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NATA

LumCAT: 2-1120-A3
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No: GC2019011503
LampCAT: LUMINUS CLM-14-AC30
Lamp flux(lm): 3532.9
Number of Lamps: 1
Length(mm): 71
Phm Type: C

Voltage(V): 35.1000
Current(A): 0.7000
Power (W): 24.5700
PF: 0.0000
Ballast type: DC
Width(mm): 71
Height(mm): 0

Photometric Results

Lumens(lm): 3257.90
Efficiency(%): 92.21%
Lumens(lm)/Power(W): 132.79
Central intensity(cd): 20576.250
Maximum intensity(cd): 20576.250
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=16.4
 [C90/270]Total=16.4
Field angle(10%Imax): [C0/180]Total=33.9
 [C90/270]Total=33.9
Maximum s/h(1/2): C0_180=0.28 C90_270=0.28
Maximum s/h(1/4): C0_180=0.28 C90_270=0.28
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.35%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.626%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	20576.250	4.923	4.923	.139%	.151%
1.0	20446.172	39.131	44.054	1.108%	1.352%
2.0	20020.078	76.619	120.673	2.169%	3.704%
3.0	19179.141	110.073	230.746	3.116%	7.083%
4.0	18059.766	138.149	368.895	3.910%	11.323%
5.0	16368.047	156.439	525.334	4.428%	16.125%
6.0	14468.695	165.850	691.184	4.694%	21.216%
7.0	12571.734	168.012	859.196	4.756%	26.373%
8.0	10695.305	163.230	1022.426	4.620%	31.383%
9.0	8617.359	147.829	1170.255	4.184%	35.921%
10.0	6927.258	131.912	1302.167	3.734%	39.970%
11.0	5627.180	117.745	1419.911	3.333%	43.584%
12.0	4537.055	103.444	1523.355	2.928%	46.759%
13.0	3674.320	90.639	1613.994	2.566%	49.541%
14.0	3067.102	81.368	1695.363	2.303%	52.039%
15.0	2642.766	75.008	1770.371	2.123%	54.341%
16.0	2316.516	70.020	1840.391	1.982%	56.490%
17.0	2041.242	65.446	1905.837	1.852%	58.499%
18.0	1832.344	62.093	1967.93	1.758%	60.405%
19.0	1699.031	60.659	2028.589	1.717%	62.267%
20.0	1582.313	59.347	2087.935	1.680%	64.088%
21.0	1500.117	58.953	2146.888	1.669%	65.898%
22.0	1442.883	59.273	2206.161	1.678%	67.717%
23.0	1392.258	59.655	2265.817	1.689%	69.548%
24.0	1347.891	60.120	2325.937	1.702%	71.394%
25.0	1313.438	60.871	2386.808	1.723%	73.262%
26.0	1279.688	61.517	2448.325	1.741%	75.150%
27.0	1245.727	62.018	2510.343	1.755%	77.054%
28.0	1214.648	62.533	2572.877	1.770%	78.974%
29.0	1183.148	62.902	2635.778	1.780%	80.904%
30.0	1157.709	63.478	2699.256	1.797%	82.853%
31.0	1126.378	63.617	2762.873	1.801%	84.805%
32.0	1080.098	62.766	2825.639	1.777%	86.732%
33.0	1025.698	61.260	2886.9	1.734%	88.612%
34.0	949.711	58.238	2945.138	1.648%	90.400%
35.0	846.626	53.252	2998.39	1.507%	92.035%
36.0	738.105	47.576	3045.966	1.347%	93.495%
37.0	624.783	41.233	3087.199	1.167%	94.760%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	500.175	33.769	3120.967	.956%	95.797%
39.0	385.439	26.600	3147.567	.753%	96.613%
40.0	271.807	19.159	3166.726	.542%	97.202%
41.0	192.888	13.877	3180.604	.393%	97.628%
42.0	112.163	8.230	3188.834	.233%	97.880%
43.0	61.657	4.611	3193.445	.131%	98.022%
44.0	36.063	2.747	3196.192	.078%	98.106%
45.0	26.684	2.069	3198.261	.059%	98.170%
46.0	22.029	1.738	3199.999	.049%	98.223%
47.0	18.218	1.461	3201.46	.041%	98.268%
48.0	16.355	1.333	3202.793	.038%	98.309%
49.0	15.532	1.285	3204.078	.036%	98.348%
50.0	14.920	1.253	3205.332	.035%	98.387%
51.0	14.562	1.241	3206.573	.035%	98.425%
52.0	14.344	1.240	3207.812	.035%	98.463%
53.0	14.175	1.241	3209.054	.035%	98.501%
54.0	14.027	1.244	3210.298	.035%	98.539%
55.0	13.894	1.248	3211.546	.035%	98.577%
56.0	13.774	1.252	3212.799	.035%	98.616%
57.0	13.676	1.258	3214.056	.036%	98.654%
58.0	13.577	1.263	3215.319	.036%	98.693%
59.0	13.486	1.268	3216.587	.036%	98.732%
60.0	13.423	1.275	3217.861	.036%	98.771%
61.0	13.359	1.281	3219.143	.036%	98.810%
62.0	13.296	1.287	3220.43	.036%	98.850%
63.0	13.247	1.294	3221.724	.037%	98.890%
64.0	13.205	1.301	3223.026	.037%	98.930%
65.0	13.163	1.308	3224.334	.037%	98.970%
66.0	13.134	1.316	3225.65	.037%	99.010%
67.0	13.085	1.321	3226.971	.037%	99.051%
68.0	13.064	1.328	3228.299	.038%	99.092%
69.0	13.022	1.333	3229.632	.038%	99.132%
70.0	13.001	1.340	3230.972	.038%	99.174%
71.0	12.973	1.345	3232.317	.038%	99.215%
72.0	12.959	1.351	3233.668	.038%	99.256%
73.0	12.930	1.356	3235.024	.038%	99.298%
74.0	12.930	1.363	3236.387	.039%	99.340%
75.0	12.909	1.367	3237.755	.039%	99.382%

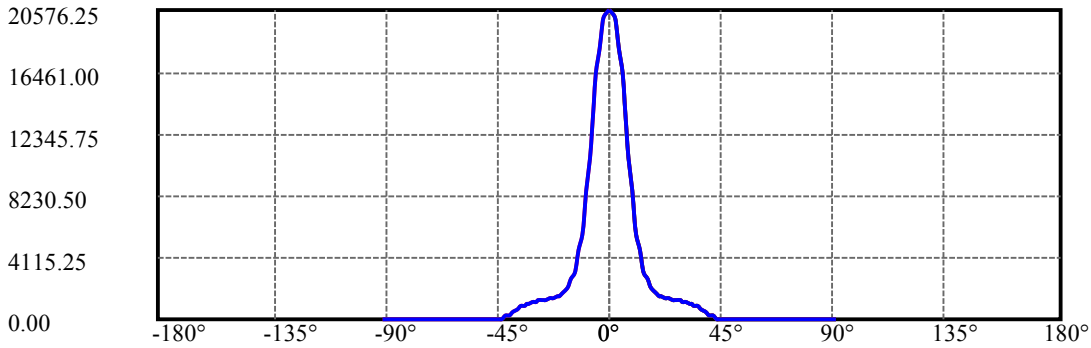
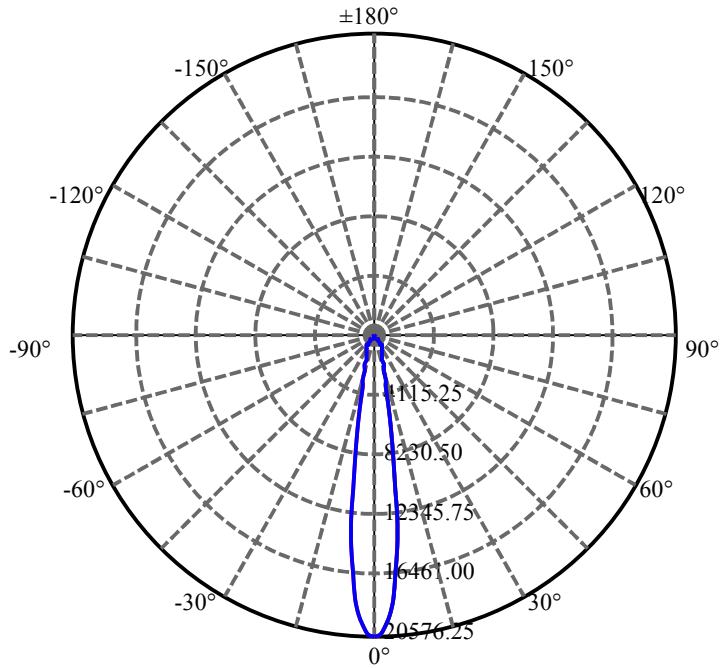
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.888	1.371	3239.126	.039%	99.424%
77.0	12.874	1.376	3240.502	.039%	99.466%
78.0	12.874	1.381	3241.883	.039%	99.508%
79.0	12.839	1.382	3243.265	.039%	99.551%
80.0	12.825	1.385	3244.65	.039%	99.593%
81.0	12.825	1.389	3246.039	.039%	99.636%
82.0	12.818	1.392	3247.431	.039%	99.679%
83.0	12.818	1.395	3248.826	.039%	99.722%
84.0	12.825	1.399	3250.225	.040%	99.765%
85.0	12.818	1.400	3251.625	.040%	99.807%
86.0	12.748	1.395	3253.02	.039%	99.850%
87.0	12.741	1.395	3254.415	.039%	99.893%
88.0	12.713	1.393	3255.808	.039%	99.936%
89.0	12.698	1.392	3257.2	.039%	99.979%
90.0	12.698	0.696	3257.897	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2699.26	76.40%	82.85%
0-40	3166.73	89.63%	97.20%
0-60	3217.86	91.08%	98.77%
0-90	3257.20	92.20%	99.98%
0-120	3257.20	92.20%	99.98%
0-180	3257.90	92.21%	100.00%
60-90	40.61	1.15%	1.25%
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%
0-28.53	2606.32	73.77%	80.00%

ZONAL LUMEN SUMMARY

0-10	1302.17
10-20	785.77
20-30	611.32
30-40	467.47
40-50	38.61
50-60	12.53
60-70	13.11
70-80	13.68
80-90	12.55
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



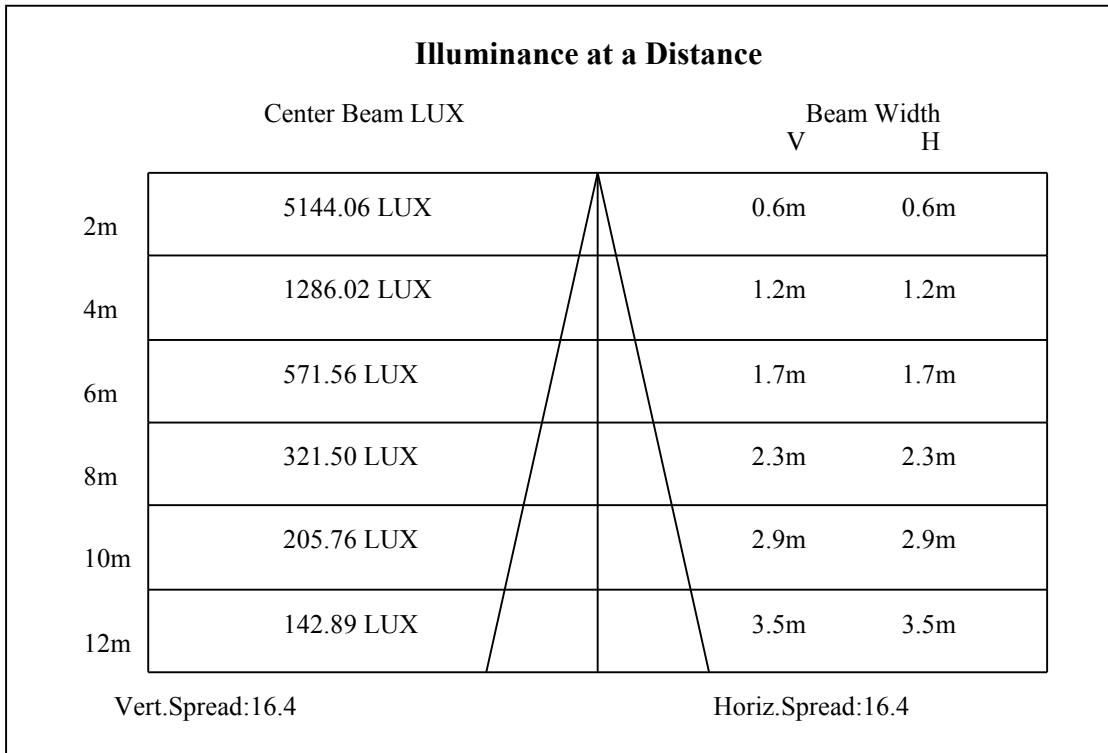
C0(Max): —————

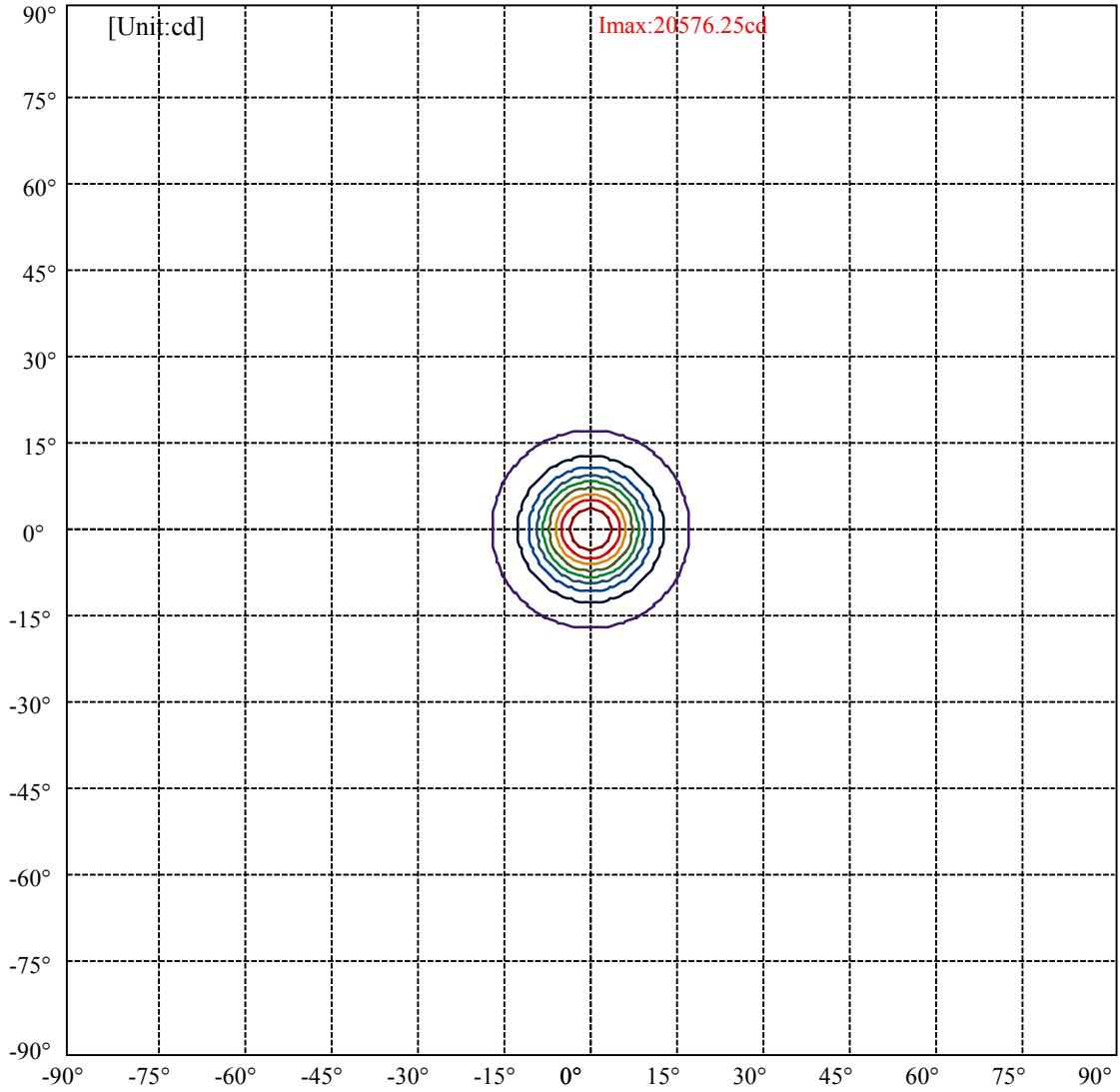
C0/C180: —————

C90/C270: —————

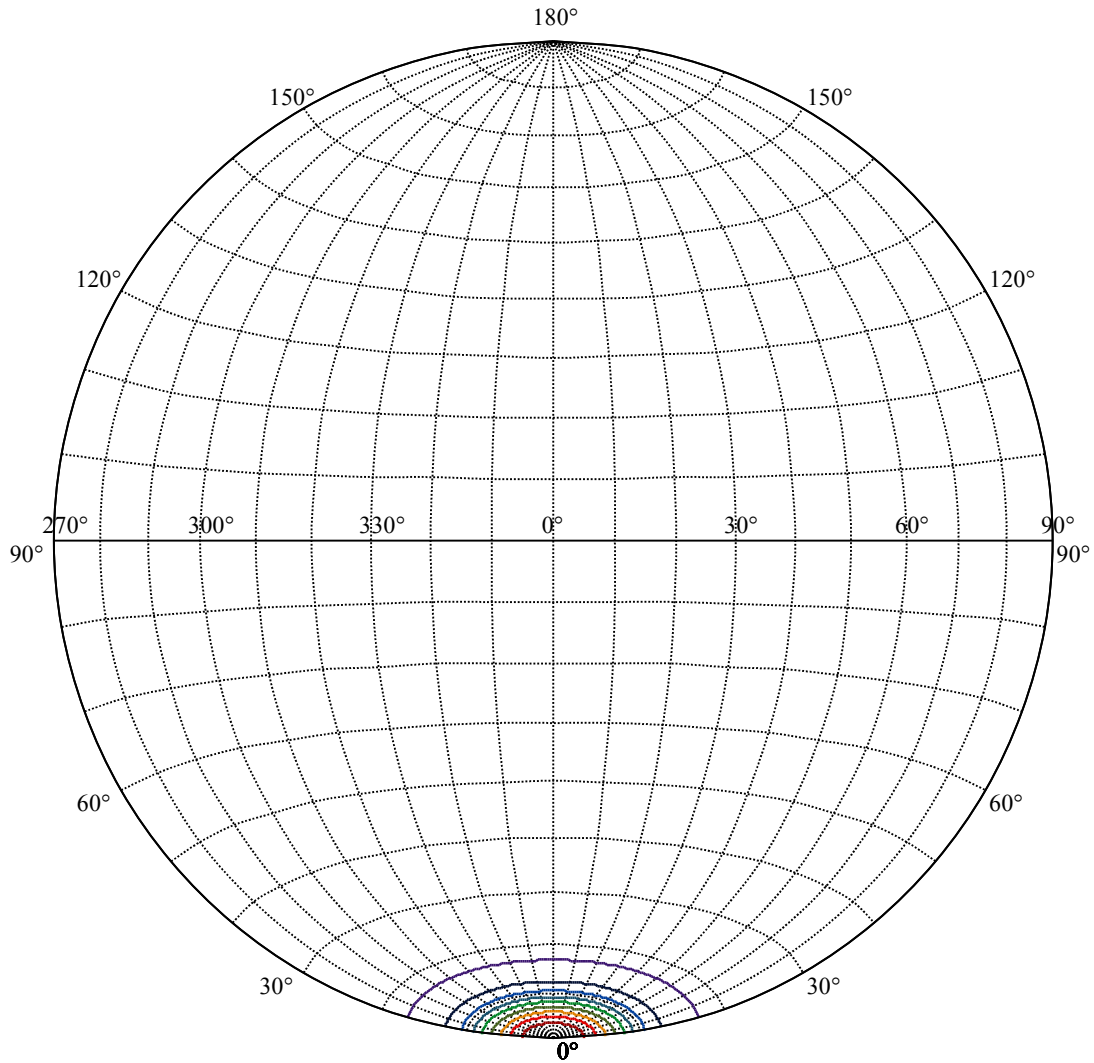
Field angle(10%Imax):C0/180Left:16.9 Right:16.9
:C90/270Left:16.9 Right:16.9

Beam Angle(50%Imax):C0/180Left:8.2 Right:8.2
:C90/270Left:8.2 Right:8.2





(10%Imax) 2057.63	—
(20%Imax) 4115.25	—
(30%Imax) 6172.88	—
(40%Imax) 8230.5	—
(50%Imax) 10288.1	—
(60%Imax) 12345.8	—
(70%Imax) 14403.4	—
(80%Imax) 16461	—
(90%Imax) 18518.6	—



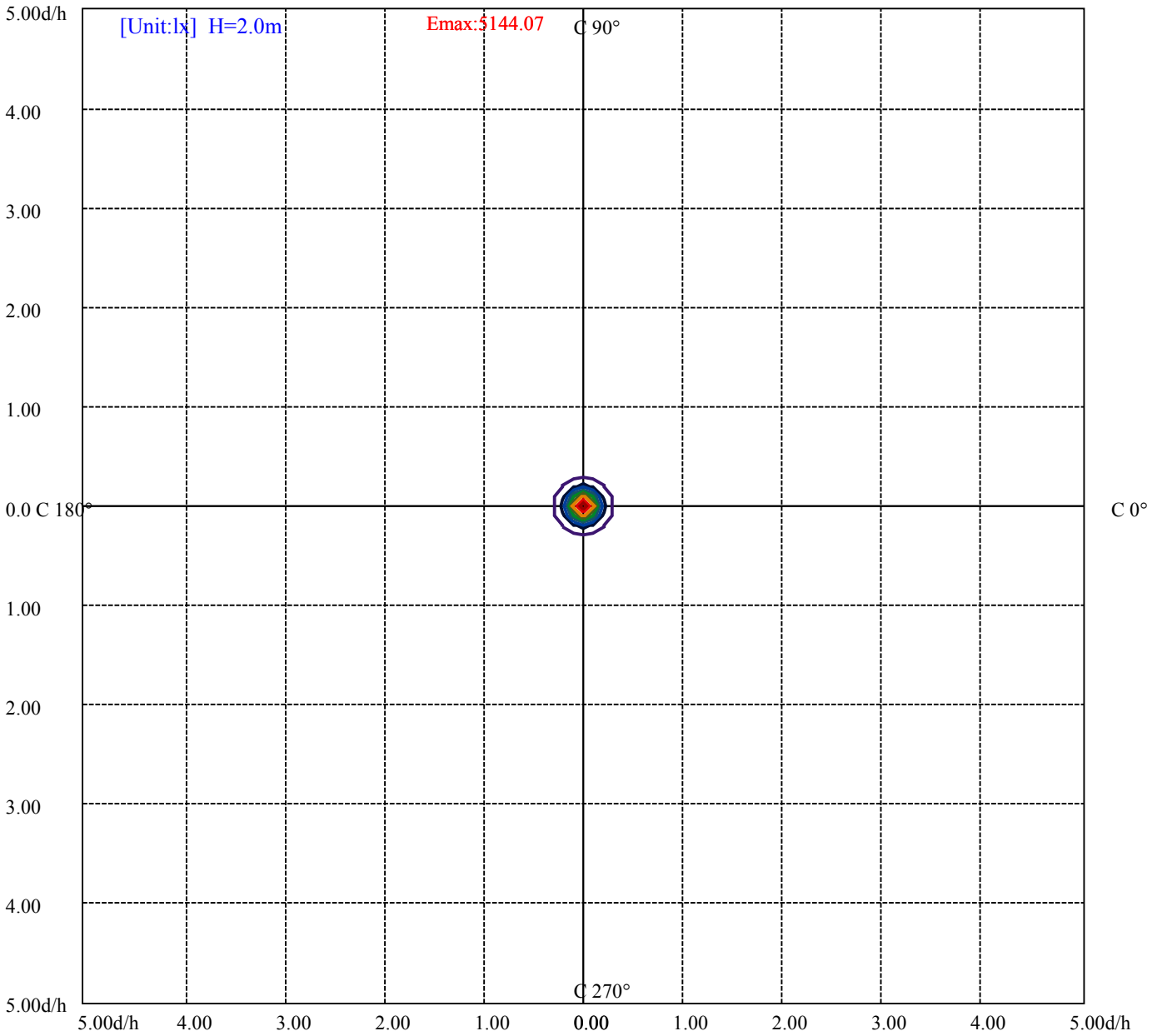
House

[Unit:cd]

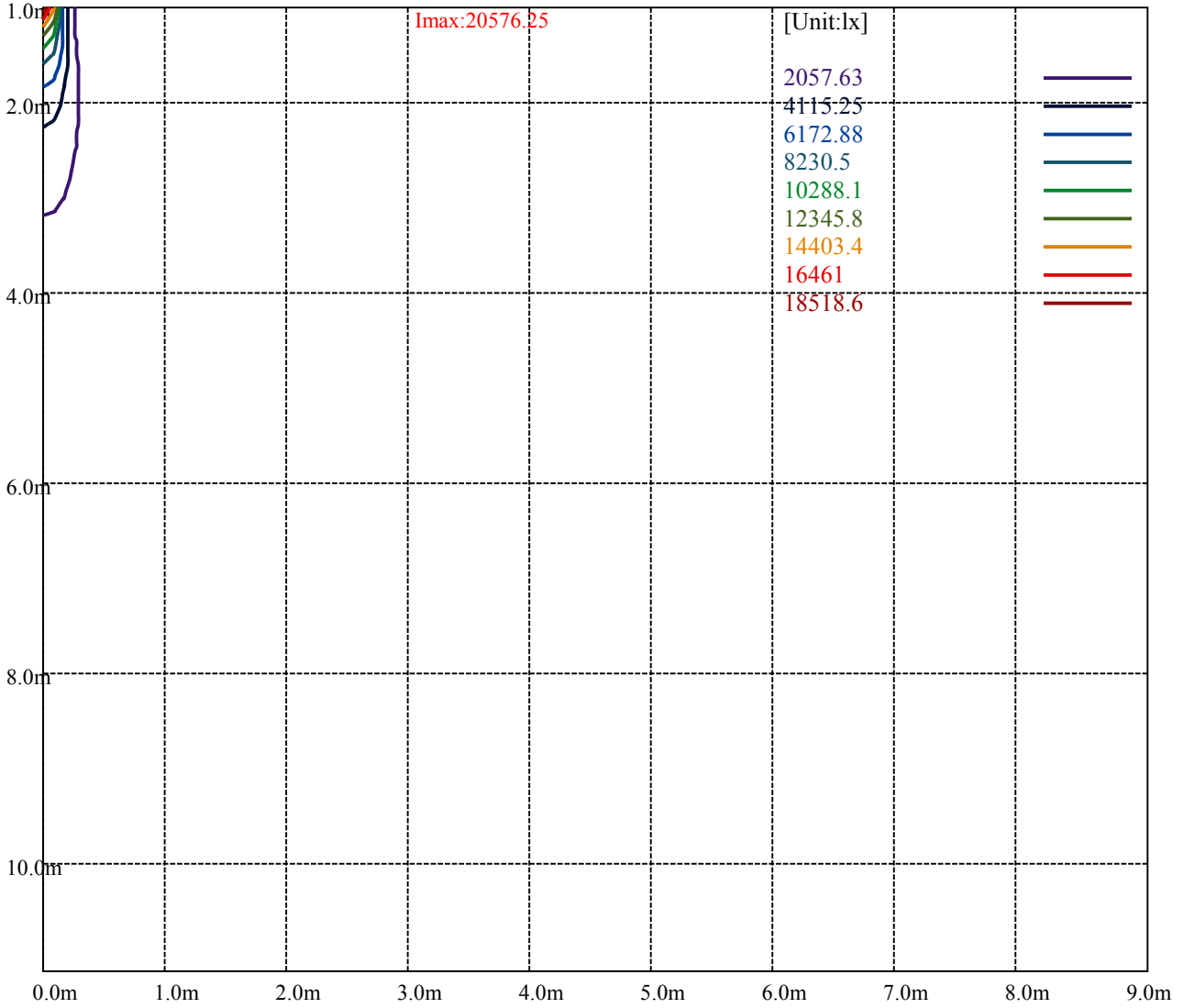
Road

Imax:20576.25

(10%Imax) 2057.63	—
(20%Imax) 4115.25	—
(30%Imax) 6172.88	—
(40%Imax) 8230.5	—
(50%Imax) 10288.1	—
(60%Imax) 12345.8	—
(70%Imax) 14403.4	—
(80%Imax) 16461	—
(90%Imax) 18518.6	—



(10%Emax) 514.405	—
(20%Emax) 1028.813	—
(30%Emax) 1543.218	—
(40%Emax) 2057.623	—
(50%Emax) 2572.025	—
(60%Emax) 3086.425	—
(70%Emax) 3600.85	—
(80%Emax) 4115.25	—
(90%Emax) 4629.65	—



Luminance Table

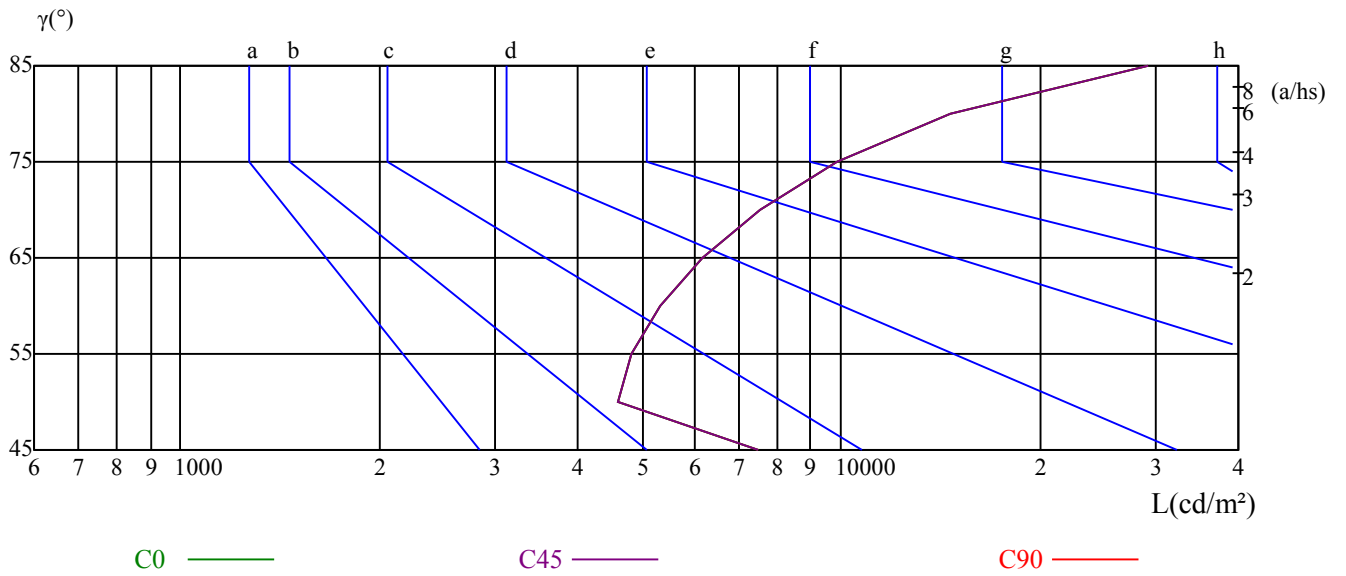
γ	45	50	55	60	65	70	75	80	85
C0	7486	4605	4805	5325	6178	7541	9894	14651	29175
C45	7486	4605	4805	5325	6178	7541	9894	14651	29175
C90	7486	4605	4805	5325	6178	7541	9894	14651	29175

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6178	6178	6178	9894	9894	9894	29175	29175	29175

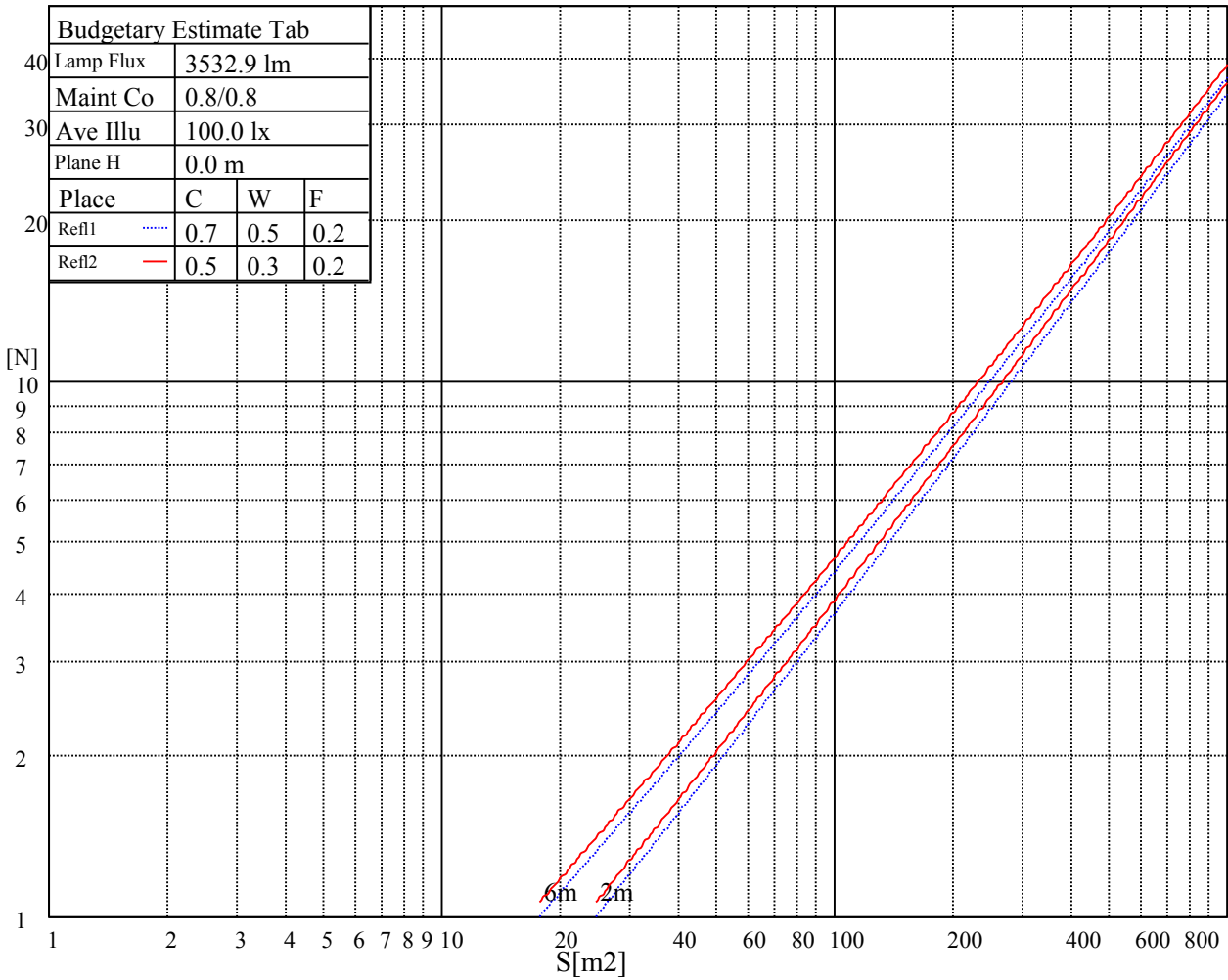
Glare Table

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

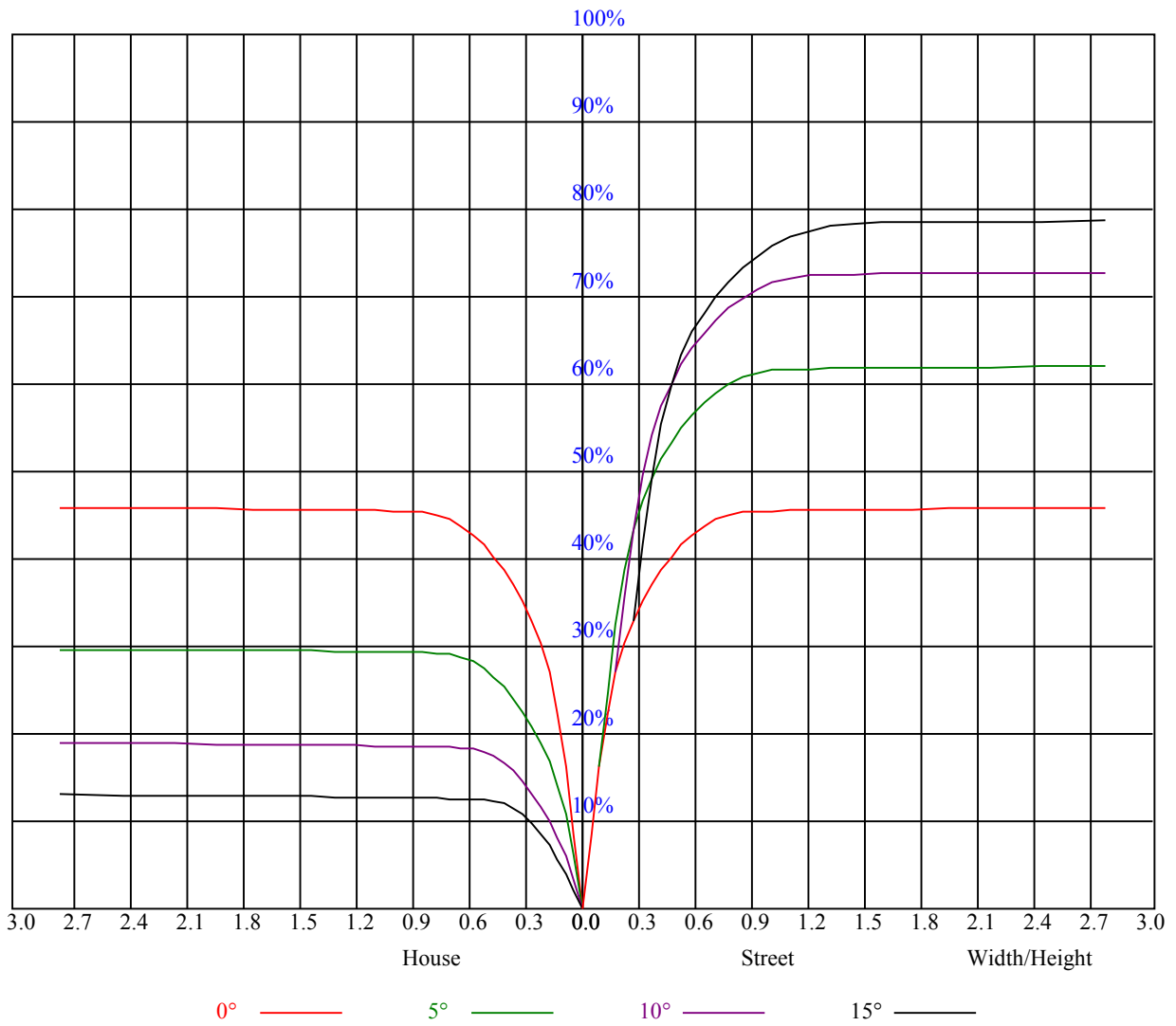
Luminance Limiting Curve



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	1.86	2.77	2.23	3.09	3.40	1.89	2.80	2.25	3.11	3.42
	3H	5.18	5.98	5.56	6.31	6.68	5.21	6.01	5.59	6.34	6.71
	4H	6.98	7.72	7.39	8.08	8.47	7.02	7.76	7.43	8.11	8.51
	6H	8.98	9.66	9.40	10.04	10.43	9.04	9.71	9.45	10.09	10.49
	8H	10.09	10.72	10.53	11.12	11.53	10.15	10.79	10.59	11.18	11.59
	12H	11.88	12.49	12.32	12.87	13.30	11.97	12.57	12.40	12.96	13.39
4H	2H	2.81	3.55	3.21	3.90	4.29	2.82	3.56	3.23	3.92	4.31
	3H	6.35	6.96	6.77	7.37	7.78	6.38	6.98	6.79	7.39	7.80
	4H	8.32	8.86	8.76	9.29	9.74	8.35	8.90	8.79	9.32	9.77
	6H	10.48	10.94	10.95	11.39	11.87	10.52	10.99	11.00	11.44	11.92
	8H	11.68	12.11	12.15	12.56	13.04	11.74	12.17	12.21	12.62	13.10
	12H	13.36	13.73	13.85	14.22	14.70	13.44	13.81	13.93	14.30	14.78
8H	4H	9.06	9.49	9.54	9.94	10.42	9.09	9.52	9.57	9.97	10.45
	6H	11.49	11.83	12.00	12.33	12.82	11.52	11.86	12.03	12.36	12.85
	8H	12.87	13.17	13.41	13.70	14.19	12.92	13.22	13.45	13.74	14.24
	12H	14.68	14.94	15.21	15.44	16.02	14.75	15.01	15.27	15.51	16.09
12H	4H	9.27	9.64	9.76	10.13	10.61	9.30	9.67	9.79	10.16	10.64
	6H	12.00	12.11	12.35	12.58	13.13	12.03	12.14	12.38	12.61	13.16
	8H	13.33	13.58	13.85	14.08	14.66	13.37	13.62	13.89	14.12	14.71
Variation with the observer position at spacings:											
S = 1.0H	5.3/-8.6					5.3/-8.6					
S = 1.5H	7.6/-6.5					7.6/-6.5					
S = 2.0H	9.0/-4.9					9.0/-4.9					
Standard tables:	BK2					BK2					
Uncorrected UGR	2.8					2.8					



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	1.10	1.10	1.10	1.07	1.07	1.07	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	1.00	1.01	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.88
2	0.98	0.95	0.92	0.96	0.94	0.91	0.93	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.86	0.84
3	0.93	0.89	0.87	0.92	0.89	0.86	0.90	0.87	0.84	0.87	0.85	0.83	0.85	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.80	0.83	0.81	0.79	0.77
5	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.75
6	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.69
8	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
9	0.74	0.70	0.67	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
10	0.72	0.67	0.65	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63



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	20379.38	20790.00	20930.63	20851.88	20491.88	19828.13	18596.25	16886.25	15052.50
45.0	20694.38	20756.25	20553.75	20075.63	19130.63	17870.63	16031.25	13809.38	11745.00
90.0	20576.25	20221.88	19558.13	18208.13	16745.63	14951.25	11102.63	10332.56	8380.13
135.0	20655.00	20131.88	19170.00	17926.88	16155.00	14028.75	11975.63	9675.00	7818.75
180.0	20379.38	19687.50	18624.38	16830.00	15041.25	11210.63	10433.81	8461.13	6770.81
225.0	20694.38	20430.00	19890.00	18753.75	17426.25	15761.25	13370.63	11096.44	9363.38
270.0	20576.25	20694.38	20576.25	20216.25	19445.63	18157.50	16621.88	14585.63	12622.50
315.0	20655.00	20857.50	20857.50	20570.63	20041.88	19136.25	17617.50	15727.50	13809.38
360.0	20379.38	20790.00	20930.63	20851.88	20491.88	19828.13	18596.25	16886.25	15052.50
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	12808.13	10507.50	8550.00	6840.00	5197.50	4252.50	3538.13	2936.25	2657.25
45.0	9466.88	7396.88	5889.38	4753.13	3729.38	3133.13	2891.25	2310.75	2030.63
90.0	6514.31	5126.06	4219.88	3452.06	2934.00	2494.13	2163.94	1945.69	1780.31
135.0	6108.75	4837.50	3999.38	3346.88	2851.88	2401.88	2133.56	1928.25	1735.31
180.0	5305.50	4245.19	3541.50	2885.63	2500.31	2202.75	1919.81	1771.88	1634.06
225.0	7369.88	5796.56	4721.06	3813.75	3146.63	2711.25	2342.25	2088.00	1867.50
270.0	10383.75	8268.75	6665.63	5405.63	4325.63	3538.13	3015.00	2851.88	2252.25
315.0	10981.69	9239.63	7430.63	5799.38	4709.25	3803.06	3138.19	2699.44	2372.63
360.0	12808.13	10507.50	8550.00	6840.00	5197.50	4252.50	3538.13	2936.25	2657.25
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2215.13	1985.06	1769.63	1650.38	1561.50	1486.13	1427.63	1384.31	1342.13
45.0	1846.69	1689.19	1581.75	1513.69	1443.94	1399.50	1356.75	1319.06	1287.56
90.0	1633.50	1549.13	1483.31	1419.19	1377.56	1342.69	1302.19	1271.81	1243.69
135.0	1624.50	1537.88	1460.81	1413.56	1372.50	1329.19	1297.13	1267.31	1235.81
180.0	1527.19	1472.06	1420.88	1364.06	1333.13	1302.75	1264.50	1242.00	1216.69
225.0	1712.25	1609.31	1531.69	1460.25	1414.69	1375.88	1333.13	1301.63	1271.25
270.0	2026.13	1863.56	1672.88	1575.00	1511.44	1433.25	1388.25	1353.94	1310.63
315.0	2073.38	1886.06	1737.56	1604.81	1528.31	1468.69	1413.56	1367.44	1329.75
360.0	2215.13	1985.06	1769.63	1650.38	1561.50	1486.13	1427.63	1384.31	1342.13
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1308.38	1272.94	1240.31	1212.75	1181.81	1154.81	1135.13	1116.56	1049.63
45.0	1257.19	1219.50	1189.13	1161.56	1133.44	1112.06	1072.69	1002.38	888.19
90.0	1207.13	1180.69	1151.44	1121.12	1097.83	1035.11	943.37	846.51	740.64
135.0	1204.31	1176.19	1149.19	1127.81	1096.88	1025.44	939.38	828.00	706.50
180.0	1185.75	1158.19	1121.63	1111.56	1060.76	975.04	881.78	765.45	642.60
225.0	1239.19	1205.44	1179.56	1156.50	1119.99	1086.86	1017.56	915.58	796.05
270.0	1274.06	1248.19	1212.19	1182.94	1158.19	1131.19	1108.13	1053.56	953.44
315.0	1289.81	1256.06	1221.75	1187.44	1162.13	1120.28	1107.56	1069.65	995.96
360.0	1308.38	1272.94	1240.31	1212.75	1181.81	1154.81	1135.13	1116.56	1049.63
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	966.38	876.94	732.38	598.50	498.94	358.31	291.38	145.18	69.41
45.0	782.44	671.63	545.06	421.31	311.06	285.19	102.71	50.06	34.48
90.0	615.83	493.03	384.86	265.50	158.85	85.33	41.96	31.95	24.64
135.0	593.44	480.94	342.00	289.69	139.84	64.63	36.90	30.77	22.73
180.0	531.06	403.31	293.29	178.88	90.23	46.46	35.55	26.83	20.81
225.0	683.27	554.18	441.06	314.83	201.94	118.01	59.34	37.35	30.88
270.0	856.13	747.56	604.69	489.38	375.19	294.19	148.73	79.59	39.71
315.0	876.32	770.68	658.07	525.43	398.42	290.98	180.73	91.52	45.84
360.0	966.38	876.94	732.38	598.50	498.94	358.31	291.38	145.18	69.41

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	38.64	32.12	24.47	19.01	17.33	15.98	15.02	14.74	14.51
45.0	28.07	20.70	17.44	16.54	15.19	14.85	14.63	14.34	14.18
90.0	18.96	17.10	16.09	15.19	14.96	14.74	14.40	14.18	14.06
135.0	18.17	16.93	15.30	14.85	14.63	14.46	14.29	14.18	14.01
180.0	18.39	16.48	15.08	14.79	14.46	14.29	14.12	14.01	13.89
225.0	23.85	19.24	17.61	15.30	14.85	14.51	14.29	14.12	13.95
270.0	32.91	25.71	19.29	17.61	16.37	15.19	14.79	14.51	14.29
315.0	34.48	27.96	20.48	17.55	16.48	15.36	14.96	14.68	14.51
360.0	38.64	32.12	24.47	19.01	17.33	15.98	15.02	14.74	14.51
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	14.34	14.18	14.06	13.89	13.84	13.67	13.61	13.50	13.44
45.0	14.06	13.95	13.84	13.73	13.61	13.50	13.44	13.39	13.33
90.0	13.89	13.84	13.67	13.61	13.50	13.44	13.39	13.33	13.28
135.0	13.89	13.78	13.67	13.61	13.50	13.44	13.39	13.33	13.28
180.0	13.84	13.67	13.61	13.50	13.44	13.39	13.33	13.33	13.28
225.0	13.84	13.67	13.56	13.50	13.44	13.33	13.28	13.22	13.16
270.0	14.12	14.01	13.84	13.73	13.61	13.56	13.44	13.39	13.28
315.0	14.23	14.06	13.95	13.84	13.67	13.56	13.50	13.39	13.33
360.0	14.34	14.18	14.06	13.89	13.84	13.67	13.61	13.50	13.44
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.39	13.33	13.28	13.22	13.22	13.16	13.11	13.11	13.05
45.0	13.28	13.22	13.22	13.16	13.11	13.05	13.05	13.05	13.05
90.0	13.22	13.16	13.11	13.11	13.05	13.05	12.99	12.99	12.94
135.0	13.22	13.22	13.16	13.11	13.05	13.05	13.05	12.99	12.99
180.0	13.28	13.22	13.16	13.16	13.11	13.11	13.05	13.05	12.99
225.0	13.11	13.11	13.05	13.05	12.99	12.99	12.94	12.88	12.88
270.0	13.22	13.16	13.16	13.11	13.05	13.05	12.99	12.94	12.94
315.0	13.28	13.22	13.16	13.16	13.11	13.05	12.99	12.99	12.94
360.0	13.39	13.33	13.28	13.22	13.22	13.16	13.11	13.11	13.05
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.05	13.05	12.99	12.99	12.99	12.94	12.99	12.94	12.94
45.0	12.94	12.94	12.94	12.88	12.88	12.88	12.83	12.88	12.83
90.0	12.94	12.88	12.88	12.88	12.88	12.83	12.83	12.83	12.77
135.0	12.99	12.94	12.94	12.88	12.88	12.88	12.88	12.83	12.83
180.0	12.99	12.99	12.99	12.94	12.94	12.94	12.94	12.88	12.88
225.0	12.88	12.88	12.88	12.88	12.83	12.83	12.83	12.77	12.77
270.0	12.94	12.88	12.88	12.88	12.83	12.83	12.83	12.77	12.77
315.0	12.94	12.88	12.94	12.94	12.88	12.88	12.88	12.83	12.83
360.0	13.05	13.05	12.99	12.99	12.99	12.94	12.99	12.94	12.94
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.94	12.88	12.88	12.88	12.88	12.88	12.94	12.83	12.77
45.0	12.83	12.83	12.83	12.77	12.77	12.71	12.66	12.71	12.66
90.0	12.77	12.77	12.77	12.71	12.71	12.66	12.66	12.66	12.66
135.0	12.83	12.83	12.83	12.83	12.83	12.71	12.71	12.71	12.71
180.0	12.88	12.88	12.88	13.11	13.11	12.77	12.77	12.77	12.77
225.0	12.77	12.77	12.77	12.77	12.71	12.71	12.71	12.66	12.66
270.0	12.83	12.77	12.77	12.71	12.77	12.71	12.71	12.66	12.66
315.0	12.77	12.83	12.83	12.83	12.77	12.83	12.77	12.71	12.71
360.0	12.94	12.88	12.88	12.88	12.88	12.88	12.94	12.83	12.77

Intensity data(cd)

C/γ(°)	90.0
0.0	12.77
45.0	12.66
90.0	12.66
135.0	12.71
180.0	12.77
225.0	12.66
270.0	12.66
315.0	12.71
360.0	12.77