
Client:

LumCAT: CT01D03538AF

Luminaire:

Report No: nt0100

Voltage(V): 34.9500

Test No: GC2019122017

Current(A): 0.1970

LampCAT: LUMINUS CXM-6-AC40

Power (W): 6.8800

Lamp flux(lm): 861.0

PF: 1.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 772.63, Efficiency(%): 89.74% , Luminous Efficacy(lm/W): 112.30

Central intensity(cd): 1536.047, Maximum intensity(cd): 1536.047

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=36.8

[C90/270]Total=36.8

Field angle(10%Imax): [C0/180]Total=65.6

[C90/270]Total=65.6

Maximum s/h(1/2): C0_180=0.60 C90_270=0.60

Maximum s/h(1/4): C0_180=0.61 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 89.74%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 91.740%

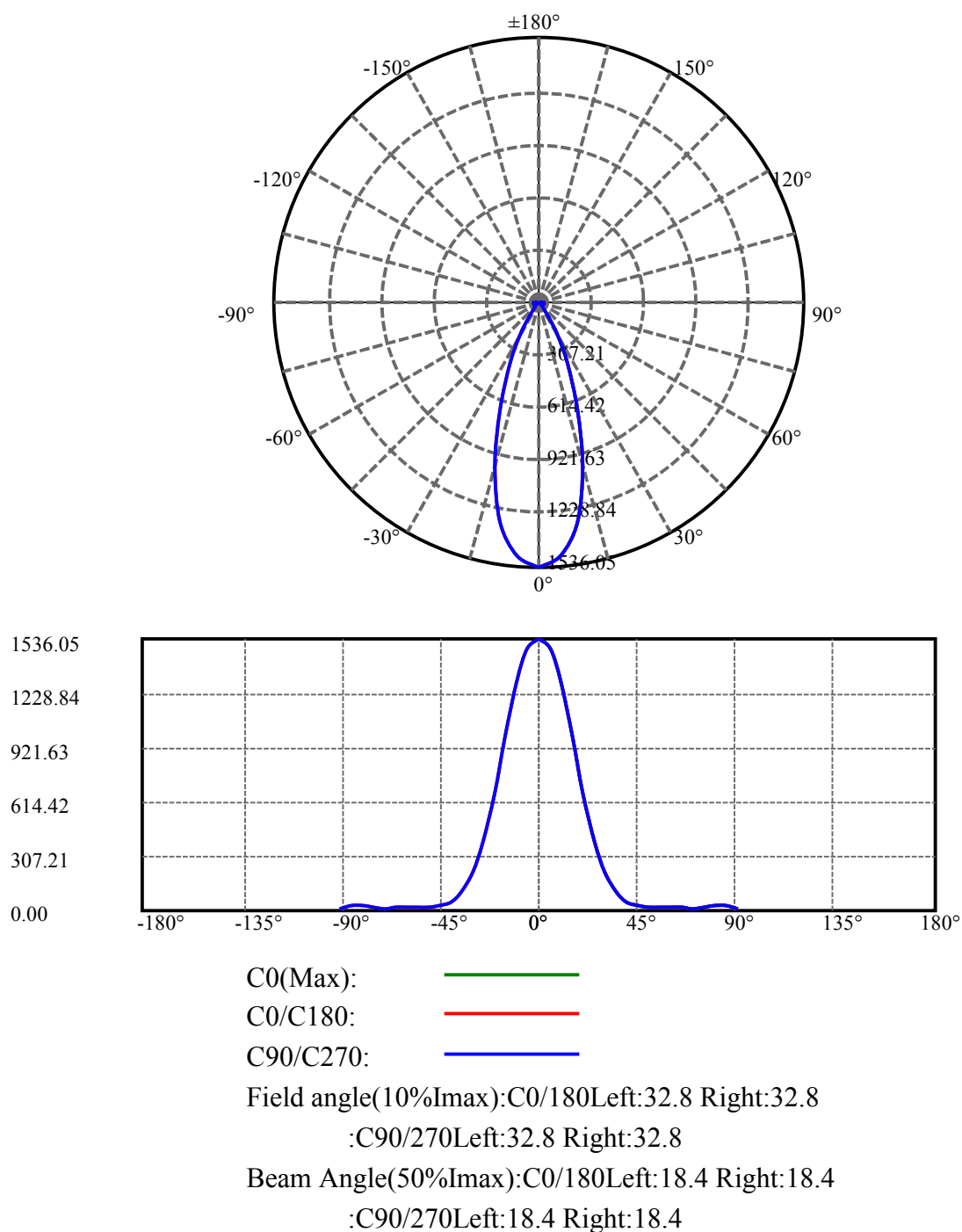
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1536.047	0.000	0	.000%	.000%
5.0	1477.195	36.022	36.022	4.184%	4.662%
10.0	1294.917	99.167	135.19	11.518%	17.497%
15.0	981.323	135.025	270.215	15.682%	34.973%
20.0	667.863	135.916	406.131	15.786%	52.565%
25.0	387.745	110.714	516.845	12.859%	66.894%
30.0	216.802	76.506	593.351	8.886%	76.796%
35.0	102.431	47.009	640.36	5.460%	82.881%
40.0	51.195	25.631	665.991	2.977%	86.198%
45.0	27.077	14.493	680.484	1.683%	88.074%
50.0	22.092	9.935	690.419	1.154%	89.360%
55.0	21.009	9.372	699.791	1.088%	90.573%
60.0	18.014	9.020	708.811	1.048%	91.740%
65.0	15.054	8.039	716.85	.934%	92.781%
70.0	13.690	7.278	724.128	.845%	93.723%
75.0	20.595	8.961	733.09	1.041%	94.882%
80.0	31.275	13.879	746.968	1.612%	96.679%
85.0	28.013	16.110	763.078	1.871%	98.764%
90.0	6.870	9.551	772.629	1.109%	100.000%

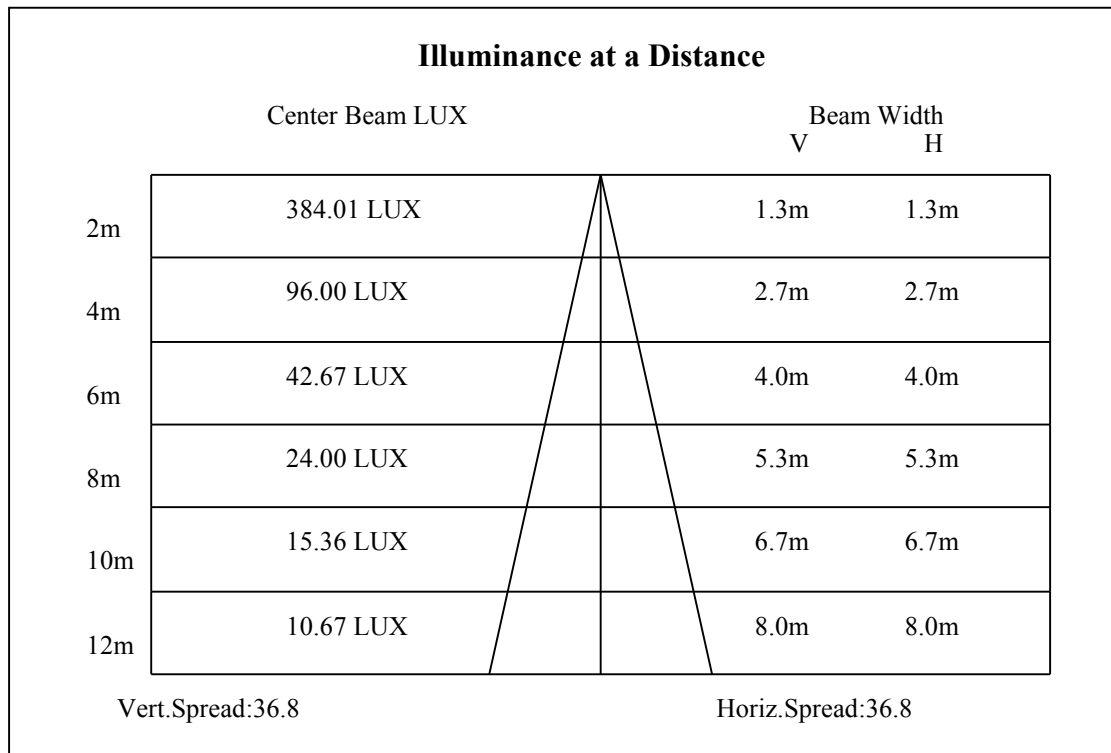
ZONAL LUMEN SUMMARY

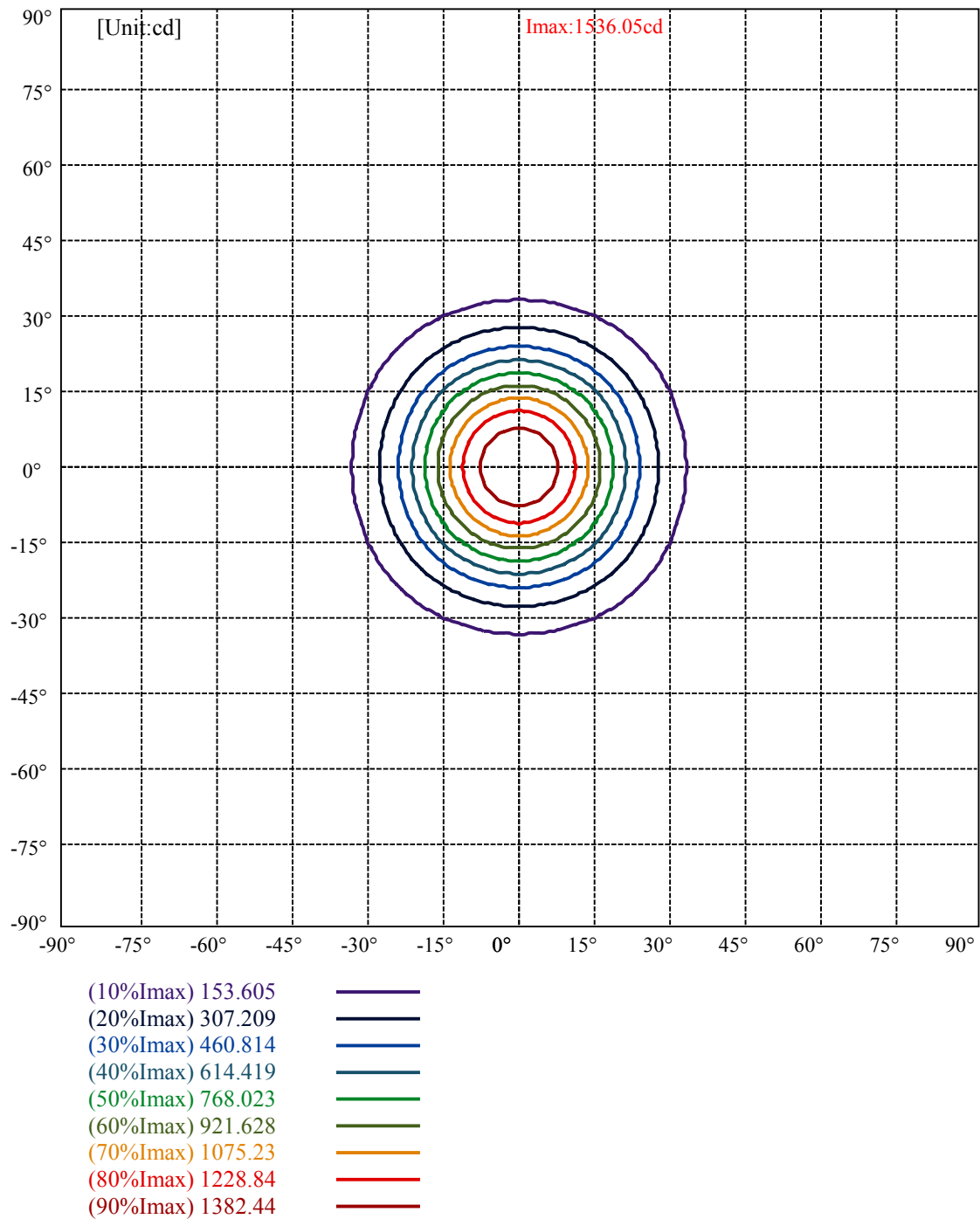
Zone	Lumens	%Lamp	%Fixt
0-30	593.35	68.91%	76.80%
0-40	665.99	77.35%	86.20%
0-60	708.81	82.32%	91.74%
0-90	763.08	88.63%	98.76%
0-120	763.08	88.63%	98.76%
0-180	772.63	89.74%	100.00%
60-90	63.29	7.35%	8.19%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-32.63	618.10	71.79%	80.00%

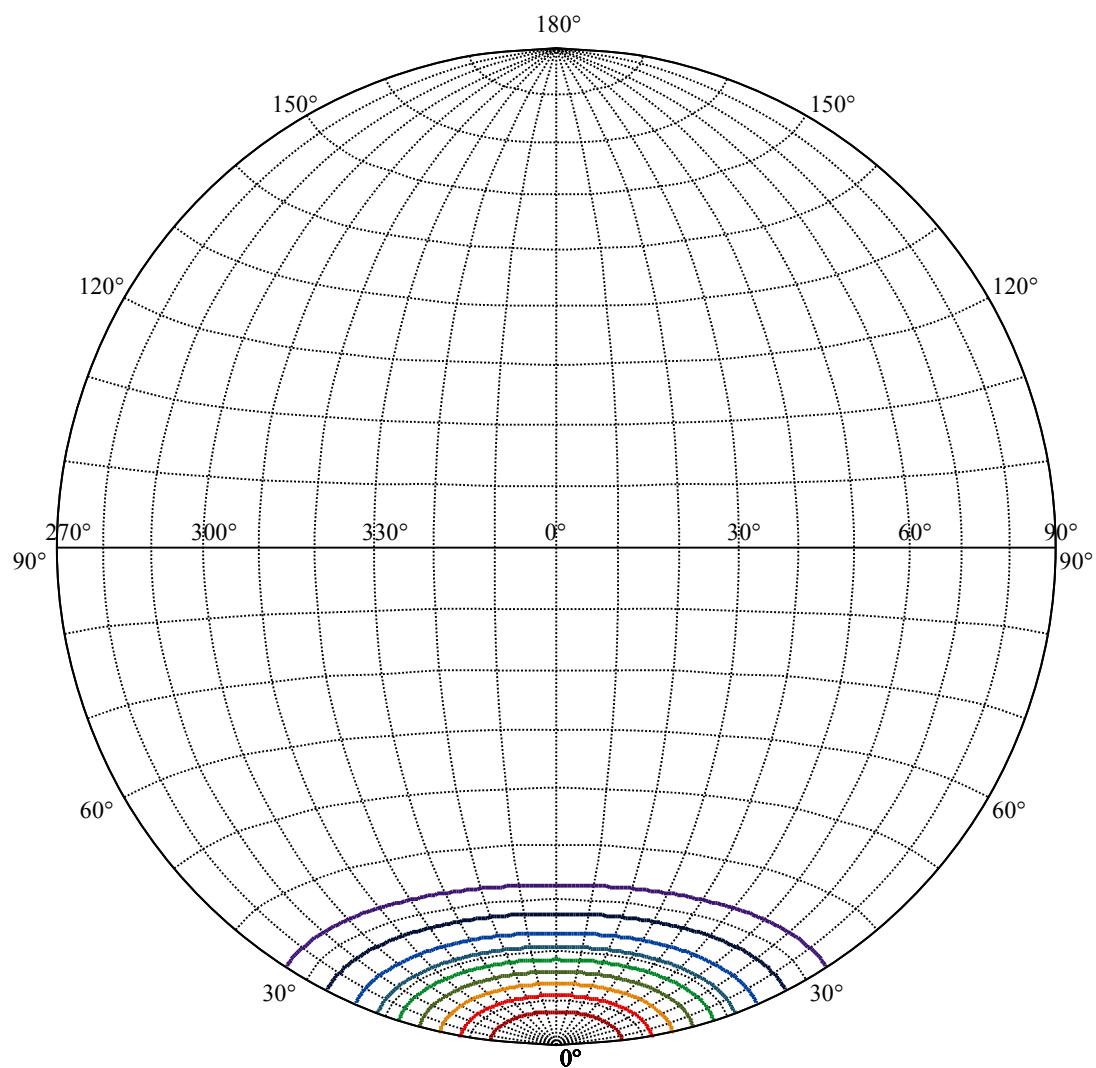
ZONAL LUMEN SUMMARY

0-10	135.19
10-20	270.94
20-30	187.22
30-40	72.64
40-50	24.43
50-60	18.39
60-70	15.32
70-80	22.84
80-90	16.11
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:1536.05

(10%Imax) 153.605

(20%Imax) 307.209

(30%Imax) 460.814

(40%Imax) 614.419

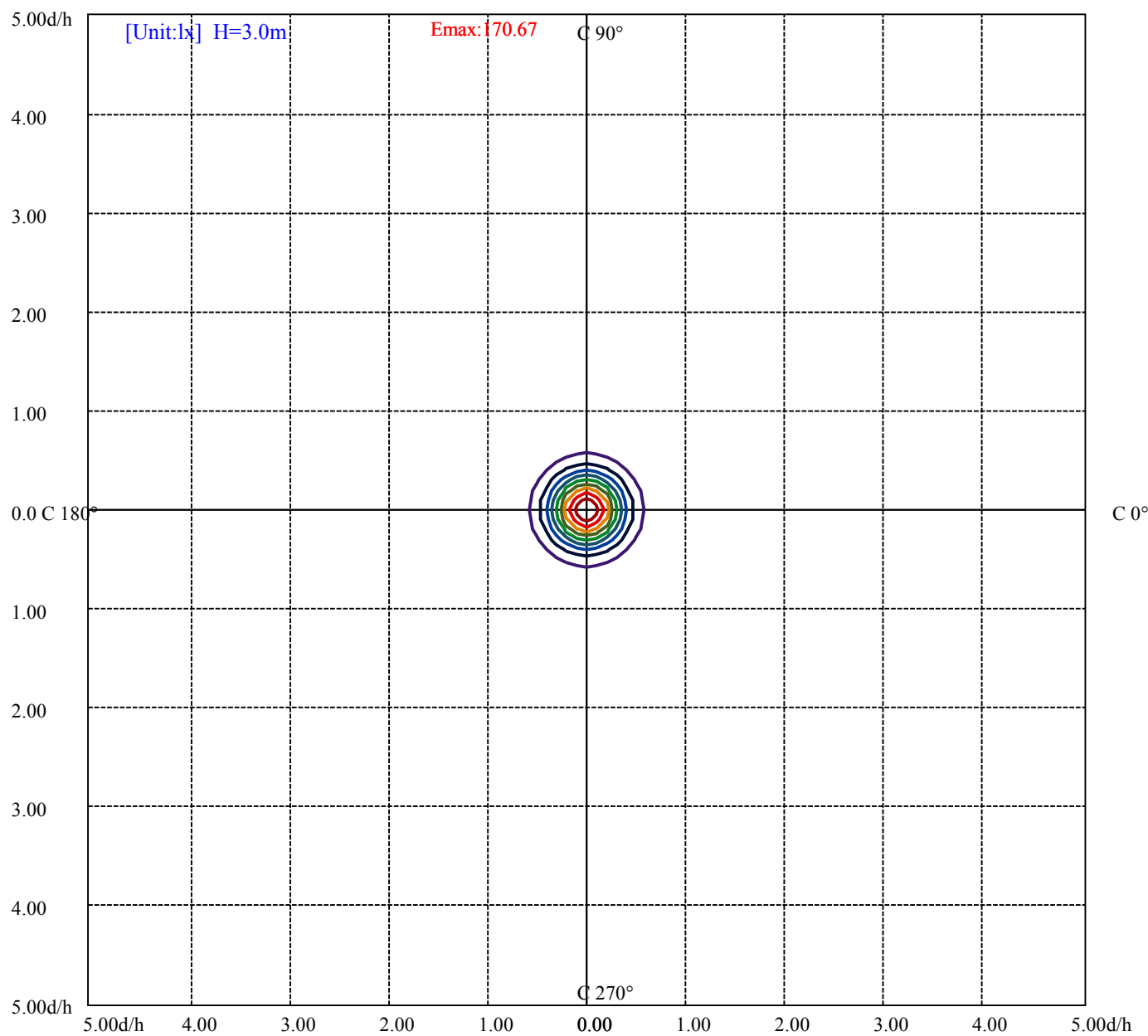
(50%Imax) 768.023

(60%Imax) 921.628

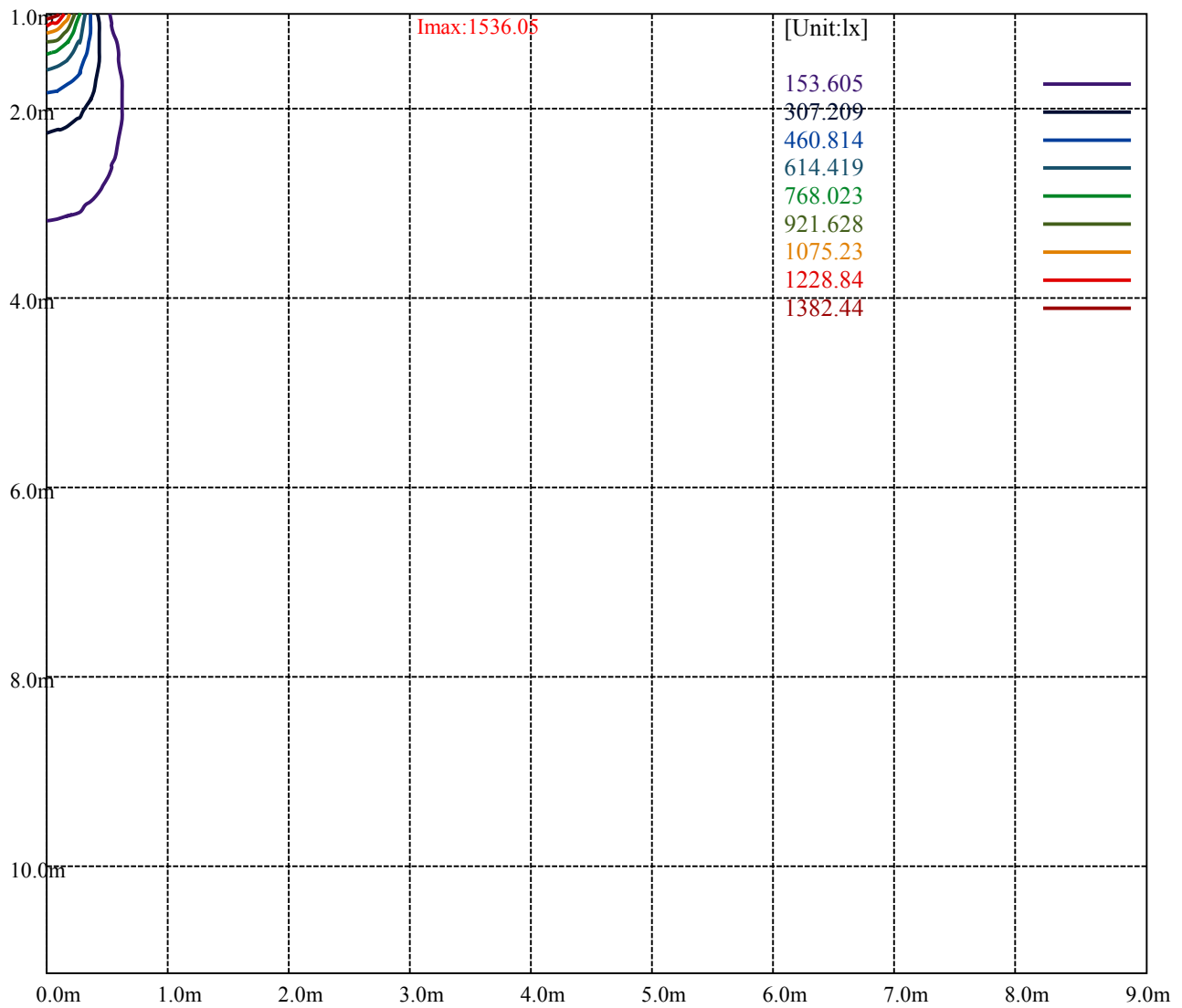
(70%Imax) 1075.23

(80%Imax) 1228.84

(90%Imax) 1382.44



(10%E _{max}) 17.06722	—
(20%E _{max}) 34.13433	—
(30%E _{max}) 51.20155	—
(40%E _{max}) 68.26867	—
(50%E _{max}) 85.33589	—
(60%E _{max}) 102.403	—
(70%E _{max}) 119.47	—
(80%E _{max}) 136.5378	—
(90%E _{max}) 153.6044	—



Luminance Table

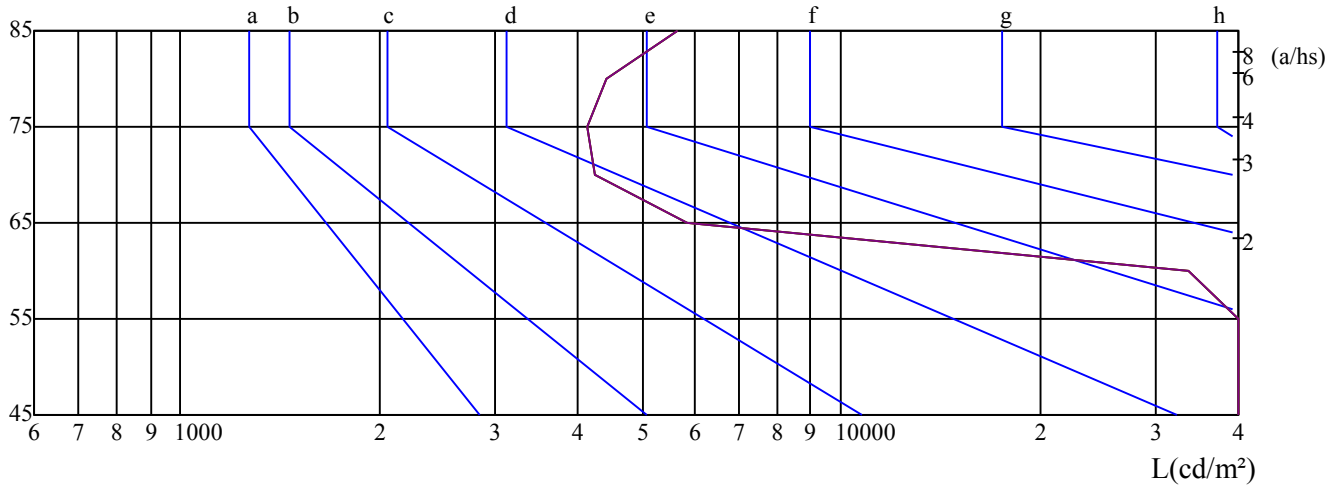
γ	45	50	55	60	65	70	75	80	85
C0	46650	52836	53885	33658	5848	4245	4131	4405	5640
C45	46650	52836	53885	33658	5848	4245	4131	4405	5640
C90	46650	52836	53885	33658	5848	4245	4131	4405	5640

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5848	5848	5848	4131	4131	4131	5640	5640	5640

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

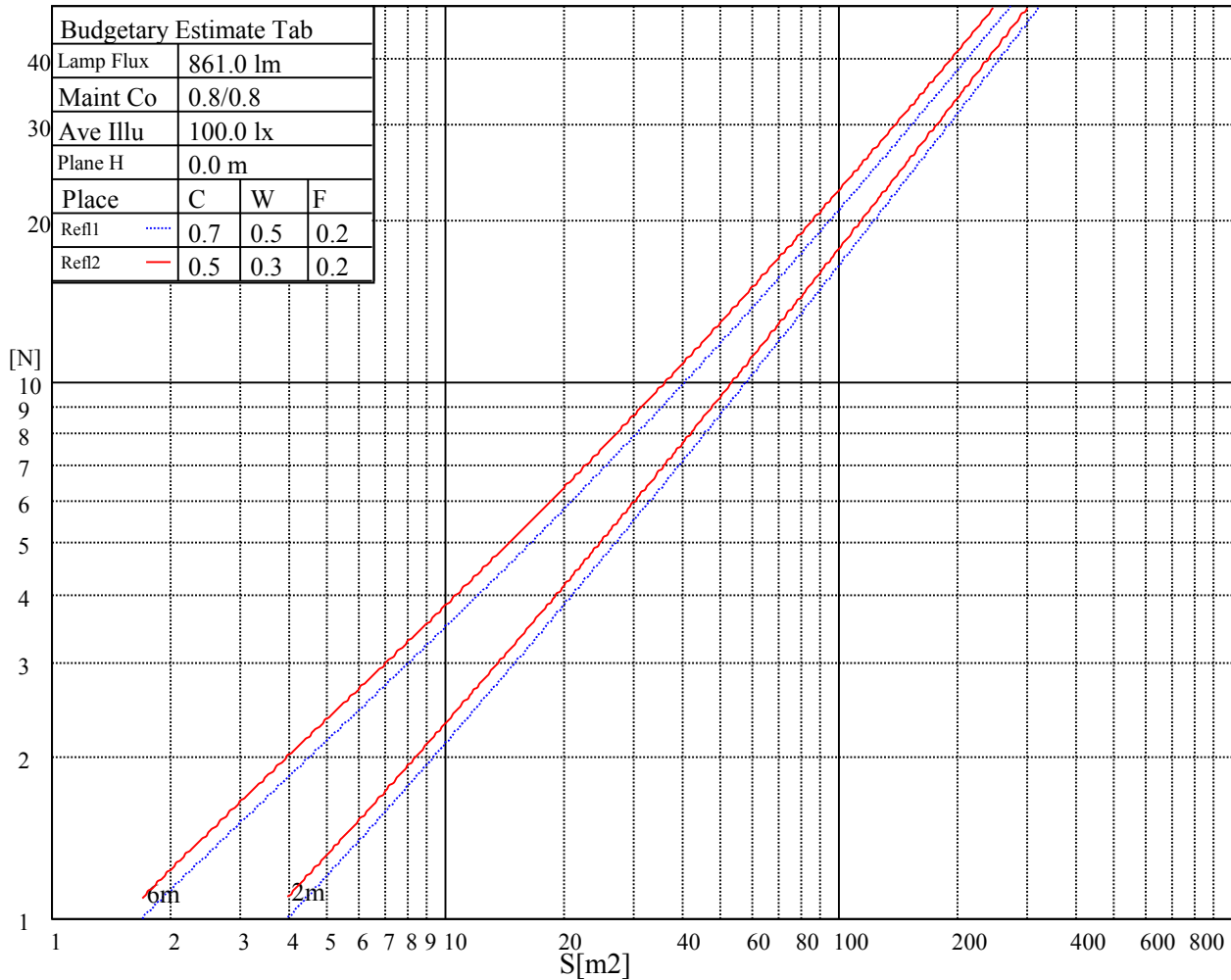
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

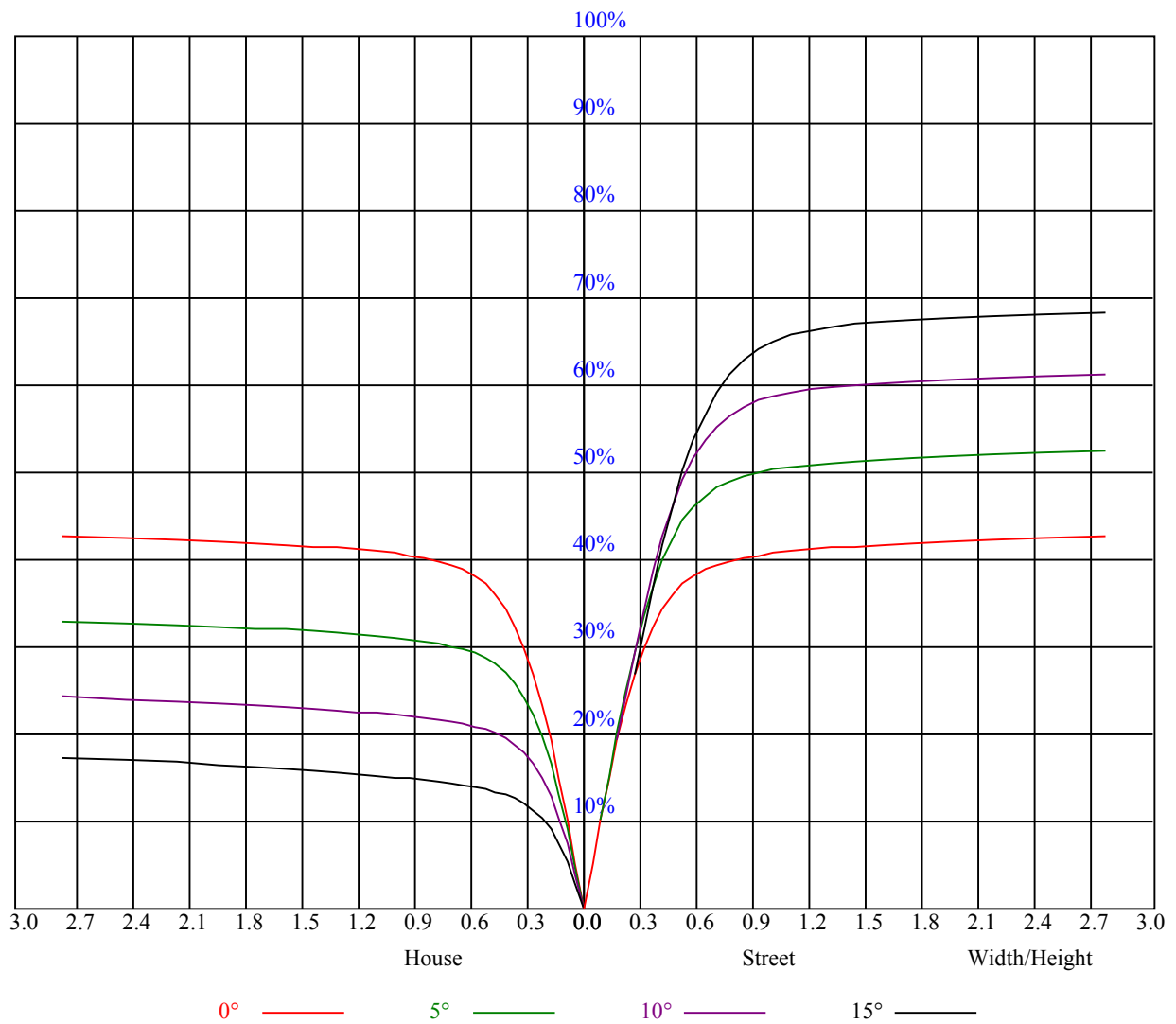
C0 ———

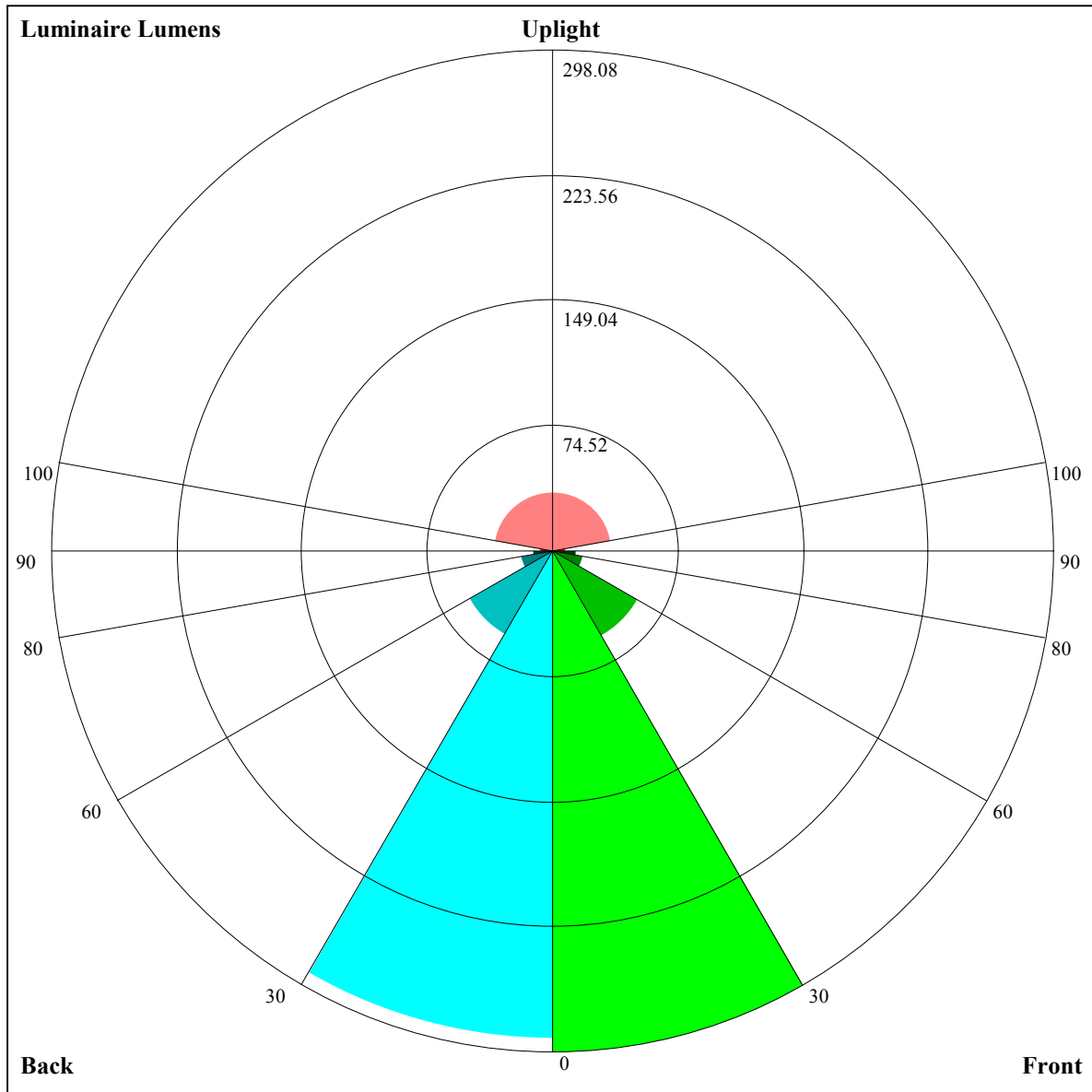
C45 ———

C90 ———



RHOC	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	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.92	0.92	0.92	0.90
1	0.97	0.95	0.92	0.95	0.93	0.91	0.92	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.81
2	0.90	0.86	0.83	0.89	0.85	0.82	0.86	0.83	0.80	0.83	0.81	0.78	0.81	0.79	0.77	0.75
3	0.85	0.80	0.76	0.83	0.79	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.71
4	0.80	0.75	0.71	0.79	0.74	0.70	0.77	0.73	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.66
5	0.75	0.70	0.66	0.74	0.70	0.66	0.73	0.69	0.65	0.71	0.68	0.65	0.70	0.67	0.64	0.63
6	0.71	0.66	0.62	0.71	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.60
7	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.57
8	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.62	0.58	0.55	0.54
9	0.62	0.57	0.54	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52
10	0.59	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.51	0.50





Luminaire Lumens:

FL=298.08,FM=58.16,FH=18.64,FVH=13.76

BL=290.39,BM=57.34,BH=19.75,BVH=11.96

UL=7.5,UH=35.67

BUG Rating:B1-U2-G1

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	1546.88	1484.44	1303.88	1013.63	698.06	411.75	298.13	102.77	45.73		
45.0	1523.25	1545.19	1445.06	1195.88	855.00	504.00	286.31	146.25	69.69		
90.0	1543.50	1563.19	1475.44	1121.12	866.19	527.79	294.47	151.26	78.24		
135.0	1530.56	1551.94	1457.44	1226.25	855.56	510.75	286.88	151.14	76.84		
180.0	1546.88	1495.13	1311.75	931.33	602.04	328.44	168.08	86.46	45.62		
225.0	1523.25	1404.56	1112.06	754.88	478.63	254.53	121.95	61.71	33.58		
270.0	1543.50	1391.06	1144.13	802.69	479.81	284.06	137.42	61.31	30.88		
315.0	1530.56	1382.06	1109.59	804.83	507.60	280.63	141.19	58.56	28.97		
360.0	1546.88	1484.44	1303.88	1013.63	698.06	411.75	298.13	102.77	45.73		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	23.85	19.52	18.79	18.39	15.08	13.16	15.58	28.13	35.27		
45.0	30.94	22.67	21.71	19.69	16.37	14.23	17.49	26.94	26.10		
90.0	35.16	26.27	24.92	20.59	17.10	15.02	22.50	31.44	25.82		
135.0	34.88	25.82	24.30	19.97	16.43	14.51	23.74	31.50	25.14		
180.0	27.06	23.85	21.71	17.16	14.46	14.91	25.03	32.34	22.95		
225.0	23.46	21.38	19.35	15.30	12.99	12.94	21.32	31.61	22.56		
270.0	21.88	19.46	19.41	16.48	14.06	12.49	19.35	34.82	31.61		
315.0	19.41	17.78	17.89	16.54	13.95	12.26	19.74	33.41	34.65		
360.0	23.85	19.52	18.79	18.39	15.08	13.16	15.58	28.13	35.27		
C/γ(°)	90.0										
0.0	17.33										
45.0	8.49										
90.0	5.51										
135.0	3.94										
180.0	3.82										
225.0	3.99										
270.0	3.94										
315.0	7.93										
360.0	17.33										