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NATA

LumCAT: 1450-E	
Luminaire: 92.70.046.00	
Report No: NATA0100	Voltage(V): 35.4000
Test No: GC20190111	Current(A): 0.3000
LampCAT: CREE CXA1512	Power (W): 10.6200
Lamp flux(lm): 1552.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 44	Width(mm): 44
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1342.20
Efficiency(%): 86.48%
Lumens(lm)/Power(W): 126.45
Central intensity(cd): 3254.766
Maximum intensity(cd): 3254.766
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=28.3
 [C90/270]Total=28.3
Field angle(10%Imax): [C0/180]Total=72.8
 [C90/270]Total=72.8
Maximum s/h(1/2): C0_180=0.47 C90_270=0.47
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.53%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.089%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3254.766	0.779	0.779	.050%	.058%
1.0	3242.883	6.206	6.985	.400%	.520%
2.0	3199.359	12.244	19.229	.789%	1.433%
3.0	3133.758	17.985	37.215	1.159%	2.773%
4.0	3051.563	23.343	60.558	1.504%	4.512%
5.0	2938.570	28.086	88.643	1.810%	6.604%
6.0	2824.805	32.380	121.023	2.086%	9.017%
7.0	2690.438	35.956	156.979	2.317%	11.696%
8.0	2545.945	38.856	195.835	2.504%	14.591%
9.0	2392.453	41.042	236.877	2.644%	17.648%
10.0	2237.625	42.610	279.487	2.745%	20.823%
11.0	2081.180	43.547	323.034	2.806%	24.067%
12.0	1934.719	44.111	367.145	2.842%	27.354%
13.0	1791.703	44.198	411.343	2.848%	30.647%
14.0	1644.047	43.616	454.959	2.810%	33.896%
15.0	1524.797	43.277	498.236	2.788%	37.121%
16.0	1410.609	42.638	540.874	2.747%	40.298%
17.0	1292.414	41.437	582.311	2.670%	43.385%
18.0	1198.055	40.599	622.91	2.616%	46.410%
19.0	1107.338	39.534	662.444	2.547%	49.355%
20.0	1018.793	38.211	700.655	2.462%	52.202%
21.0	947.166	37.223	737.878	2.398%	54.975%
22.0	884.384	36.330	774.208	2.341%	57.682%
23.0	825.567	35.374	809.582	2.279%	60.317%
24.0	771.075	34.392	843.974	2.216%	62.880%
25.0	725.316	33.615	877.588	2.166%	65.384%
26.0	680.977	32.736	910.324	2.109%	67.823%
27.0	639.295	31.827	942.152	2.051%	70.195%
28.0	605.067	31.150	973.302	2.007%	72.515%
29.0	573.279	30.478	1003.78	1.964%	74.786%
30.0	543.347	29.792	1033.572	1.920%	77.006%
31.0	514.406	29.053	1062.626	1.872%	79.170%
32.0	481.127	27.959	1090.585	1.801%	81.253%
33.0	448.467	26.785	1117.37	1.726%	83.249%
34.0	414.436	25.414	1142.784	1.637%	85.143%
35.0	377.487	23.743	1166.527	1.530%	86.912%
36.0	338.414	21.813	1188.34	1.405%	88.537%
37.0	307.512	20.294	1208.635	1.308%	90.049%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	265.184	17.904	1226.538	1.154%	91.383%
39.0	224.283	15.478	1242.016	.997%	92.536%
40.0	187.327	13.204	1255.221	.851%	93.520%
41.0	151.699	10.914	1266.135	.703%	94.333%
42.0	115.784	8.496	1274.631	.547%	94.966%
43.0	88.692	6.633	1281.264	.427%	95.460%
44.0	67.704	5.157	1286.421	.332%	95.844%
45.0	54.218	4.204	1290.625	.271%	96.157%
46.0	46.955	3.704	1294.329	.239%	96.433%
47.0	41.709	3.345	1297.674	.216%	96.683%
48.0	35.381	2.883	1300.558	.186%	96.897%
49.0	29.025	2.402	1302.96	.155%	97.076%
50.0	22.999	1.932	1304.892	.124%	97.220%
51.0	17.135	1.460	1306.352	.094%	97.329%
52.0	16.003	1.383	1307.735	.089%	97.432%
53.0	15.384	1.347	1309.083	.087%	97.533%
54.0	14.681	1.302	1310.385	.084%	97.630%
55.0	14.063	1.263	1311.648	.081%	97.724%
56.0	13.359	1.215	1312.863	.078%	97.814%
57.0	12.691	1.167	1314.03	.075%	97.901%
58.0	12.038	1.119	1315.15	.072%	97.985%
59.0	11.496	1.081	1316.23	.070%	98.065%
60.0	10.927	1.038	1317.268	.067%	98.142%
61.0	10.470	1.004	1318.272	.065%	98.217%
62.0	10.111	0.979	1319.251	.063%	98.290%
63.0	9.816	0.959	1320.21	.062%	98.362%
64.0	9.577	0.944	1321.154	.061%	98.432%
65.0	9.373	0.932	1322.085	.060%	98.501%
66.0	9.232	0.925	1323.01	.060%	98.570%
67.0	9.105	0.919	1323.929	.059%	98.639%
68.0	9.014	0.917	1324.846	.059%	98.707%
69.0	8.930	0.914	1325.76	.059%	98.775%
70.0	8.852	0.912	1326.672	.059%	98.843%
71.0	8.761	0.908	1327.581	.059%	98.911%
72.0	8.670	0.904	1328.485	.058%	98.978%
73.0	8.571	0.899	1329.384	.058%	99.045%
74.0	8.487	0.895	1330.278	.058%	99.112%
75.0	8.409	0.891	1331.169	.057%	99.178%

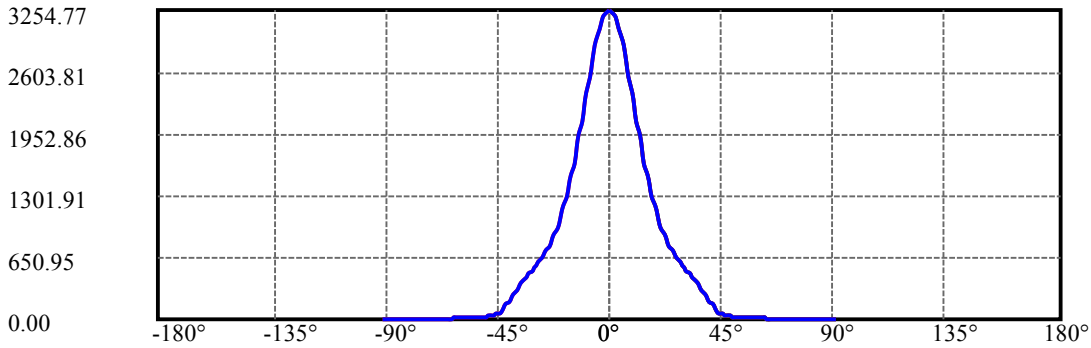
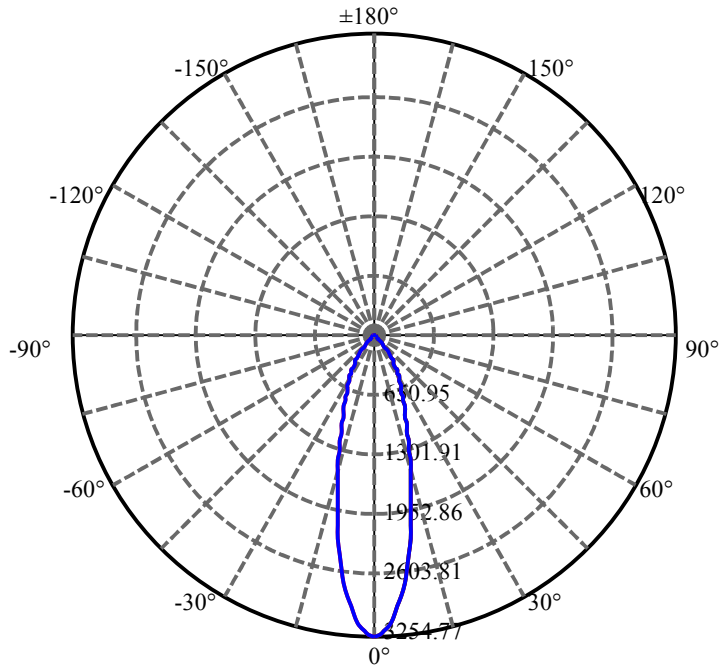
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.367	0.890	1332.059	.057%	99.244%
77.0	8.269	0.884	1332.943	.057%	99.310%
78.0	8.121	0.871	1333.814	.056%	99.375%
79.0	7.966	0.858	1334.672	.055%	99.439%
80.0	7.741	0.836	1335.508	.054%	99.501%
81.0	7.348	0.796	1336.303	.051%	99.561%
82.0	7.045	0.765	1337.069	.049%	99.618%
83.0	6.834	0.744	1337.812	.048%	99.673%
84.0	6.764	0.738	1338.55	.048%	99.728%
85.0	6.715	0.734	1339.284	.047%	99.783%
86.0	6.518	0.713	1339.997	.046%	99.836%
87.0	5.899	0.646	1340.643	.042%	99.884%
88.0	5.709	0.626	1341.268	.040%	99.931%
89.0	5.695	0.624	1341.893	.040%	99.977%
90.0	5.618	0.308	1342.201	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1033.57	66.60%	77.01%
0-40	1255.22	80.88%	93.52%
0-60	1317.27	84.88%	98.14%
0-90	1341.89	86.46%	99.98%
0-120	1341.89	86.46%	99.98%
0-180	1342.20	86.48%	100.00%
60-90	25.66	1.65%	1.91%
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%
0-31.40	1073.76	69.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	279.49
10-20	421.17
20-30	332.92
30-40	221.65
40-50	49.67
50-60	12.38
60-70	9.40
70-80	8.84
80-90	6.39
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: —————

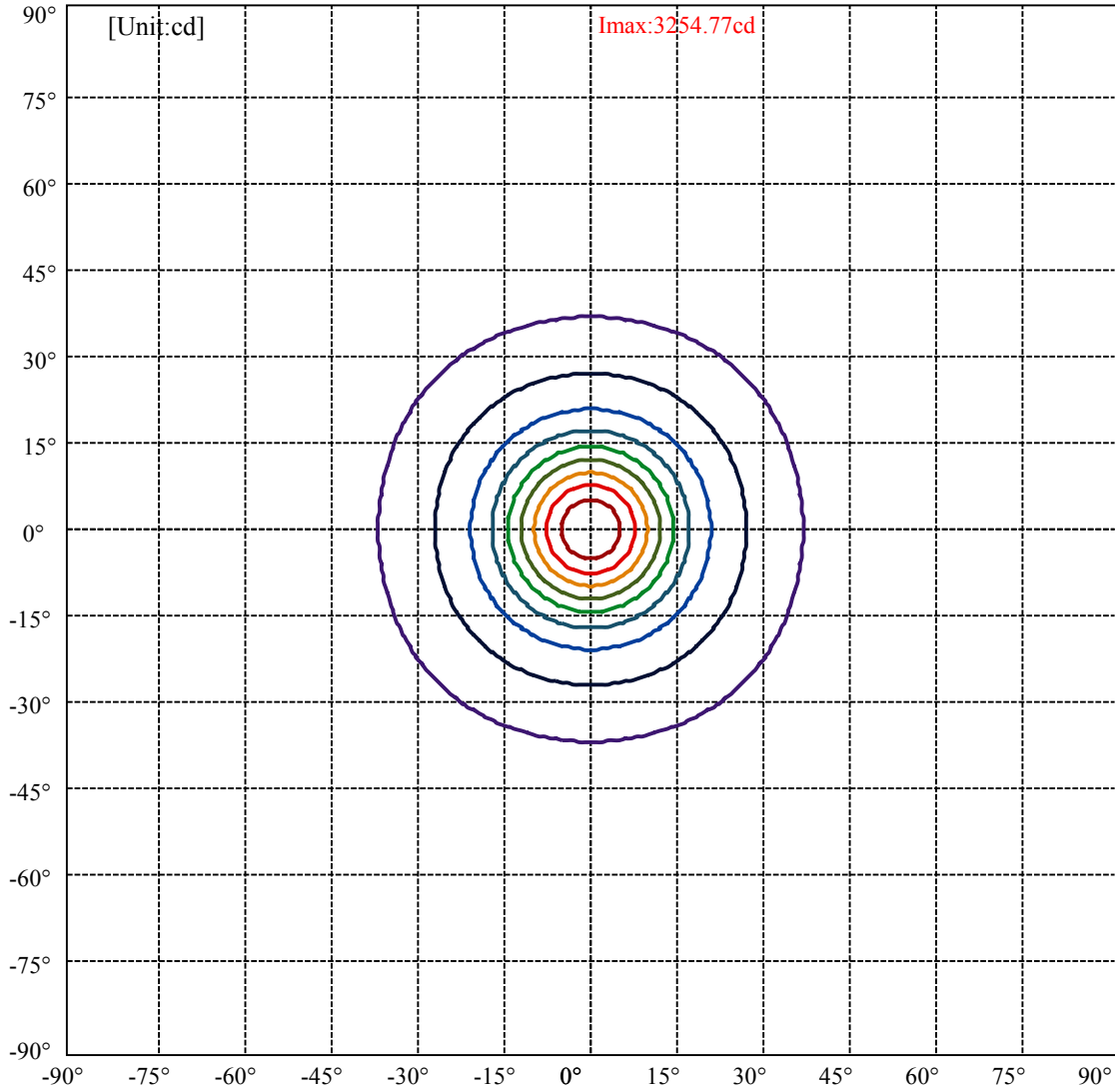
C90/C270: —————

Field angle(10%Imax):C0/180Left:36.4 Right:36.4

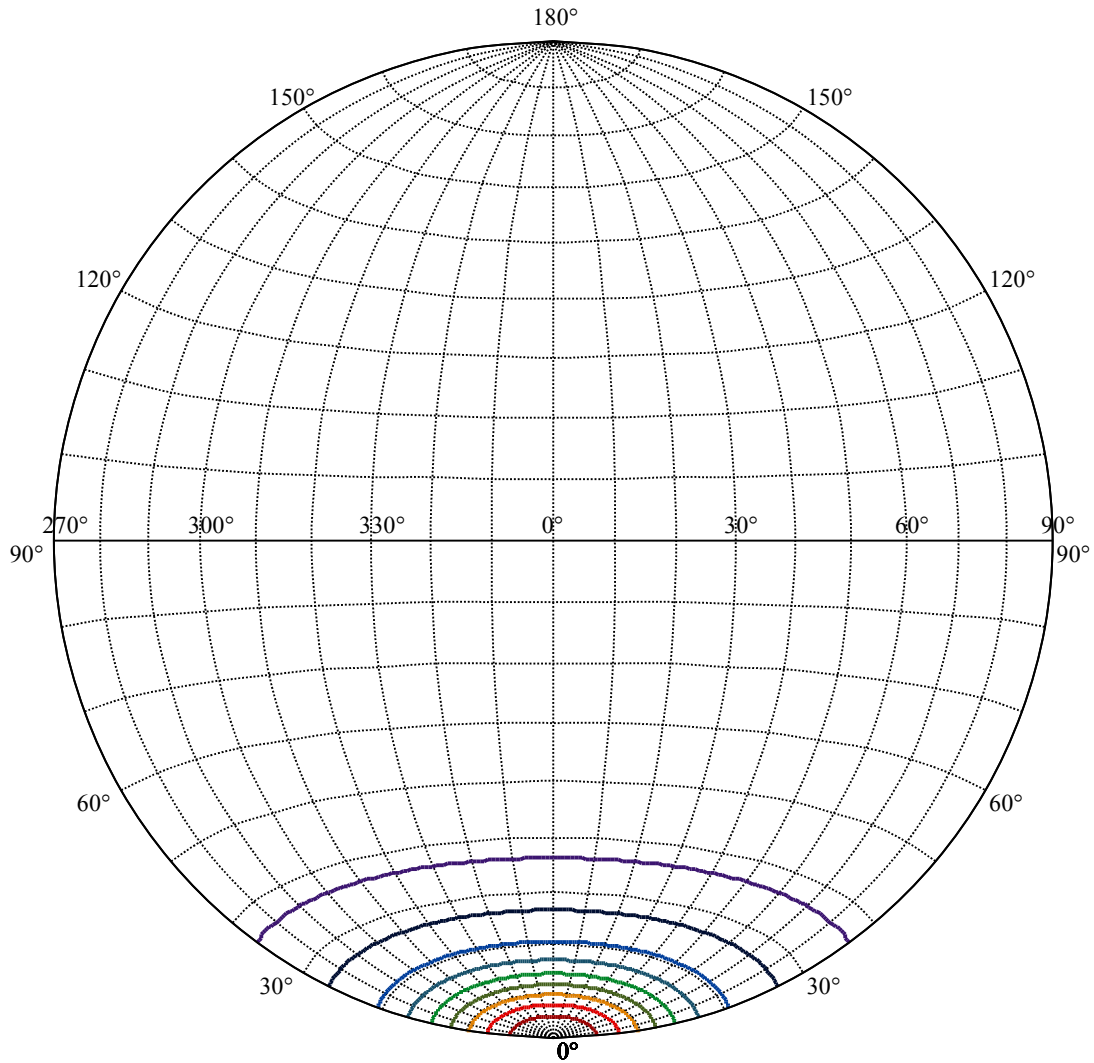
:C90/270Left:36.4 Right:36.4

Beam Angle(50%Imax):C0/180Left:14.1 Right:14.1

:C90/270Left:14.1 Right:14.1



(10%Imax) 325.477	—
(20%Imax) 650.953	—
(30%Imax) 976.43	—
(40%Imax) 1301.91	—
(50%Imax) 1627.38	—
(60%Imax) 1952.86	—
(70%Imax) 2278.34	—
(80%Imax) 2603.81	—
(90%Imax) 2929.29	—



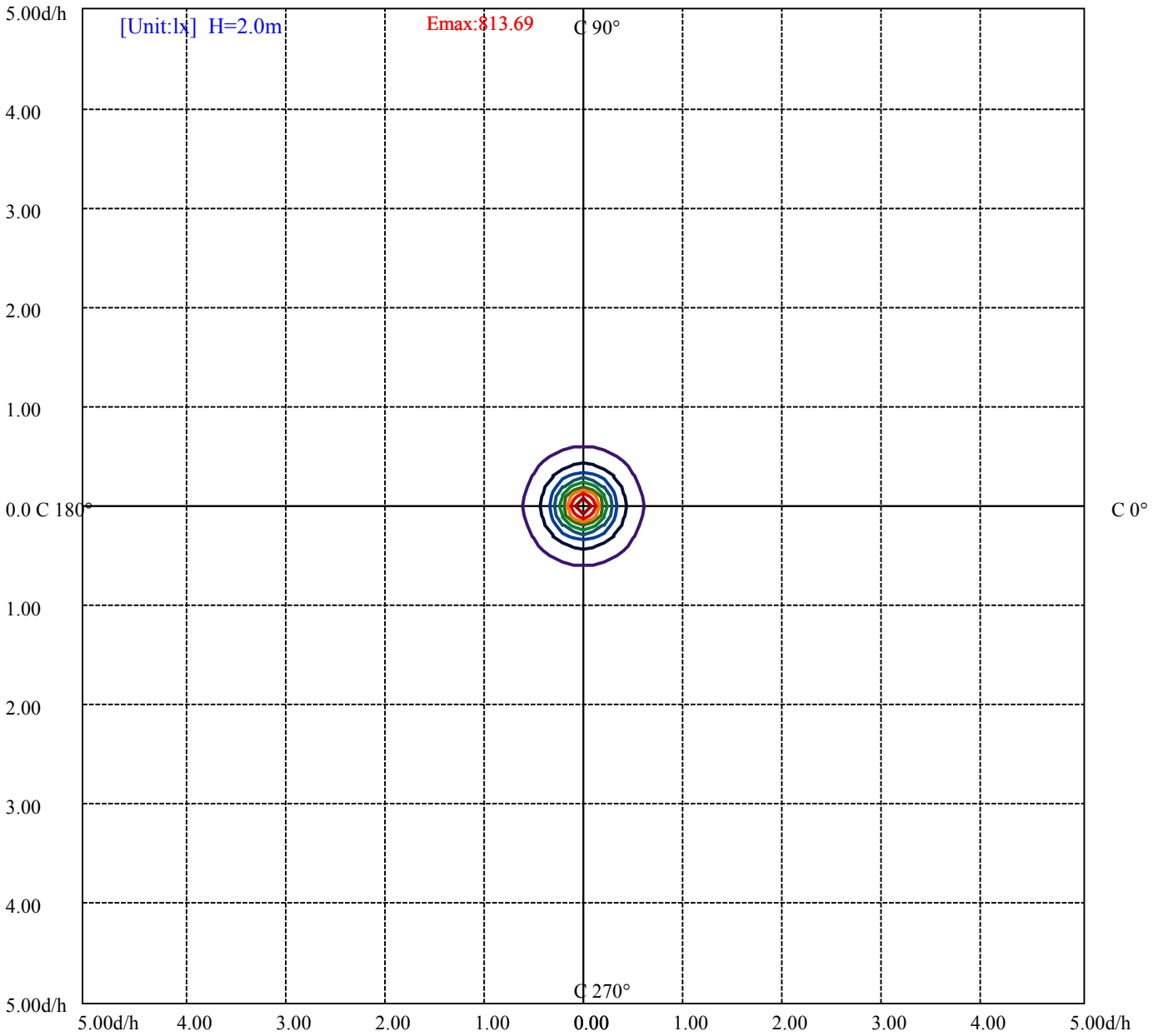
House

[Unit:cd]

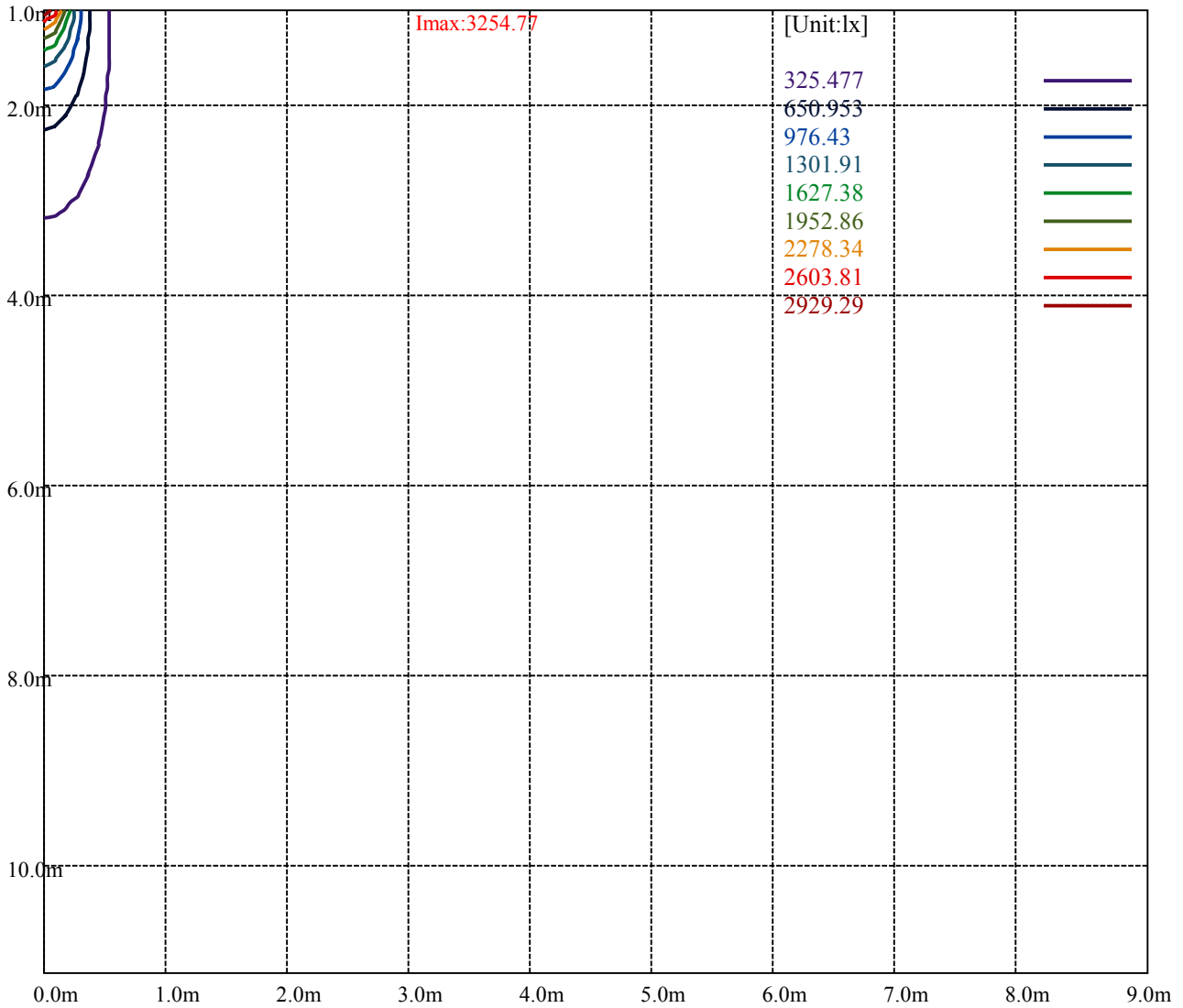
Road

Imax:3254.77

(10%Imax) 325.477	—
(20%Imax) 650.953	—
(30%Imax) 976.43	—
(40%Imax) 1301.91	—
(50%Imax) 1627.38	—
(60%Imax) 1952.86	—
(70%Imax) 2278.34	—
(80%Imax) 2603.81	—
(90%Imax) 2929.29	—



- (10%Emax) 81.369
- (20%Emax) 162.7383
- (30%Emax) 244.1073
- (40%Emax) 325.4775
- (50%Emax) 406.845
- (60%Emax) 488.215
- (70%Emax) 569.5825
- (80%Emax) 650.9525
- (90%Emax) 732.3225



Luminance Table

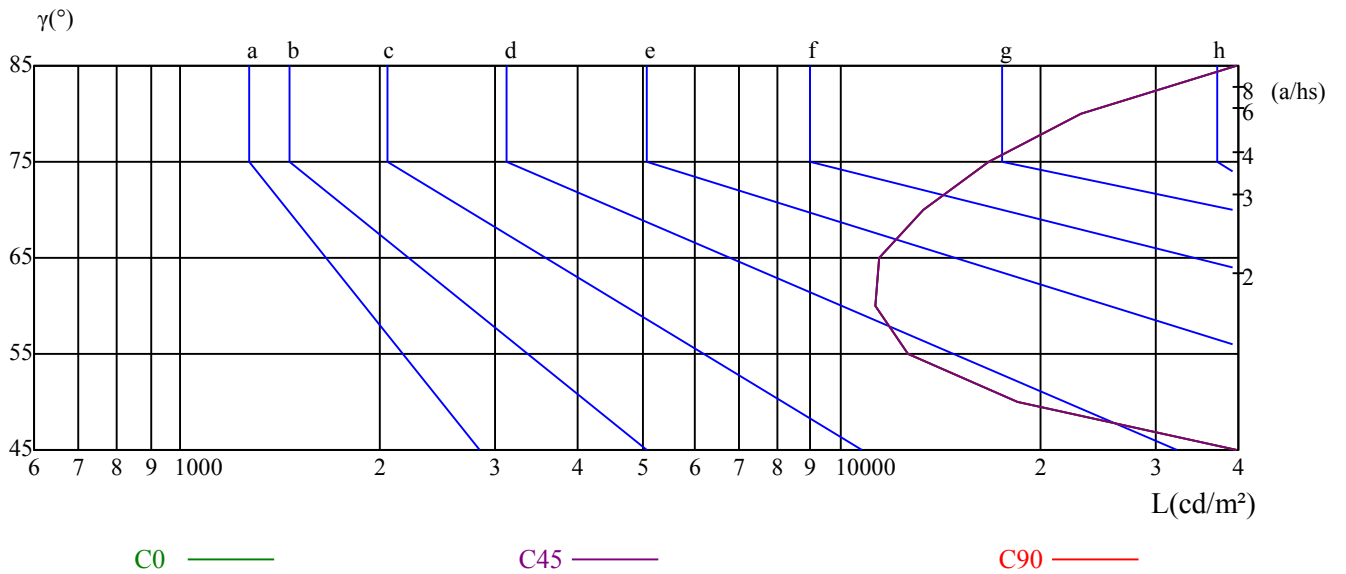
γ	45	50	55	60	65	70	75	80	85
C0	39605	18482	12664	11288	11455	13369	16783	23027	39796
C45	39605	18482	12664	11288	11455	13369	16783	23027	39796
C90	39605	18482	12664	11288	11455	13369	16783	23027	39796

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11455	11455	11455	16783	16783	16783	39796	39796	39796

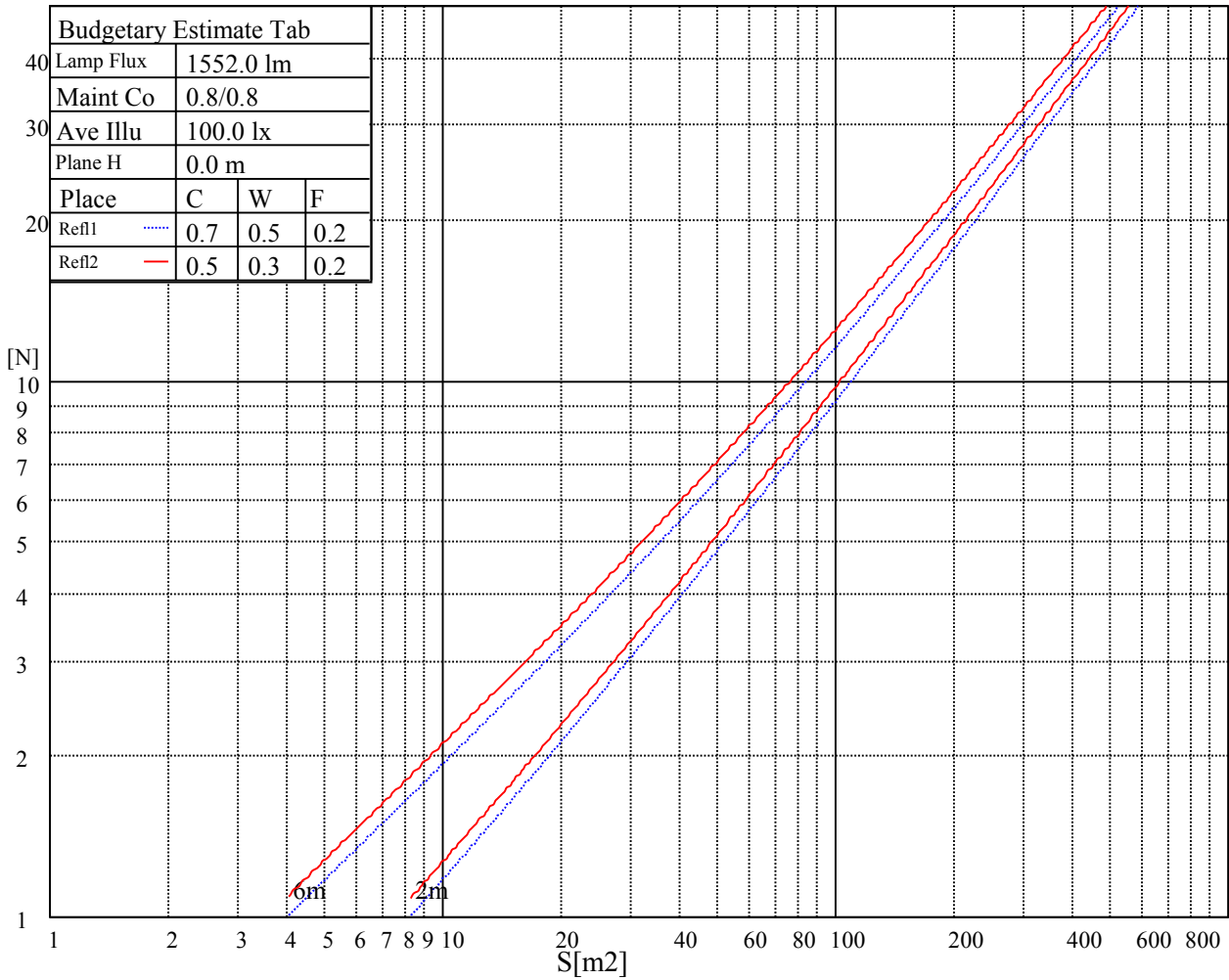
Glare Table

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

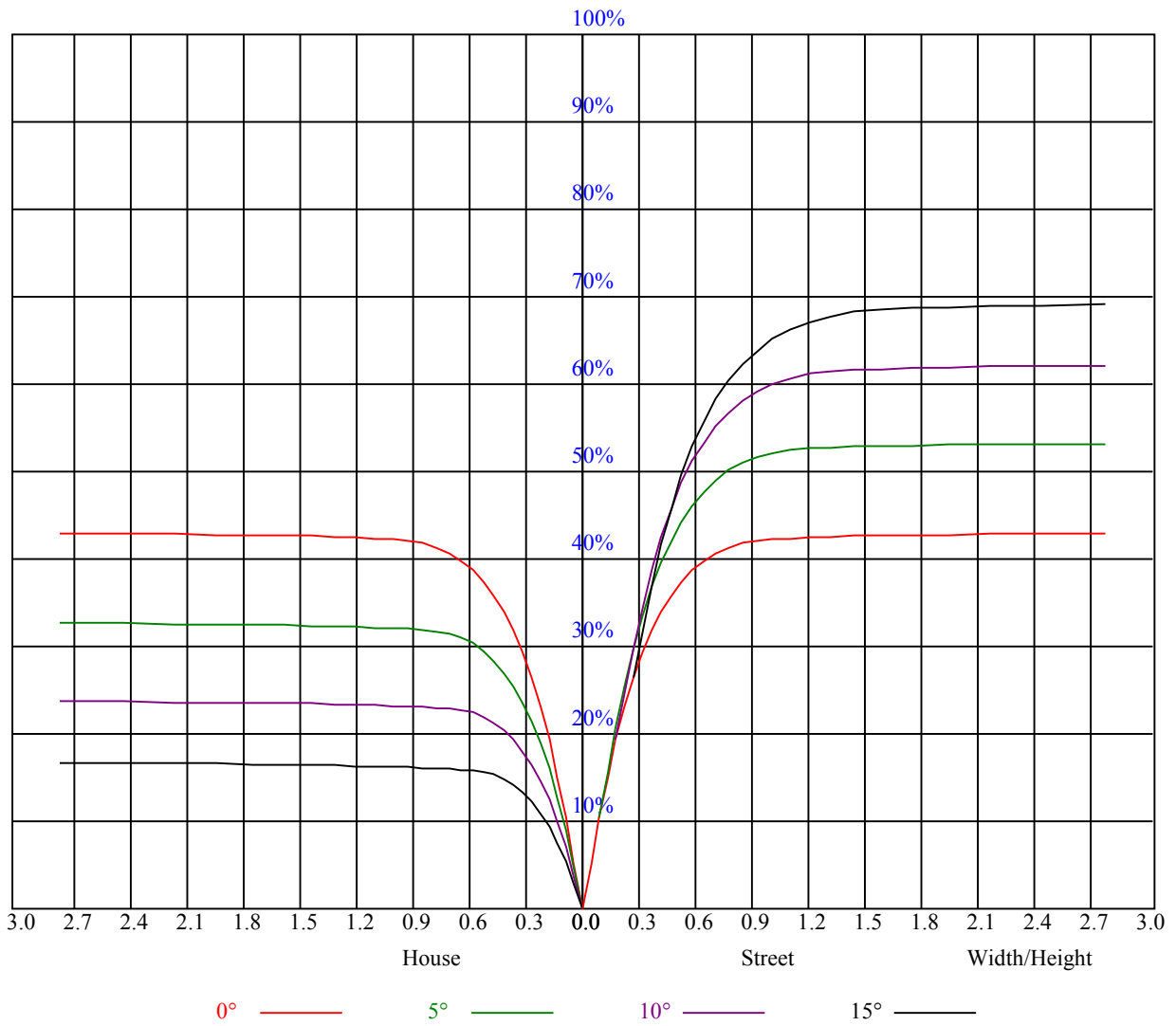
Luminance Limiting Curve



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	12.07	13.03	12.43	13.34	13.66	9.02	9.98	9.39	10.30	10.61
	3H	14.39	15.24	14.78	15.58	15.95	11.49	12.34	11.87	12.67	13.04
	4H	15.77	16.56	16.18	16.91	17.30	12.97	13.76	13.38	14.11	14.50
	6H	17.22	17.94	17.64	18.32	18.71	14.76	15.48	15.17	15.85	16.25
	8H	17.91	18.58	18.34	18.98	19.39	15.76	16.43	16.19	16.83	17.24
	12H	18.93	19.57	19.36	19.96	20.39	17.39	18.03	17.82	18.42	18.85
4H	2H	12.22	13.00	12.63	13.36	13.75	9.73	10.52	10.14	10.87	11.26
	3H	14.90	15.55	15.32	15.96	16.36	12.55	13.20	12.97	13.60	14.01
	4H	16.53	17.10	16.97	17.53	17.98	14.24	14.81	14.68	15.24	15.69
	6H	18.08	18.57	18.55	19.02	19.50	16.08	16.57	16.55	17.02	17.49
	8H	18.94	19.40	19.42	19.85	20.33	17.21	17.67	17.69	18.12	18.60
8H	12H	20.02	20.42	20.51	20.90	21.38	18.78	19.18	19.28	19.67	20.15
	4H	16.85	17.31	17.33	17.76	18.24	14.99	15.45	15.46	15.90	16.37
	6H	18.69	19.06	19.20	19.56	20.05	17.10	17.46	17.61	17.97	18.45
	8H	19.74	20.07	20.28	20.59	21.09	18.40	18.72	18.93	19.24	19.74
12H	12H	21.08	21.36	21.60	21.86	22.44	20.10	20.38	20.63	20.88	21.46
	4H	16.93	17.33	17.42	17.81	18.29	15.21	15.61	15.70	16.10	16.57
	6H	19.10	19.18	19.39	19.65	20.20	17.66	17.74	17.95	18.21	18.76
	8H	20.02	20.30	20.55	20.80	21.38	18.83	19.11	19.35	19.61	20.19
Variation with the observer position at spacings:											
S = 1.0H	4.3/-5.9					4.3/-5.9					
S = 1.5H	6.4/-4.4					6.4/-4.4					
S = 2.0H	7.8/-3.6					7.8/-3.6					
Standard tables:	BK3					BK3					
Uncorrected UGR	5.1					5.1					



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	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.87
1	0.96	0.94	0.92	0.94	0.92	0.91	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.81
2	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.76
3	0.85	0.81	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.74	0.77	0.75	0.73	0.72
4	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.68
5	0.75	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.70	0.68	0.65	0.64
6	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.67	0.64	0.62	0.61
7	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.61	0.59	0.58
8	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.55
9	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.58	0.54	0.52	0.57	0.54	0.51	0.50



NATA 1450-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	3265.31	3212.44	3130.31	3043.13	2927.25	2796.75	2667.94	2517.19	2378.81
45.0	3258.56	3218.06	3138.75	3055.50	2958.75	2824.88	2701.13	2565.56	2409.75
90.0	3251.81	3229.88	3172.50	3094.88	3007.13	2889.56	2774.25	2630.25	2473.88
135.0	3243.38	3267.00	3260.25	3229.88	3173.06	3078.00	2982.94	2872.69	2729.81
180.0	3265.31	3291.19	3290.63	3252.38	3195.00	3117.94	3010.50	2878.88	2750.06
225.0	3258.56	3274.88	3258.56	3215.25	3151.69	3055.50	2953.13	2824.31	2676.94
270.0	3251.81	3252.38	3215.81	3159.00	3081.38	2958.75	2848.50	2724.19	2575.69
315.0	3243.38	3197.25	3128.06	3020.06	2918.25	2787.19	2660.06	2510.44	2372.63
360.0	3265.31	3212.44	3130.31	3043.13	2927.25	2796.75	2667.94	2517.19	2378.81
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2221.31	2062.69	1924.88	1777.50	1640.25	1524.38	1418.06	1293.75	1203.75
45.0	2251.69	2103.75	1940.06	1800.56	1655.44	1516.50	1405.69	1296.00	1191.94
90.0	2328.19	2163.38	1999.69	1860.19	1725.75	1566.56	1449.56	1342.13	1189.69
135.0	2578.50	2441.81	2277.00	2132.44	1970.44	1814.06	1689.19	1573.88	1438.88
180.0	2592.56	2430.00	2283.75	2124.00	1982.81	1831.50	1686.94	1572.19	1464.19
225.0	2535.75	2372.06	2203.31	2052.00	1904.63	1731.94	1605.94	1487.81	1365.19
270.0	2419.31	2275.31	2109.38	1965.38	1811.25	1663.31	1541.25	1414.13	1298.81
315.0	2212.31	2052.00	1911.38	1765.69	1643.06	1504.13	1401.75	1305.00	1186.88
360.0	2221.31	2062.69	1924.88	1777.50	1640.25	1524.38	1418.06	1293.75	1203.75
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1120.50	1036.13	959.63	898.31	836.44	786.38	735.75	690.19	650.81
45.0	1107.56	1024.88	937.69	878.06	822.94	768.94	719.44	681.75	640.69
90.0	1115.72	1028.48	952.93	868.67	812.70	763.71	715.33	673.03	632.76
135.0	1333.69	1248.75	1128.94	1050.19	977.63	903.94	843.75	797.06	748.13
180.0	1337.06	1245.38	1113.24	1054.86	984.15	921.83	854.61	804.26	758.53
225.0	1255.50	1119.94	1068.19	984.04	916.31	848.48	796.78	745.26	691.93
270.0	1204.31	1119.38	1022.06	951.75	889.31	826.31	769.50	723.94	676.69
315.0	1110.09	1035.79	967.67	891.45	835.59	784.97	733.44	687.04	648.28
360.0	1120.50	1036.13	959.63	898.31	836.44	786.38	735.75	690.19	650.81
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	614.81	586.13	562.50	536.63	498.94	464.63	429.19	381.94	343.69
45.0	603.56	578.25	556.88	529.31	496.69	461.25	429.19	396.00	351.00
90.0	584.27	542.93	516.60	485.27	459.06	426.60	392.96	362.64	333.84
135.0	703.13	665.44	623.25	589.50	558.00	526.50	497.81	463.50	428.63
180.0	706.33	671.63	627.53	581.40	557.33	528.69	492.75	464.63	431.89
225.0	657.84	616.61	573.69	550.52	527.23	492.75	468.23	437.68	402.69
270.0	631.69	595.69	566.44	545.06	519.19	487.69	457.88	426.94	384.75
315.0	612.73	583.88	559.35	529.09	498.83	460.91	419.74	382.16	343.41
360.0	614.81	586.13	562.50	536.63	498.94	464.63	429.19	381.94	343.69
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	305.44	285.75	213.92	175.56	138.83	102.21	70.59	51.47	38.42
45.0	314.44	286.88	233.78	192.88	157.44	124.71	87.75	65.36	51.24
90.0	295.93	266.74	238.33	204.58	175.78	145.80	107.78	83.98	66.15
135.0	394.88	360.00	314.44	286.88	237.94	196.82	157.11	124.76	93.88
180.0	384.98	354.54	319.84	278.72	236.98	200.25	159.19	122.74	94.22
225.0	365.79	332.66	294.24	254.19	220.33	181.97	148.89	114.75	85.78
270.0	350.44	315.56	288.00	230.29	195.41	158.96	122.96	96.19	73.86
315.0	295.43	257.96	218.93	171.17	135.90	102.88	72.00	50.29	38.08
360.0	305.44	285.75	213.92	175.56	138.83	102.21	70.59	51.47	38.42

NATA 1450-E

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	32.57	29.48	23.40	13.11	9.34	8.83	8.61	8.44	8.27
45.0	42.86	39.94	34.71	24.53	17.38	16.76	16.54	16.20	15.81
90.0	61.59	57.77	54.23	46.46	31.73	26.78	25.37	24.08	22.73
135.0	71.55	58.73	51.98	48.54	41.63	29.93	15.53	13.61	12.94
180.0	70.43	57.09	49.56	46.29	41.34	32.40	15.64	11.87	11.03
225.0	66.54	54.79	49.78	47.70	43.59	33.58	21.43	20.48	19.69
270.0	56.19	48.71	46.69	43.43	37.35	26.49	25.03	24.64	23.96
315.0	32.01	29.14	23.34	12.99	9.84	9.23	8.94	8.72	8.66
360.0	32.57	29.48	23.40	13.11	9.34	8.83	8.61	8.44	8.27
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.21	8.10	8.10	8.04	7.99	7.99	7.93	7.88	7.76
45.0	15.36	14.79	14.18	13.56	12.88	12.32	11.64	11.25	10.91
90.0	20.76	19.41	17.61	16.20	14.91	13.84	13.11	12.26	11.93
135.0	12.43	11.98	11.42	11.03	10.69	10.29	9.84	9.45	9.06
180.0	10.46	10.01	9.68	9.45	9.11	8.94	8.78	8.61	8.49
225.0	18.39	17.38	16.03	14.63	13.22	12.04	10.86	9.84	9.11
270.0	23.29	22.39	21.49	20.31	19.35	18.45	17.33	16.65	15.98
315.0	8.55	8.44	8.38	8.33	8.16	8.10	7.93	7.82	7.65
360.0	8.21	8.10	8.10	8.04	7.99	7.99	7.93	7.88	7.76
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.71	7.59	7.48	7.43	7.37	7.37	7.43	7.43	7.43
45.0	10.63	10.35	10.24	10.13	10.01	9.90	9.73	9.56	9.34
90.0	11.64	11.42	11.31	11.19	11.08	10.97	10.80	10.63	10.52
135.0	8.72	8.38	8.04	7.82	7.65	7.54	7.43	7.43	7.31
180.0	8.38	8.21	7.99	7.82	7.59	7.48	7.37	7.31	7.31
225.0	8.44	8.10	7.71	7.65	7.54	7.48	7.48	7.43	7.37
270.0	15.58	15.19	15.02	14.74	14.51	14.29	14.12	13.89	13.67
315.0	7.43	7.37	7.20	7.09	7.09	7.09	7.09	7.14	7.14
360.0	7.71	7.59	7.48	7.43	7.37	7.37	7.43	7.43	7.43
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.43	7.43	7.37	7.37	7.48	7.48	7.59	7.76	7.76
45.0	9.17	9.00	8.94	9.23	9.62	9.84	9.79	9.11	8.49
90.0	10.29	10.07	9.90	9.56	9.28	9.06	8.78	8.49	8.04
135.0	7.31	7.26	7.20	7.14	7.09	6.98	6.92	6.86	6.81
180.0	7.26	7.20	7.09	7.03	6.98	6.92	6.86	6.81	6.75
225.0	7.31	7.20	7.14	7.03	6.92	6.81	6.75	6.75	6.69
270.0	13.44	13.28	13.11	12.77	12.43	12.21	11.76	11.42	10.86
315.0	7.14	7.14	7.14	7.14	7.14	6.86	6.53	6.53	6.53
360.0	7.43	7.43	7.37	7.37	7.48	7.48	7.59	7.76	7.76
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.48	7.20	7.20	7.31	7.20	6.98	5.91	5.79	5.79
45.0	7.82	7.43	7.26	7.26	7.09	6.86	5.79	5.68	5.63
90.0	7.76	7.48	7.14	7.09	7.03	6.86	5.79	5.63	5.63
135.0	6.81	6.81	6.81	6.81	6.75	6.75	6.64	5.79	5.79
180.0	6.69	6.69	6.64	6.58	6.64	6.53	6.02	5.85	5.85
225.0	6.58	6.58	6.53	6.41	6.41	6.36	5.74	5.63	5.68
270.0	9.23	7.88	6.92	6.41	6.30	6.13	5.63	5.63	5.57
315.0	6.41	6.30	6.19	6.24	6.30	5.68	5.68	5.68	5.63
360.0	7.48	7.20	7.20	7.31	7.20	6.98	5.91	5.79	5.79

Intensity data(cd)

C/γ(°)	90.0
0.0	5.51
45.0	5.57
90.0	5.51
135.0	5.74
180.0	5.85
225.0	5.74
270.0	5.51
315.0	5.51
360.0	5.51