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Nata

LumCAT: 1436-N
Luminaire: 92.70.043.00+92.70.147.00
Report No: NATA0100
Test No: GC2018092607
LampCAT: CITIZEN CLU7A2-1201C9
Lamp flux(lm): 762.0
Number of Lamps: 1
Length(mm): 46
Phm Type: C

Voltage(V): 37.3000
Current(A): 0.2100
Power (W): 7.8330
PF: 0.0000
Ballast type: DC
Width(mm): 46
Height(mm): 0

Photometric Results

Lumens(lm): 601.29
Efficiency(%): 78.91%
Lumens(lm)/Power(W): 76.84
Central intensity(cd): 2694.656
Maximum intensity(cd): 2694.656
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=21.3
 [C90/270]Total=21.3
Field angle(10%Imax): [C0/180]Total=42.7
 [C90/270]Total=42.7
Maximum s/h(1/2): C0_180=0.36 C90_270=0.36
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 78.99%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.527%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2694.656	0.645	0.645	.085%	.107%
1.0	2685.516	5.140	5.784	.674%	.962%
2.0	2655.844	10.164	15.949	1.334%	2.652%
3.0	2607.117	14.963	30.911	1.964%	5.141%
4.0	2536.172	19.401	50.312	2.546%	8.367%
5.0	2425.992	23.187	73.499	3.043%	12.223%
6.0	2298.938	26.352	99.851	3.458%	16.606%
7.0	2126.320	28.417	128.267	3.729%	21.332%
8.0	1928.391	29.431	157.698	3.862%	26.227%
9.0	1698.778	29.142	186.84	3.824%	31.073%
10.0	1459.034	27.784	214.624	3.646%	35.694%
11.0	1282.092	26.827	241.451	3.521%	40.155%
12.0	1079.388	24.610	266.06	3.230%	44.248%
13.0	886.409	21.866	287.927	2.870%	47.885%
14.0	728.944	19.338	307.265	2.538%	51.101%
15.0	601.045	17.059	324.324	2.239%	53.938%
16.0	499.774	15.106	339.431	1.982%	56.450%
17.0	425.580	13.645	353.075	1.791%	58.720%
18.0	370.238	12.546	365.622	1.646%	60.806%
19.0	334.716	11.950	377.572	1.568%	62.794%
20.0	301.964	11.326	388.897	1.486%	64.677%
21.0	276.124	10.851	399.749	1.424%	66.482%
22.0	257.309	10.570	410.319	1.387%	68.240%
23.0	236.095	10.116	420.435	1.328%	69.922%
24.0	215.381	9.607	430.042	1.261%	71.520%
25.0	198.232	9.187	439.229	1.206%	73.048%
26.0	182.391	8.768	447.997	1.151%	74.506%
27.0	166.556	8.292	456.289	1.088%	75.885%
28.0	153.640	7.910	464.198	1.038%	77.200%
29.0	140.196	7.453	471.652	.978%	78.440%
30.0	128.841	7.064	478.716	.927%	79.615%
31.0	118.153	6.673	485.389	.876%	80.725%
32.0	107.733	6.261	491.65	.822%	81.766%
33.0	99.394	5.936	497.586	.779%	82.753%
34.0	91.856	5.633	503.219	.739%	83.690%
35.0	84.994	5.346	508.565	.702%	84.579%
36.0	78.258	5.044	513.609	.662%	85.418%
37.0	73.062	4.822	518.431	.633%	86.220%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	67.711	4.571	523.003	.600%	86.980%
39.0	62.761	4.331	527.334	.568%	87.700%
40.0	58.598	4.131	531.464	.542%	88.387%
41.0	54.668	3.933	535.397	.516%	89.041%
42.0	50.801	3.728	539.125	.489%	89.661%
43.0	47.412	3.546	542.671	.465%	90.251%
44.0	44.381	3.381	546.052	.444%	90.813%
45.0	41.414	3.211	549.263	.421%	91.347%
46.0	39.009	3.077	552.34	.404%	91.859%
47.0	36.478	2.926	555.266	.384%	92.346%
48.0	34.235	2.790	558.056	.366%	92.810%
49.0	32.077	2.655	560.71	.348%	93.251%
50.0	29.855	2.508	563.218	.329%	93.668%
51.0	27.872	2.375	565.594	.312%	94.063%
52.0	26.037	2.250	567.844	.295%	94.438%
53.0	24.082	2.109	569.953	.277%	94.788%
54.0	22.205	1.970	571.923	.259%	95.116%
55.0	20.496	1.841	573.764	.242%	95.422%
56.0	18.647	1.695	575.459	.222%	95.704%
57.0	17.016	1.565	577.024	.205%	95.964%
58.0	15.518	1.443	578.467	.189%	96.204%
59.0	14.168	1.332	579.799	.175%	96.426%
60.0	12.720	1.208	581.007	.159%	96.627%
61.0	11.609	1.113	582.12	.146%	96.812%
62.0	10.659	1.032	583.152	.135%	96.983%
63.0	9.802	0.958	584.11	.126%	97.143%
64.0	9.197	0.906	585.017	.119%	97.294%
65.0	8.670	0.862	585.878	.113%	97.437%
66.0	8.269	0.828	586.707	.109%	97.575%
67.0	7.924	0.800	587.506	.105%	97.708%
68.0	7.664	0.779	588.286	.102%	97.837%
69.0	7.397	0.757	589.043	.099%	97.963%
70.0	7.207	0.743	589.786	.097%	98.087%
71.0	7.017	0.728	590.513	.095%	98.208%
72.0	6.792	0.708	591.222	.093%	98.325%
73.0	6.659	0.698	591.92	.092%	98.442%
74.0	6.511	0.686	592.606	.090%	98.556%
75.0	6.370	0.675	593.281	.089%	98.668%

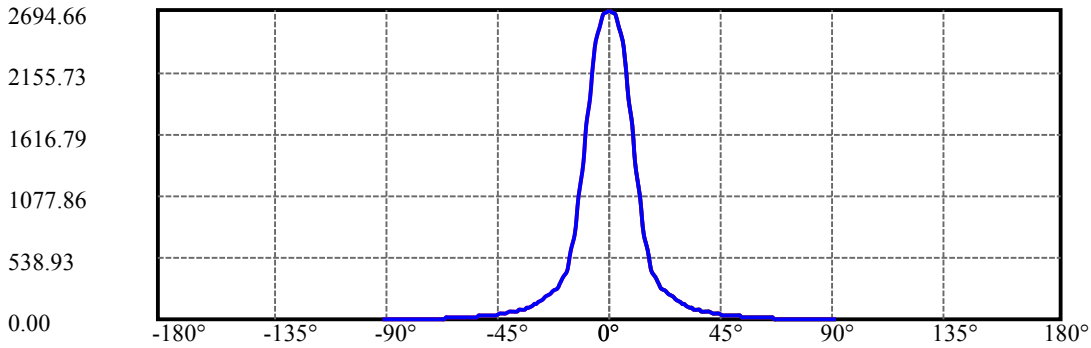
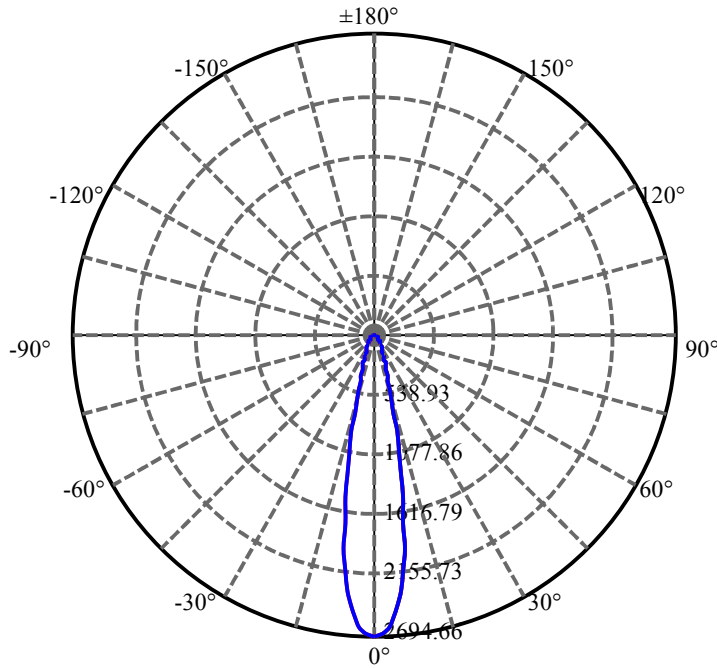
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.251	0.665	593.946	.087%	98.779%
77.0	6.152	0.657	594.603	.086%	98.888%
78.0	6.061	0.650	595.254	.085%	98.996%
79.0	6.005	0.646	595.9	.085%	99.104%
80.0	5.941	0.642	596.542	.084%	99.210%
81.0	5.892	0.638	597.18	.084%	99.316%
82.0	5.801	0.630	597.81	.083%	99.421%
83.0	5.653	0.615	598.425	.081%	99.523%
84.0	5.527	0.603	599.028	.079%	99.624%
85.0	5.337	0.583	599.611	.077%	99.721%
86.0	5.027	0.550	600.161	.072%	99.812%
87.0	3.473	0.380	600.541	.050%	99.875%
88.0	2.813	0.308	600.849	.040%	99.927%
89.0	2.707	0.297	601.146	.039%	99.976%
90.0	2.630	0.144	601.29	.019%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	478.72	62.82%	79.61%
0-40	531.46	69.75%	88.39%
0-60	581.01	76.25%	96.63%
0-90	601.15	78.89%	99.98%
0-120	601.15	78.89%	99.98%
0-180	601.29	78.91%	100.00%
60-90	21.35	2.80%	3.55%
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%
0-30.35	481.03	63.13%	80.00%

ZONAL LUMEN SUMMARY

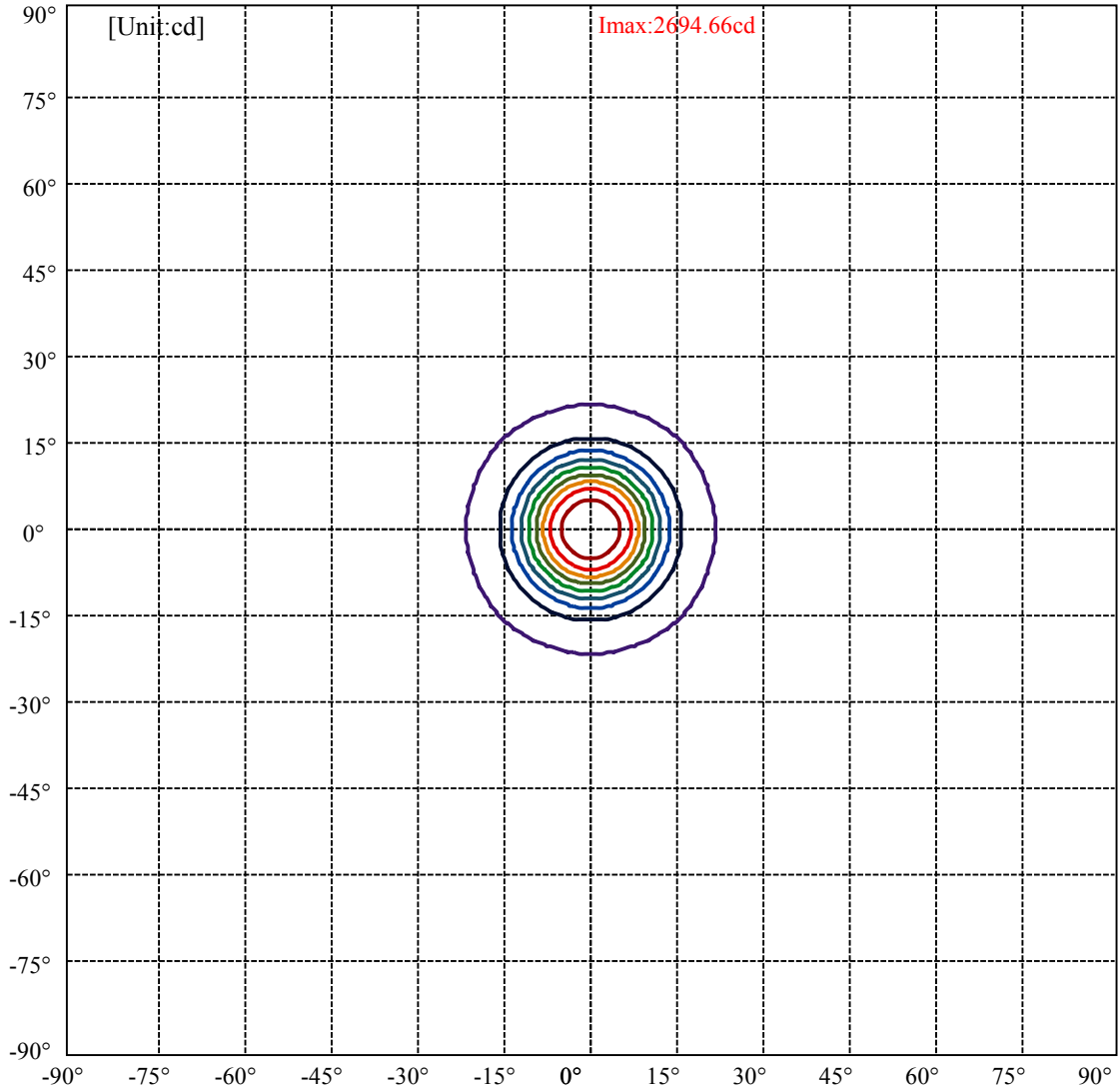
0-10	214.62
10-20	174.27
20-30	89.82
30-40	52.75
40-50	31.75
50-60	17.79
60-70	8.78
70-80	6.76
80-90	4.60
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



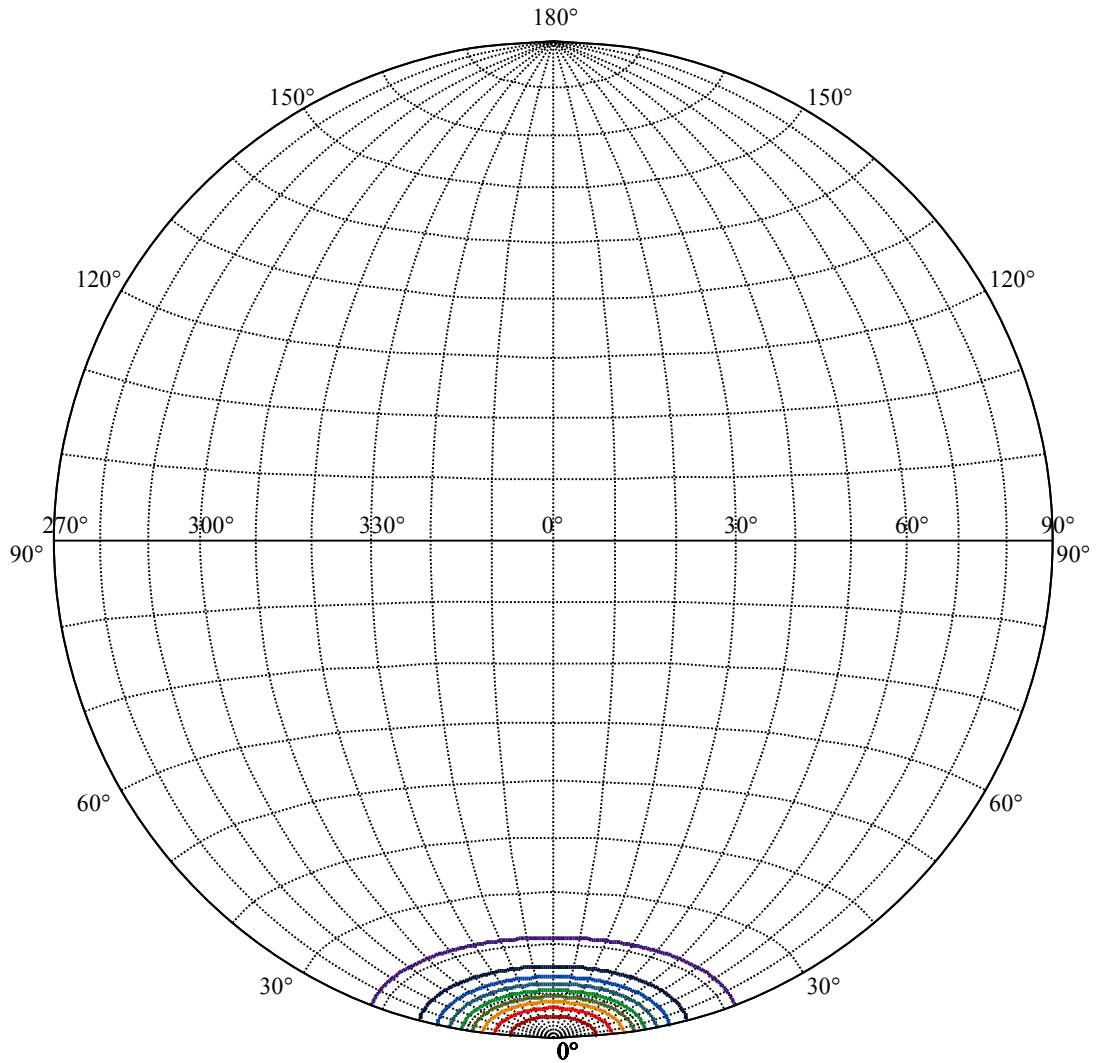
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:21.4 Right:21.4
:C90/270Left:21.4 Right:21.4

Beam Angle(50%Imax):C0/180Left:10.6 Right:10.6
:C90/270Left:10.6 Right:10.6



(10%Imax) 269.466	—
(20%Imax) 538.931	—
(30%Imax) 808.397	—
(40%Imax) 1077.86	—
(50%Imax) 1347.33	—
(60%Imax) 1616.79	—
(70%Imax) 1886.26	—
(80%Imax) 2155.73	—
(90%Imax) 2425.19	—



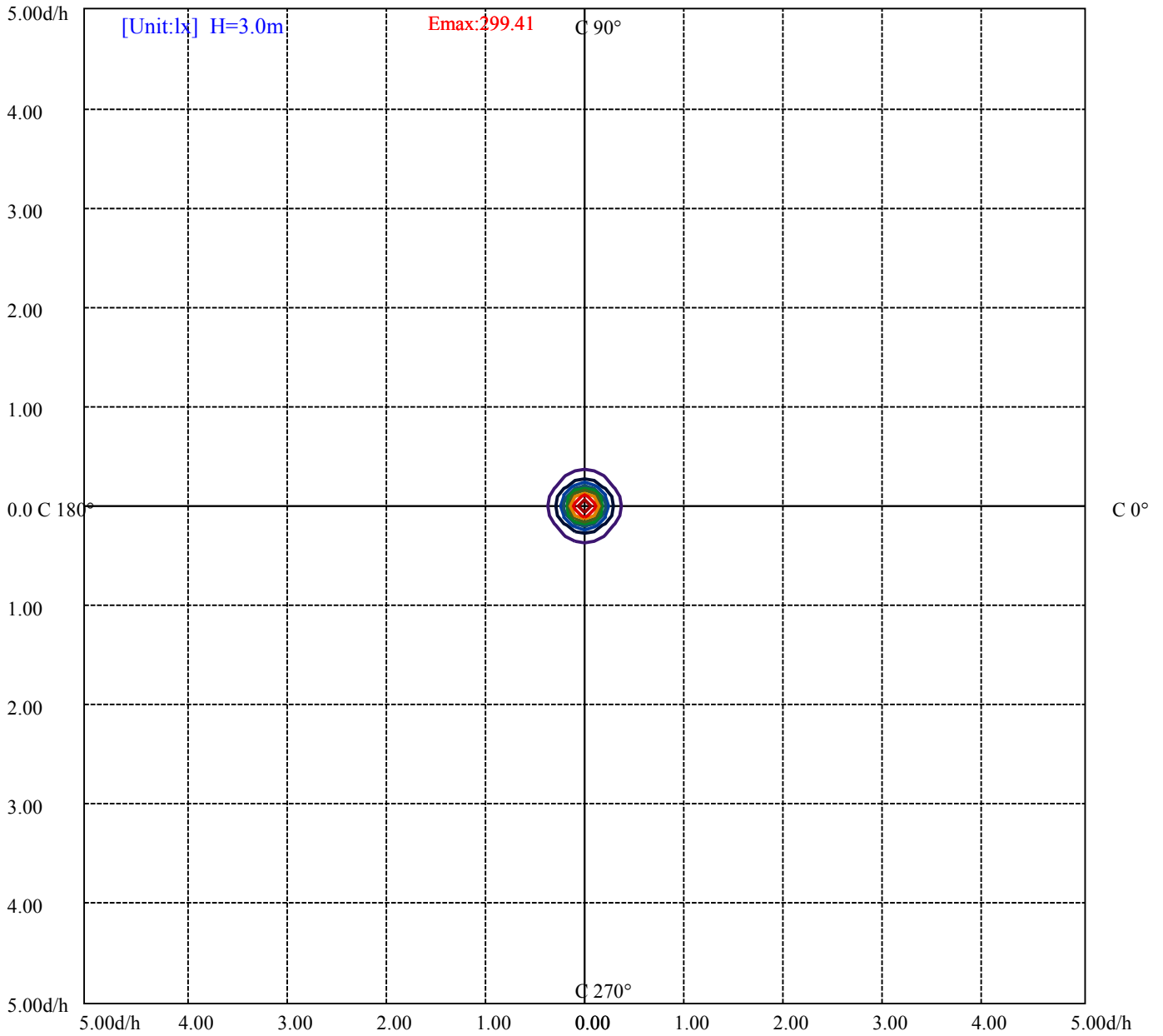
House

[Unit:cd]

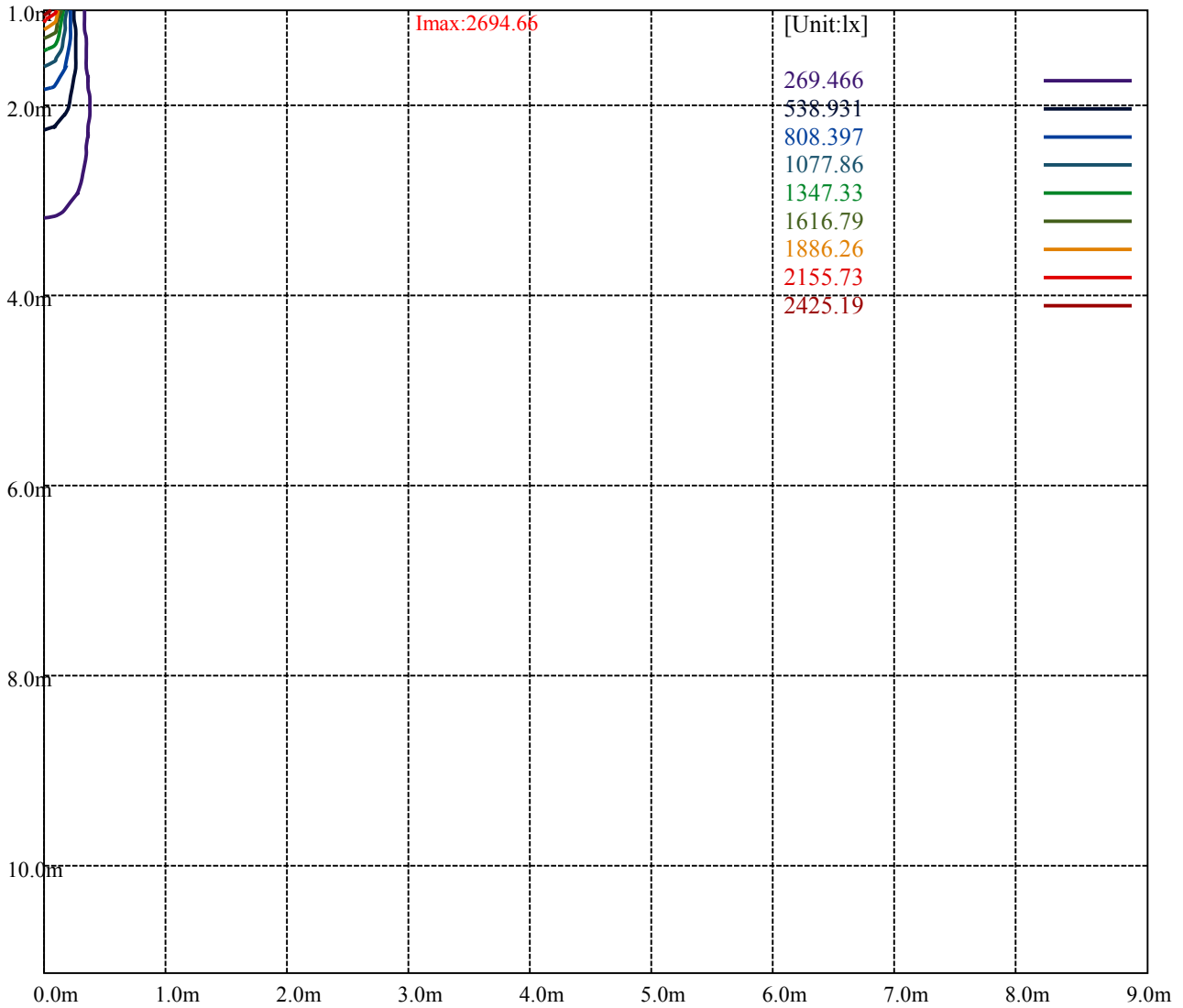
Road

Imax:2694.66

(10%Imax) 269.466	—
(20%Imax) 538.931	—
(30%Imax) 808.397	—
(40%Imax) 1077.86	—
(50%Imax) 1347.33	—
(60%Imax) 1616.79	—
(70%Imax) 1886.26	—
(80%Imax) 2155.73	—
(90%Imax) 2425.19	—



- (10%Emax) 29.94056
- (20%Emax) 59.88123
- (30%Emax) 89.82178
- (40%Emax) 119.7622
- (50%Emax) 149.7033
- (60%Emax) 179.6433
- (70%Emax) 209.5844
- (80%Emax) 239.5244
- (90%Emax) 269.4655



Luminance Table

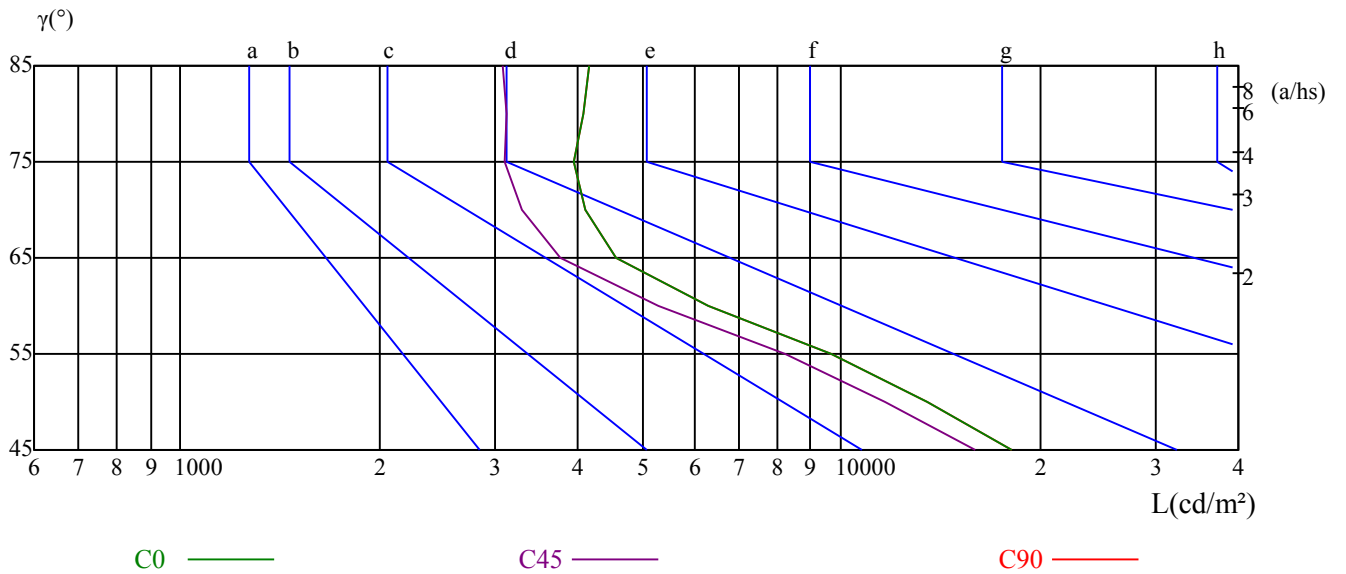
γ	45	50	55	60	65	70	75	80	85
C0	18189	13534	9677	6315	4575	4092	3947	4084	4156
C45	15927	11680	8223	5278	3754	3290	3099	3119	3067
C90	18189	13534	9677	6315	4575	4092	3947	4084	4156

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9695	9695	9695	11632	11632	11632	28938	28938	28938

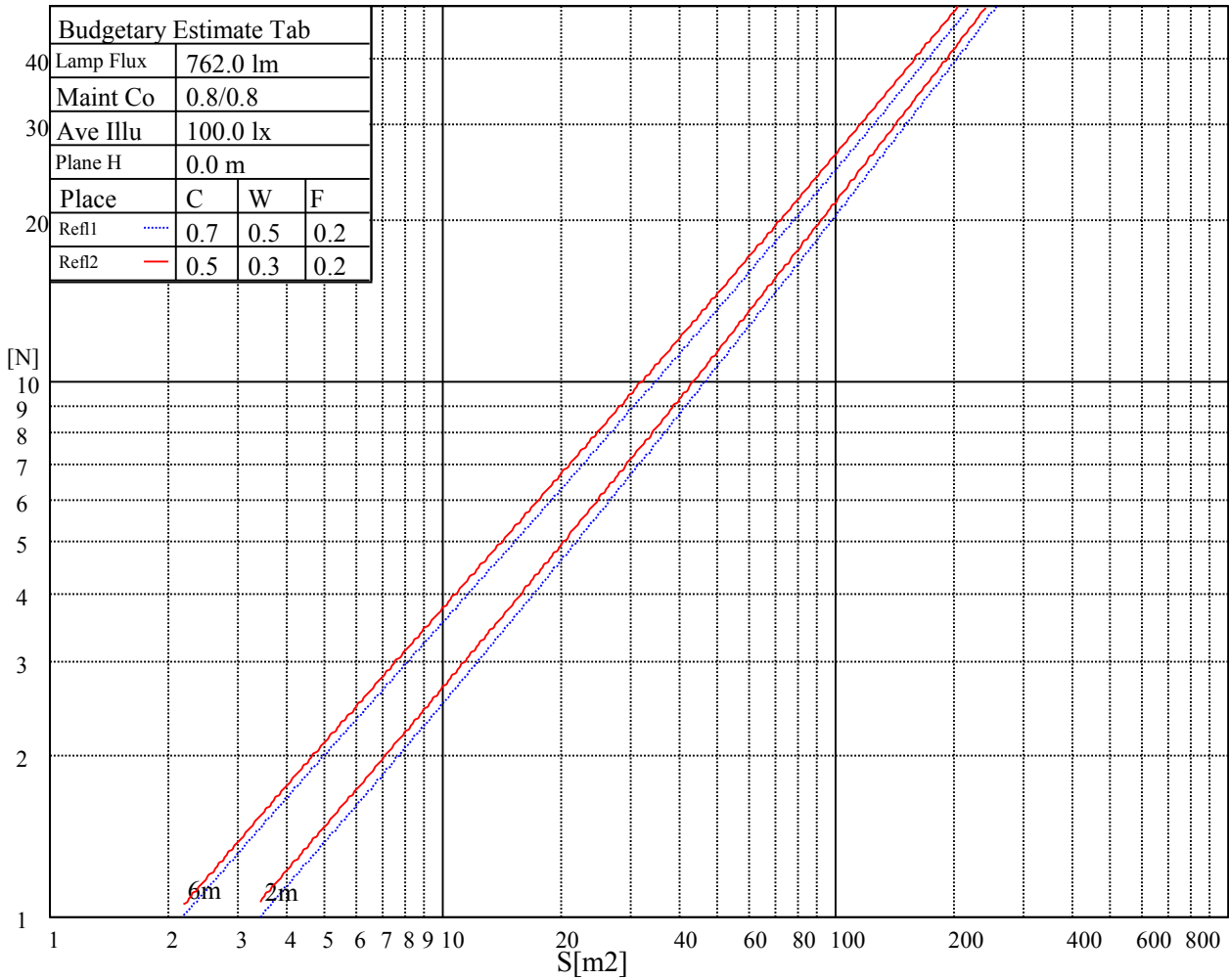
Glare Table

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

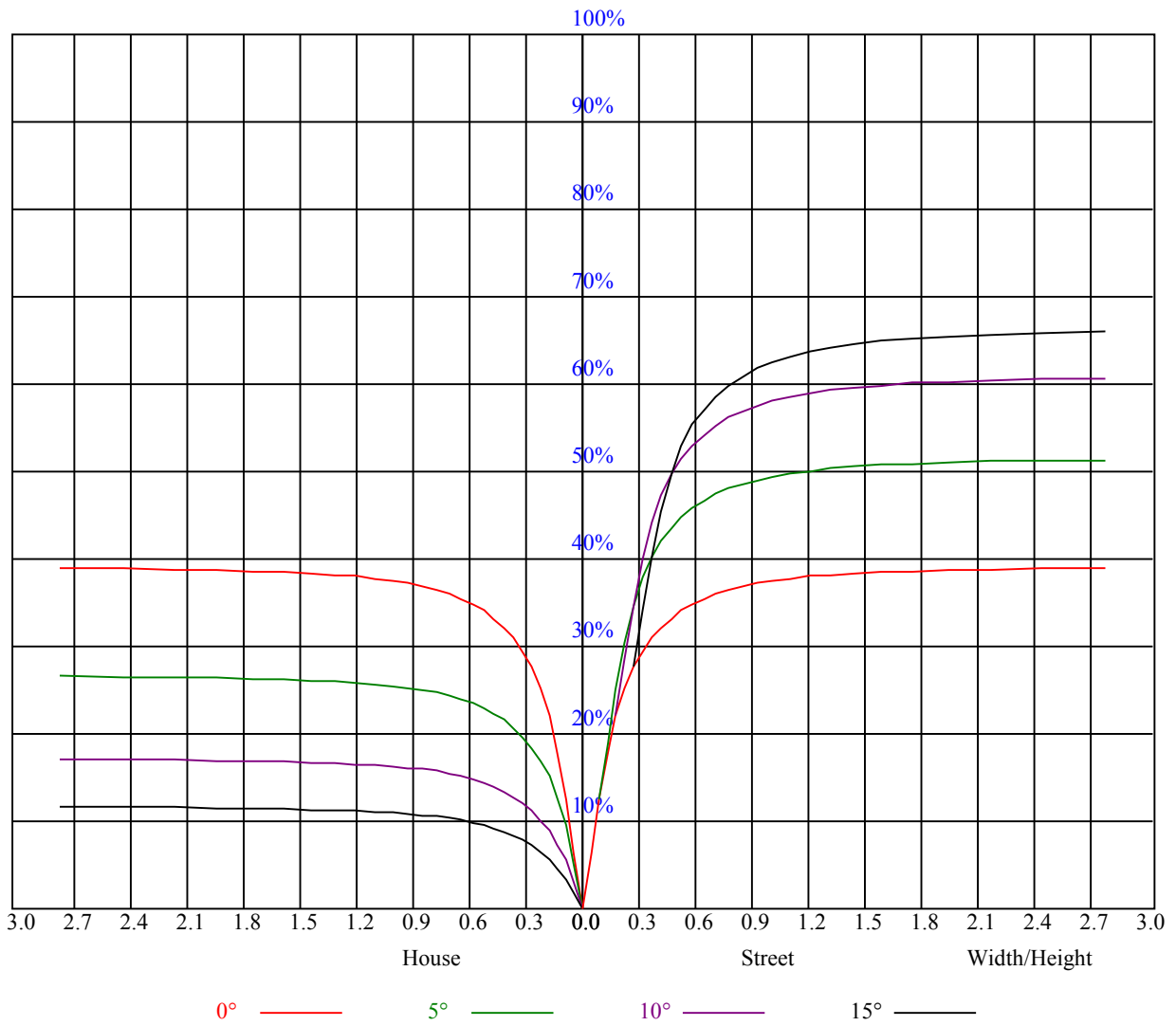
Luminance Limiting Curve



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	15.96	17.01	16.32	17.32	17.64	15.95	17.00	16.31	17.31	17.62
	3H	16.67	17.61	17.06	17.94	18.31	16.52	17.45	16.90	17.78	18.15
	4H	17.10	17.97	17.51	18.32	18.71	16.87	17.74	17.28	18.09	18.48
	6H	17.62	18.41	18.03	18.78	19.18	17.33	18.12	17.75	18.50	18.89
	8H	17.88	18.62	18.31	19.02	19.42	17.60	18.34	18.03	18.73	19.14
	12H	18.30	19.02	18.74	19.40	19.83	18.07	18.79	18.51	19.17	19.60
4H	2H	15.96	16.82	16.36	17.17	17.56	15.95	16.81	16.35	17.16	17.55
	3H	16.89	17.60	17.30	18.01	18.41	16.73	17.44	17.15	17.85	18.25
	4H	17.47	18.11	17.91	18.53	18.98	17.24	17.87	17.67	18.29	18.74
	6H	18.03	18.58	18.50	19.03	19.50	17.75	18.30	18.22	18.75	19.22
	8H	18.41	18.92	18.89	19.37	19.85	18.14	18.65	18.61	19.10	19.57
	12H	18.93	19.37	19.42	19.86	20.33	18.71	19.16	19.20	19.64	20.12
8H	4H	17.59	18.10	18.07	18.55	19.03	17.38	17.89	17.86	18.34	18.81
	6H	18.36	18.77	18.86	19.27	19.75	18.10	18.51	18.61	19.01	19.50
	8H	18.87	19.24	19.40	19.76	20.25	18.63	19.00	19.16	19.52	20.01
	12H	19.57	19.89	20.09	20.39	20.97	19.40	19.72	19.92	20.21	20.79
12H	4H	17.60	18.05	18.09	18.53	19.01	17.40	17.84	17.89	18.33	18.81
	6H	18.78	18.79	18.96	19.26	19.81	18.54	18.55	18.72	19.02	19.57
	8H	19.02	19.34	19.54	19.83	20.41	18.79	19.11	19.32	19.61	20.19
Variation with the observer position at spacings:											
S = 1.0H	1.2/-1.5					1.2/-1.5					
S = 1.5H	2.1/-2.2					2.1/-2.2					
S = 2.0H	3.7/-2.0					3.7/-2.0					
Standard tables:	BK3					BK3					
Uncorrected UGR	-0.2					-0.2					



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	0.94	0.94	0.94	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.79
1	0.88	0.86	0.84	0.86	0.84	0.83	0.83	0.82	0.80	0.80	0.79	0.78	0.77	0.76	0.76	0.74
2	0.83	0.80	0.77	0.81	0.79	0.76	0.79	0.76	0.75	0.76	0.75	0.73	0.74	0.73	0.72	0.70
3	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.71	0.70	0.68	0.67
4	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.70	0.68	0.66	0.69	0.67	0.65	0.64
5	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.66	0.64	0.62	0.61
6	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
7	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
8	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55
9	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.57	0.54	0.52	0.57	0.54	0.52	0.51



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	2700.00	2713.50	2715.75	2694.94	2651.63	2568.38	2464.88	2334.94	2150.44
45.0	2676.94	2702.81	2697.19	2691.00	2675.25	2631.94	2561.06	2471.63	2365.31
90.0	2703.94	2707.31	2692.69	2673.56	2650.50	2594.81	2520.56	2410.88	2251.13
135.0	2697.75	2699.44	2681.44	2653.31	2615.63	2545.31	2466.00	2337.75	2170.13
180.0	2700.00	2671.31	2619.56	2543.63	2448.00	2331.00	2156.63	1928.81	1717.88
225.0	2676.94	2622.94	2554.31	2449.69	2298.94	2124.56	1928.81	1660.50	1437.19
270.0	2703.94	2675.81	2626.31	2549.25	2440.13	2262.94	2083.50	1878.19	1622.81
315.0	2697.75	2691.00	2659.50	2601.56	2509.31	2349.00	2210.06	1987.88	1712.25
360.0	2700.00	2713.50	2715.75	2694.94	2651.63	2568.38	2464.88	2334.94	2150.44
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1925.44	1700.44	1445.63	1227.94	1005.19	814.50	668.25	527.63	447.75
45.0	2160.56	1973.25	1792.69	1521.56	1269.56	1094.06	879.19	714.94	603.56
90.0	2076.19	1847.25	1602.56	1382.06	1121.68	936.68	773.49	633.60	495.90
135.0	1956.38	1751.06	1504.13	1291.50	1064.25	861.19	704.25	565.31	466.88
180.0	1481.63	1114.93	1069.82	882.17	734.51	602.89	502.03	437.51	389.42
225.0	1106.10	1015.59	833.57	695.64	581.40	470.25	411.47	367.54	330.02
270.0	1370.81	1163.81	952.88	784.69	623.25	501.19	423.00	365.06	325.69
315.0	1513.13	1105.93	1055.48	849.54	691.43	550.80	446.68	386.61	345.43
360.0	1925.44	1700.44	1445.63	1227.94	1005.19	814.50	668.25	527.63	447.75
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	393.75	354.94	319.50	294.19	284.06	246.66	228.49	211.05	193.61
45.0	483.75	417.94	372.94	332.44	306.56	285.75	254.93	234.73	216.62
90.0	421.48	370.52	328.28	302.57	279.96	254.36	237.60	217.46	196.76
135.0	410.06	369.00	332.44	308.25	286.88	270.00	239.74	221.63	203.01
180.0	345.04	316.91	292.84	266.46	247.95	230.40	211.56	194.23	180.45
225.0	301.16	278.89	256.56	236.14	219.09	200.48	185.63	170.21	155.25
270.0	298.69	286.31	250.37	229.28	212.46	196.20	177.13	163.97	153.06
315.0	307.97	283.22	262.80	239.68	221.51	204.92	187.99	172.58	160.37
360.0	393.75	354.94	319.50	294.19	284.06	246.66	228.49	211.05	193.61
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	177.36	163.18	148.95	137.76	125.55	114.92	106.65	97.76	90.11
45.0	195.75	180.62	166.50	151.88	138.04	127.07	116.38	107.49	100.07
90.0	183.77	169.99	151.71	140.74	128.76	114.08	106.71	98.89	91.07
135.0	186.19	172.13	157.28	145.41	132.08	120.04	110.87	102.54	93.26
180.0	165.04	152.38	138.94	126.56	117.06	106.48	97.48	90.11	83.59
225.0	142.43	131.51	119.08	110.48	102.32	93.32	86.74	80.94	74.81
270.0	135.73	124.93	116.49	106.03	97.71	91.13	83.53	76.89	72.68
315.0	146.19	134.38	122.63	111.88	103.73	94.84	86.79	80.21	74.36
360.0	177.36	163.18	148.95	137.76	125.55	114.92	106.65	97.76	90.11
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	83.76	77.91	71.55	66.94	62.72	58.50	53.94	50.57	47.03
45.0	92.36	86.23	80.10	74.64	70.37	66.43	61.88	57.88	54.56
90.0	84.15	78.58	72.79	67.67	63.51	59.06	55.63	51.86	48.32
135.0	85.84	79.31	72.34	67.28	62.21	57.21	52.48	48.71	44.89
180.0	76.11	71.16	66.49	61.48	56.76	52.88	48.94	45.39	42.64
225.0	69.58	65.48	60.64	55.91	52.54	49.05	46.24	43.37	40.67
270.0	66.38	62.49	58.61	53.94	50.51	47.42	43.93	41.29	39.15
315.0	67.89	63.34	59.18	54.23	50.18	46.80	43.37	40.22	37.80
360.0	83.76	77.91	71.55	66.94	62.72	58.50	53.94	50.57	47.03

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	43.88	41.29	38.64	36.51	34.14	31.84	30.04	28.18	26.16
45.0	50.68	47.81	45.34	42.41	39.88	37.46	34.93	32.91	30.60
90.0	45.39	42.69	39.66	37.41	35.16	32.57	30.54	28.63	26.55
135.0	41.63	38.98	36.23	33.98	31.61	29.31	27.39	25.59	23.57
180.0	39.83	37.58	35.04	32.85	30.88	28.86	27.00	25.03	23.12
225.0	38.36	36.17	33.53	31.61	29.64	27.23	25.14	23.18	21.15
270.0	36.39	34.43	32.34	30.26	28.18	26.44	24.47	22.61	20.81
315.0	35.16	33.13	31.05	28.86	27.11	25.14	23.46	22.16	20.70
360.0	43.88	41.29	38.64	36.51	34.14	31.84	30.04	28.18	26.16
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.36	22.39	20.14	18.45	16.88	15.13	13.50	12.26	10.97
45.0	28.58	26.55	24.13	21.99	20.19	18.45	16.37	14.68	13.33
90.0	24.58	22.84	20.93	19.35	17.72	16.26	14.85	13.56	12.49
135.0	22.16	20.59	18.62	17.27	15.81	14.57	12.83	11.76	10.63
180.0	20.87	19.13	17.49	15.64	14.12	12.83	11.36	10.35	9.56
225.0	19.24	17.55	15.86	14.34	12.94	11.64	10.63	9.84	9.17
270.0	18.96	17.49	15.98	14.57	13.39	12.38	11.19	10.41	9.79
315.0	18.90	17.44	16.03	14.51	13.11	12.09	11.03	10.01	9.34
360.0	24.36	22.39	20.14	18.45	16.88	15.13	13.50	12.26	10.97
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.01	9.23	8.55	8.04	7.59	7.26	7.03	6.81	6.58
45.0	11.93	10.86	10.01	9.34	8.72	8.33	7.93	7.71	7.48
90.0	11.53	10.80	10.07	9.51	9.06	8.78	8.38	8.16	7.93
135.0	9.73	9.06	8.55	8.10	7.76	7.48	7.26	7.09	6.86
180.0	8.72	8.33	7.82	7.59	7.37	7.20	6.92	6.81	6.64
225.0	8.66	8.33	8.10	7.93	7.76	7.54	7.43	7.26	7.14
270.0	9.17	8.78	8.44	8.21	7.93	7.76	7.54	7.37	7.20
315.0	8.66	8.21	7.82	7.43	7.20	6.98	6.69	6.47	6.30
360.0	10.01	9.23	8.55	8.04	7.59	7.26	7.03	6.81	6.58
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.41	6.24	6.08	5.96	5.79	5.68	5.57	5.46	5.46
45.0	7.26	7.09	6.98	6.81	6.69	6.58	6.53	6.47	6.36
90.0	7.59	7.48	7.31	7.14	6.98	6.81	6.69	6.58	6.47
135.0	6.69	6.58	6.41	6.19	6.08	5.96	5.79	5.74	5.63
180.0	6.41	6.30	6.19	6.08	6.02	5.96	5.96	5.91	5.91
225.0	6.98	6.86	6.75	6.69	6.58	6.64	6.64	6.69	6.69
270.0	6.92	6.75	6.58	6.47	6.36	6.24	6.08	6.02	5.91
315.0	6.08	5.96	5.79	5.63	5.51	5.34	5.23	5.18	5.12
360.0	6.41	6.24	6.08	5.96	5.79	5.68	5.57	5.46	5.46
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.40	5.46	5.46	5.51	5.34	5.01	3.15	2.98	2.87
45.0	6.30	6.24	6.19	6.08	6.02	5.85	4.78	3.15	3.04
90.0	6.19	5.91	5.74	5.68	5.51	5.29	3.60	2.93	2.76
135.0	5.74	5.91	5.96	5.91	5.85	5.74	5.12	2.87	2.76
180.0	5.91	5.91	5.79	5.68	5.51	5.29	2.98	2.76	2.59
225.0	6.58	6.19	5.74	5.40	5.18	4.78	2.70	2.53	2.53
270.0	5.74	5.51	5.29	5.06	4.84	4.44	2.64	2.59	2.53
315.0	5.29	5.29	5.06	4.89	4.44	3.83	2.81	2.70	2.59
360.0	5.40	5.46	5.46	5.51	5.34	5.01	3.15	2.98	2.87

Intensity data(cd)

C/ γ (°)	90.0
0.0	2.76
45.0	2.87
90.0	2.70
135.0	2.64
180.0	2.53
225.0	2.53
270.0	2.48
315.0	2.53
360.0	2.76