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NATA

Client:

LumCAT: 2-2639-L Luminaire:

92.70.411.00 Report No: 2023829-B005

Ballast type: AC

Test No: 2023829-C005

LampCAT: LUXEON CoB 1205 LES13

Voltage(V): 35.310

Lamp flux(lm): 1852.5 Number of

Current(A): 0.433

Lamps: 1 Length(mm): 0

Power (W): 15.289

Phm Type: C

PF: 0.000

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1743.89, Efficiency(%): 94.14% , Luminous Efficacy(lm/W): 114.06

Central intensity(cd): 8069.393, Maximum intensity(cd): 8069.393

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=19.6

[C90/270]Total=19.6

Field angle(10%Imax): [C0/180]Total=51.4

[C90/270]Total=51.4

Maximum s/h(1/2): C0_180=0.33 C90_270=0.33

Maximum s/h(1/4): C0_180=0.36 C90_270=0.36

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.14%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.917%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8069.392	0.000	0	0.00%	0.00%
1.0	8017.844	7.697	7.697	0.42%	0.44%
2.0	7821.132	22.734	30.431	1.23%	1.75%
3.0	7516.064	36.682	67.113	1.98%	3.85%
4.0	7062.926	48.801	115.913	2.63%	6.65%
5.0	6590.137	58.735	174.648	3.17%	10.01%
6.0	6064.900	66.506	241.153	3.59%	13.83%
7.0	5483.549	71.681	312.834	3.87%	17.94%
8.0	4955.545	74.711	387.545	4.03%	22.22%
9.0	4425.949	76.032	463.577	4.10%	26.58%
10.0	3919.395	75.522	539.099	4.08%	30.91%
11.0	3460.098	73.736	612.836	3.98%	35.14%
12.0	3050.412	71.169	684.005	3.84%	39.22%
13.0	2686.324	68.081	752.085	3.68%	43.13%
14.0	2344.862	64.399	816.484	3.48%	46.82%
15.0	2078.749	60.729	877.213	3.28%	50.30%
16.0	1824.468	57.193	934.406	3.09%	53.58%
17.0	1637.166	53.907	988.313	2.91%	56.67%
18.0	1437.132	50.688	1039.002	2.74%	59.58%
19.0	1317.817	47.930	1086.932	2.59%	62.33%
20.0	1186.145	45.829	1132.762	2.47%	64.96%
21.0	1111.798	44.125	1176.887	2.38%	67.49%
22.0	1043.395	43.310	1220.196	2.34%	69.97%
23.0	965.858	42.160	1262.356	2.28%	72.39%
24.0	901.274	40.822	1303.178	2.20%	74.73%
25.0	841.735	39.632	1342.81	2.14%	77.00%
26.0	788.221	38.475	1381.286	2.08%	79.21%
27.0	732.916	37.215	1418.501	2.01%	81.34%
28.0	667.724	35.461	1453.962	1.91%	83.37%
29.0	602.171	33.224	1487.186	1.79%	85.28%
30.0	527.651	30.505	1517.691	1.65%	87.03%
31.0	460.604	27.502	1545.193	1.48%	88.61%
32.0	392.243	24.433	1569.626	1.32%	90.01%
33.0	324.649	21.120	1590.746	1.14%	91.22%
34.0	271.925	18.054	1608.8	0.97%	92.25%
35.0	220.224	15.284	1624.084	0.83%	93.13%
36.0	172.295	12.498	1636.582	0.67%	93.85%
37.0	116.042	9.404	1645.986	0.51%	94.39%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	79.972	6.543	1652.528	0.35%	94.76%
39.0	61.145	4.817	1657.345	0.26%	95.04%
40.0	50.123	3.881	1661.226	0.21%	95.26%
41.0	44.428	3.367	1664.593	0.18%	95.45%
42.0	40.291	3.078	1667.671	0.17%	95.63%
43.0	36.741	2.853	1670.524	0.15%	95.79%
44.0	33.503	2.651	1673.175	0.14%	95.95%
45.0	31.074	2.482	1675.657	0.13%	96.09%
46.0	29.081	2.353	1678.01	0.13%	96.22%
47.0	27.448	2.248	1680.258	0.12%	96.35%
48.0	26.279	2.172	1682.43	0.12%	96.48%
49.0	25.255	2.116	1684.546	0.11%	96.60%
50.0	24.383	2.070	1686.616	0.11%	96.72%
51.0	23.698	2.034	1688.65	0.11%	96.83%
52.0	23.200	2.012	1690.663	0.11%	96.95%
53.0	22.840	2.003	1692.665	0.11%	97.06%
54.0	22.681	2.006	1694.672	0.11%	97.18%
55.0	22.771	2.029	1696.701	0.11%	97.29%
56.0	23.013	2.069	1698.769	0.11%	97.41%
57.0	23.408	2.122	1700.892	0.11%	97.53%
58.0	23.767	2.182	1703.073	0.12%	97.66%
59.0	23.954	2.231	1705.304	0.12%	97.79%
60.0	23.698	2.251	1707.556	0.12%	97.92%
61.0	22.778	2.218	1709.774	0.12%	98.04%
62.0	21.360	2.127	1711.901	0.11%	98.17%
63.0	19.318	1.978	1713.879	0.11%	98.28%
64.0	17.236	1.794	1715.673	0.10%	98.38%
65.0	15.513	1.621	1717.293	0.09%	98.48%
66.0	14.309	1.488	1718.781	0.08%	98.56%
67.0	13.402	1.393	1720.175	0.08%	98.64%
68.0	12.842	1.329	1721.504	0.07%	98.72%
69.0	12.406	1.288	1722.792	0.07%	98.79%
70.0	11.998	1.253	1724.045	0.07%	98.86%
71.0	11.638	1.222	1725.267	0.07%	98.93%
72.0	11.313	1.193	1726.46	0.06%	99.00%
73.0	10.974	1.165	1727.626	0.06%	99.07%
74.0	10.704	1.140	1728.766	0.06%	99.13%
75.0	10.406	1.115	1729.881	0.06%	99.20%

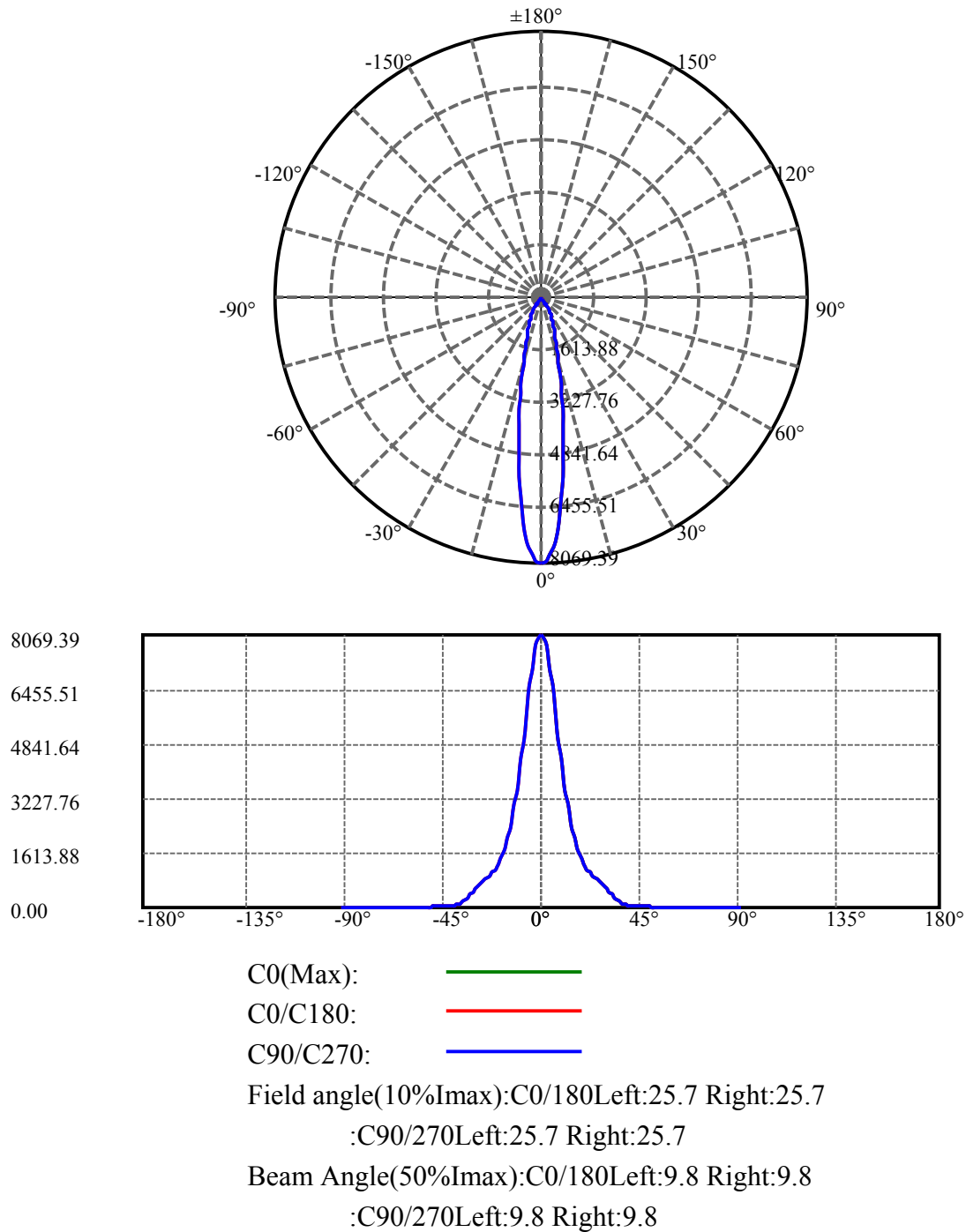
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.150	1.091	1730.972	0.06%	99.26%
77.0	9.888	1.068	1732.041	0.06%	99.32%
78.0	9.652	1.046	1733.087	0.06%	99.38%
79.0	9.410	1.024	1734.111	0.06%	99.44%
80.0	9.175	1.002	1735.113	0.05%	99.50%
81.0	8.905	0.978	1736.09	0.05%	99.55%
82.0	8.635	0.951	1737.042	0.05%	99.61%
83.0	8.407	0.926	1737.968	0.05%	99.66%
84.0	8.151	0.902	1738.87	0.05%	99.71%
85.0	7.964	0.880	1739.75	0.05%	99.76%
86.0	7.777	0.860	1740.61	0.05%	99.81%
87.0	7.618	0.843	1741.453	0.05%	99.86%
88.0	7.445	0.825	1742.278	0.04%	99.91%
89.0	7.314	0.809	1743.087	0.04%	99.95%
90.0	7.265	0.799	1743.886	0.04%	100.00%

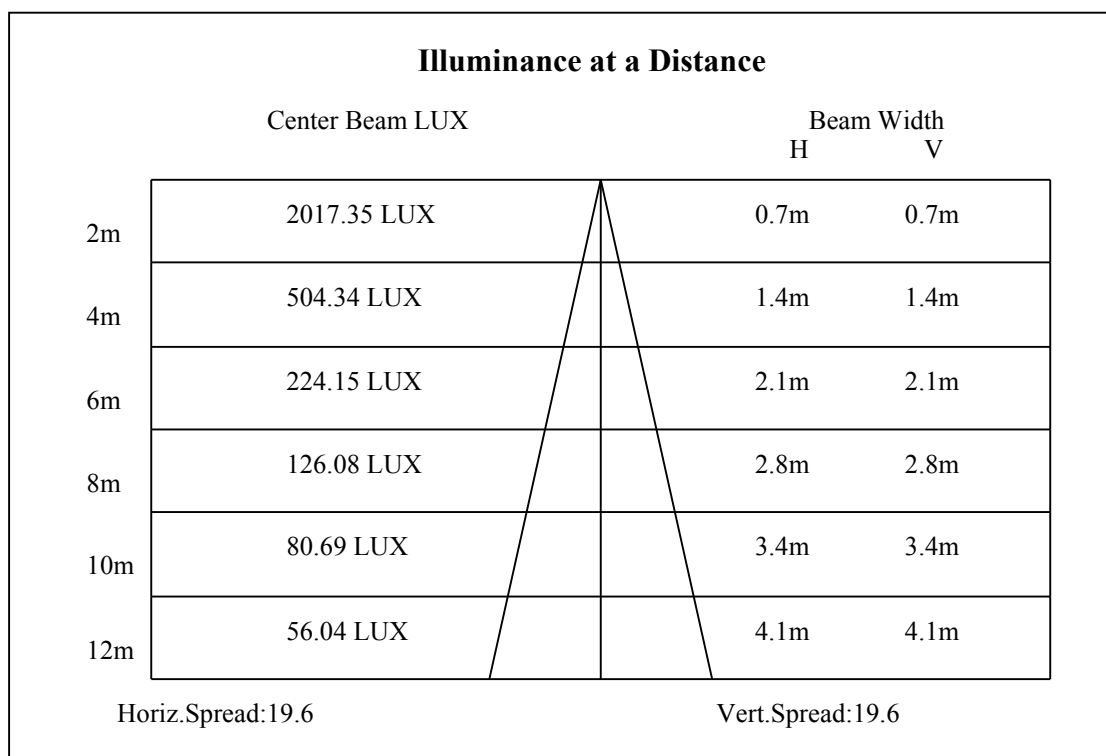
ZONAL LUMEN SUMMARY

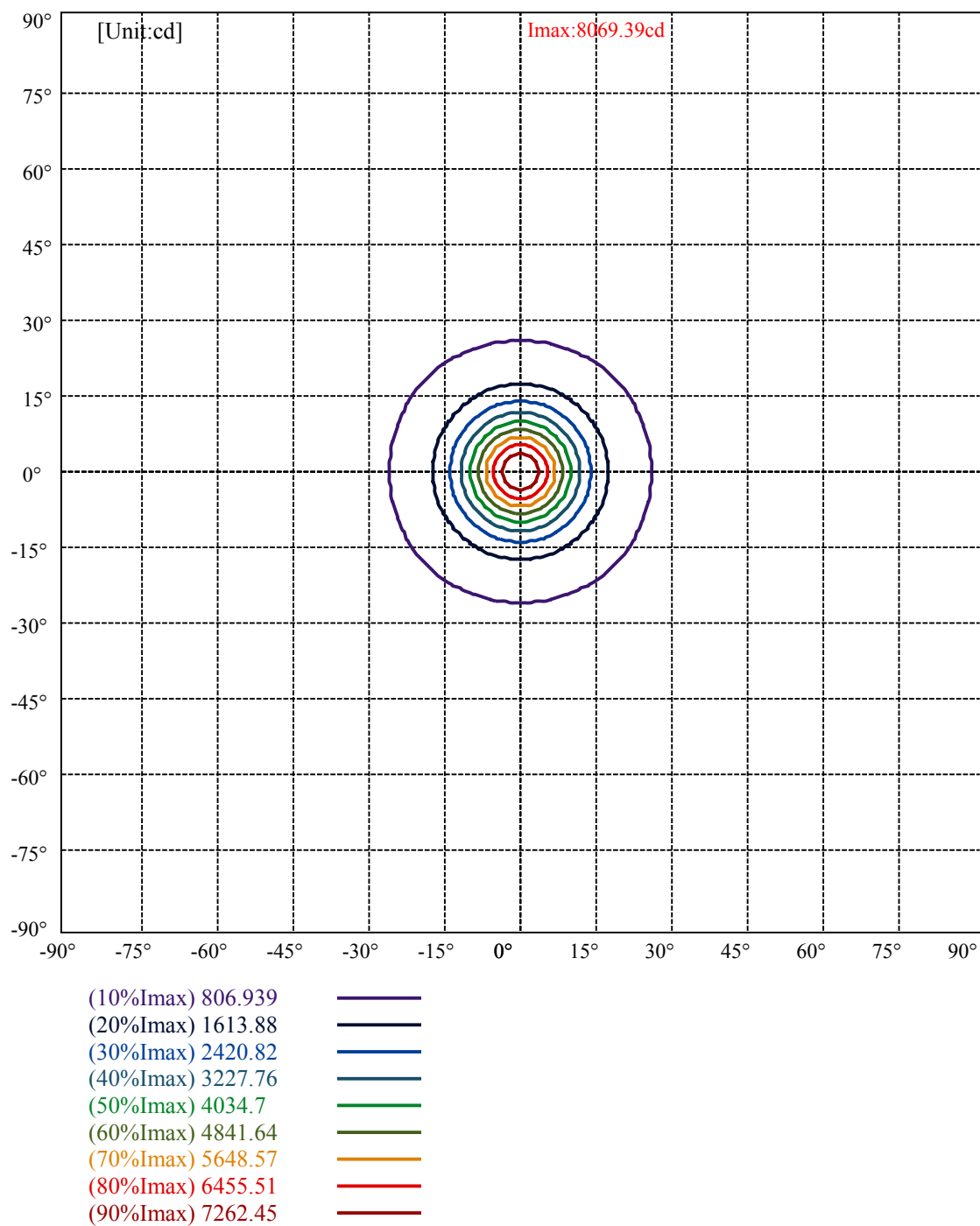
Zone	Lumens	%Lamp	%Fixt
0-30	1517.69	81.93%	87.03%
0-40	1661.23	89.67%	95.26%
0-60	1707.56	92.17%	97.92%
0-90	1743.09	94.09%	99.95%
0-120	1743.09	94.09%	99.95%
0-180	1743.89	94.14%	100.00%
60-90	35.53	1.92%	2.04%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.37	1395.11	75.31%	80.00%

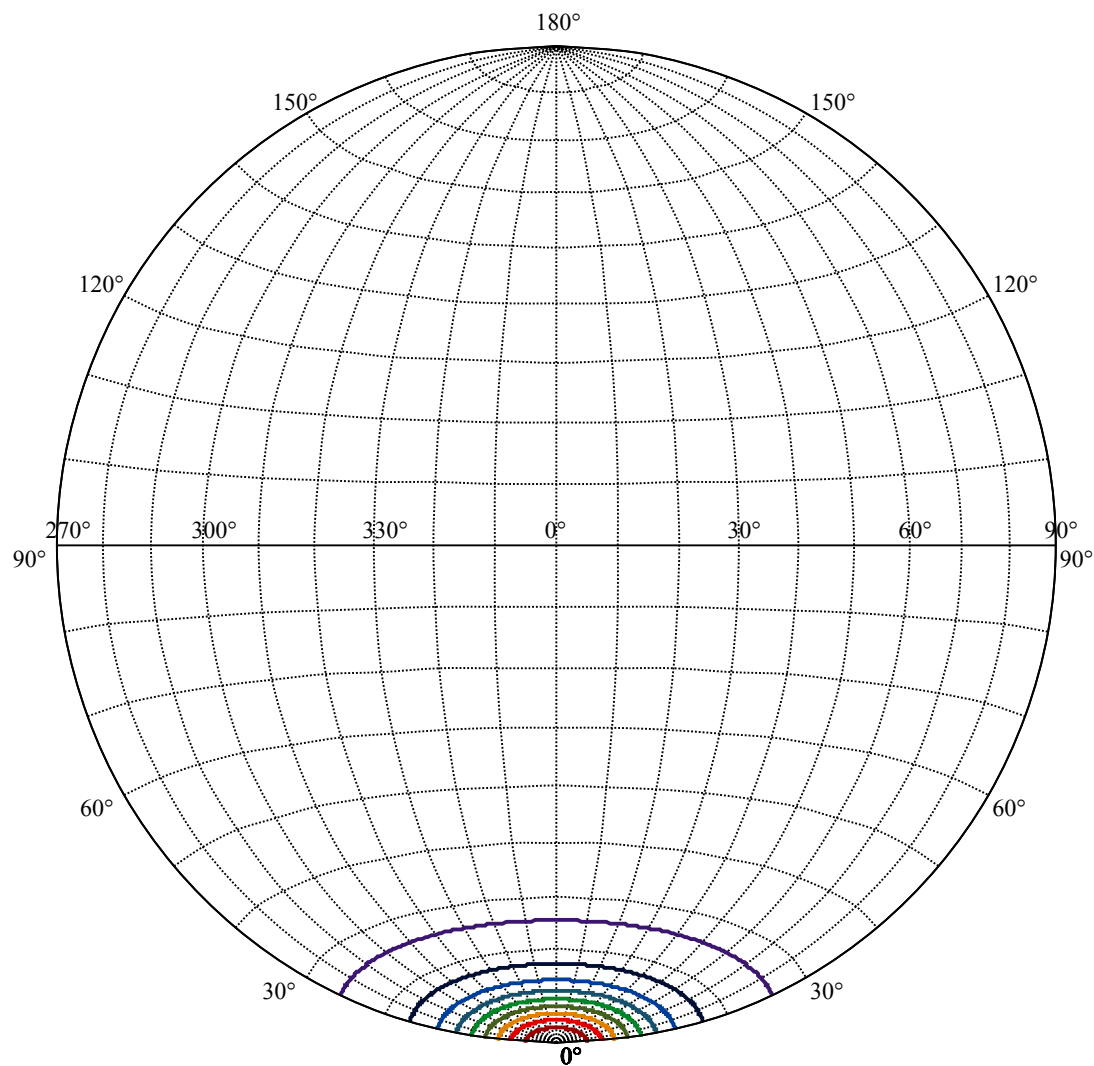
ZONAL LUMEN SUMMARY

0-10	539.10
10-20	593.66
20-30	384.93
30-40	143.53
40-50	25.39
50-60	20.94
60-70	16.49
70-80	11.07
80-90	7.97
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







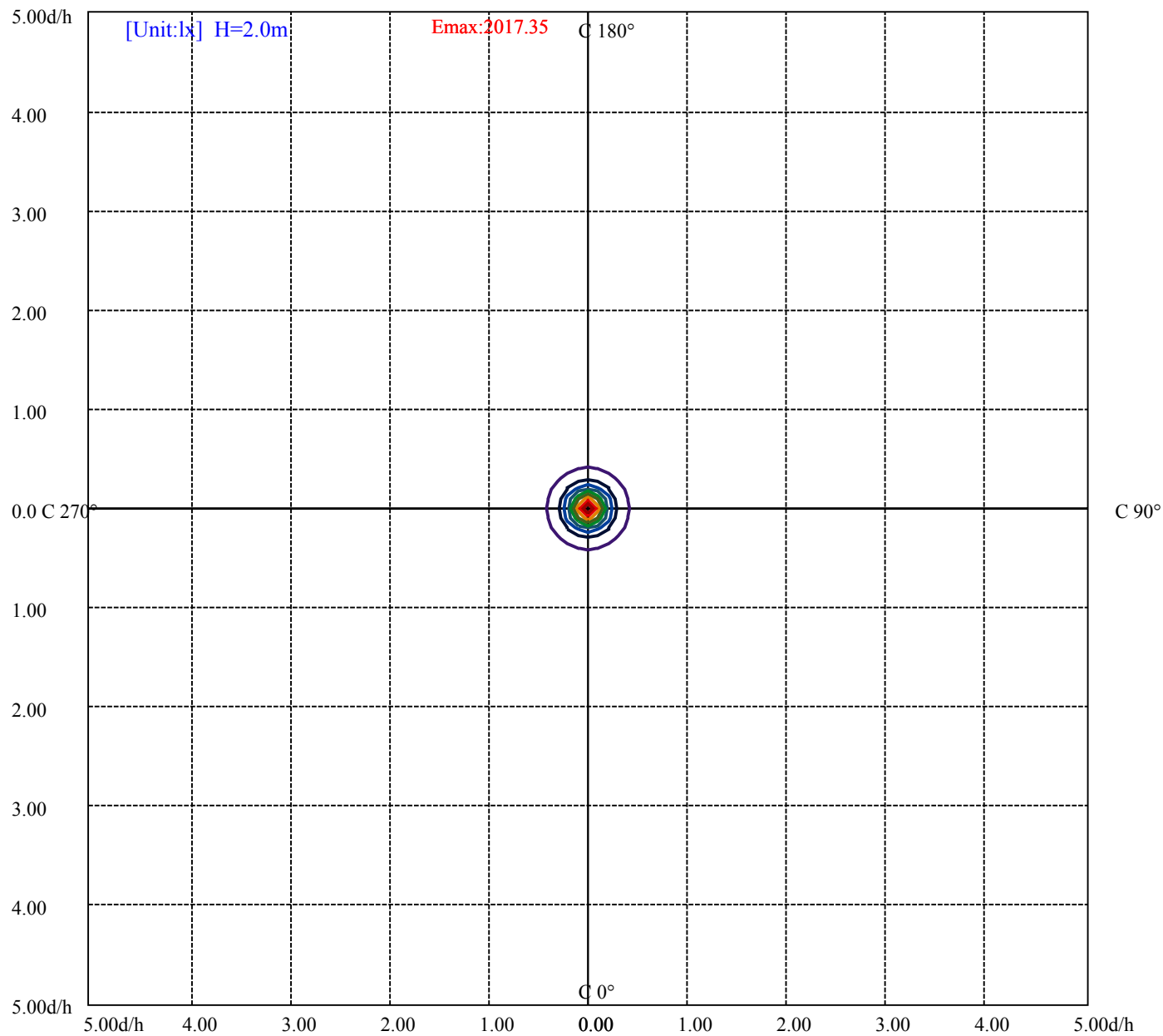


House

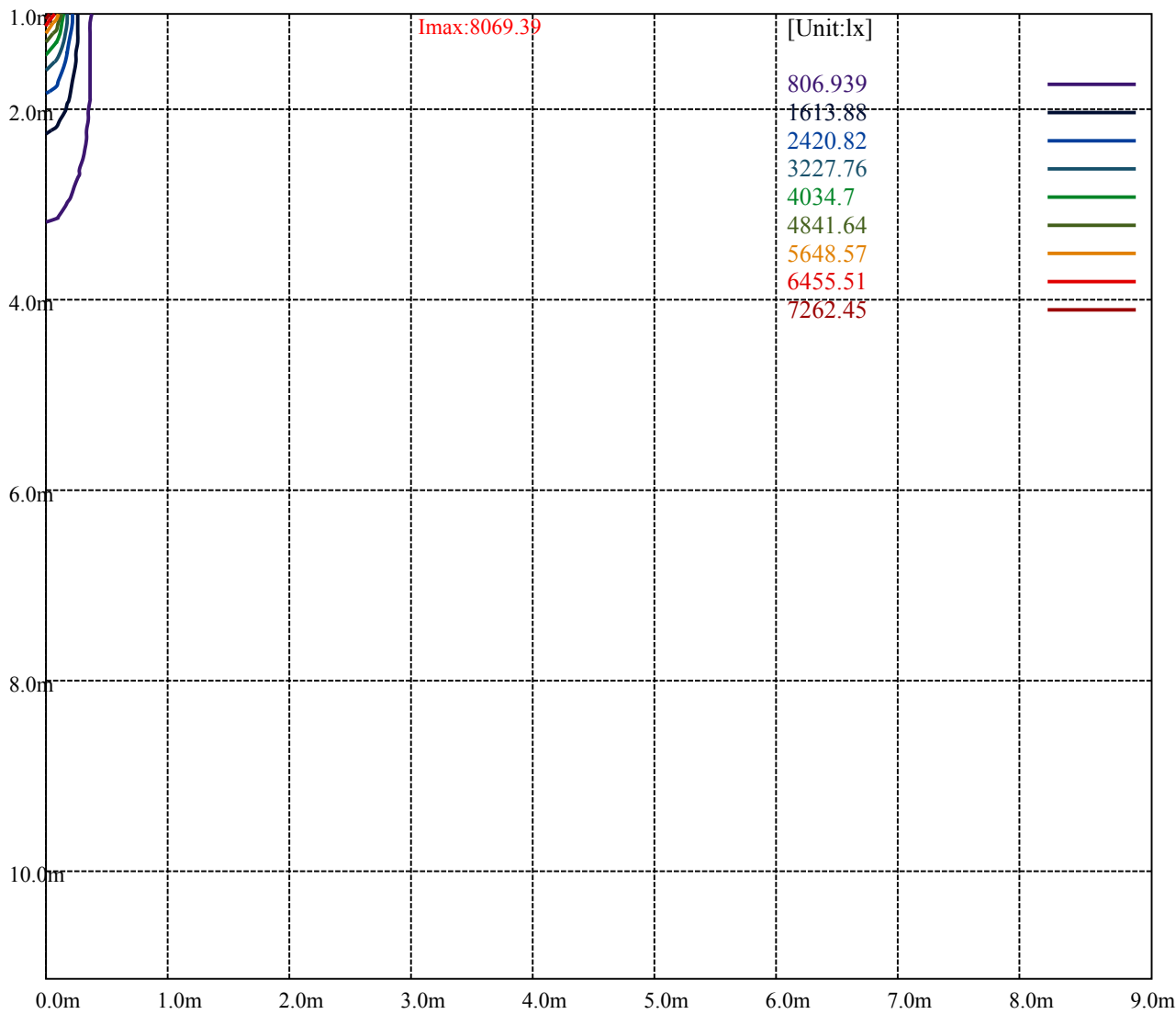
[Unit:cd]

Road

Imax:8069.39	
(10%Imax) 806.939	
(20%Imax) 1613.88	
(30%Imax) 2420.82	
(40%Imax) 3227.76	
(50%Imax) 4034.7	
(60%Imax) 4841.64	
(70%Imax) 5648.57	
(80%Imax) 6455.51	
(90%Imax) 7262.45	



(10%Emax)	201.7345	
(20%Emax)	403.47	
(30%Emax)	605.205	
(40%Emax)	806.9375	
(50%Emax)	1008.672	
(60%Emax)	1210.407	
(70%Emax)	1412.142	
(80%Emax)	1613.877	
(90%Emax)	1815.613	



Luminance Limiting Curve(no luminous side)

Luminance Table

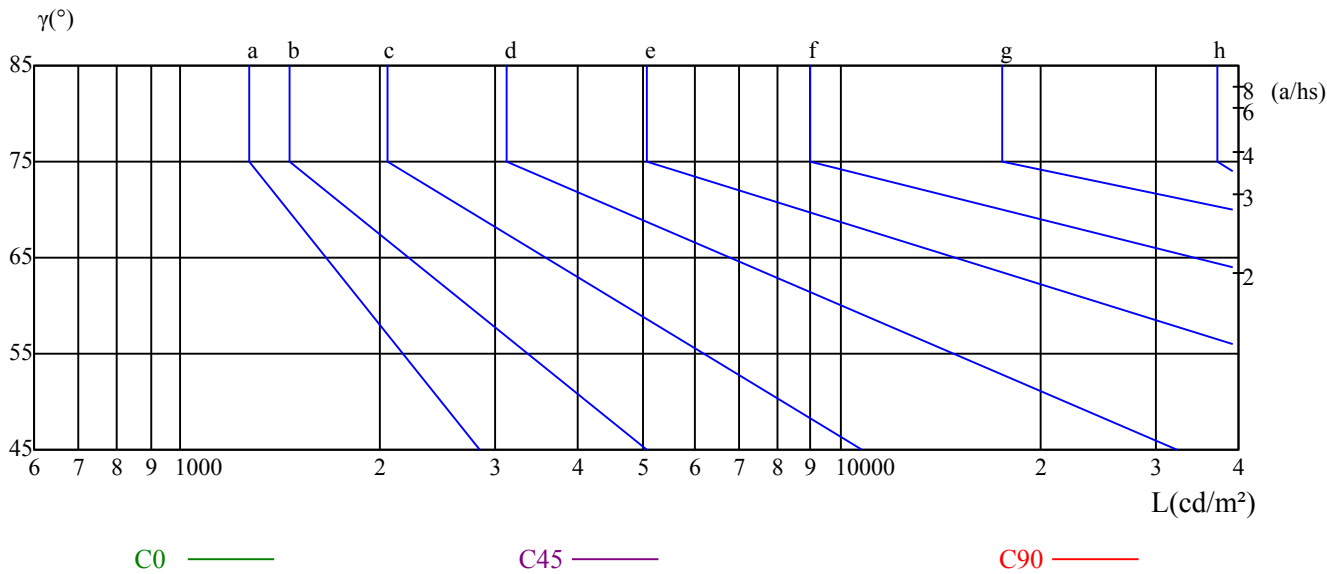
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

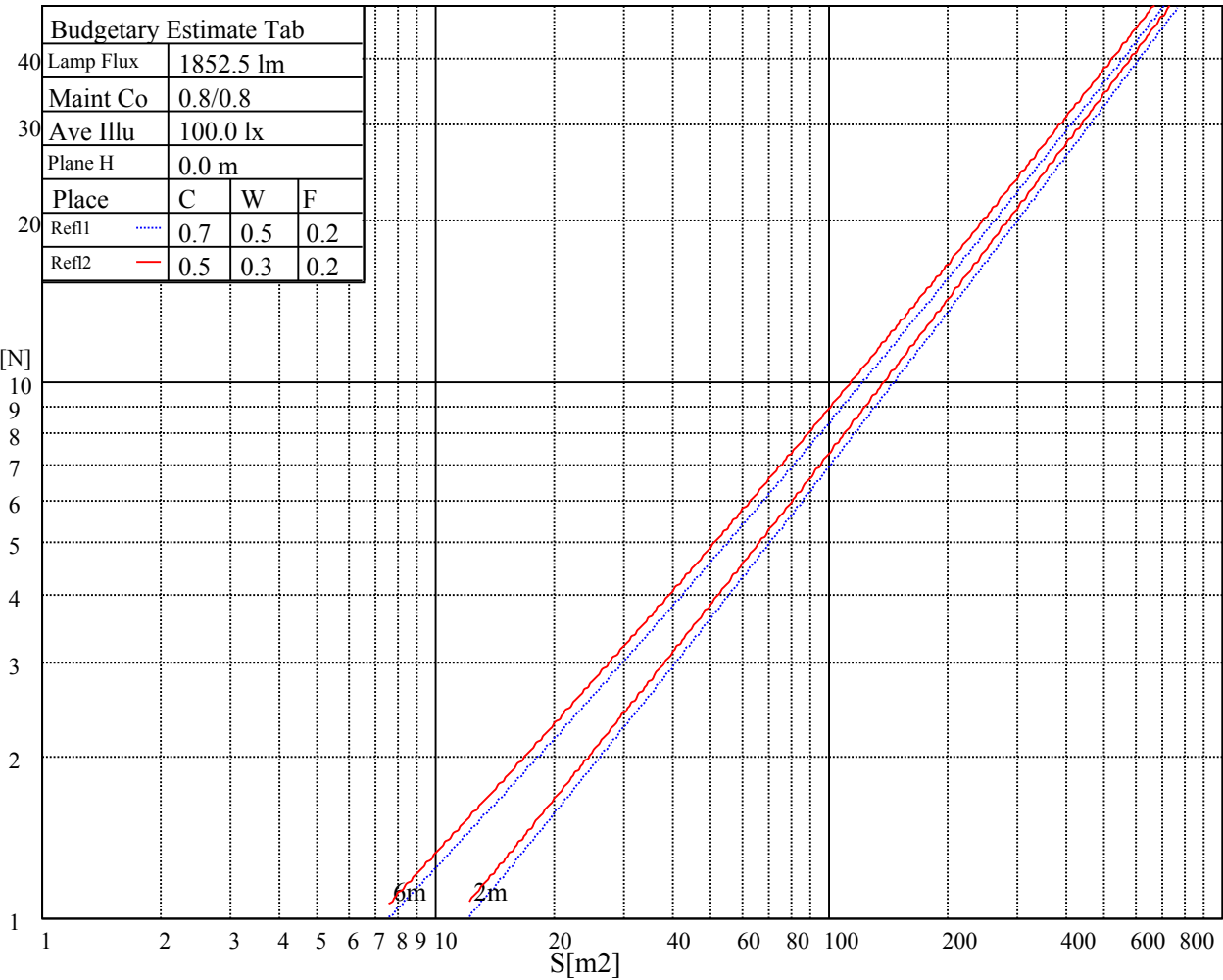
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

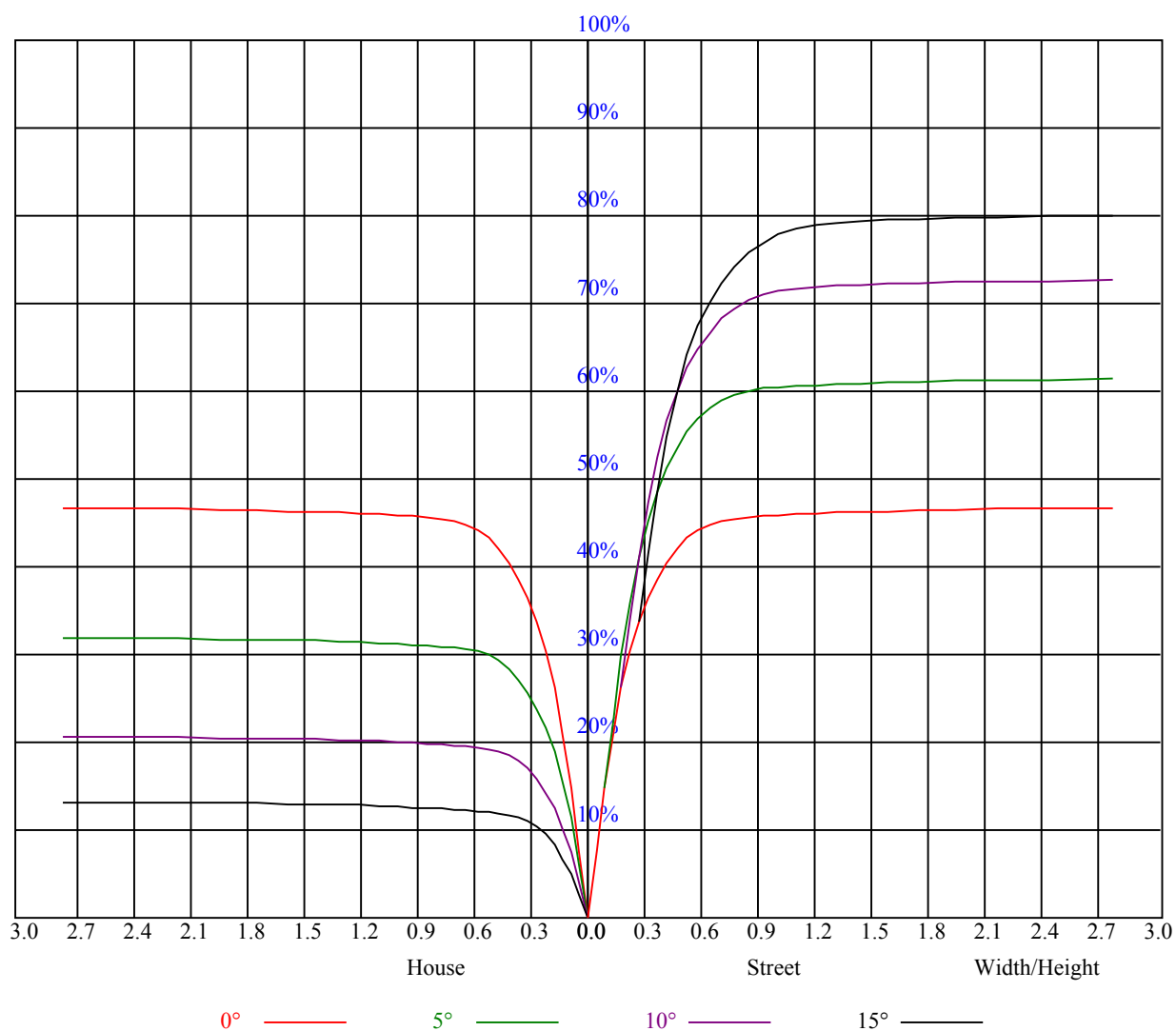


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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



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 RHOF=20 CU															
0	1.12	1.12	1.12	1.09	1.09	1.09	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.81
4	0.90	0.86	0.82	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.86	0.81	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.82	0.78	0.75	0.82	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63



NATA 2-2639-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	7962.56	7707.93	7352.56	6913.61	6317.45	5806.54	5280.68	4768.10	4160.32
45.0	8112.57	8051.68	7846.32	7529.14	6998.85	6498.46	5975.37	5301.71	4783.60
90.0	8073.27	7943.19	7575.64	7182.07	6574.29	6037.36	5514.27	4852.79	4337.45
135.0	8129.17	8133.60	8006.29	7718.45	7256.80	6783.53	6269.85	5592.87	5065.91
180.0	7962.56	8107.59	8123.09	8031.75	7704.06	7350.35	6786.30	6301.40	5765.58
225.0	8112.57	8061.64	7822.52	7515.86	7140.01	6701.05	6079.98	5566.30	5048.19
270.0	8073.27	8117.55	8055.55	7787.09	7461.06	7073.58	6626.32	6032.93	5534.75
315.0	8129.17	8019.57	7787.09	7450.54	7050.89	6470.23	5986.44	5452.27	4948.56
360.0	7962.56	7707.93	7352.56	6913.61	6317.45	5806.54	5280.68	4768.10	4160.32
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3724.13	3320.61	2857.85	2529.60	2173.13	1932.89	1715.91	1539.88	1366.63
45.0	4285.42	3837.06	3436.30	2963.02	2619.83	2308.19	2043.05	1751.33	1570.88
90.0	3896.84	3369.87	2991.81	2639.20	2330.88	2006.51	1771.81	1579.74	1431.94
135.0	4428.79	3961.60	3549.22	3066.53	2719.47	2406.17	2127.74	1829.38	1644.50
180.0	5244.14	4597.06	4107.74	3665.46	3272.45	2827.96	2501.93	2217.41	1983.82
225.0	4527.32	3928.39	3504.38	3118.01	2682.93	2381.81	2117.22	1844.88	1658.34
270.0	5010.00	4507.94	3917.32	3487.77	3091.44	2656.36	2354.69	2040.83	1823.85
315.0	4290.96	3832.63	3316.18	2933.69	2600.46	2239.00	1997.66	1792.29	1617.38
360.0	3724.13	3320.61	2857.85	2529.60	2173.13	1932.89	1715.91	1539.88	1366.63
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1092.07	1092.07	1072.09	980.48	915.38	859.64	809.99	753.86	698.45
45.0	1390.43	1269.20	1169.57	1067.16	991.33	924.35	854.05	802.02	755.52
90.0	1207.21	1089.08	1072.20	995.81	928.28	854.49	802.02	758.62	706.48
135.0	1490.62	1364.41	1258.13	1144.10	1066.05	974.17	912.73	843.53	792.61
180.0	1728.64	1562.02	1386.00	1276.40	1178.98	1080.45	1005.72	937.63	862.91
225.0	1509.44	1354.45	1097.27	1097.27	1075.96	989.50	924.74	869.05	819.18
270.0	1640.07	1496.15	1341.16	1240.42	1151.85	1074.91	989.67	922.69	869.00
315.0	1438.58	1315.15	1092.74	1092.74	1039.32	969.35	911.29	846.47	801.63
360.0	1092.07	1092.07	1072.09	980.48	915.38	859.64	809.99	753.86	698.45
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	636.62	555.14	489.77	410.34	348.62	289.17	221.08	170.27	125.10
45.0	706.81	626.55	562.89	502.00	436.68	359.19	299.96	285.57	217.10
90.0	630.70	568.54	503.61	440.73	362.95	303.67	244.83	193.13	135.78
135.0	741.13	682.45	598.87	534.66	469.34	403.47	328.19	284.46	284.46
180.0	814.20	765.48	710.13	629.32	561.78	493.70	426.72	348.12	289.44
225.0	758.79	702.88	637.84	555.20	489.55	406.24	340.87	281.69	212.78
270.0	823.05	762.16	702.38	622.67	556.25	487.61	403.47	338.71	292.77
315.0	752.03	678.58	611.88	526.30	459.66	394.89	332.07	273.45	204.37
360.0	636.62	555.14	489.77	410.34	348.62	289.17	221.08	170.27	125.10
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	88.84	59.23	50.21	45.67	41.57	37.59	34.60	31.88	29.72
45.0	131.30	92.77	62.11	51.64	46.66	41.63	38.36	35.43	32.71
90.0	98.58	66.04	53.80	48.71	43.29	39.52	36.48	33.71	30.83
135.0	159.92	106.33	77.94	61.06	51.92	46.94	41.63	38.03	34.98
180.0	289.44	221.03	124.16	89.06	61.94	52.86	48.16	42.57	38.97
225.0	164.57	121.11	83.92	62.16	50.54	45.83	41.35	37.81	33.99
270.0	292.77	153.22	111.04	77.44	57.46	47.99	43.51	39.36	35.20
315.0	152.94	108.60	76.61	53.42	47.60	43.07	38.25	35.15	31.61
360.0	88.84	59.23	50.21	45.67	41.57	37.59	34.60	31.88	29.72

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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	27.62	26.40	25.08	24.19	23.47	22.81	22.42	22.20	22.14
45.0	30.11	28.34	27.07	25.91	24.74	23.91	23.30	22.69	22.42
90.0	29.12	27.73	26.57	25.46	24.58	23.86	23.25	22.92	22.69
135.0	32.33	29.84	28.34	27.07	25.96	24.85	24.13	23.58	23.03
180.0	35.87	33.16	30.50	28.89	27.57	26.51	25.46	24.69	24.08
225.0	31.55	29.12	27.62	26.57	25.41	24.58	23.91	23.30	22.92
270.0	32.38	30.11	27.95	26.68	25.68	24.63	23.91	23.41	22.86
315.0	29.61	27.95	26.46	25.46	24.63	23.91	23.19	22.81	22.58
360.0	27.62	26.40	25.08	24.19	23.47	22.81	22.42	22.20	22.14

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.31	22.69	23.03	23.30	23.47	22.97	21.98	20.15	17.99
45.0	22.20	22.36	22.58	22.97	23.30	23.53	23.25	21.86	20.43
90.0	22.75	22.86	23.25	23.64	23.80	23.58	22.64	21.31	19.48
135.0	22.81	22.81	22.97	23.36	23.58	23.97	23.86	23.30	21.64
180.0	23.58	23.36	23.25	23.41	23.80	24.08	24.63	24.58	24.02
225.0	22.75	22.75	23.08	23.64	24.08	24.41	24.19	23.53	22.20
270.0	22.64	22.64	22.86	23.36	23.97	24.52	24.74	24.30	23.47
315.0	22.42	22.69	23.08	23.58	24.13	24.58	24.30	23.19	21.64
360.0	22.31	22.69	23.03	23.30	23.47	22.97	21.98	20.15	17.99

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.72	14.45	13.56	13.01	12.45	12.12	11.79	11.46	11.13
45.0	18.60	16.72	14.72	13.84	13.12	12.62	12.23	11.90	11.51
90.0	17.66	15.33	14.34	13.45	12.79	12.40	12.01	11.57	11.29
135.0	19.82	17.66	15.89	14.67	13.51	12.95	12.51	12.07	11.68
180.0	22.86	20.37	18.32	16.33	14.78	13.78	13.23	12.68	12.29
225.0	19.60	17.44	15.11	14.12	13.34	12.84	12.34	12.01	11.68
270.0	21.48	19.15	17.10	14.95	13.89	13.23	12.73	12.23	11.85
315.0	18.82	16.77	15.06	14.12	13.34	12.79	12.40	12.07	11.68
360.0	15.72	14.45	13.56	13.01	12.45	12.12	11.79	11.46	11.13

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.85	10.57	10.35	10.07	9.85	9.58	9.35	9.13	8.86
45.0	11.24	10.90	10.57	10.35	10.13	9.91	9.63	9.41	9.19
90.0	11.02	10.68	10.41	10.13	9.91	9.63	9.41	9.19	8.97
135.0	11.29	10.96	10.74	10.41	10.13	9.96	9.74	9.47	9.24
180.0	11.90	11.46	11.18	10.90	10.52	10.30	10.02	9.80	9.52
225.0	11.35	10.96	10.74	10.41	10.19	9.85	9.63	9.35	9.13
270.0	11.57	11.24	10.90	10.57	10.35	10.02	9.80	9.58	9.35
315.0	11.29	11.02	10.74	10.41	10.13	9.85	9.63	9.35	9.13
360.0	10.85	10.57	10.35	10.07	9.85	9.58	9.35	9.13	8.86

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.58	8.36	8.19	7.92	7.80	7.58	7.47	7.31	7.31
45.0	8.86	8.64	8.36	8.08	7.92	7.75	7.58	7.36	7.25
90.0	8.69	8.41	8.19	7.97	7.80	7.58	7.47	7.31	7.25
135.0	8.97	8.69	8.41	8.14	7.97	7.80	7.64	7.47	7.25
180.0	9.24	8.97	8.69	8.41	8.25	8.03	7.86	7.69	7.53
225.0	8.91	8.64	8.41	8.19	7.97	7.80	7.64	7.47	7.31
270.0	9.13	8.80	8.58	8.36	8.08	7.92	7.69	7.53	7.36
315.0	8.86	8.58	8.41	8.14	7.92	7.75	7.58	7.42	7.25
360.0	8.58	8.36	8.19	7.92	7.80	7.58	7.47	7.31	7.31

Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	7.31
45.0	7.25
90.0	7.25
135.0	7.25
180.0	7.31
225.0	7.25
270.0	7.25
315.0	7.25
360.0	7.31