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Nata

Client:

LumCAT: 3-2117-N

Luminaire: 92.70.131.00

Report No:

Voltage(V): 34.9800

Test No: GC2019082206

Current(A): 0.3980

LampCAT: TRIDONIC SLE 13MM G7

Power (W): 13.9200

Lamp flux(lm): 1702.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 74

Width(mm): 74

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1406.48, Efficiency(%): 82.64% , Luminous Efficacy(lm/W): 101.04

Central intensity(cd): 3446.297, Maximum intensity(cd): 3446.297

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.8

[C90/270]Total=35.8

Field angle(10%Imax): [C0/180]Total=60.2

[C90/270]Total=60.2

Maximum s/h(1/2): C0_180=0.61 C90_270=0.61

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(%): 82.64%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.740%

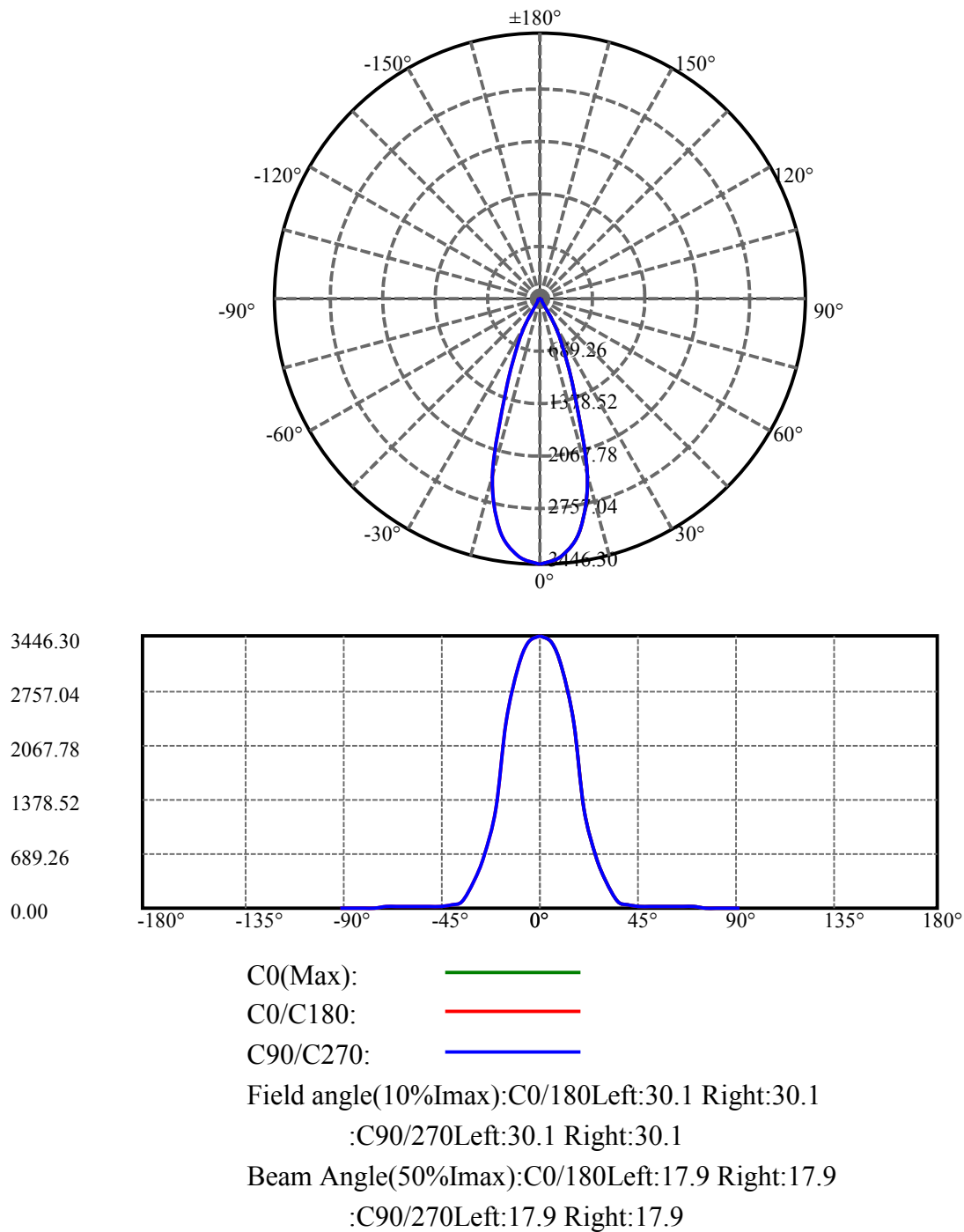
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3446.297	0.000	0	.000%	.000%
5.0	3352.219	81.274	81.274	4.775%	5.779%
10.0	3038.625	228.621	309.895	13.432%	22.033%
15.0	2349.563	319.624	629.519	18.779%	44.758%
20.0	1265.941	297.968	927.487	17.507%	65.944%
25.0	658.378	201.826	1129.312	11.858%	80.294%
30.0	348.912	127.473	1256.786	7.490%	89.357%
35.0	79.622	63.105	1319.89	3.708%	93.844%
40.0	37.104	19.475	1339.365	1.144%	95.228%
45.0	25.348	11.563	1350.929	.679%	96.050%
50.0	19.547	9.072	1360	.533%	96.695%
55.0	16.073	7.745	1367.745	.455%	97.246%
60.0	14.006	6.953	1374.698	.409%	97.740%
65.0	12.396	6.418	1381.117	.377%	98.197%
70.0	11.194	5.973	1387.09	.351%	98.621%
75.0	10.034	5.548	1392.638	.326%	99.016%
80.0	8.993	5.091	1397.729	.299%	99.378%
85.0	7.995	4.616	1402.345	.271%	99.706%
90.0	7.102	4.133	1406.478	.243%	100.000%

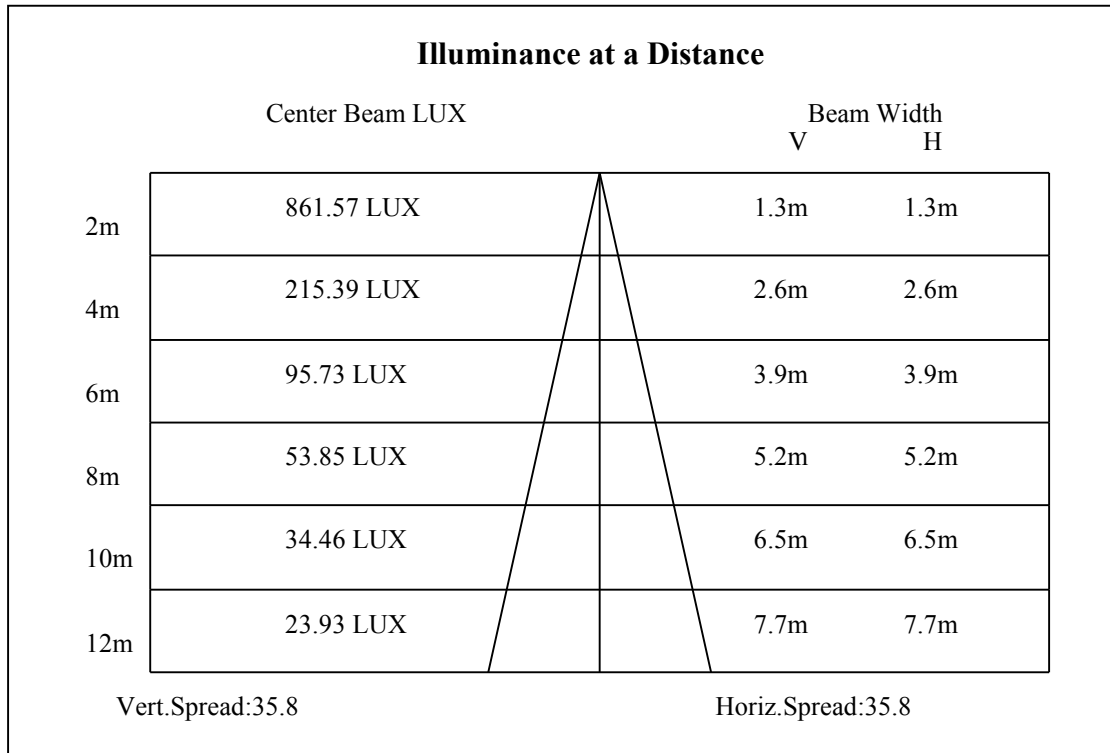
ZONAL LUMEN SUMMARY

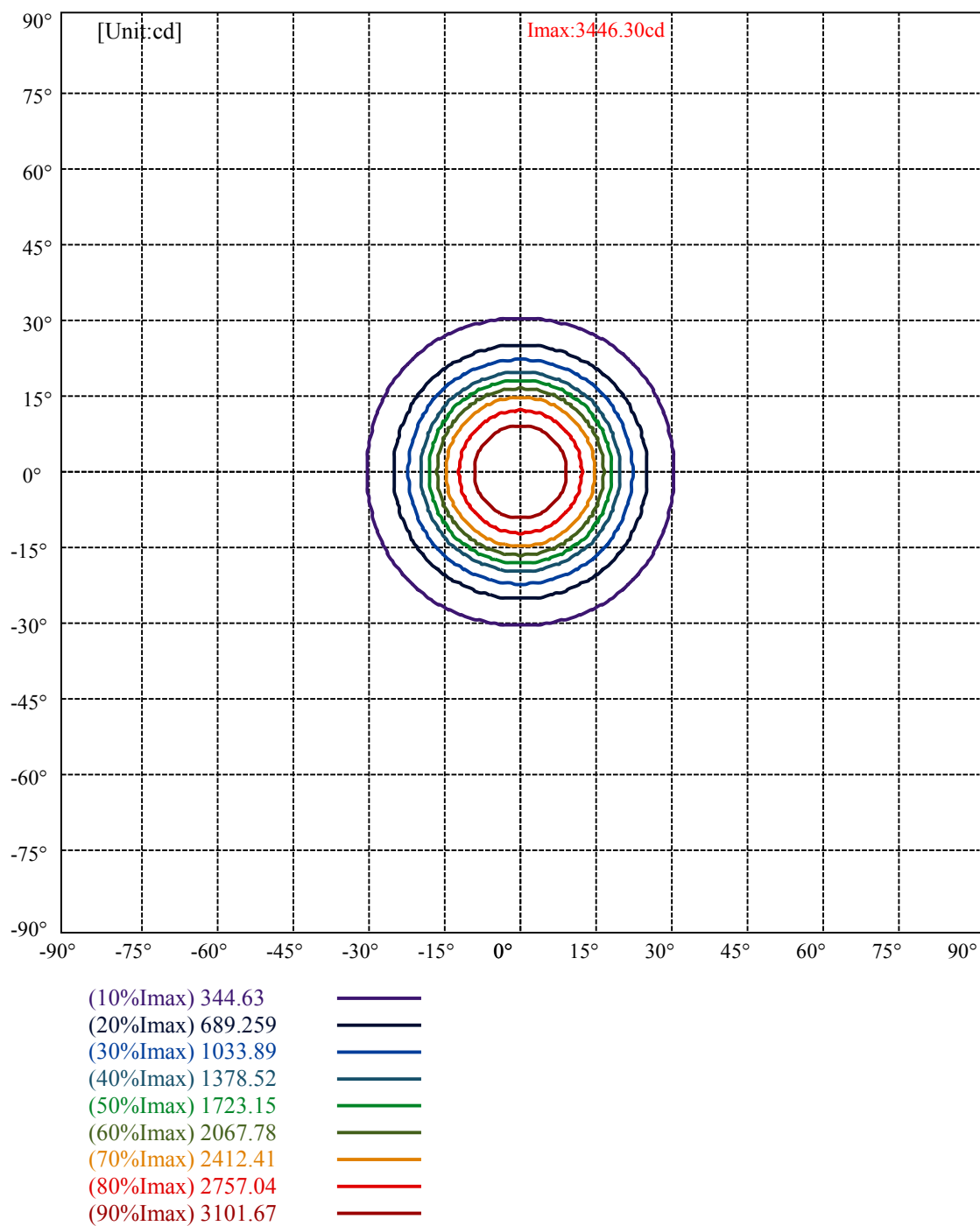
Zone	Lumens	%Lamp	%Fixt
0-30	1256.79	73.84%	89.36%
0-40	1339.37	78.69%	95.23%
0-60	1374.70	80.77%	97.74%
0-90	1402.35	82.39%	99.71%
0-120	1402.35	82.39%	99.71%
0-180	1406.48	82.64%	100.00%
60-90	34.60	2.03%	2.46%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.90	1125.18	66.11%	80.00%

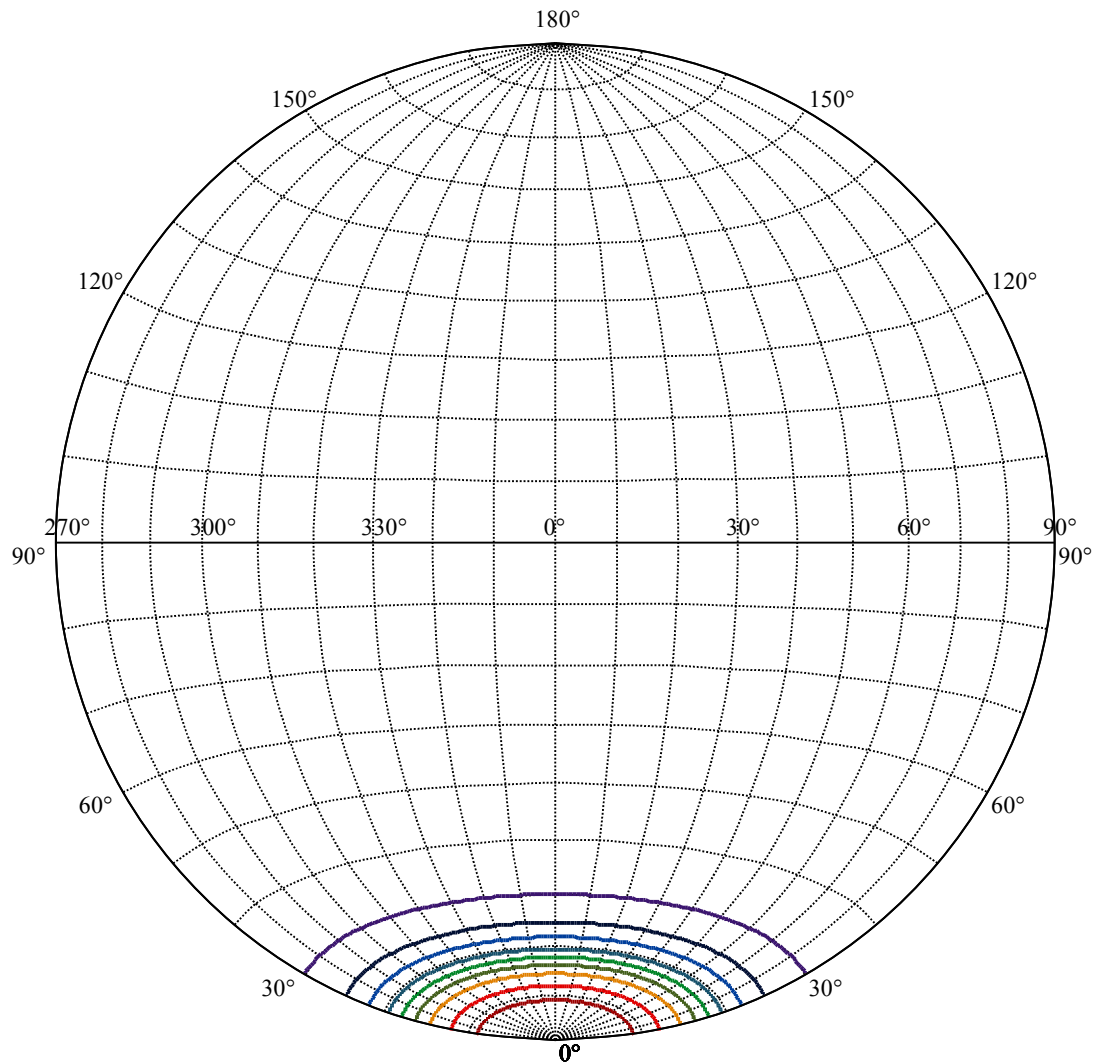
ZONAL LUMEN SUMMARY

0-10	309.89
10-20	617.59
20-30	329.30
30-40	82.58
40-50	20.64
50-60	14.70
60-70	12.39
70-80	10.64
80-90	4.62
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









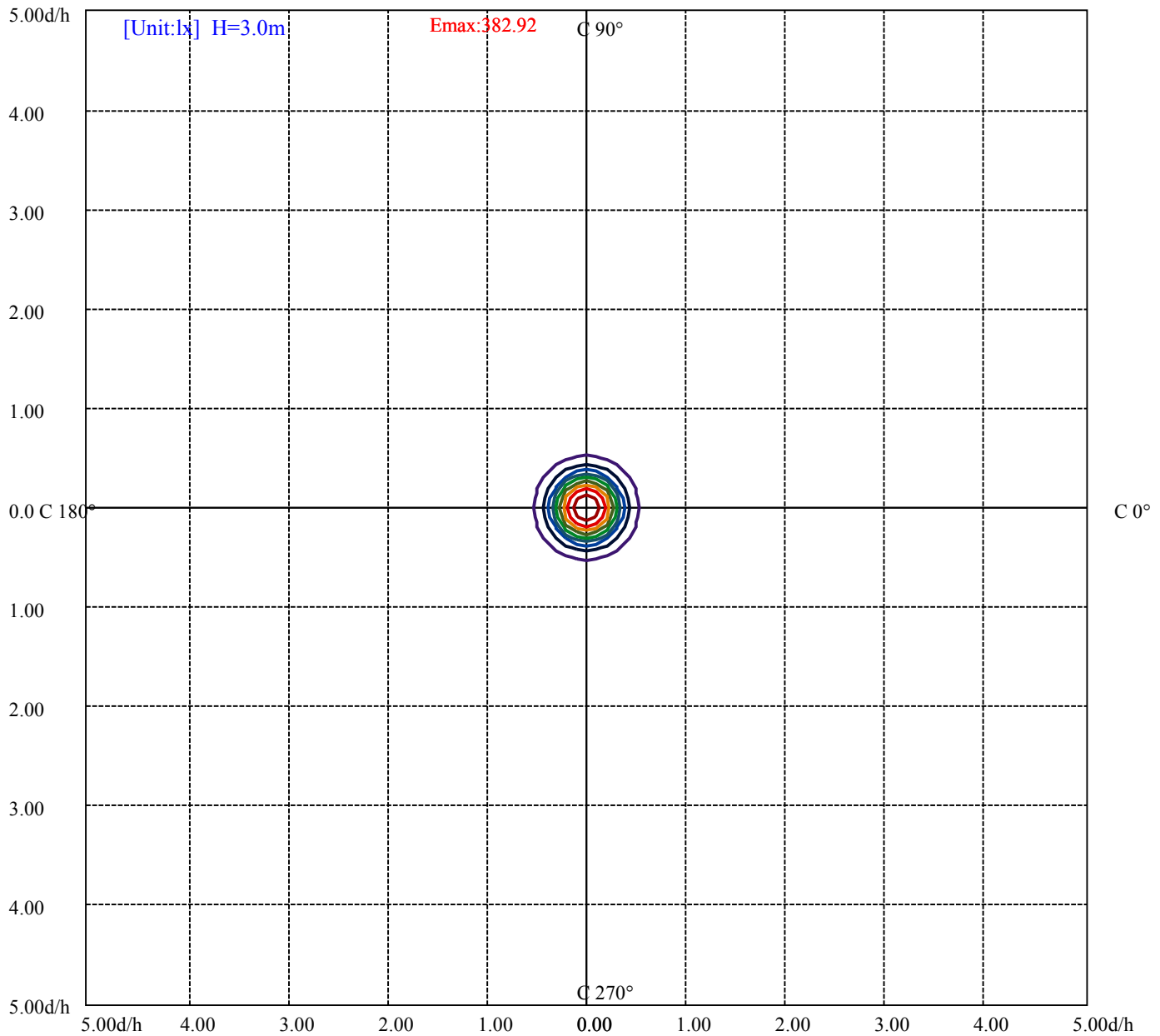
House

[Unit:cd]

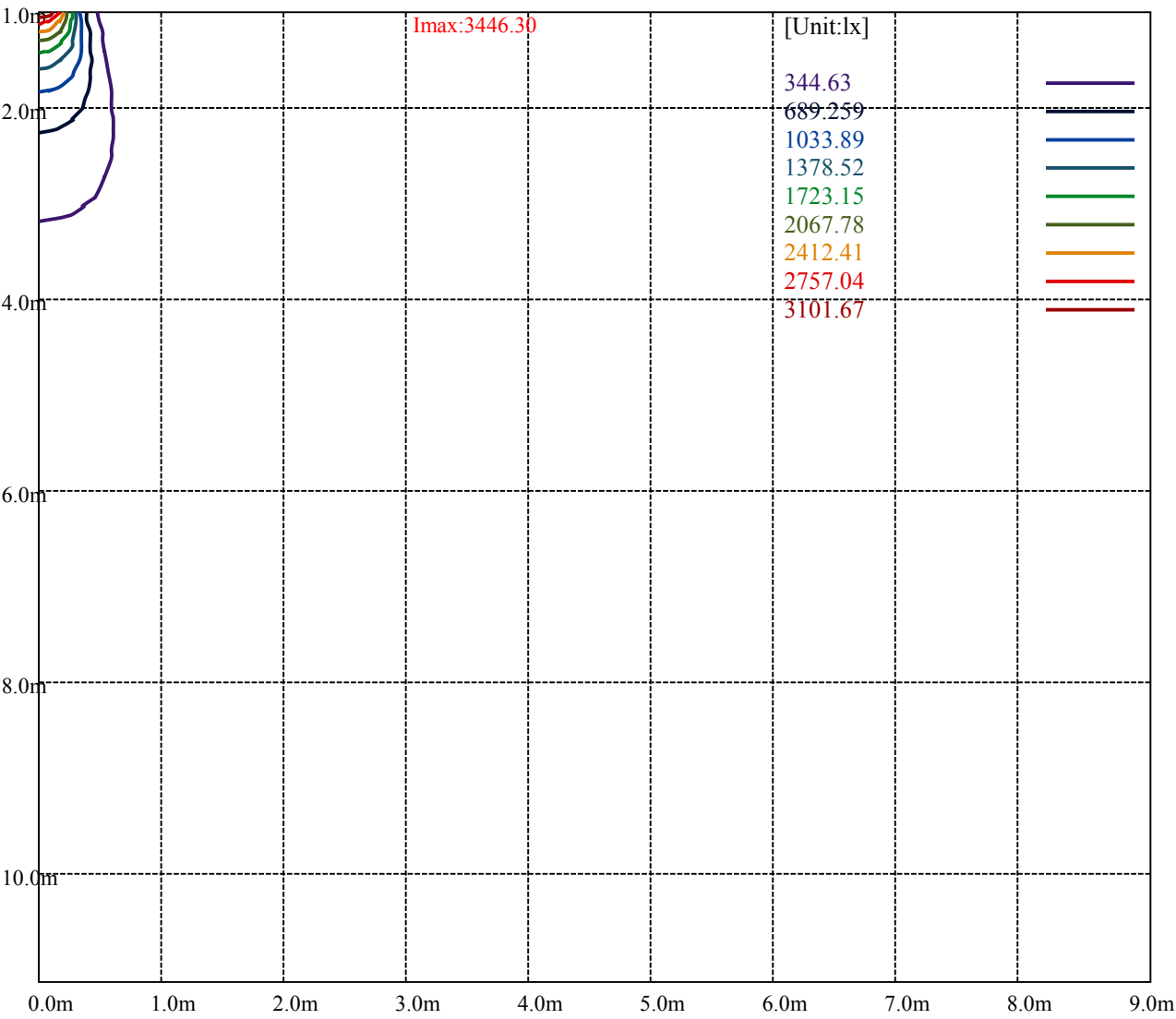
Road

Imax:3446.30

(10%Imax)	344.63	—
(20%Imax)	689.259	—
(30%Imax)	1033.89	—
(40%Imax)	1378.52	—
(50%Imax)	1723.15	—
(60%Imax)	2067.78	—
(70%Imax)	2412.41	—
(80%Imax)	2757.04	—
(90%Imax)	3101.67	—



(10%Emax)	38.29211	—
(20%Emax)	76.58433	—
(30%Emax)	114.8767	—
(40%Emax)	153.1689	—
(50%Emax)	191.4611	—
(60%Emax)	229.7533	—
(70%Emax)	268.0455	—
(80%Emax)	306.3378	—
(90%Emax)	344.6289	—



Luminance Table

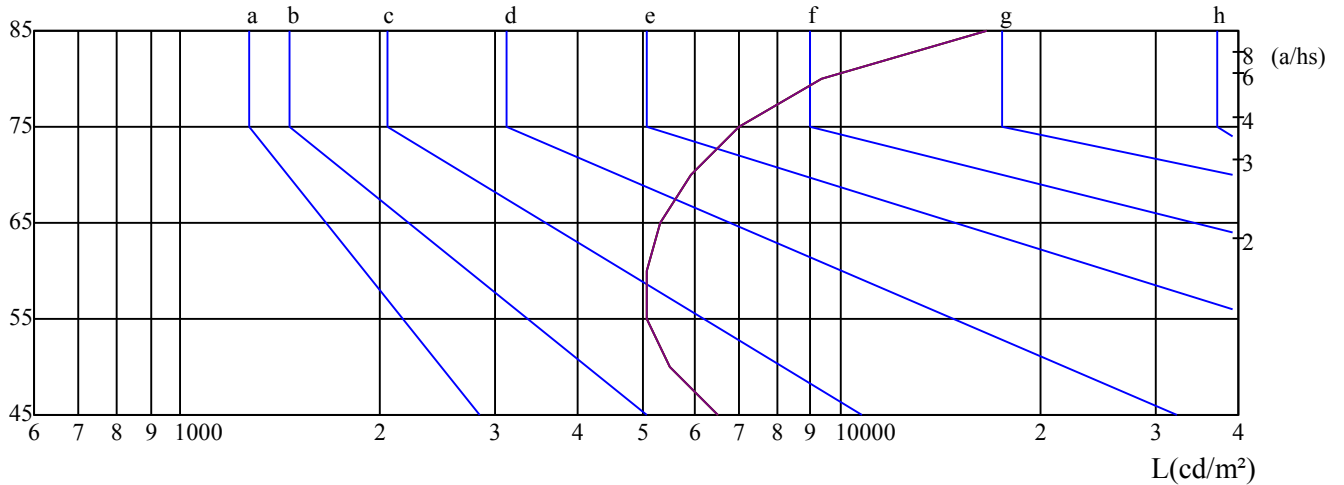
γ	45	50	55	60	65	70	75	80	85
C0	6493	5508	5076	5074	5313	5929	7022	9381	16616
C45	6493	5508	5076	5074	5313	5929	7022	9381	16616
C90	6493	5508	5076	5074	5313	5929	7022	9381	16616

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5313	5313	5313	7022	7022	7022	16616	16616	16616

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

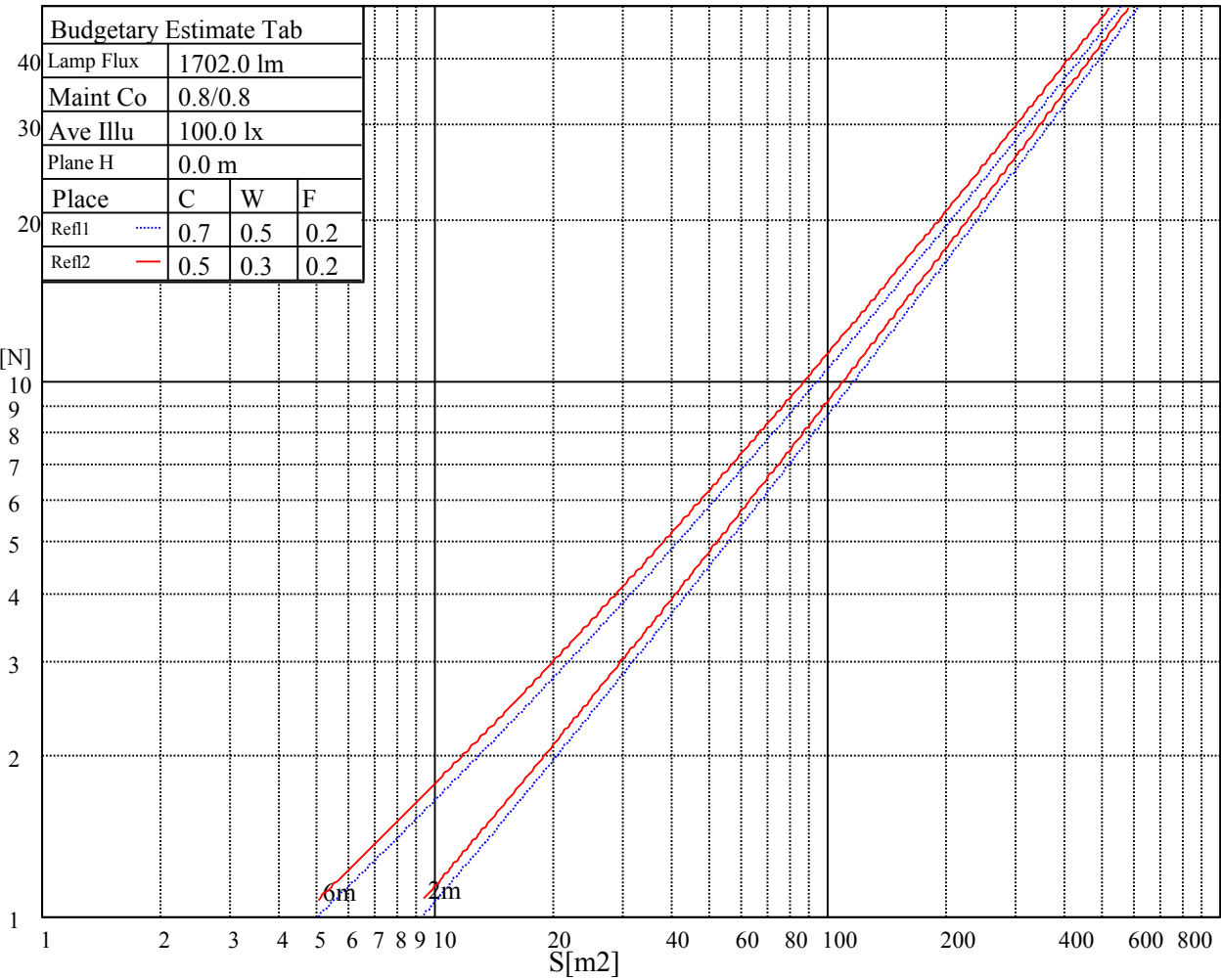
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

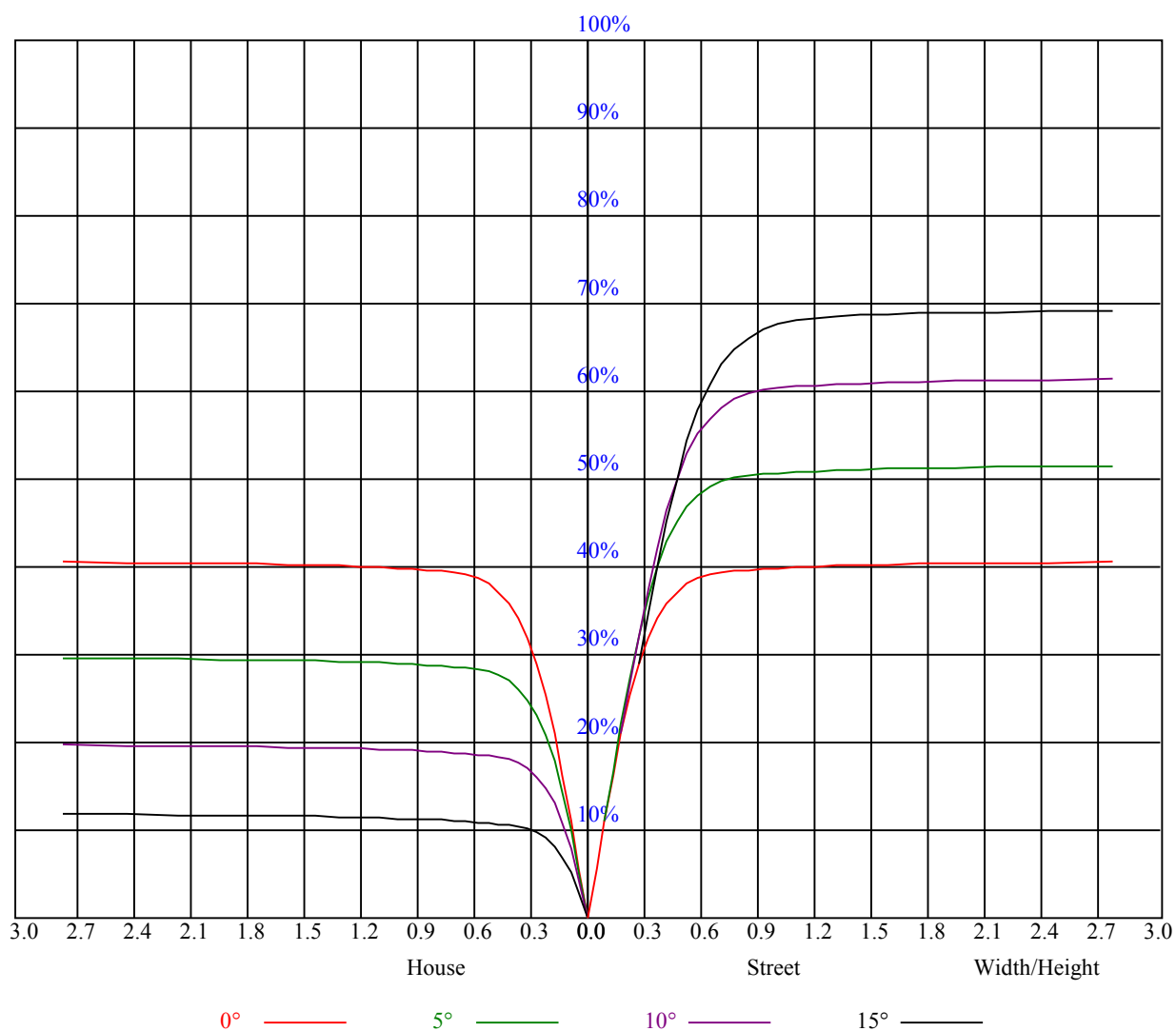
C0 ———

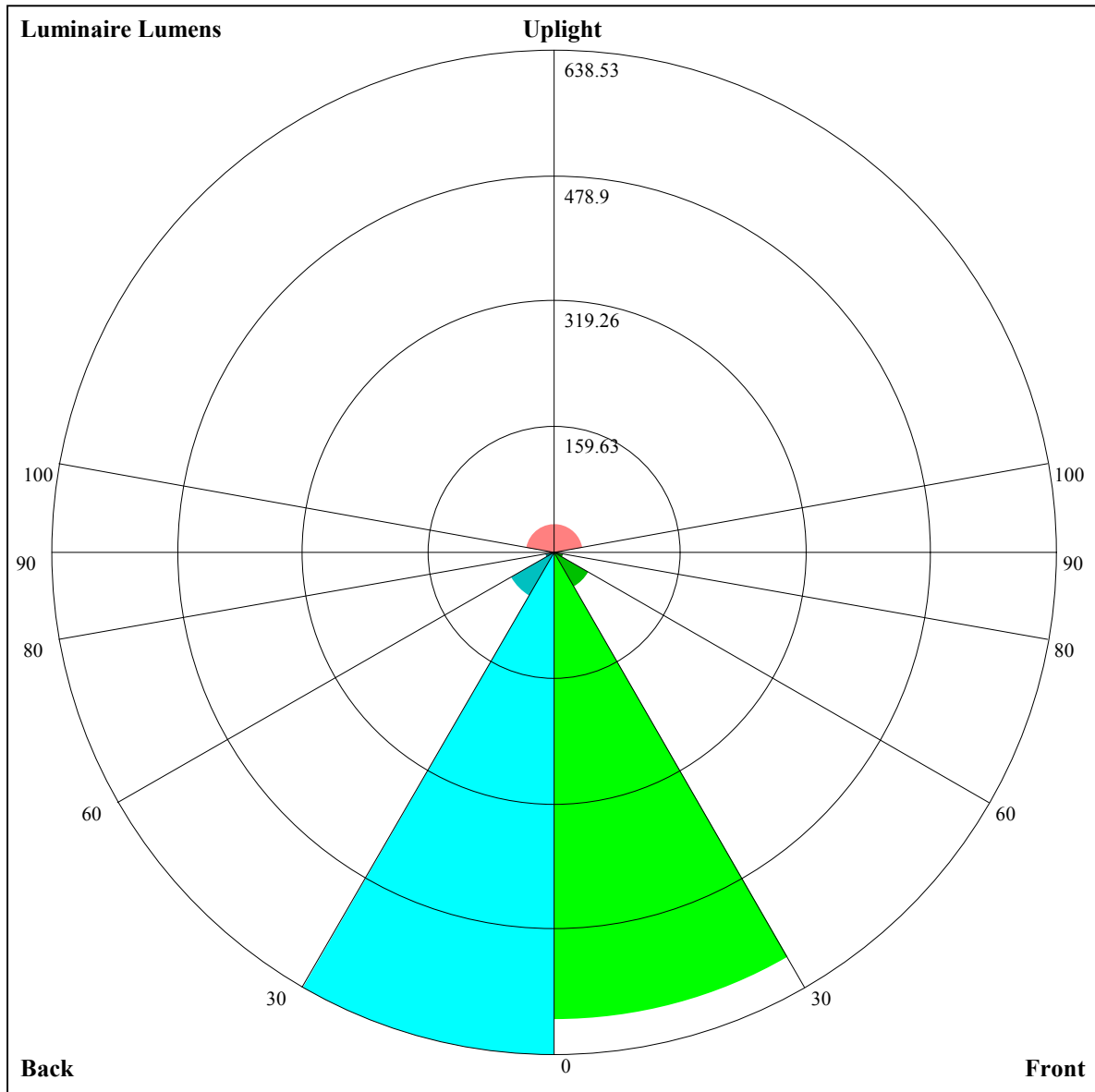
C45 ———

C90 ———



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	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.89	0.90	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.84	0.81	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.77	0.78	0.77	0.76	0.74
3	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.74	0.72	0.71
4	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.74	0.72	0.69	0.73	0.70	0.69	0.68
5	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.71	0.68	0.66	0.70	0.68	0.66	0.65
6	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
7	0.68	0.64	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.60	0.59
8	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55
10	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53





Luminaire Lumens:

FL=595.64,FM=51.89,FH=11.4,FVH=4.32

BL=638.53,BM=63.73,BH=11.57,BVH=4.39

UL=7.75,UH=36.87

BUG Rating:B2-U2-G0

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	3437.44	3404.25	3001.50	2261.25	1170.56	599.06	291.94	55.07	34.65
45.0	3450.94	3366.00	3124.13	2459.25	1438.88	678.94	394.31	63.11	37.24
90.0	3444.75	3278.25	2958.75	2389.50	1080.28	630.06	370.18	80.38	40.22
135.0	3452.06	3312.00	3133.13	2712.38	1872.56	856.69	524.25	199.91	42.69
180.0	3437.44	3337.88	3112.88	2543.06	1371.38	732.83	418.56	75.38	39.88
225.0	3450.94	3336.19	3016.69	2252.81	1079.44	642.21	316.13	56.87	34.93
270.0	3444.75	3407.63	3072.94	2247.75	1160.44	593.44	298.69	57.99	35.49
315.0	3452.06	3375.56	2889.00	1930.50	954.00	533.81	177.24	48.26	31.73
360.0	3437.44	3404.25	3001.50	2261.25	1170.56	599.06	291.94	55.07	34.65
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	24.86	19.46	16.20	14.29	12.60	11.42	10.29	9.34	8.44
45.0	25.65	19.69	16.14	14.12	12.49	11.25	10.13	9.06	7.99
90.0	26.10	19.97	16.14	13.95	12.49	11.19	10.01	9.00	7.93
135.0	27.90	21.09	16.93	14.51	12.83	11.53	10.35	9.28	8.16
180.0	26.66	20.19	16.65	14.46	12.71	11.48	10.41	9.45	8.44
225.0	24.53	18.96	15.69	13.78	12.26	11.03	9.90	8.72	7.76
270.0	24.47	18.90	15.75	13.73	12.15	11.03	9.73	8.66	7.65
315.0	22.61	18.11	15.08	13.22	11.64	10.63	9.45	8.44	7.59
360.0	24.86	19.46	16.20	14.29	12.60	11.42	10.29	9.34	8.44
C/γ(°)	90.0								
0.0	6.86								
45.0	7.09								
90.0	7.03								
135.0	7.31								
180.0	7.59								
225.0	7.03								
270.0	6.98								
315.0	6.92								
360.0	6.86								