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## NATA

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LumCAT: 3-1700-N  
Luminaire: 92.70.074.00+92.70.089.00  
Report No: NATA0100                      Voltage(V): 37.0000  
Test No: GC2019012605                    Current(A): 0.6000  
LampCAT: CREE CXA1816                   Power (W): 22.2000  
Lamp flux(lm): 2071.0                    PF: 0.0000  
Number of Lamps: 1                        Ballast type: DC  
Length(mm): 79                            Width(mm): 79  
Phm Type: C                                Height(mm): 0

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## Photometric Results

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Lumens(lm): 1603.15  
Efficiency(%): 77.41%  
Lumens(lm)/Power(W): 72.25  
Central intensity(cd): 3359.672  
Maximum intensity(cd): 3359.672  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=37.9  
  [C90/270]Total=37.9  
Field angle(10%Imax): [C0/180]Total=64.8  
  [C90/270]Total=64.8  
Maximum s/h(1/2): C0\_180=0.63 C90\_270=0.63  
Maximum s/h(1/4): C0\_180=0.58 C90\_270=0.58  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 77.45%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.571%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3359.672	0.804	0.804	.039%	.050%
1.0	3353.695	6.418	7.222	.310%	.451%
2.0	3337.383	12.773	19.995	.617%	1.247%
3.0	3309.750	18.995	38.99	.917%	2.432%
4.0	3275.438	25.056	64.046	1.210%	3.995%
5.0	3231.703	30.887	94.933	1.491%	5.922%
6.0	3178.055	36.429	131.362	1.759%	8.194%
7.0	3113.648	41.612	172.974	2.009%	10.790%
8.0	3044.391	46.463	219.437	2.244%	13.688%
9.0	2957.344	50.732	270.169	2.450%	16.852%
10.0	2865.094	54.558	324.728	2.634%	20.256%
11.0	2777.836	58.124	382.852	2.807%	23.881%
12.0	2677.078	61.037	443.889	2.947%	27.689%
13.0	2567.813	63.344	507.232	3.059%	31.640%
14.0	2455.172	65.134	572.366	3.145%	35.703%
15.0	2328.258	66.081	638.448	3.191%	39.825%
16.0	2180.531	65.910	704.358	3.183%	43.936%
17.0	2028.445	65.035	769.393	3.140%	47.993%
18.0	1852.031	62.760	832.153	3.030%	51.907%
19.0	1672.031	59.695	891.848	2.882%	55.631%
20.0	1482.258	55.594	947.442	2.684%	59.099%
21.0	1274.716	50.095	997.537	2.419%	62.224%
22.0	1095.490	45.002	1042.54	2.173%	65.031%
23.0	967.809	41.469	1084.008	2.002%	67.617%
24.0	838.238	37.388	1121.396	1.805%	69.950%
25.0	721.709	33.447	1154.844	1.615%	72.036%
26.0	642.066	30.865	1185.709	1.490%	73.961%
27.0	570.769	28.416	1214.125	1.372%	75.734%
28.0	509.829	26.247	1240.372	1.267%	77.371%
29.0	463.416	24.637	1265.009	1.190%	78.908%
30.0	421.530	23.113	1288.122	1.116%	80.350%
31.0	381.052	21.522	1309.644	1.039%	81.692%
32.0	347.660	20.203	1329.847	.976%	82.952%
33.0	317.510	18.963	1348.81	.916%	84.135%
34.0	292.155	17.915	1366.726	.865%	85.253%
35.0	266.583	16.768	1383.493	.810%	86.299%
36.0	243.492	15.695	1399.188	.758%	87.277%
37.0	220.043	14.522	1413.71	.701%	88.183%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	200.531	13.539	1427.249	.654%	89.028%
39.0	183.038	12.632	1439.88	.610%	89.816%
40.0	167.189	11.785	1451.665	.569%	90.551%
41.0	152.761	10.990	1462.656	.531%	91.236%
42.0	138.909	10.193	1472.848	.492%	91.872%
43.0	125.269	9.369	1482.217	.452%	92.457%
44.0	114.694	8.737	1490.954	.422%	93.002%
45.0	104.639	8.114	1499.068	.392%	93.508%
46.0	95.048	7.498	1506.566	.362%	93.975%
47.0	86.491	6.937	1513.503	.335%	94.408%
48.0	78.884	6.429	1519.931	.310%	94.809%
49.0	71.163	5.890	1525.821	.284%	95.176%
50.0	63.696	5.351	1531.171	.258%	95.510%
51.0	57.727	4.920	1536.091	.238%	95.817%
52.0	52.130	4.505	1540.596	.218%	96.098%
53.0	46.842	4.102	1544.698	.198%	96.354%
54.0	42.096	3.735	1548.433	.180%	96.587%
55.0	37.948	3.409	1551.842	.165%	96.800%
56.0	34.144	3.104	1554.946	.150%	96.993%
57.0	30.874	2.839	1557.785	.137%	97.170%
58.0	27.780	2.584	1560.369	.125%	97.331%
59.0	25.235	2.372	1562.741	.115%	97.479%
60.0	23.077	2.192	1564.932	.106%	97.616%
61.0	21.340	2.047	1566.979	.099%	97.744%
62.0	20.194	1.955	1568.934	.094%	97.866%
63.0	19.252	1.881	1570.815	.091%	97.983%
64.0	18.309	1.805	1572.62	.087%	98.096%
65.0	17.529	1.742	1574.362	.084%	98.204%
66.0	16.861	1.689	1576.051	.082%	98.310%
67.0	16.193	1.635	1577.686	.079%	98.412%
68.0	15.616	1.588	1579.274	.077%	98.511%
69.0	15.026	1.538	1580.812	.074%	98.607%
70.0	14.498	1.494	1582.306	.072%	98.700%
71.0	13.971	1.449	1583.755	.070%	98.790%
72.0	13.451	1.403	1585.157	.068%	98.878%
73.0	12.987	1.362	1586.519	.066%	98.963%
74.0	12.530	1.321	1587.84	.064%	99.045%
75.0	12.045	1.276	1589.116	.062%	99.125%

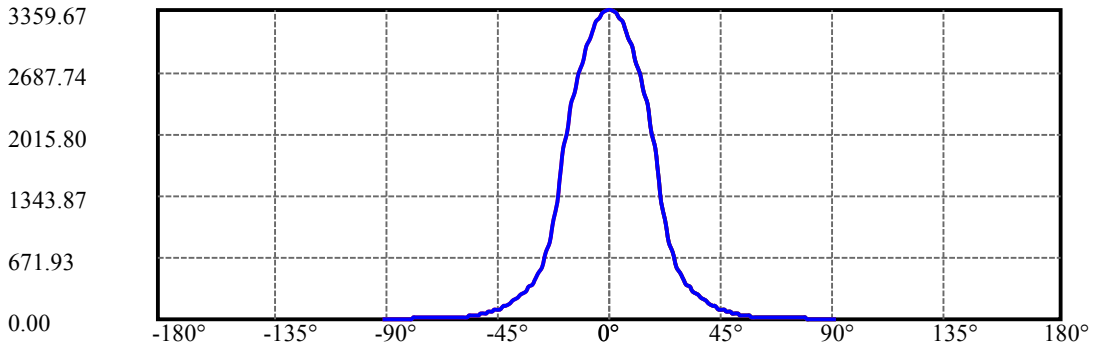
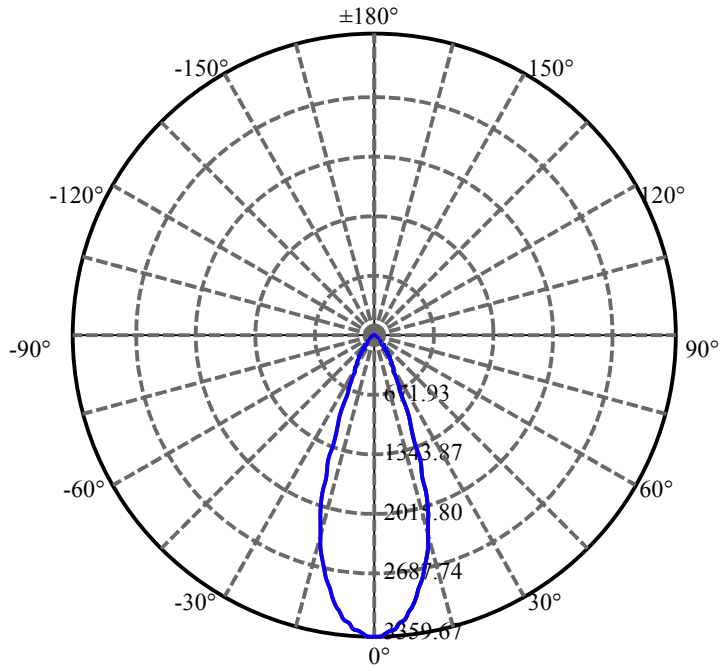
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.580	1.232	1590.348	.059%	99.202%
77.0	11.166	1.193	1591.541	.058%	99.276%
78.0	10.709	1.149	1592.69	.055%	99.348%
79.0	10.294	1.108	1593.798	.054%	99.417%
80.0	9.893	1.068	1594.866	.052%	99.483%
81.0	9.499	1.029	1595.895	.050%	99.548%
82.0	9.113	0.990	1596.885	.048%	99.609%
83.0	8.733	0.951	1597.835	.046%	99.669%
84.0	8.374	0.913	1598.749	.044%	99.726%
85.0	8.002	0.874	1599.623	.042%	99.780%
86.0	7.643	0.836	1600.459	.040%	99.832%
87.0	7.291	0.798	1601.257	.039%	99.882%
88.0	7.017	0.769	1602.026	.037%	99.930%
89.0	6.855	0.752	1602.778	.036%	99.977%
90.0	6.764	0.371	1603.149	.018%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1288.12	62.20%	80.35%
0-40	1451.67	70.09%	90.55%
0-60	1564.93	75.56%	97.62%
0-90	1602.78	77.39%	99.98%
0-120	1602.78	77.39%	99.98%
0-180	1603.15	77.41%	100.00%
60-90	40.04	1.93%	2.50%
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%
0-29.76	1282.52	61.93%	80.00%

ZONAL LUMEN SUMMARY

0-10	324.73
10-20	622.71
20-30	340.68
30-40	163.54
40-50	79.51
50-60	33.76
60-70	17.37
70-80	12.56
80-90	7.91
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

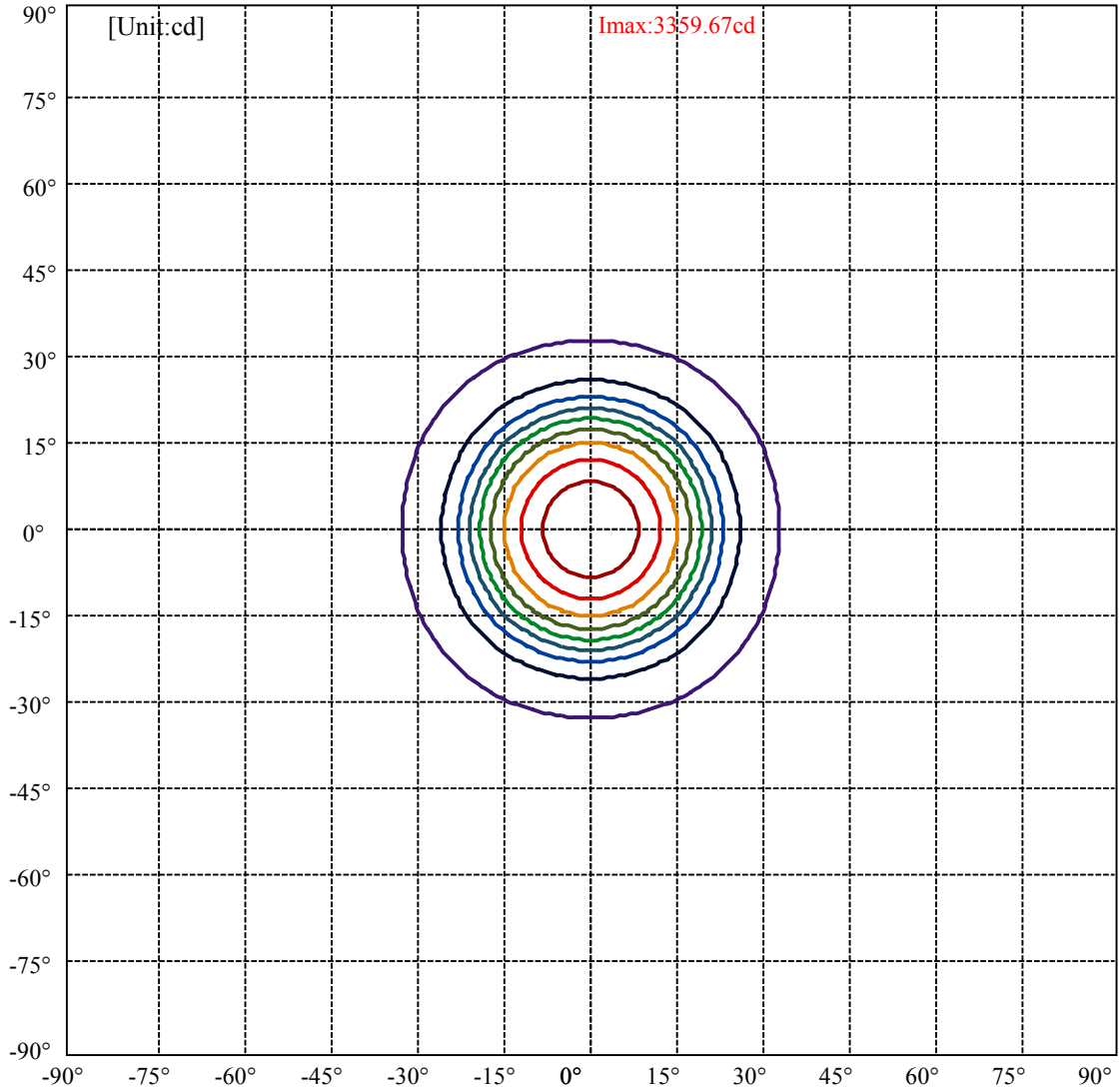


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:32.4 Right:32.4  
:C90/270Left:32.4 Right:32.4

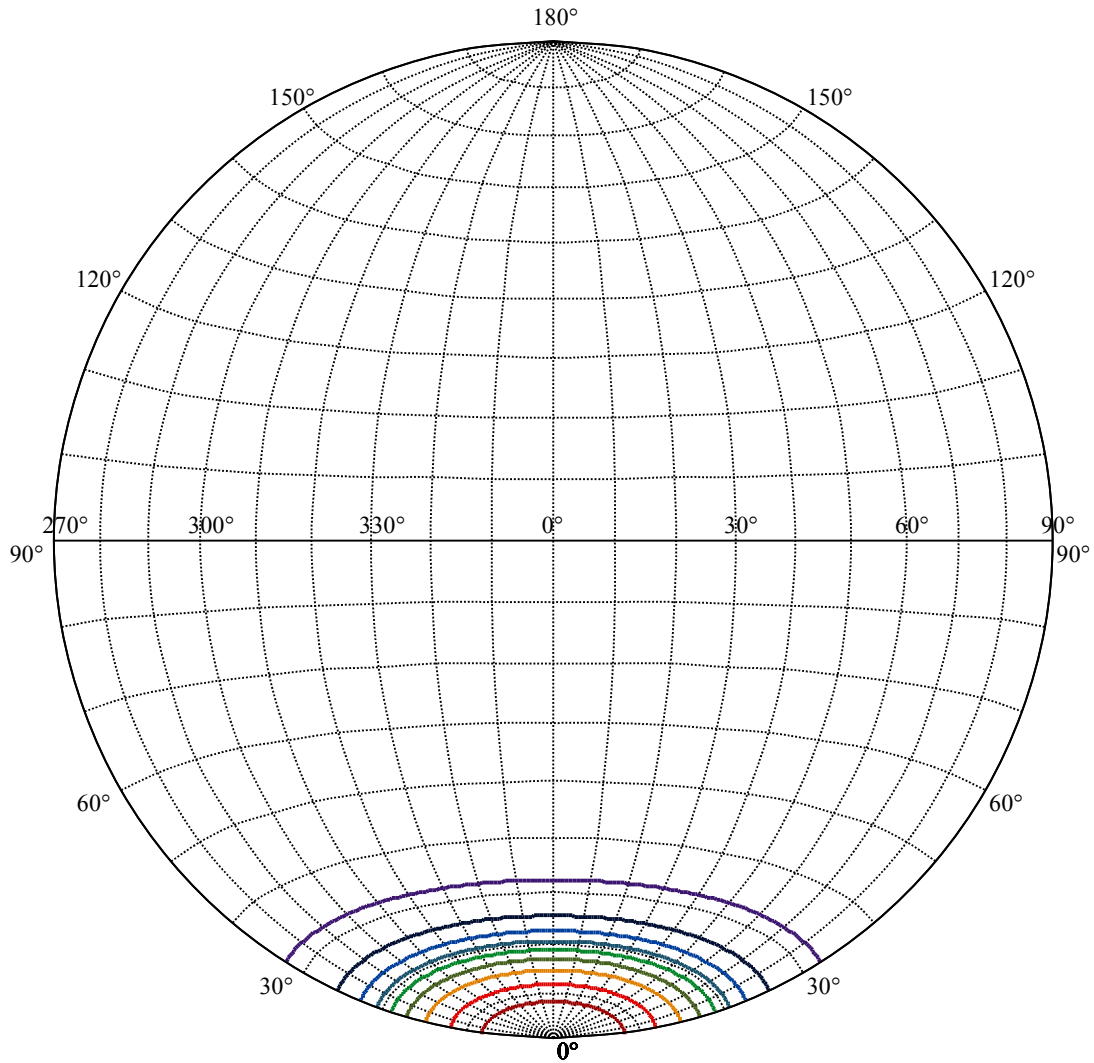
Beam Angle(50%Imax):C0/180Left:19.0 Right:19.0  
:C90/270Left:19.0 Right:19.0





(10%Imax) 335.967	—
(20%Imax) 671.934	—
(30%Imax) 1007.9	—
(40%Imax) 1343.87	—
(50%Imax) 1679.84	—
(60%Imax) 2015.8	—
(70%Imax) 2351.77	—
(80%Imax) 2687.74	—
(90%Imax) 3023.7	—





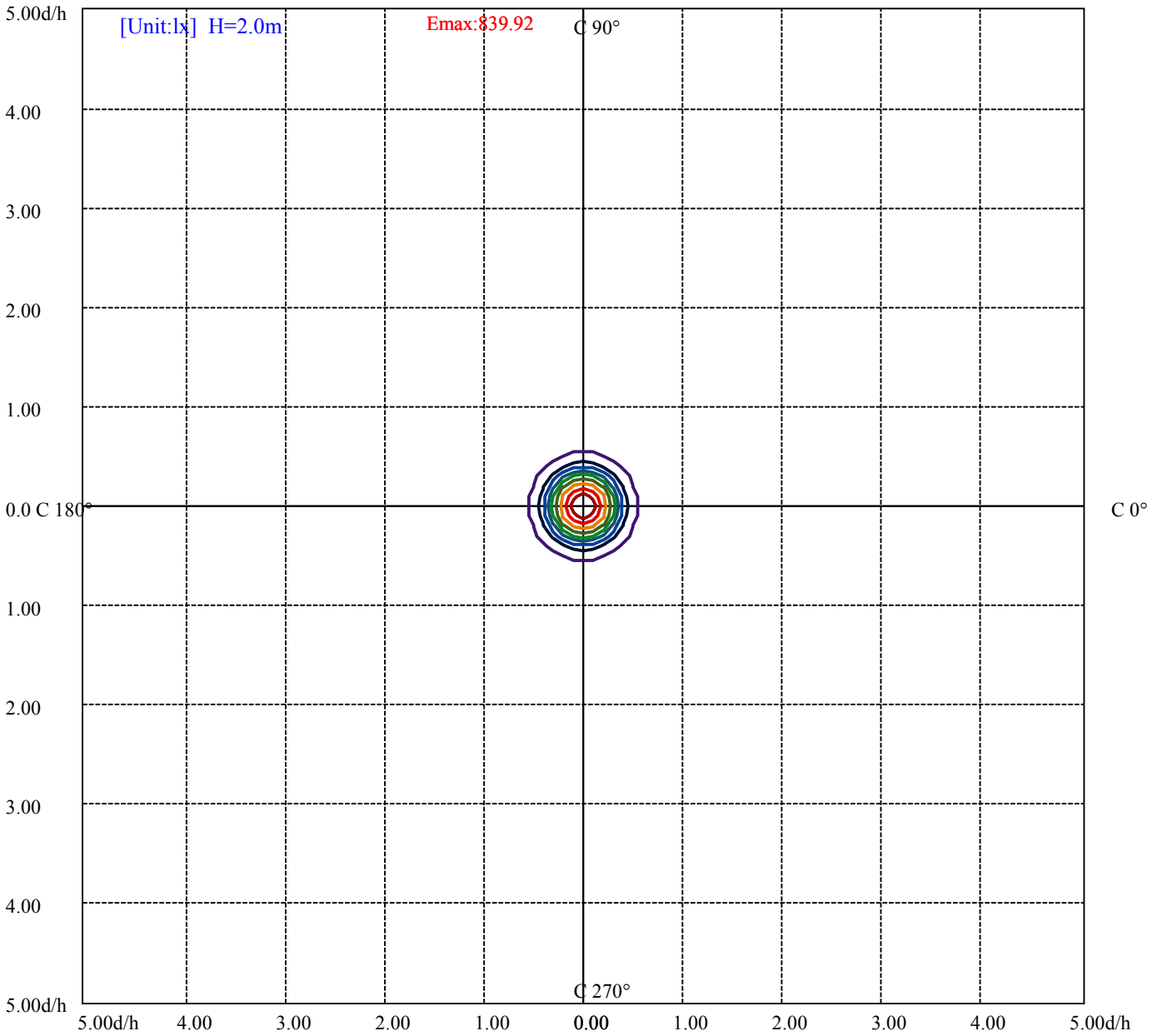
House

[Unit:cd]

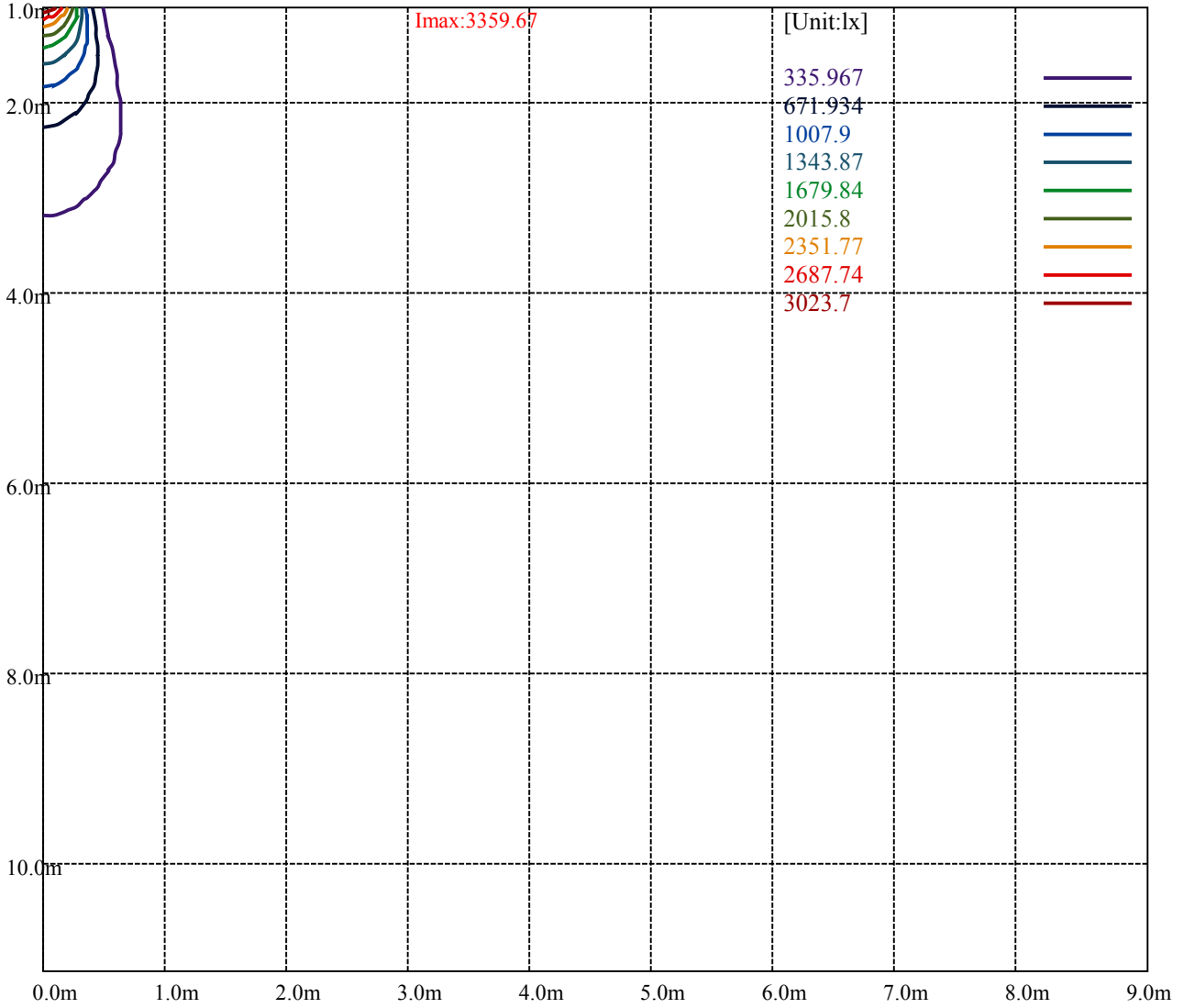
Road

**Imax:3359.67**

(10%Imax) 335.967	—
(20%Imax) 671.934	—
(30%Imax) 1007.9	—
(40%Imax) 1343.87	—
(50%Imax) 1679.84	—
(60%Imax) 2015.8	—
(70%Imax) 2351.77	—
(80%Imax) 2687.74	—
(90%Imax) 3023.7	—



(10%Emax) 83.99175	—
(20%Emax) 167.9835	—
(30%Emax) 251.975	—
(40%Emax) 335.9675	—
(50%Emax) 419.96	—
(60%Emax) 503.95	—
(70%Emax) 587.9425	—
(80%Emax) 671.935	—
(90%Emax) 755.925	—



Luminance Table

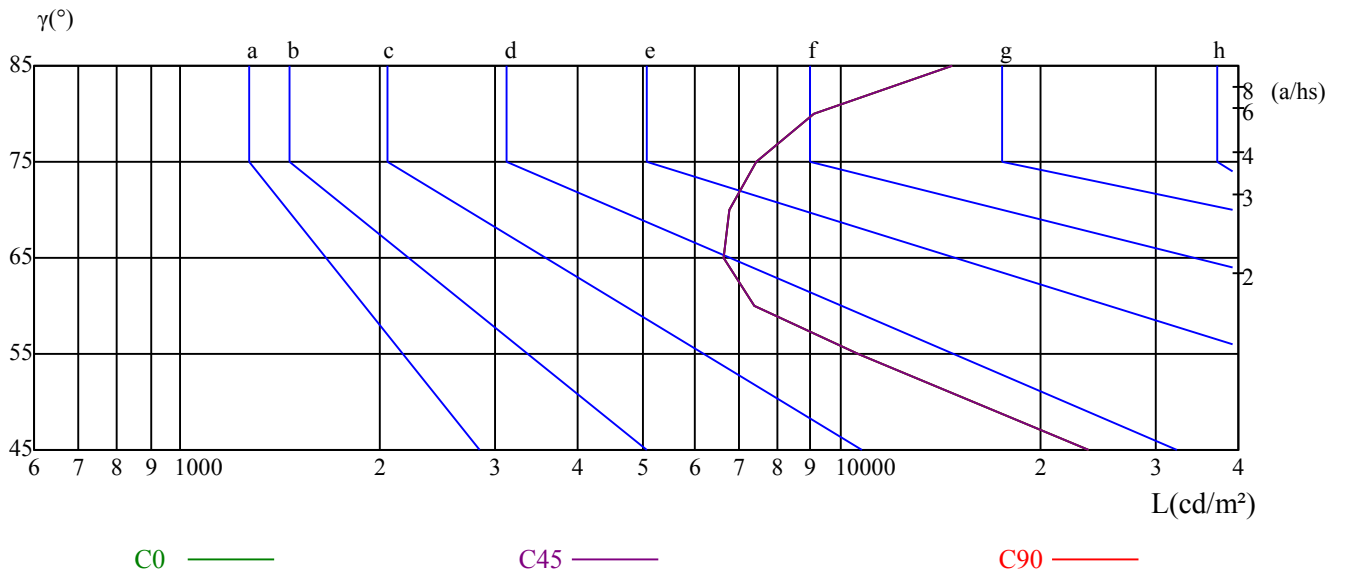
$\gamma$	45	50	55	60	65	70	75	80	85
C0	23711	15878	10601	7395	6646	6792	7457	9129	14710
C45	23711	15878	10601	7395	6646	6792	7457	9129	14710
C90	23711	15878	10601	7395	6646	6792	7457	9129	14710

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6646	6646	6646	7457	7457	7457	14710	14710	14710

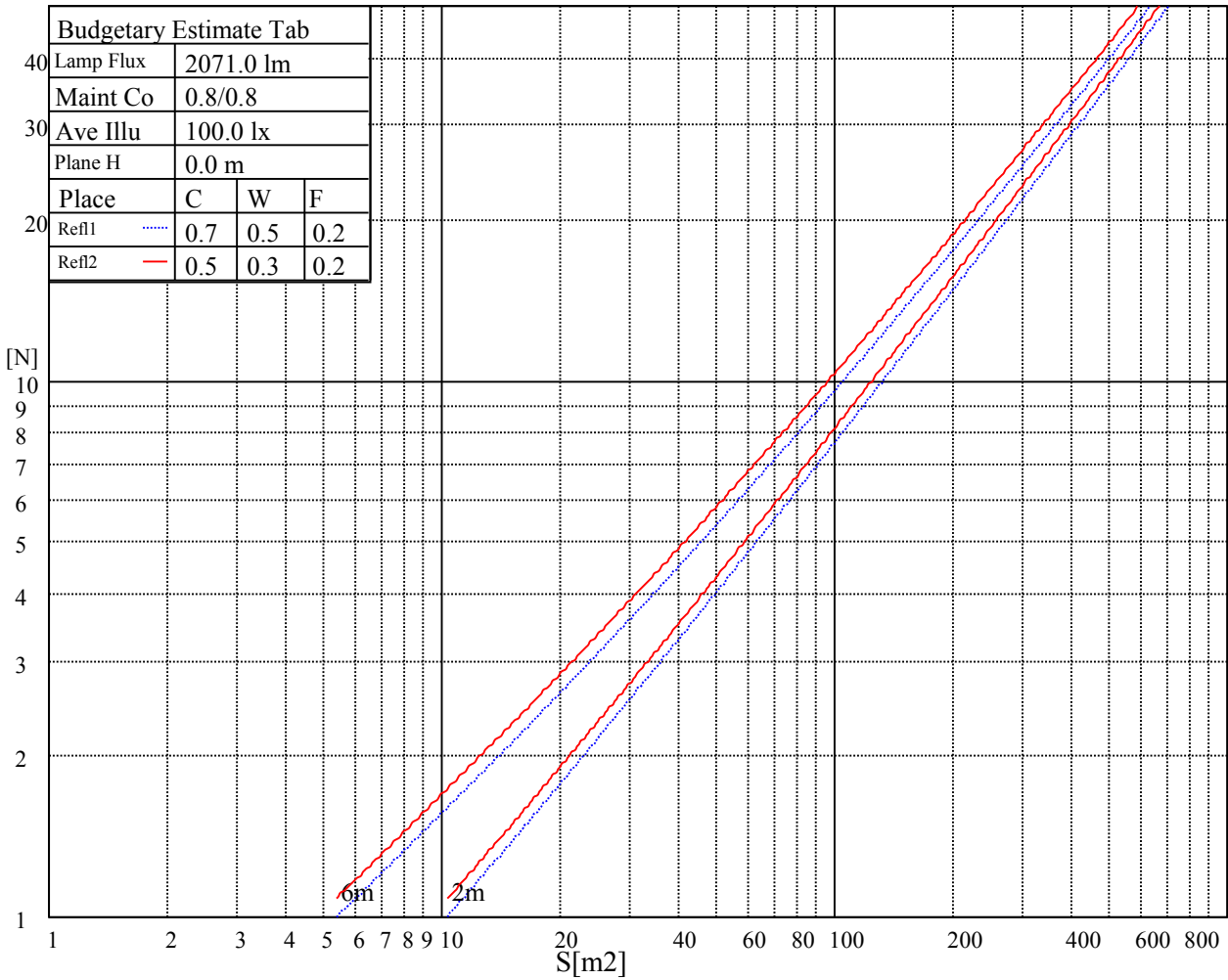
Glare Table

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

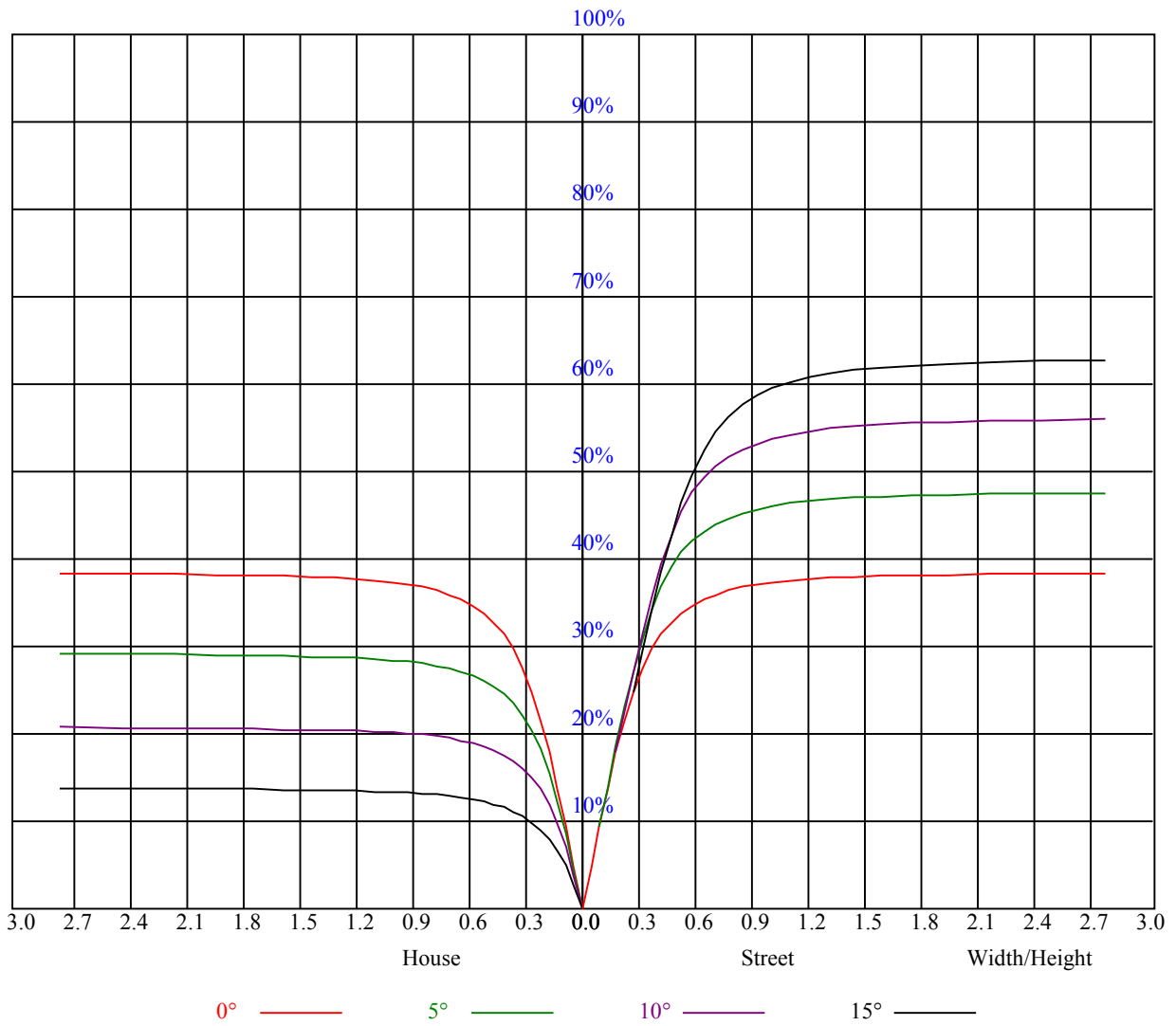
Luminance Limiting Curve



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	11.45	12.47	11.82	12.78	13.10	11.35	12.37	11.72	12.68	13.00
	3H	12.68	13.58	13.06	13.91	14.28	12.58	13.48	12.96	13.81	14.18
	4H	13.37	14.21	13.78	14.56	14.95	13.28	14.11	13.68	14.46	14.85
	6H	14.16	14.92	14.58	15.30	15.69	14.07	14.83	14.49	15.21	15.61
	8H	14.60	15.32	15.04	15.71	16.12	14.52	15.23	14.95	15.63	16.04
	12H	15.39	16.07	15.82	16.45	16.89	15.31	16.00	15.75	16.38	16.81
4H	2H	11.67	12.51	12.08	12.86	13.25	11.59	12.42	12.00	12.77	13.16
	3H	13.21	13.89	13.63	14.30	14.71	13.13	13.81	13.55	14.22	14.63
	4H	14.10	14.71	14.54	15.14	15.59	14.02	14.63	14.46	15.06	15.50
	6H	15.02	15.54	15.49	15.99	16.46	14.95	15.47	15.42	15.92	16.39
	8H	15.59	16.08	16.07	16.53	17.01	15.53	16.02	16.01	16.47	16.94
	12H	16.45	16.87	16.94	17.36	17.83	16.39	16.81	16.88	17.30	17.78
8H	4H	14.42	14.91	14.90	15.36	15.84	14.35	14.84	14.83	15.29	15.77
	6H	15.60	15.99	16.11	16.49	16.98	15.54	15.93	16.05	16.43	16.92
	8H	16.35	16.70	16.88	17.22	17.72	16.30	16.65	16.84	17.17	17.67
	12H	17.54	17.84	18.06	18.34	18.92	17.50	17.80	18.02	18.30	18.88
12H	4H	14.48	14.90	14.97	15.39	15.87	14.41	14.84	14.90	15.32	15.80
	6H	16.05	16.10	16.29	16.57	17.12	16.00	16.04	16.23	16.52	17.06
	8H	16.62	16.92	17.14	17.41	17.99	16.57	16.87	17.09	17.37	17.95
Variation with the observer position at spacings:											
S = 1.0H	2.1/-2.4					2.1/-2.4					
S = 1.5H	3.5/-2.6					3.5/-2.6					
S = 2.0H	4.8/-2.2					4.8/-2.2					
Standard tables:	BK3					BK3					
Uncorrected UGR	1.3					1.3					



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	0.92	0.92	0.92	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.77
1	0.86	0.84	0.82	0.84	0.83	0.81	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73
2	0.81	0.78	0.75	0.79	0.77	0.74	0.77	0.75	0.73	0.74	0.73	0.71	0.72	0.71	0.70	0.68
3	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.69	0.67	0.66	0.65
4	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.66	0.64	0.62	0.61
5	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.59	0.63	0.61	0.59	0.58
6	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
7	0.62	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.53
8	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.51	0.56	0.53	0.51	0.50
9	0.56	0.52	0.50	0.56	0.52	0.50	0.55	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.49	0.48
10	0.54	0.50	0.47	0.54	0.50	0.47	0.53	0.50	0.47	0.53	0.49	0.47	0.52	0.49	0.47	0.46





NATA 3-1700-N

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	3357.00	3355.88	3338.44	3310.88	3279.38	3237.75	3175.31	3116.25	3044.25
45.0	3363.75	3357.56	3339.00	3312.56	3276.56	3228.19	3174.75	3098.81	3019.50
90.0	3358.69	3347.44	3327.75	3291.19	3259.13	3214.13	3144.94	3072.94	2994.19
135.0	3359.25	3354.75	3340.69	3315.38	3284.44	3242.25	3196.13	3142.69	3078.56
180.0	3357.00	3348.00	3331.69	3308.63	3268.69	3230.44	3178.13	3116.81	3053.25
225.0	3363.75	3357.56	3346.31	3318.19	3287.81	3246.19	3196.69	3136.50	3075.19
270.0	3358.69	3359.25	3344.06	3323.25	3288.94	3242.25	3195.00	3134.25	3071.81
315.0	3359.25	3349.13	3331.13	3297.94	3258.56	3212.44	3163.50	3090.94	3018.38
360.0	3357.00	3355.88	3338.44	3310.88	3279.38	3237.75	3175.31	3116.25	3044.25
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2944.69	2859.19	2766.38	2656.13	2535.75	2422.13	2280.94	2136.94	1965.38
45.0	2932.88	2830.50	2739.38	2641.50	2504.25	2379.94	2250.56	2072.25	1909.69
90.0	2886.75	2799.00	2705.06	2576.25	2482.31	2350.69	2181.94	2052.00	1892.81
135.0	2993.63	2905.88	2821.50	2710.69	2617.88	2512.13	2400.75	2238.75	2095.31
180.0	2975.06	2873.25	2789.44	2703.38	2586.94	2480.63	2365.88	2220.75	2059.31
225.0	2989.69	2906.44	2824.31	2731.50	2644.88	2540.81	2421.00	2302.31	2168.44
270.0	2993.06	2905.31	2822.06	2737.13	2626.31	2532.94	2423.81	2273.63	2139.19
315.0	2943.00	2841.19	2754.56	2660.06	2544.19	2422.13	2301.19	2147.63	1997.44
360.0	2944.69	2859.19	2766.38	2656.13	2535.75	2422.13	2280.94	2136.94	1965.38
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1777.50	1607.06	1411.31	1218.94	1067.63	932.63	788.63	692.44	615.94
45.0	1736.44	1557.56	1331.44	1159.88	1008.00	850.50	743.63	644.63	577.13
90.0	1653.75	1494.56	1315.13	1099.35	952.26	829.86	726.13	623.14	559.01
135.0	1954.13	1742.06	1528.88	1369.69	1152.56	986.06	873.00	736.88	651.94
180.0	1899.00	1711.69	1535.63	1337.06	1109.19	1000.63	859.11	730.91	657.79
225.0	1983.94	1820.25	1653.19	1434.38	1121.79	1102.56	929.59	815.18	718.88
270.0	1994.06	1816.31	1629.56	1458.00	1269.56	1096.88	960.19	825.75	727.88
315.0	1817.44	1626.75	1452.94	1120.44	1082.93	943.37	825.64	704.76	627.98
360.0	1777.50	1607.06	1411.31	1218.94	1067.63	932.63	788.63	692.44	615.94
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	547.88	489.94	446.63	402.75	365.63	335.25	305.44	286.31	252.56
45.0	516.94	465.75	426.38	390.94	351.00	323.44	294.19	285.75	241.20
90.0	506.64	456.30	411.75	375.19	339.58	309.15	284.23	259.48	238.67
135.0	583.31	514.69	469.13	429.19	383.63	351.00	320.63	289.13	285.75
180.0	589.22	513.62	473.01	431.44	389.03	351.90	322.88	294.19	267.98
225.0	621.96	567.23	509.46	456.24	423.00	383.68	344.93	319.61	292.56
270.0	636.19	565.31	514.69	469.69	420.19	385.31	354.94	318.94	293.63
315.0	564.02	505.80	456.30	416.81	376.37	341.55	312.86	283.84	260.33
360.0	547.88	489.94	446.63	402.75	365.63	335.25	305.44	286.31	252.56
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	234.23	210.15	193.33	177.64	160.26	146.93	134.38	120.21	110.48
45.0	222.75	206.38	184.05	168.30	157.11	138.83	124.99	115.76	103.67
90.0	217.07	197.04	180.90	165.21	151.37	137.98	126.06	113.51	104.29
135.0	243.17	220.73	200.53	185.06	168.53	154.29	139.50	125.94	115.65
180.0	246.32	224.21	206.33	187.03	170.44	156.83	143.44	128.53	118.24
225.0	262.97	241.37	220.95	197.61	181.86	167.57	151.99	136.80	125.33
270.0	284.63	244.58	219.77	201.38	183.21	169.31	153.96	139.11	127.91
315.0	236.81	215.89	198.39	182.08	164.76	150.36	136.97	122.29	111.99
360.0	234.23	210.15	193.33	177.64	160.26	146.93	134.38	120.21	110.48

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	101.36	90.84	83.14	75.71	67.89	60.75	55.18	49.61	44.61
45.0	94.16	87.30	78.08	71.21	64.69	57.38	52.14	47.31	41.91
90.0	95.74	87.08	79.09	72.28	65.03	58.44	53.16	47.76	43.37
135.0	105.30	95.68	88.20	80.66	72.06	65.48	59.40	53.27	47.81
180.0	108.62	97.99	89.78	82.35	74.98	66.54	60.41	54.79	48.99
225.0	113.46	103.56	93.60	84.54	76.89	68.74	61.31	55.63	50.46
270.0	116.16	105.41	96.69	88.43	79.59	71.33	64.63	58.67	52.14
315.0	102.32	92.53	83.36	75.88	68.18	60.92	55.58	50.01	45.45
360.0	101.36	90.84	83.14	75.71	67.89	60.75	55.18	49.61	44.61
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	40.56	36.34	33.02	29.70	26.66	24.30	22.11	20.64	19.63
45.0	37.91	34.43	30.54	27.79	25.43	23.18	21.43	20.36	19.35
90.0	38.81	34.82	31.73	28.97	25.82	23.68	22.05	20.59	19.63
135.0	43.14	38.59	34.54	31.39	28.24	25.76	23.34	21.60	20.53
180.0	43.82	39.71	35.55	31.89	28.97	26.10	23.79	21.77	20.59
225.0	44.49	40.33	36.56	32.74	29.31	26.66	24.47	22.11	20.87
270.0	47.31	42.92	38.19	34.59	31.33	28.01	25.09	22.95	21.26
315.0	40.73	36.45	33.02	29.93	26.49	24.19	22.33	20.70	19.69
360.0	40.56	36.34	33.02	29.70	26.66	24.30	22.11	20.64	19.63
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.79	17.83	17.16	16.54	15.86	15.30	14.74	14.18	13.67
45.0	18.51	17.66	16.88	16.31	15.69	15.13	14.57	14.12	13.56
90.0	18.84	18.00	17.21	16.59	16.03	15.47	14.85	14.29	13.84
135.0	19.58	18.56	17.78	17.16	16.37	15.86	15.30	14.74	14.18
180.0	19.58	18.62	17.83	17.16	16.48	15.75	15.30	14.74	14.23
225.0	19.74	18.84	18.00	17.16	16.54	15.98	15.24	14.74	14.23
270.0	20.19	19.07	18.28	17.55	16.82	16.14	15.58	15.13	14.40
315.0	18.79	17.89	17.10	16.43	15.75	15.30	14.63	14.06	13.67
360.0	18.79	17.83	17.16	16.54	15.86	15.30	14.74	14.18	13.67
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.16	12.71	12.32	11.81	11.36	10.97	10.58	10.07	9.73
45.0	13.05	12.71	12.15	11.64	11.31	10.80	10.35	10.01	9.56
90.0	13.28	12.83	12.38	11.93	11.42	10.97	10.58	10.18	9.73
135.0	13.67	13.16	12.71	12.21	11.76	11.42	10.86	10.41	10.13
180.0	13.67	13.16	12.71	12.15	11.76	11.31	10.80	10.41	10.01
225.0	13.73	13.22	12.77	12.38	11.76	11.42	10.97	10.52	10.13
270.0	13.89	13.50	12.94	12.43	12.04	11.53	11.08	10.69	10.18
315.0	13.16	12.60	12.26	11.81	11.25	10.91	10.46	10.07	9.68
360.0	13.16	12.71	12.32	11.81	11.36	10.97	10.58	10.07	9.73
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.28	8.94	8.61	8.21	7.82	7.54	7.14	6.92	6.75
45.0	9.23	8.89	8.49	8.16	7.76	7.43	7.09	6.92	6.81
90.0	9.39	9.06	8.66	8.27	7.88	7.48	7.14	6.86	6.81
135.0	9.68	9.28	9.00	8.66	8.27	7.82	7.48	7.09	6.92
180.0	9.62	9.23	8.89	8.49	8.10	7.76	7.37	7.03	6.81
225.0	9.73	9.28	8.89	8.49	8.21	7.82	7.48	7.20	6.98
270.0	9.79	9.39	8.83	8.55	8.16	7.82	7.48	7.14	6.98
315.0	9.28	8.83	8.49	8.16	7.82	7.48	7.14	6.98	6.81
360.0	9.28	8.94	8.61	8.21	7.82	7.54	7.14	6.92	6.75

Intensity data(cd)

C/γ(°)	90.0
0.0	6.75
45.0	6.75
90.0	6.81
135.0	6.75
180.0	6.69
225.0	6.75
270.0	6.81
315.0	6.81
360.0	6.75