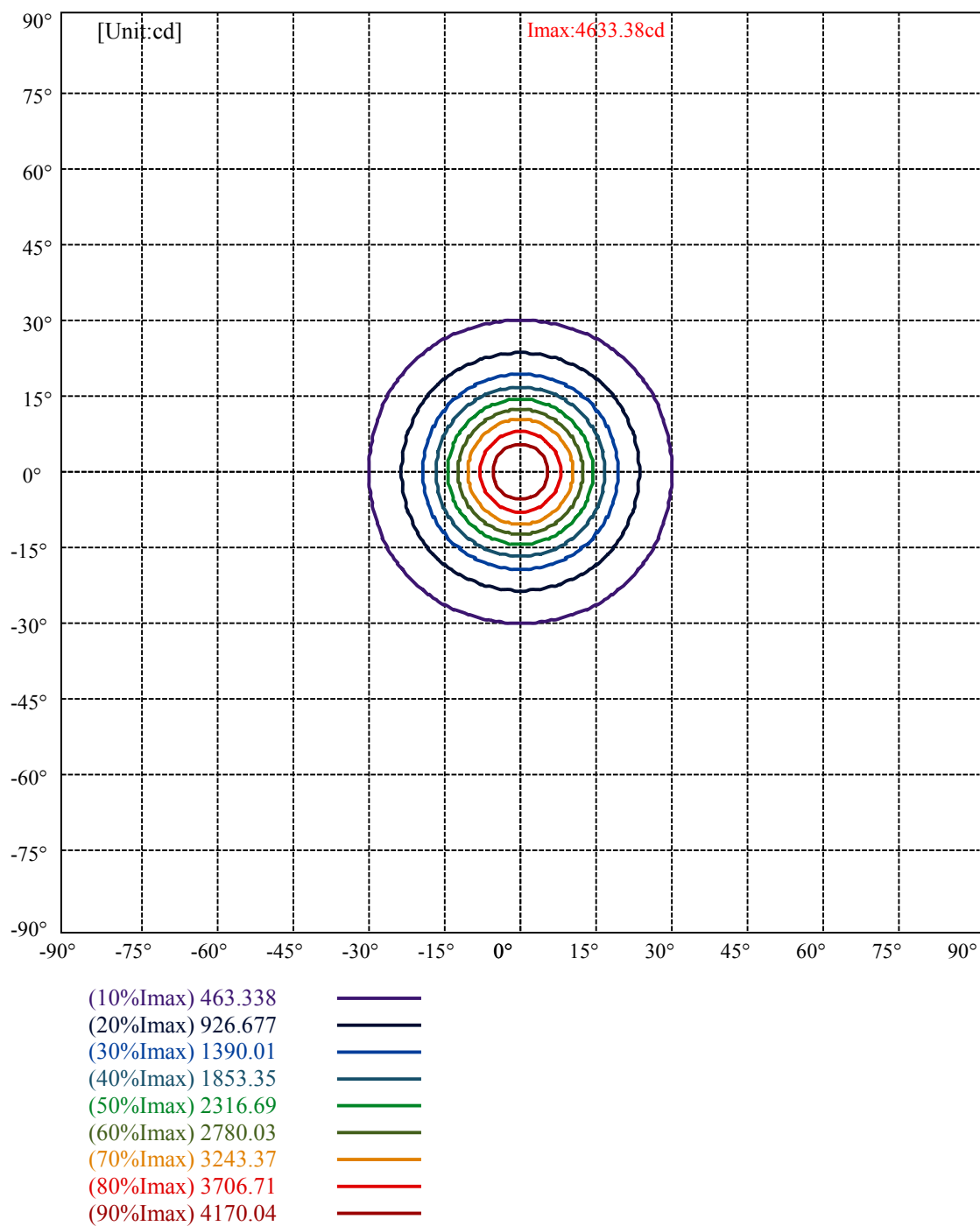
Zone	Lumens	%Lamp	%Fixt
0-30	1335.58	78.56%	87.03%
0-40	1453.27	85.49%	94.70%
0-60	1498.00	88.12%	97.61%
0-90	1530.18	90.01%	99.71%
0-120	1530.18	90.01%	99.71%
0-180	1534.61	90.27%	100.00%
60-90	40.95	2.41%	2.67%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.47	1227.69	72.22%	80.00%

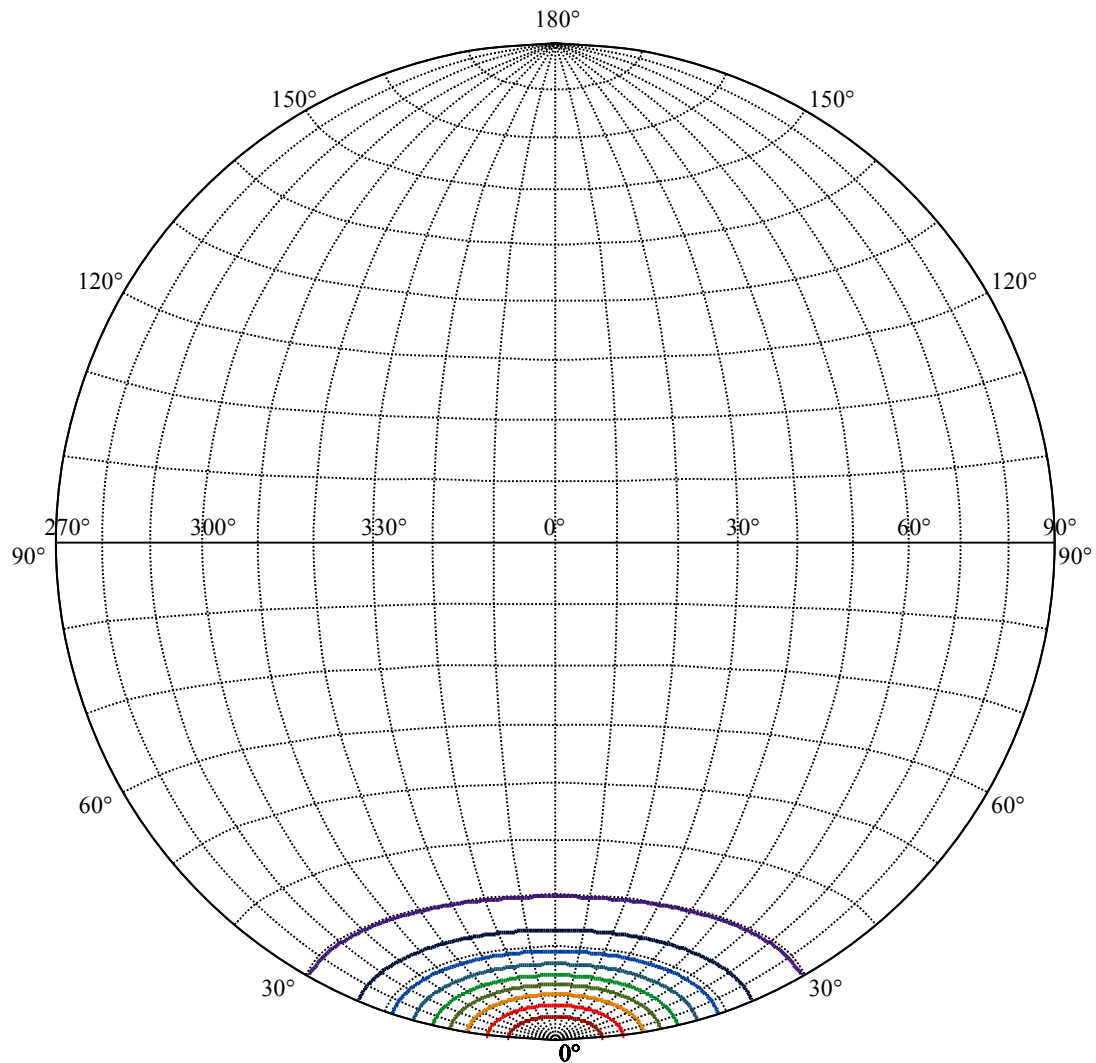
ZONAL LUMEN SUMMARY

0-10	376.37
10-20	597.71
20-30	361.50
30-40	117.69
40-50	26.06
50-60	18.66
60-70	14.95
70-80	12.17
80-90	5.07
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









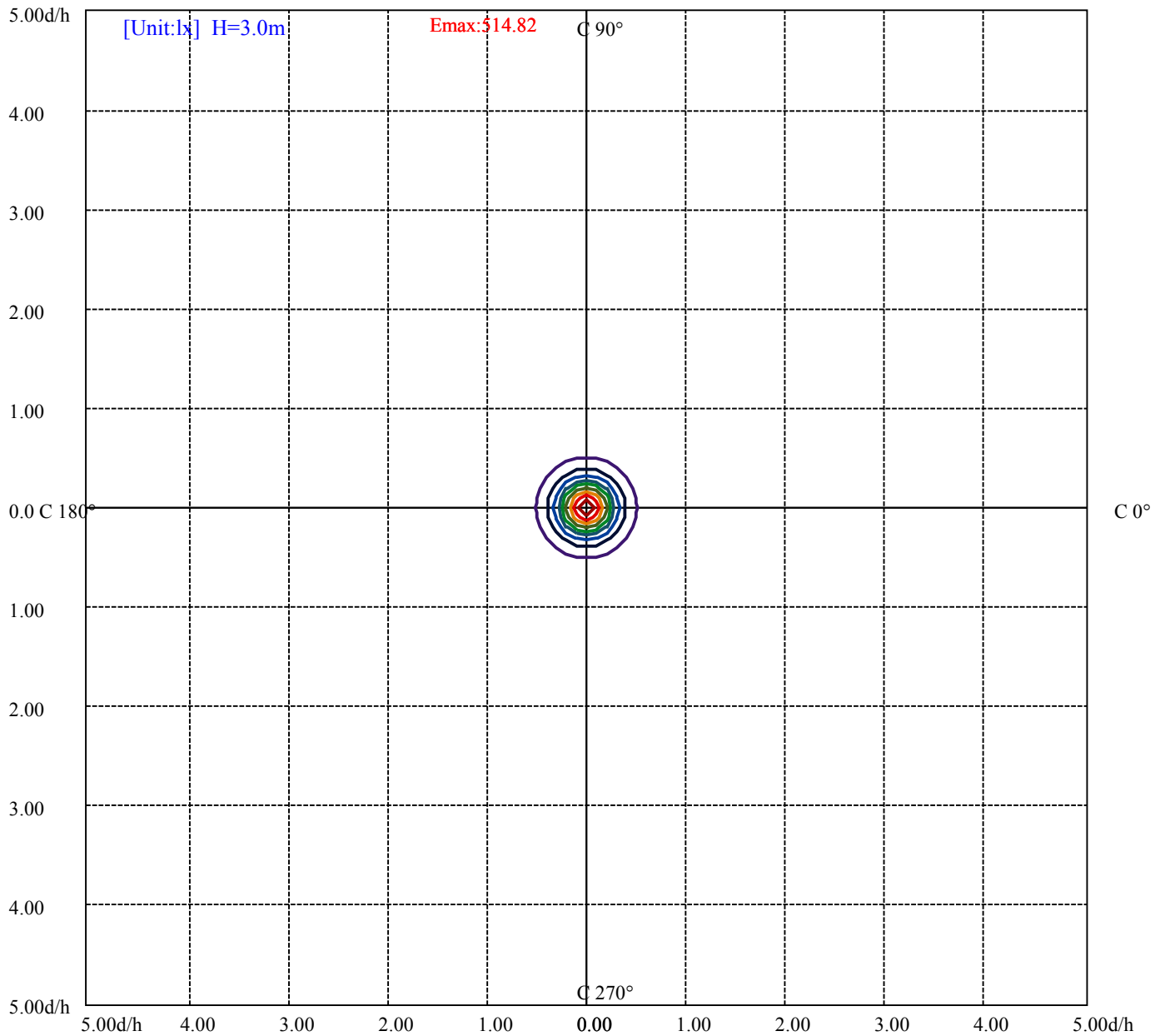
House

[Unit:cd]

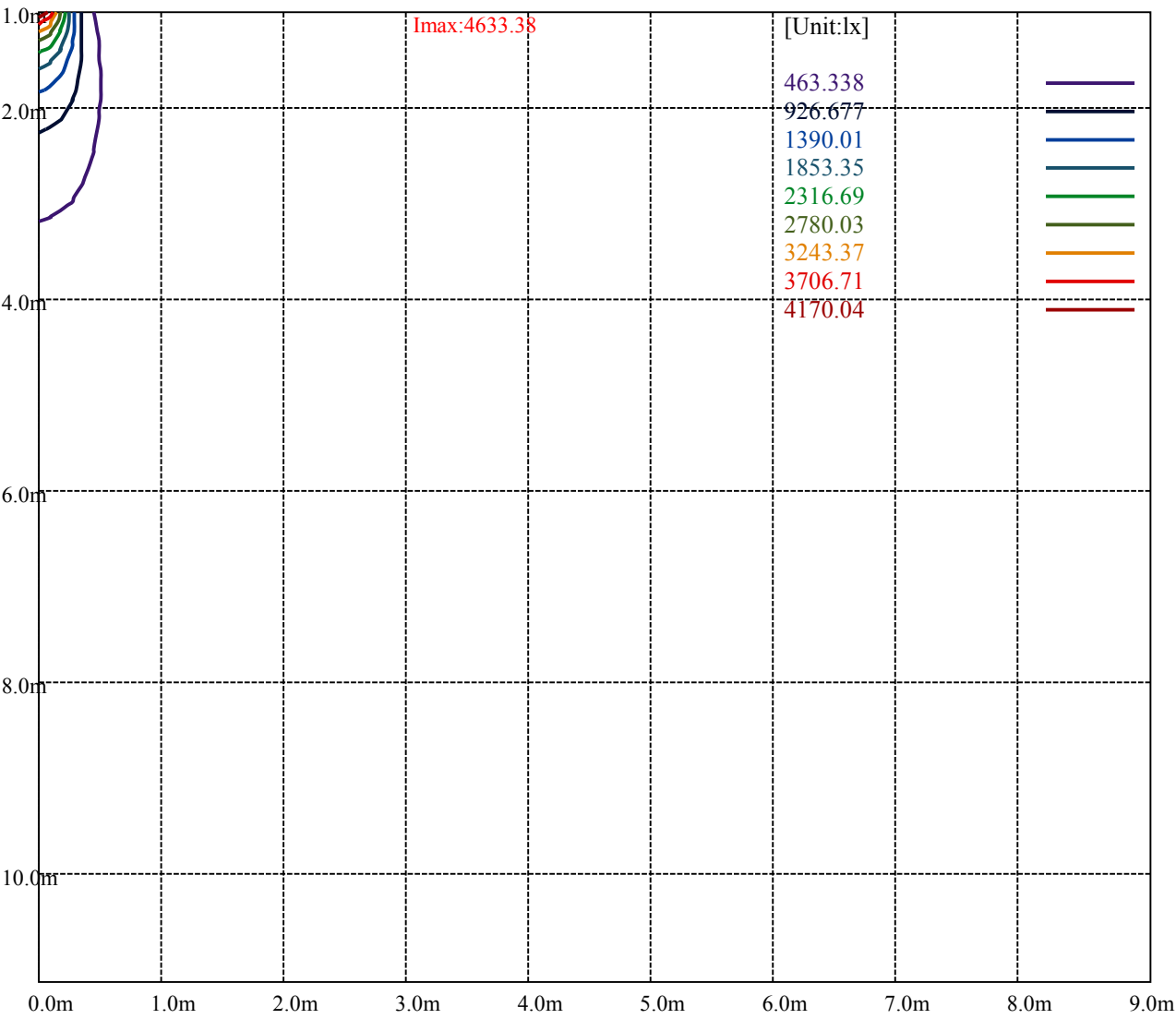
Road

Imax:4633.38

(10%Imax)	463.338	—
(20%Imax)	926.677	—
(30%Imax)	1390.01	—
(40%Imax)	1853.35	—
(50%Imax)	2316.69	—
(60%Imax)	2780.03	—
(70%Imax)	3243.37	—
(80%Imax)	3706.71	—
(90%Imax)	4170.04	—



(10%Emax)	51.48189	
(20%Emax)	102.9638	
(30%Emax)	154.4456	
(40%Emax)	205.9278	
(50%Emax)	257.41	
(60%Emax)	308.8911	
(70%Emax)	360.3734	
(80%Emax)	411.8556	
(90%Emax)	463.3366	



Luminance Table

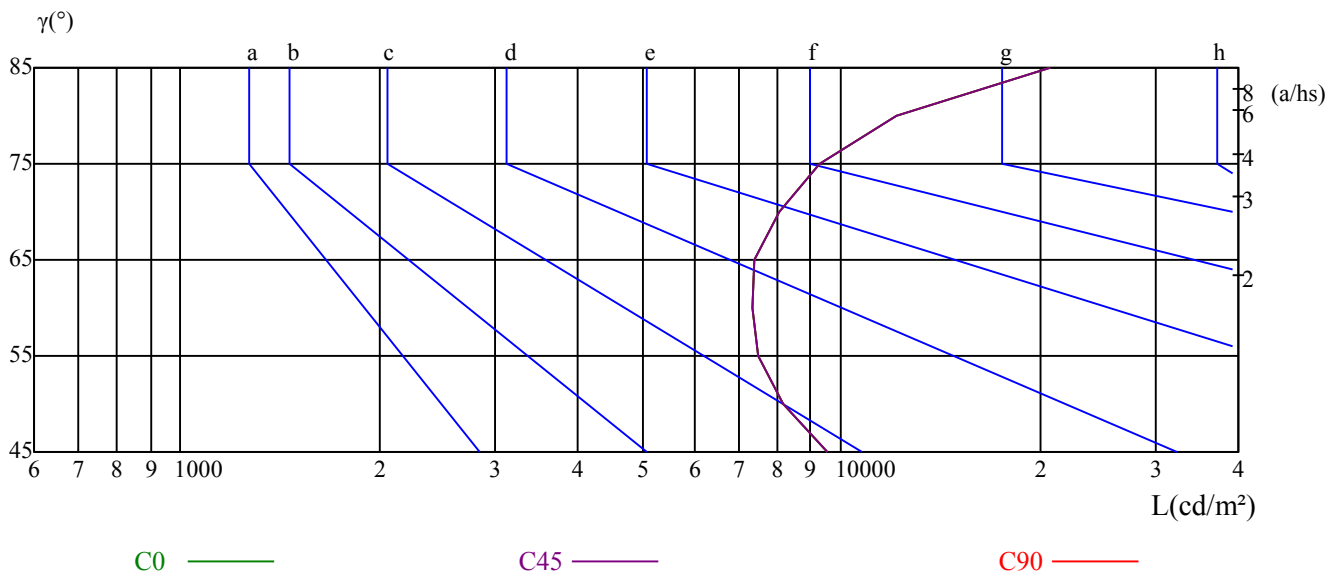
γ	45	50	55	60	65	70	75	80	85
C0	9547	8168	7506	7328	7394	8053	9295	12128	20791
C45	9547	8168	7506	7328	7394	8053	9295	12128	20791
C90	9547	8168	7506	7328	7394	8053	9295	12128	20791

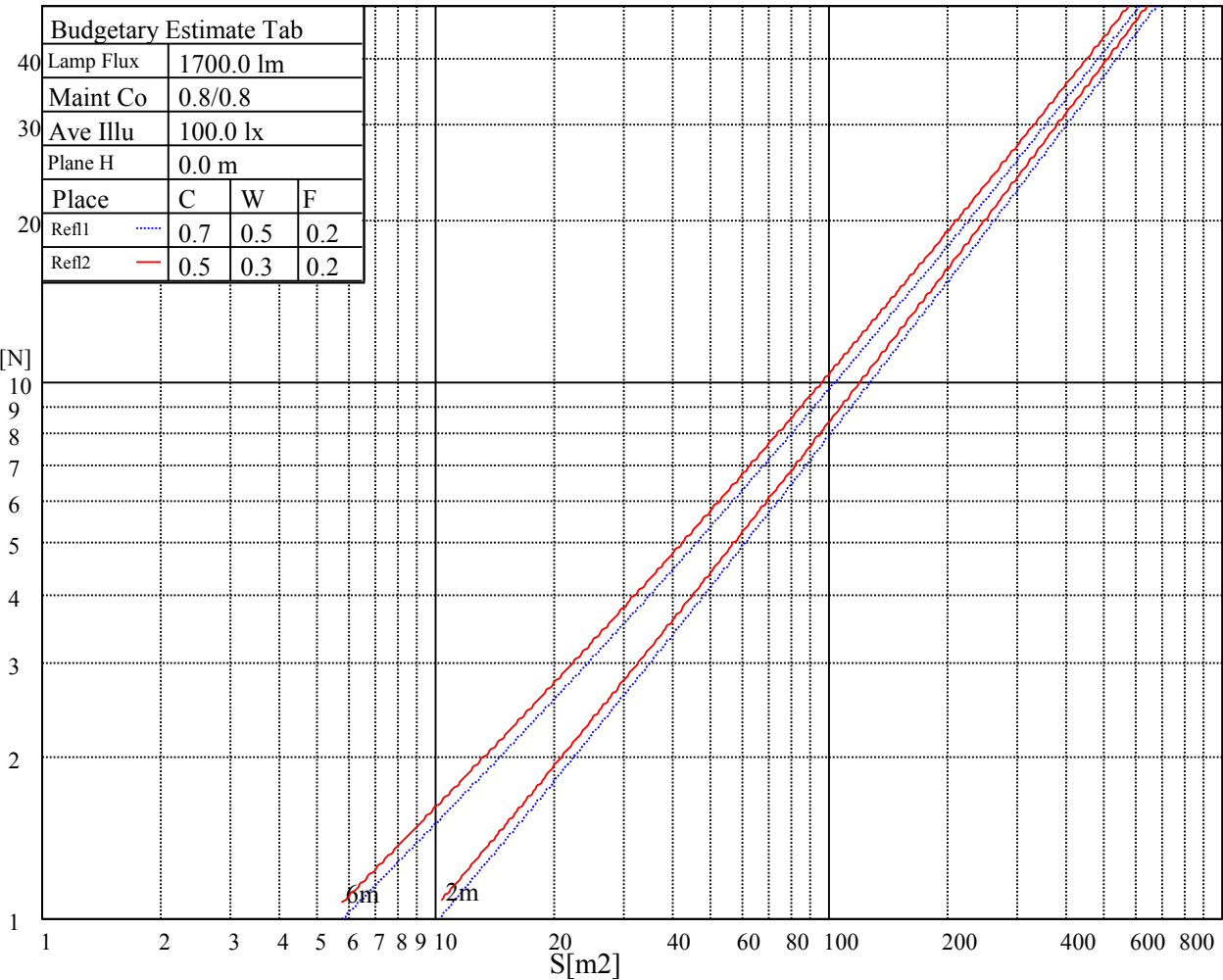
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7394	7394	7394	9295	9295	9295	20791	20791	20791

Glare Table

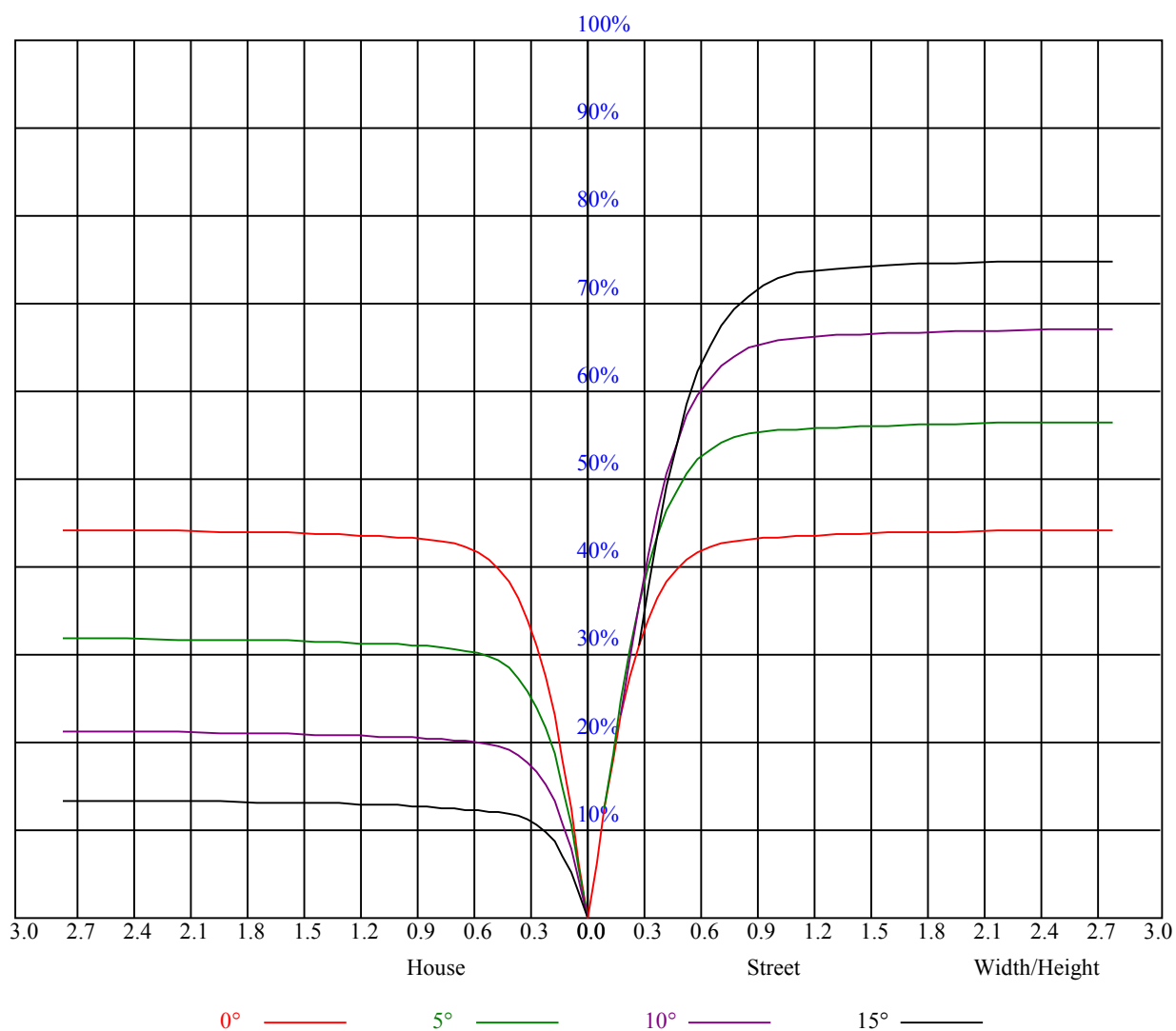
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

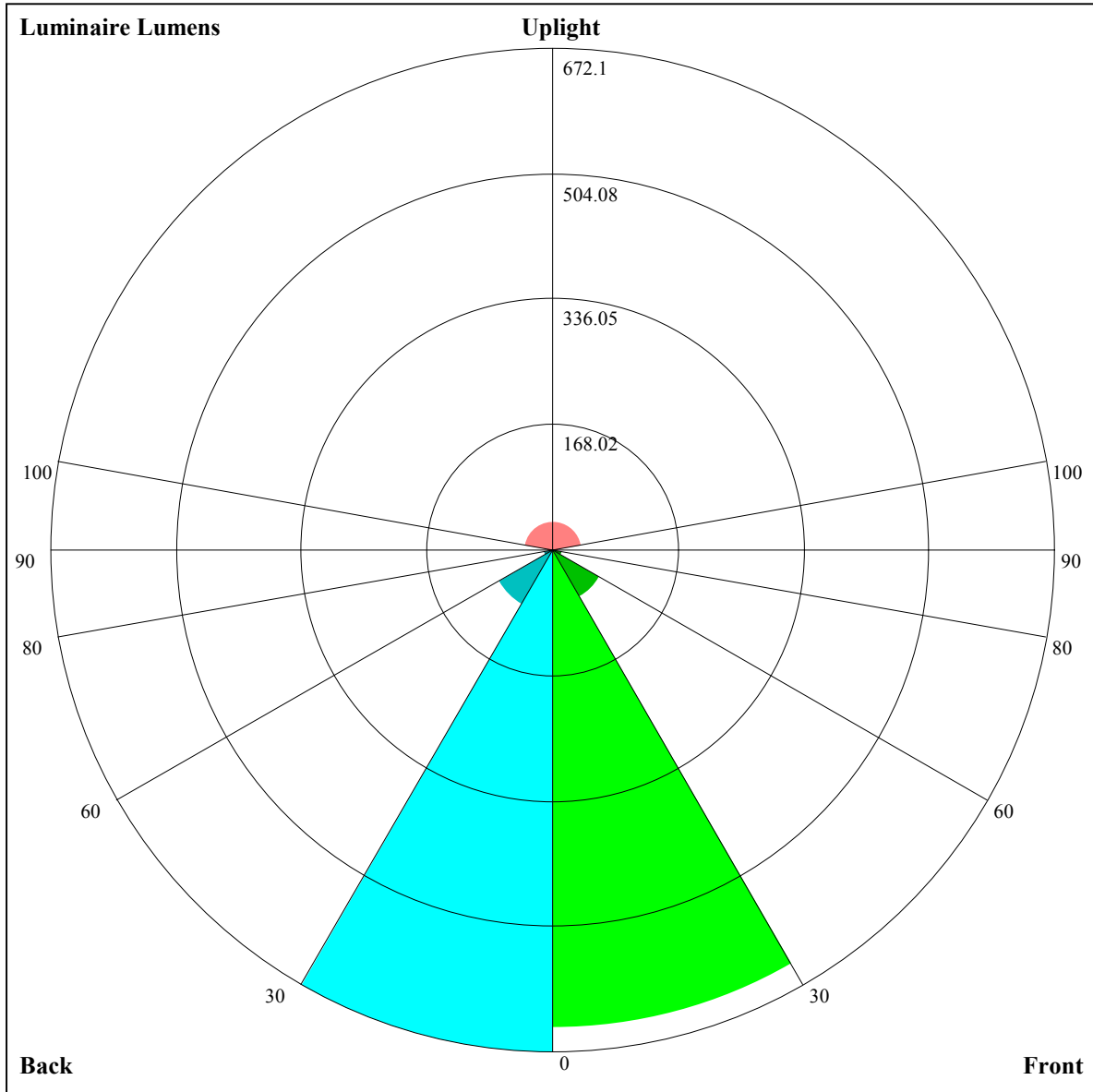
Luminance Limiting Curve





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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.85
2	0.95	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.86	0.83	0.89	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.82	0.80	0.78	0.77
4	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.79	0.77	0.75	0.74
5	0.81	0.77	0.74	0.81	0.76	0.73	0.79	0.75	0.73	0.78	0.74	0.72	0.76	0.74	0.71	0.70
6	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
7	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65
8	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.69	0.65	0.63	0.62
9	0.69	0.64	0.62	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
10	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58





Luminaire Lumens:

FL=640.88,FM=73.49,FH=13.31,FVH=4.63

BL=672.1,BM=85.27,BH=13.69,BVH=4.82

UL=8.22,UH=39.14

BUG Rating:B2-U2-G0

Intensity data(cd)										Appendix Page: 15 Total:15	
C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	4637.25	4222.13	3193.88	2015.44	1227.94	744.75	392.63	97.59	41.91		
45.0	4640.63	4294.13	3412.69	2199.94	1348.31	783.00	475.88	202.50	49.56		
90.0	4647.94	4290.19	3317.63	2113.31	1117.41	772.82	458.61	131.63	49.22		
135.0	4610.81	4433.06	3706.31	2531.25	1539.56	924.19	555.19	293.63	56.36		
180.0	4637.25	4330.69	3454.31	2320.88	1118.03	802.41	501.69	161.61	48.49		
225.0	4634.44	4199.63	3170.25	1964.25	1105.31	701.89	400.33	110.59	44.32		
270.0	4647.94	4214.81	3197.81	2063.81	1216.69	742.50	412.31	95.46	42.75		
315.0	4610.81	4027.50	2950.88	1813.50	1068.02	688.73	316.63	60.86	37.46		
360.0	4637.25	4222.13	3193.88	2015.44	1227.94	744.75	392.63	97.59	41.91		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	29.98	23.46	19.74	16.88	14.40	12.77	11.19	9.73	8.33		
45.0	34.26	26.61	21.49	18.00	15.13	13.33	11.53	10.01	8.44		
90.0	33.58	25.65	20.76	17.55	14.79	13.05	11.36	9.90	8.55		
135.0	35.72	27.11	21.66	18.73	15.98	14.01	12.38	10.91	9.62		
180.0	32.85	26.27	21.43	18.11	15.47	13.61	11.87	10.52	9.17		
225.0	31.33	24.64	20.25	17.04	14.51	12.77	11.14	9.62	8.27		
270.0	31.16	23.79	19.69	16.76	14.40	12.66	11.08	9.79	8.27		
315.0	28.24	22.44	18.96	16.48	14.34	12.71	11.08	9.73	8.38		
360.0	29.98	23.46	19.74	16.88	14.40	12.77	11.19	9.73	8.33		
C/ γ (°)	90.0										
0.0	7.31										
45.0	7.31										
90.0	7.43										
135.0	8.10										
180.0	8.21										
225.0	7.37										
270.0	7.31										
315.0	7.26										
360.0	7.31										