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NATA

LumCAT: 2-1571-A
Luminaire: 92.70.188.00+92.70.147.00
Report No: NATA0100
Test No: GC2019011702
LampCAT: NICHIA NFCWL036B-V3
Lamp flux(lm): 1304.0
Number of Lamps: 1
Length(mm): 64
Phm Type: C

Voltage(V): 34.9000
Current(A): 0.3000
Power (W): 10.4700
PF: 0.0000
Ballast type: DC
Width(mm): 64
Height(mm): 0

Photometric Results

Lumens(lm): 1072.27
Efficiency(%): 82.23%
Lumens(lm)/Power(W): 102.50
Central intensity(cd): 3908.531
Maximum intensity(cd): 3908.531
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=24.5
 [C90/270]Total=24.5
Field angle(10%Imax): [C0/180]Total=50.7
 [C90/270]Total=50.7
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.30%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.220%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3908.531	0.935	0.935	.072%	.087%
1.0	3891.727	7.448	8.383	.571%	.782%
2.0	3839.555	14.694	23.078	1.127%	2.152%
3.0	3742.664	21.480	44.558	1.647%	4.155%
4.0	3611.742	27.628	72.186	2.119%	6.732%
5.0	3443.555	32.912	105.098	2.524%	9.801%
6.0	3257.648	37.341	142.439	2.864%	13.284%
7.0	3049.523	40.755	183.194	3.125%	17.085%
8.0	2847.305	43.455	226.649	3.332%	21.137%
9.0	2628.422	45.090	271.739	3.458%	25.342%
10.0	2412.984	45.949	317.688	3.524%	29.628%
11.0	2208.164	46.204	363.892	3.543%	33.937%
12.0	2001.867	45.642	409.534	3.500%	38.193%
13.0	1799.156	44.382	453.917	3.404%	42.332%
14.0	1588.992	42.155	496.072	3.233%	46.264%
15.0	1408.148	39.967	536.038	3.065%	49.991%
16.0	1189.041	35.941	571.979	2.756%	53.343%
17.0	1069.327	34.284	606.263	2.629%	56.540%
18.0	923.259	31.287	637.55	2.399%	59.458%
19.0	804.523	28.723	666.273	2.203%	62.137%
20.0	694.934	26.064	692.337	1.999%	64.567%
21.0	608.098	23.898	716.235	1.833%	66.796%
22.0	543.284	22.318	738.553	1.711%	68.877%
23.0	485.979	20.823	759.376	1.597%	70.819%
24.0	439.819	19.617	778.993	1.504%	72.649%
25.0	401.716	18.617	797.611	1.428%	74.385%
26.0	369.682	17.771	815.382	1.363%	76.043%
27.0	338.843	16.869	832.251	1.294%	77.616%
28.0	314.276	16.180	848.431	1.241%	79.125%
29.0	289.969	15.416	863.847	1.182%	80.562%
30.0	273.171	14.978	878.825	1.149%	81.959%
31.0	248.203	14.018	892.844	1.075%	83.267%
32.0	226.828	13.181	906.025	1.011%	84.496%
33.0	208.463	12.451	918.476	.955%	85.657%
34.0	192.628	11.812	930.288	.906%	86.759%
35.0	176.702	11.114	941.402	.852%	87.795%
36.0	160.453	10.342	951.745	.793%	88.760%
37.0	147.727	9.749	961.494	.748%	89.669%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	134.480	9.079	970.573	.696%	90.516%
39.0	119.095	8.219	978.792	.630%	91.282%
40.0	106.826	7.530	986.322	.577%	91.984%
41.0	95.055	6.839	993.161	.524%	92.622%
42.0	84.108	6.172	999.332	.473%	93.198%
43.0	74.088	5.541	1004.873	.425%	93.714%
44.0	64.673	4.927	1009.8	.378%	94.174%
45.0	56.095	4.350	1014.15	.334%	94.580%
46.0	49.514	3.906	1018.056	.300%	94.944%
47.0	43.052	3.453	1021.508	.265%	95.266%
48.0	37.976	3.095	1024.603	.237%	95.554%
49.0	33.511	2.773	1027.377	.213%	95.813%
50.0	29.341	2.465	1029.841	.189%	96.043%
51.0	25.903	2.208	1032.049	.169%	96.249%
52.0	22.999	1.987	1034.036	.152%	96.434%
53.0	19.976	1.749	1035.786	.134%	96.597%
54.0	17.051	1.513	1037.299	.116%	96.738%
55.0	14.604	1.312	1038.61	.101%	96.861%
56.0	11.742	1.068	1039.678	.082%	96.960%
57.0	10.195	0.938	1040.616	.072%	97.048%
58.0	9.837	0.915	1041.53	.070%	97.133%
59.0	9.626	0.905	1042.435	.069%	97.217%
60.0	9.485	0.901	1043.336	.069%	97.302%
61.0	9.366	0.898	1044.234	.069%	97.385%
62.0	9.281	0.899	1045.133	.069%	97.469%
63.0	9.225	0.901	1046.034	.069%	97.553%
64.0	9.204	0.907	1046.941	.070%	97.638%
65.0	9.169	0.911	1047.853	.070%	97.723%
66.0	9.197	0.921	1048.774	.071%	97.809%
67.0	9.218	0.930	1049.705	.071%	97.895%
68.0	9.260	0.942	1050.646	.072%	97.983%
69.0	9.330	0.955	1051.601	.073%	98.072%
70.0	9.380	0.967	1052.568	.074%	98.162%
71.0	9.471	0.982	1053.55	.075%	98.254%
72.0	9.548	0.996	1054.546	.076%	98.347%
73.0	9.619	1.009	1055.554	.077%	98.441%
74.0	9.710	1.024	1056.578	.078%	98.536%
75.0	9.844	1.043	1057.621	.080%	98.634%

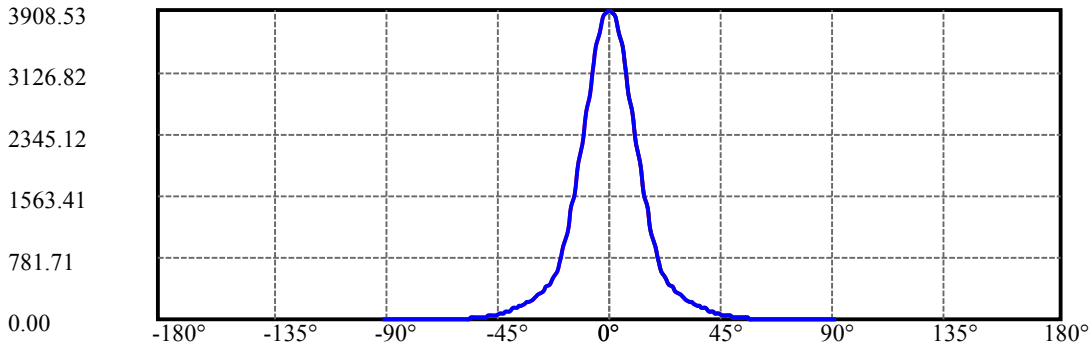
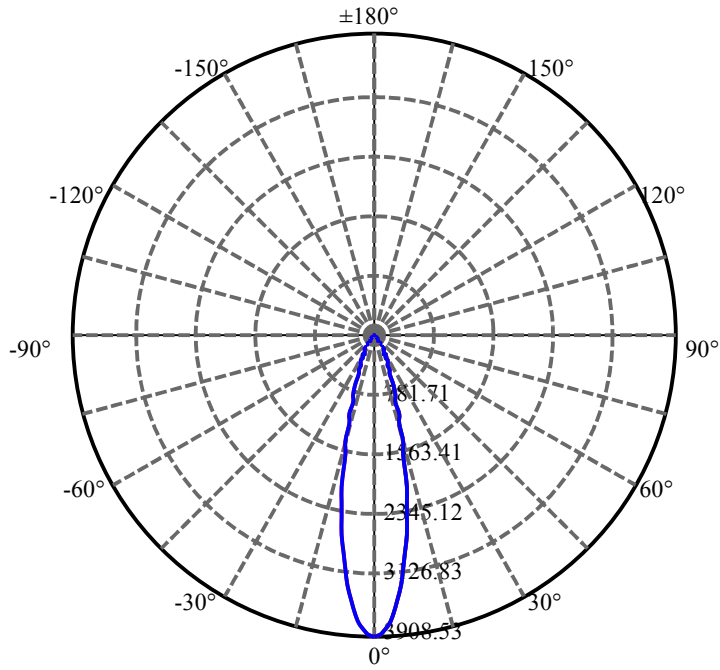
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.223	1.088	1058.709	.083%	98.735%
77.0	10.772	1.151	1059.859	.088%	98.842%
78.0	11.320	1.214	1061.074	.093%	98.956%
79.0	11.728	1.262	1062.336	.097%	99.073%
80.0	11.447	1.236	1063.572	.095%	99.189%
81.0	10.990	1.190	1064.763	.091%	99.300%
82.0	10.688	1.161	1065.923	.089%	99.408%
83.0	10.519	1.145	1067.068	.088%	99.515%
84.0	10.357	1.130	1068.198	.087%	99.620%
85.0	10.118	1.105	1069.303	.085%	99.723%
86.0	9.647	1.055	1070.358	.081%	99.822%
87.0	6.328	0.693	1071.051	.053%	99.886%
88.0	4.542	0.498	1071.549	.038%	99.933%
89.0	4.409	0.483	1072.033	.037%	99.978%
90.0	4.352	0.239	1072.271	.018%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	878.83	67.39%	81.96%
0-40	986.32	75.64%	91.98%
0-60	1043.34	80.01%	97.30%
0-90	1072.03	82.21%	99.98%
0-120	1072.03	82.21%	99.98%
0-180	1072.27	82.23%	100.00%
60-90	29.60	2.27%	2.76%
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%
0-28.61	857.82	65.78%	80.00%

ZONAL LUMEN SUMMARY

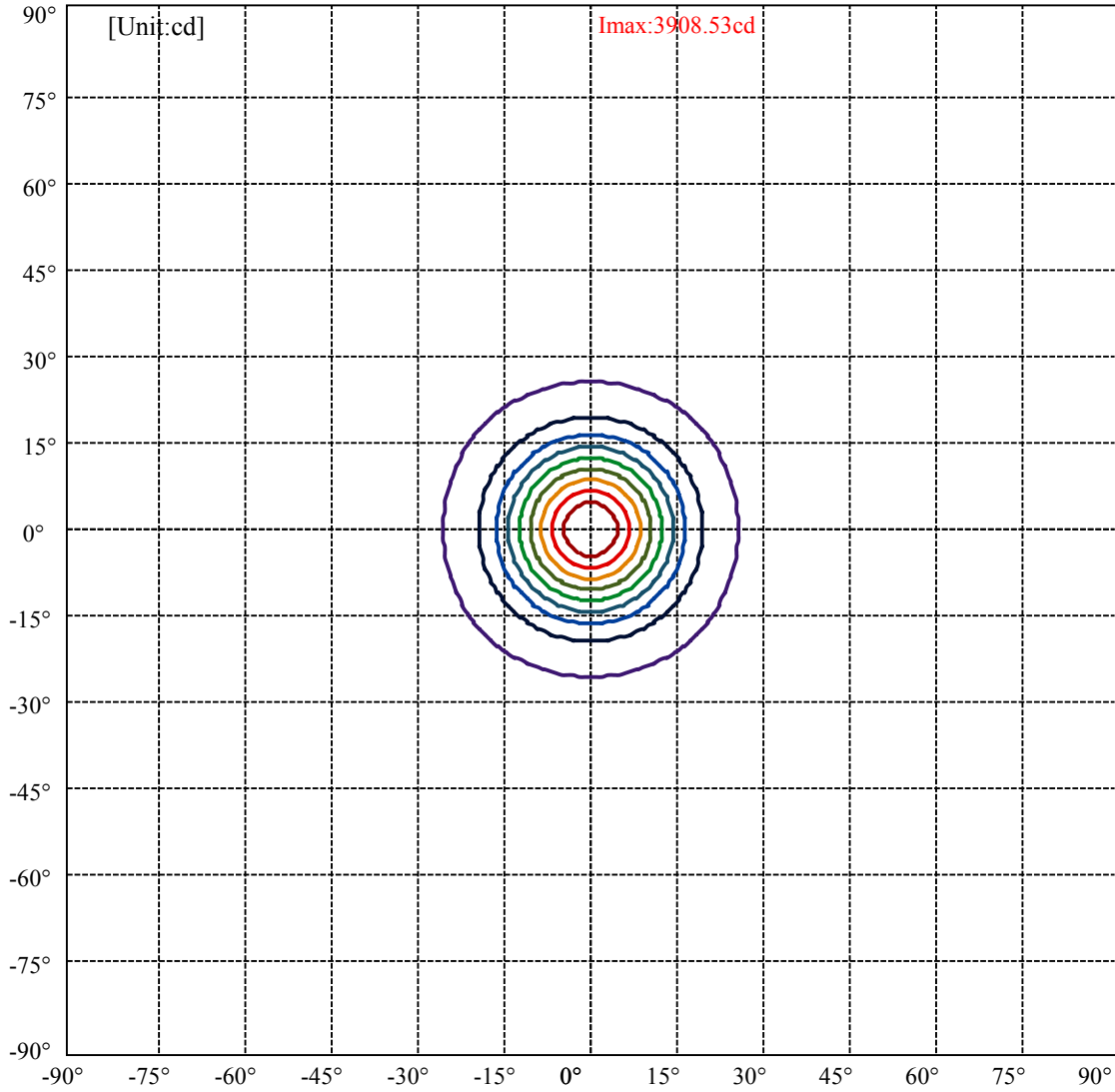
0-10	317.69
10-20	374.65
20-30	186.49
30-40	107.50
40-50	43.52
50-60	13.49
60-70	9.23
70-80	11.00
80-90	8.46
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



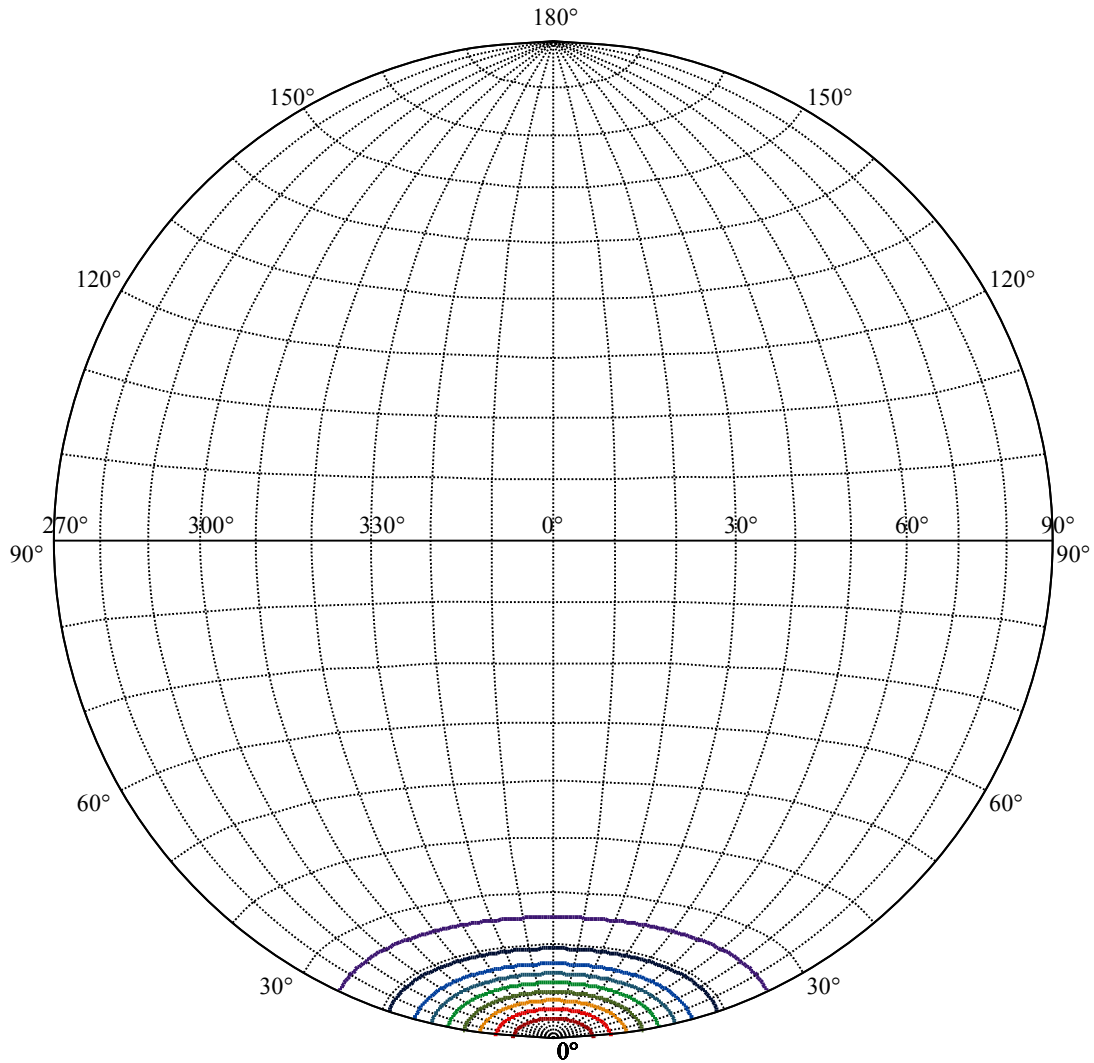
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:25.3 Right:25.3
:C90/270Left:25.3 Right:25.3

Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2



(10%Imax) 390.853	—
(20%Imax) 781.706	—
(30%Imax) 1172.56	—
(40%Imax) 1563.41	—
(50%Imax) 1954.27	—
(60%Imax) 2345.12	—
(70%Imax) 2735.97	—
(80%Imax) 3126.82	—
(90%Imax) 3517.68	—



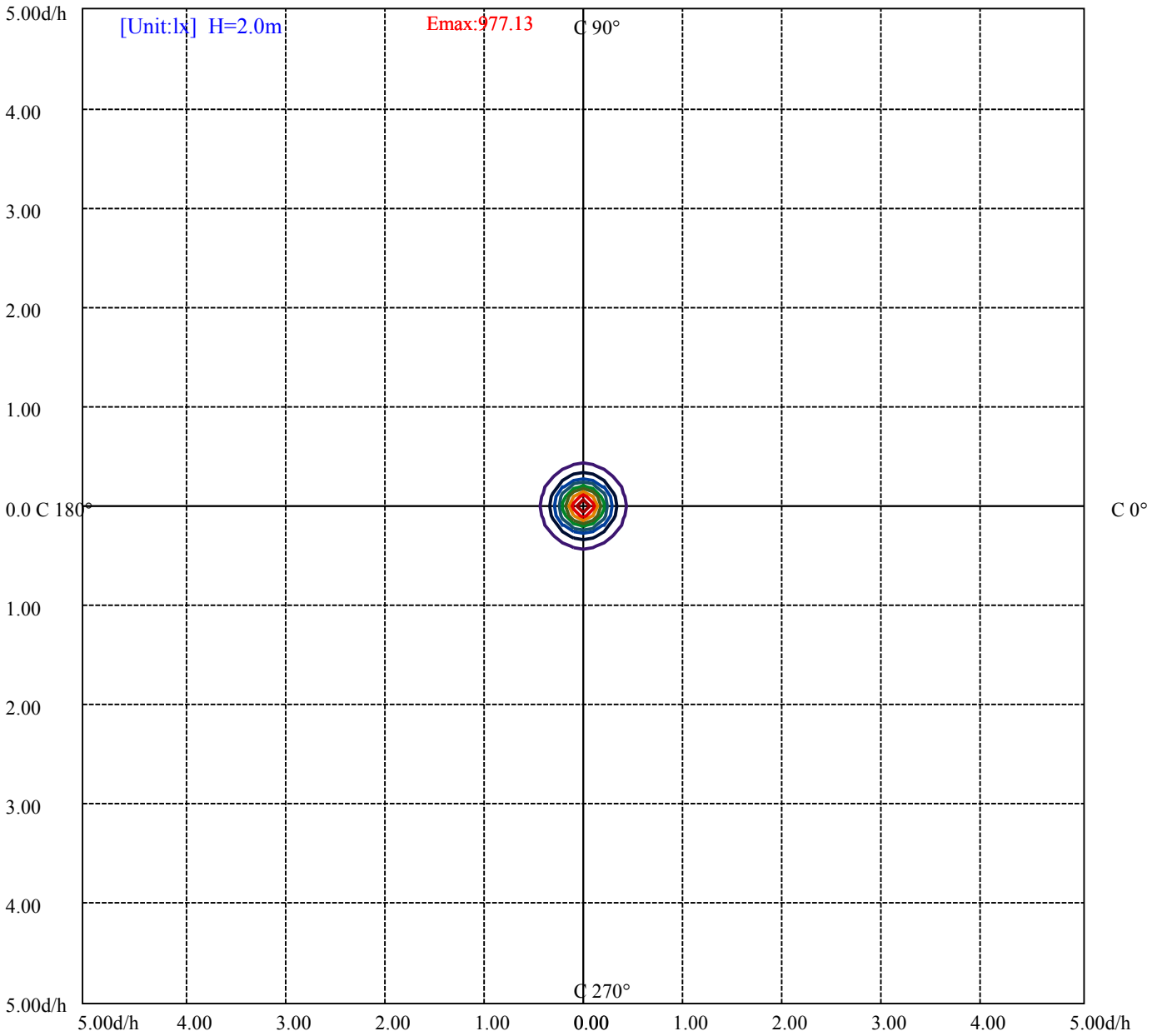
House

[Unit:cd]

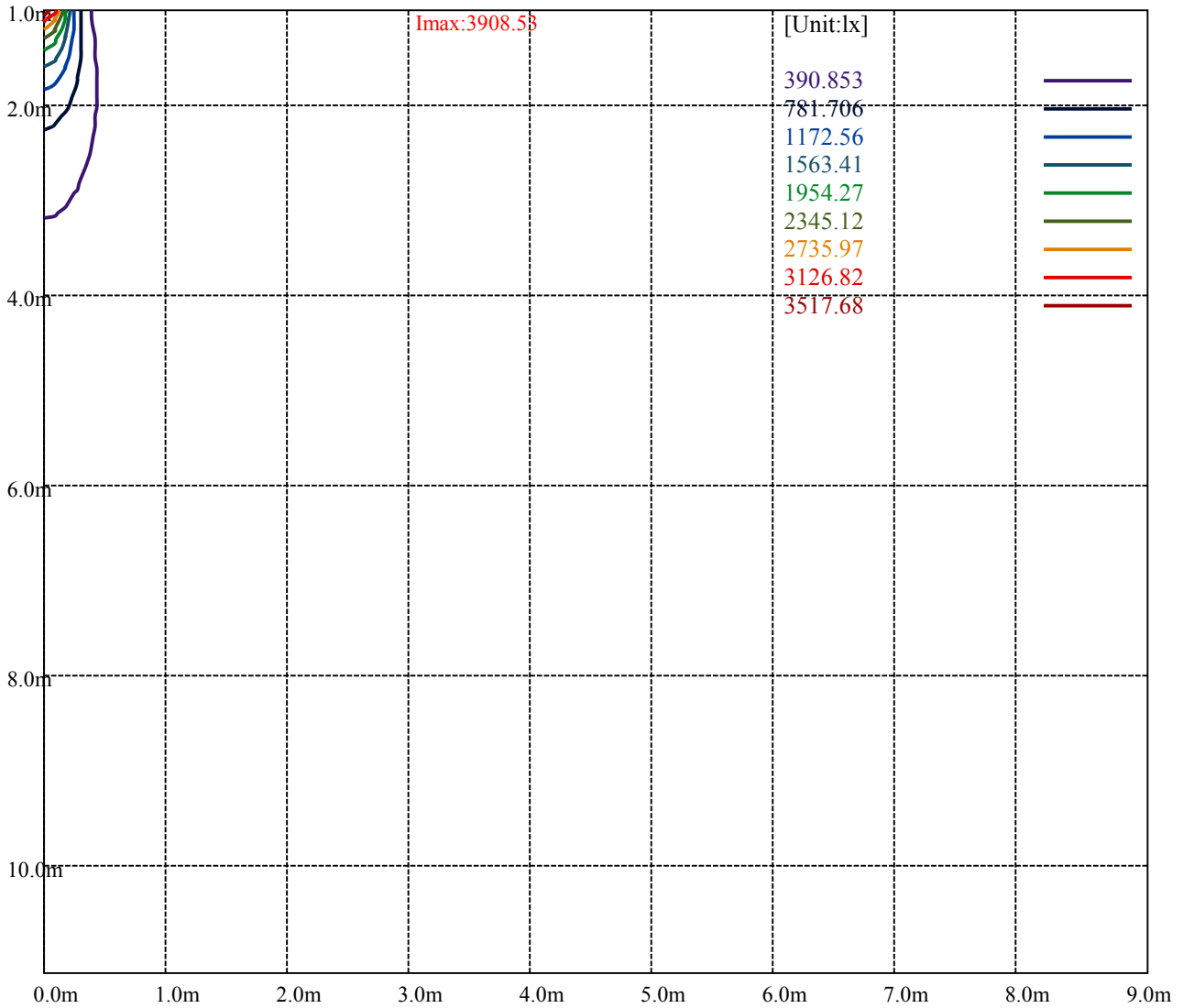
Road

Imax:3908.53

(10%Imax)	390.853	—
(20%Imax)	781.706	—
(30%Imax)	1172.56	—
(40%Imax)	1563.41	—
(50%Imax)	1954.27	—
(60%Imax)	2345.12	—
(70%Imax)	2735.97	—
(80%Imax)	3126.82	—
(90%Imax)	3517.68	—



(10%Emax) 97.71325	—
(20%Emax) 195.4265	—
(30%Emax) 293.14	—
(40%Emax) 390.8525	—
(50%Emax) 488.565	—
(60%Emax) 586.28	—
(70%Emax) 683.9925	—
(80%Emax) 781.705	—
(90%Emax) 879.42	—



Luminance Table

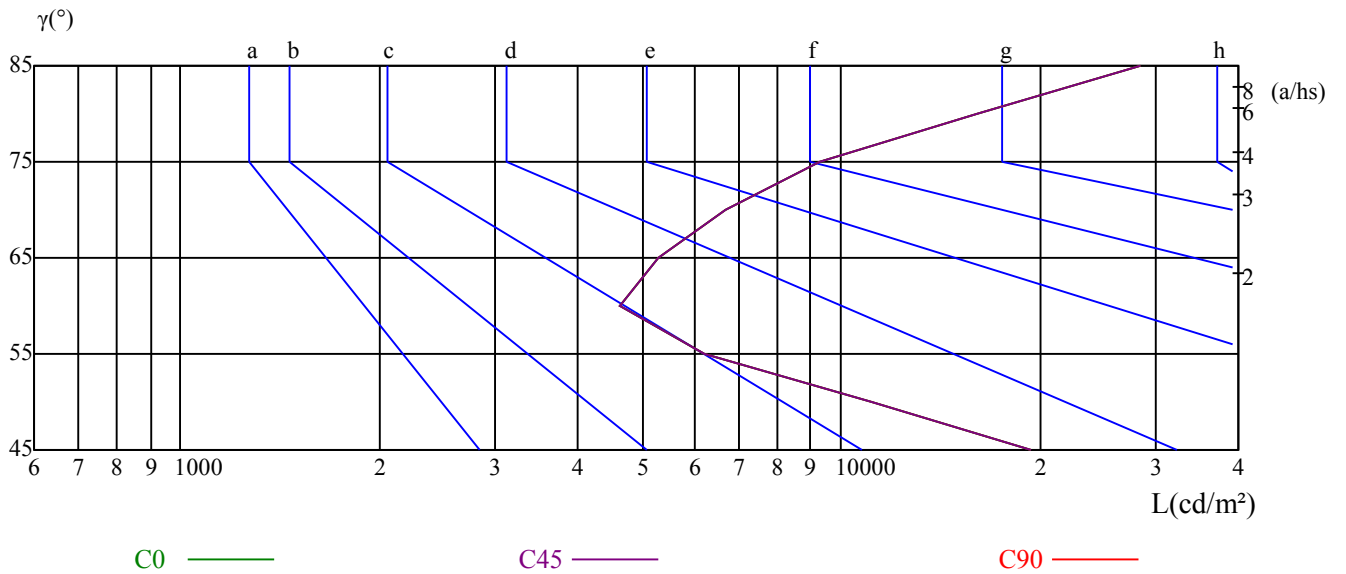
γ	45	50	55	60	65	70	75	80	85
C0	19368	11144	6216	4631	5297	6695	9285	16094	28342
C45	19368	11144	6216	4631	5297	6695	9285	16094	28342
C90	19368	11144	6216	4631	5297	6695	9285	16094	28342

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5297	5297	5297	9285	9285	9285	28342	28342	28342

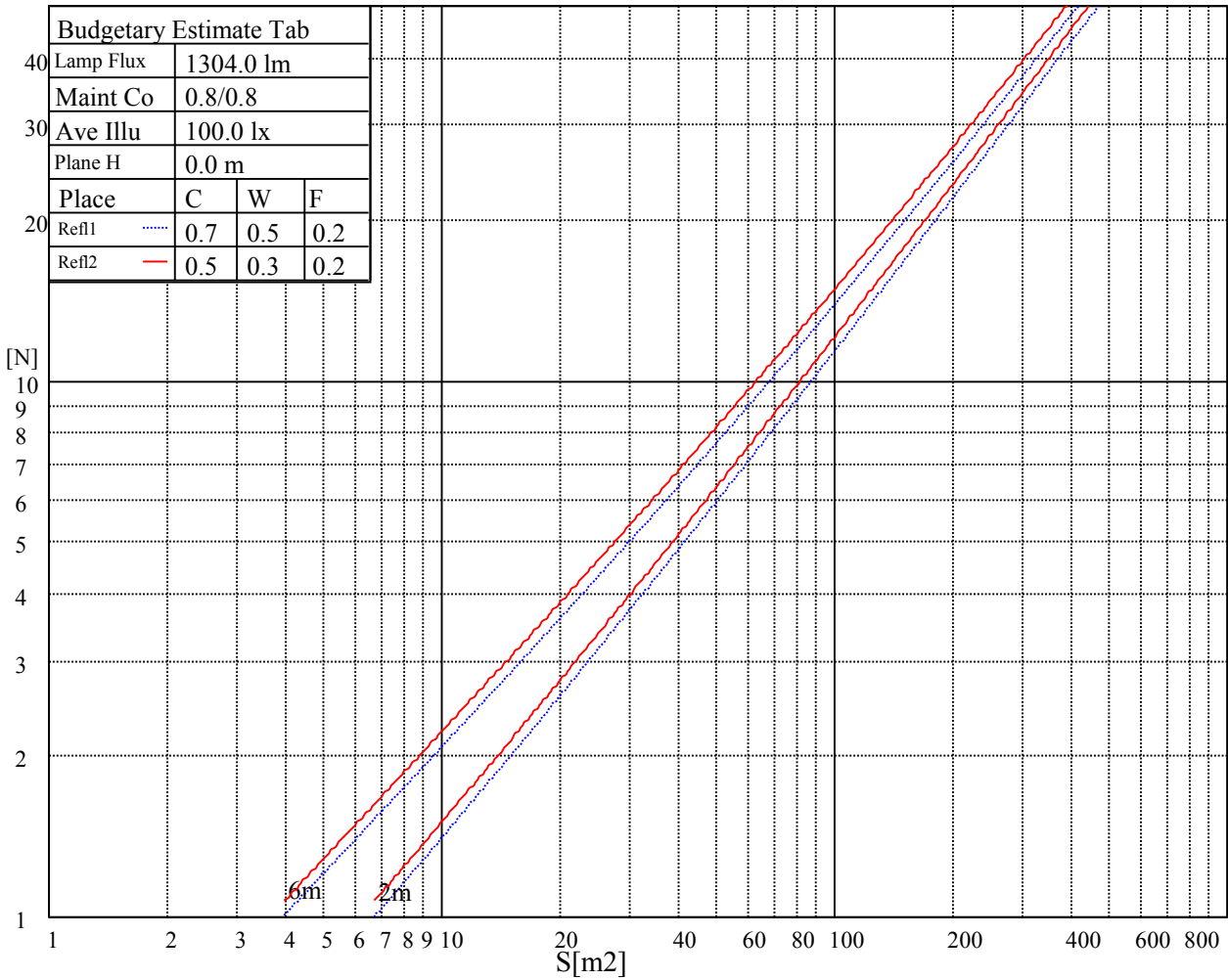
Glare Table

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

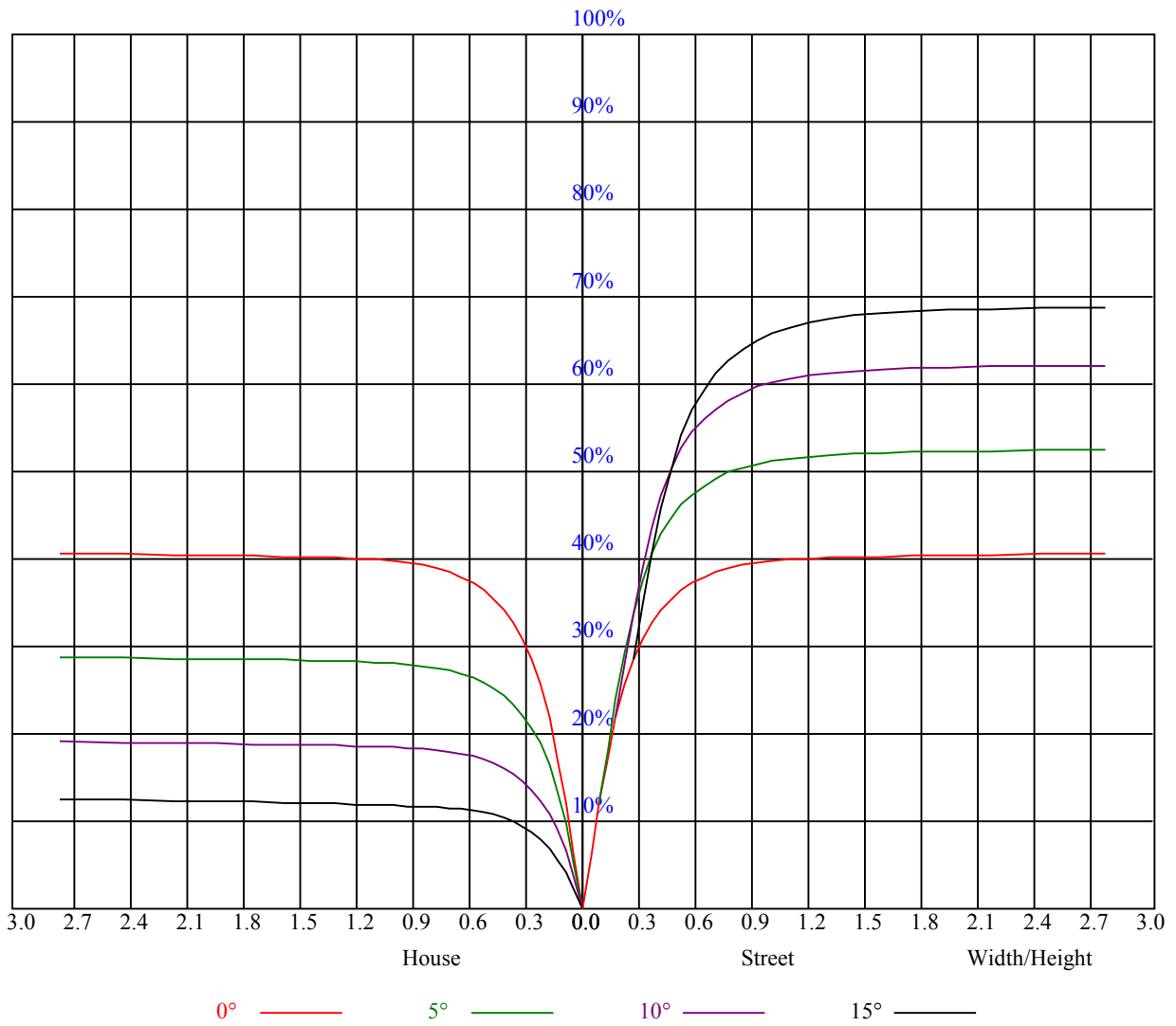
Luminance Limiting Curve



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	9.46	10.46	9.83	10.77	11.09	8.99	9.99	9.36	10.30	10.62
	3H	11.95	12.83	12.33	13.17	13.53	11.61	12.49	11.99	12.82	13.19
	4H	13.72	14.54	14.13	14.89	15.28	13.36	14.17	13.76	14.53	14.92
	6H	16.07	16.82	16.49	17.20	17.60	15.59	16.34	16.01	16.71	17.11
	8H	17.27	17.97	17.70	18.36	18.77	16.77	17.48	17.21	17.87	18.28
	12H	18.98	19.66	19.42	20.04	20.47	18.57	19.24	19.00	19.62	20.06
4H	2H	9.95	10.77	10.36	11.12	11.51	9.58	10.40	9.99	10.76	11.15
	3H	12.91	13.58	13.33	13.99	14.40	12.65	13.32	13.06	13.73	14.13
	4H	14.94	15.55	15.38	15.97	16.42	14.65	15.25	15.08	15.67	16.12
	6H	17.16	17.68	17.63	18.13	18.61	16.76	17.28	17.23	17.73	18.20
	8H	18.60	19.08	19.08	19.53	20.01	18.18	18.66	18.65	19.11	19.59
	12H	20.31	20.73	20.80	21.22	21.70	19.95	20.37	20.44	20.86	21.33
8H	4H	15.76	16.24	16.23	16.69	17.17	15.53	16.02	16.01	16.47	16.94
	6H	18.41	18.80	18.92	19.30	19.78	18.09	18.48	18.60	18.98	19.47
	8H	19.96	20.31	20.50	20.83	21.33	19.63	19.97	20.16	20.49	20.99
	12H	21.71	22.01	22.23	22.51	23.09	21.42	21.72	21.94	22.21	22.79
12H	4H	16.04	16.46	16.53	16.95	17.43	15.86	16.28	16.35	16.77	17.25
	6H	19.10	19.15	19.34	19.62	20.17	18.83	18.88	19.07	19.35	19.90
	8H	20.46	20.76	20.98	21.26	21.84	20.17	20.47	20.69	20.97	21.55
Variation with the observer position at spacings:											
S = 1.0H	2.4/-2.8					2.4/-2.8					
S = 1.5H	3.0/-2.1					3.0/-2.1					
S = 2.0H	3.5/-1.8					3.5/-1.8					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	4.7					4.7					



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	0.98	0.98	0.98	0.96	0.96	0.96	0.91	0.91	0.91	0.88	0.88	0.88	0.84	0.84	0.84	0.82
1	0.92	0.90	0.88	0.90	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.77
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.77	0.76	0.75	0.73
3	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
4	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.65	0.69	0.67	0.65	0.64
6	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.61
7	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.59
8	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55
10	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



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	3899.25	3893.06	3850.88	3776.06	3651.19	3492.56	3318.75	3108.38	2917.13
45.0	3917.81	3906.00	3862.69	3766.50	3645.00	3471.19	3279.94	3090.94	2905.88
90.0	3914.44	3902.63	3850.31	3757.50	3630.38	3451.50	3275.44	3061.13	2843.44
135.0	3902.63	3909.38	3877.31	3813.19	3711.94	3539.25	3371.63	3200.06	2948.63
180.0	3899.25	3876.19	3817.13	3688.31	3552.75	3393.00	3180.94	2957.63	2758.50
225.0	3917.81	3886.88	3838.50	3730.50	3558.38	3414.94	3233.25	2977.88	2810.25
270.0	3914.44	3895.31	3829.50	3735.00	3606.75	3410.44	3232.69	3048.19	2836.13
315.0	3902.63	3864.38	3790.13	3674.25	3537.56	3375.56	3168.56	2952.00	2758.50
360.0	3899.25	3893.06	3850.88	3776.06	3651.19	3492.56	3318.75	3108.38	2917.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2701.69	2479.50	2284.31	2085.19	1869.19	1658.25	1482.75	1269.00	1119.94
45.0	2666.25	2472.19	2278.13	2057.63	1843.88	1656.56	1459.69	1269.56	1120.50
90.0	2647.13	2426.63	2212.31	2017.69	1830.94	1603.13	1428.19	1103.23	1083.94
135.0	2720.25	2516.63	2286.00	2082.94	1884.38	1648.69	1472.63	1295.44	1112.63
180.0	2525.63	2301.75	2106.00	1886.06	1702.13	1497.94	1311.75	1116.34	1011.15
225.0	2613.94	2369.81	2176.31	1978.31	1764.00	1560.94	1389.94	1106.72	1053.17
270.0	2622.38	2431.13	2215.13	2025.00	1809.00	1603.13	1424.25	1234.69	1062.56
315.0	2530.13	2306.25	2107.13	1882.13	1689.75	1483.31	1296.00	1117.35	990.73
360.0	2701.69	2479.50	2284.31	2085.19	1869.19	1658.25	1482.75	1269.00	1119.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	995.06	845.44	730.13	644.06	566.44	504.00	458.44	415.69	383.06
45.0	964.69	841.50	728.44	638.44	570.94	519.19	463.50	424.69	393.75
90.0	927.06	809.16	698.79	609.30	545.85	485.83	443.14	401.91	366.86
135.0	973.13	847.13	717.75	632.81	560.25	493.31	446.06	409.50	374.63
180.0	852.69	748.63	658.74	569.25	513.39	467.10	418.67	385.48	356.63
225.0	907.03	795.43	687.77	602.16	540.51	482.63	440.72	401.63	368.44
270.0	928.69	814.50	693.00	612.56	547.88	481.50	438.19	401.63	369.00
315.0	837.73	734.40	644.85	556.20	501.02	454.28	409.84	373.22	345.09
360.0	995.06	845.44	730.13	644.06	566.44	504.00	458.44	415.69	383.06
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	349.88	320.63	298.13	285.19	257.18	234.23	218.03	202.95	183.99
45.0	358.88	333.56	310.50	286.31	260.72	238.89	217.46	199.07	184.28
90.0	338.85	313.48	285.19	265.05	245.42	221.46	203.06	187.54	170.04
135.0	343.13	318.94	292.50	284.06	247.50	227.36	210.38	193.28	177.19
180.0	324.68	303.36	278.61	253.91	237.66	217.52	198.11	184.61	170.33
225.0	343.58	319.39	293.18	273.77	254.36	229.33	210.77	195.19	178.37
270.0	334.69	310.50	289.69	285.19	248.01	229.84	210.21	193.11	178.65
315.0	317.08	294.36	271.97	251.89	234.79	216.00	199.69	185.29	170.78
360.0	349.88	320.63	298.13	285.19	257.18	234.23	218.03	202.95	183.99
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	169.54	155.70	140.57	127.69	113.74	101.87	90.17	80.44	69.81
45.0	167.85	154.52	141.36	124.31	111.21	98.89	85.73	75.77	66.32
90.0	154.35	141.81	129.71	114.98	103.11	90.17	82.01	71.66	62.21
135.0	163.01	150.19	135.68	123.53	111.38	98.78	87.64	78.24	68.01
180.0	151.76	141.19	129.83	113.01	102.99	92.70	81.84	71.10	62.49
225.0	161.78	148.22	134.04	117.39	104.74	92.14	82.24	71.72	61.82
270.0	162.11	149.12	135.68	118.69	106.03	94.95	82.91	73.80	65.25
315.0	153.23	141.08	128.98	113.18	101.42	90.96	80.33	69.98	61.48
360.0	169.54	155.70	140.57	127.69	113.74	101.87	90.17	80.44	69.81

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	60.41	53.21	46.01	40.61	35.33	30.49	26.89	23.68	20.14
45.0	56.19	49.50	43.65	38.08	33.36	29.70	25.99	23.01	19.86
90.0	54.96	48.54	41.18	37.01	33.13	28.58	25.43	22.61	19.46
135.0	59.06	52.14	45.34	40.16	34.99	30.43	26.94	23.79	20.53
180.0	54.06	47.53	41.23	35.78	31.50	27.39	23.74	20.93	18.39
225.0	54.39	47.98	41.29	36.84	33.02	28.74	25.76	23.12	20.25
270.0	56.19	49.89	44.44	39.15	34.59	31.16	27.68	24.81	21.66
315.0	53.49	47.31	41.29	36.17	32.18	28.24	24.81	22.05	19.52
360.0	60.41	53.21	46.01	40.61	35.33	30.49	26.89	23.68	20.14
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.44	14.91	11.48	9.96	9.28	9.23	9.17	9.17	9.17
45.0	16.76	14.40	11.42	9.68	9.51	9.28	9.06	8.94	8.78
90.0	16.59	14.46	11.59	10.35	9.96	9.51	9.39	9.17	9.06
135.0	18.00	15.64	12.15	10.35	9.79	9.56	9.39	9.28	9.17
180.0	15.30	12.49	10.41	9.34	9.17	9.11	9.00	8.94	8.94
225.0	17.16	14.74	11.76	10.01	9.68	9.34	9.23	9.06	8.94
270.0	18.79	16.54	13.39	11.42	11.03	10.74	10.52	10.35	10.24
315.0	16.37	13.67	11.76	10.46	10.29	10.24	10.13	10.01	9.96
360.0	17.44	14.91	11.48	9.96	9.28	9.23	9.17	9.17	9.17
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.17	9.17	9.23	9.23	9.23	9.28	9.34	9.34	9.45
45.0	8.66	8.61	8.49	8.49	8.55	8.55	8.66	8.72	8.83
90.0	8.94	8.89	8.89	8.89	8.89	8.94	9.00	9.06	9.11
135.0	9.11	9.06	9.00	9.06	9.06	9.11	9.17	9.23	9.34
180.0	8.89	8.94	8.94	9.06	9.11	9.17	9.23	9.28	9.34
225.0	8.89	8.89	8.83	8.83	8.83	8.89	8.94	9.00	9.11
270.0	10.18	10.18	10.13	10.18	10.24	10.29	10.41	10.52	10.63
315.0	9.96	9.90	9.84	9.84	9.84	9.84	9.90	9.90	9.96
360.0	9.17	9.17	9.23	9.23	9.23	9.28	9.34	9.34	9.45
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.45	9.45	9.45	9.51	9.56	9.68	9.84	9.96	10.07
45.0	8.89	9.00	9.11	9.17	9.45	9.73	10.69	12.04	11.42
90.0	9.17	9.23	9.28	9.34	9.39	9.68	10.13	10.58	10.46
135.0	9.39	9.45	9.56	9.73	9.90	10.13	10.24	10.35	10.41
180.0	9.45	9.62	9.73	9.84	10.01	10.13	10.24	10.46	10.63
225.0	9.23	9.34	9.51	9.68	11.19	13.73	15.64	16.82	15.53
270.0	10.80	10.86	11.03	11.48	12.21	12.94	13.44	13.22	12.60
315.0	10.01	10.01	10.01	10.01	10.07	10.18	10.35	10.41	10.46
360.0	9.45	9.45	9.45	9.51	9.56	9.68	9.84	9.96	10.07
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.13	10.13	10.07	9.90	9.45	9.11	5.23	4.50	4.44
45.0	10.13	9.96	10.01	10.07	9.90	9.11	4.78	4.50	4.44
90.0	10.35	10.13	9.96	9.84	9.62	9.17	4.89	4.44	4.39
135.0	10.41	10.13	9.96	9.79	9.68	9.39	9.17	4.67	4.39
180.0	10.74	10.80	10.69	10.52	10.24	10.07	5.18	4.50	4.39
225.0	13.67	12.21	11.93	11.93	11.87	11.48	9.90	4.73	4.44
270.0	12.15	11.93	11.48	11.03	10.63	10.13	6.69	4.56	4.39
315.0	10.35	10.24	10.07	9.79	9.56	8.72	4.78	4.44	4.39
360.0	10.13	10.13	10.07	9.90	9.45	9.11	5.23	4.50	4.44

Intensity data(cd)

C/γ(°)	90.0
0.0	4.39
45.0	4.39
90.0	4.39
135.0	4.33
180.0	4.28
225.0	4.39
270.0	4.33
315.0	4.33
360.0	4.39