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NATA

LumCAT: 2977-E	
Luminaire: 92.76.233.00	
Report No: NATA0100	Voltage(V): 218.2000
Test No: GC2019022511	Current(A): 0.0360
LampCAT: PL-CORE-AC-800-G2 LES15	Power (W): 7.9000
Lamp flux(lm): 765.0	PF: 0.9850
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 688.23
Efficiency(%): 89.96%
Lumens(lm)/Power(W): 87.21
Central intensity(cd): 3267.984
Maximum intensity(cd): 3267.984
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=43.9
 [C90/270]Total=43.9
Maximum s/h(1/2): C0_180=0.34 C90_270=0.34
Maximum s/h(1/4): C0_180=0.34 C90_270=0.34
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.06%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.655%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3267.984	0.782	0.782	.102%	.114%
1.0	3247.242	6.215	6.997	.812%	1.017%
2.0	3190.922	12.212	19.209	1.596%	2.791%
3.0	3084.117	17.700	36.909	2.314%	5.363%
4.0	2943.211	22.514	59.423	2.943%	8.634%
5.0	2770.242	26.477	85.9	3.461%	12.481%
6.0	2573.648	29.501	115.401	3.856%	16.768%
7.0	2333.109	31.180	146.581	4.076%	21.298%
8.0	2117.250	32.313	178.894	4.224%	25.993%
9.0	1869.539	32.071	210.966	4.192%	30.653%
10.0	1578.994	30.068	241.034	3.930%	35.022%
11.0	1382.667	28.931	269.965	3.782%	39.226%
12.0	1194.778	27.241	297.206	3.561%	43.184%
13.0	988.052	24.374	321.579	3.186%	46.725%
14.0	836.388	22.189	343.768	2.901%	49.949%
15.0	709.713	20.143	363.912	2.633%	52.876%
16.0	593.613	17.943	381.854	2.345%	55.483%
17.0	515.566	16.530	398.384	2.161%	57.885%
18.0	453.727	15.375	413.76	2.010%	60.119%
19.0	405.991	14.495	428.255	1.895%	62.225%
20.0	372.101	13.956	442.211	1.824%	64.253%
21.0	345.825	13.591	455.801	1.777%	66.228%
22.0	325.266	13.362	469.163	1.747%	68.169%
23.0	310.627	13.310	482.473	1.740%	70.103%
24.0	298.027	13.293	495.766	1.738%	72.035%
25.0	287.395	13.319	509.085	1.741%	73.970%
26.0	280.512	13.485	522.57	1.763%	75.929%
27.0	273.980	13.640	536.21	1.783%	77.911%
28.0	267.180	13.755	549.965	1.798%	79.910%
29.0	262.575	13.960	563.925	1.825%	81.938%
30.0	258.469	14.172	578.097	1.853%	83.997%
31.0	251.859	14.225	592.322	1.859%	86.064%
32.0	241.502	14.034	606.356	1.835%	88.103%
33.0	227.348	13.579	619.934	1.775%	90.076%
34.0	203.815	12.498	632.432	1.634%	91.892%
35.0	177.321	11.153	643.586	1.458%	93.513%
36.0	145.223	9.361	652.946	1.224%	94.873%
37.0	110.918	7.320	660.266	.957%	95.937%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	78.785	5.319	665.586	.695%	96.709%
39.0	51.855	3.579	669.164	.468%	97.229%
40.0	30.860	2.175	671.339	.284%	97.546%
41.0	18.387	1.323	672.662	.173%	97.738%
42.0	11.152	0.818	673.481	.107%	97.857%
43.0	8.149	0.609	674.09	.080%	97.945%
44.0	6.863	0.523	674.613	.068%	98.021%
45.0	6.012	0.466	675.079	.061%	98.089%
46.0	5.379	0.424	675.503	.055%	98.151%
47.0	4.816	0.386	675.89	.050%	98.207%
48.0	4.486	0.366	676.255	.048%	98.260%
49.0	3.670	0.304	676.559	.040%	98.304%
50.0	3.452	0.290	676.849	.038%	98.346%
51.0	3.403	0.290	677.139	.038%	98.388%
52.0	3.333	0.288	677.427	.038%	98.430%
53.0	3.291	0.288	677.715	.038%	98.472%
54.0	3.248	0.288	678.003	.038%	98.514%
55.0	3.185	0.286	678.289	.037%	98.555%
56.0	3.150	0.286	678.576	.037%	98.597%
57.0	3.122	0.287	678.863	.038%	98.639%
58.0	3.073	0.286	679.149	.037%	98.680%
59.0	3.045	0.286	679.435	.037%	98.722%
60.0	3.009	0.286	679.721	.037%	98.763%
61.0	2.988	0.287	680.007	.037%	98.805%
62.0	2.967	0.287	680.295	.038%	98.847%
63.0	2.939	0.287	680.582	.038%	98.888%
64.0	2.918	0.288	680.869	.038%	98.930%
65.0	2.890	0.287	681.157	.038%	98.972%
66.0	2.869	0.287	681.444	.038%	99.014%
67.0	2.855	0.288	681.732	.038%	99.056%
68.0	2.841	0.289	682.021	.038%	99.098%
69.0	2.827	0.289	682.31	.038%	99.140%
70.0	2.798	0.288	682.599	.038%	99.181%
71.0	2.770	0.287	682.886	.038%	99.223%
72.0	2.770	0.289	683.175	.038%	99.265%
73.0	2.756	0.289	683.464	.038%	99.307%
74.0	2.749	0.290	683.754	.038%	99.349%
75.0	2.735	0.290	684.043	.038%	99.391%

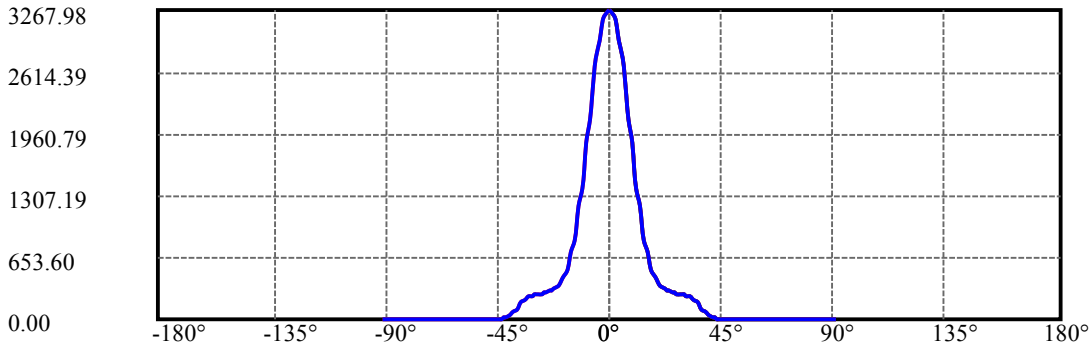
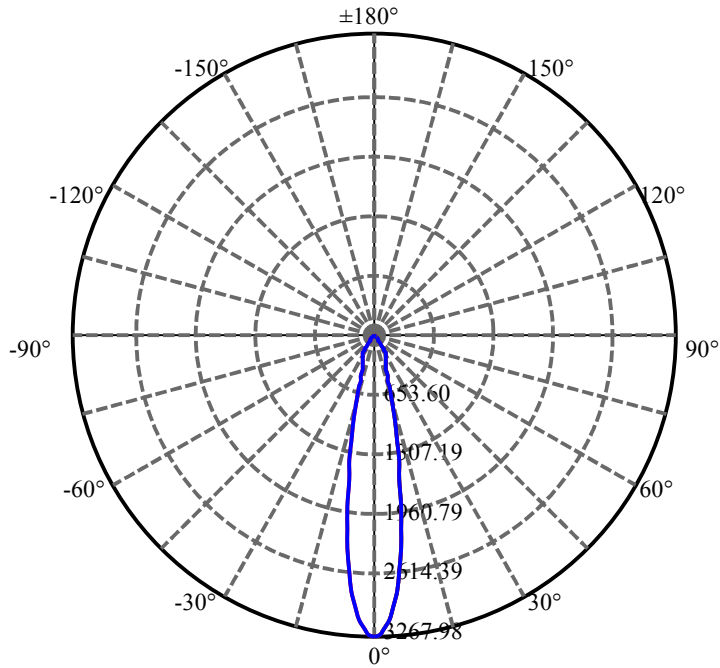
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.721	0.290	684.333	.038%	99.433%
77.0	2.707	0.289	684.622	.038%	99.475%
78.0	2.707	0.290	684.913	.038%	99.518%
79.0	2.693	0.290	685.202	.038%	99.560%
80.0	2.693	0.291	685.493	.038%	99.602%
81.0	2.672	0.289	685.783	.038%	99.644%
82.0	2.679	0.291	686.074	.038%	99.686%
83.0	2.679	0.292	686.365	.038%	99.729%
84.0	2.665	0.291	686.656	.038%	99.771%
85.0	2.658	0.290	686.946	.038%	99.813%
86.0	2.644	0.289	687.235	.038%	99.855%
87.0	2.616	0.286	687.522	.037%	99.897%
88.0	2.602	0.285	687.807	.037%	99.938%
89.0	2.588	0.284	688.091	.037%	99.979%
90.0	2.580	0.141	688.232	.018%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	578.10	75.57%	84.00%
0-40	671.34	87.76%	97.55%
0-60	679.72	88.85%	98.76%
0-90	688.09	89.95%	99.98%
0-120	688.09	89.95%	99.98%
0-180	688.23	89.96%	100.00%
60-90	8.66	1.13%	1.26%
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%
0-28.04	550.59	71.97%	80.00%

ZONAL LUMEN SUMMARY

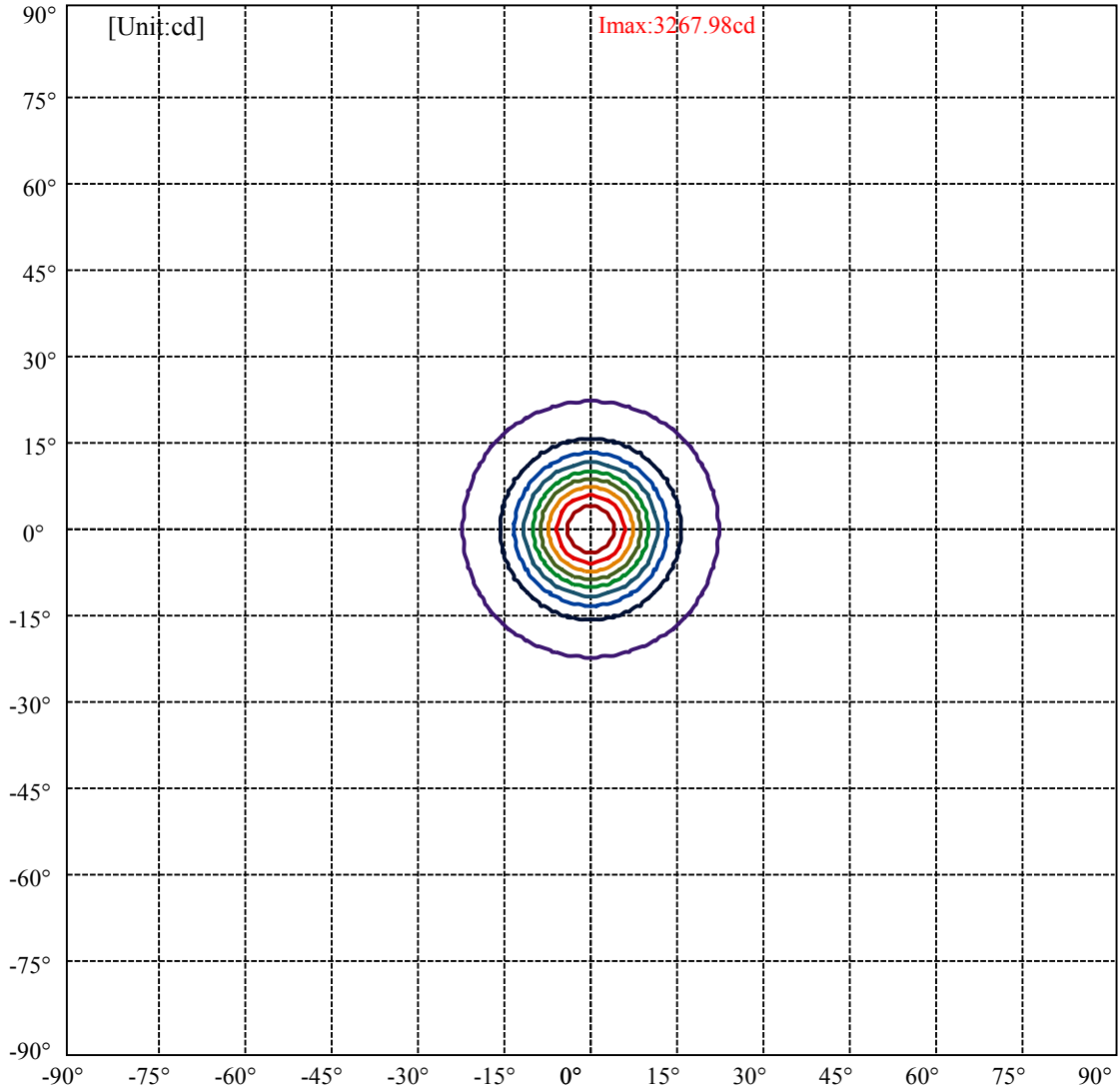
0-10	241.03
10-20	201.18
20-30	135.89
30-40	93.24
40-50	5.51
50-60	2.87
60-70	2.88
70-80	2.89
80-90	2.60
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



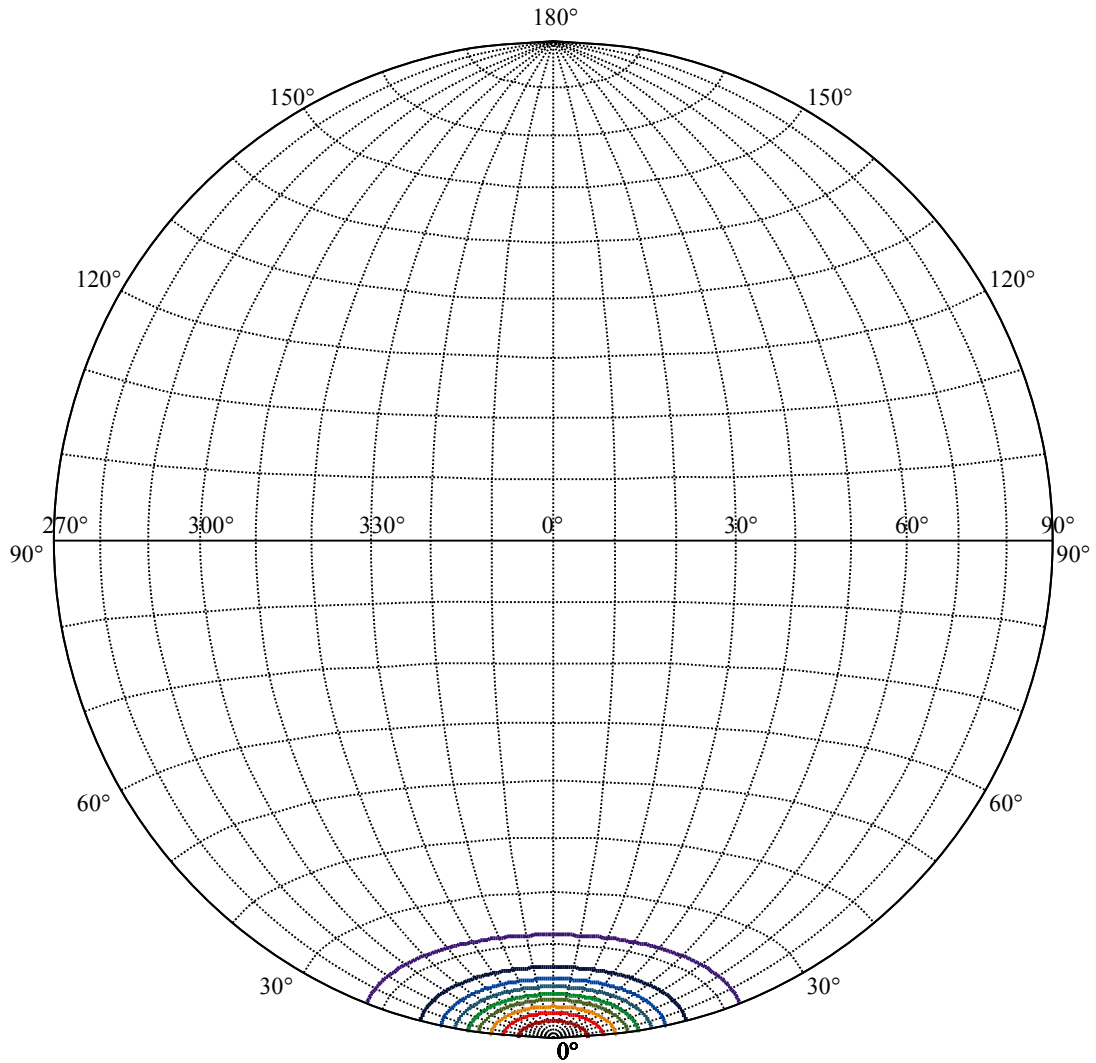
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:21.9 Right:21.9
:C90/270Left:21.9 Right:21.9

Beam Angle(50%Imax):C0/180Left:9.8 Right:9.8
:C90/270Left:9.8 Right:9.8



(10%Imax) 326.798	—
(20%Imax) 653.597	—
(30%Imax) 980.395	—
(40%Imax) 1307.19	—
(50%Imax) 1633.99	—
(60%Imax) 1960.79	—
(70%Imax) 2287.59	—
(80%Imax) 2614.39	—
(90%Imax) 2941.19	—



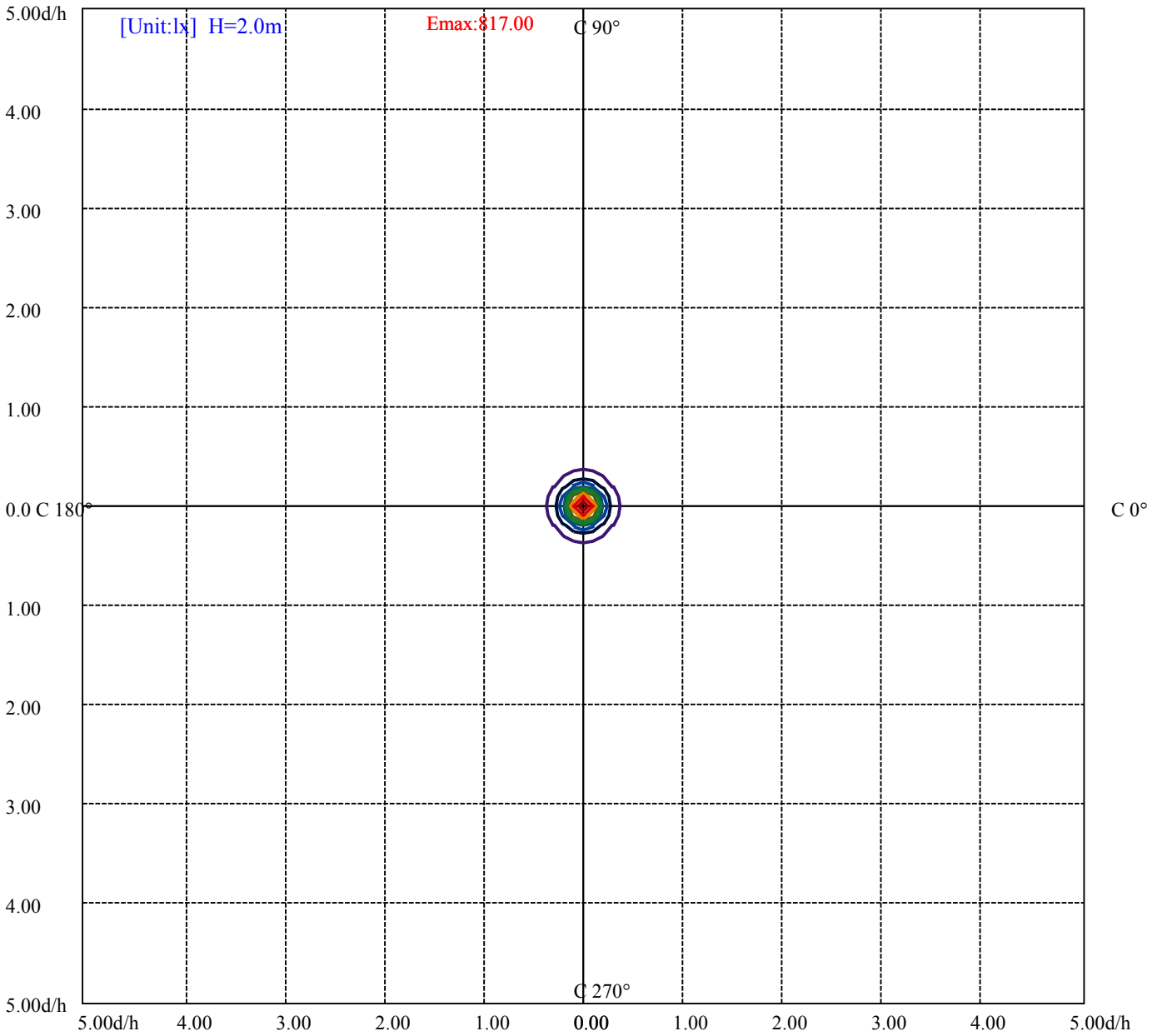
House

[Unit:cd]

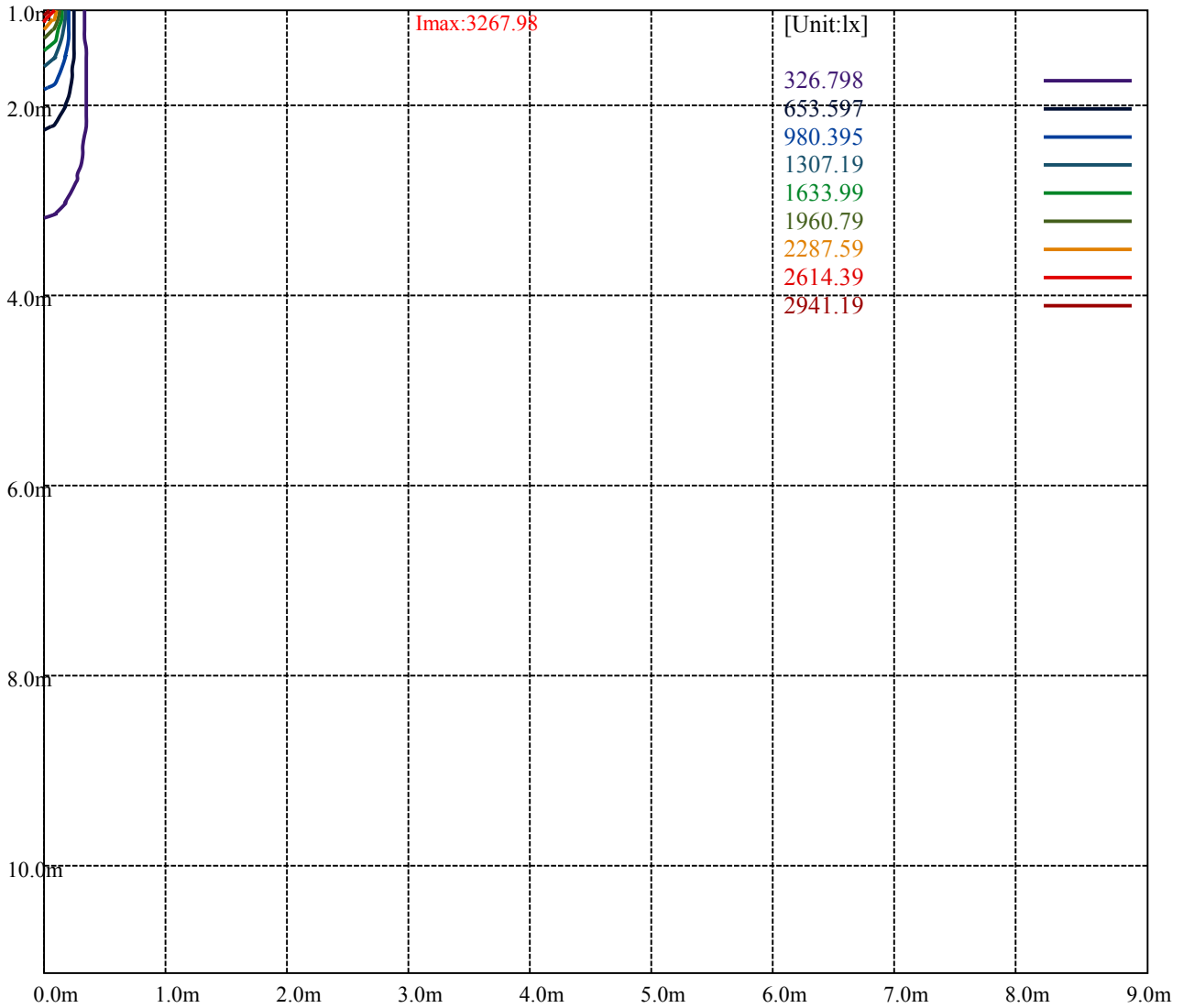
Road

Imax:3267.98

(10%Imax)	326.798	—
(20%Imax)	653.597	—
(30%Imax)	980.395	—
(40%Imax)	1307.19	—
(50%Imax)	1633.99	—
(60%Imax)	1960.79	—
(70%Imax)	2287.59	—
(80%Imax)	2614.39	—
(90%Imax)	2941.19	—



- (10%Emax) 81.6995
- (20%Emax) 163.399
- (30%Emax) 245.0985
- (40%Emax) 326.7975
- (50%Emax) 408.4975
- (60%Emax) 490.1975
- (70%Emax) 571.8975
- (80%Emax) 653.5975
- (90%Emax) 735.295



Luminance Table

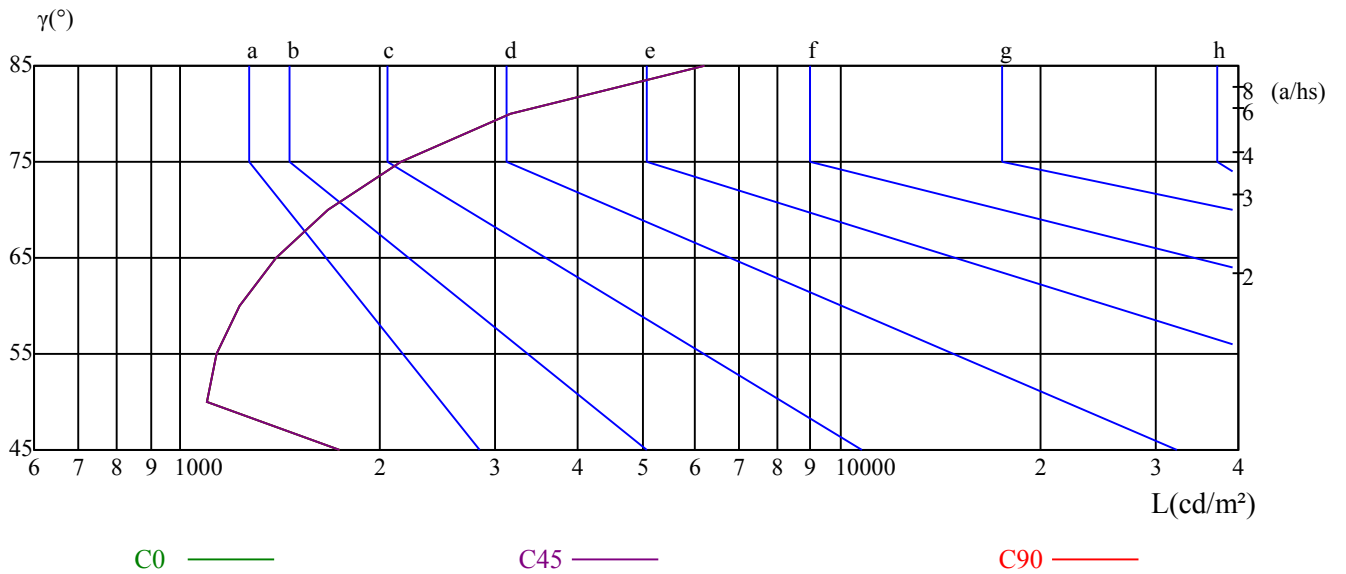
γ	45	50	55	60	65	70	75	80	85
C0	1735	1096	1133	1228	1396	1670	2157	3165	6223
C45	1735	1096	1133	1228	1396	1670	2157	3165	6223
C90	1735	1096	1133	1228	1396	1670	2157	3165	6223

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1396	1396	1396	2157	2157	2157	6223	6223	6223

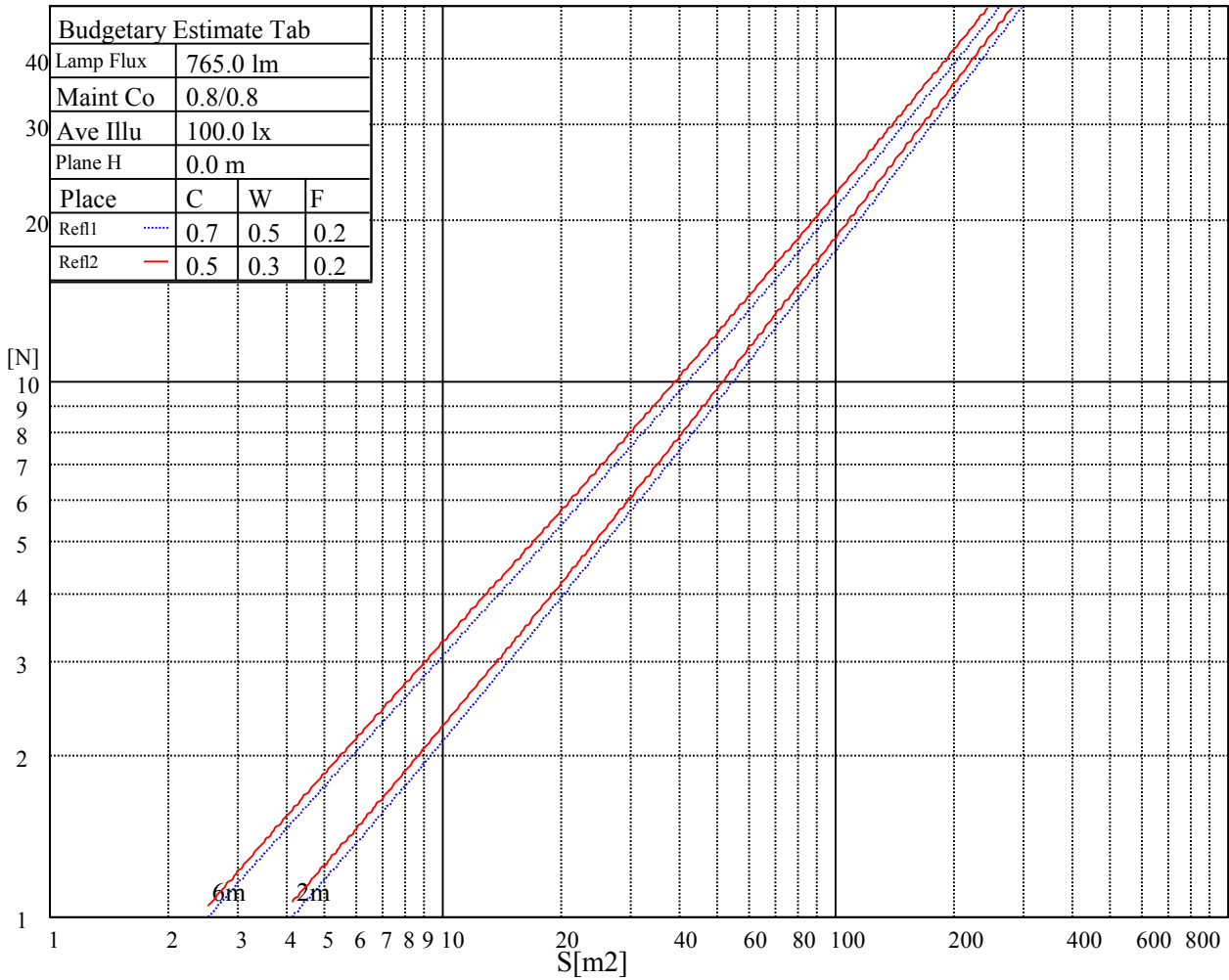
Glare Table

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

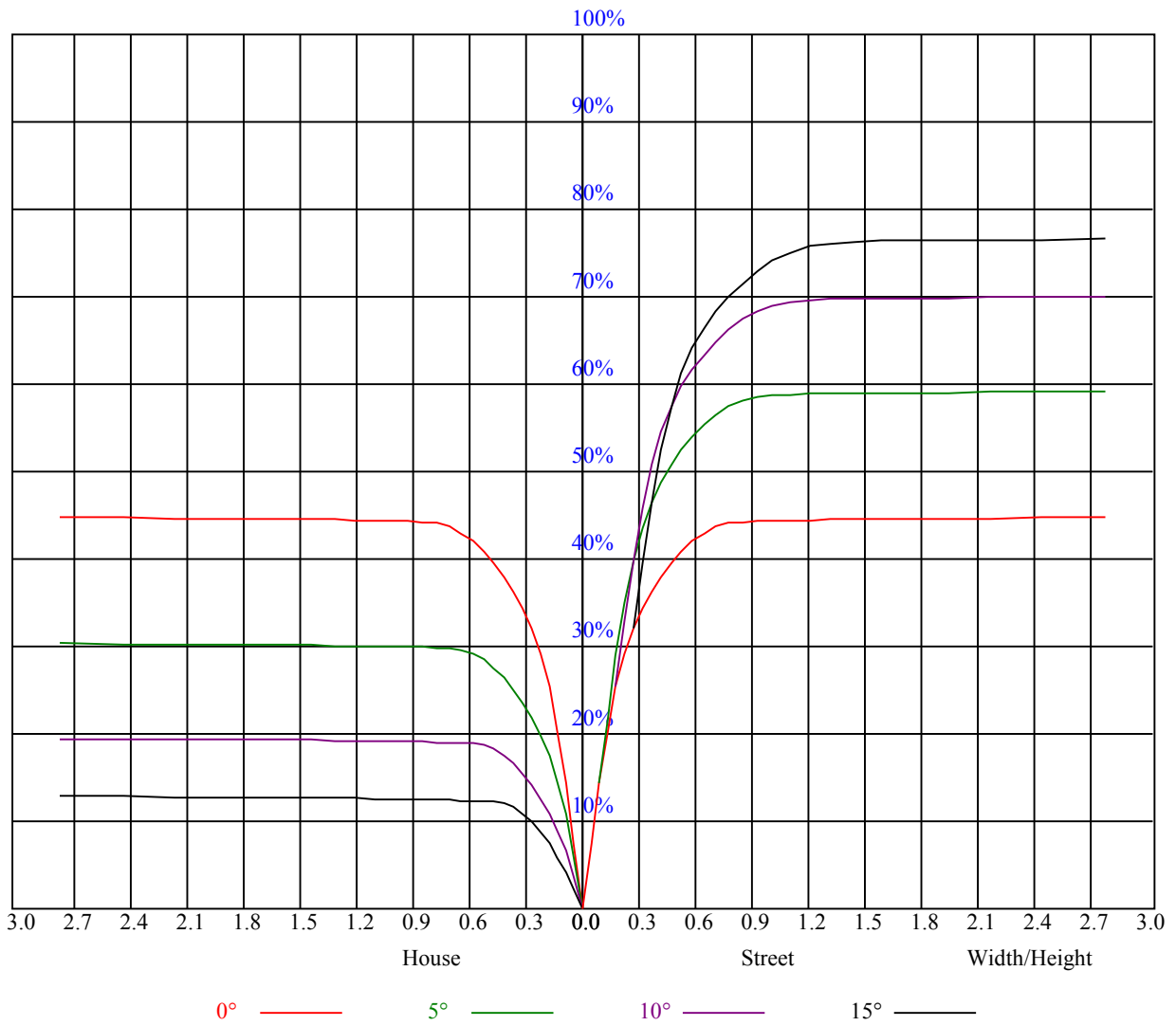
Luminance Limiting Curve



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	2.47	3.38	2.83	3.69	4.01	2.46	3.37	2.83	3.68	4.00
	3H	5.59	6.40	5.98	6.73	7.10	5.58	6.39	5.97	6.72	7.09
	4H	7.30	8.05	7.71	8.40	8.79	7.28	8.02	7.69	8.38	8.77
	6H	9.20	9.88	9.62	10.26	10.66	9.20	9.88	9.62	10.25	10.65
	8H	10.26	10.90	10.70	11.29	11.70	10.27	10.90	10.71	11.30	11.71
	12H	12.00	12.61	12.44	12.99	13.43	12.01	12.62	12.45	13.00	13.43
4H	2H	3.35	4.09	3.76	4.44	4.84	3.34	4.09	3.75	4.44	4.83
	3H	6.71	7.32	7.13	7.73	8.14	6.70	7.31	7.12	7.72	8.13
	4H	8.59	9.14	9.03	9.56	10.01	8.57	9.12	9.01	9.54	9.99
	6H	10.65	11.11	11.12	11.56	12.04	10.64	11.10	11.11	11.56	12.03
	8H	11.81	12.25	12.29	12.70	13.17	11.81	12.25	12.29	12.70	13.18
8H	12H	13.46	13.83	13.95	14.32	14.80	13.46	13.84	13.96	14.33	14.80
	4H	9.30	9.73	9.78	10.18	10.66	9.28	9.72	9.76	10.17	10.64
	6H	11.63	11.98	12.15	12.48	12.97	11.63	11.97	12.14	12.48	12.96
	8H	12.99	13.29	13.53	13.82	14.31	13.00	13.30	13.53	13.82	14.32
12H	12H	14.78	15.04	15.31	15.54	16.12	14.78	15.04	15.31	15.54	16.12
	4H	9.50	9.87	9.99	10.36	10.84	9.48	9.86	9.98	10.35	10.82
	6H	12.14	12.25	12.49	12.72	13.27	12.14	12.25	12.48	12.72	13.27
	8H	13.44	13.69	13.96	14.19	14.77	13.44	13.70	13.96	14.20	14.78
Variation with the observer position at spacings:											
S = 1.0H	5.7/-8.3					5.7/-8.3					
S = 1.5H	8.0/-6.3					8.0/-6.3					
S = 2.0H	9.4/-4.8					9.4/-4.8					
Standard tables:	BK2					BK2					
Uncorrected UGR	-2.5					-2.5					



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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.86	0.82	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.69
7	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
8	0.74	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.65
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.61



NATA 2977-E

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	3250.69	3285.00	3279.94	3223.13	3127.50	2975.63	2795.63	2613.94	2414.81
45.0	3260.25	3308.06	3318.75	3294.56	3223.69	3103.31	2955.38	2755.13	2557.69
90.0	3287.81	3302.44	3284.44	3217.50	3121.88	2988.56	2824.88	2587.50	2377.13
135.0	3271.50	3263.63	3213.56	3119.63	2998.13	2827.13	2625.19	2422.13	2206.69
180.0	3250.69	3158.44	3058.88	2897.44	2698.88	2500.31	2283.19	1965.38	1759.50
225.0	3260.25	3181.50	3064.50	2873.25	2687.63	2480.63	2231.44	1970.44	1733.06
270.0	3291.19	3241.69	3144.94	3016.69	2832.19	2613.38	2399.06	2145.38	1910.25
315.0	3271.50	3237.19	3162.38	3030.75	2855.81	2673.00	2474.44	2205.00	1978.88
360.0	3250.69	3285.00	3279.94	3223.13	3127.50	2975.63	2795.63	2613.94	2414.81

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2149.31	1924.88	1697.63	1448.44	1224.00	1048.50	874.13	725.63	617.63
45.0	2320.31	2063.81	1826.44	1588.50	1312.31	1118.81	951.75	771.75	661.50
90.0	2153.81	1860.75	1626.19	1400.06	1122.19	967.84	819.23	681.53	567.17
135.0	1927.13	1699.31	1475.44	1240.31	1033.88	874.69	722.81	599.06	521.44
180.0	1532.25	1099.97	1079.16	914.34	772.82	629.72	541.58	474.08	417.77
225.0	1474.88	1112.23	1043.89	859.44	727.31	612.62	524.87	466.14	418.50
270.0	1649.25	1399.50	1193.63	1032.75	817.88	696.38	609.75	504.00	448.88
315.0	1749.38	1471.50	1118.98	1074.38	894.04	742.56	633.60	526.73	471.66
360.0	2149.31	1924.88	1697.63	1448.44	1224.00	1048.50	874.13	725.63	617.63

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	524.81	462.38	412.31	375.75	351.00	331.31	312.19	300.38	290.81
45.0	566.44	484.31	424.69	384.75	351.56	331.31	313.88	300.38	290.81
90.0	491.12	430.88	391.78	358.59	334.97	318.15	304.37	290.81	282.04
135.0	450.56	405.56	370.69	342.56	324.56	309.94	297.56	288.00	284.63
180.0	378.51	352.52	330.30	313.43	301.84	291.09	283.22	276.13	270.45
225.0	387.06	358.71	338.34	320.85	305.66	294.69	285.98	278.21	273.32
270.0	413.44	376.88	352.13	336.38	317.25	303.75	293.63	284.63	276.30
315.0	417.88	376.71	356.57	334.29	315.28	304.76	293.40	280.63	275.74
360.0	524.81	462.38	412.31	375.75	351.00	331.31	312.19	300.38	290.81

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	284.63	272.48	267.53	263.53	258.36	254.42	249.19	236.53	217.24
45.0	284.06	271.91	266.18	261.62	256.84	252.39	248.18	235.97	217.91
90.0	274.78	267.86	263.14	258.98	254.19	249.92	243.56	227.36	204.64
135.0	272.70	267.24	262.86	259.93	254.19	249.30	242.78	220.33	196.71
180.0	265.89	262.01	257.12	252.90	246.99	230.63	207.06	178.26	141.69
225.0	268.71	264.54	259.88	254.98	243.79	221.68	195.08	161.33	129.49
270.0	270.45	266.46	262.63	258.36	249.08	232.82	209.59	175.33	145.97
315.0	270.62	264.94	261.28	257.46	251.44	240.86	223.37	195.41	164.93
360.0	284.63	272.48	267.53	263.53	258.36	254.42	249.19	236.53	217.24

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	187.71	154.24	113.51	75.49	46.35	24.41	12.83	9.45	7.71
45.0	191.87	160.03	126.56	97.93	63.79	38.03	19.01	11.81	9.34
90.0	174.94	143.10	114.30	82.58	52.26	29.76	16.48	11.42	9.73
135.0	168.58	128.03	89.38	61.65	32.12	16.93	11.08	8.21	6.64
180.0	102.21	69.24	39.71	19.80	11.93	8.72	7.09	6.02	5.34
225.0	94.39	62.10	37.74	18.84	11.42	8.72	6.98	5.91	5.23
270.0	115.93	82.69	51.19	27.68	13.84	9.96	7.43	5.96	5.23
315.0	126.17	87.92	57.88	30.88	15.19	10.58	8.33	6.41	5.68
360.0	187.71	154.24	113.51	75.49	46.35	24.41	12.83	9.45	7.71

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	6.19	5.51	4.84	4.61	3.83	3.49	3.43	3.38	3.32
45.0	7.65	6.81	6.08	5.79	4.50	3.60	3.54	3.43	3.38
90.0	8.72	8.21	7.71	7.31	3.66	3.54	3.49	3.43	3.38
135.0	5.85	4.95	4.61	3.99	3.60	3.49	3.43	3.38	3.32
180.0	5.01	4.67	3.60	3.54	3.43	3.38	3.38	3.26	3.21
225.0	5.12	3.94	3.60	3.49	3.43	3.38	3.32	3.26	3.26
270.0	4.56	4.16	3.88	3.60	3.43	3.38	3.32	3.26	3.26
315.0	5.01	4.78	4.22	3.54	3.49	3.38	3.32	3.26	3.21
360.0	6.19	5.51	4.84	4.61	3.83	3.49	3.43	3.38	3.32
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	3.26	3.21	3.15	3.15	3.09	3.04	3.04	2.98	2.98
45.0	3.38	3.26	3.26	3.21	3.15	3.09	3.04	3.04	2.98
90.0	3.32	3.26	3.21	3.21	3.09	3.09	3.04	3.04	2.98
135.0	3.26	3.21	3.15	3.15	3.09	3.04	3.04	3.04	2.98
180.0	3.21	3.15	3.15	3.09	3.09	3.04	2.98	2.98	2.98
225.0	3.21	3.09	3.09	3.09	3.04	3.04	3.04	2.93	2.98
270.0	3.21	3.15	3.09	3.04	3.04	3.04	2.98	2.98	2.93
315.0	3.15	3.15	3.09	3.04	2.98	2.98	2.93	2.93	2.93
360.0	3.26	3.21	3.15	3.15	3.09	3.04	3.04	2.98	2.98
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.93	2.93	2.87	2.87	2.87	2.87	2.81	2.81	2.76
45.0	2.98	2.98	2.93	2.93	2.87	2.87	2.87	2.81	2.81
90.0	2.98	2.93	2.93	2.87	2.93	2.87	2.87	2.81	2.76
135.0	2.93	2.93	2.93	2.87	2.87	2.81	2.81	2.81	2.81
180.0	2.93	2.93	2.87	2.87	2.81	2.81	2.81	2.81	2.76
225.0	2.93	2.93	2.93	2.87	2.87	2.87	2.81	2.76	2.76
270.0	2.93	2.87	2.87	2.87	2.81	2.81	2.81	2.81	2.76
315.0	2.93	2.87	2.81	2.81	2.81	2.81	2.81	2.76	2.76
360.0	2.93	2.93	2.87	2.87	2.87	2.87	2.81	2.81	2.76
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.76	2.76	2.76	2.76	2.76	2.70	2.76	2.70	2.70
45.0	2.81	2.76	2.76	2.76	2.76	2.76	2.76	2.70	2.70
90.0	2.76	2.76	2.76	2.76	2.76	2.70	2.70	2.70	2.64
135.0	2.81	2.76	2.76	2.76	2.70	2.70	2.70	2.70	2.70
180.0	2.76	2.76	2.76	2.70	2.70	2.70	2.70	2.70	2.70
225.0	2.76	2.76	2.76	2.76	2.70	2.70	2.70	2.70	2.70
270.0	2.76	2.76	2.76	2.76	2.70	2.70	2.70	2.70	2.70
315.0	2.76	2.76	2.70	2.70	2.70	2.70	2.64	2.64	2.70
360.0	2.76	2.76	2.76	2.76	2.76	2.70	2.76	2.70	2.70
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.64	2.70	2.70	2.70	2.64	2.64	2.64	2.64	2.59
45.0	2.70	2.70	2.70	2.70	2.64	2.70	2.64	2.64	2.59
90.0	2.64	2.70	2.64	2.64	2.64	2.64	2.59	2.59	2.59
135.0	2.70	2.64	2.70	2.64	2.64	2.64	2.59	2.59	2.59
180.0	2.64	2.70	2.70	2.64	2.70	2.59	2.59	2.59	2.59
225.0	2.70	2.70	2.64	2.64	2.70	2.64	2.64	2.59	2.59
270.0	2.70	2.64	2.70	2.70	2.70	2.70	2.64	2.59	2.59
315.0	2.64	2.64	2.64	2.64	2.59	2.59	2.59	2.59	2.59
360.0	2.64	2.70	2.70	2.70	2.64	2.64	2.64	2.64	2.59

Intensity data(cd)

C/γ(°)	90.0
0.0	2.59
45.0	2.53
90.0	2.59
135.0	2.59
180.0	2.59
225.0	2.59
270.0	2.59
315.0	2.59
360.0	2.59