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NATA

LumCAT: 2-2641-L

Luminaire: 92.70.412.00

LampCAT: CITIZEN CLU038 LES14.5

Ballast type: AC

Report No: 20231008-B017

Voltage(V): 35.9700

Test No: 20231008-C017

Current(A): 0.5400

Number of Lamps: 1

Power (W): 19.4230

Lamp flux(lm): 2889.2

PF: 0.0000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2676.56, Efficiency(%): 92.64% , Luminous Efficacy(lm/W): 137.80

Central intensity(cd): 6067.668, Maximum intensity(cd): 6067.668

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=36.2

[C90/270]Total=36.2

Field angle(10%Imax): [C0/180]Total=64.6

[C90/270]Total=64.6

Maximum s/h(1/2): C0_180=0.59 C90_270=0.59

Maximum s/h(1/4): C0_180=0.60 C90_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.64%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.940%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6067.668	0.000	0	0.00%	0.00%
1.0	6056.459	5.801	5.801	0.20%	0.22%
2.0	6016.604	17.328	23.13	0.60%	0.86%
3.0	5945.475	28.609	51.739	0.99%	1.93%
4.0	5861.960	39.523	91.262	1.37%	3.41%
5.0	5747.171	49.942	141.204	1.73%	5.28%
6.0	5619.788	59.736	200.94	2.07%	7.51%
7.0	5473.585	68.856	269.797	2.38%	10.08%
8.0	5297.215	77.085	346.881	2.67%	12.96%
9.0	5116.070	84.394	431.275	2.92%	16.11%
10.0	4907.387	90.709	521.984	3.14%	19.50%
11.0	4692.546	95.923	617.907	3.32%	23.09%
12.0	4459.023	100.040	717.947	3.46%	26.82%
13.0	4238.162	103.214	821.161	3.57%	30.68%
14.0	3997.374	105.414	926.575	3.65%	34.62%
15.0	3772.569	106.669	1033.244	3.69%	38.60%
16.0	3532.335	107.037	1140.281	3.70%	42.60%
17.0	3293.899	106.303	1246.584	3.68%	46.57%
18.0	3056.432	104.703	1351.287	3.62%	50.49%
19.0	2816.267	102.173	1453.46	3.54%	54.30%
20.0	2569.113	98.567	1552.027	3.41%	57.99%
21.0	2354.894	94.551	1646.578	3.27%	61.52%
22.0	2137.770	90.282	1736.86	3.12%	64.89%
23.0	1952.958	85.835	1822.695	2.97%	68.10%
24.0	1777.971	81.571	1904.266	2.82%	71.15%
25.0	1601.117	76.833	1981.099	2.66%	74.02%
26.0	1434.087	71.646	2052.746	2.48%	76.69%
27.0	1248.916	65.640	2118.386	2.27%	79.15%
28.0	1148.304	60.693	2179.079	2.10%	81.41%
29.0	1010.307	56.475	2235.554	1.95%	83.52%
30.0	887.235	51.233	2286.787	1.77%	85.44%
31.0	756.739	45.749	2332.537	1.58%	87.15%
32.0	643.555	40.117	2372.653	1.39%	88.65%
33.0	536.224	34.757	2407.41	1.20%	89.94%
34.0	444.406	29.677	2437.087	1.03%	91.05%
35.0	354.125	24.799	2461.886	0.86%	91.98%
36.0	282.137	20.259	2482.145	0.70%	92.74%
37.0	238.332	16.975	2499.12	0.59%	93.37%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	183.442	14.078	2513.198	0.49%	93.90%
39.0	136.115	10.907	2524.105	0.38%	94.30%
40.0	111.268	8.628	2532.733	0.30%	94.63%
41.0	98.246	7.461	2540.194	0.26%	94.91%
42.0	89.085	6.806	2547	0.24%	95.16%
43.0	81.598	6.323	2553.322	0.22%	95.40%
44.0	75.184	5.917	2559.24	0.20%	95.62%
45.0	69.303	5.553	2564.793	0.19%	95.82%
46.0	64.411	5.229	2570.022	0.18%	96.02%
47.0	60.135	4.954	2574.975	0.17%	96.20%
48.0	55.831	4.688	2579.663	0.16%	96.38%
49.0	52.150	4.434	2584.098	0.15%	96.55%
50.0	48.746	4.207	2588.304	0.15%	96.70%
51.0	45.812	4.001	2592.305	0.14%	96.85%
52.0	42.927	3.808	2596.113	0.13%	96.99%
53.0	40.470	3.628	2599.741	0.13%	97.13%
54.0	38.277	3.471	2603.211	0.12%	97.26%
55.0	36.236	3.326	2606.538	0.12%	97.38%
56.0	34.458	3.194	2609.732	0.11%	97.50%
57.0	32.839	3.077	2612.809	0.11%	97.62%
58.0	31.365	2.969	2615.778	0.10%	97.73%
59.0	30.015	2.870	2618.647	0.10%	97.84%
60.0	28.756	2.777	2621.424	0.10%	97.94%
61.0	27.594	2.689	2624.113	0.09%	98.04%
62.0	26.521	2.608	2626.721	0.09%	98.14%
63.0	25.615	2.536	2629.256	0.09%	98.23%
64.0	24.653	2.467	2631.723	0.09%	98.32%
65.0	23.809	2.398	2634.121	0.08%	98.41%
66.0	22.979	2.334	2636.456	0.08%	98.50%
67.0	22.238	2.274	2638.729	0.08%	98.59%
68.0	21.491	2.215	2640.945	0.08%	98.67%
69.0	20.744	2.155	2643.099	0.07%	98.75%
70.0	20.073	2.096	2645.195	0.07%	98.83%
71.0	19.381	2.039	2647.235	0.07%	98.90%
72.0	18.730	1.982	2649.216	0.07%	98.98%
73.0	18.149	1.929	2651.145	0.07%	99.05%
74.0	17.533	1.876	2653.021	0.06%	99.12%
75.0	16.938	1.821	2654.842	0.06%	99.19%

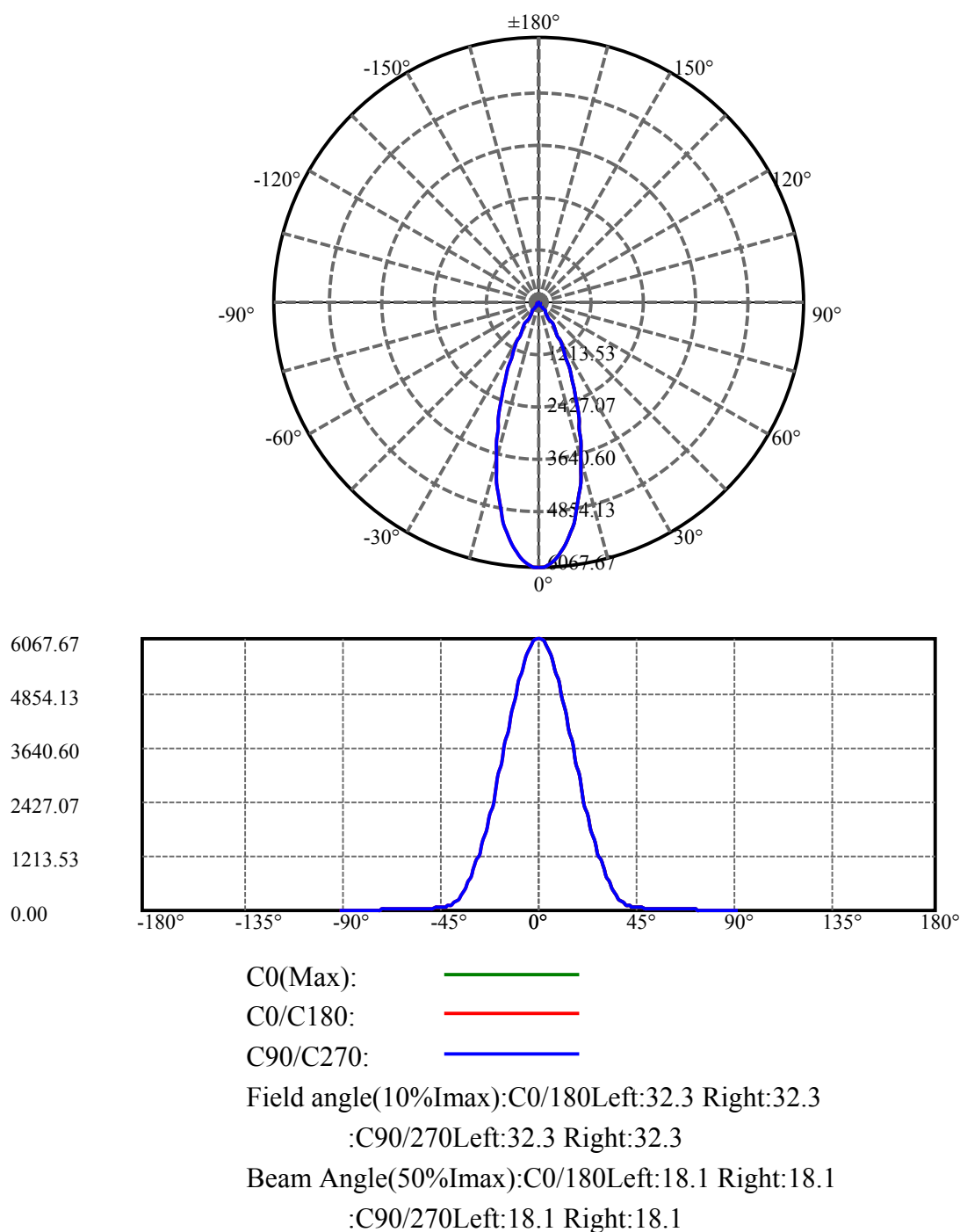
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.378	1.769	2656.611	0.06%	99.25%
77.0	15.817	1.716	2658.327	0.06%	99.32%
78.0	15.298	1.666	2659.993	0.06%	99.38%
79.0	14.786	1.616	2661.609	0.06%	99.44%
80.0	14.302	1.568	2663.177	0.05%	99.50%
81.0	13.783	1.519	2664.696	0.05%	99.56%
82.0	13.326	1.470	2666.166	0.05%	99.61%
83.0	12.842	1.423	2667.589	0.05%	99.66%
84.0	12.468	1.379	2668.968	0.05%	99.72%
85.0	12.129	1.342	2670.31	0.05%	99.77%
86.0	11.804	1.308	2671.618	0.05%	99.82%
87.0	11.534	1.277	2672.896	0.04%	99.86%
88.0	11.230	1.247	2674.143	0.04%	99.91%
89.0	11.008	1.219	2675.362	0.04%	99.96%
90.0	10.905	1.201	2676.563	0.04%	100.00%

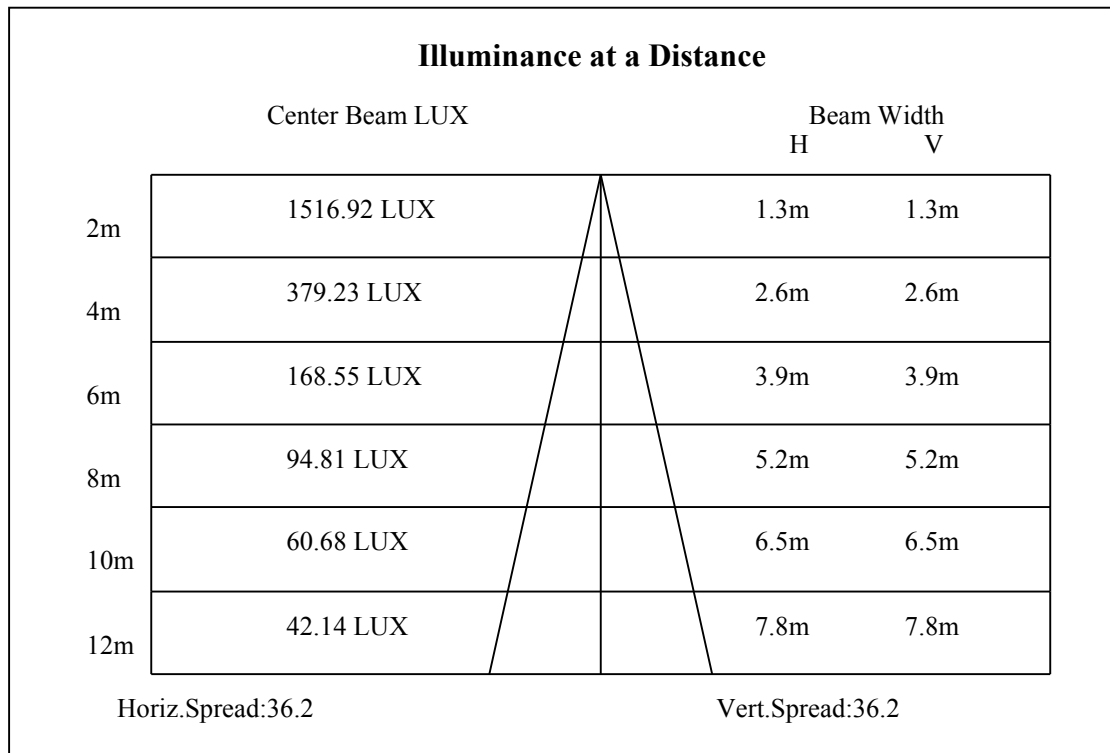
ZONAL LUMEN SUMMARY

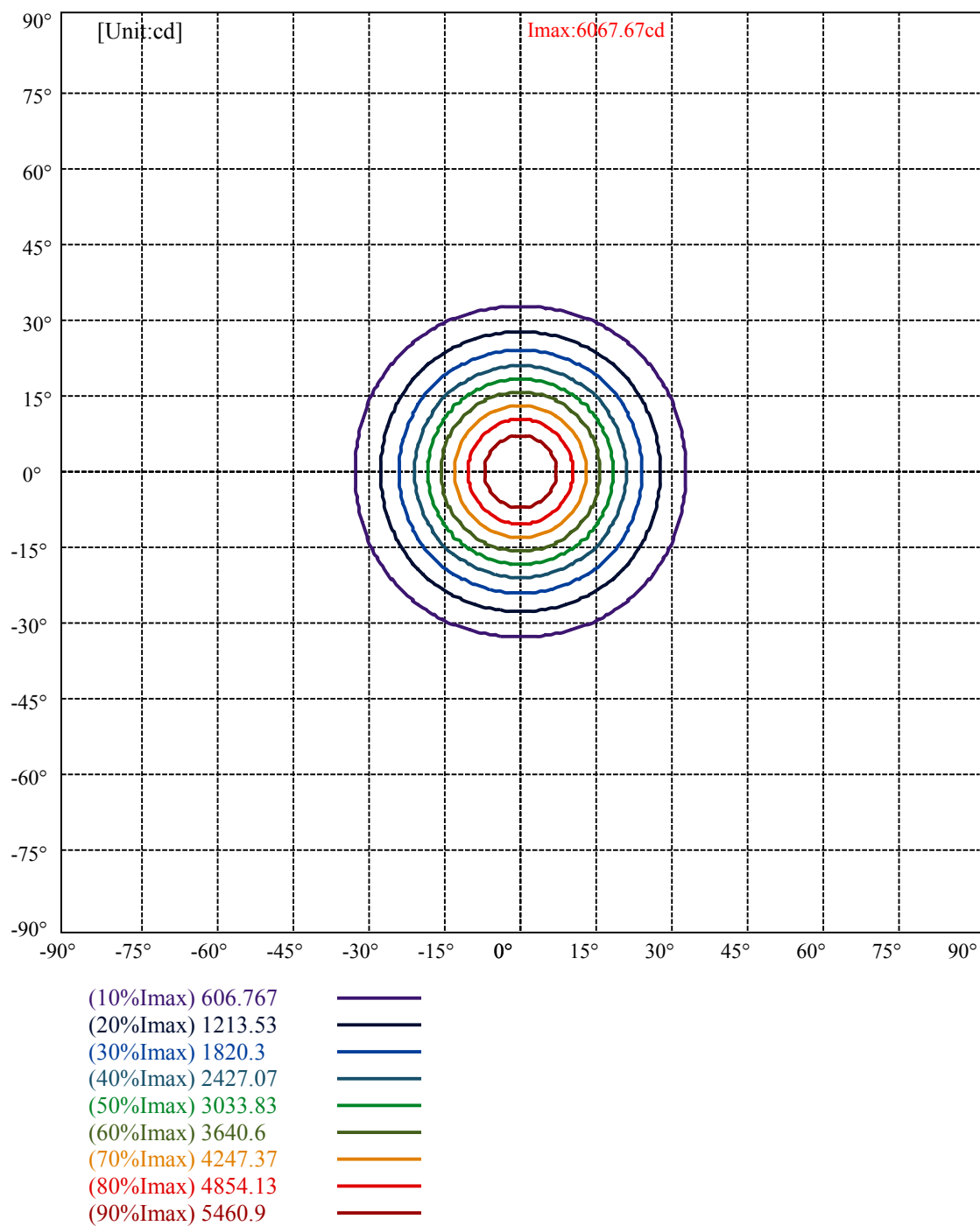
Zone	Lumens	%Lamp	%Fixt
0-30	2286.79	79.15%	85.44%
0-40	2532.73	87.66%	94.63%
0-60	2621.42	90.73%	97.94%
0-90	2675.36	92.60%	99.96%
0-120	2675.36	92.60%	99.96%
0-180	2676.56	92.64%	100.00%
60-90	53.94	1.87%	2.02%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.38	2141.25	74.11%	80.00%

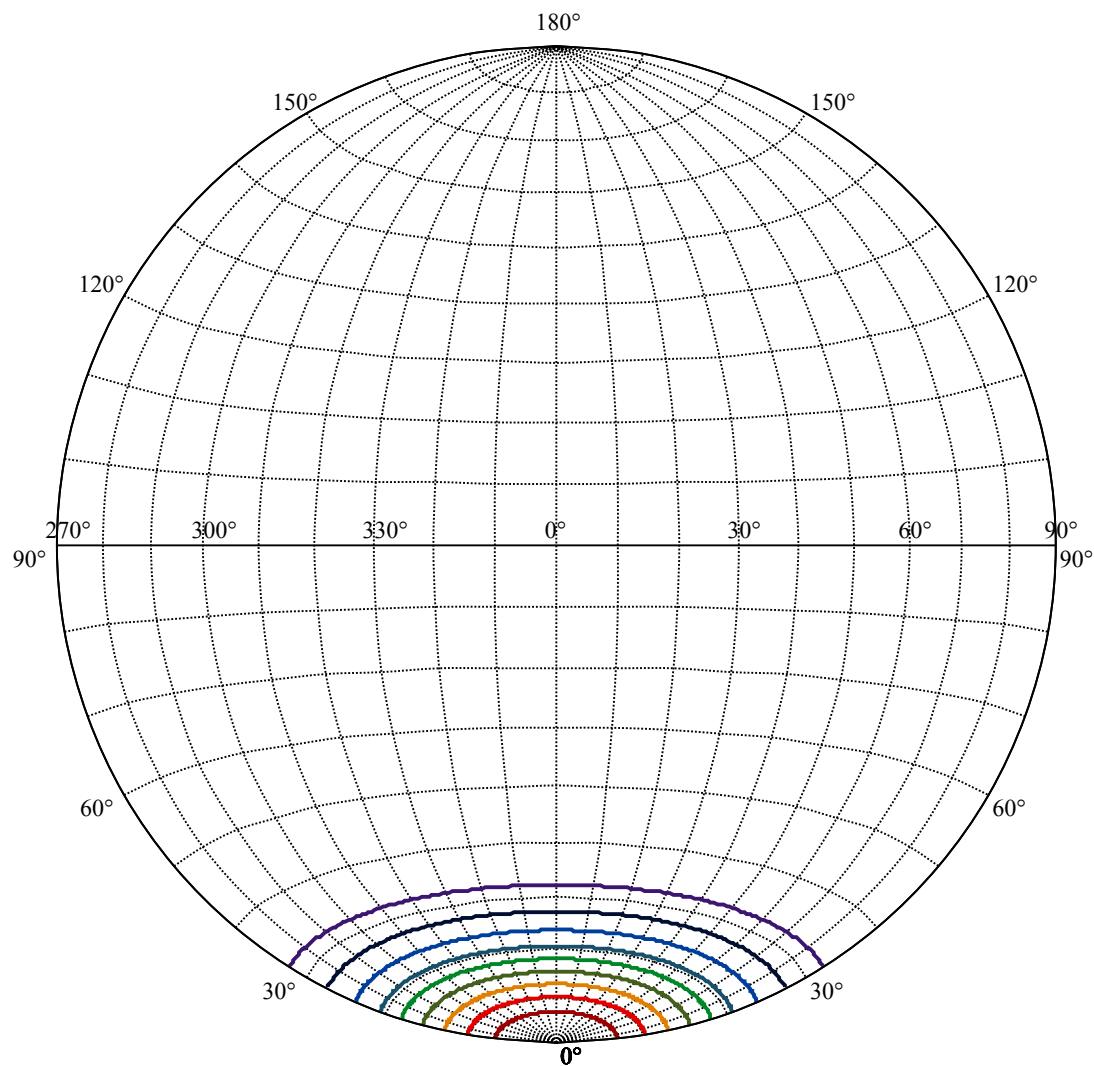
ZONAL LUMEN SUMMARY

0-10	521.98
10-20	1030.04
20-30	734.76
30-40	245.95
40-50	55.57
50-60	33.12
60-70	23.77
70-80	17.98
80-90	12.18
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







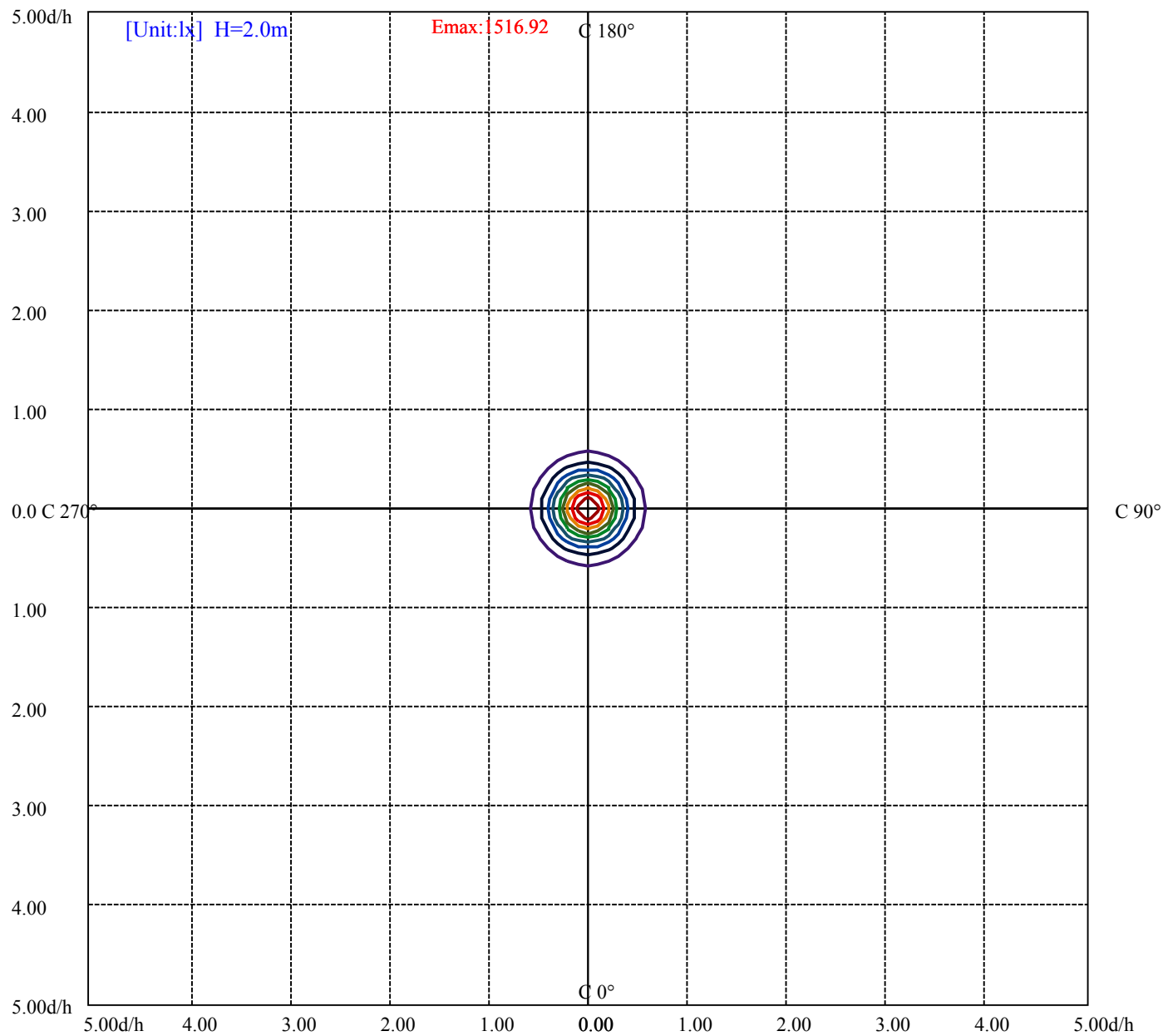


House

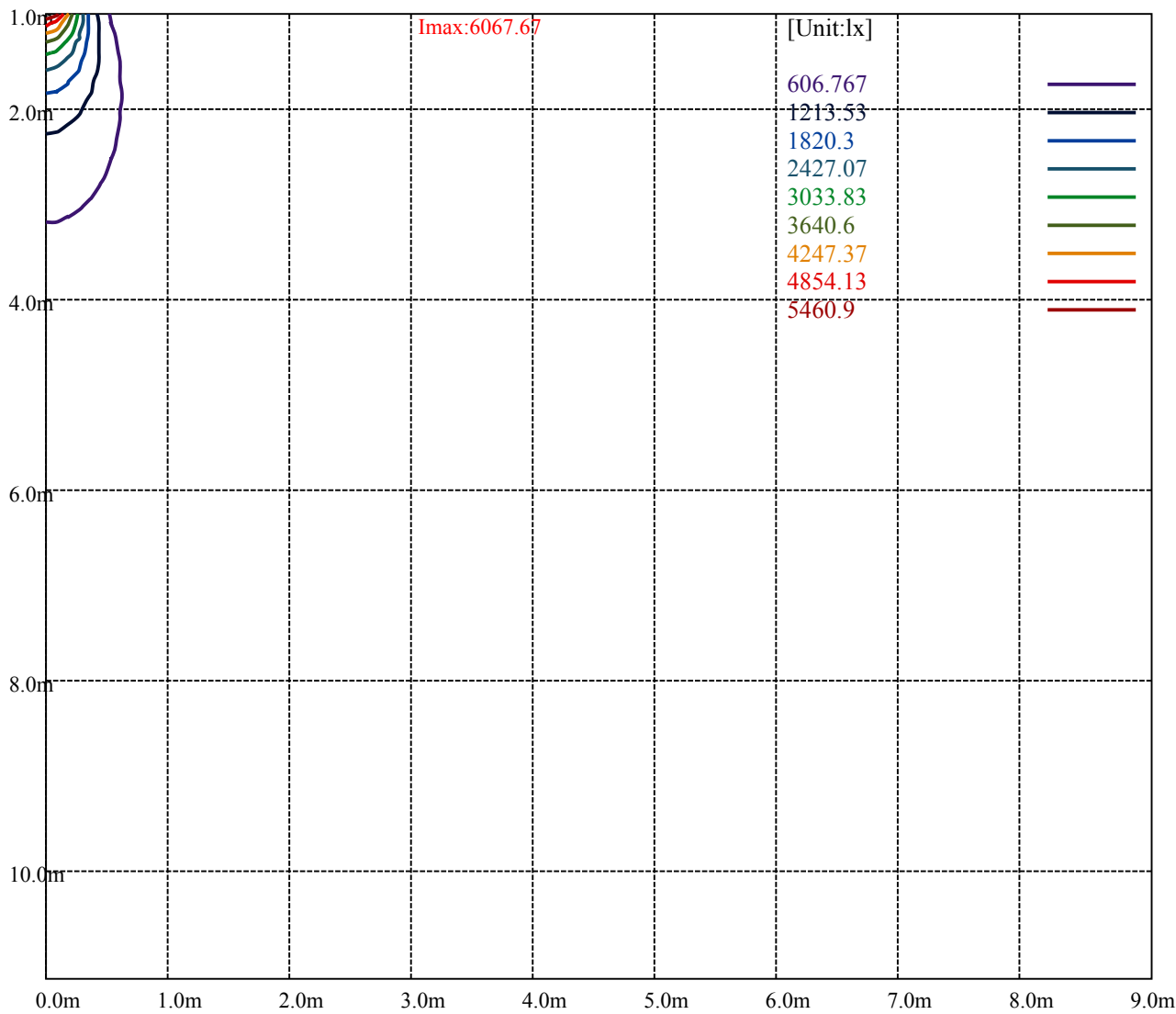
[Unit:cd]

Road

Imax:6067.67	
(10%Imax) 606.767	
(20%Imax) 1213.53	
(30%Imax) 1820.3	
(40%Imax) 2427.07	
(50%Imax) 3033.83	
(60%Imax) 3640.6	
(70%Imax) 4247.37	
(80%Imax) 4854.13	
(90%Imax) 5460.9	



(10%Emax)	151.6918	—
(20%Emax)	303.3825	—
(30%Emax)	455.075	—
(40%Emax)	606.7675	—
(50%Emax)	758.4575	—
(60%Emax)	910.15	—
(70%Emax)	1061.843	—
(80%Emax)	1213.532	—
(90%Emax)	1365.225	—



Luminance Limiting Curve(no luminous side)

Luminance Table

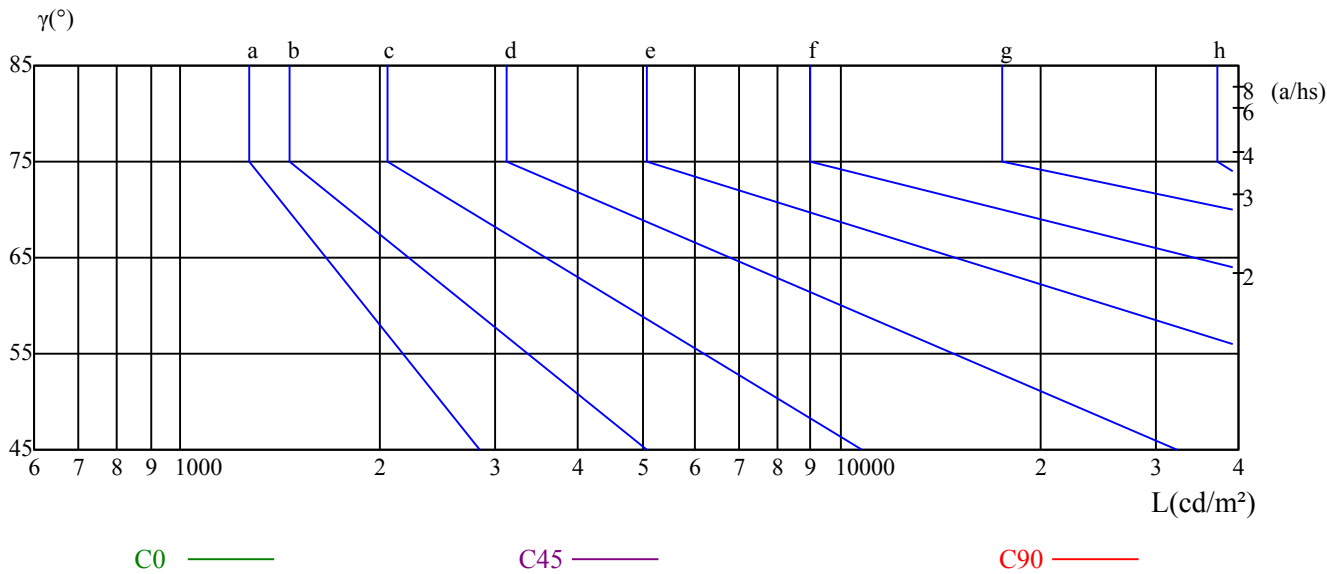
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

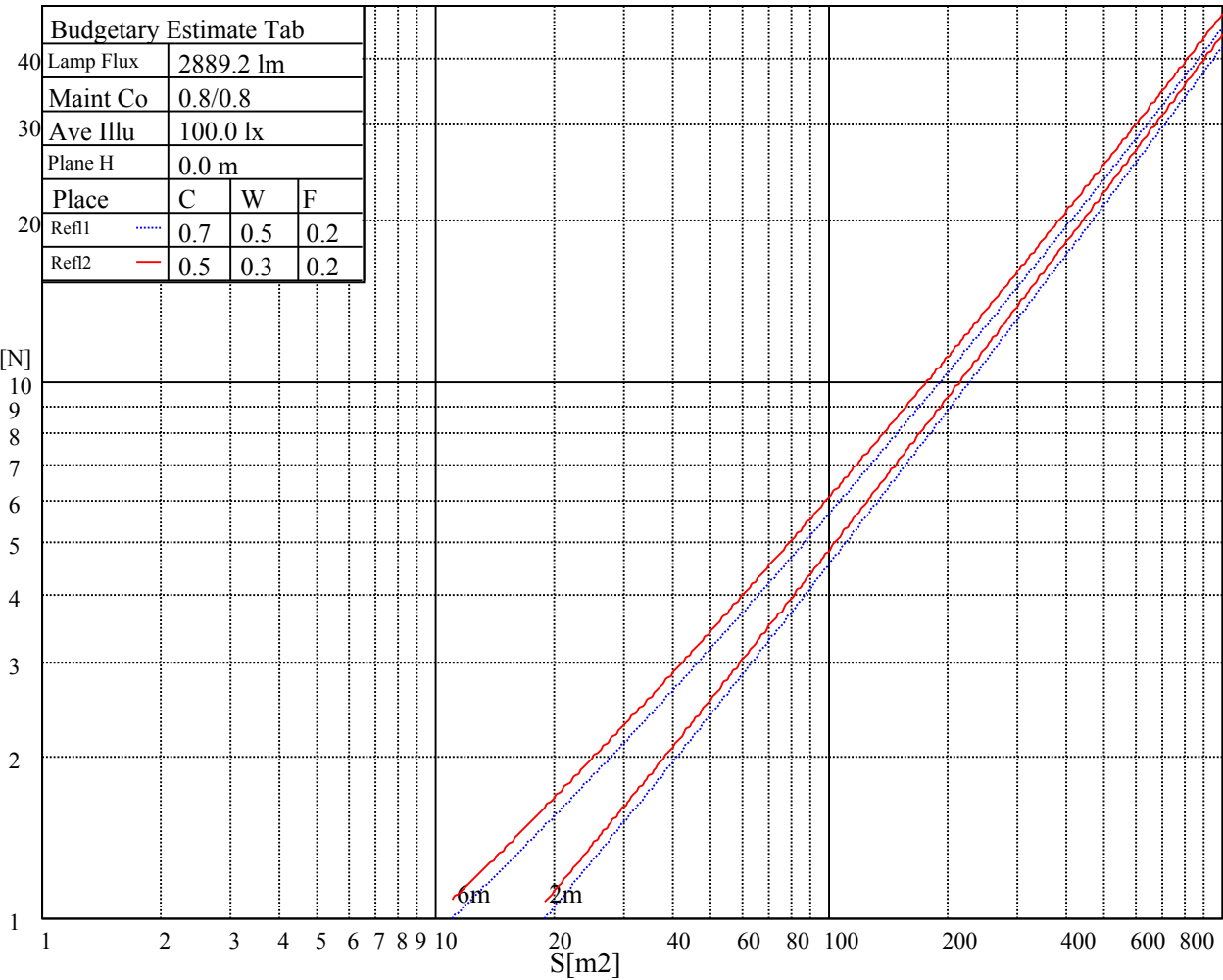
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

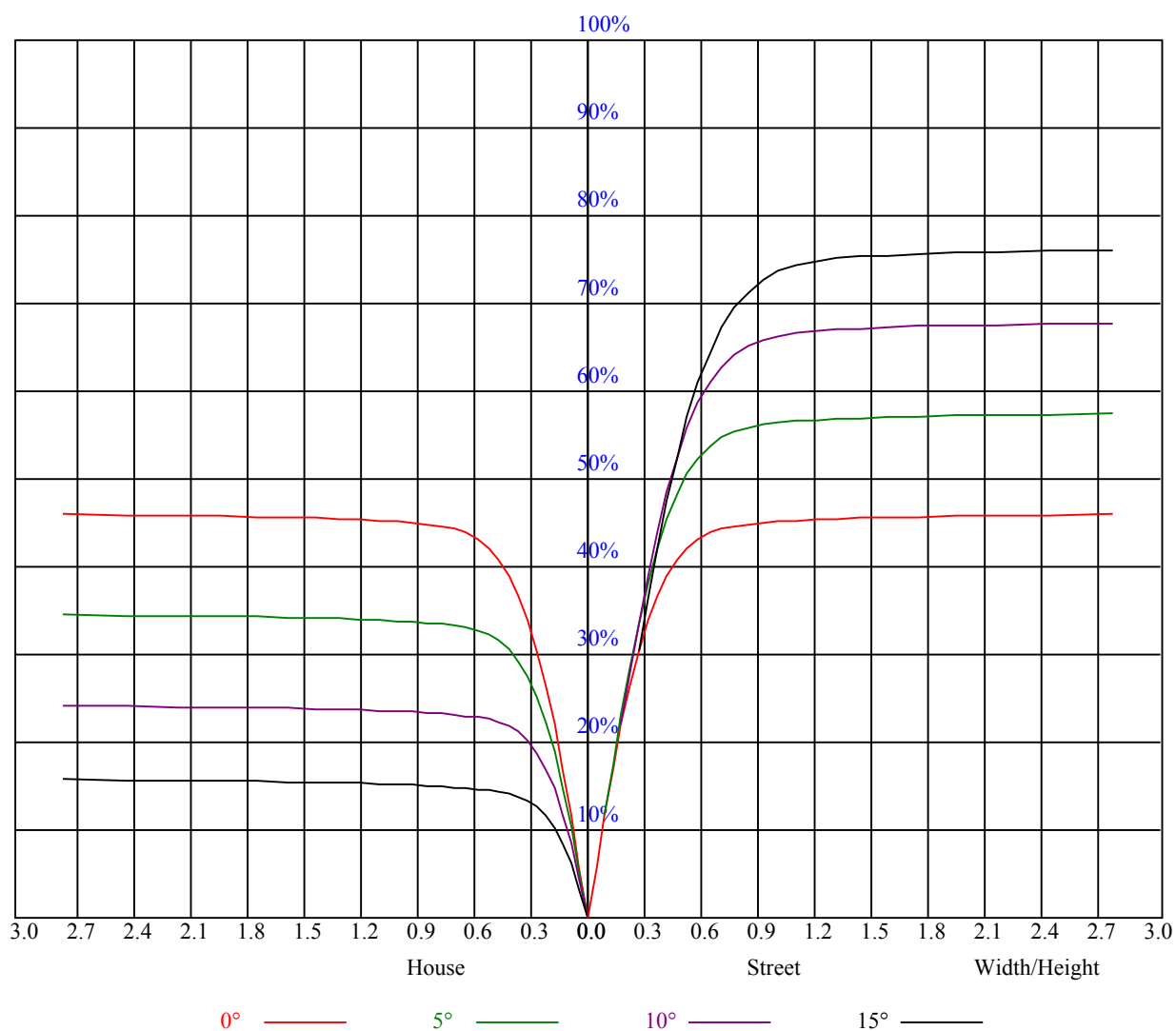


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.81	0.79	0.78
4	0.87	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.75	0.74
5	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
6	0.78	0.73	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
7	0.75	0.70	0.66	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
8	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
9	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59
10	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.60	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56



NATA 2-2641-L

Intensity data(cd)									Appendix Page: 17 Total:19
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	6056.74	6006.92	5948.24	5827.57	5717.97	5550.25	5401.35	5230.86	5006.12
45.0	6083.31	6066.70	6029.06	5960.42	5864.66	5762.81	5645.46	5467.22	5311.12
90.0	6065.04	6041.24	5956.55	5870.75	5789.38	5662.62	5496.00	5336.59	5163.33
135.0	6065.59	6057.29	6040.68	5975.92	5880.16	5792.15	5665.94	5522.02	5361.49
180.0	6056.74	6094.38	6078.88	6051.75	5991.97	5912.82	5827.02	5705.24	5571.28
225.0	6083.31	6071.68	6017.99	5955.44	5877.39	5742.88	5624.98	5488.81	5281.79
270.0	6065.04	6074.45	6053.97	6006.92	5944.37	5829.23	5726.27	5611.69	5421.28
315.0	6065.59	6039.02	6007.47	5915.03	5829.79	5724.61	5571.28	5426.26	5261.30
360.0	6056.74	6006.92	5948.24	5827.57	5717.97	5550.25	5401.35	5230.86	5006.12
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4797.99	4590.42	4377.31	4109.95	3890.20	3672.66	3446.81	3162.85	2934.24
45.0	5137.31	4905.38	4710.54	4447.61	4228.96	4018.06	3802.74	3521.54	3295.70
90.0	4983.98	4726.04	4518.46	4314.20	4046.85	3831.52	3554.20	3325.04	3101.96
135.0	5189.34	5002.25	4801.32	4547.24	4336.35	4061.79	3835.95	3613.98	3333.34
180.0	5384.74	5213.15	4969.04	4764.23	4552.78	4288.74	4076.18	3869.16	3638.89
225.0	5094.14	4903.17	4652.97	4454.25	4237.82	3980.98	3768.42	3558.63	3339.43
270.0	5266.84	5095.80	4894.31	4628.61	4422.14	4204.60	3994.26	3726.90	3507.70
315.0	5074.21	4822.90	4616.43	4406.09	4190.21	3920.64	3701.99	3480.58	3199.94
360.0	4797.99	4590.42	4377.31	4109.95	3890.20	3672.66	3446.81	3162.85	2934.24
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2712.82	2492.52	2234.02	2051.90	1841.56	1682.69	1542.65	1264.22	1092.07
45.0	3065.43	2841.24	2564.48	2352.47	2155.97	1977.73	1770.15	1621.81	1439.14
90.0	2872.24	2602.67	2389.56	2187.52	2010.39	1807.79	1656.68	1515.53	1257.58
135.0	3103.07	2885.53	2608.76	2397.31	2199.14	2018.14	1852.08	1661.11	1515.53
180.0	3376.51	3131.30	2911.54	2696.77	2428.31	2217.96	2024.23	1828.27	1669.96
225.0	3050.48	2827.96	2601.56	2384.58	2134.93	1952.82	1794.51	1614.06	1473.46
270.0	3302.89	3008.41	2777.03	2510.78	2310.40	2111.68	1883.07	1741.92	1596.34
315.0	2968.00	2740.50	2465.95	2257.82	2021.46	1854.84	1700.41	1562.02	1428.62
360.0	2712.82	2492.52	2234.02	2051.90	1841.56	1682.69	1542.65	1264.22	1092.07
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1092.07	962.99	814.09	702.82	599.26	500.62	390.24	311.59	244.28
45.0	1288.02	1146.87	979.15	855.16	742.79	640.94	522.48	434.47	354.76
90.0	1078.84	1044.02	881.01	766.98	659.43	535.10	445.49	362.46	271.84
135.0	1376.59	1195.03	1059.97	932.65	784.86	674.71	547.95	454.95	371.37
180.0	1532.13	1396.52	1211.08	1081.55	923.80	801.46	682.45	583.93	467.13
225.0	1083.21	1083.21	1016.46	892.41	747.11	646.14	550.49	462.53	362.79
270.0	1459.62	1276.95	1139.12	1004.06	875.09	731.72	628.76	531.89	425.61
315.0	1080.83	1080.83	981.59	862.24	721.59	617.75	521.93	413.44	335.22
360.0	1092.07	962.99	814.09	702.82	599.26	500.62	390.24	311.59	244.28
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	179.57	141.98	118.62	102.96	93.55	85.96	77.72	72.29	67.31
45.0	284.46	284.46	156.04	127.53	108.60	98.42	89.84	81.31	75.34
90.0	211.84	163.74	131.52	110.87	100.47	91.61	84.52	77.05	71.74
135.0	297.19	297.19	164.12	132.35	113.75	100.96	92.22	85.19	78.88
180.0	380.22	302.18	285.57	211.84	134.90	112.70	99.36	90.28	83.25
225.0	291.88	229.16	166.95	131.91	111.54	98.53	89.34	82.14	74.34
270.0	345.90	292.77	292.77	151.72	121.78	102.18	92.61	84.25	77.66
315.0	266.03	195.18	151.95	119.73	105.56	95.60	87.07	80.26	72.96
360.0	179.57	141.98	118.62	102.96	93.55	85.96	77.72	72.29	67.31

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Intensity data(cd)

Appendix Page: 18 Total:19

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	62.94	57.68	54.14	50.81	47.71	44.28	41.90	39.13	37.20
45.0	68.80	64.32	60.11	56.18	51.70	48.66	45.67	43.01	40.13
90.0	66.81	61.55	57.62	53.19	49.93	46.94	44.23	41.40	39.13
135.0	72.18	67.25	61.94	57.79	54.19	49.93	46.94	44.17	41.79
180.0	75.72	70.58	65.93	60.78	56.96	53.69	49.65	46.77	44.06
225.0	69.36	64.76	60.72	55.85	52.59	49.43	46.61	43.34	41.02
270.0	70.74	65.82	61.39	57.51	53.03	49.76	46.83	43.51	41.07
315.0	67.86	63.32	59.23	54.52	51.09	47.27	44.67	42.07	39.36
360.0	62.94	57.68	54.14	50.81	47.71	44.28	41.90	39.13	37.20
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.43	33.43	32.05	30.78	29.28	28.23	27.23	26.35	25.24
45.0	38.08	36.20	34.49	32.60	31.27	29.67	28.51	27.40	26.13
90.0	37.25	35.43	33.43	31.99	30.67	29.50	28.12	27.07	25.91
135.0	39.08	37.20	35.37	33.71	31.99	30.61	29.34	27.84	26.85
180.0	41.63	38.86	36.98	35.20	33.60	31.88	30.56	29.17	28.06
225.0	38.86	36.53	34.76	32.82	31.50	30.17	28.78	27.73	26.74
270.0	38.53	36.64	34.93	33.32	31.61	30.33	29.12	27.79	26.85
315.0	37.36	35.59	33.65	32.27	31.00	29.72	28.40	27.40	26.40
360.0	35.43	33.43	32.05	30.78	29.28	28.23	27.23	26.35	25.24
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.41	23.64	22.92	21.98	21.31	20.59	19.76	19.15	18.43
45.0	25.35	24.52	23.69	22.69	22.03	21.31	20.65	19.87	19.26
90.0	24.96	24.13	23.14	22.36	21.64	20.92	20.15	19.48	18.88
135.0	25.91	24.80	23.97	23.08	22.31	21.64	20.98	20.26	19.54
180.0	27.07	25.91	25.13	24.30	23.53	22.58	21.92	21.20	20.54
225.0	25.79	24.74	23.97	23.19	22.53	21.64	20.92	20.31	19.48
270.0	25.91	25.02	24.02	23.30	22.58	21.92	21.09	20.43	19.65
315.0	25.52	24.47	23.64	22.92	21.98	21.31	20.48	19.87	19.26
360.0	24.41	23.64	22.92	21.98	21.31	20.59	19.76	19.15	18.43
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.88	17.33	16.77	16.16	15.67	15.22	14.72	14.17	13.67
45.0	18.60	17.93	17.38	16.83	16.16	15.67	15.22	14.61	14.17
90.0	18.32	17.60	17.05	16.55	15.89	15.39	14.89	14.34	13.89
135.0	18.88	18.27	17.71	17.05	16.55	16.00	15.39	14.89	14.39
180.0	19.76	19.15	18.60	17.82	17.27	16.55	16.05	15.55	15.00
225.0	18.88	18.38	17.60	17.05	16.50	15.89	15.39	14.89	14.39
270.0	19.04	18.54	17.77	17.21	16.72	16.16	15.55	15.11	14.61
315.0	18.49	17.99	17.38	16.83	16.27	15.67	15.17	14.72	14.28
360.0	17.88	17.33	16.77	16.16	15.67	15.22	14.72	14.17	13.67
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.28	12.79	12.40	12.12	11.85	11.46	11.24	10.90	10.90
45.0	13.73	13.23	12.73	12.40	12.01	11.73	11.40	11.13	10.85
90.0	13.28	12.95	12.57	12.18	11.85	11.62	11.35	11.02	10.90
135.0	13.89	13.45	12.84	12.51	12.12	11.85	11.51	11.29	11.02
180.0	14.45	14.00	13.40	12.95	12.57	12.18	11.90	11.57	11.29
225.0	13.84	13.34	12.95	12.51	12.18	11.85	11.62	11.35	11.02
270.0	14.06	13.62	13.06	12.62	12.29	11.96	11.68	11.35	11.13
315.0	13.73	13.23	12.79	12.45	12.18	11.79	11.57	11.24	10.96
360.0	13.28	12.79	12.40	12.12	11.85	11.46	11.24	10.90	10.90

Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	10.90
45.0	10.85
90.0	10.90
135.0	10.90
180.0	11.02
225.0	10.90
270.0	10.85
315.0	10.90
360.0	10.90