
Client:

LumCAT: LM01D03030AE

Luminaire:

Report No: nt0100

Voltage(V): 34.9300

Test No: GC2019122012

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): 768.20, Efficiency(%): 89.22% , Luminous Efficacy(lm/W): 111.66

Central intensity(cd): 2039.625, Maximum intensity(cd): 2039.625

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=29.4

[C90/270]Total=29.4

Field angle(10%Imax): [C0/180]Total=58.0

[C90/270]Total=58.0

Maximum s/h(1/2): C0_180=0.49 C90_270=0.49

Maximum s/h(1/4): C0_180=0.51 C90_270=0.51

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 89.22%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.612%

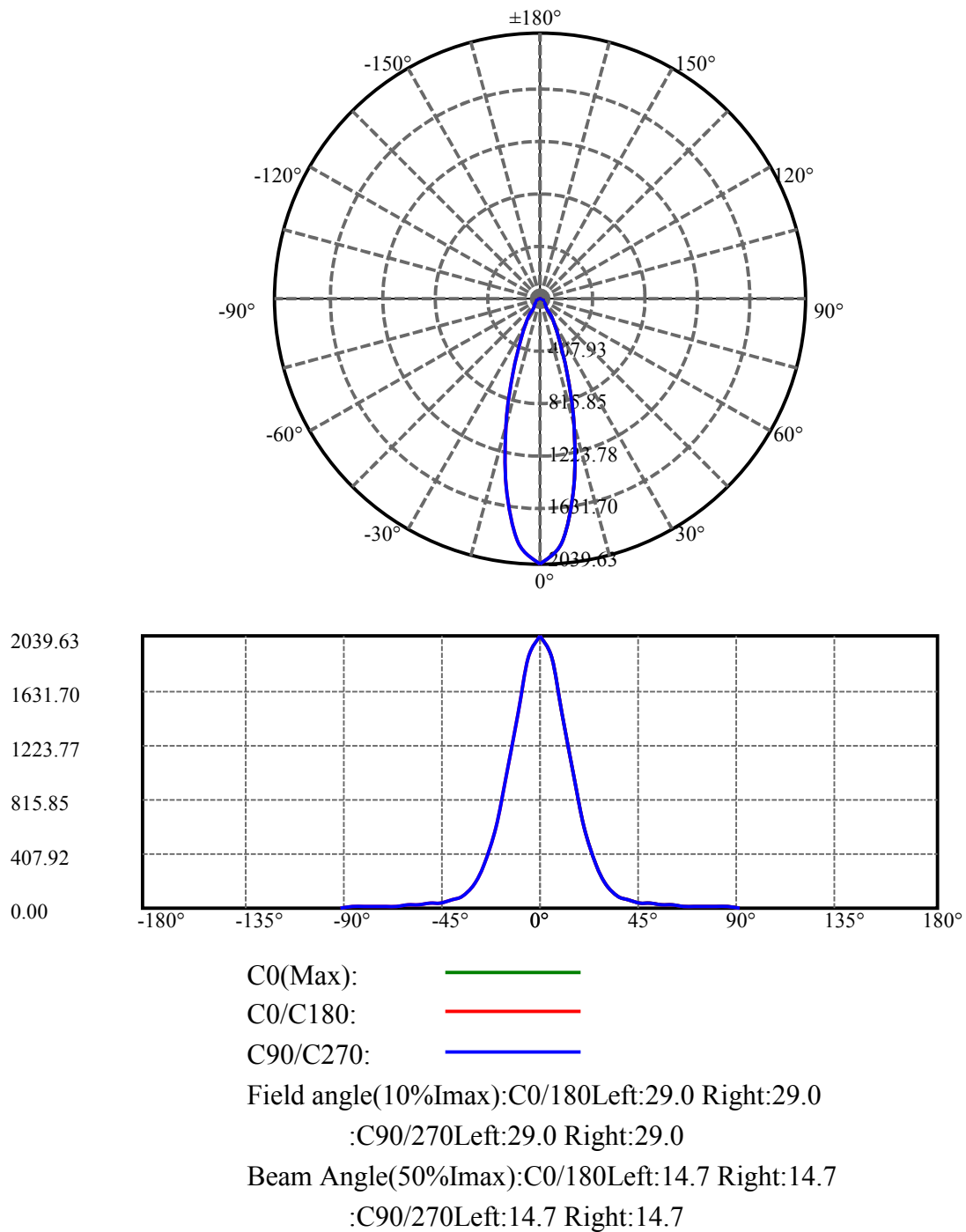
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2039.625	0.000	0	.000%	.000%
5.0	1875.656	46.806	46.806	5.436%	6.093%
10.0	1459.188	119.298	166.104	13.856%	21.623%
15.0	987.159	145.116	311.22	16.854%	40.513%
20.0	605.398	131.249	442.469	15.244%	57.598%
25.0	333.731	98.497	540.966	11.440%	70.420%
30.0	172.491	64.063	605.029	7.441%	78.760%
35.0	94.043	39.249	644.278	4.559%	83.869%
40.0	59.147	25.559	669.836	2.968%	87.196%
45.0	41.330	18.604	688.44	2.161%	89.618%
50.0	32.780	14.975	703.415	1.739%	91.567%
55.0	25.805	12.738	716.153	1.479%	93.225%
60.0	20.285	10.654	726.807	1.237%	94.612%
65.0	16.988	9.061	735.868	1.052%	95.792%
70.0	14.421	7.953	743.821	.924%	96.827%
75.0	12.241	6.969	750.79	.809%	97.734%
80.0	11.848	6.446	757.236	.749%	98.573%
85.0	11.510	6.347	763.582	.737%	99.400%
90.0	5.337	4.613	768.195	.536%	100.000%

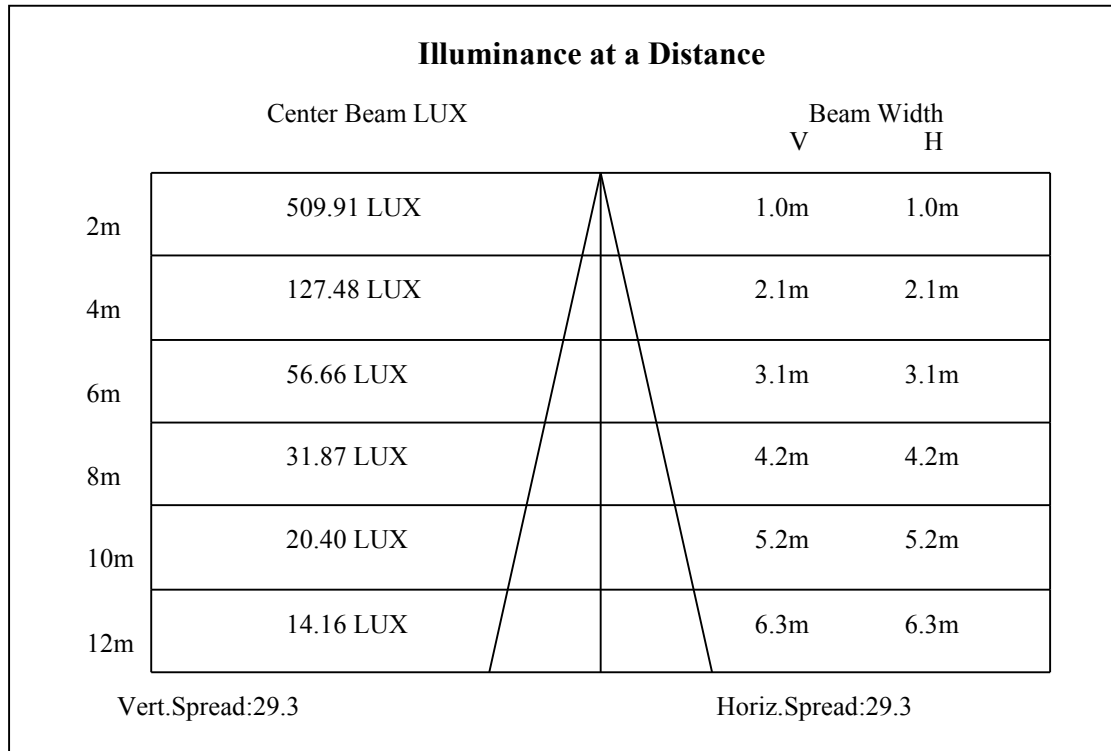
ZONAL LUMEN SUMMARY

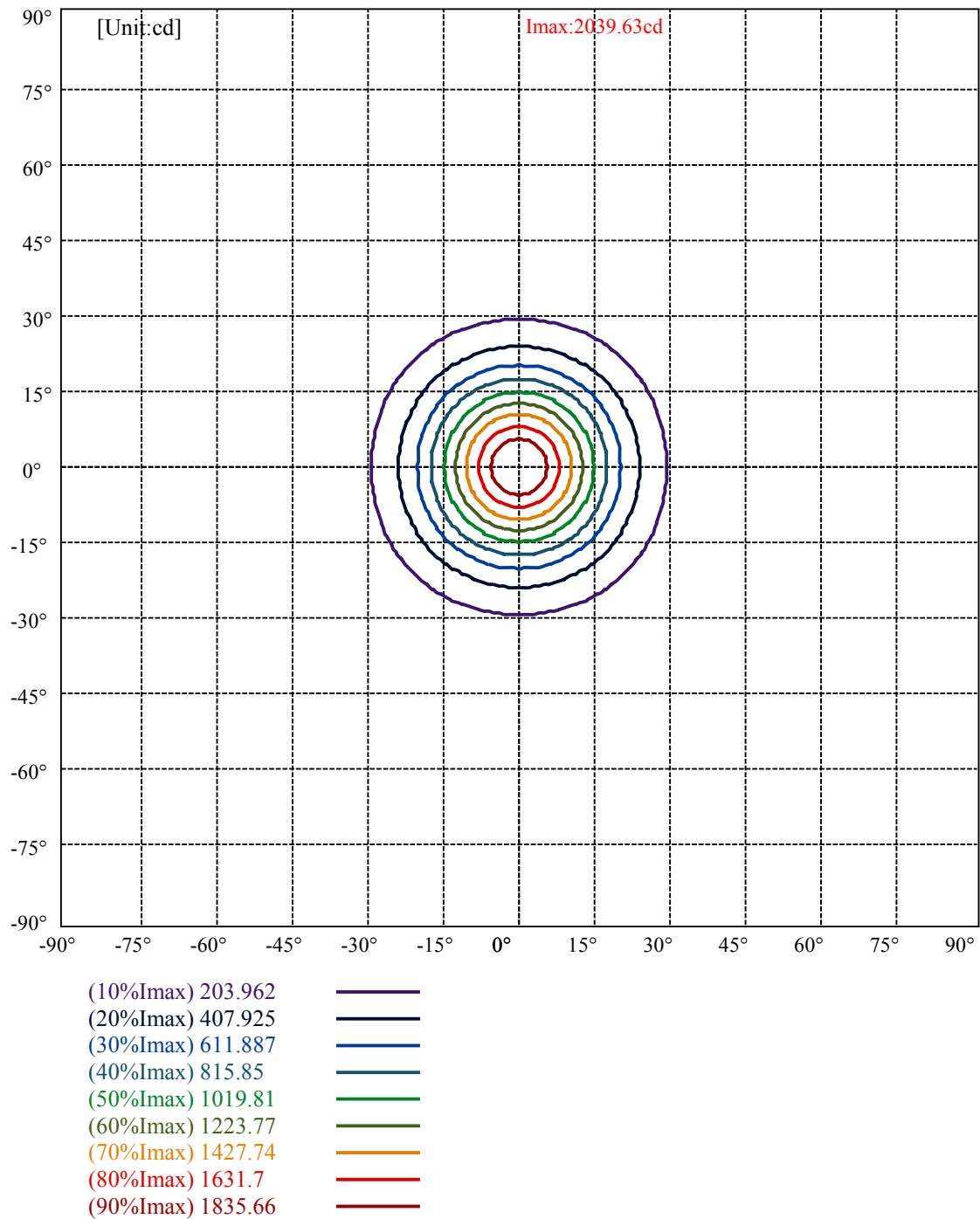
Zone	Lumens	%Lamp	%Fixt
0-30	605.03	70.27%	78.76%
0-40	669.84	77.80%	87.20%
0-60	726.81	84.41%	94.61%
0-90	763.58	88.69%	99.40%
0-120	763.58	88.69%	99.40%
0-180	768.20	89.22%	100.00%
60-90	47.43	5.51%	6.17%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.21	614.56	71.38%	80.00%

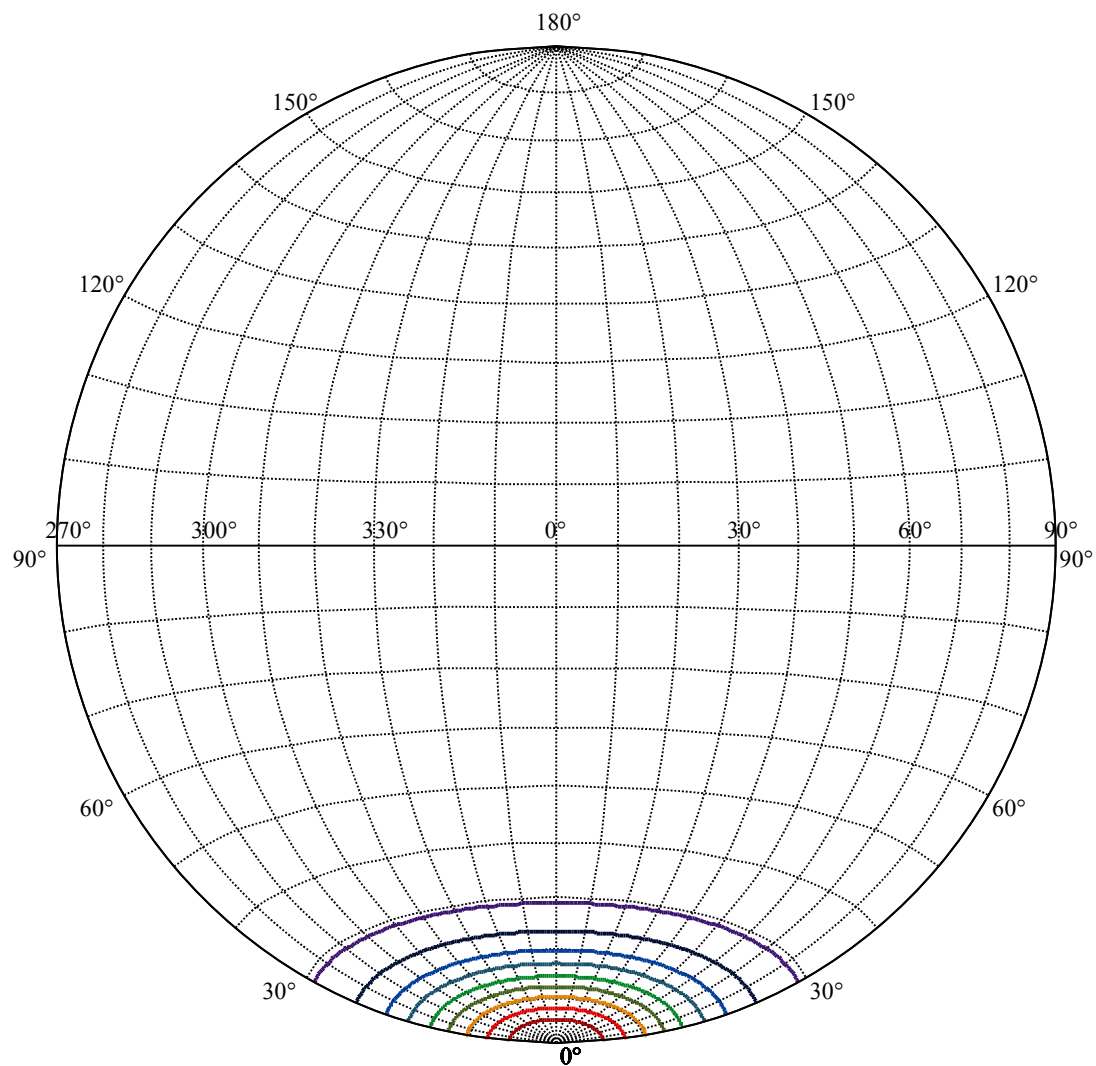
ZONAL LUMEN SUMMARY

0-10	166.10
10-20	276.36
20-30	162.56
30-40	64.81
40-50	33.58
50-60	23.39
60-70	17.01
70-80	13.41
80-90	6.35
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:2039.63

(10%Imax) 203.962

(20%Imax) 407.925

(30%Imax) 611.887

(40%Imax) 815.85

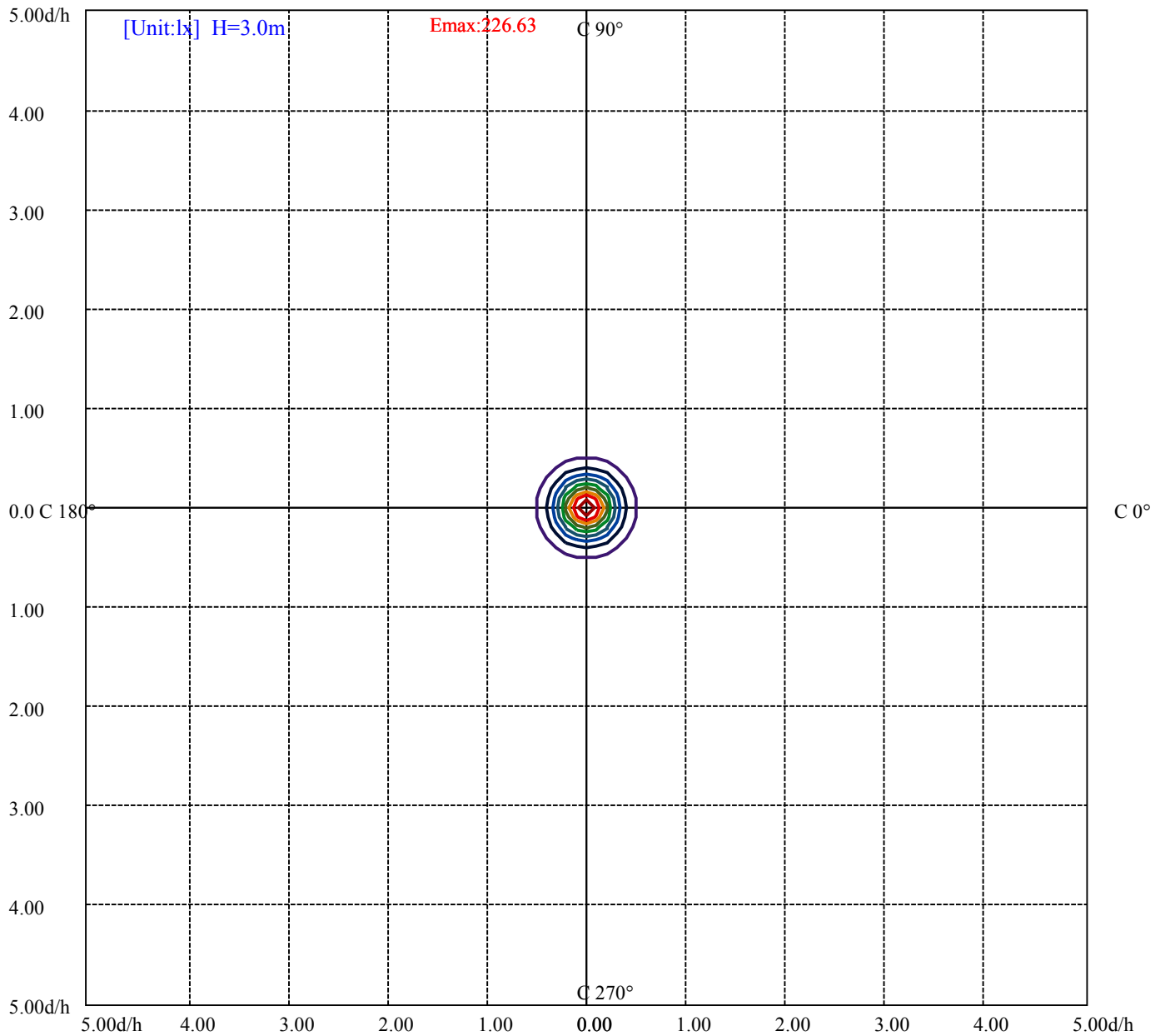
(50%Imax) 1019.81

(60%Imax) 1223.77

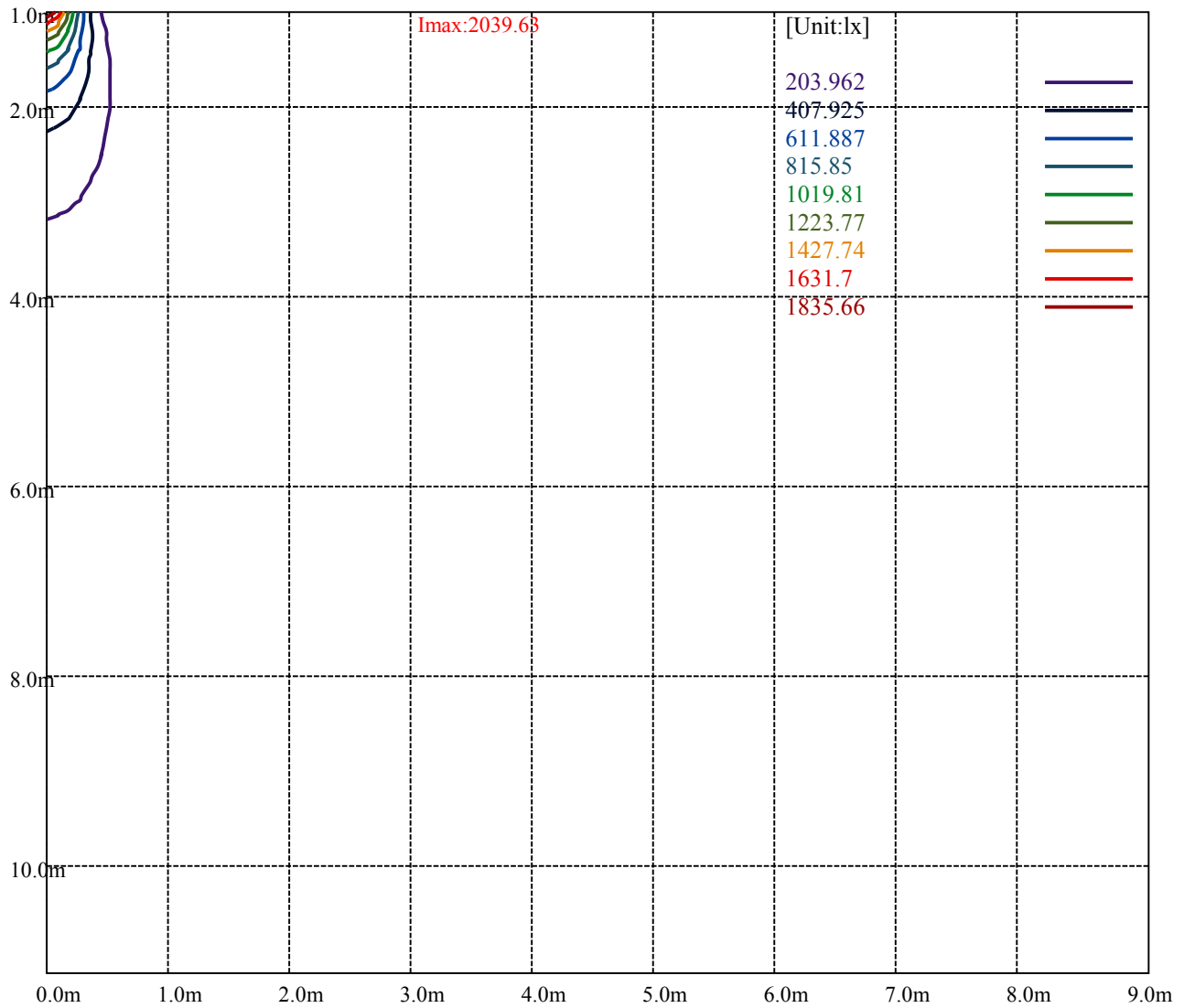
(70%Imax) 1427.74

(80%Imax) 1631.7

(90%Imax) 1835.66



(10%E _{max}) 22.66245	—
(20%E _{max}) 45.32489	—
(30%E _{max}) 67.98734	—
(40%E _{max}) 90.64978	—
(50%E _{max}) 113.3122	—
(60%E _{max}) 135.9744	—
(70%E _{max}) 158.6367	—
(80%E _{max}) 181.3	—
(90%E _{max}) 203.9622	—



Luminance Table

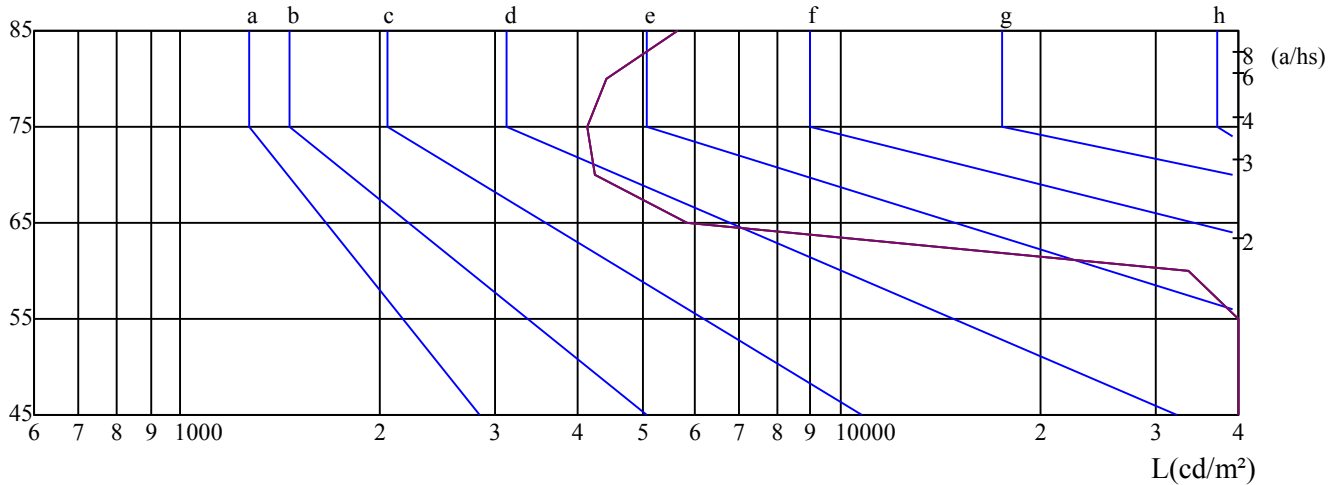
γ	45	50	55	60	65	70	75	80	85
C0	46650	52836	53885	33658	5848	4245	4131	4405	5640
C45	46650	52836	53885	33658	5848	4245	4131	4405	5640
C90	46650	52836	53885	33658	5848	4245	4131	4405	5640

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

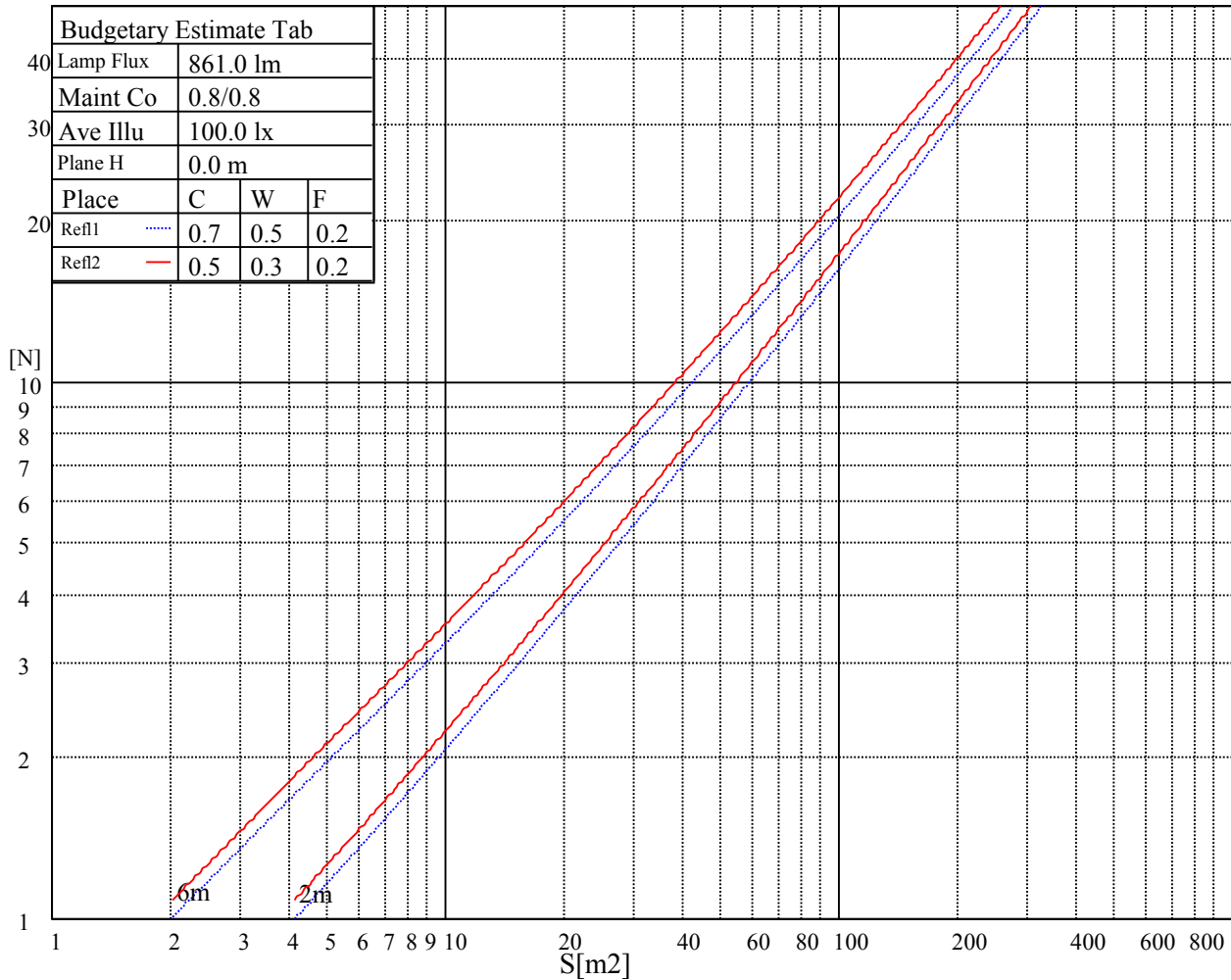
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

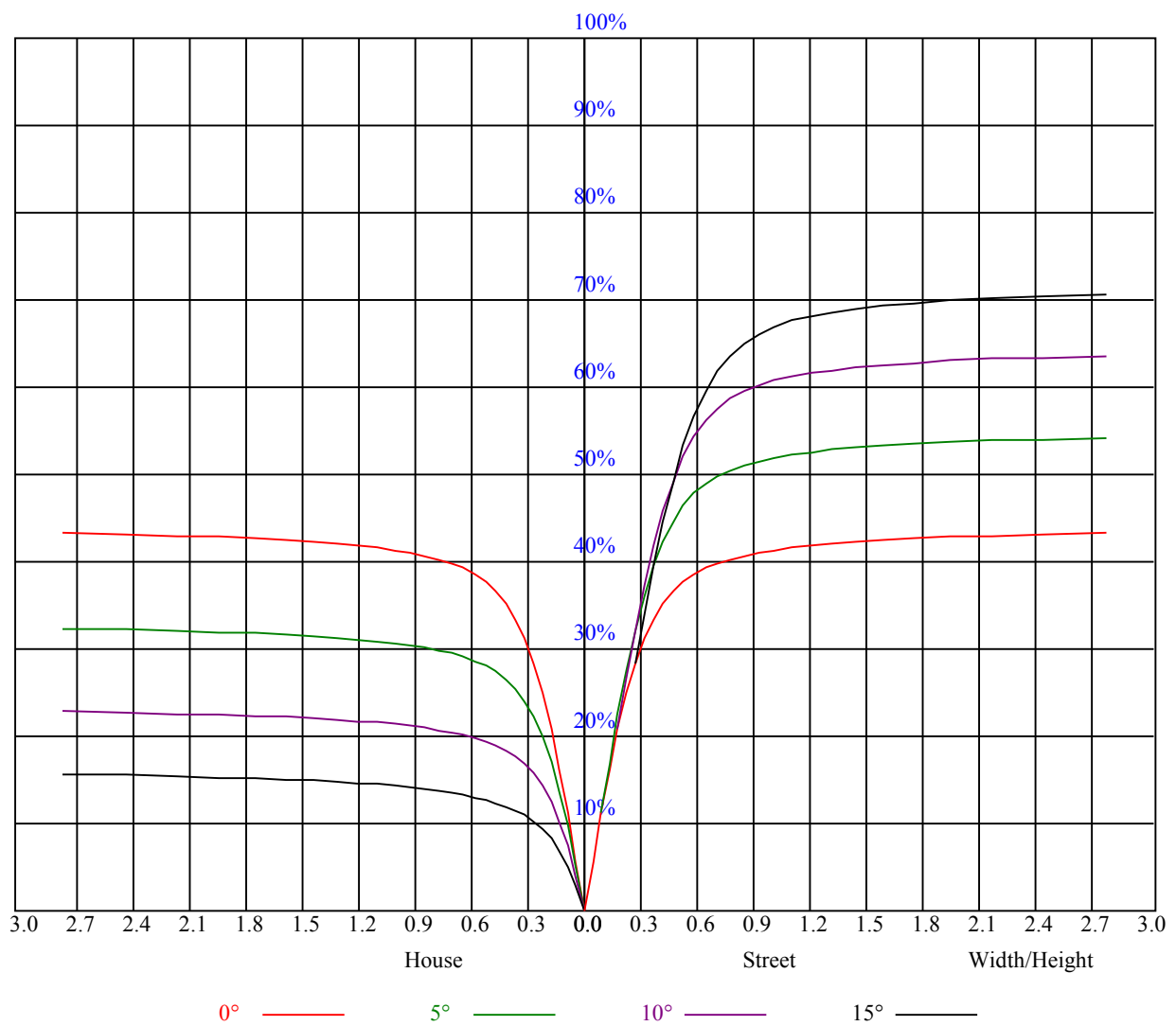
C0 ———

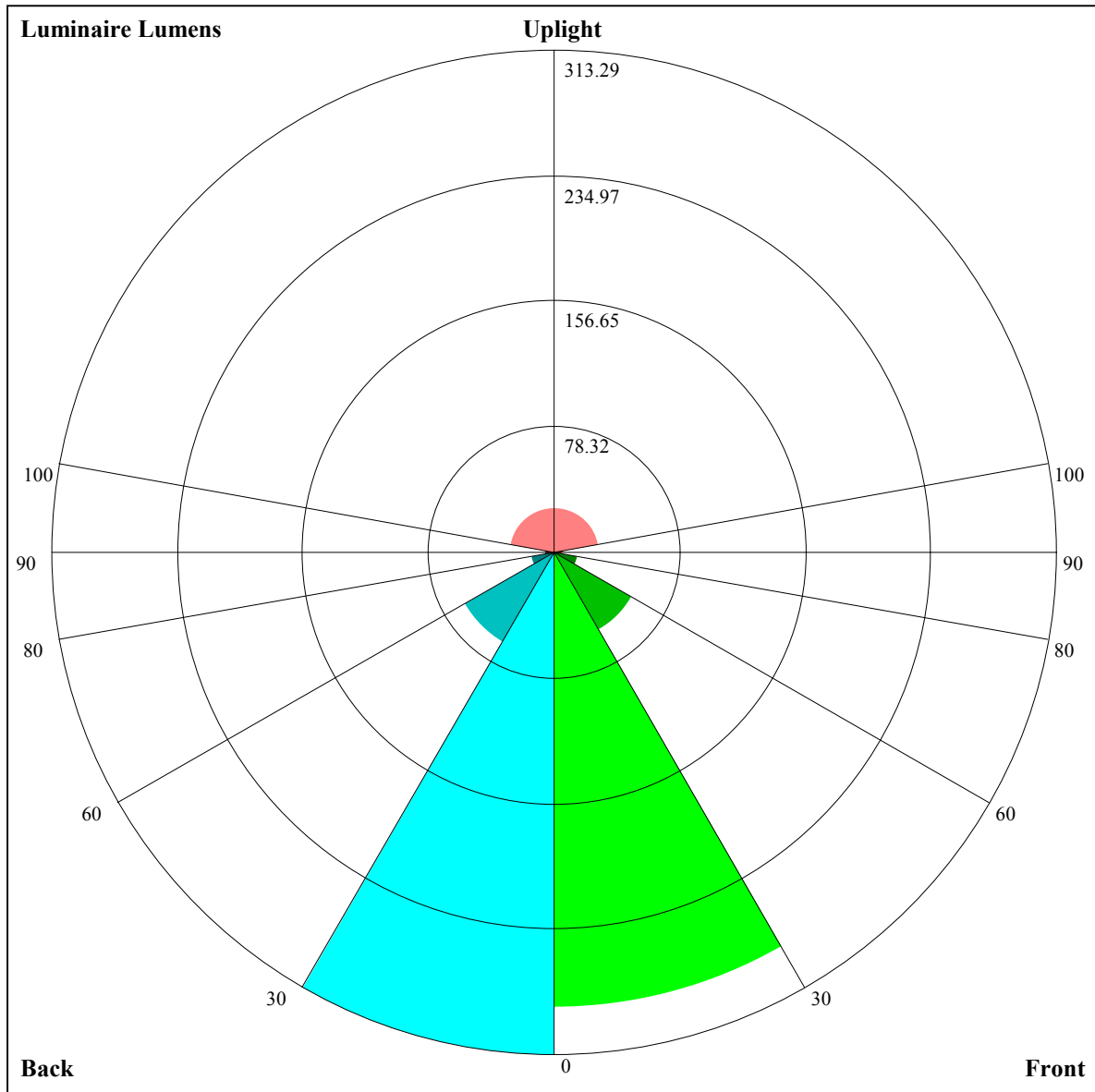
C45 ———

C90 ———



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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.98	0.96	0.94	0.96	0.94	0.92	0.93	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83
2	0.92	0.88	0.85	0.90	0.87	0.84	0.87	0.84	0.82	0.85	0.82	0.80	0.82	0.80	0.79	0.77
3	0.86	0.82	0.78	0.85	0.81	0.78	0.82	0.79	0.76	0.80	0.78	0.75	0.78	0.76	0.74	0.73
4	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.77	0.73	0.71	0.75	0.72	0.70	0.69
5	0.77	0.72	0.68	0.76	0.72	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.66	0.65
6	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
7	0.70	0.65	0.61	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
8	0.67	0.62	0.59	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57
9	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.55	0.54
10	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52





Luminaire Lumens:

FL=284.17,FM=55.94,FH=14.64,FVH=5.37

BL=313.29,BM=65.18,BH=15.48,BVH=5.83

UL=5.82,UH=27.71

BUG Rating:B1-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	2044.13	1793.25	1413.56	891.56	520.31	303.75	133.48	70.88	46.80
45.0	2048.06	1780.88	1328.06	843.19	495.56	291.38	145.18	82.07	55.07
90.0	2030.06	1729.13	1116.51	804.49	487.63	266.34	143.94	89.89	57.77
135.0	2036.25	1888.31	1496.81	1031.06	636.75	357.75	201.66	113.85	73.69
180.0	2044.13	1924.31	1539.56	1058.29	651.54	365.68	195.02	101.64	62.66
225.0	2048.06	1999.69	1633.50	1097.21	723.54	389.48	212.12	108.79	61.88
270.0	2030.06	2017.13	1692.00	1221.19	757.69	407.81	204.36	111.38	65.53
315.0	2036.25	1872.56	1453.50	950.29	570.15	287.66	144.17	73.86	49.78
360.0	2044.13	1793.25	1413.56	891.56	520.31	303.75	133.48	70.88	46.80
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	37.29	31.78	25.82	20.59	16.82	14.18	12.43	12.15	10.52
45.0	39.99	31.28	24.19	16.88	14.23	12.15	11.03	11.03	9.73
90.0	39.09	29.31	21.54	16.71	14.51	13.05	12.66	13.28	10.13
135.0	51.24	39.26	28.46	21.38	17.21	14.68	11.98	10.63	10.91
180.0	45.28	36.79	28.91	23.57	18.56	15.41	13.05	11.64	11.19
225.0	40.95	32.51	25.37	21.21	19.41	16.99	13.22	11.64	13.05
270.0	39.54	29.76	25.14	19.18	16.03	14.12	11.81	13.11	15.86
315.0	37.24	31.56	27.00	22.78	19.13	14.79	11.76	11.31	10.69
360.0	37.29	31.78	25.82	20.59	16.82	14.18	12.43	12.15	10.52
C/γ(°)	90.0								
0.0	3.60								
45.0	3.71								
90.0	4.50								
135.0	6.75								
180.0	6.75								
225.0	6.81								
270.0	6.30								
315.0	4.28								
360.0	3.60								