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Nata

Client:

LumCAT: 3-2035-M

Luminaire: 92.70.131.00

Report No:

Voltage(V): 34.3900

Test No: GC20190824010

Current(A): 0.3970

LampCAT: TRIDONIC SLE 13MM G7

Power (W): 13.6500

Lamp flux(lm): 1702.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 78

Width(mm): 78

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1425.50, Efficiency(%): 83.75% , Luminous Efficacy(lm/W): 104.43

Central intensity(cd): 2400.047, Maximum intensity(cd): 2400.047

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=43.0

[C90/270]Total=43.0

Field angle(10%Imax): [C0/180]Total=74.2

[C90/270]Total=74.2

Maximum s/h(1/2): C0_180=0.69 C90_270=0.69

Maximum s/h(1/4): C0_180=0.72 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.75%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.457%

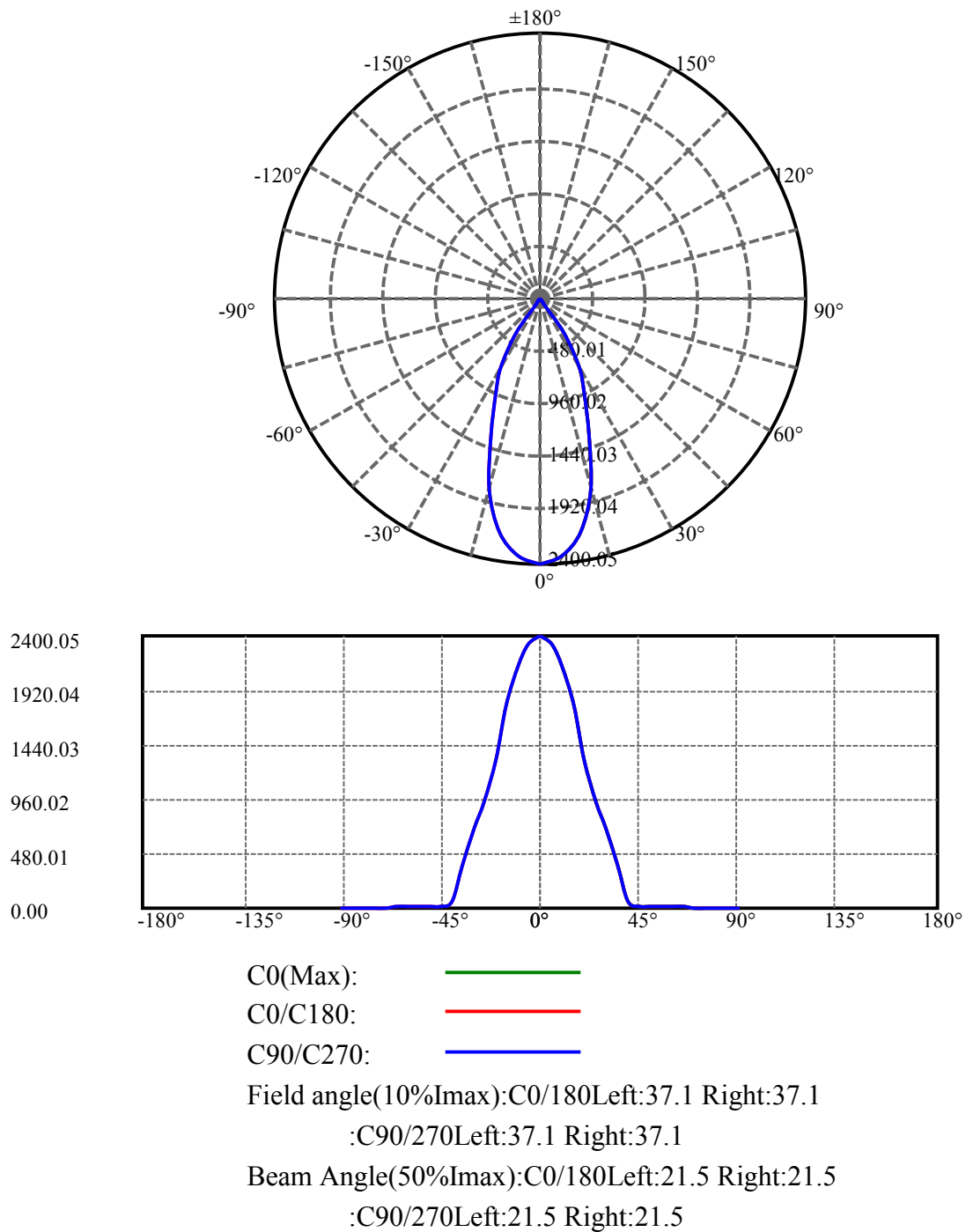
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2400.047	0.000	0	.000%	.000%
5.0	2326.852	56.509	56.509	3.320%	3.964%
10.0	2135.672	159.639	216.147	9.379%	15.163%
15.0	1789.242	232.823	448.971	13.679%	31.496%
20.0	1313.191	255.684	704.655	15.023%	49.432%
25.0	935.993	235.898	940.553	13.860%	65.980%
30.0	701.895	207.276	1147.829	12.178%	80.521%
35.0	379.153	159.192	1307.02	9.353%	91.688%
40.0	52.917	72.088	1379.108	4.235%	96.745%
45.0	12.410	12.096	1391.204	.711%	97.594%
50.0	9.710	4.470	1395.674	.263%	97.908%
55.0	8.641	3.990	1399.664	.234%	98.187%
60.0	7.988	3.844	1403.508	.226%	98.457%
65.0	7.502	3.766	1407.273	.221%	98.721%
70.0	7.130	3.705	1410.978	.218%	98.981%
75.0	6.884	3.663	1414.641	.215%	99.238%
80.0	6.715	3.639	1418.28	.214%	99.493%
85.0	6.602	3.619	1421.898	.213%	99.747%
90.0	6.560	3.604	1425.502	.212%	100.000%

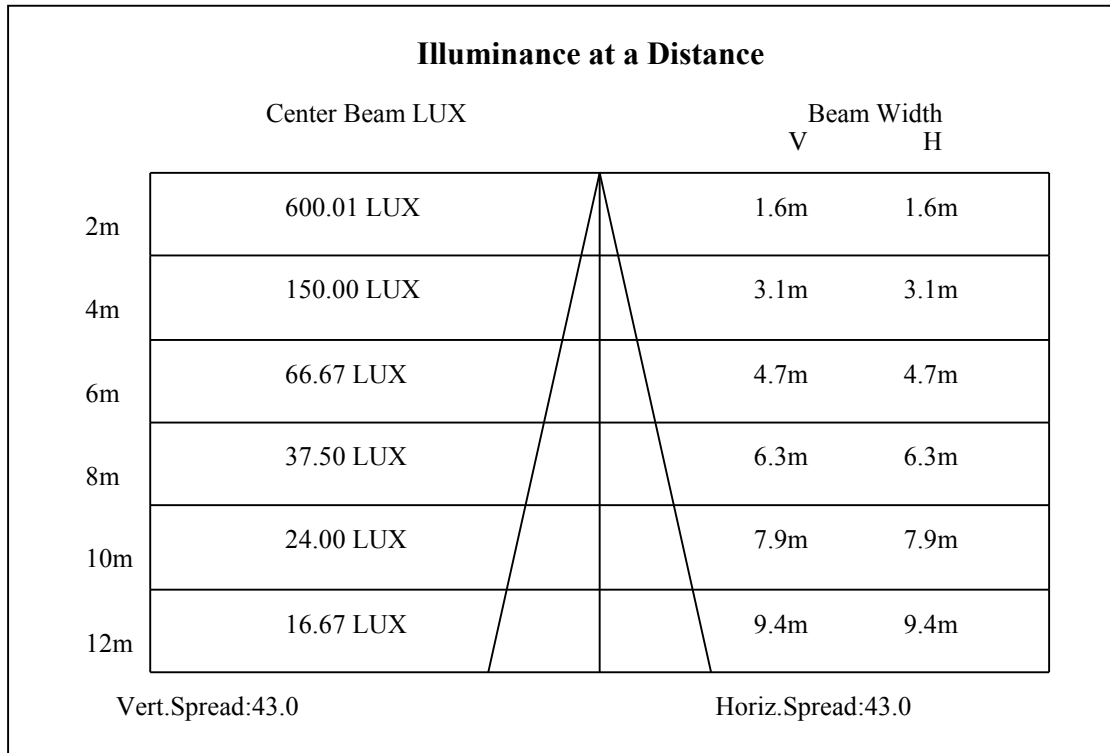
ZONAL LUMEN SUMMARY

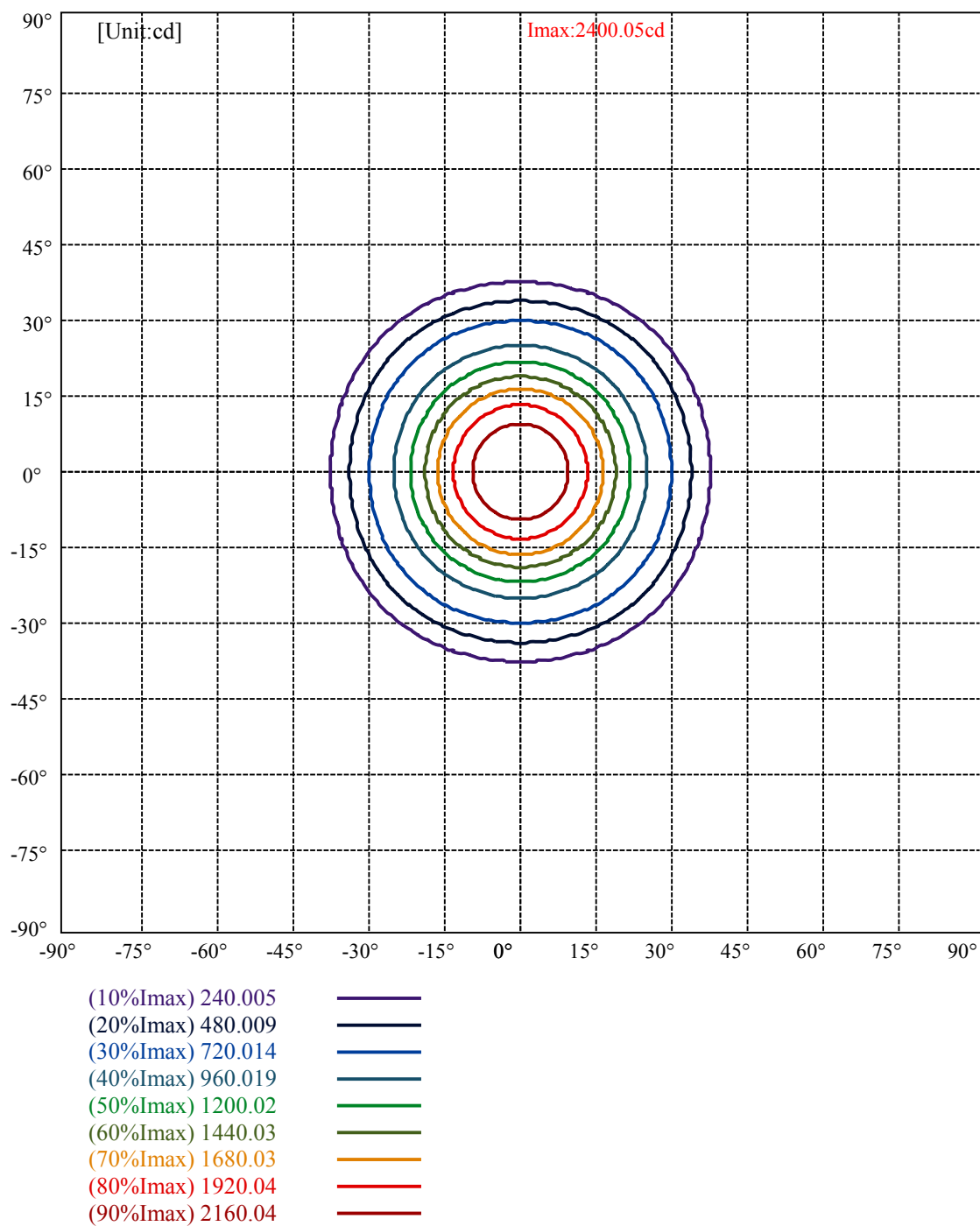
Zone	Lumens	%Lamp	%Fixt
0-30	1147.83	67.44%	80.52%
0-40	1379.11	81.03%	96.75%
0-60	1403.51	82.46%	98.46%
0-90	1421.90	83.54%	99.75%
0-120	1421.90	83.54%	99.75%
0-180	1425.50	83.75%	100.00%
60-90	22.23	1.31%	1.56%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.82	1140.40	67.00%	80.00%

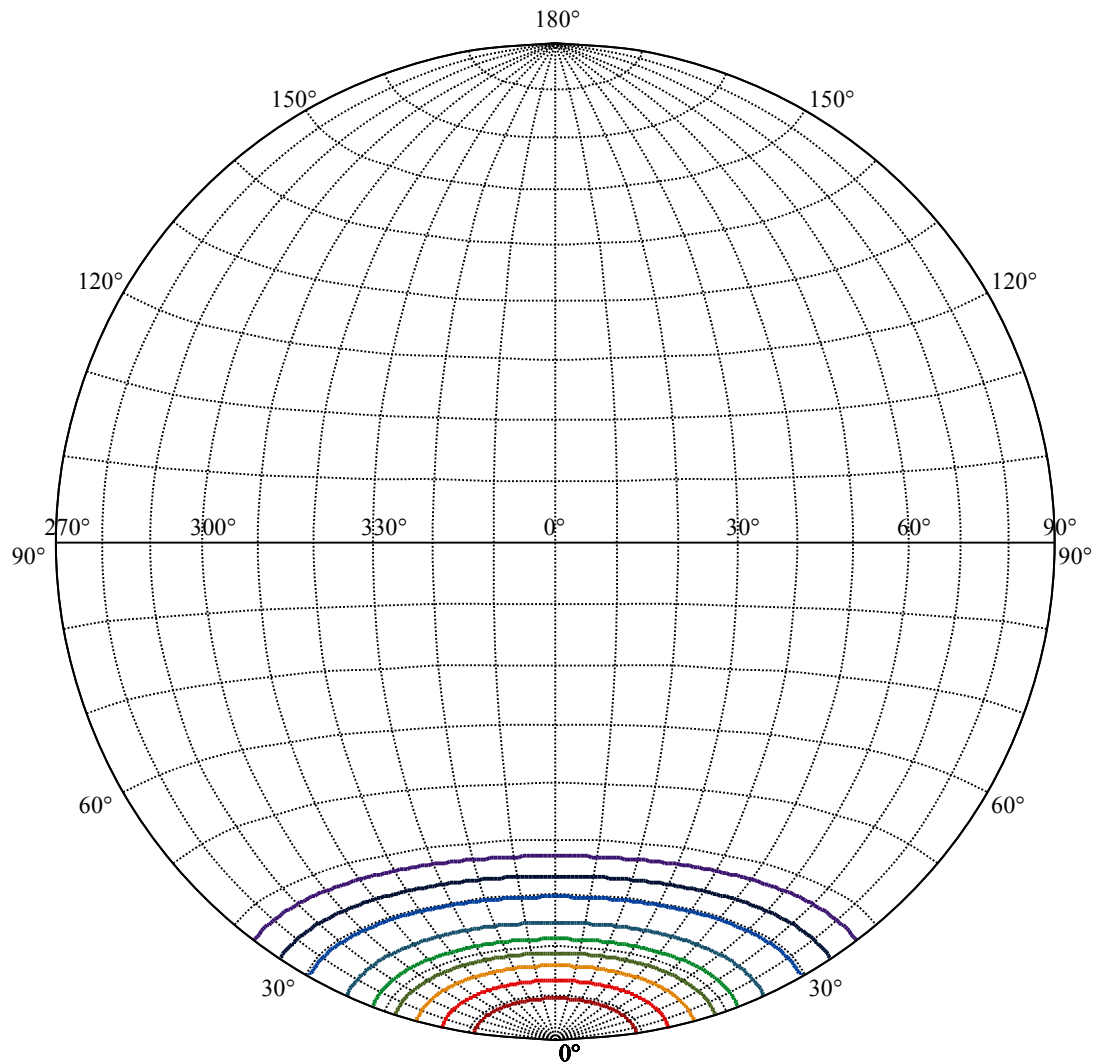
ZONAL LUMEN SUMMARY

0-10	216.15
10-20	488.51
20-30	443.17
30-40	231.28
40-50	16.57
50-60	7.83
60-70	7.47
70-80	7.30
80-90	3.62
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









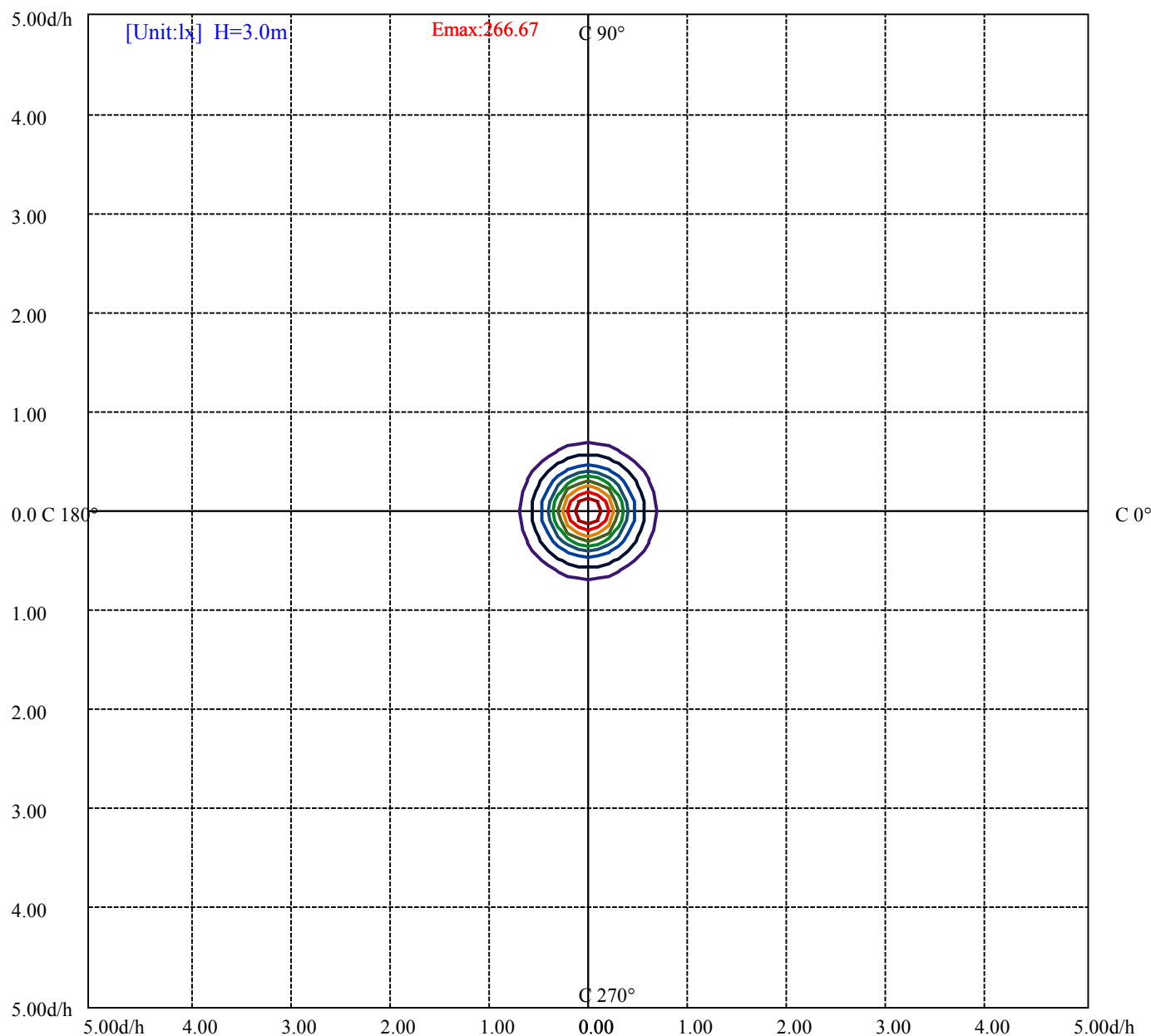
House

[Unit:cd]

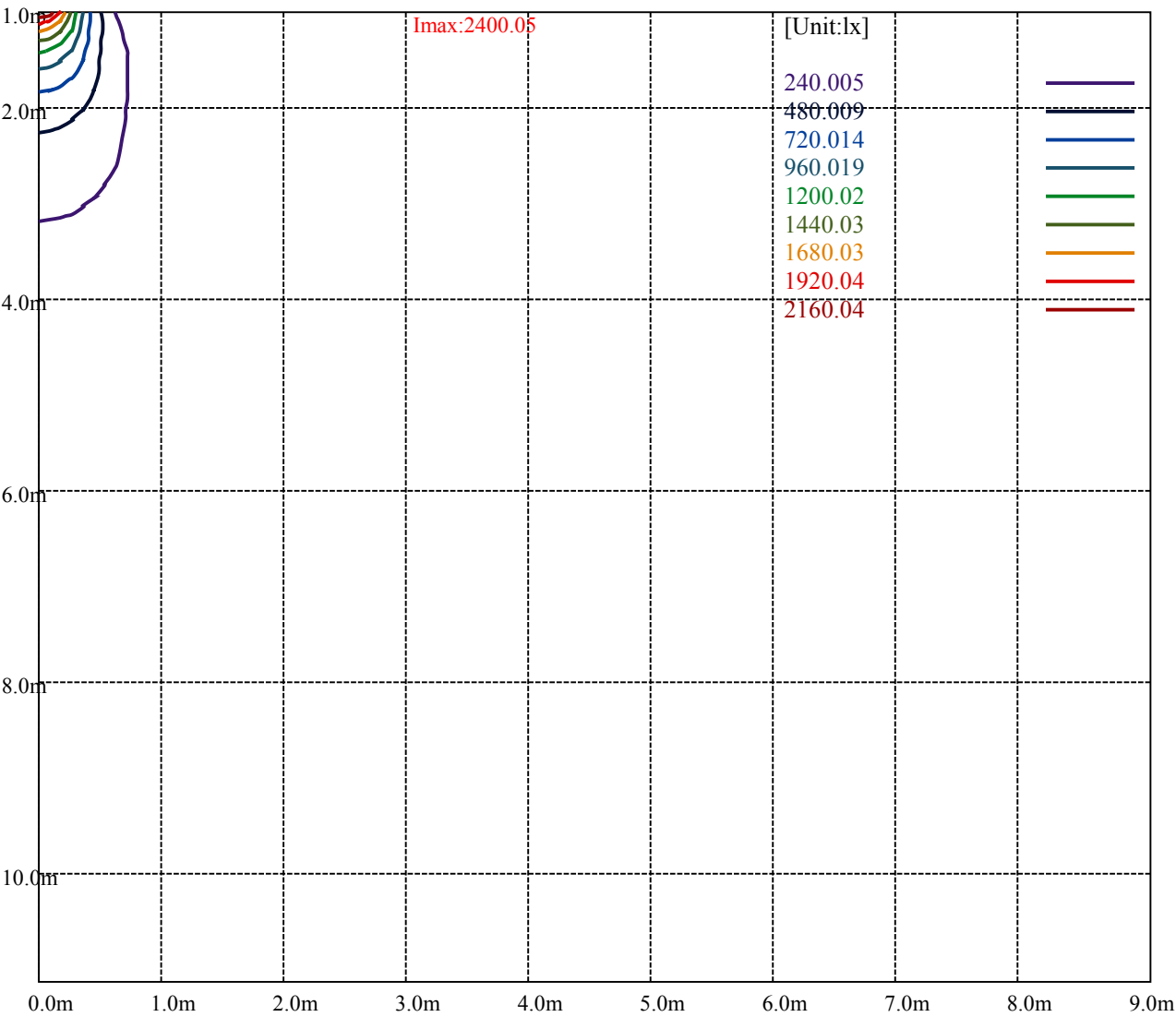
Road

Imax:2400.05

(10%Imax)	240.005	—
(20%Imax)	480.009	—
(30%Imax)	720.014	—
(40%Imax)	960.019	—
(50%Imax)	1200.02	—
(60%Imax)	1440.03	—
(70%Imax)	1680.03	—
(80%Imax)	1920.04	—
(90%Imax)	2160.04	—



(10%Emax)	26.66711	—
(20%Emax)	53.33434	—
(30%Emax)	80.00144	—
(40%Emax)	106.6687	—
(50%Emax)	133.3356	—
(60%Emax)	160.0033	—
(70%Emax)	186.67	—
(80%Emax)	213.3378	—
(90%Emax)	240.0045	—



Luminance Table

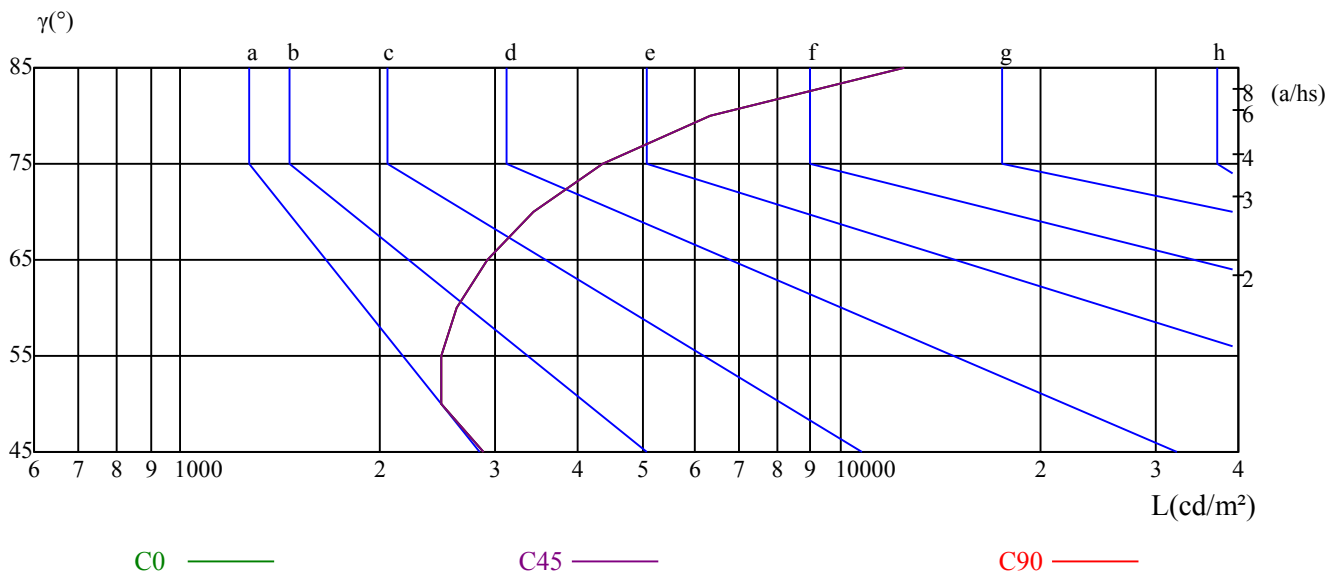
γ	45	50	55	60	65	70	75	80	85
C0	2885	2483	2476	2626	2918	3426	4371	6356	12451
C45	2885	2483	2476	2626	2918	3426	4371	6356	12451
C90	2885	2483	2476	2626	2918	3426	4371	6356	12451

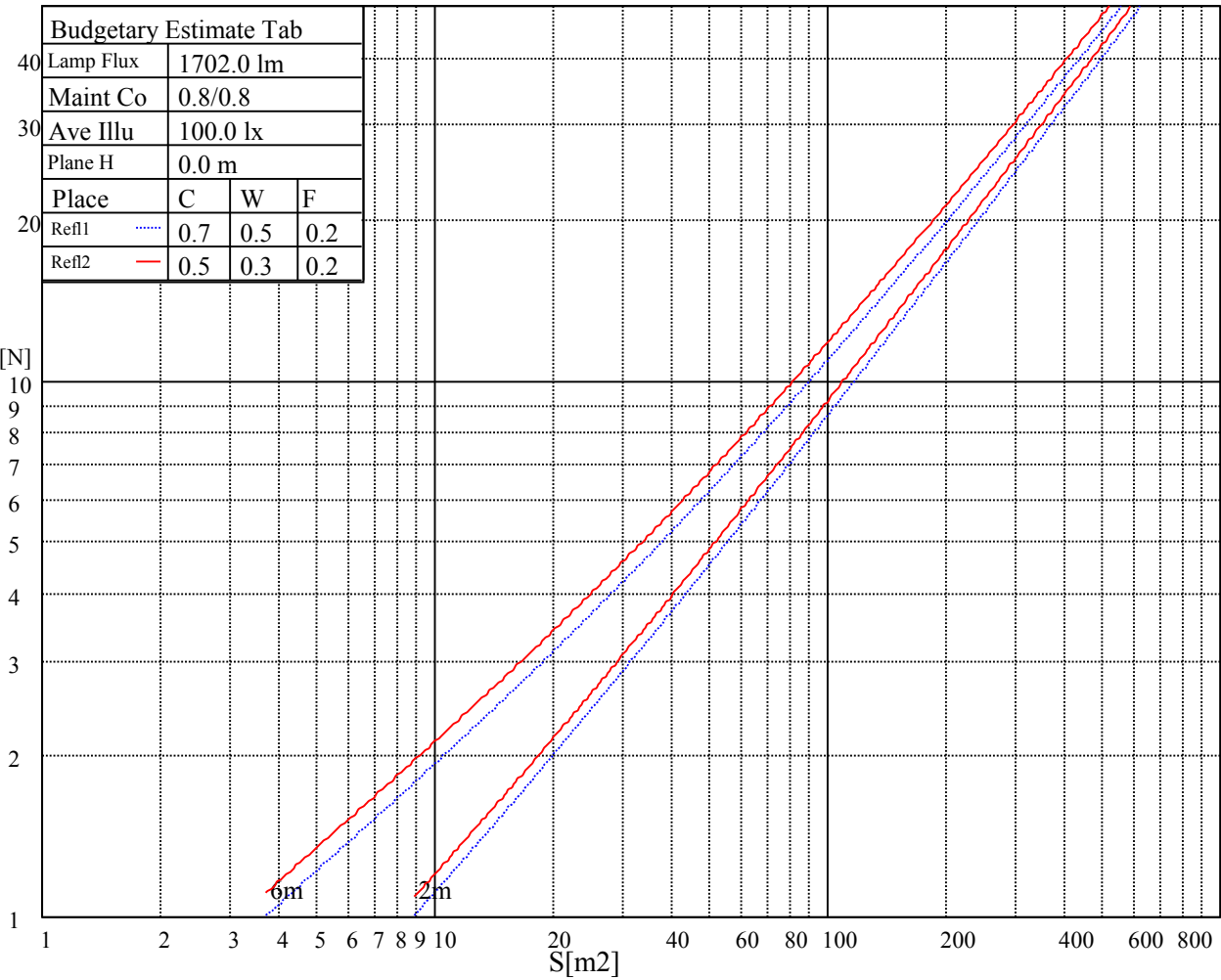
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2918	2918	2918	4371	4371	4371	12451	12451	12451

Glare Table

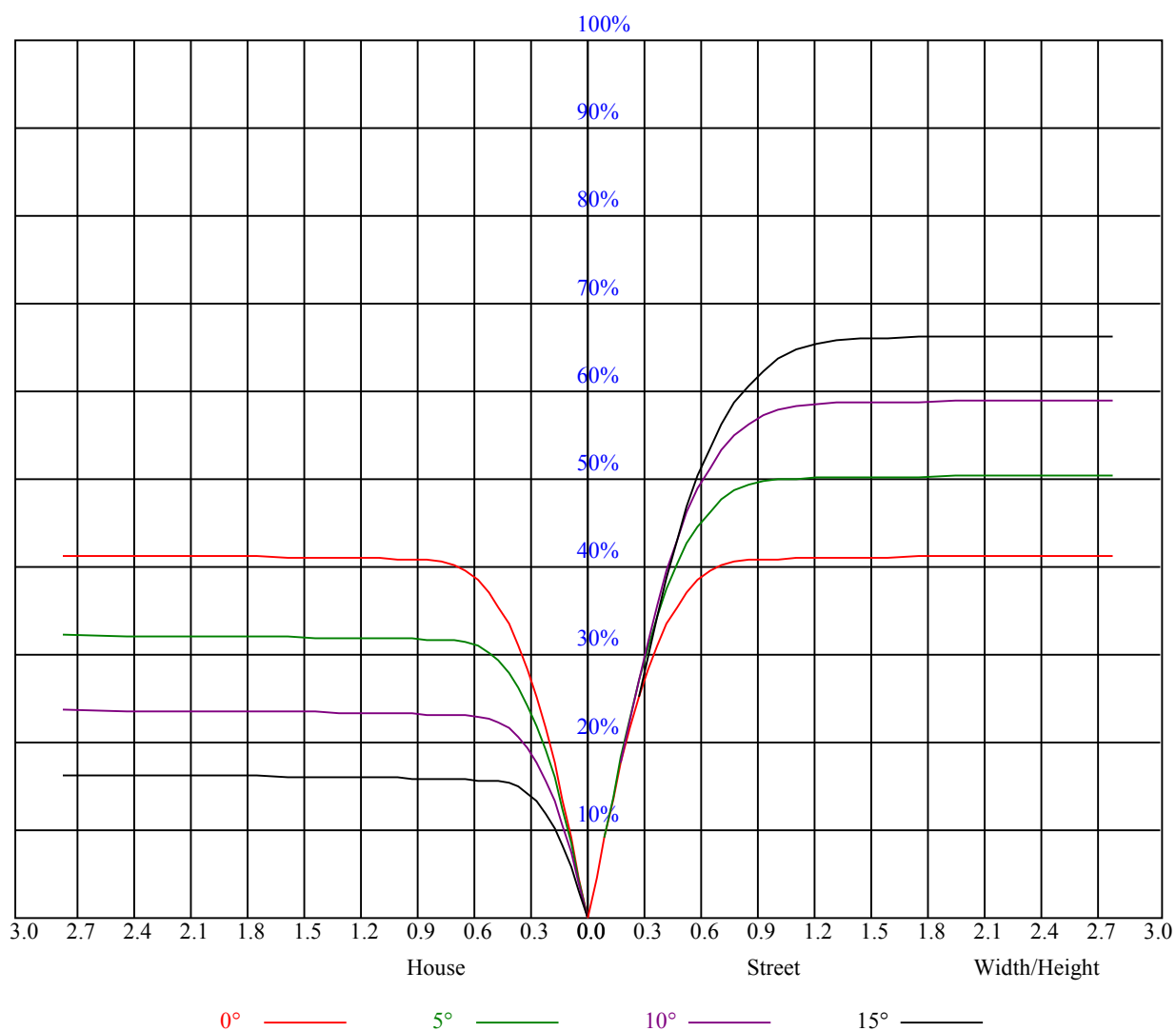
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

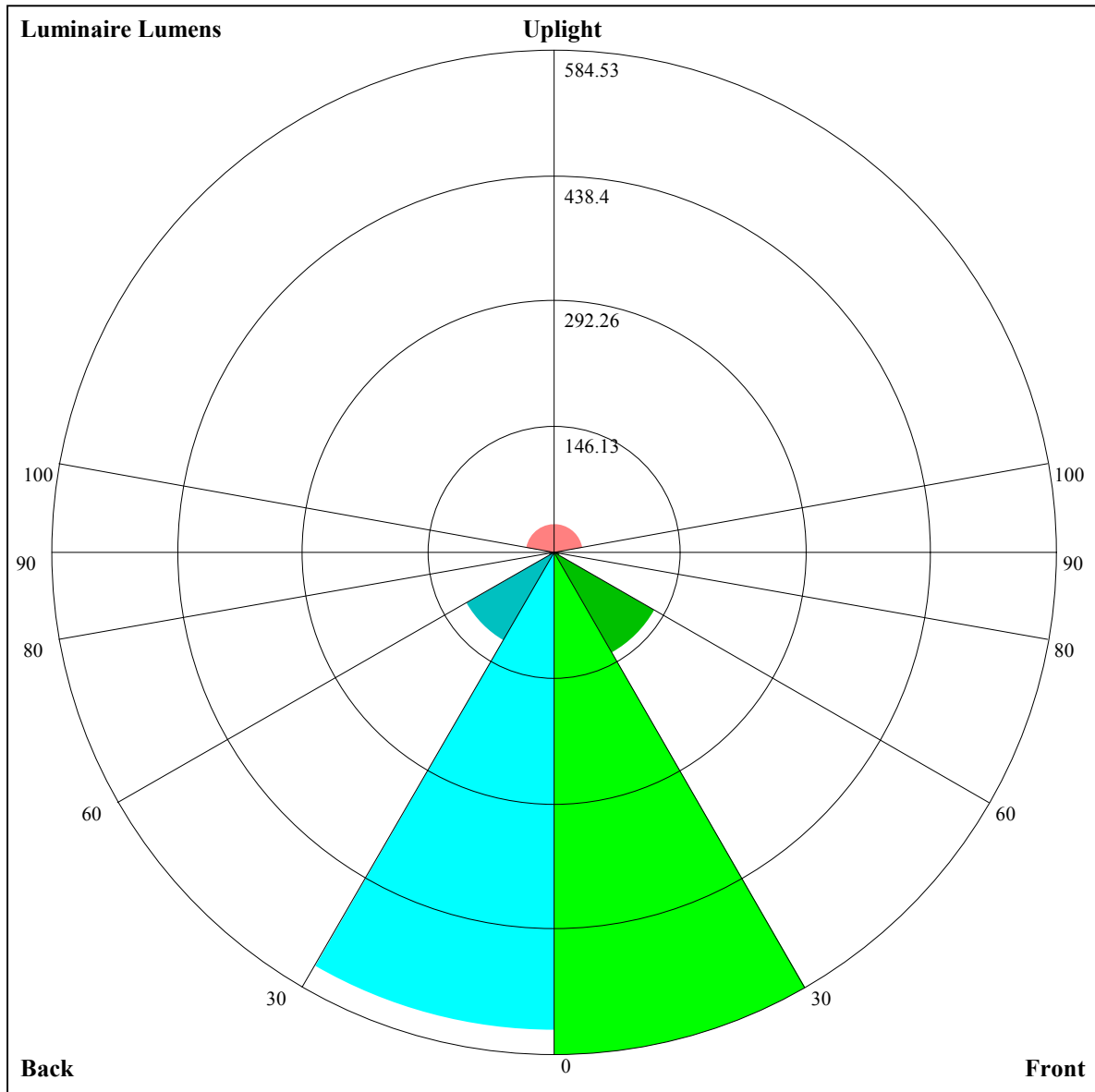
Luminance Limiting Curve





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	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.84
1	0.93	0.91	0.89	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.87	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.78	0.77	0.75	0.74
3	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.62	0.58	0.55	0.62	0.58	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
9	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.51	0.57	0.54	0.51	0.50
10	0.57	0.52	0.49	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.49	0.48





Luminaire Lumens:

FL=584.53,FM=134.55,FH=7.39,FVH=3.61

BL=557.63,BM=118.11,BH=7.37,BVH=3.61

UL=7.16,UH=34.06

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	2404.13	2341.13	2197.13	1873.69	1458.56	1002.38	738.56	464.63	92.42		
45.0	2394.56	2354.06	2210.63	1887.19	1497.94	1016.44	748.69	470.25	111.60		
90.0	2397.38	2320.88	2130.19	1759.50	1338.75	926.78	689.63	367.93	38.14		
135.0	2404.13	2327.63	2160.56	1814.63	1378.69	949.50	722.25	405.56	52.31		
180.0	2404.13	2304.56	2080.69	1715.63	1107.96	847.29	653.63	303.08	24.75		
225.0	2394.56	2302.88	2052.56	1688.06	1116.45	858.32	655.31	277.54	23.63		
270.0	2397.38	2340.56	2136.94	1810.13	1370.81	950.63	714.94	399.94	45.51		
315.0	2404.13	2323.13	2116.69	1765.13	1236.38	936.62	692.16	344.31	34.99		
360.0	2404.13	2341.13	2197.13	1873.69	1458.56	1002.38	738.56	464.63	92.42		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	13.84	9.90	8.78	8.04	7.54	7.20	6.92	6.75	6.64		
45.0	14.12	9.96	8.83	8.16	7.59	7.20	6.92	6.75	6.64		
90.0	11.70	9.62	8.55	7.93	7.43	7.09	6.86	6.64	6.58		
135.0	12.66	9.68	8.66	8.04	7.54	7.14	6.86	6.69	6.58		
180.0	11.19	9.51	8.49	7.93	7.48	7.14	6.92	6.75	6.64		
225.0	11.31	9.56	8.55	7.88	7.48	7.09	6.86	6.69	6.58		
270.0	12.71	9.90	8.72	7.99	7.54	7.14	6.86	6.75	6.58		
315.0	11.76	9.56	8.55	7.93	7.43	7.03	6.86	6.69	6.58		
360.0	13.84	9.90	8.78	8.04	7.54	7.20	6.92	6.75	6.64		
C/γ(°)	90.0										
0.0	6.58										
45.0	6.58										
90.0	6.53										
135.0	6.58										
180.0	6.53										
225.0	6.58										
270.0	6.53										
315.0	6.58										
360.0	6.58										