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Nata

LumCAT: 2-1120-A3
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No: GC2018091209
LampCAT: LUMINUS CXM-11-AC30
Lamp flux(lm): 2496.0
Number of Lamps: 1
Length(mm): 71
Phm Type: C

Voltage(V): 34.7000
Current(A): 0.5000
Power (W): 17.3500
PF: 0.0000
Ballast type: DC
Width(mm): 71
Height(mm): 0

Photometric Results

Lumens(lm): 2258.24
Efficiency(%): 90.47%
Lumens(lm)/Power(W): 130.16
Central intensity(cd): 19016.720
Maximum intensity(cd): 19016.720
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=13.2
 [C90/270]Total=13.2
Field angle(10%Imax): [C0/180]Total=26.3
 [C90/270]Total=26.3
Maximum s/h(1/2): C0_180=0.23 C90_270=0.23
Maximum s/h(1/4): C0_180=0.23 C90_270=0.23
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.65%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.435%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	19016.719	4.550	4.55	.182%	.201%
1.0	18809.297	35.998	40.548	1.442%	1.796%
2.0	18002.813	68.899	109.446	2.760%	4.847%
3.0	16784.297	96.329	205.775	3.859%	9.112%
4.0	15206.484	116.323	322.098	4.660%	14.263%
5.0	12536.438	119.818	441.916	4.800%	19.569%
6.0	10703.109	122.686	564.602	4.915%	25.002%
7.0	8753.063	116.979	681.581	4.687%	30.182%
8.0	6744.164	102.928	784.509	4.124%	34.740%
9.0	5047.594	86.590	871.099	3.469%	38.574%
10.0	3791.953	72.208	943.307	2.893%	41.772%
11.0	2950.875	61.745	1005.052	2.474%	44.506%
12.0	2457.773	56.037	1061.089	2.245%	46.987%
13.0	1937.531	47.796	1108.885	1.915%	49.104%
14.0	1655.719	43.925	1152.81	1.760%	51.049%
15.0	1485.000	42.148	1194.957	1.689%	52.915%
16.0	1364.273	41.237	1236.195	1.652%	54.741%
17.0	1276.664	40.932	1277.127	1.640%	56.554%
18.0	1219.641	41.330	1318.457	1.656%	58.384%
19.0	1182.586	42.221	1360.678	1.692%	60.254%
20.0	1142.283	42.843	1403.52	1.716%	62.151%
21.0	1117.174	43.904	1447.424	1.759%	64.095%
22.0	1091.791	44.850	1492.275	1.797%	66.081%
23.0	1060.629	45.446	1537.72	1.821%	68.094%
24.0	1027.371	45.824	1583.544	1.836%	70.123%
25.0	994.036	46.068	1629.613	1.846%	72.163%
26.0	959.217	46.112	1675.724	1.847%	74.205%
27.0	922.521	45.928	1721.652	1.840%	76.239%
28.0	891.239	45.883	1767.535	1.838%	78.270%
29.0	856.280	45.524	1813.059	1.824%	80.286%
30.0	825.898	45.284	1858.344	1.814%	82.292%
31.0	801.527	45.270	1903.613	1.814%	84.296%
32.0	778.634	45.247	1948.861	1.813%	86.300%
33.0	759.488	45.361	1994.222	1.817%	88.308%
34.0	718.341	44.050	2038.272	1.765%	90.259%
35.0	642.895	40.437	2078.709	1.620%	92.050%
36.0	546.244	35.209	2113.918	1.411%	93.609%
37.0	454.894	30.021	2143.939	1.203%	94.938%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	348.736	23.545	2167.484	.943%	95.981%
39.0	248.077	17.120	2184.604	.686%	96.739%
40.0	165.206	11.645	2196.249	.467%	97.255%
41.0	84.713	6.095	2202.344	.244%	97.525%
42.0	38.820	2.848	2205.192	.114%	97.651%
43.0	28.364	2.121	2207.313	.085%	97.745%
44.0	24.729	1.884	2209.197	.075%	97.828%
45.0	20.327	1.576	2210.773	.063%	97.898%
46.0	17.009	1.342	2212.115	.054%	97.957%
47.0	15.504	1.243	2213.359	.050%	98.012%
48.0	14.449	1.178	2214.536	.047%	98.064%
49.0	13.535	1.120	2215.656	.045%	98.114%
50.0	13.022	1.094	2216.75	.044%	98.163%
51.0	12.677	1.080	2217.831	.043%	98.210%
52.0	12.431	1.074	2218.905	.043%	98.258%
53.0	12.185	1.067	2219.972	.043%	98.305%
54.0	11.953	1.060	2221.032	.042%	98.352%
55.0	11.742	1.055	2222.087	.042%	98.399%
56.0	11.552	1.050	2223.137	.042%	98.445%
57.0	11.355	1.044	2224.182	.042%	98.492%
58.0	11.187	1.040	2225.222	.042%	98.538%
59.0	11.046	1.038	2226.26	.042%	98.584%
60.0	10.913	1.036	2227.297	.042%	98.630%
61.0	10.779	1.034	2228.331	.041%	98.675%
62.0	10.688	1.035	2229.365	.041%	98.721%
63.0	10.575	1.033	2230.399	.041%	98.767%
64.0	10.498	1.035	2231.433	.041%	98.813%
65.0	10.406	1.034	2232.468	.041%	98.859%
66.0	10.336	1.035	2233.503	.041%	98.904%
67.0	10.259	1.036	2234.539	.041%	98.950%
68.0	10.202	1.037	2235.576	.042%	98.996%
69.0	10.153	1.039	2236.615	.042%	99.042%
70.0	10.104	1.041	2237.657	.042%	99.088%
71.0	10.041	1.041	2238.698	.042%	99.134%
72.0	10.013	1.044	2239.742	.042%	99.181%
73.0	9.970	1.046	2240.787	.042%	99.227%
74.0	9.956	1.050	2241.837	.042%	99.273%
75.0	9.900	1.049	2242.886	.042%	99.320%

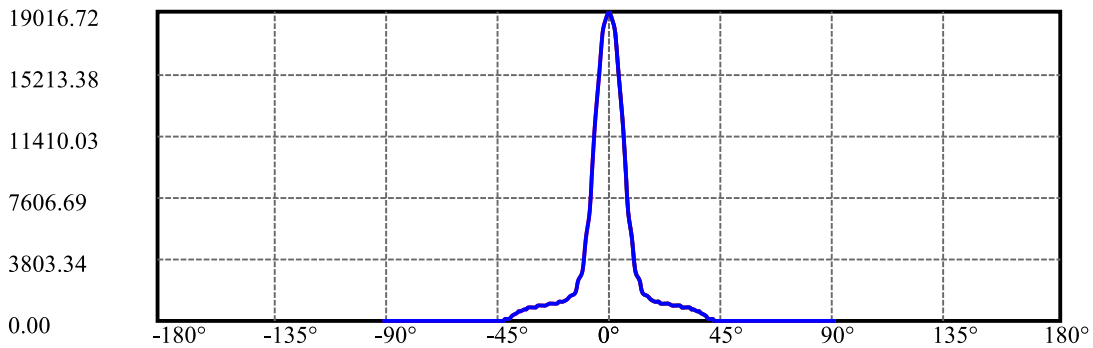
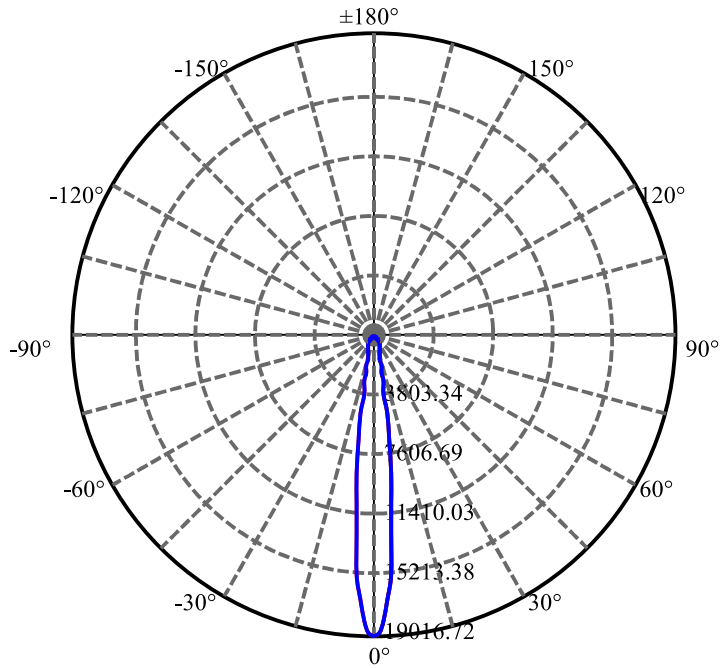
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.872	1.050	2243.936	.042%	99.366%
77.0	9.844	1.052	2244.988	.042%	99.413%
78.0	9.816	1.053	2246.041	.042%	99.460%
79.0	9.809	1.056	2247.097	.042%	99.506%
80.0	9.788	1.057	2248.154	.042%	99.553%
81.0	9.766	1.058	2249.211	.042%	99.600%
82.0	9.759	1.060	2250.271	.042%	99.647%
83.0	9.738	1.060	2251.331	.042%	99.694%
84.0	9.752	1.064	2252.395	.043%	99.741%
85.0	9.773	1.068	2253.462	.043%	99.788%
86.0	9.816	1.074	2254.536	.043%	99.836%
87.0	9.745	1.067	2255.603	.043%	99.883%
88.0	9.640	1.056	2256.66	.042%	99.930%
89.0	9.640	1.057	2257.717	.042%	99.977%
90.0	9.626	0.528	2258.245	.021%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1858.34	74.45%	82.29%
0-40	2196.25	87.99%	97.25%
0-60	2227.30	89.23%	98.63%
0-90	2257.72	90.45%	99.98%
0-120	2257.72	90.45%	99.98%
0-180	2258.24	90.47%	100.00%
60-90	31.46	1.26%	1.39%
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%
0-28.86	1806.60	72.38%	80.00%

ZONAL LUMEN SUMMARY

0-10	943.31
10-20	460.21
20-30	454.82
30-40	337.91
40-50	20.50
50-60	10.55
60-70	10.36
70-80	10.50
80-90	9.56
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



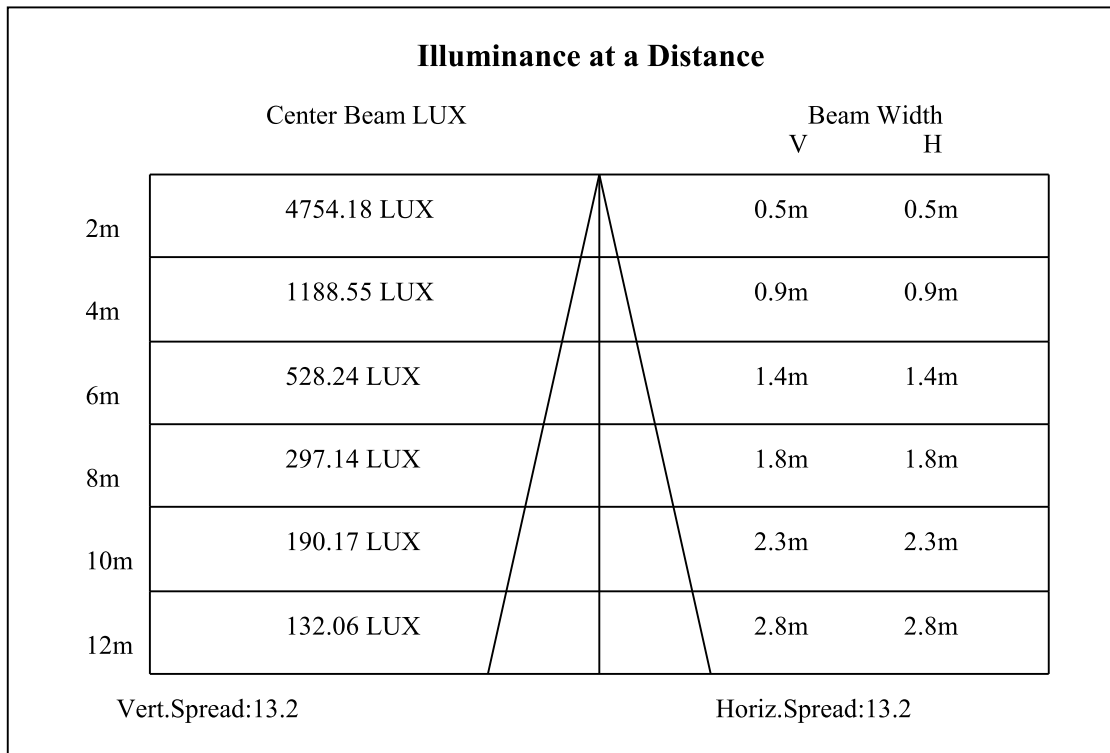
C0(Max): —————

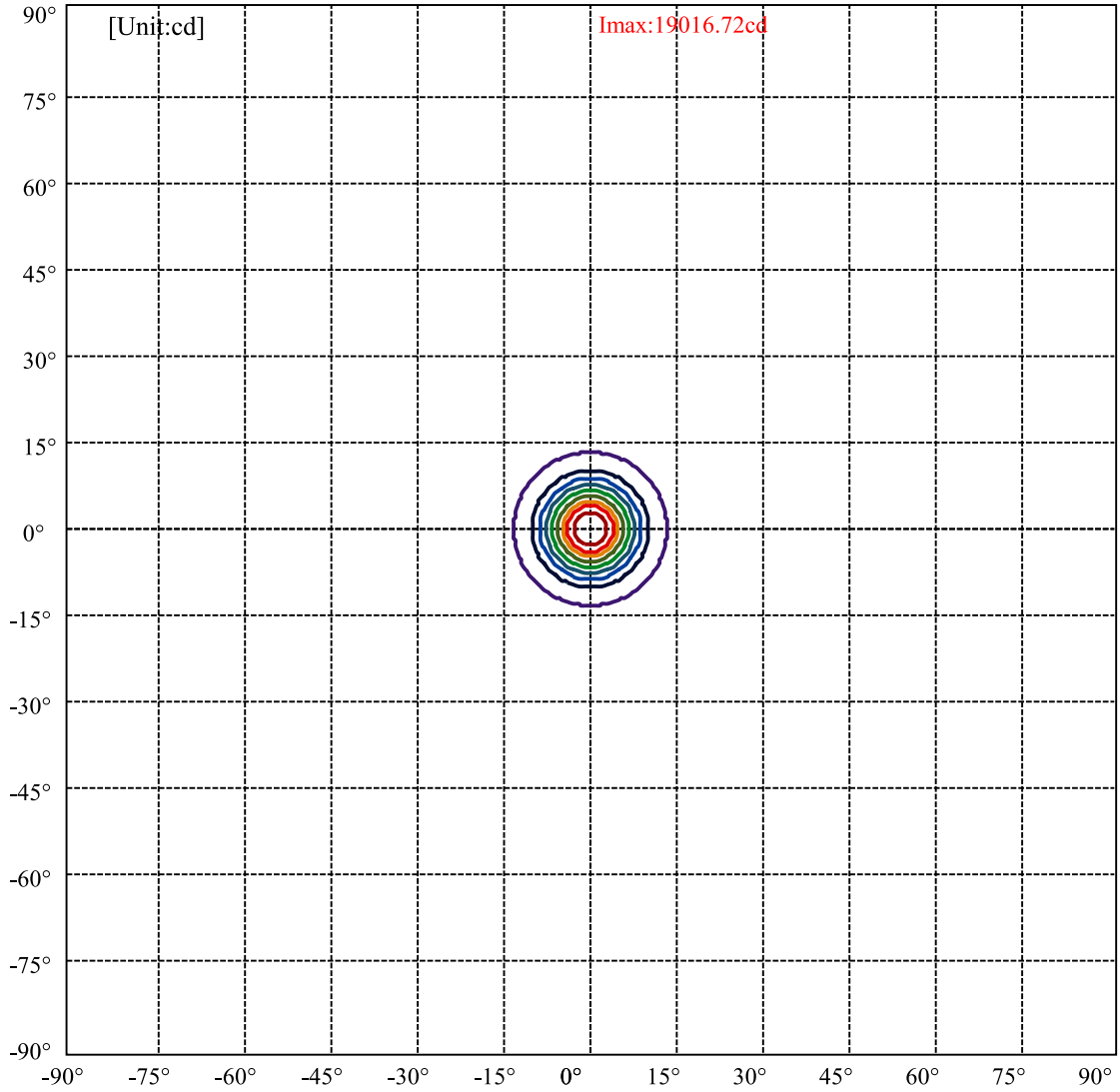
C0/C180: —————

C90/C270: —————

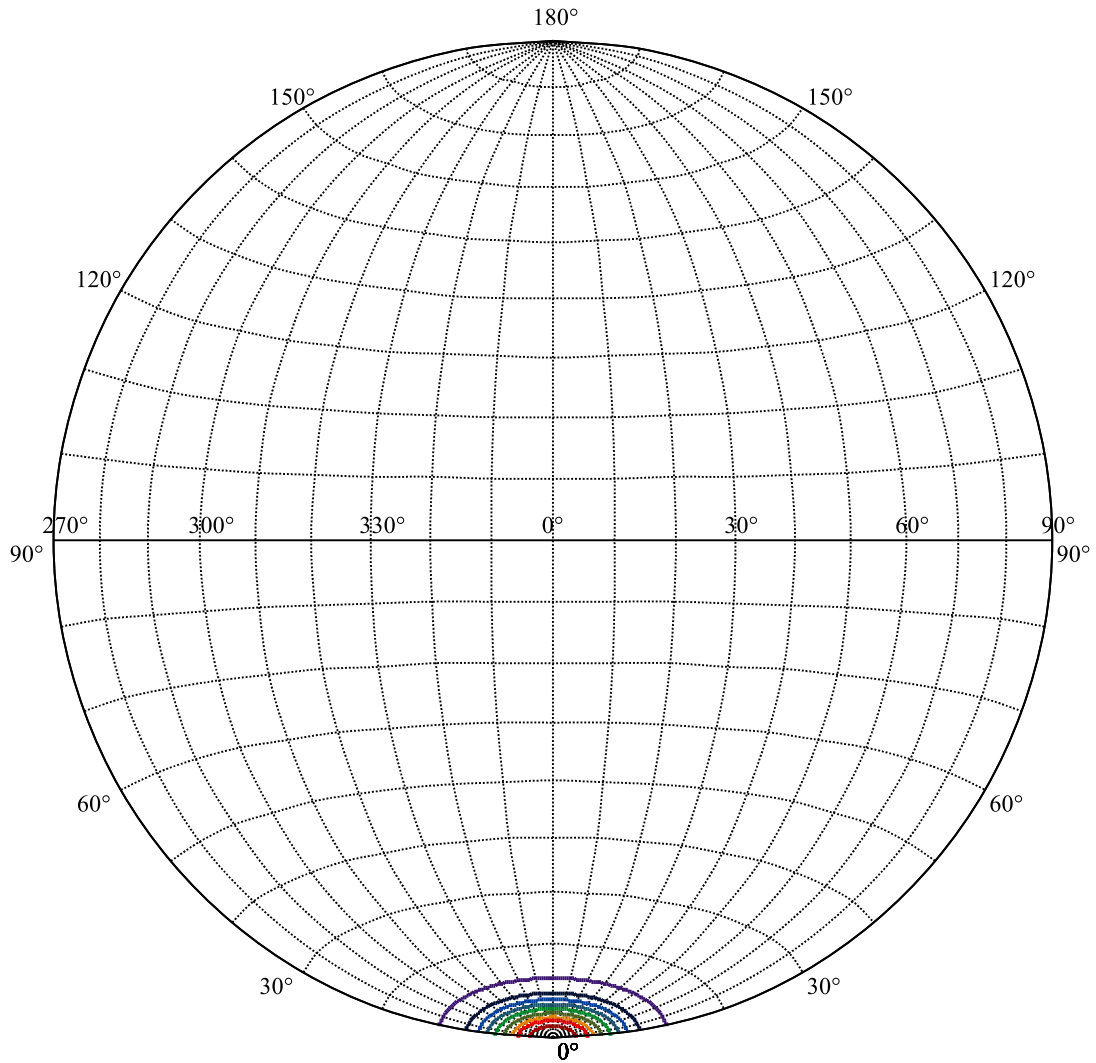
Field angle(10%Imax):C0/180Left:13.1 Right:13.1
:C90/270Left:13.1 Right:13.1

Beam Angle(50%Imax):C0/180Left:6.6 Right:6.6
:C90/270Left:6.6 Right:6.6





(10%Imax)	1901.67	—
(20%Imax)	3803.34	—
(30%Imax)	5705.02	—
(40%Imax)	7606.69	—
(50%Imax)	9508.36	—
(60%Imax)	11410	—
(70%Imax)	13311.7	—
(80%Imax)	15213.4	—
(90%Imax)	17115	—



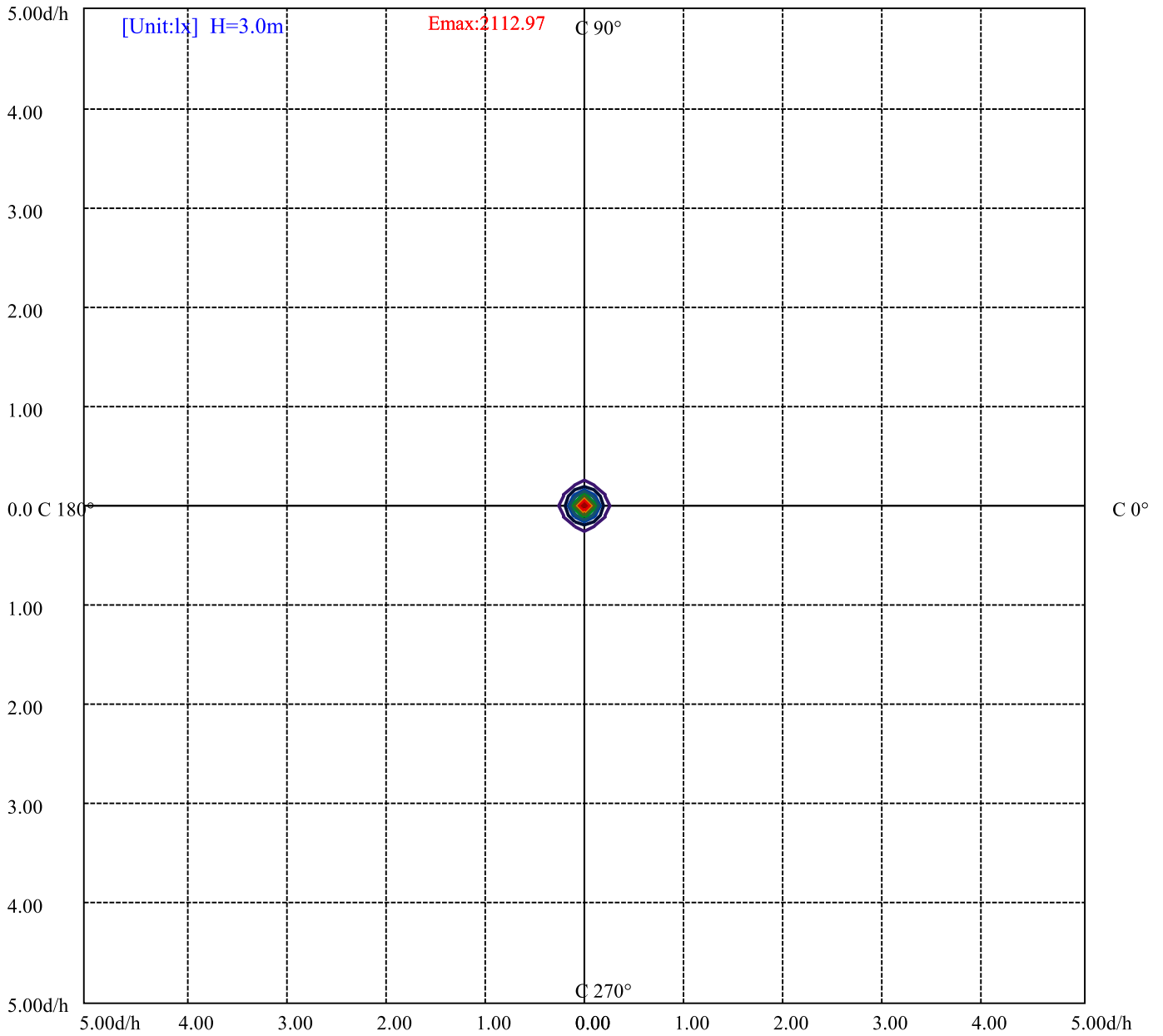
House

[Unit:cd]

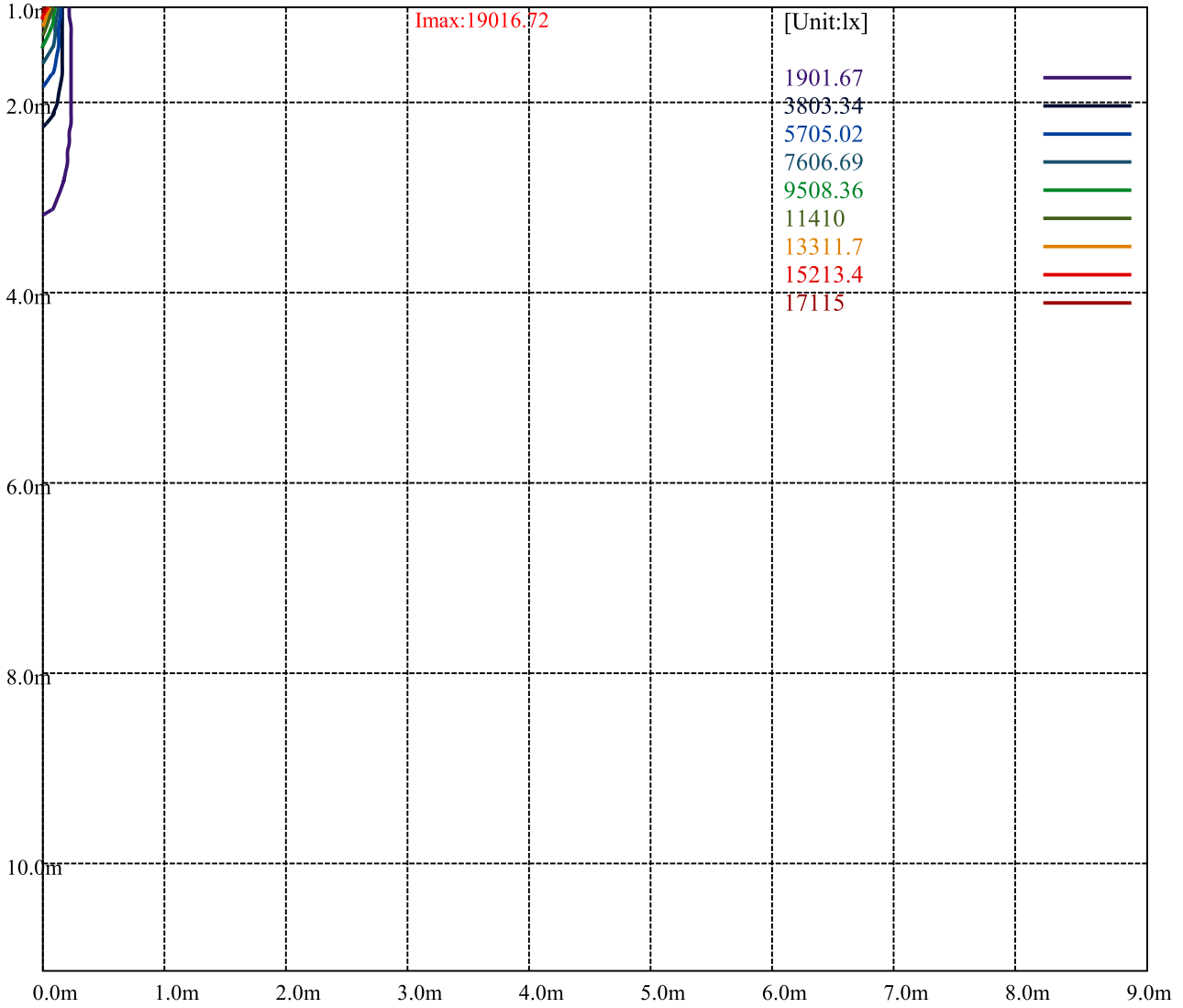
Road

Imax:19016.72

(10%Imax) 1901.67	—
(20%Imax) 3803.34	—
(30%Imax) 5705.02	—
(40%Imax) 7606.69	—
(50%Imax) 9508.36	—
(60%Imax) 11410	—
(70%Imax) 13311.7	—
(80%Imax) 15213.4	—
(90%Imax) 17115	—



- (10%Emax) 211.2967
- (20%Emax) 422.5934
- (30%Emax) 633.89
- (40%Emax) 845.1855
- (50%Emax) 1056.482
- (60%Emax) 1267.778
- (70%Emax) 1479.078
- (80%Emax) 1690.367
- (90%Emax) 1901.667



Luminance Table

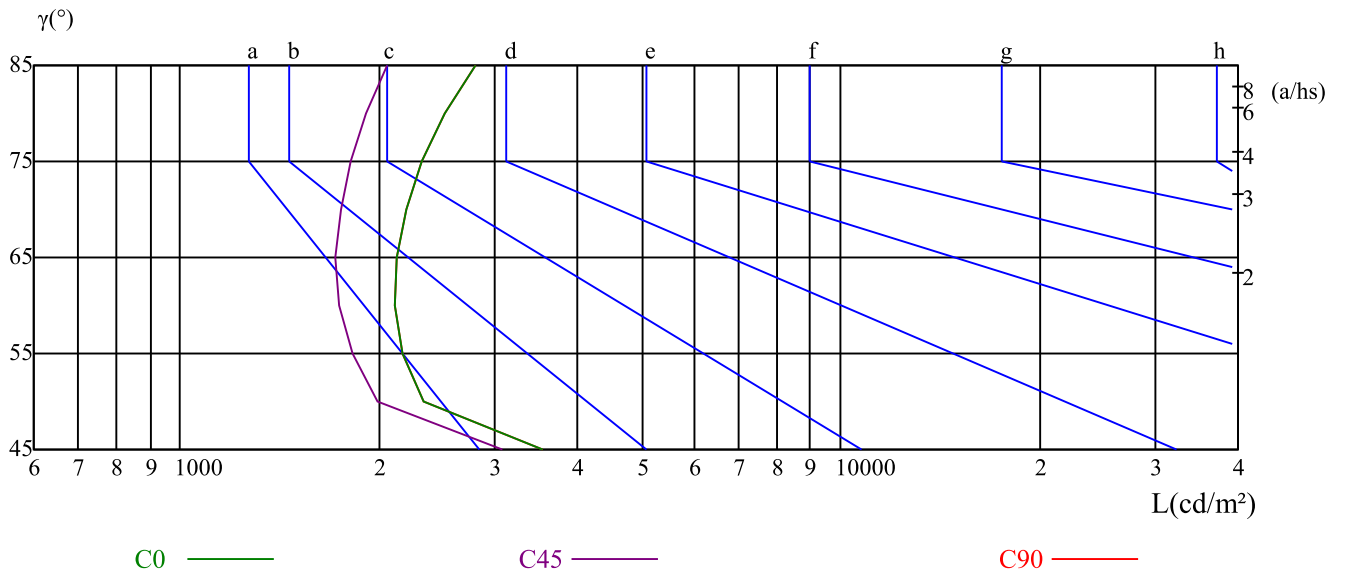
γ	45	50	55	60	65	70	75	80	85
C0	3552	2334	2178	2113	2125	2200	2327	2521	2808
C45	3072	1989	1827	1743	1722	1748	1808	1909	2062
C90	3552	2334	2178	2113	2125	2200	2327	2521	2808

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4885	4885	4885	7588	7588	7588	22245	22245	22245

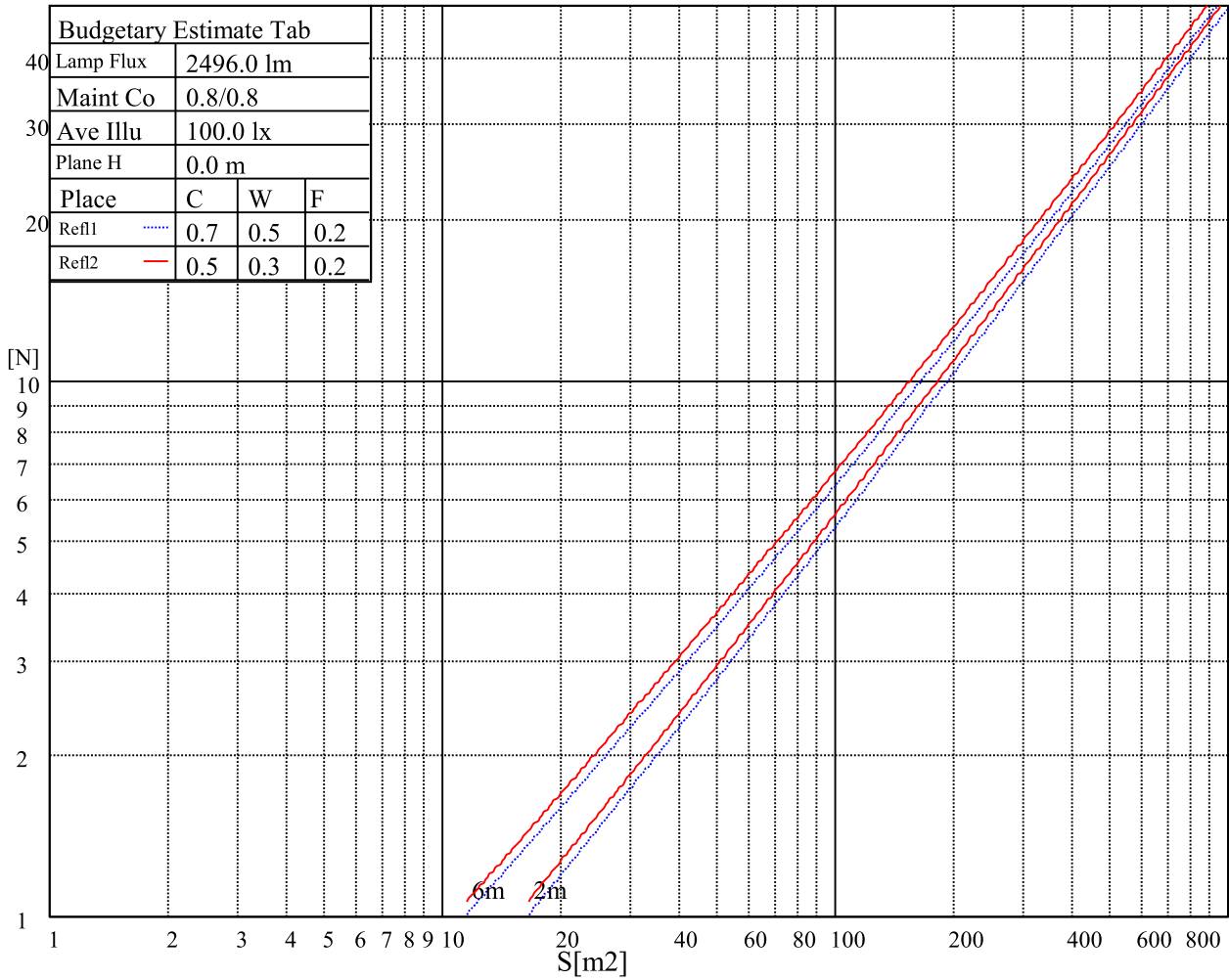
Glare Table

Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
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

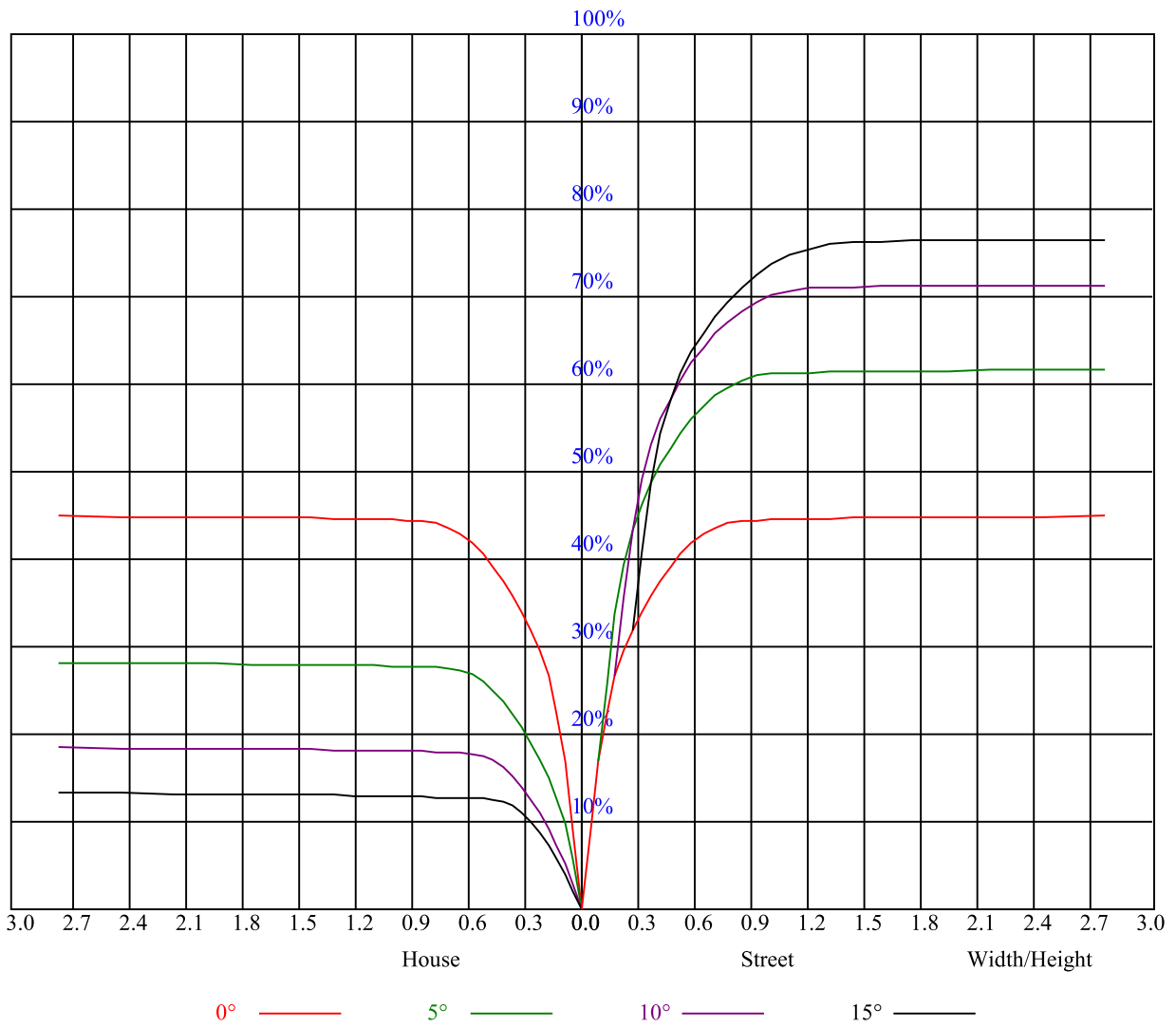
Luminance Limiting Curve



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	1.15	2.06	1.51	2.37	2.69	1.15	2.06	1.51	2.37	2.69
	3H	3.31	4.11	3.69	4.45	4.82	3.30	4.11	3.69	4.44	4.81
	4H	4.50	5.24	4.91	5.60	5.99	4.49	5.24	4.90	5.59	5.98
	6H	5.76	6.44	6.18	6.82	7.22	5.77	6.45	6.19	6.82	7.22
	8H	6.41	7.04	6.84	7.44	7.85	6.41	7.05	6.85	7.44	7.85
	12H	7.41	8.02	7.85	8.40	8.84	7.41	8.02	7.85	8.41	8.84
4H	2H	1.60	2.35	2.01	2.70	3.09	1.60	2.34	2.01	2.70	3.09
	3H	4.06	4.67	4.48	5.08	5.49	4.06	4.67	4.47	5.08	5.49
	4H	5.43	5.97	5.87	6.40	6.85	5.43	5.97	5.86	6.40	6.85
	6H	6.80	7.27	7.27	7.72	8.19	6.81	7.27	7.28	7.72	8.20
	8H	7.56	7.99	8.04	8.44	8.92	7.57	8.00	8.05	8.45	8.93
8H	12H	8.56	8.94	9.06	9.43	9.90	8.57	8.94	9.06	9.43	9.91
	4H	5.85	6.28	6.33	6.74	7.21	5.85	6.28	6.32	6.73	7.21
	6H	7.46	7.80	7.97	8.31	8.79	7.47	7.81	7.98	8.31	8.80
	8H	8.37	8.67	8.91	9.20	9.70	8.38	8.68	8.92	9.21	9.71
12H	12H	9.51	9.77	10.04	10.27	10.85	9.52	9.78	10.05	10.28	10.86
	4H	5.94	6.31	6.43	6.80	7.28	5.93	6.30	6.43	6.79	7.27
	6H	7.83	7.93	8.17	8.40	8.95	7.83	7.94	8.17	8.41	8.96
	8H	8.64	8.90	9.16	9.39	9.98	8.65	8.90	9.17	9.40	9.99
Variation with the observer position at spacings:											
S = 1.0H	5.4/-9.1					5.4/-9.1					
S = 1.5H	7.9/-7.3					7.9/-7.3					
S = 2.0H	9.7/-6.0					9.7/-6.0					
Standard tables:	BK1					BK1					
Uncorrected UGR	-1.4					-1.4					



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	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.93	0.93	0.93	0.91
1	1.01	0.99	0.98	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.86
2	0.96	0.93	0.90	0.94	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.86	0.87	0.85	0.84	0.82
3	0.91	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.82	0.84	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.83	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.80	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.74	0.72	0.70
7	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62



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	18883.13	18354.38	17015.63	15502.50	13668.75	11171.25	9180.00	7312.50	5355.00
45.0	19119.38	18995.63	18348.75	17319.38	15654.38	13573.13	11576.25	9303.75	7357.50
90.0	19147.50	18843.75	17859.38	16548.75	14844.38	11080.69	10306.13	8259.19	6368.63
135.0	18916.88	19023.75	18607.50	17752.50	16633.13	14242.50	12251.25	10170.00	7869.38
180.0	18883.13	19040.63	18725.63	17848.13	16599.38	14681.25	11064.94	10266.19	7932.94
225.0	19119.38	18804.38	18028.13	16430.63	14658.75	11081.25	10299.94	8011.69	6175.13
270.0	19147.50	19063.13	18337.50	17223.75	15710.63	13612.50	11334.38	9264.38	7132.50
315.0	18916.88	18348.75	17100.00	15648.75	13882.50	10848.94	9612.00	7436.81	5762.25
360.0	18883.13	18354.38	17015.63	15502.50	13668.75	11171.25	9180.00	7312.50	5355.00
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4173.75	3296.25	2880.00	2181.38	1839.94	1605.94	1460.81	1347.75	1269.00
45.0	5506.88	4106.25	3200.63	2857.50	2094.19	1770.75	1571.06	1417.50	1312.31
90.0	4643.44	3406.50	2674.13	2128.50	1774.69	1560.38	1407.94	1313.44	1237.50
135.0	5838.75	4415.63	3240.00	2851.88	2021.06	1694.81	1504.13	1360.13	1267.88
180.0	6078.38	4396.50	3222.00	2521.69	2055.94	1685.81	1500.75	1373.63	1278.56
225.0	4529.81	3345.75	2623.50	2082.94	1771.88	1546.88	1394.44	1302.19	1239.75
270.0	5310.00	4089.38	3121.88	2874.38	2080.69	1771.88	1577.25	1437.75	1318.50
315.0	4299.75	3279.38	2644.88	2163.94	1861.88	1609.31	1463.63	1361.81	1289.81
360.0	4173.75	3296.25	2880.00	2181.38	1839.94	1605.94	1460.81	1347.75	1269.00
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1223.44	1188.00	1149.19	1125.00	1095.19	1058.06	1023.75	988.88	948.94
45.0	1248.75	1208.81	1163.81	1138.50	1116.00	1080.00	1047.94	1019.25	976.50
90.0	1187.44	1157.06	1119.54	1097.55	1072.97	1044.45	1009.80	976.61	947.42
135.0	1210.50	1174.50	1137.94	1113.75	1089.00	1055.81	1028.81	998.44	964.13
180.0	1216.13	1176.19	1120.95	1111.50	1087.48	1062.00	1031.68	998.55	968.85
225.0	1188.56	1157.06	1119.21	1092.38	1067.57	1039.44	1008.28	972.11	941.96
270.0	1256.63	1211.06	1168.88	1141.88	1116.00	1085.63	1047.38	1015.31	977.63
315.0	1225.69	1188.00	1158.75	1116.84	1090.13	1059.64	1021.33	983.14	948.32
360.0	1223.44	1188.00	1149.19	1125.00	1095.19	1058.06	1023.75	988.88	948.94
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	908.44	876.94	842.63	815.06	790.88	770.63	749.81	689.06	601.88
45.0	941.06	911.81	871.31	839.25	811.69	783.56	768.38	744.19	673.31
90.0	910.46	880.82	848.03	814.16	796.95	774.39	748.29	699.08	614.53
135.0	929.25	898.88	867.38	839.81	811.13	788.06	772.88	740.81	672.19
180.0	932.91	900.68	871.71	836.04	812.25	786.71	768.15	745.03	686.53
225.0	906.81	879.36	841.16	813.09	790.59	770.57	750.43	687.38	607.39
270.0	943.88	905.63	869.06	839.25	809.44	786.38	771.19	746.44	667.69
315.0	907.37	875.81	838.97	810.51	789.30	768.77	746.78	694.74	619.65
360.0	908.44	876.94	842.63	815.06	790.88	770.63	749.81	689.06	601.88
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	511.88	416.25	294.75	237.32	119.81	60.81	32.12	28.52	24.41
45.0	587.81	502.88	384.19	284.63	230.01	105.53	45.23	29.36	25.65
90.0	503.89	421.76	326.36	200.87	130.67	66.09	29.93	25.99	22.95
135.0	587.25	493.31	377.44	284.06	224.10	108.84	42.86	28.24	25.37
180.0	589.16	496.69	403.09	285.41	195.58	116.66	52.65	28.52	25.59
225.0	495.62	401.79	305.21	204.02	115.99	57.66	31.39	26.72	22.89
270.0	585.00	492.19	380.81	284.06	180.90	98.10	43.26	30.77	26.55
315.0	509.34	414.28	318.04	204.24	124.59	64.01	33.13	28.80	24.41
360.0	511.88	416.25	294.75	237.32	119.81	60.81	32.12	28.52	24.41

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	18.84	16.20	15.41	13.89	13.22	12.88	12.54	12.26	12.04
45.0	21.49	17.66	15.36	14.57	13.50	12.99	12.60	12.43	12.15
90.0	19.01	15.98	15.19	14.23	13.39	12.94	12.60	12.43	12.15
135.0	21.26	17.89	15.92	15.02	13.89	13.28	12.88	12.60	12.38
180.0	21.99	18.34	15.81	14.91	14.06	13.28	12.88	12.60	12.43
225.0	18.79	16.09	15.13	14.12	13.28	12.88	12.60	12.32	12.09
270.0	22.11	17.55	15.86	14.91	13.73	13.11	12.83	12.54	12.21
315.0	19.13	16.37	15.36	13.95	13.22	12.83	12.49	12.26	12.04
360.0	18.84	16.20	15.41	13.89	13.22	12.88	12.54	12.26	12.04
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.81	11.59	11.42	11.19	11.08	10.91	10.80	10.69	10.58
45.0	11.93	11.76	11.53	11.36	11.19	11.03	10.91	10.80	10.69
90.0	11.93	11.70	11.53	11.31	11.19	11.03	10.97	10.80	10.69
135.0	12.09	11.98	11.76	11.53	11.36	11.25	11.08	10.97	10.86
180.0	12.15	11.93	11.76	11.53	11.31	11.19	11.03	10.86	10.80
225.0	11.87	11.59	11.42	11.25	11.03	10.91	10.80	10.63	10.58
270.0	12.04	11.81	11.59	11.42	11.25	11.08	10.91	10.80	10.69
315.0	11.81	11.59	11.42	11.25	11.08	10.97	10.80	10.69	10.63
360.0	11.81	11.59	11.42	11.19	11.08	10.91	10.80	10.69	10.58
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.46	10.41	10.29	10.24	10.18	10.18	10.07	10.07	10.01
45.0	10.58	10.46	10.41	10.35	10.24	10.24	10.18	10.13	10.01
90.0	10.58	10.52	10.41	10.35	10.29	10.18	10.18	10.13	10.07
135.0	10.74	10.63	10.58	10.41	10.35	10.29	10.24	10.18	10.13
180.0	10.63	10.58	10.46	10.41	10.29	10.24	10.18	10.13	10.07
225.0	10.46	10.41	10.35	10.24	10.18	10.13	10.07	10.01	9.96
270.0	10.63	10.52	10.41	10.41	10.29	10.24	10.18	10.13	10.07
315.0	10.52	10.46	10.35	10.29	10.24	10.13	10.13	10.07	10.01
360.0	10.46	10.41	10.29	10.24	10.18	10.18	10.07	10.07	10.01
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.01	9.96	9.96	9.90	9.90	9.84	9.84	9.84	9.84
45.0	10.01	9.96	9.96	9.90	9.84	9.84	9.79	9.79	9.79
90.0	10.01	9.96	9.96	9.90	9.84	9.84	9.79	9.79	9.79
135.0	10.07	10.07	10.01	9.96	9.90	9.90	9.84	9.84	9.79
180.0	10.01	10.01	9.96	9.90	9.90	9.84	9.79	9.84	9.79
225.0	9.96	9.90	9.90	9.84	9.79	9.79	9.79	9.73	9.73
270.0	10.01	9.96	9.96	9.90	9.90	9.84	9.84	9.84	9.79
315.0	10.01	9.96	9.96	9.90	9.90	9.84	9.84	9.79	9.79
360.0	10.01	9.96	9.96	9.90	9.90	9.84	9.84	9.84	9.84
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.79	9.79	9.79	9.90	9.90	9.90	9.68	9.68	9.68
45.0	9.79	9.73	9.73	9.73	9.79	9.90	9.90	9.62	9.62
90.0	9.73	9.73	9.73	9.73	9.79	9.90	10.07	9.62	9.62
135.0	9.79	9.79	9.73	9.73	9.73	9.73	9.73	9.68	9.68
180.0	9.79	9.79	9.73	9.73	9.68	9.73	9.68	9.68	9.68
225.0	9.68	9.68	9.68	9.68	9.68	9.73	9.56	9.62	9.62
270.0	9.79	9.79	9.73	9.73	9.84	9.84	9.68	9.62	9.62
315.0	9.79	9.79	9.79	9.79	9.79	9.79	9.68	9.62	9.62
360.0	9.79	9.79	9.79	9.90	9.90	9.90	9.68	9.68	9.68

Intensity data(cd)

C/ γ ($^{\circ}$)	90.0
0.0	9.68
45.0	9.62
90.0	9.62
135.0	9.62
180.0	9.62
225.0	9.62
270.0	9.62
315.0	9.62
360.0	9.68