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Nata

LumCAT: 1687-M
Luminaire: 92.70.125.00
Report No: NT2017110102
Test No: GC2017110102
LampCAT: NICHIA NVNWS007Z-V1
Lamp flux(lm): 810.0
Number of Lamps: 1
Length(mm): 46
Phm Type: C

Voltage(V): 19.9000
Current(A): 0.3000
Power (W): 5.9700
PF: 0.0000
Ballast type: DC
Width(mm): 46
Height(mm): 0

Photometric Results

Lumens(lm): 742.94
Efficiency(%): 91.72%
Lumens(lm)/Power(W): 124.44
Central intensity(cd): 753.419
Maximum intensity(cd): 753.419
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=62.0
 [C90/270]Total=62.0
Field angle(10%Imax): [C0/180]Total=90.7
 [C90/270]Total=90.7
Maximum s/h(1/2): C0_180=0.86 C90_270=0.86
Maximum s/h(1/4): C0_180=0.96 C90_270=0.96
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.729%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/10/9
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

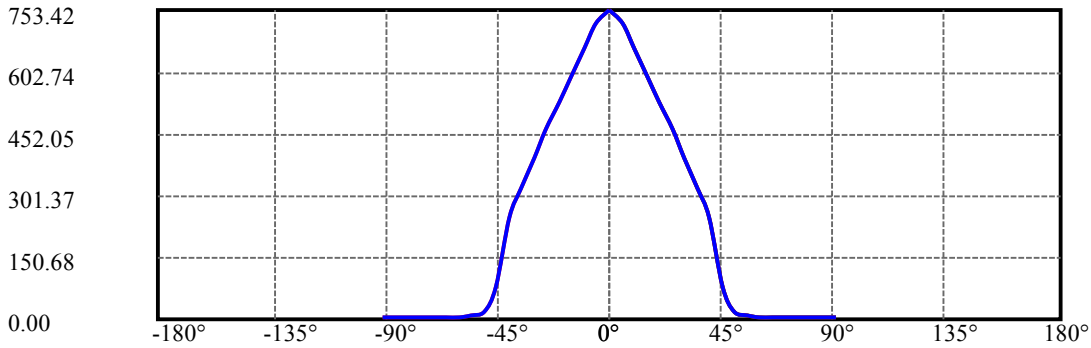
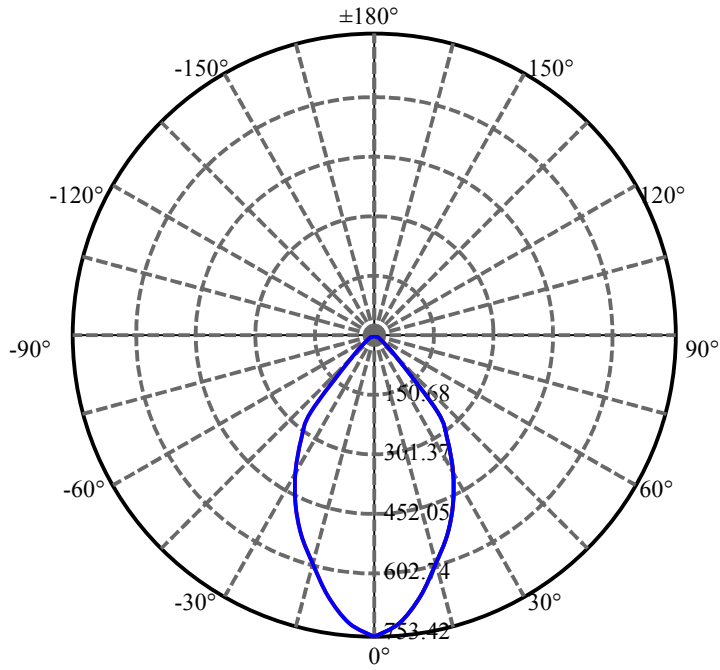
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	753.419	0.000	0	.000%	.000%
5.0	721.081	17.627	17.627	2.176%	2.373%
10.0	661.083	49.444	67.072	6.104%	9.028%
15.0	591.794	74.320	141.391	9.175%	19.031%
20.0	530.874	92.524	233.915	11.423%	31.485%
25.0	464.208	104.366	338.281	12.885%	45.533%
30.0	391.637	108.308	446.589	13.371%	60.111%
35.0	316.471	104.274	550.863	12.873%	74.147%
40.0	249.509	94.429	645.292	11.658%	86.857%
45.0	79.612	60.939	706.231	7.523%	95.059%
50.0	16.503	19.421	725.653	2.398%	97.674%
55.0	7.178	5.149	730.802	.636%	98.367%
60.0	4.473	2.693	733.495	.332%	98.729%
65.0	3.379	1.909	735.404	.236%	98.986%
70.0	2.973	1.608	737.012	.199%	99.203%
75.0	2.801	1.509	738.522	.186%	99.406%
80.0	2.705	1.473	739.995	.182%	99.604%
85.0	2.698	1.468	741.463	.181%	99.802%
90.0	2.684	1.474	742.936	.182%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	446.59	55.13%	60.11%
0-40	645.29	79.67%	86.86%
0-60	733.49	90.55%	98.73%
0-90	741.46	91.54%	99.80%
0-120	741.46	91.54%	99.80%
0-180	742.94	91.72%	100.00%
60-90	10.66	1.32%	1.43%
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%
0-37.30	594.35	73.38%	80.00%

ZONAL LUMEN SUMMARY

0-10	67.07
10-20	166.84
20-30	212.67
30-40	198.70
40-50	80.36
50-60	7.84
60-70	3.52
70-80	2.98
80-90	1.47
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



C0(Max): ———

C0/C180: ———

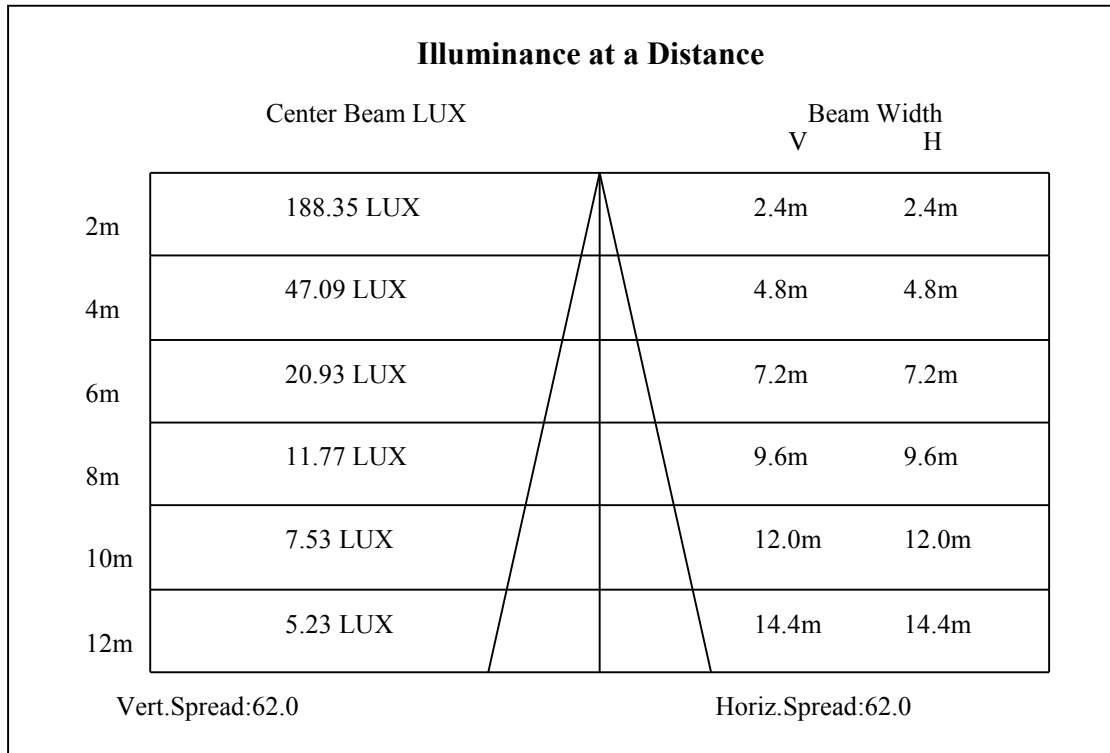
C90/C270: ———

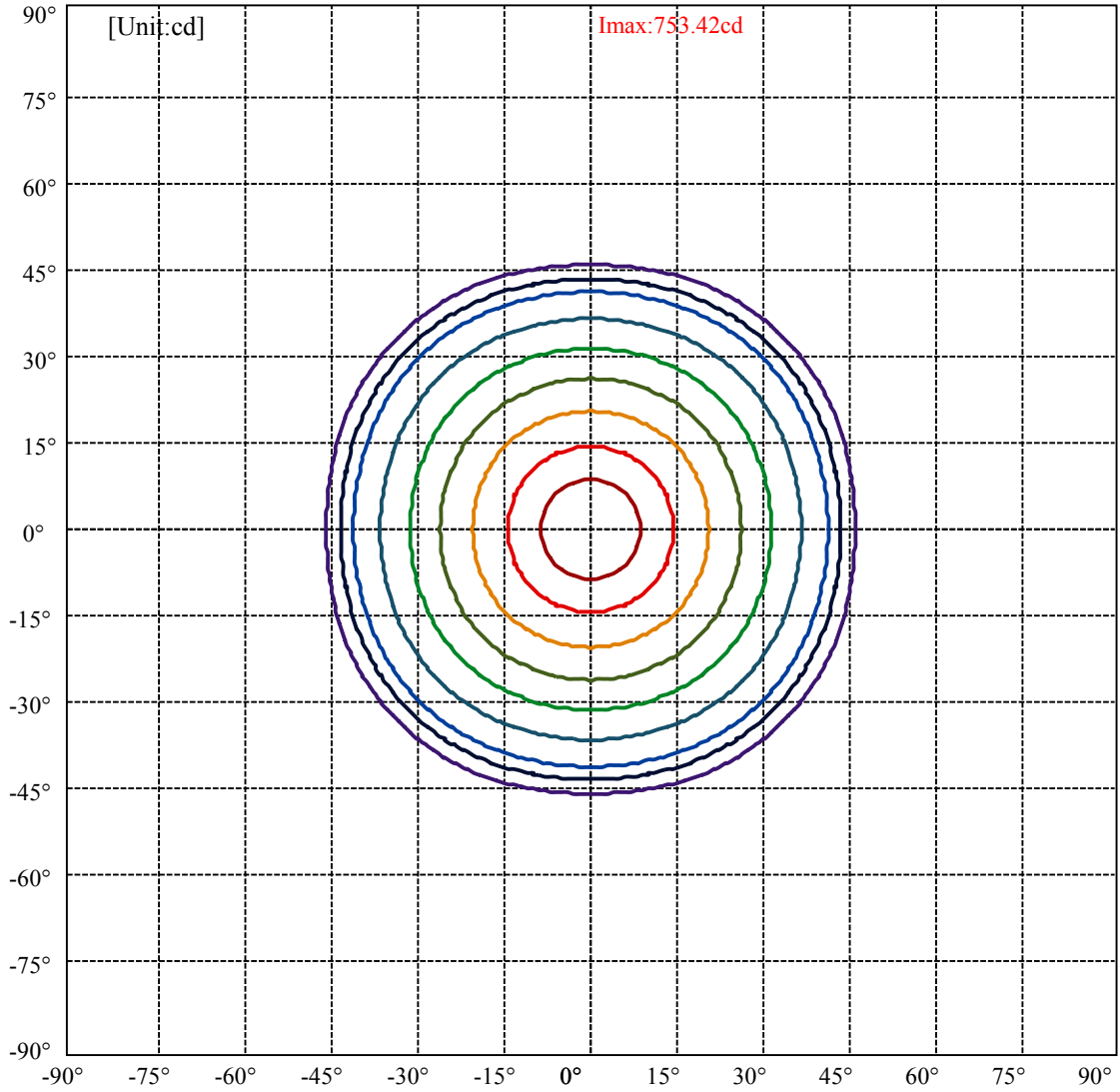
Field angle(10%Imax):C0/180Left:45.3 Right:45.3

:C90/270Left:45.3 Right:45.3

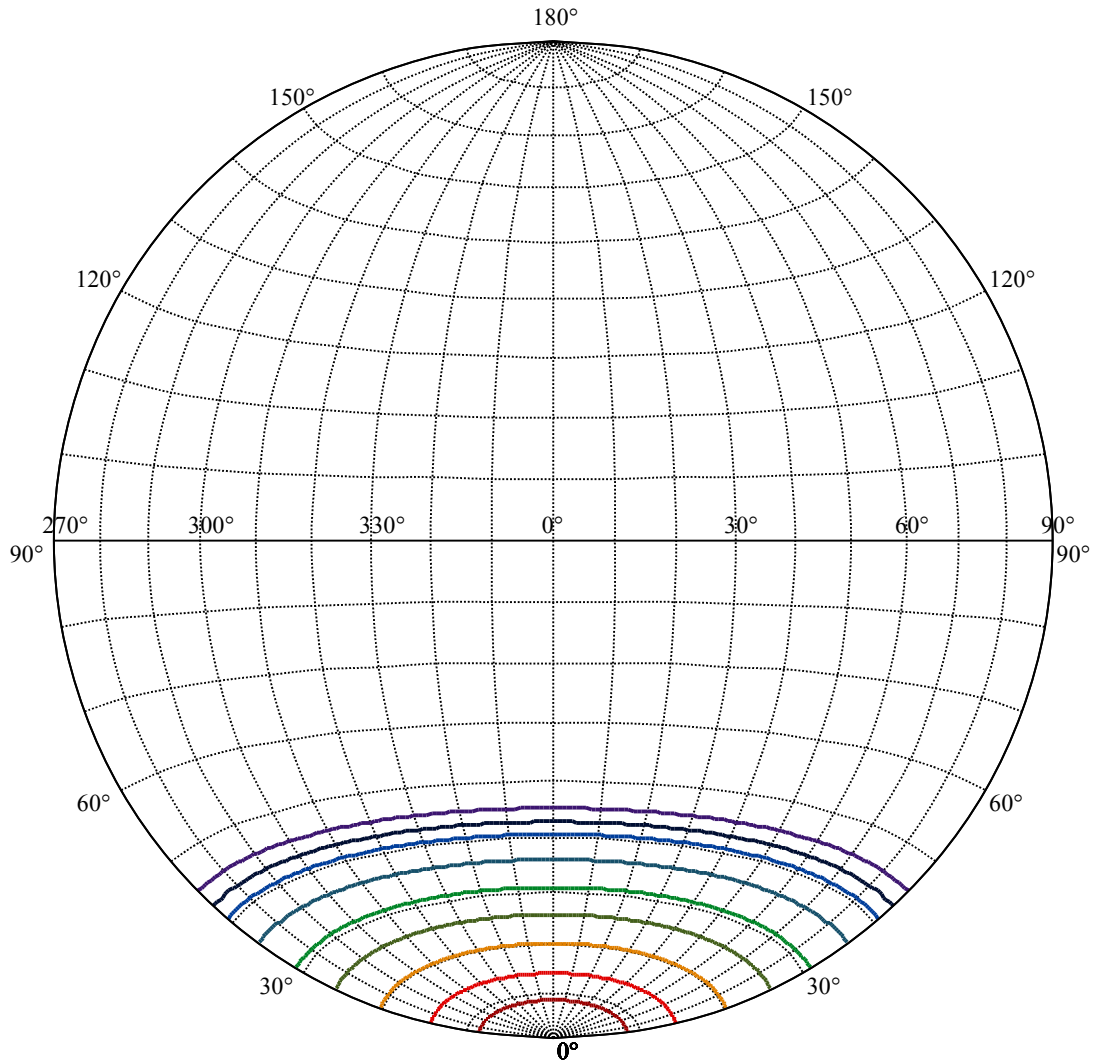
Beam Angle(50%Imax):C0/180Left:31.0 Right:31.0

:C90/270Left:31.0 Right:31.0





(10%Imax) 75.3419	—
(20%Imax) 150.684	—
(30%Imax) 226.026	—
(40%Imax) 301.368	—
(50%Imax) 376.71	—
(60%Imax) 452.052	—
(70%Imax) 527.393	—
(80%Imax) 602.735	—
(90%Imax) 678.077	—



House

[Unit:cd]

Road

Imax:753.42

(10%Imax) 75.3419

(20%Imax) 150.684

(30%Imax) 226.026

(40%Imax) 301.368

(50%Imax) 376.71

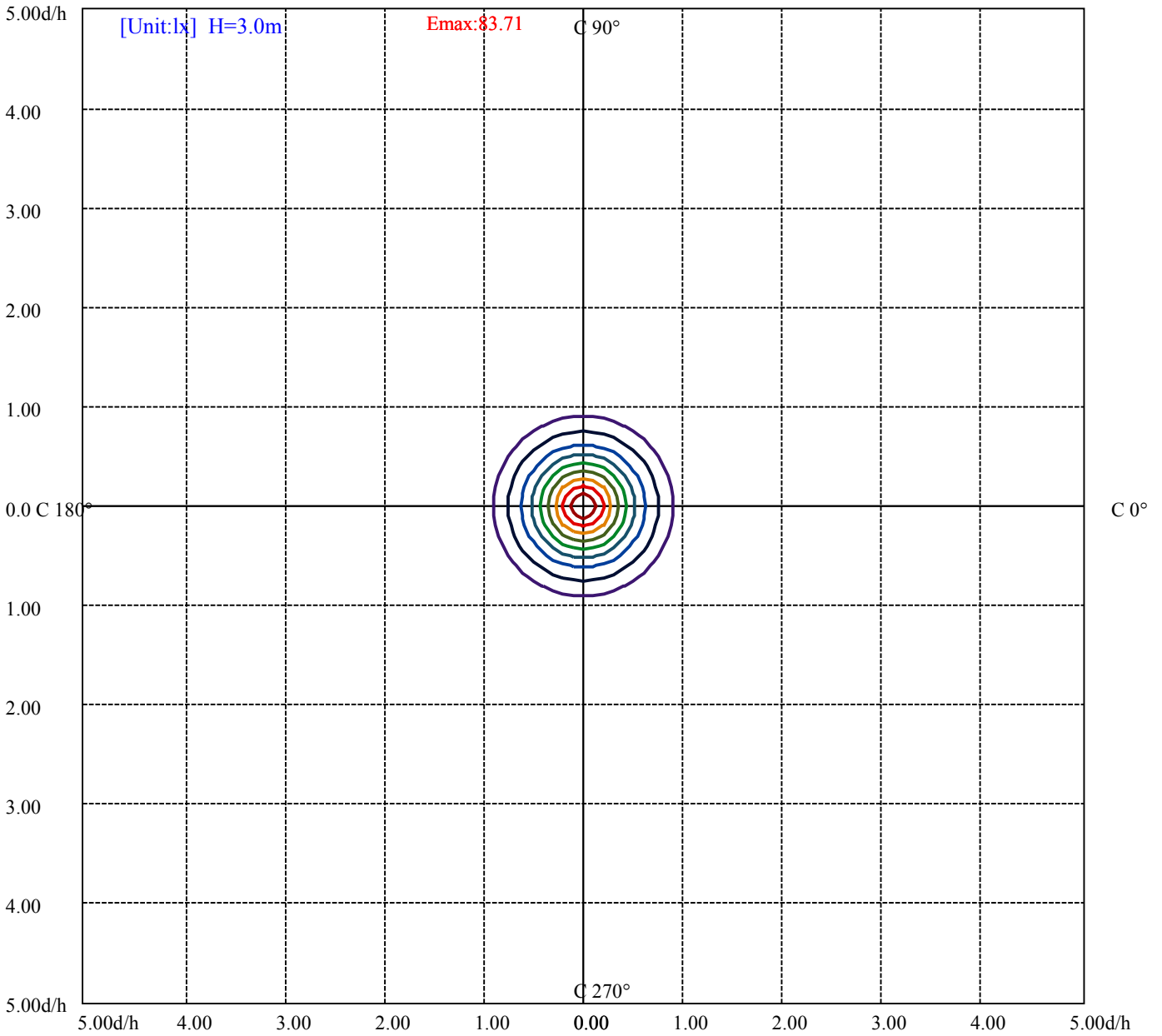
(60%Imax) 452.052

(70%Imax) 527.393

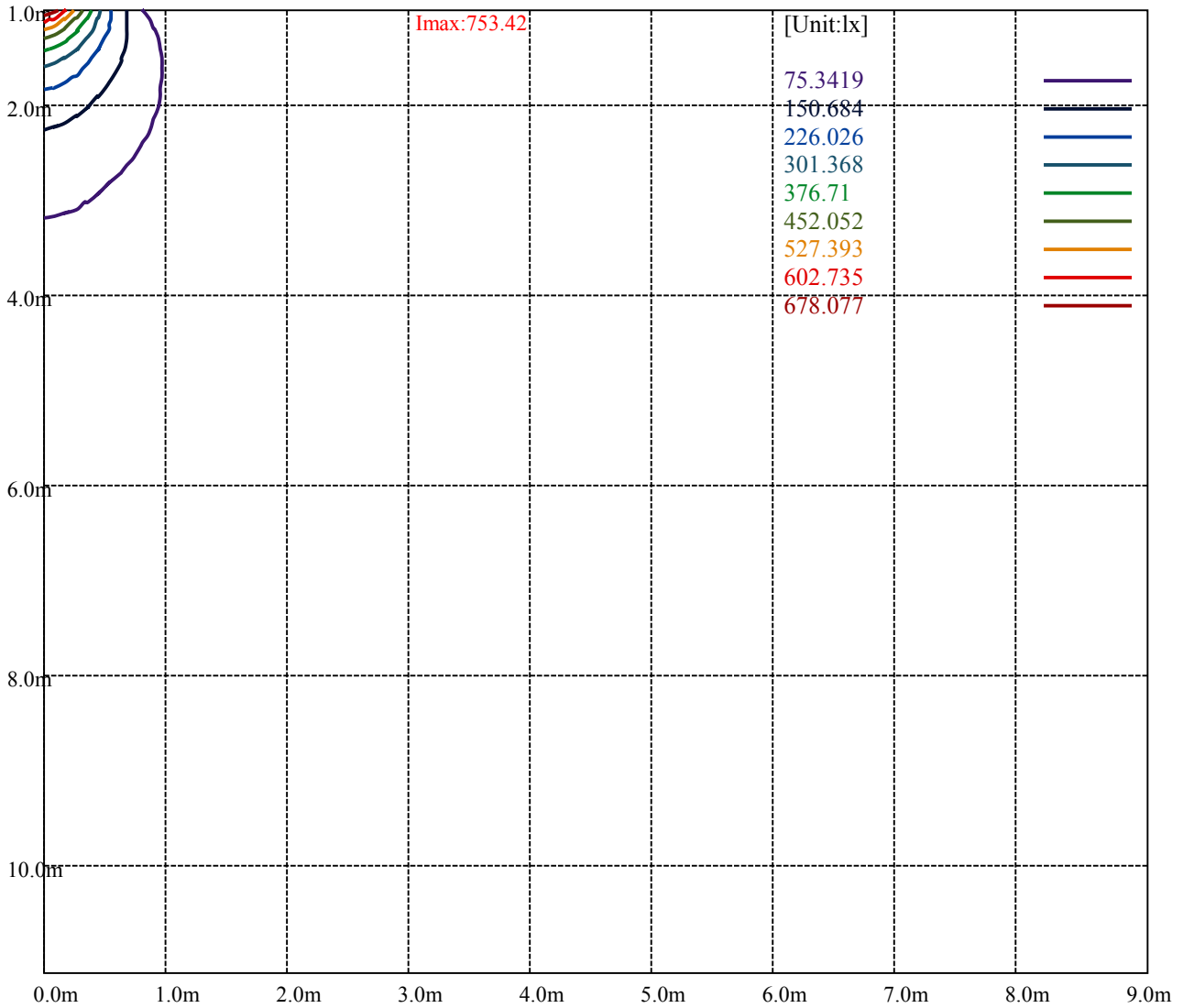
(80%Imax) 602.735

(90%Imax) 678.077





(10%Emax) 8.371311	—
(20%Emax) 16.74267	—
(30%Emax) 25.11389	—
(40%Emax) 33.48522	—
(50%Emax) 41.85656	—
(60%Emax) 50.22789	—
(70%Emax) 58.59922	—
(80%Emax) 66.97055	—
(90%Emax) 75.34177	—



Luminance Table

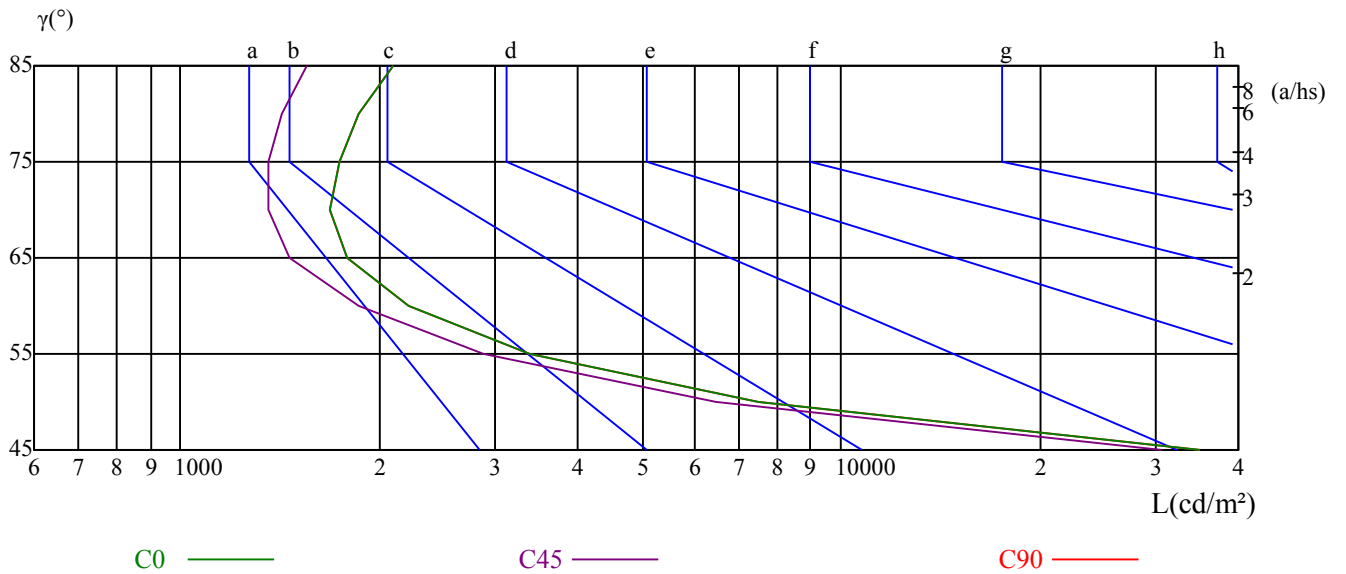
γ	45	50	55	60	65	70	75	80	85
C0	34965	7482	3389	2221	1783	1688	1735	1859	2101
C45	30617	6456	2880	1856	1463	1357	1363	1420	1551
C90	34965	7482	3389	2221	1783	1688	1735	1859	2101

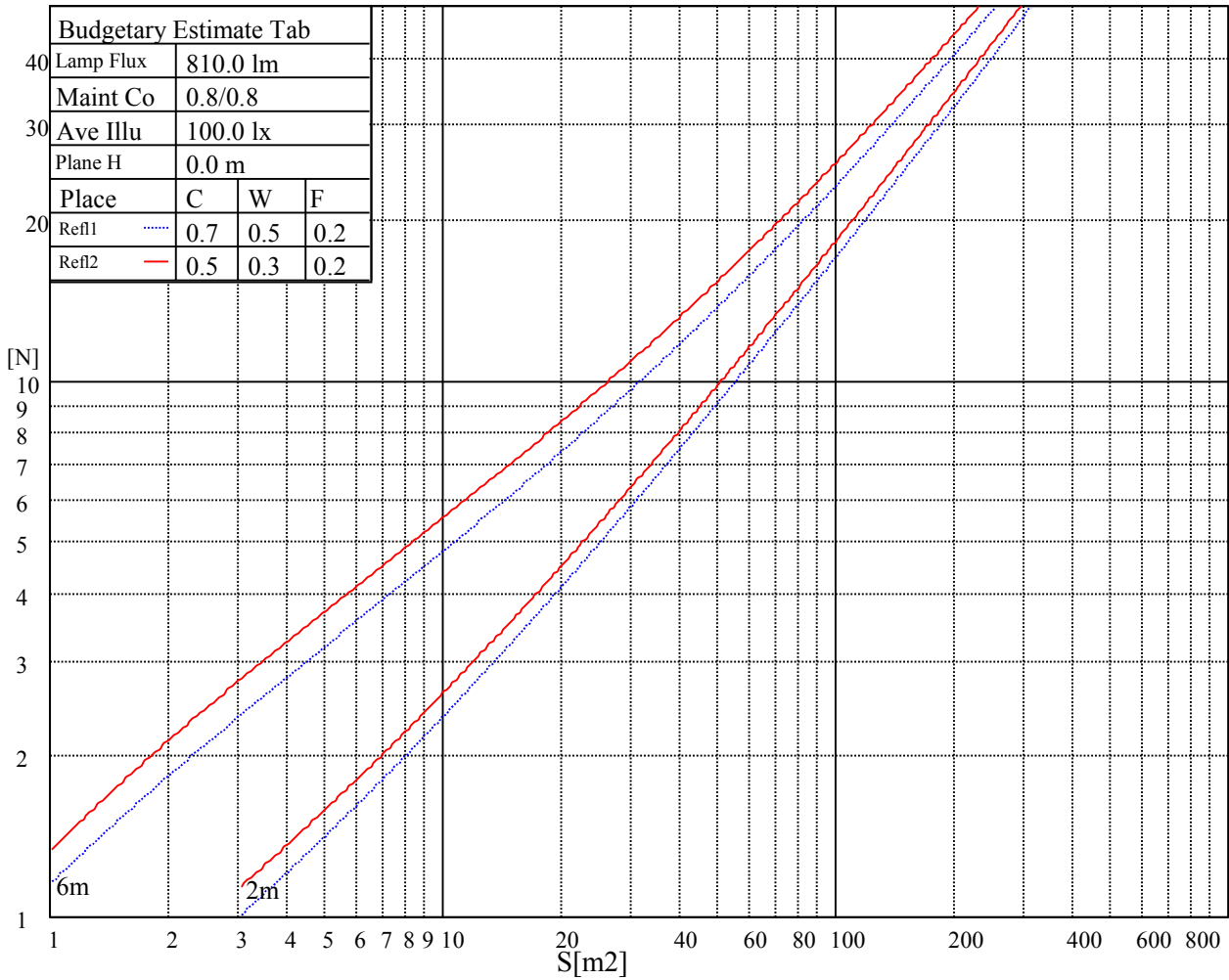
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3779	3779	3779	5114	5114	5114	14628	14628	14628

Glare Table

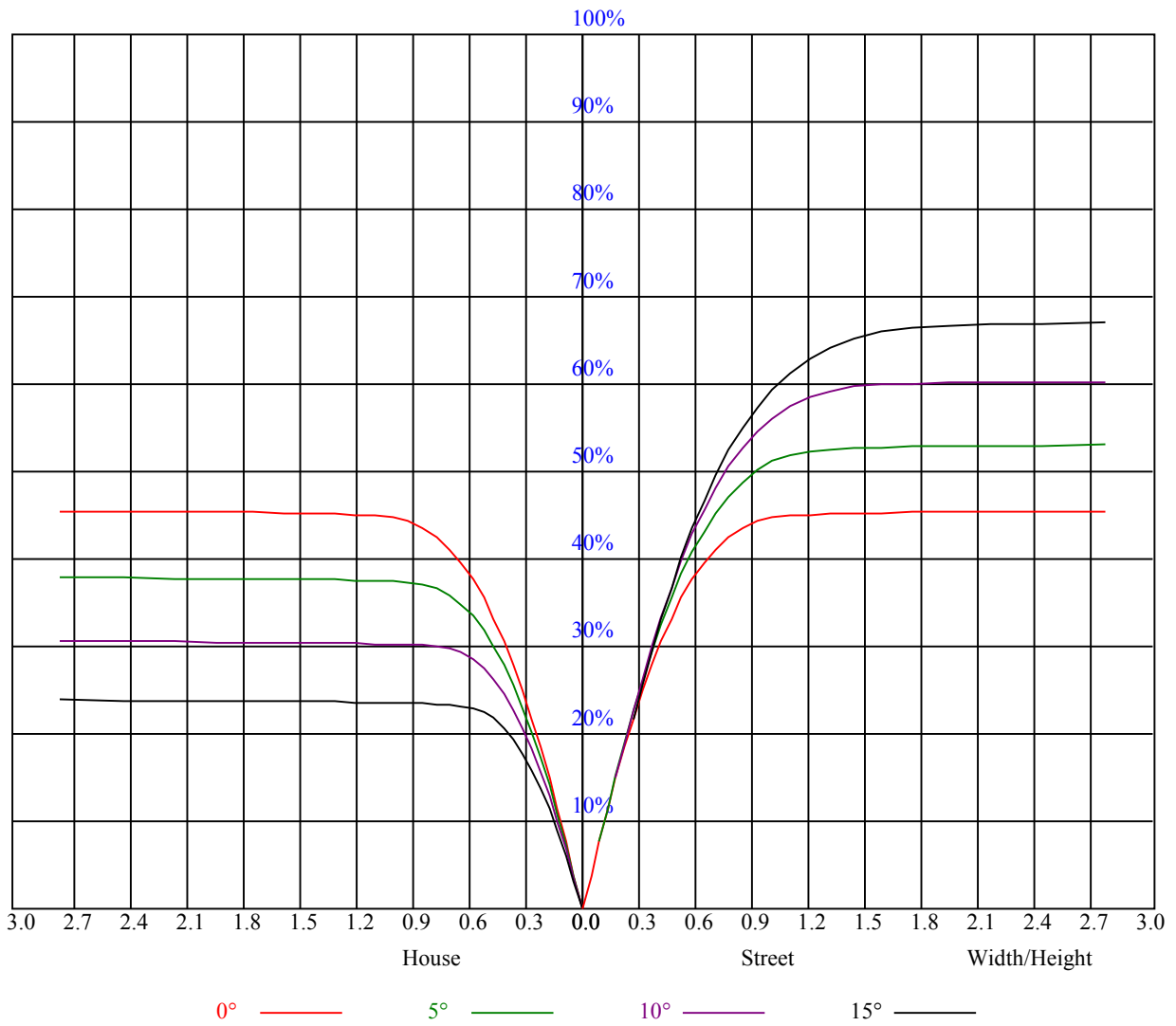
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.01	0.98	0.96	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.89	0.87	0.86	0.85
2	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.83	0.86	0.83	0.81	0.83	0.81	0.80	0.78
3	0.86	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.80	0.77	0.74	0.78	0.76	0.73	0.72
4	0.80	0.75	0.70	0.79	0.74	0.70	0.77	0.73	0.69	0.75	0.71	0.68	0.73	0.70	0.67	0.66
5	0.74	0.69	0.64	0.73	0.68	0.64	0.72	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.61
6	0.69	0.63	0.59	0.69	0.63	0.59	0.67	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.56
7	0.65	0.59	0.55	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.52
8	0.61	0.55	0.51	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.48
9	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.55	0.50	0.47	0.54	0.50	0.46	0.45
10	0.53	0.48	0.44	0.53	0.47	0.44	0.52	0.47	0.44	0.51	0.47	0.44	0.51	0.46	0.43	0.42



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	753.50	737.92	670.86	582.28	511.25	451.46	385.28	323.35	268.40
45.0	750.91	731.48	679.12	596.26	523.64	456.42	392.17	323.90	270.88
90.0	757.03	726.19	659.63	592.46	524.85	454.99	389.08	318.83	257.39
135.0	752.24	723.72	673.73	603.31	547.98	485.38	408.96	328.30	266.64
180.0	753.50	705.16	654.57	605.01	551.22	476.07	395.58	310.96	242.14
225.0	750.91	711.55	651.26	598.41	544.12	470.07	390.85	308.26	232.83
270.0	757.03	720.96	658.03	587.23	533.72	473.76	396.35	317.12	250.01
315.0	752.24	711.66	641.46	569.39	510.21	445.52	374.82	301.05	207.78
360.0	753.50	737.92	670.86	582.28	511.25	451.46	385.28	323.35	268.40
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	94.59	20.87	9.58	5.56	3.80	3.14	2.86	2.75	2.70
45.0	99.21	21.75	10.19	6.06	4.02	3.19	2.81	2.70	2.70
90.0	76.36	20.70	9.30	5.34	3.80	3.14	2.86	2.70	2.70
135.0	118.81	18.83	7.38	4.46	3.30	2.92	2.81	2.70	2.70
180.0	66.45	11.07	4.35	3.19	2.92	2.81	2.75	2.70	2.70
225.0	58.30	10.46	4.07	3.14	2.86	2.81	2.75	2.64	2.70
270.0	73.45	13.71	5.67	3.47	2.92	2.81	2.75	2.70	2.70
315.0	49.72	14.65	6.88	4.57	3.41	2.97	2.81	2.75	2.70
360.0	94.59	20.87	9.58	5.56	3.80	3.14	2.86	2.75	2.70
C/γ(°)	90.0								
0.0	2.70								
45.0	2.64								
90.0	2.70								
135.0	2.70								
180.0	2.70								
225.0	2.64								
270.0	2.70								
315.0	2.70								
360.0	2.70								