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Nata

LumCAT: 1653-N	
Luminaire: 92.70.043.00	
Report No: NATA0100	Voltage(V): 37.3000
Test No: GC2018092609	Current(A): 0.2100
LampCAT: CITIZEN CLU7A2-1201C9	Power (W): 7.8330
Lamp flux(lm): 762.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 32	Width(mm): 32
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 656.07
Efficiency(%): 86.10%
Lumens(lm)/Power(W): 83.99
Central intensity(cd): 7644.937
Maximum intensity(cd): 7644.937
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=11.7
 [C90/270]Total=11.7
Field angle(10%Imax): [C0/180]Total=23.4
 [C90/270]Total=23.4
Maximum s/h(1/2): C0_180=0.20 C90_270=0.20
Maximum s/h(1/4): C0_180=0.21 C90_270=0.21
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.33%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.002%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7644.938	1.829	1.829	.240%	.279%
1.0	7497.844	14.350	16.179	1.883%	2.466%
2.0	7009.664	26.827	43.005	3.521%	6.555%
3.0	6349.641	36.442	79.447	4.782%	12.110%
4.0	5577.047	42.662	122.109	5.599%	18.612%
5.0	4628.531	44.238	166.347	5.805%	25.355%
6.0	3706.805	42.490	208.837	5.576%	31.832%
7.0	2902.781	38.794	247.63	5.091%	37.745%
8.0	2155.078	32.890	280.521	4.316%	42.758%
9.0	1532.918	26.297	306.818	3.451%	46.766%
10.0	1175.505	22.384	329.202	2.938%	50.178%
11.0	896.801	18.765	347.967	2.463%	53.038%
12.0	706.148	16.100	364.067	2.113%	55.492%
13.0	565.376	13.947	378.014	1.830%	57.618%
14.0	474.068	12.577	390.591	1.650%	59.535%
15.0	416.306	11.816	402.406	1.551%	61.336%
16.0	375.954	11.364	413.77	1.491%	63.068%
17.0	342.415	10.978	424.749	1.441%	64.742%
18.0	321.497	10.895	435.643	1.430%	66.402%
19.0	306.598	10.946	446.589	1.437%	68.071%
20.0	293.168	10.996	457.585	1.443%	69.747%
21.0	283.739	11.151	468.736	1.463%	71.446%
22.0	275.892	11.334	480.069	1.487%	73.174%
23.0	269.571	11.551	491.62	1.516%	74.934%
24.0	263.609	11.758	503.378	1.543%	76.727%
25.0	259.523	12.028	515.405	1.578%	78.560%
26.0	253.877	12.204	527.61	1.602%	80.420%
27.0	248.913	12.392	540.002	1.626%	82.309%
28.0	244.153	12.570	552.571	1.650%	84.225%
29.0	238.788	12.695	565.266	1.666%	86.160%
30.0	231.820	12.711	577.977	1.668%	88.097%
31.0	217.441	12.281	590.258	1.612%	89.969%
32.0	191.559	11.132	601.39	1.461%	91.666%
33.0	159.173	9.507	610.897	1.248%	93.115%
34.0	125.290	7.683	618.58	1.008%	94.286%
35.0	87.307	5.492	624.071	.721%	95.123%
36.0	54.605	3.520	627.591	.462%	95.660%
37.0	32.632	2.154	629.744	.283%	95.988%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	19.406	1.310	631.055	.172%	96.188%
39.0	13.978	0.965	632.019	.127%	96.335%
40.0	12.762	0.900	632.919	.118%	96.472%
41.0	11.644	0.838	633.757	.110%	96.599%
42.0	10.280	0.754	634.511	.099%	96.714%
43.0	8.979	0.672	635.182	.088%	96.817%
44.0	8.107	0.618	635.8	.081%	96.911%
45.0	7.664	0.594	636.394	.078%	97.001%
46.0	7.439	0.587	636.981	.077%	97.091%
47.0	7.221	0.579	637.56	.076%	97.179%
48.0	7.102	0.579	638.139	.076%	97.267%
49.0	7.010	0.580	638.719	.076%	97.356%
50.0	6.870	0.577	639.296	.076%	97.444%
51.0	6.757	0.576	639.872	.076%	97.532%
52.0	6.645	0.574	640.446	.075%	97.619%
53.0	6.427	0.563	641.009	.074%	97.705%
54.0	6.223	0.552	641.561	.072%	97.789%
55.0	6.173	0.555	642.116	.073%	97.874%
56.0	5.948	0.541	642.656	.071%	97.956%
57.0	5.716	0.526	643.182	.069%	98.036%
58.0	5.597	0.520	643.703	.068%	98.115%
59.0	5.484	0.516	644.218	.068%	98.194%
60.0	5.351	0.508	644.726	.067%	98.271%
61.0	5.351	0.513	645.24	.067%	98.350%
62.0	5.295	0.513	645.752	.067%	98.428%
63.0	5.063	0.495	646.247	.065%	98.503%
64.0	4.873	0.480	646.727	.063%	98.576%
65.0	4.711	0.468	647.195	.061%	98.648%
66.0	4.430	0.444	647.639	.058%	98.715%
67.0	4.205	0.424	648.064	.056%	98.780%
68.0	4.008	0.407	648.471	.053%	98.842%
69.0	3.853	0.394	648.866	.052%	98.902%
70.0	3.677	0.379	649.244	.050%	98.960%
71.0	3.607	0.374	649.618	.049%	99.017%
72.0	3.544	0.370	649.988	.049%	99.073%
73.0	3.509	0.368	650.356	.048%	99.130%
74.0	3.473	0.366	650.722	.048%	99.185%
75.0	3.431	0.363	651.086	.048%	99.241%

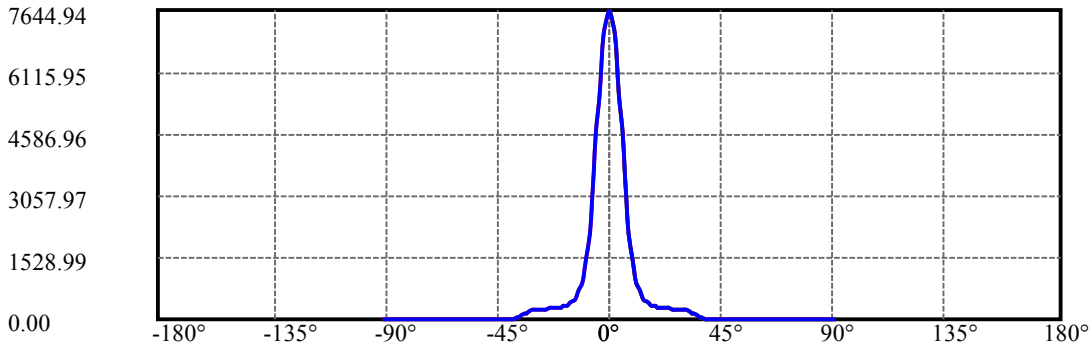
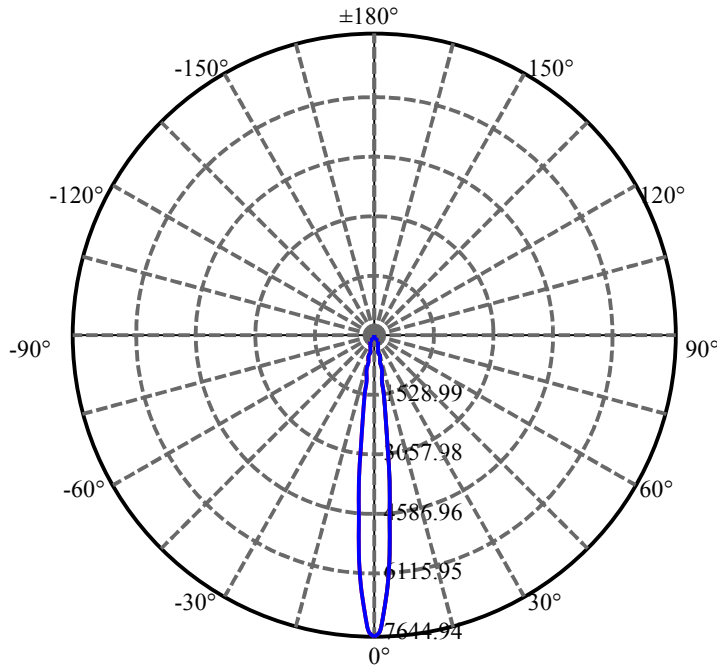
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.382	0.360	651.445	.047%	99.296%
77.0	3.361	0.359	651.805	.047%	99.350%
78.0	3.326	0.357	652.161	.047%	99.405%
79.0	3.284	0.353	652.515	.046%	99.459%
80.0	3.220	0.348	652.863	.046%	99.512%
81.0	3.199	0.347	653.209	.045%	99.564%
82.0	3.171	0.344	653.553	.045%	99.617%
83.0	3.164	0.344	653.898	.045%	99.669%
84.0	3.171	0.346	654.244	.045%	99.722%
85.0	3.185	0.348	654.592	.046%	99.775%
86.0	3.213	0.352	654.943	.046%	99.829%
87.0	2.960	0.324	655.267	.043%	99.878%
88.0	2.932	0.321	655.589	.042%	99.927%
89.0	2.918	0.320	655.909	.042%	99.976%
90.0	2.883	0.158	656.067	.021%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	577.98	75.85%	88.10%
0-40	632.92	83.06%	96.47%
0-60	644.73	84.61%	98.27%
0-90	655.91	86.08%	99.98%
0-120	655.91	86.08%	99.98%
0-180	656.07	86.10%	100.00%
60-90	11.69	1.53%	1.78%
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%
0-25.77	524.85	68.88%	80.00%

ZONAL LUMEN SUMMARY

0-10	329.20
10-20	128.38
20-30	120.39
30-40	54.94
40-50	6.38
50-60	5.43
60-70	4.52
70-80	3.62
80-90	3.05
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



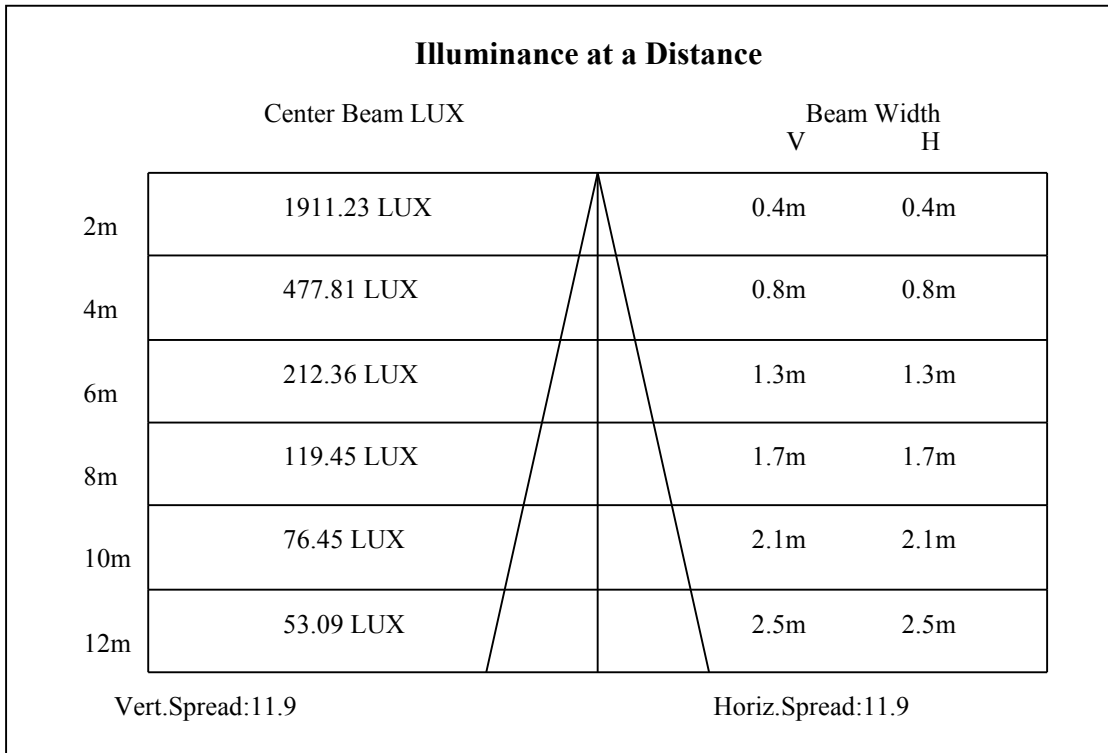
C0(Max): —————

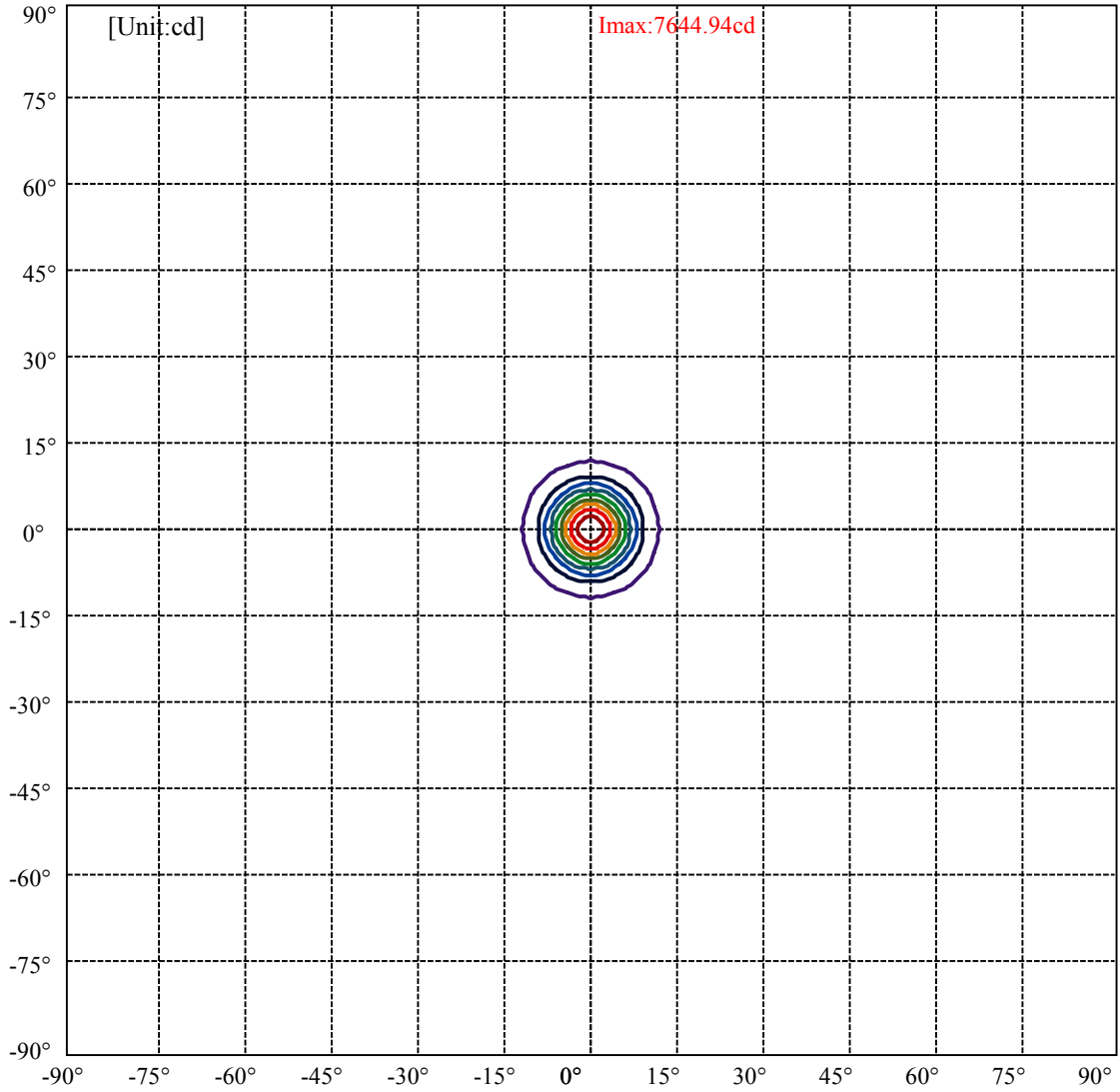
C0/C180: —————

C90/C270: —————

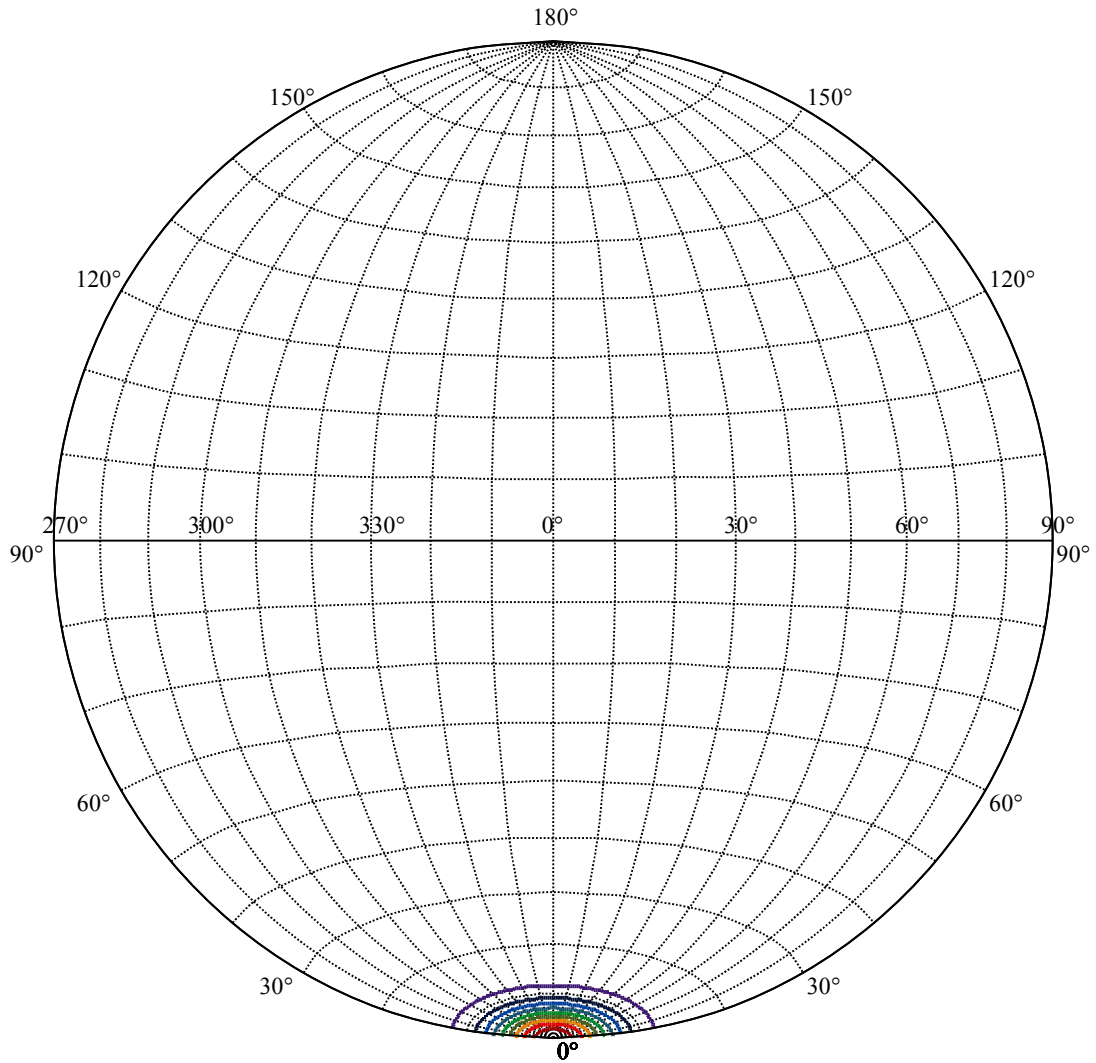
Field angle(10%Imax):C0/180Left:11.7 Right:11.7
:C90/270Left:11.7 Right:11.7

Beam Angle(50%Imax):C0/180Left:5.9 Right:5.9
:C90/270Left:5.9 Right:5.9





(10%Imax) 764.494	—
(20%Imax) 1528.99	—
(30%Imax) 2293.48	—
(40%Imax) 3057.97	—
(50%Imax) 3822.47	—
(60%Imax) 4586.96	—
(70%Imax) 5351.46	—
(80%Imax) 6115.95	—
(90%Imax) 6880.44	—



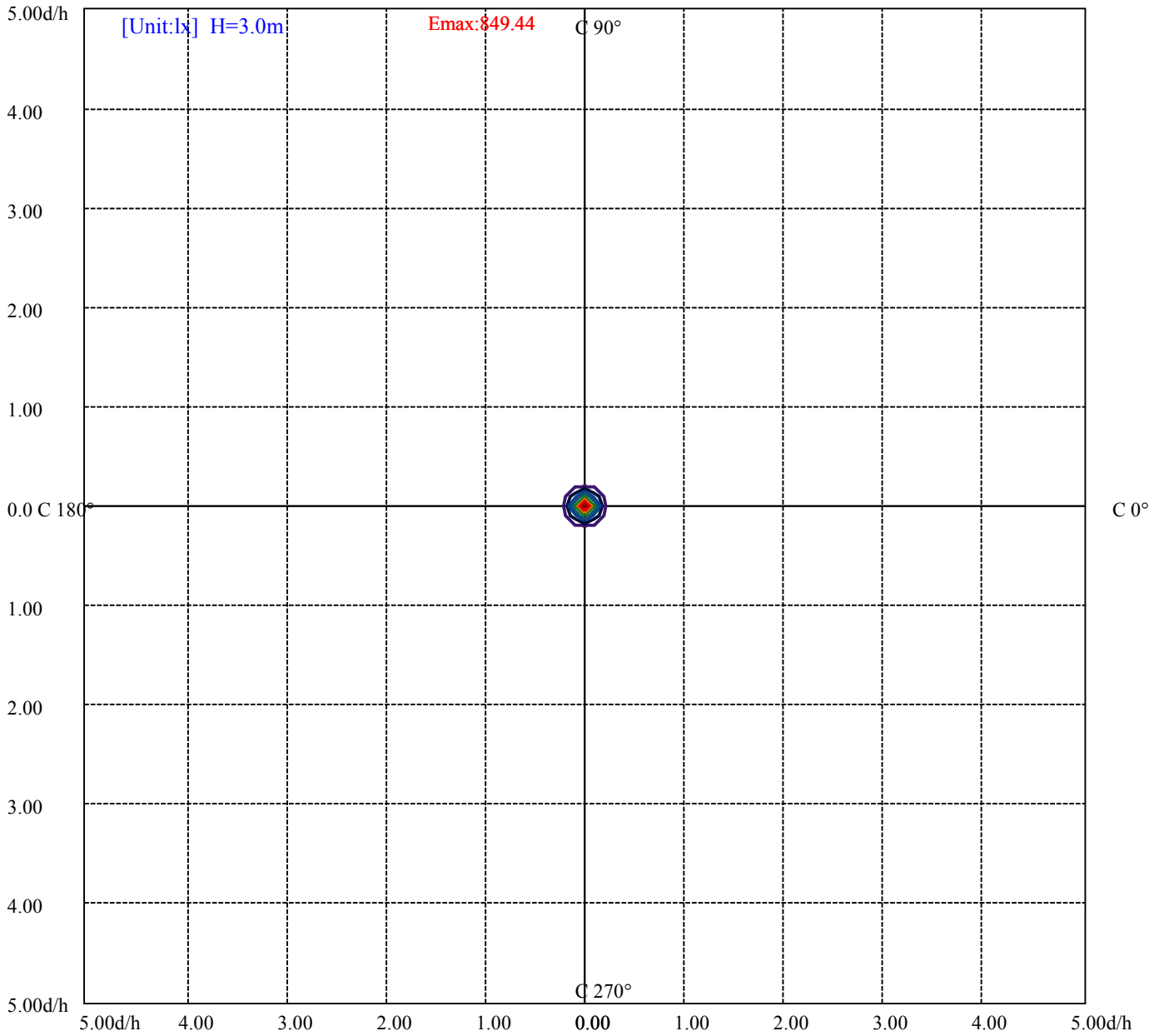
House

[Unit:cd]

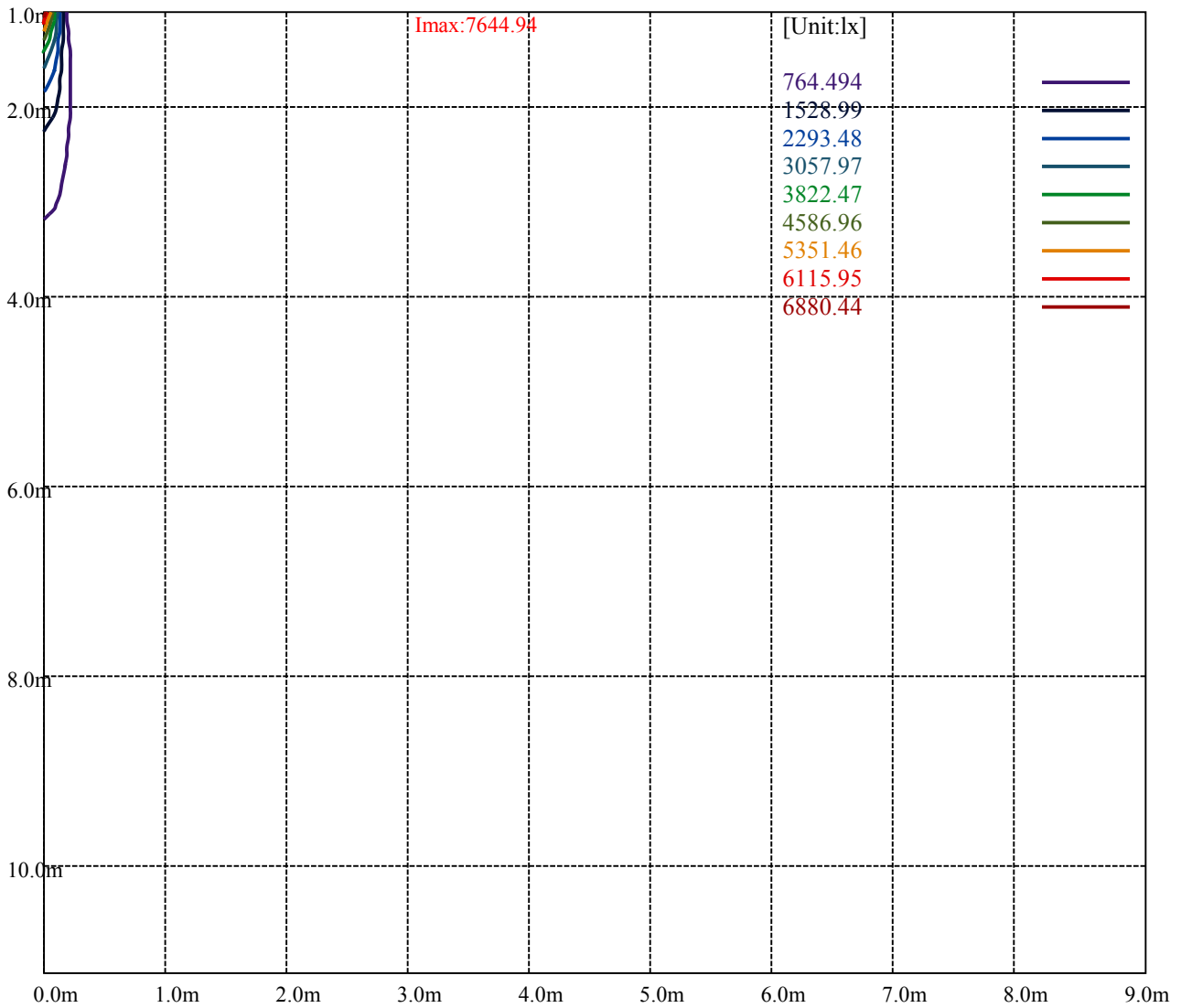
Road

Imax:7644.94

(10%Imax) 764.494	—
(20%Imax) 1528.99	—
(30%Imax) 2293.48	—
(40%Imax) 3057.97	—
(50%Imax) 3822.47	—
(60%Imax) 4586.96	—
(70%Imax) 5351.46	—
(80%Imax) 6115.95	—
(90%Imax) 6880.44	—



(10%Emax) 84.94356	—
(20%Emax) 169.8867	—
(30%Emax) 254.83	—
(40%Emax) 339.7744	—
(50%Emax) 424.7178	—
(60%Emax) 509.6611	—
(70%Emax) 594.6044	—
(80%Emax) 679.5478	—
(90%Emax) 764.4911	—



Luminance Table

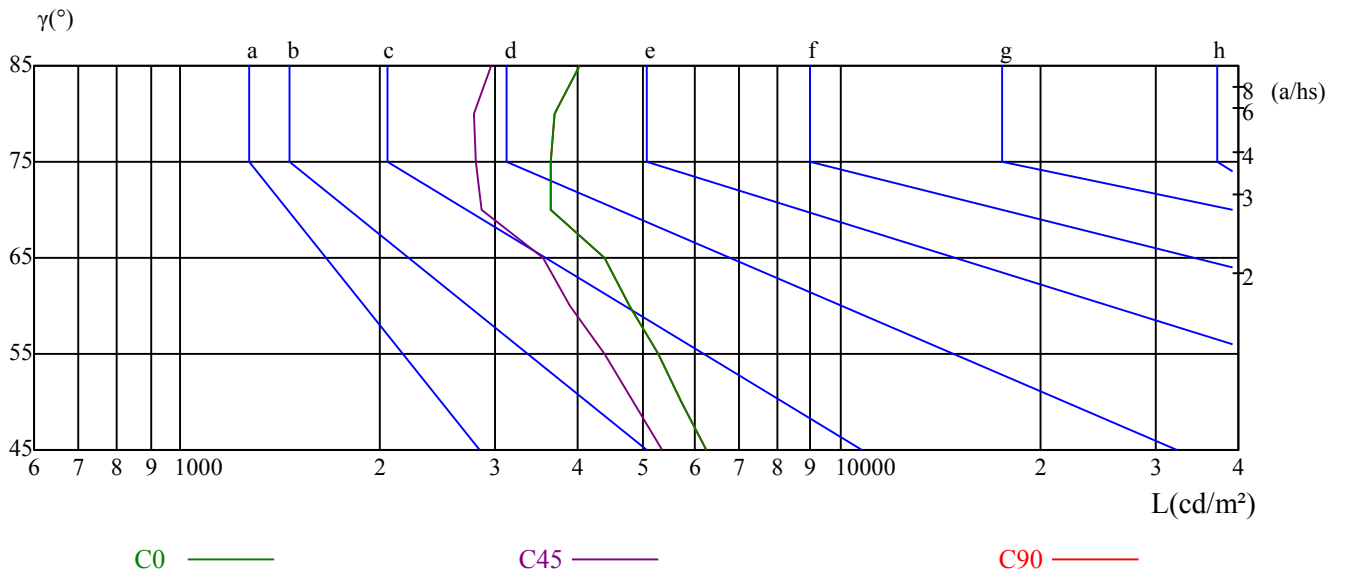
γ	45	50	55	60	65	70	75	80	85
C0	6272	5737	5304	4770	4399	3635	3631	3697	4029
C45	5367	4835	4400	3894	3529	2860	2797	2780	2946
C90	6272	5737	5304	4770	4399	3635	3631	3697	4029

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10886	10886	10886	12947	12947	12947	35689	35689	35689

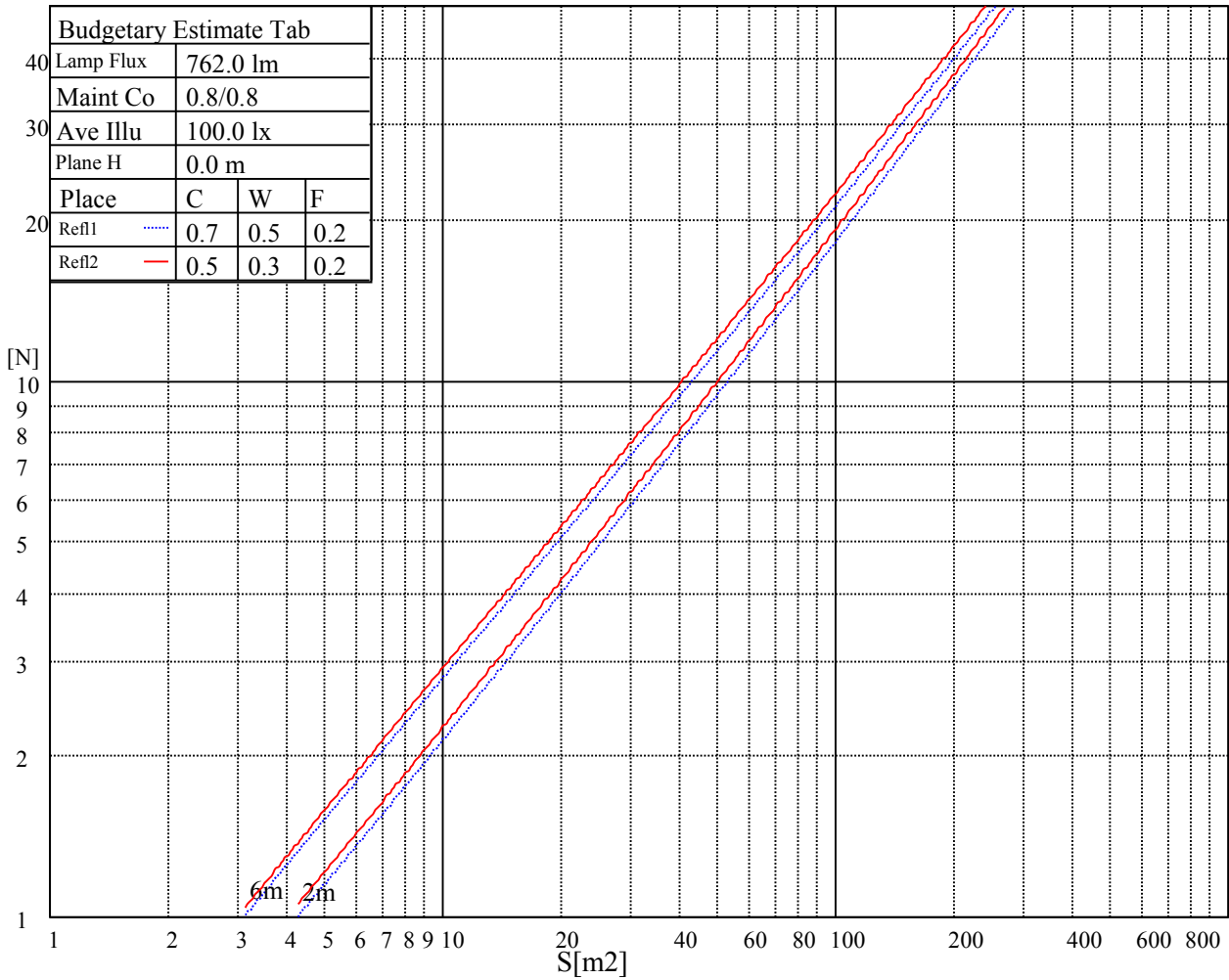
Glare Table

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

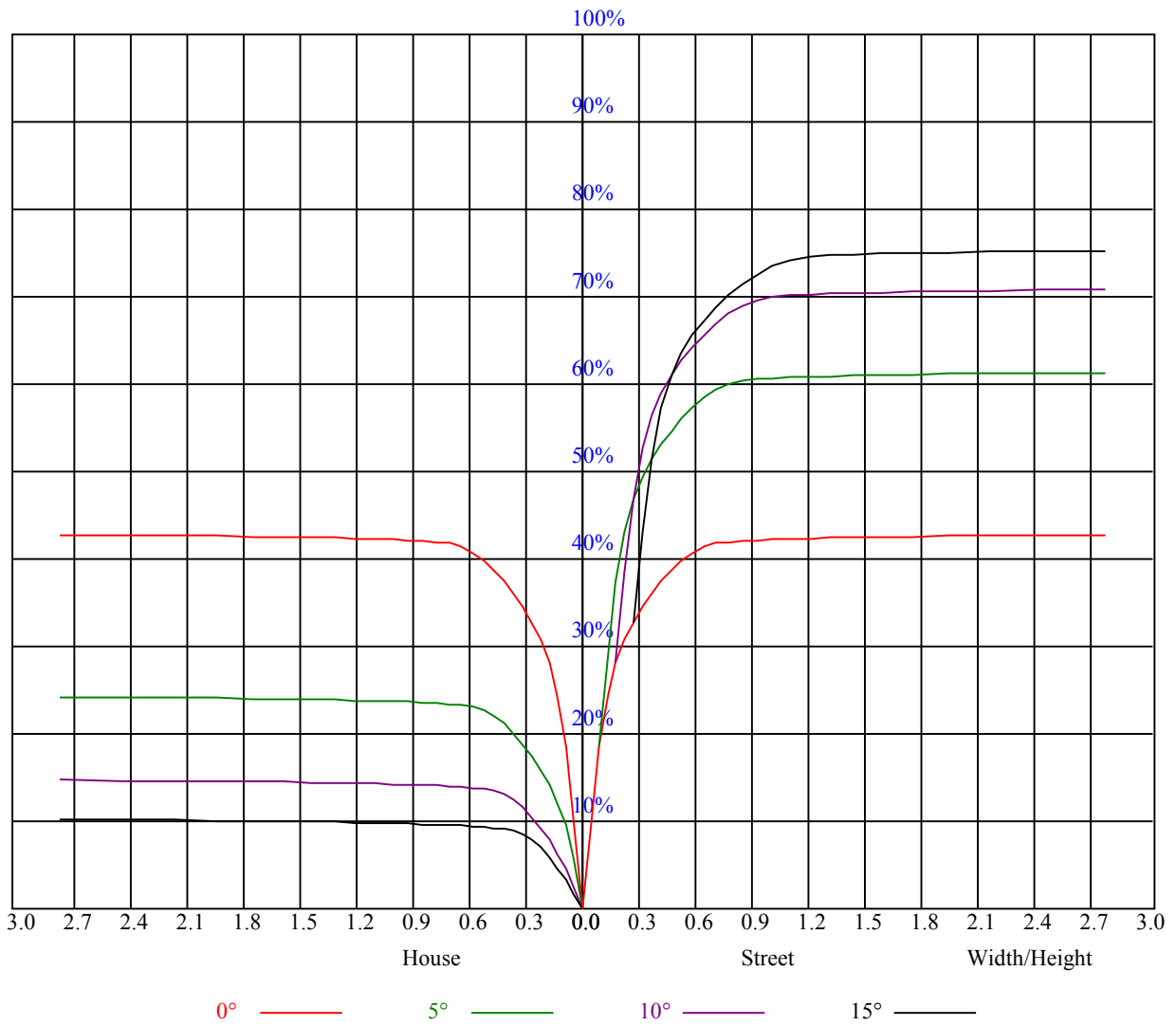
Luminance Limiting Curve



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	10.90	11.83	11.27	12.14	12.45	9.78	10.70	10.14	11.01	11.33
	3H	12.05	12.86	12.43	13.20	13.57	11.28	12.10	11.67	12.43	12.80
	4H	12.67	13.42	13.08	13.78	14.17	12.09	12.85	12.50	13.20	13.59
	6H	13.39	14.08	13.81	14.45	14.85	12.97	13.66	13.39	14.03	14.43
	8H	13.78	14.42	14.21	14.82	15.23	13.43	14.08	13.87	14.47	14.88
	12H	14.45	15.07	14.88	15.45	15.88	14.21	14.83	14.65	15.21	15.65
4H	2H	11.15	11.90	11.55	12.26	12.65	10.22	10.98	10.63	11.33	11.72
	3H	12.50	13.12	12.91	13.53	13.93	11.91	12.53	12.32	12.94	13.34
	4H	13.28	13.83	13.72	14.26	14.71	12.86	13.42	13.30	13.84	14.29
	6H	14.11	14.58	14.58	15.03	15.51	13.82	14.30	14.30	14.75	15.22
	8H	14.62	15.06	15.10	15.51	15.99	14.40	14.84	14.88	15.30	15.77
	12H	15.35	15.73	15.84	16.22	16.70	15.22	15.60	15.71	16.09	16.57
8H	4H	13.50	13.94	13.97	14.39	14.87	13.13	13.57	13.61	14.02	14.50
	6H	14.55	14.90	15.06	15.40	15.89	14.32	14.66	14.83	15.17	15.66
	8H	15.21	15.52	15.75	16.04	16.54	15.05	15.36	15.59	15.88	16.38
	12H	16.15	16.41	16.67	16.91	17.49	16.05	16.32	16.58	16.82	17.40
12H	4H	13.53	13.91	14.02	14.40	14.88	13.17	13.55	13.66	14.04	14.52
	6H	14.86	14.96	15.19	15.43	15.98	14.65	14.74	14.97	15.22	15.77
	8H	15.41	15.67	15.93	16.17	16.75	15.26	15.52	15.78	16.02	16.61
Variation with the observer position at spacings:											
S = 1.0H	5.8/-4.7					5.8/-4.7					
S = 1.5H	8.0/-3.8					8.0/-3.8					
S = 2.0H	9.4/-3.1					9.4/-3.1					
Standard tables:	BK2					BK2					
Uncorrected UGR	-1.8					-1.8					



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	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.97	0.95	0.93	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.85	0.84	0.82
2	0.92	0.89	0.87	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.83	0.82	0.81	0.79
3	0.88	0.85	0.82	0.87	0.84	0.82	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.77
4	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
5	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.77	0.74	0.78	0.76	0.74	0.77	0.75	0.73	0.72
6	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.75	0.73	0.71	0.70
7	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.71	0.69	0.68
8	0.74	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.72	0.69	0.67	0.67
9	0.72	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
10	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.69	0.66	0.65	0.69	0.66	0.64	0.64



Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	7638.75	7725.94	7425.00	6928.31	6264.56	5378.06	4408.88	3578.06	2700.56
45.0	7560.56	7578.00	7216.31	6696.00	6009.19	5123.81	4185.00	3349.13	2592.56
90.0	7606.69	7249.50	6603.75	5760.00	4929.75	3950.44	3028.50	2316.38	1675.69
135.0	7773.75	7458.19	6737.63	5981.06	5131.69	4125.38	3170.81	2412.56	1726.88
180.0	7638.75	7277.06	6544.69	5767.31	4922.44	3814.31	2979.56	2253.94	1557.00
225.0	7560.56	7203.94	6666.19	5857.31	4937.06	4046.63	3228.19	2335.50	1755.00
270.0	7606.69	7700.06	7414.88	6910.88	6234.19	5317.31	4346.44	3517.31	2648.25
315.0	7773.75	7790.06	7468.88	6896.25	6187.50	5272.31	4307.06	3459.38	2584.69
360.0	7638.75	7725.94	7425.00	6928.31	6264.56	5378.06	4408.88	3578.06	2700.56
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1987.88	1522.13	1146.94	906.19	713.81	588.94	512.44	455.63	406.13
45.0	1833.75	1387.13	1098.56	801.00	622.13	530.44	444.38	396.56	367.31
90.0	1088.55	920.03	693.34	560.48	462.88	398.98	360.06	333.96	310.56
135.0	1243.13	936.00	697.50	559.13	460.69	397.13	361.69	334.69	309.38
180.0	1084.95	884.31	671.01	545.74	456.08	402.19	359.83	332.49	307.97
225.0	1113.47	977.40	735.92	590.18	495.73	420.19	377.89	346.44	320.91
270.0	1953.56	1487.25	1102.50	857.25	662.63	534.38	454.50	399.38	353.25
315.0	1958.06	1289.81	1028.64	829.24	649.07	520.31	459.68	408.49	363.83
360.0	1987.88	1522.13	1146.94	906.19	713.81	588.94	512.44	455.63	406.13
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	375.19	351.00	330.19	317.81	307.13	297.00	289.69	284.06	275.91
45.0	346.50	334.13	324.00	311.63	302.63	294.75	286.88	284.06	275.46
90.0	296.66	285.86	274.56	268.03	262.41	256.44	253.01	250.09	243.45
135.0	295.88	285.19	272.64	264.77	258.41	253.35	247.73	243.39	239.57
180.0	290.87	279.45	270.79	262.29	257.34	253.63	248.63	244.35	239.74
225.0	301.67	288.34	276.58	267.75	261.51	255.77	250.76	246.83	241.03
270.0	327.94	309.38	292.50	284.63	272.31	265.73	257.29	252.00	247.56
315.0	337.28	319.44	304.09	293.01	285.41	279.90	274.89	271.41	268.31
360.0	375.19	351.00	330.19	317.81	307.13	297.00	289.69	284.06	275.91
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	270.06	264.77	259.31	255.66	250.03	233.89	207.06	173.08	124.59
45.0	269.21	266.29	260.78	256.33	248.79	229.89	193.33	153.11	116.66
90.0	237.71	226.91	215.78	203.85	179.61	138.21	112.11	85.28	52.76
135.0	234.62	230.63	225.17	214.76	186.81	154.80	117.51	85.89	53.61
180.0	236.93	235.01	234.68	225.68	203.46	169.26	128.76	91.74	55.24
225.0	235.91	231.81	225.17	218.53	200.59	164.64	132.36	99.51	62.89
270.0	241.31	236.25	233.89	229.05	223.59	213.19	182.48	150.13	115.99
315.0	265.56	261.56	255.54	250.71	246.66	228.60	199.80	163.58	116.72
360.0	270.06	264.77	259.31	255.66	250.03	233.89	207.06	173.08	124.59
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	86.12	53.33	25.71	14.91	13.11	11.81	10.41	9.11	7.65
45.0	73.69	42.64	21.21	15.30	14.01	12.77	11.14	9.62	8.27
90.0	34.88	21.26	17.38	15.13	13.39	12.09	11.08	9.68	8.89
135.0	26.83	15.53	13.67	12.21	11.36	10.46	9.00	7.99	7.65
180.0	27.79	15.24	12.88	11.64	10.86	9.90	8.55	7.48	7.09
225.0	33.98	18.62	13.67	12.21	11.14	9.90	8.83	7.48	7.09
270.0	74.14	47.03	25.99	15.30	14.18	13.28	11.76	10.69	9.79
315.0	79.43	47.42	24.75	15.13	14.06	12.94	11.48	9.79	8.44
360.0	86.12	53.33	25.71	14.91	13.11	11.81	10.41	9.11	7.65

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	6.98	6.86	6.64	6.53	6.41	6.30	6.13	5.85	5.63
45.0	7.71	7.31	6.92	6.47	6.41	6.19	6.02	5.85	5.40
90.0	8.27	7.59	7.09	6.69	6.19	5.91	5.63	5.40	5.40
135.0	7.37	7.20	7.26	7.26	7.14	7.09	7.20	7.37	7.43
180.0	6.86	7.03	6.81	7.20	7.54	7.54	7.59	7.37	6.69
225.0	7.03	6.92	6.92	7.20	7.43	7.54	7.65	7.59	7.48
270.0	9.28	9.11	8.83	8.16	7.82	7.43	7.09	6.98	6.92
315.0	7.82	7.48	7.31	7.31	7.14	6.98	6.75	6.75	6.47
360.0	6.98	6.86	6.64	6.53	6.41	6.30	6.13	5.85	5.63
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.34	5.18	4.89	4.61	4.44	4.28	4.16	4.11	4.05
45.0	5.01	4.84	4.67	4.33	4.16	4.11	3.99	3.99	3.94
90.0	5.74	5.91	6.24	6.53	6.41	6.58	6.30	5.91	5.68
135.0	7.09	7.14	6.75	6.41	6.41	6.19	6.24	6.53	6.24
180.0	6.47	6.19	5.57	5.23	5.06	4.89	4.73	4.95	5.12
225.0	7.09	6.92	6.24	5.91	5.57	5.34	5.40	5.51	5.63
270.0	7.03	7.37	7.43	7.37	7.37	7.14	6.75	6.47	6.36
315.0	6.02	5.85	5.79	5.34	5.34	5.34	5.23	5.34	5.34
360.0	5.34	5.18	4.89	4.61	4.44	4.28	4.16	4.11	4.05
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.05	3.99	3.94	3.88	3.83	3.83	3.77	3.71	3.66
45.0	3.88	3.88	3.83	3.77	3.71	3.66	3.66	3.60	3.54
90.0	5.06	4.67	4.11	3.88	3.77	3.66	3.54	3.49	3.49
135.0	5.91	5.57	5.40	4.84	4.39	4.05	3.77	3.54	3.49
180.0	4.89	4.73	4.73	4.44	4.22	4.11	3.94	3.71	3.60
225.0	5.51	5.34	5.34	5.06	4.61	4.28	4.11	3.66	3.54
270.0	6.02	5.74	5.40	5.01	4.67	4.33	4.05	3.83	3.71
315.0	5.18	5.06	4.95	4.56	4.44	4.16	3.99	3.88	3.83
360.0	4.05	3.99	3.94	3.88	3.83	3.83	3.77	3.71	3.66
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.60	3.60	3.60	3.54	3.49	3.49	3.38	3.38	3.32
45.0	3.49	3.49	3.43	3.38	3.32	3.32	3.32	3.26	3.26
90.0	3.43	3.43	3.38	3.32	3.32	3.26	3.26	3.26	3.15
135.0	3.43	3.38	3.38	3.32	3.26	3.26	3.21	3.21	3.15
180.0	3.54	3.49	3.49	3.43	3.38	3.32	3.32	3.26	3.21
225.0	3.49	3.43	3.38	3.38	3.26	3.26	3.26	3.21	3.15
270.0	3.66	3.60	3.54	3.49	3.49	3.49	3.43	3.38	3.26
315.0	3.71	3.66	3.60	3.60	3.54	3.49	3.43	3.32	3.26
360.0	3.60	3.60	3.60	3.54	3.49	3.49	3.38	3.38	3.32
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.26	3.21	3.21	3.21	3.21	3.21	3.09	3.09	3.09
45.0	3.21	3.15	3.15	3.09	3.09	3.15	2.98	2.98	2.98
90.0	3.15	3.15	3.15	3.09	3.09	3.15	2.98	2.87	2.81
135.0	3.09	3.09	3.04	3.04	2.98	2.98	2.87	2.87	2.87
180.0	3.21	3.21	3.21	3.32	3.32	3.38	2.93	2.93	2.87
225.0	3.15	3.15	3.21	3.32	3.43	3.54	2.93	2.87	2.87
270.0	3.26	3.21	3.15	3.15	3.21	3.21	2.93	2.87	2.87
315.0	3.26	3.21	3.21	3.15	3.15	3.09	2.98	2.98	2.98
360.0	3.26	3.21	3.21	3.21	3.21	3.21	3.09	3.09	3.09

Intensity data(cd)

C/γ(°)	90.0
0.0	3.04
45.0	2.93
90.0	2.87
135.0	2.81
180.0	2.87
225.0	2.81
270.0	2.81
315.0	2.93
360.0	3.04