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NATA

LumCAT: 1676-A	
Luminaire: 92.70.188.00+92.70.147.00	
Report No: NATA0100	Voltage(V): 34.9000
Test No: GC2019011617	Current(A): 0.3000
LampCAT: NICHIA NFCWL036B-V3	Power (W): 10.4700
Lamp flux(lm): 1299.0	PF: 1.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 46	Width(mm): 46
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1069.24
Efficiency(%): 82.31%
Lumens(lm)/Power(W): 102.24
Central intensity(cd): 5280.891
Maximum intensity(cd): 5280.891
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=19.2
 [C90/270]Total=19.2
Field angle(10%Imax): [C0/180]Total=42.3
 [C90/270]Total=42.3
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.33 C90_270=0.33
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.41%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.649%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5280.891	1.263	1.263	.097%	.118%
1.0	5245.805	10.040	11.303	.773%	1.057%
2.0	5147.297	19.699	31.002	1.516%	2.899%
3.0	4952.531	28.424	59.426	2.188%	5.558%
4.0	4711.008	36.037	95.463	2.774%	8.928%
5.0	4405.711	42.108	137.571	3.242%	12.866%
6.0	4044.164	46.357	183.928	3.569%	17.202%
7.0	3640.641	48.655	232.583	3.746%	21.752%
8.0	3275.719	49.994	282.576	3.849%	26.428%
9.0	2872.688	49.280	331.856	3.794%	31.037%
10.0	2470.852	47.051	378.907	3.622%	35.437%
11.0	2133.773	44.648	423.555	3.437%	39.613%
12.0	1779.933	40.582	464.137	3.124%	43.408%
13.0	1491.202	36.785	500.922	2.832%	46.848%
14.0	1245.424	33.040	533.963	2.544%	49.938%
15.0	1041.427	29.558	563.521	2.275%	52.703%
16.0	889.369	26.883	590.404	2.069%	55.217%
17.0	780.722	25.031	615.435	1.927%	57.558%
18.0	695.489	23.568	639.003	1.814%	59.762%
19.0	631.118	22.532	661.535	1.735%	61.869%
20.0	579.059	21.718	683.253	1.672%	63.901%
21.0	533.454	20.964	704.218	1.614%	65.861%
22.0	496.413	20.393	724.61	1.570%	67.768%
23.0	464.456	19.901	744.511	1.532%	69.630%
24.0	433.779	19.348	763.859	1.489%	71.439%
25.0	403.523	18.701	782.56	1.440%	73.188%
26.0	377.128	18.129	800.69	1.396%	74.884%
27.0	347.611	17.306	817.995	1.332%	76.502%
28.0	319.430	16.445	834.44	1.266%	78.040%
29.0	293.998	15.630	850.071	1.203%	79.502%
30.0	265.282	14.546	864.616	1.120%	80.862%
31.0	238.627	13.478	878.094	1.038%	82.123%
32.0	218.159	12.678	890.771	.976%	83.308%
33.0	196.298	11.724	902.495	.903%	84.405%
34.0	177.813	10.904	913.399	.839%	85.425%
35.0	162.998	10.252	923.652	.789%	86.384%
36.0	148.275	9.557	933.209	.736%	87.277%
37.0	135.028	8.911	942.12	.686%	88.111%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	122.836	8.293	950.413	.638%	88.886%
39.0	111.108	7.668	958.081	.590%	89.604%
40.0	100.526	7.086	965.167	.545%	90.266%
41.0	91.645	6.593	971.76	.508%	90.883%
42.0	82.920	6.084	977.845	.468%	91.452%
43.0	74.707	5.587	983.432	.430%	91.974%
44.0	67.992	5.179	988.611	.399%	92.459%
45.0	61.390	4.760	993.372	.366%	92.904%
46.0	55.716	4.395	997.767	.338%	93.315%
47.0	50.611	4.059	1001.826	.312%	93.695%
48.0	46.463	3.786	1005.612	.291%	94.049%
49.0	42.525	3.519	1009.132	.271%	94.378%
50.0	39.389	3.309	1012.441	.255%	94.687%
51.0	36.689	3.127	1015.567	.241%	94.980%
52.0	34.045	2.942	1018.509	.226%	95.255%
53.0	31.591	2.767	1021.276	.213%	95.514%
54.0	29.173	2.588	1023.864	.199%	95.756%
55.0	26.648	2.394	1026.258	.184%	95.980%
56.0	23.794	2.163	1028.421	.167%	96.182%
57.0	20.841	1.917	1030.338	.148%	96.361%
58.0	17.670	1.643	1031.981	.126%	96.515%
59.0	15.026	1.412	1033.393	.109%	96.647%
60.0	12.705	1.207	1034.6	.093%	96.760%
61.0	11.109	1.066	1035.666	.082%	96.860%
62.0	10.463	1.013	1036.679	.078%	96.954%
63.0	10.209	0.998	1037.676	.077%	97.048%
64.0	10.146	1.000	1038.676	.077%	97.141%
65.0	10.146	1.008	1039.684	.078%	97.235%
66.0	10.174	1.019	1040.704	.078%	97.331%
67.0	10.238	1.033	1041.737	.080%	97.427%
68.0	10.427	1.060	1042.797	.082%	97.527%
69.0	10.835	1.109	1043.907	.085%	97.630%
70.0	11.412	1.176	1045.083	.091%	97.740%
71.0	12.115	1.256	1046.339	.097%	97.858%
72.0	12.811	1.336	1047.675	.103%	97.983%
73.0	13.556	1.422	1049.096	.109%	98.116%
74.0	14.063	1.482	1050.579	.114%	98.254%
75.0	14.407	1.526	1052.105	.117%	98.397%

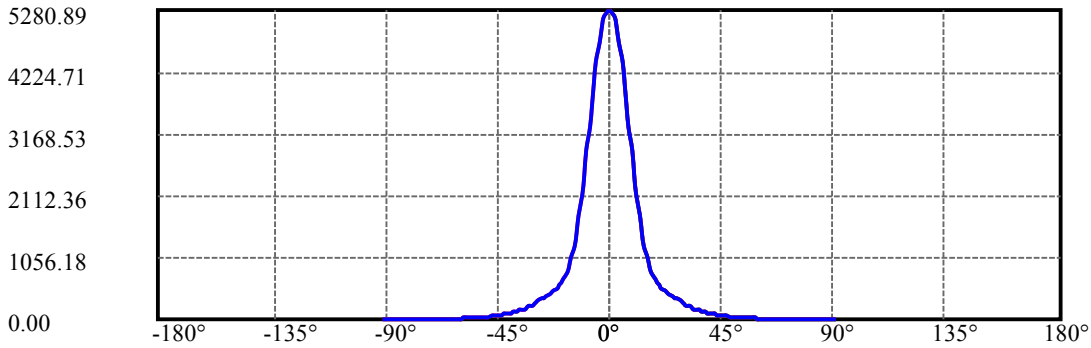
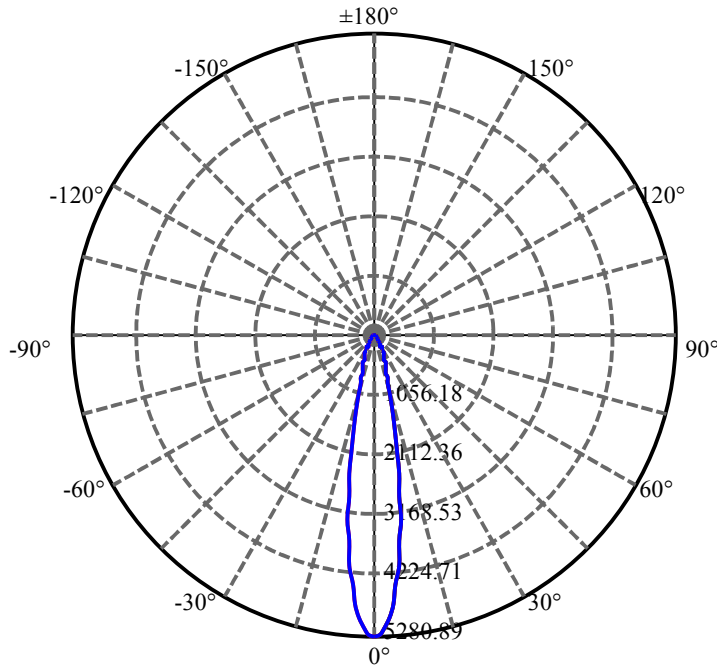
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.498	1.543	1053.648	.119%	98.541%
77.0	14.273	1.525	1055.173	.117%	98.684%
78.0	14.055	1.508	1056.68	.116%	98.825%
79.0	13.802	1.486	1058.166	.114%	98.964%
80.0	13.366	1.444	1059.61	.111%	99.099%
81.0	12.642	1.369	1060.979	.105%	99.227%
82.0	11.960	1.299	1062.278	.100%	99.348%
83.0	11.728	1.277	1063.554	.098%	99.468%
84.0	11.595	1.265	1064.819	.097%	99.586%
85.0	11.405	1.246	1066.065	.096%	99.703%
86.0	9.246	1.011	1067.076	.078%	99.797%
87.0	7.481	0.819	1067.895	.063%	99.874%
88.0	5.738	0.629	1068.524	.048%	99.933%
89.0	4.416	0.484	1069.008	.037%	99.978%
90.0	4.303	0.236	1069.244	.018%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	864.62	66.56%	80.86%
0-40	965.17	74.30%	90.27%
0-60	1034.60	79.65%	96.76%
0-90	1069.01	82.29%	99.98%
0-120	1069.01	82.29%	99.98%
0-180	1069.24	82.31%	100.00%
60-90	35.61	2.74%	3.33%
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%
0-29.37	855.40	65.85%	80.00%

ZONAL LUMEN SUMMARY

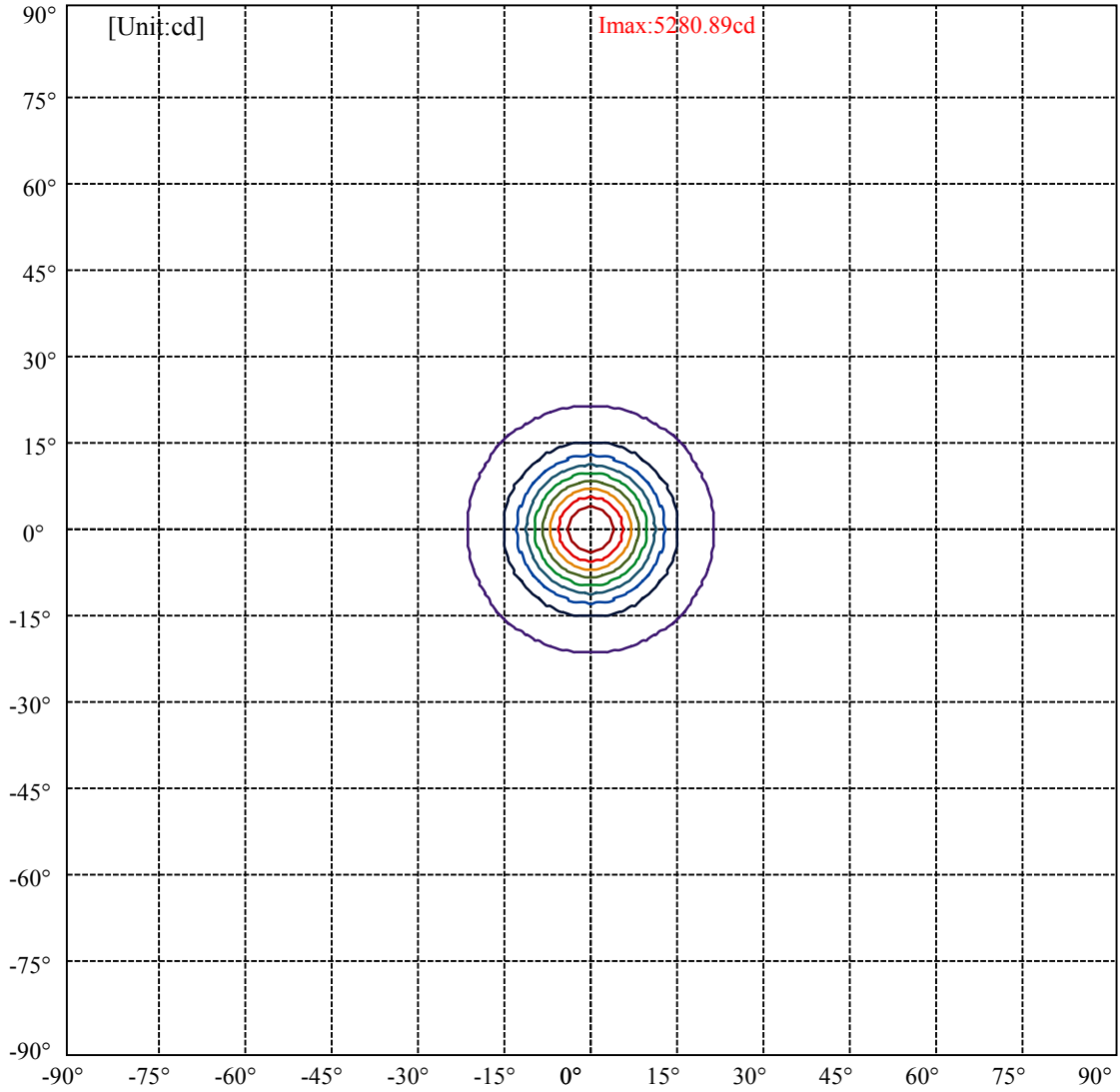
0-10	378.91
10-20	304.35
20-30	181.36
30-40	100.55
40-50	47.27
50-60	22.16
60-70	10.48
70-80	14.53
80-90	9.40
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



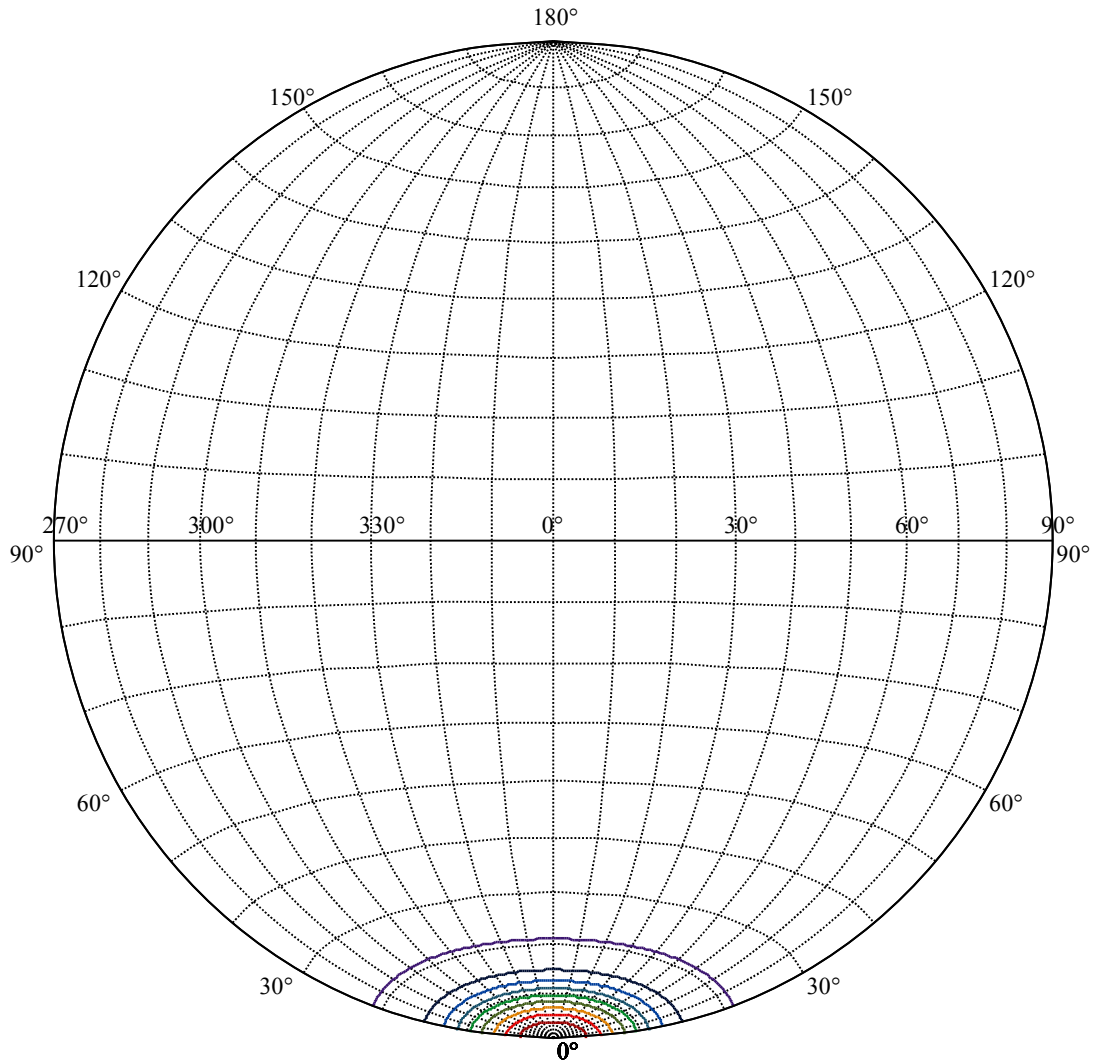
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:21.1 Right:21.1
:C90/270Left:21.1 Right:21.1

Beam Angle(50%Imax):C0/180Left:9.6 Right:9.6
:C90/270Left:9.6 Right:9.6



(10%Imax) 528.089	—
(20%Imax) 1056.18	—
(30%Imax) 1584.27	—
(40%Imax) 2112.36	—
(50%Imax) 2640.45	—
(60%Imax) 3168.53	—
(70%Imax) 3696.62	—
(80%Imax) 4224.71	—
(90%Imax) 4752.8	—



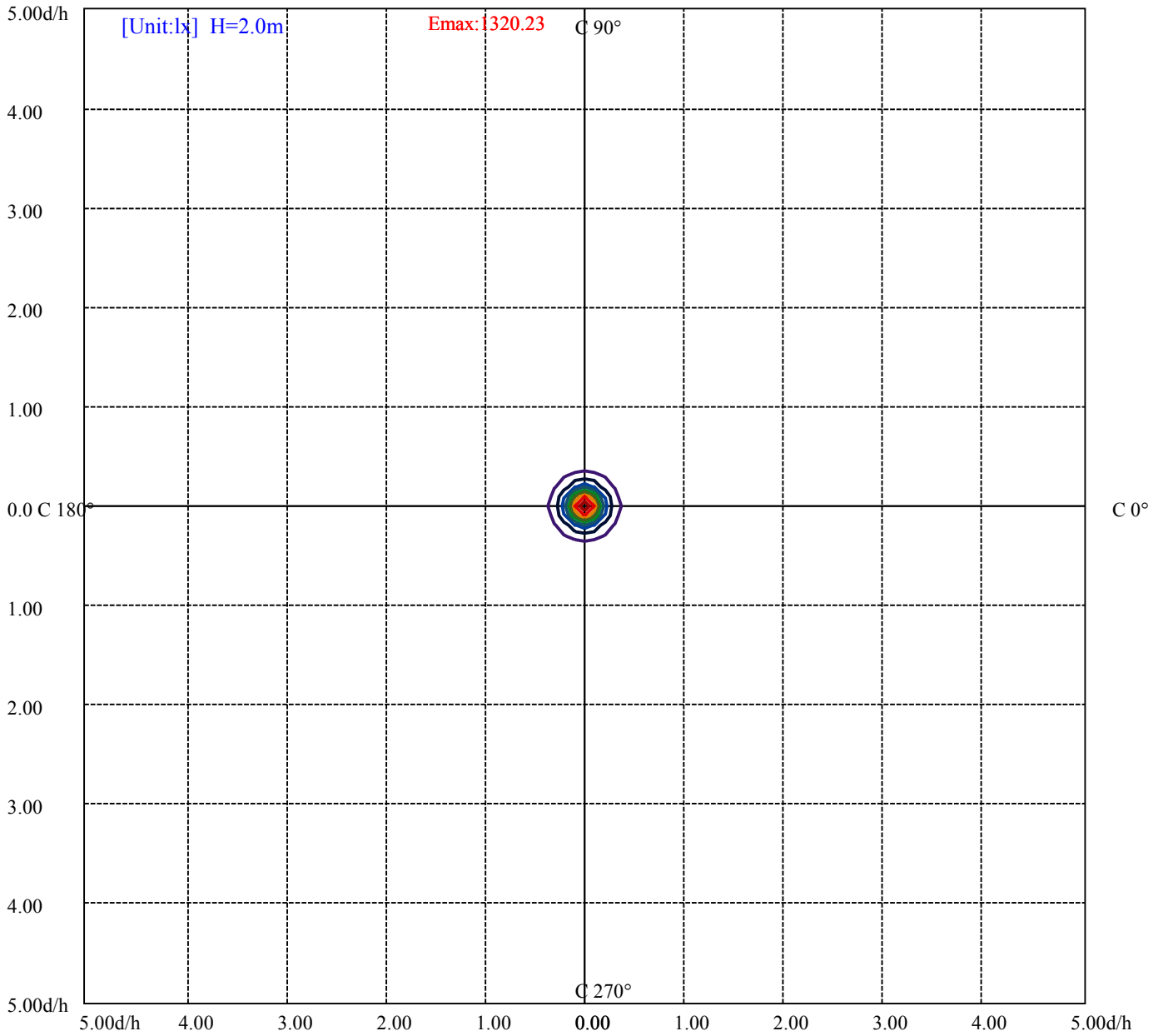
House

[Unit:cd]

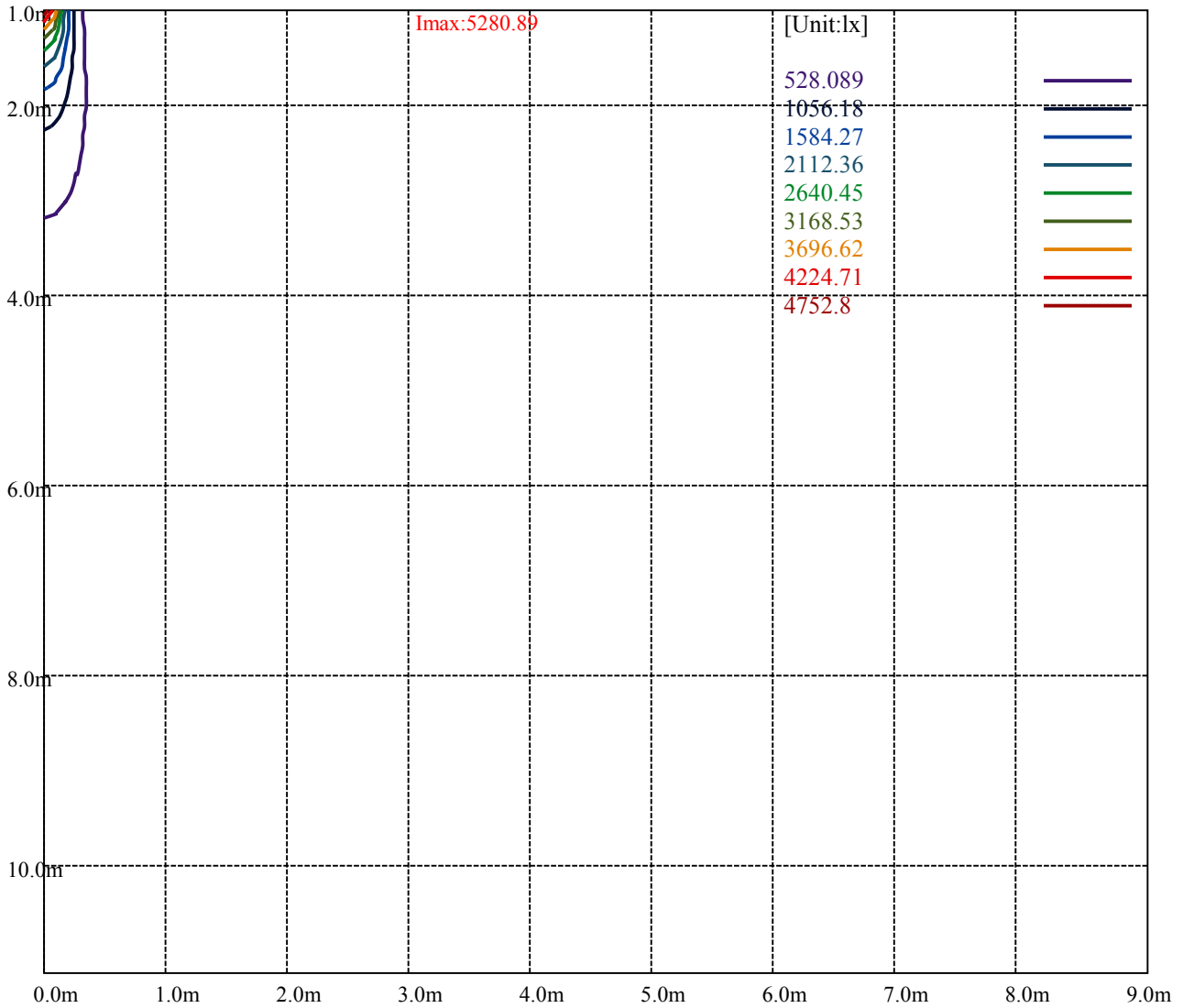
Road

Imax:5280.89

(10%Imax) 528.089	—
(20%Imax) 1056.18	—
(30%Imax) 1584.27	—
(40%Imax) 2112.36	—
(50%Imax) 2640.45	—
(60%Imax) 3168.53	—
(70%Imax) 3696.62	—
(80%Imax) 4224.71	—
(90%Imax) 4752.8	—



- (10%Emax) 132.0222
- (20%Emax) 264.045
- (30%Emax) 396.0675
- (40%Emax) 528.0875
- (50%Emax) 660.11
- (60%Emax) 792.1325
- (70%Emax) 924.155
- (80%Emax) 1056.177
- (90%Emax) 1188.2



Luminance Table

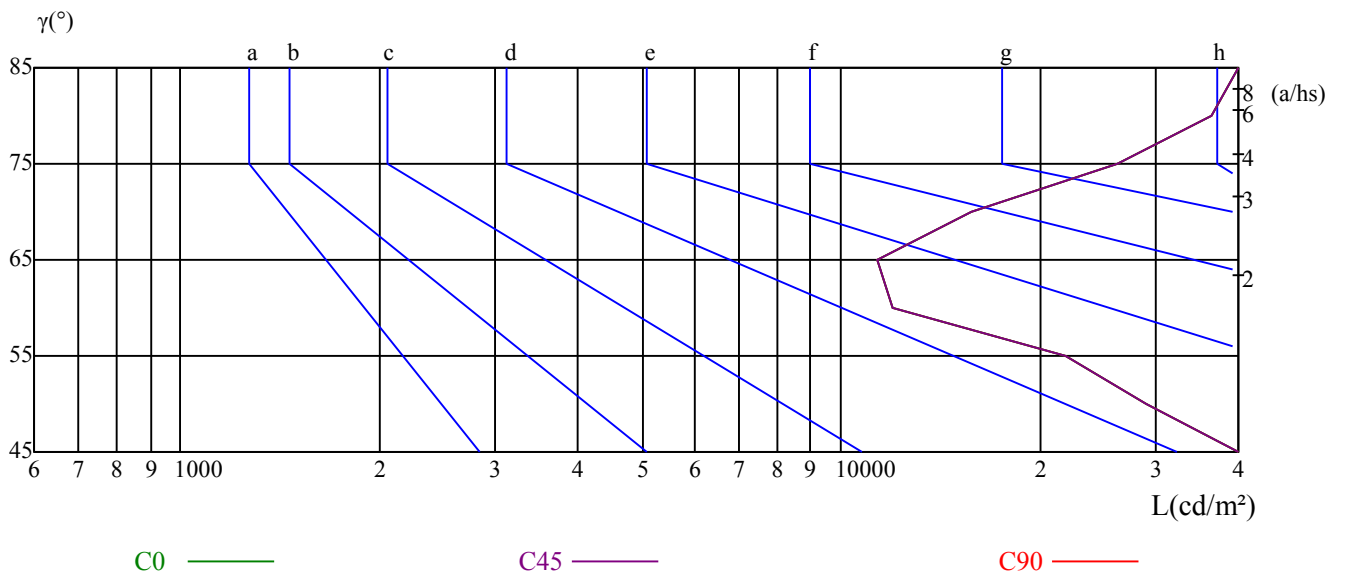
γ	45	50	55	60	65	70	75	80	85
C0	41029	28960	21957	12009	11346	15768	26306	36377	61840
C45	41029	28960	21957	12009	11346	15768	26306	36377	61840
C90	41029	28960	21957	12009	11346	15768	26306	36377	61840

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11346	11346	11346	26306	26306	26306	61840	61840	61840

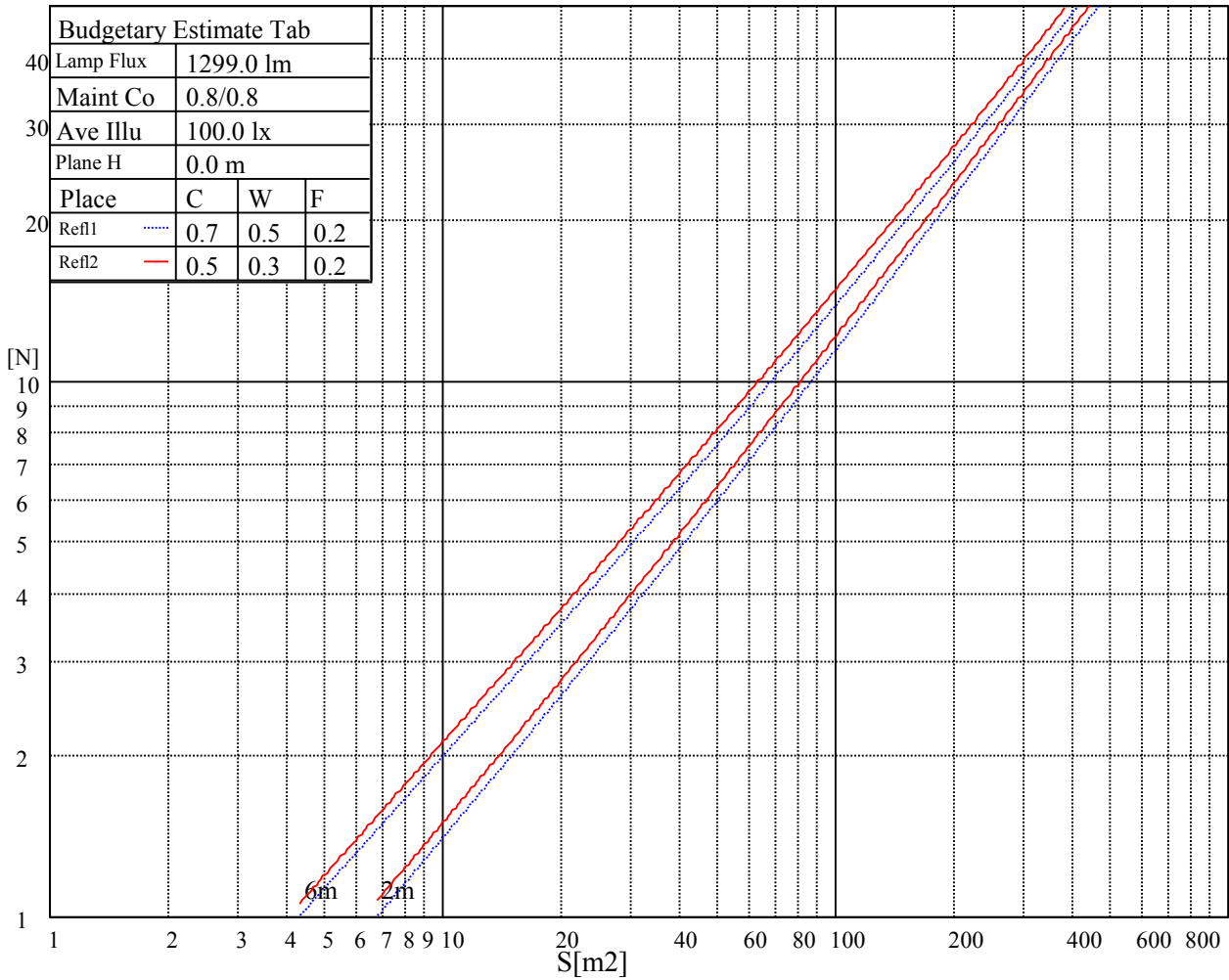
Glare Table

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

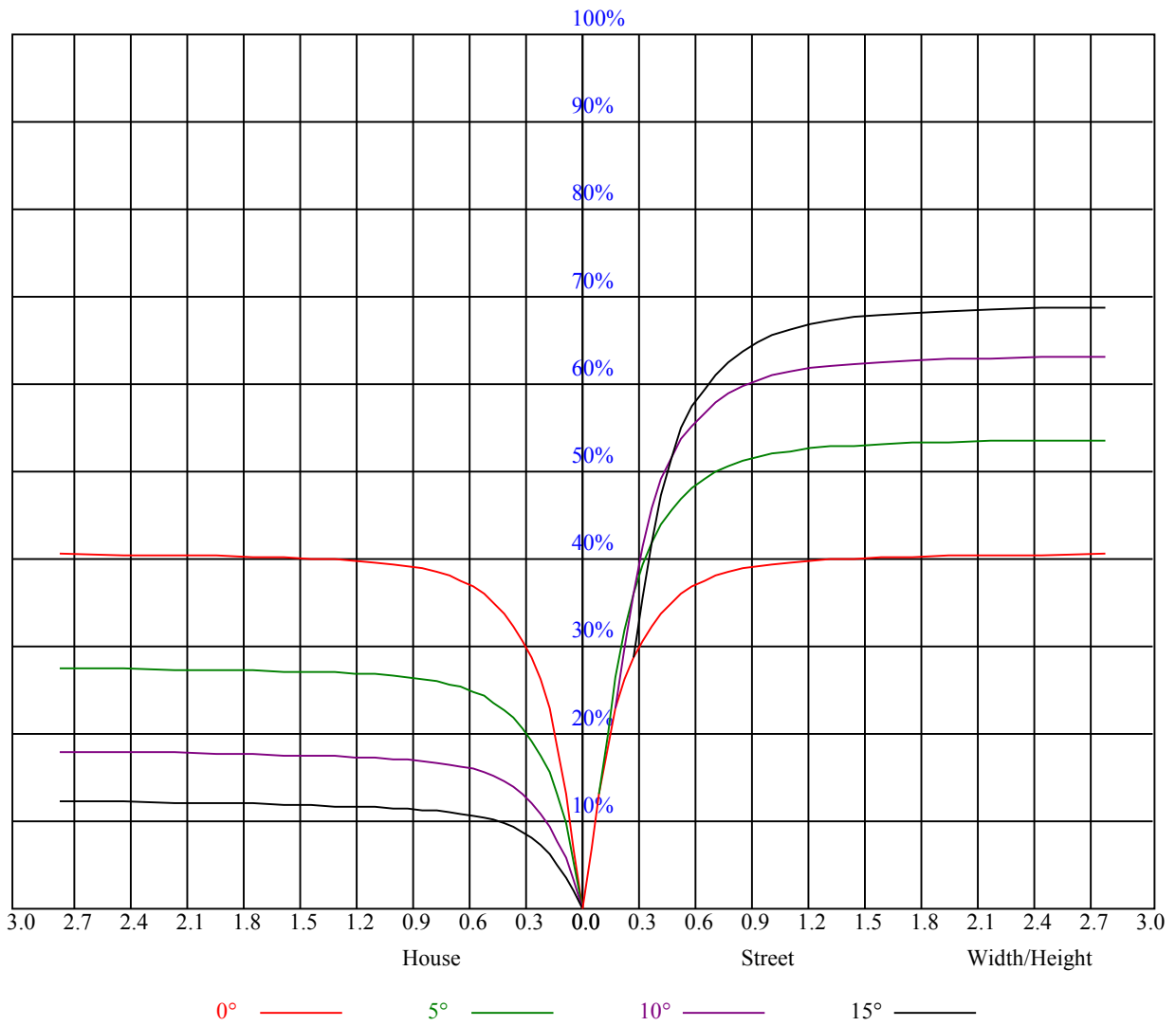
Luminance Limiting Curve



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	14.80	15.83	15.16	16.14	16.45	14.86	15.89	15.22	16.20	16.51
	3H	16.33	17.24	16.71	17.57	17.94	16.33	17.24	16.71	17.57	17.94
	4H	18.31	19.16	18.72	19.51	19.90	17.81	18.66	18.22	19.01	19.40
	6H	20.33	21.10	20.75	21.48	21.87	19.60	20.38	20.02	20.75	21.15
	8H	21.27	22.00	21.71	22.40	22.80	20.57	21.29	21.00	21.69	22.10
	12H	22.72	23.42	23.15	23.80	24.23	22.12	22.82	22.55	23.20	23.63
4H	2H	14.94	15.78	15.34	16.13	16.52	14.99	15.83	15.40	16.19	16.58
	3H	17.14	17.84	17.56	18.25	18.65	17.10	17.80	17.52	18.21	18.61
	4H	19.54	20.16	19.98	20.59	21.04	19.03	19.65	19.47	20.08	20.52
	6H	21.43	21.97	21.90	22.42	22.89	20.76	21.29	21.23	21.74	22.22
	8H	22.58	23.08	23.05	23.53	24.00	21.93	22.43	22.40	22.88	23.35
	12H	24.02	24.46	24.51	24.95	25.43	23.47	23.91	23.96	24.40	24.87
8H	4H	20.33	20.83	20.81	21.28	21.76	19.94	20.45	20.42	20.90	21.37
	6H	22.54	22.95	23.05	23.45	23.94	22.03	22.43	22.54	22.93	23.42
	8H	23.82	24.18	24.35	24.70	25.20	23.32	23.68	23.85	24.20	24.70
	12H	25.33	25.65	25.85	26.14	26.72	24.90	25.21	25.42	25.71	26.29
12H	4H	20.52	20.96	21.01	21.45	21.92	20.19	20.63	20.68	21.11	21.59
	6H	23.19	23.21	23.38	23.68	24.23	22.74	22.76	22.93	23.23	23.78
	8H	24.24	24.55	24.76	25.05	25.63	23.80	24.12	24.32	24.61	25.19
Variation with the observer position at spacings:											
S = 1.0H	1.7/-1.6					1.7/-1.6					
S = 1.5H	2.1/-1.4					2.1/-1.4					
S = 2.0H	2.6/-1.3					2.6/-1.3					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	7.9					7.9					



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	0.92	0.92	0.92	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	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
6	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.62
7	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
8	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.57
9	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.56	0.56
10	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.54



NATA 1676-A

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	5207.63	5309.44	5345.44	5305.50	5203.13	5024.81	4700.81	4376.81	4022.44
45.0	5280.75	5398.31	5430.94	5413.50	5308.31	5101.88	4833.00	4465.69	4118.06
90.0	5344.31	5371.88	5339.25	5227.88	5023.13	4760.44	4447.13	4008.38	3642.75
135.0	5290.88	5255.44	5141.25	4942.13	4691.25	4348.13	3959.44	3596.06	3238.88
180.0	5207.63	4992.75	4776.19	4446.00	4059.00	3687.19	3309.19	2838.94	2465.44
225.0	5280.75	5136.19	4908.94	4501.69	4195.69	3819.38	3382.31	2958.19	2584.13
270.0	5344.31	5258.81	5085.00	4824.00	4524.19	4132.13	3705.75	3323.81	2945.81
315.0	5290.88	5243.63	5151.38	4959.56	4683.38	4371.75	4015.69	3557.25	3188.25
360.0	5207.63	5309.44	5345.44	5305.50	5203.13	5024.81	4700.81	4376.81	4022.44
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3565.13	3207.38	2850.19	2448.56	2059.31	1732.50	1405.69	1137.38	959.06
45.0	3756.38	3304.13	2937.38	2568.38	2120.06	1779.19	1476.56	1168.88	988.31
90.0	3278.81	2823.75	2462.06	2113.88	1741.50	1415.25	1103.57	976.61	846.34
135.0	2785.50	2421.56	2071.69	1703.81	1387.69	1162.13	970.88	831.38	744.19
180.0	2107.13	1699.31	1419.19	1116.56	1013.01	857.87	770.46	702.39	630.96
225.0	2175.19	1796.63	1496.81	1116.34	1031.79	883.35	789.30	710.49	653.06
270.0	2489.63	2138.63	1803.94	1469.81	1195.31	1013.06	865.69	762.19	694.69
315.0	2823.75	2375.44	2028.94	1702.13	1380.94	1120.05	949.28	825.64	729.17
360.0	3565.13	3207.38	2850.19	2448.56	2059.31	1732.50	1405.69	1137.38	959.06
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	821.81	738.56	669.38	612.00	568.69	529.31	487.69	458.44	432.00
45.0	856.69	751.50	677.81	622.69	570.38	527.06	489.38	456.19	430.31
90.0	740.93	663.58	606.71	552.71	508.11	474.69	445.16	412.20	388.46
135.0	671.06	615.38	564.75	519.19	484.31	453.94	419.63	395.44	370.13
180.0	582.19	540.68	500.34	466.54	438.92	410.46	384.41	352.35	320.63
225.0	599.46	552.49	516.60	482.23	452.19	428.23	403.26	369.84	342.23
270.0	631.69	583.31	537.75	496.69	466.31	441.00	415.13	388.69	362.25
315.0	660.09	603.45	559.13	515.59	482.40	450.96	425.59	395.04	371.03
360.0	821.81	738.56	669.38	612.00	568.69	529.31	487.69	458.44	432.00
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	399.38	373.50	345.94	315.00	286.88	271.18	235.91	213.64	196.20
45.0	402.75	376.31	349.88	321.75	285.75	268.09	233.66	209.31	191.59
90.0	364.61	332.10	303.81	275.40	242.78	220.33	200.53	179.21	166.50
135.0	334.13	306.00	285.19	248.91	224.55	204.02	183.71	166.89	154.18
180.0	294.36	269.49	239.96	219.32	200.31	179.10	165.21	152.66	138.77
225.0	313.43	282.88	254.81	232.14	209.36	189.39	174.15	158.40	143.78
270.0	327.38	299.81	285.75	246.60	218.93	198.96	182.36	164.36	151.43
315.0	344.87	315.34	286.65	263.14	240.47	214.20	194.85	178.03	161.55
360.0	399.38	373.50	345.94	315.00	286.88	271.18	235.91	213.64	196.20
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	178.37	164.42	150.19	136.01	124.14	113.46	101.36	92.70	84.49
45.0	175.22	159.58	146.31	133.14	119.36	108.62	97.54	87.81	80.27
90.0	152.10	138.09	128.14	115.65	103.11	95.18	86.96	77.18	71.72
135.0	141.36	129.99	117.84	106.82	97.76	89.55	80.38	73.52	66.88
180.0	125.38	114.30	103.16	93.21	84.94	76.16	69.08	61.71	55.18
225.0	128.59	115.09	104.29	93.60	84.32	76.78	69.69	61.43	55.46
270.0	138.04	123.58	110.48	100.07	89.89	82.24	74.53	67.61	62.10
315.0	147.15	135.17	122.29	110.36	100.69	91.18	83.81	75.71	67.84
360.0	178.37	164.42	150.19	136.01	124.14	113.46	101.36	92.70	84.49

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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	75.38	68.51	62.04	55.46	49.84	45.68	41.85	38.87	35.83
45.0	72.34	64.74	58.05	52.31	46.24	42.58	39.60	36.73	34.14
90.0	65.93	59.91	54.56	50.23	46.24	42.64	39.66	36.51	33.92
135.0	59.12	53.66	48.99	45.11	41.34	38.87	36.51	34.03	31.73
180.0	50.18	45.96	41.68	38.64	35.94	32.85	30.43	28.13	25.93
225.0	50.12	45.45	41.96	39.49	37.07	35.04	33.47	31.50	29.64
270.0	56.76	51.98	48.21	44.83	40.89	38.03	35.21	32.34	29.81
315.0	61.31	55.52	49.39	45.62	42.64	39.43	36.79	34.26	31.73
360.0	75.38	68.51	62.04	55.46	49.84	45.68	41.85	38.87	35.83
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.85	30.26	27.68	25.37	23.29	20.53	16.03	12.38	10.58
45.0	32.01	29.64	27.45	25.54	23.18	20.42	15.69	11.70	9.62
90.0	30.94	28.35	25.82	23.40	19.80	16.09	12.49	10.07	9.51
135.0	29.70	27.51	25.37	22.56	18.23	14.51	12.26	11.31	10.86
180.0	23.57	20.70	16.71	12.99	11.19	10.52	10.63	10.80	10.97
225.0	27.28	23.91	20.03	15.69	12.66	11.53	11.08	10.69	10.52
270.0	27.51	25.09	21.99	18.62	14.46	12.38	11.08	10.80	10.69
315.0	29.53	27.73	25.31	22.56	18.56	14.23	12.38	11.14	10.97
360.0	32.85	30.26	27.68	25.37	23.29	20.53	16.03	12.38	10.58
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.68	9.68	9.73	9.73	9.84	9.90	9.90	9.90	9.96
45.0	9.06	8.89	8.83	8.83	8.89	8.94	9.00	9.06	9.06
90.0	9.28	9.23	9.23	9.17	9.17	9.17	9.17	9.17	9.23
135.0	10.58	10.24	10.07	10.07	10.13	10.13	10.18	10.24	10.29
180.0	11.08	11.14	11.19	11.19	11.25	11.36	11.53	11.76	12.21
225.0	10.52	10.52	10.63	10.74	10.91	11.98	14.23	16.82	19.18
270.0	10.69	10.74	10.80	10.91	10.97	11.14	11.81	13.44	15.75
315.0	10.80	10.74	10.69	10.74	10.74	10.80	10.86	10.91	11.25
360.0	9.68	9.68	9.73	9.73	9.84	9.90	9.90	9.90	9.96
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.96	10.01	10.18	10.58	10.86	11.03	11.08	10.97	10.80
45.0	9.11	9.28	9.51	9.96	10.24	10.41	11.76	13.05	12.99
90.0	9.34	9.51	9.79	10.07	10.52	11.14	11.64	11.42	11.25
135.0	10.35	10.52	10.63	10.80	11.14	11.25	11.31	11.19	11.03
180.0	12.60	13.05	13.44	13.61	13.61	13.50	13.39	13.28	12.94
225.0	21.77	24.08	25.76	27.11	27.68	26.49	24.41	22.22	19.74
270.0	17.72	20.03	20.98	20.87	19.74	18.23	16.71	16.09	15.98
315.0	11.64	11.98	12.21	12.26	12.21	12.15	12.15	12.21	12.21
360.0	9.96	10.01	10.18	10.58	10.86	11.03	11.08	10.97	10.80
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.69	10.63	10.58	10.46	10.24	9.84	9.56	6.92	4.67
45.0	11.14	10.52	10.35	10.35	10.13	9.84	5.12	4.50	4.44
90.0	11.19	10.91	10.63	10.46	10.29	5.51	4.44	4.33	4.28
135.0	10.86	10.69	10.52	10.29	10.18	5.79	4.50	4.33	4.33
180.0	12.77	12.66	12.43	12.15	12.09	5.29	4.50	4.33	4.22
225.0	16.71	14.91	14.85	14.79	14.34	13.84	8.16	4.73	4.33
270.0	15.75	13.73	13.11	13.05	12.94	12.88	12.71	8.49	4.50
315.0	12.04	11.64	11.36	11.19	11.03	10.97	10.86	8.27	4.56
360.0	10.69	10.63	10.58	10.46	10.24	9.84	9.56	6.92	4.67

Intensity data(cd)

C/γ(°)	90.0
0.0	4.39
45.0	4.44
90.0	4.28
135.0	4.22
180.0	4.16
225.0	4.33
270.0	4.28
315.0	4.33
360.0	4.39