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Nata

LumCAT: 4-2275-M	
Luminaire: 92.70.131.00	
Report No: NATA0100	Voltage(V): 34.7000
Test No: GC2018091105	Current(A): 0.5100
LampCAT: LUMINUS CXM-11-AC30	Power (W): 17.6970
Lamp flux(lm): 2527.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2280.70
Efficiency(%): 90.25%
Lumens(lm)/Power(W): 129.04
Central intensity(cd): 12449.530
Maximum intensity(cd): 12449.530
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=18.9
 [C90/270]Total=18.9
Field angle(10%Imax): [C0/180]Total=37.7
 [C90/270]Total=37.7
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.32 C90_270=0.32
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.37%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.507%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12449.531	2.978	2.978	.118%	.131%
1.0	12358.828	23.653	26.631	.936%	1.168%
2.0	12122.578	46.394	73.026	1.836%	3.202%
3.0	11681.016	67.040	140.066	2.653%	6.141%
4.0	11211.469	85.763	225.828	3.394%	9.902%
5.0	10611.984	101.425	327.253	4.014%	14.349%
6.0	9791.016	112.231	439.484	4.441%	19.270%
7.0	8835.820	118.085	557.569	4.673%	24.447%
8.0	7812.914	119.239	676.809	4.719%	29.675%
9.0	6698.391	114.909	791.718	4.547%	34.714%
10.0	5633.789	107.281	898.999	4.245%	39.418%
11.0	4675.078	97.823	996.821	3.871%	43.707%
12.0	3849.750	87.773	1084.595	3.473%	47.555%
13.0	3136.922	77.383	1161.977	3.062%	50.948%
14.0	2662.805	70.643	1232.62	2.796%	54.046%
15.0	2216.531	62.910	1295.53	2.490%	56.804%
16.0	1858.922	56.189	1351.719	2.224%	59.268%
17.0	1611.633	51.672	1403.391	2.045%	61.533%
18.0	1384.024	46.901	1450.291	1.856%	63.590%
19.0	1220.084	43.560	1493.851	1.724%	65.500%
20.0	1104.525	41.427	1535.278	1.639%	67.316%
21.0	1002.516	39.398	1574.675	1.559%	69.043%
22.0	939.705	38.603	1613.278	1.528%	70.736%
23.0	893.791	38.297	1651.575	1.516%	72.415%
24.0	863.789	38.528	1690.103	1.525%	74.104%
25.0	843.926	39.111	1729.214	1.548%	75.819%
26.0	828.991	39.851	1769.066	1.577%	77.567%
27.0	816.012	40.625	1809.691	1.608%	79.348%
28.0	805.577	41.473	1851.164	1.641%	81.166%
29.0	792.788	42.148	1893.312	1.668%	83.014%
30.0	780.996	42.822	1936.135	1.695%	84.892%
31.0	769.416	43.456	1979.591	1.720%	86.797%
32.0	757.097	43.996	2023.587	1.741%	88.726%
33.0	744.441	44.462	2068.049	1.759%	90.676%
34.0	709.559	43.511	2111.56	1.722%	92.584%
35.0	613.765	38.605	2150.166	1.528%	94.276%
36.0	475.643	30.659	2180.824	1.213%	95.621%
37.0	342.070	22.575	2203.399	.893%	96.611%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	235.406	15.893	2219.292	.629%	97.307%
39.0	102.002	7.039	2226.332	.279%	97.616%
40.0	33.469	2.359	2228.691	.093%	97.719%
41.0	21.776	1.567	2230.258	.062%	97.788%
42.0	18.626	1.367	2231.624	.054%	97.848%
43.0	15.539	1.162	2232.786	.046%	97.899%
44.0	13.570	1.034	2233.82	.041%	97.944%
45.0	12.551	0.973	2234.793	.039%	97.987%
46.0	12.263	0.967	2235.761	.038%	98.029%
47.0	12.030	0.965	2236.726	.038%	98.072%
48.0	11.848	0.966	2237.691	.038%	98.114%
49.0	11.679	0.967	2238.658	.038%	98.157%
50.0	11.531	0.969	2239.626	.038%	98.199%
51.0	11.398	0.971	2240.598	.038%	98.242%
52.0	11.292	0.976	2241.573	.039%	98.284%
53.0	11.173	0.978	2242.552	.039%	98.327%
54.0	11.067	0.982	2243.534	.039%	98.370%
55.0	10.969	0.985	2244.519	.039%	98.414%
56.0	10.877	0.989	2245.508	.039%	98.457%
57.0	10.779	0.991	2246.499	.039%	98.500%
58.0	10.709	0.996	2247.495	.039%	98.544%
59.0	10.624	0.999	2248.494	.040%	98.588%
60.0	10.575	1.004	2249.498	.040%	98.632%
61.0	10.512	1.008	2250.506	.040%	98.676%
62.0	10.463	1.013	2251.519	.040%	98.720%
63.0	10.413	1.017	2252.537	.040%	98.765%
64.0	10.357	1.021	2253.558	.040%	98.810%
65.0	10.329	1.027	2254.584	.041%	98.855%
66.0	10.294	1.031	2255.615	.041%	98.900%
67.0	10.266	1.036	2256.652	.041%	98.945%
68.0	10.223	1.039	2257.691	.041%	98.991%
69.0	10.181	1.042	2258.734	.041%	99.037%
70.0	10.153	1.046	2259.78	.041%	99.083%
71.0	10.118	1.049	2260.829	.042%	99.129%
72.0	10.104	1.054	2261.883	.042%	99.175%
73.0	10.090	1.058	2262.941	.042%	99.221%
74.0	10.062	1.061	2264.001	.042%	99.268%
75.0	10.048	1.064	2265.066	.042%	99.314%

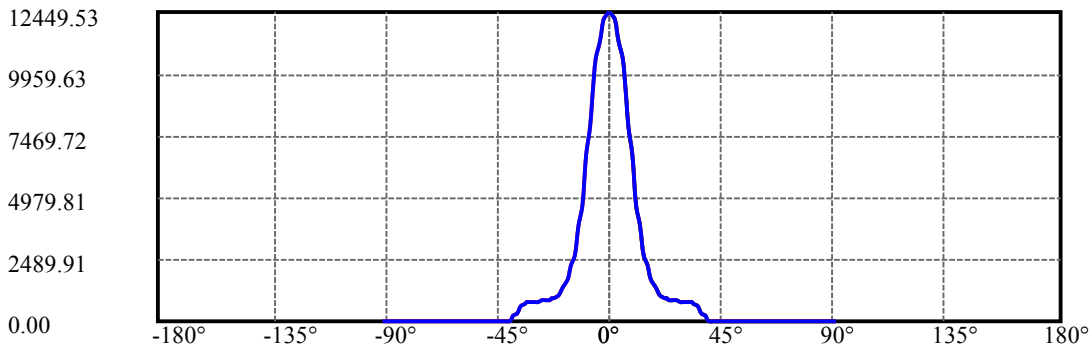
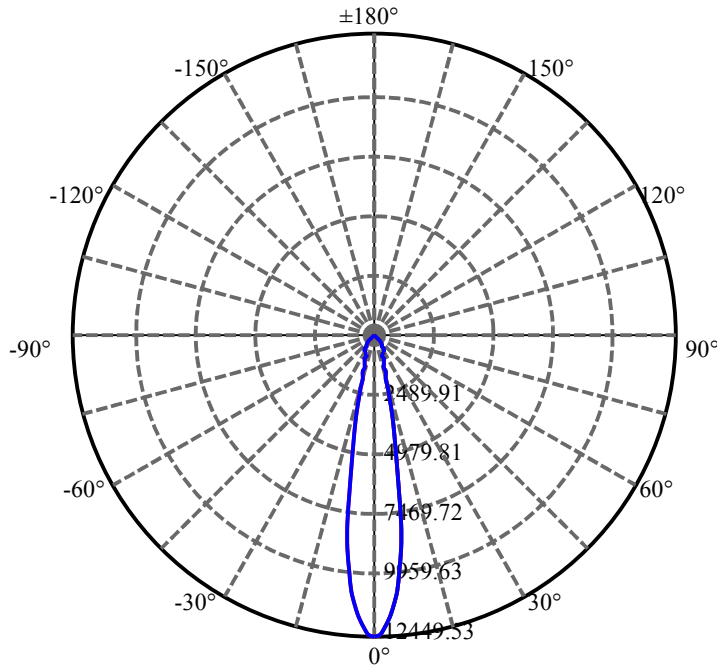
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.020	1.066	2266.132	.042%	99.361%
77.0	9.998	1.068	2267.2	.042%	99.408%
78.0	9.998	1.072	2268.273	.042%	99.455%
79.0	9.984	1.075	2269.347	.043%	99.502%
80.0	9.970	1.077	2270.424	.043%	99.549%
81.0	9.963	1.079	2271.503	.043%	99.597%
82.0	9.963	1.082	2272.585	.043%	99.644%
83.0	9.949	1.083	2273.668	.043%	99.692%
84.0	9.942	1.084	2274.752	.043%	99.739%
85.0	9.935	1.085	2275.838	.043%	99.787%
86.0	9.907	1.084	2276.922	.043%	99.834%
87.0	9.865	1.080	2278.002	.043%	99.882%
88.0	9.865	1.081	2279.083	.043%	99.929%
89.0	9.851	1.080	2280.163	.043%	99.976%
90.0	9.837	0.539	2280.702	.021%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1936.13	76.62%	84.89%
0-40	2228.69	88.20%	97.72%
0-60	2249.50	89.02%	98.63%
0-90	2280.16	90.23%	99.98%
0-120	2280.16	90.23%	99.98%
0-180	2280.70	90.25%	100.00%
60-90	31.67	1.25%	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%
0-27.36	1824.56	72.20%	80.00%

ZONAL LUMEN SUMMARY

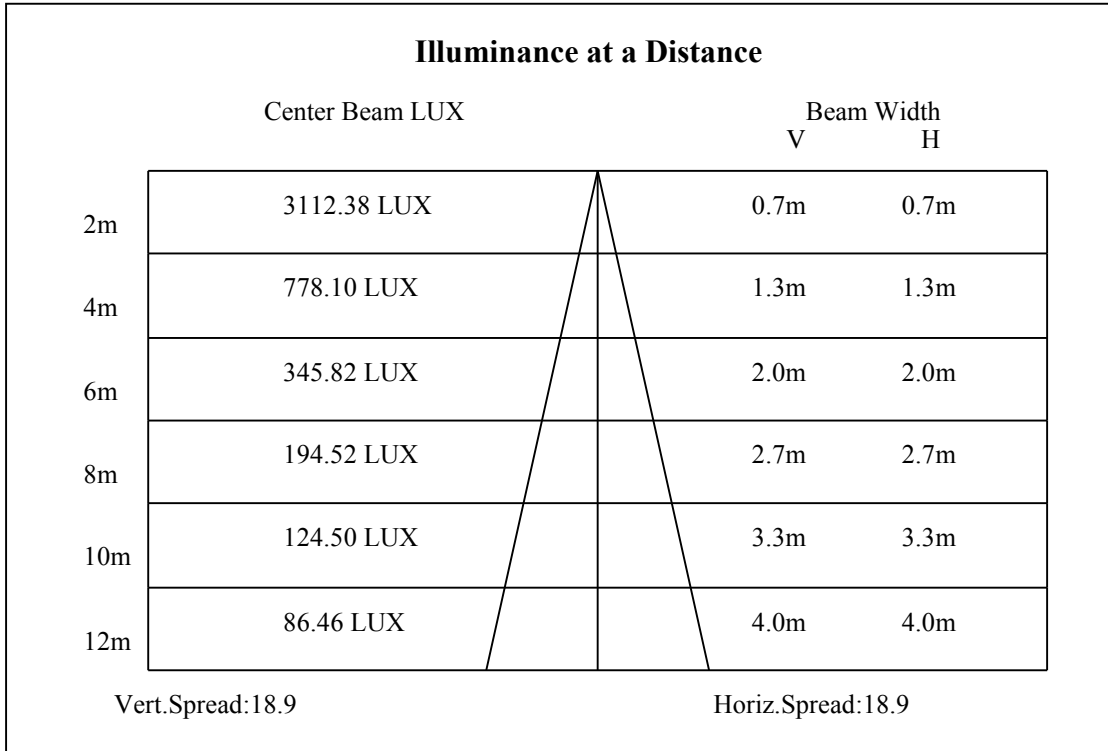
0-10	899.00
10-20	636.28
20-30	400.86
30-40	292.56
40-50	10.94
50-60	9.87
60-70	10.28
70-80	10.64
80-90	9.74
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

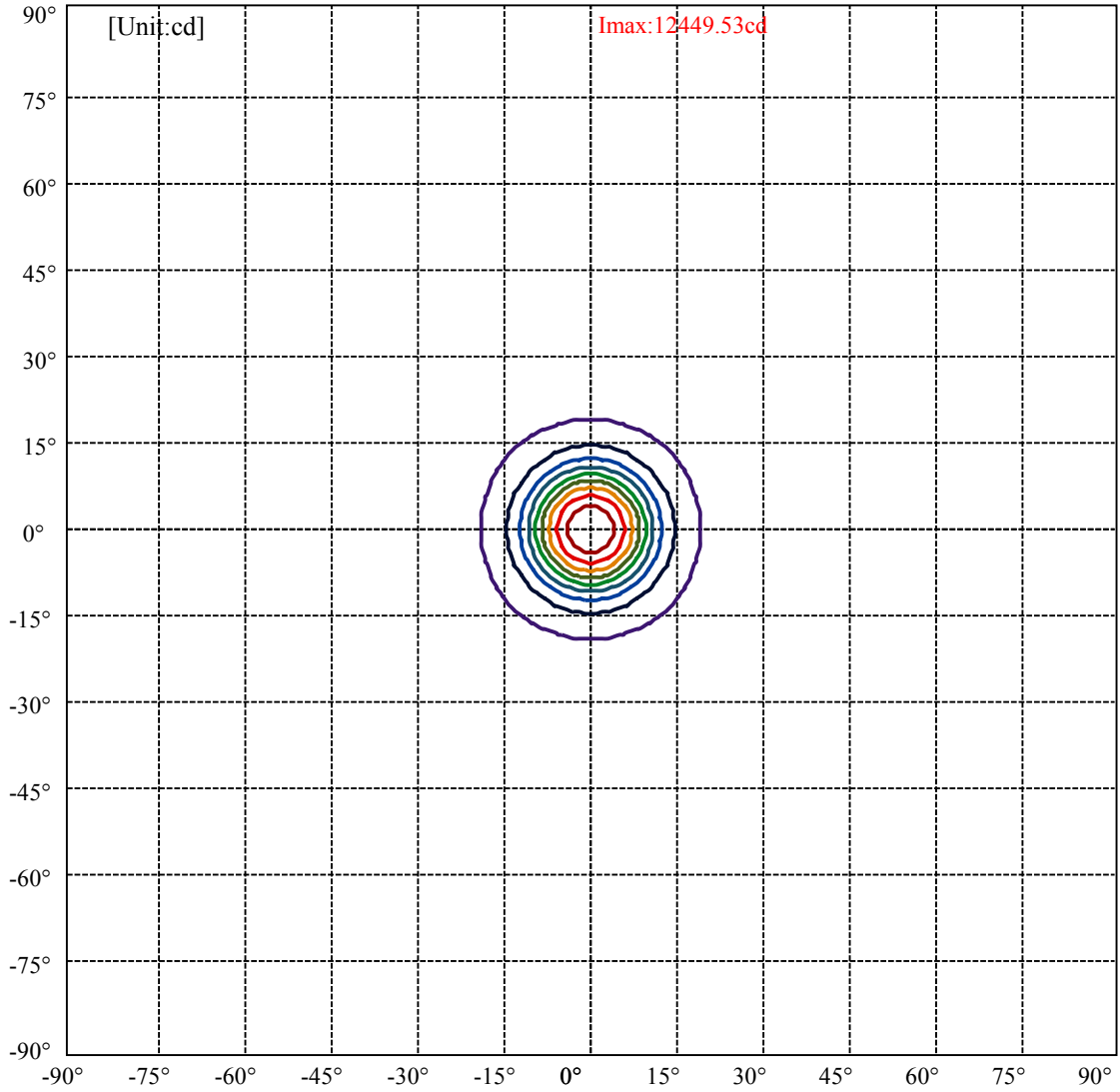


C0(Max): —————
C0/C180: —————
C90/C270: —————

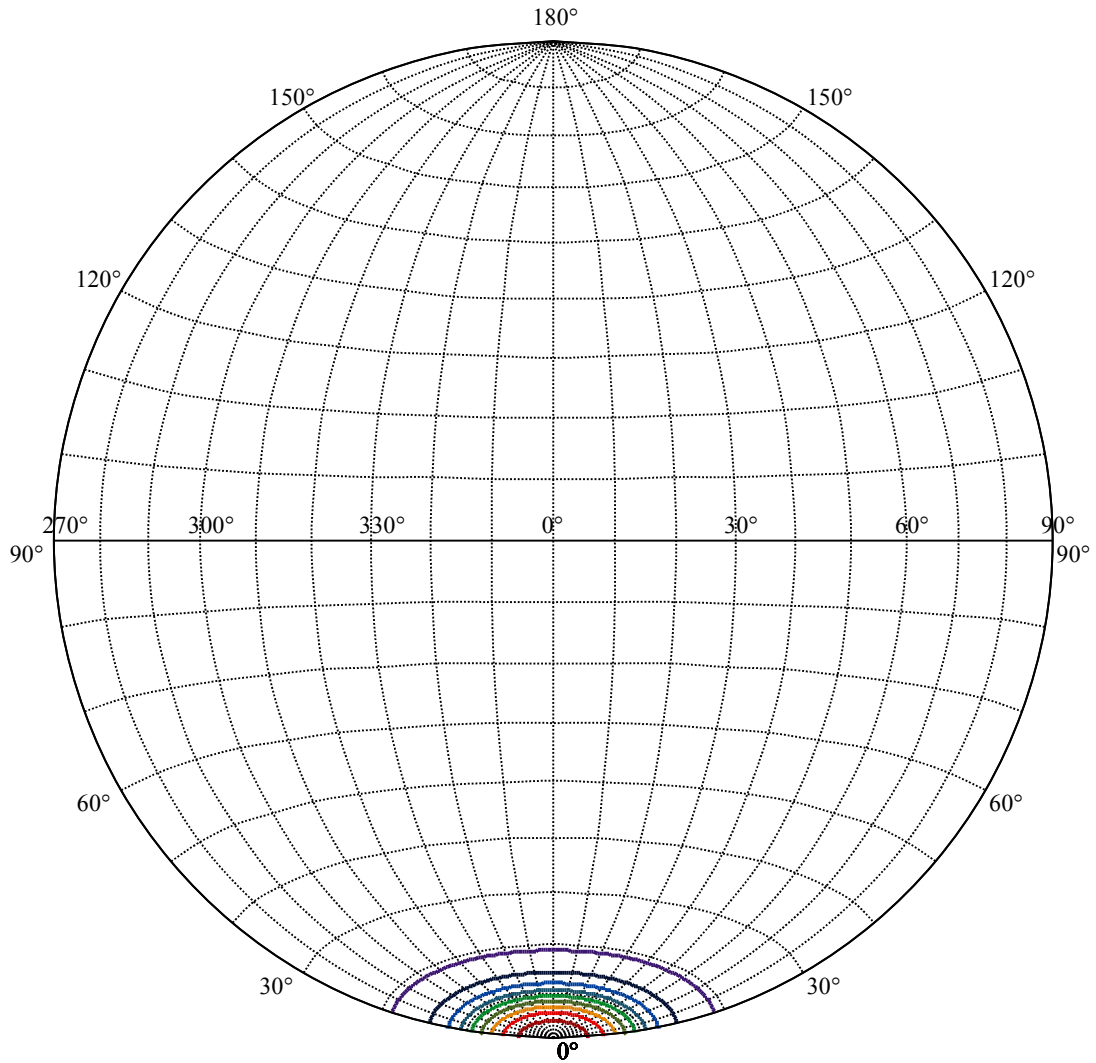
Field angle(10%Imax):C0/180Left:18.8 Right:18.8
:C90/270Left:18.8 Right:18.8

Beam Angle(50%Imax):C0/180Left:9.4 Right:9.4
:C90/270Left:9.4 Right:9.4





(10%Imax) 1244.95	—
(20%Imax) 2489.91	—
(30%Imax) 3734.86	—
(40%Imax) 4979.81	—
(50%Imax) 6224.77	—
(60%Imax) 7469.72	—
(70%Imax) 8714.67	—
(80%Imax) 9959.63	—
(90%Imax) 11204.6	—



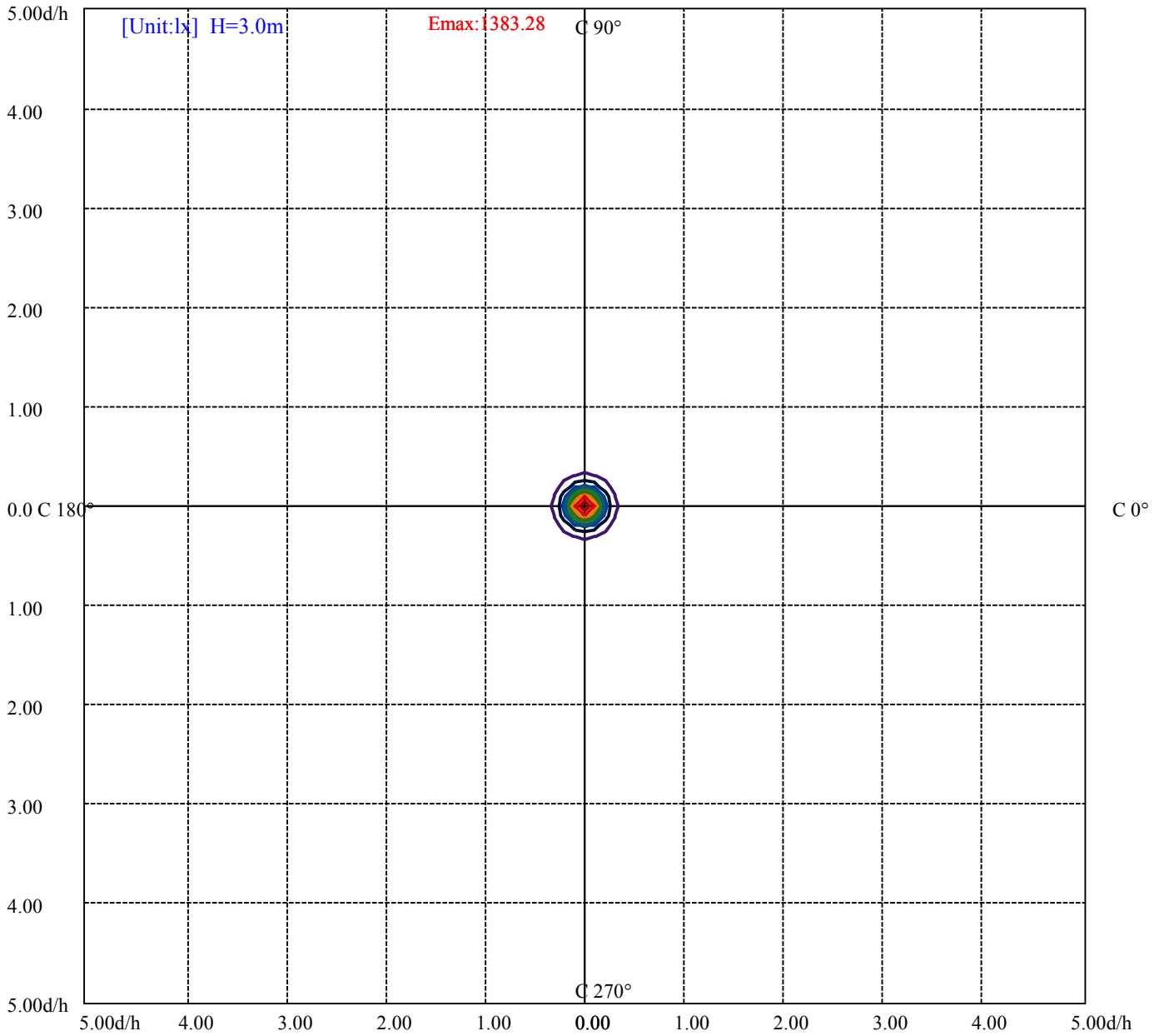
House

[Unit:cd]

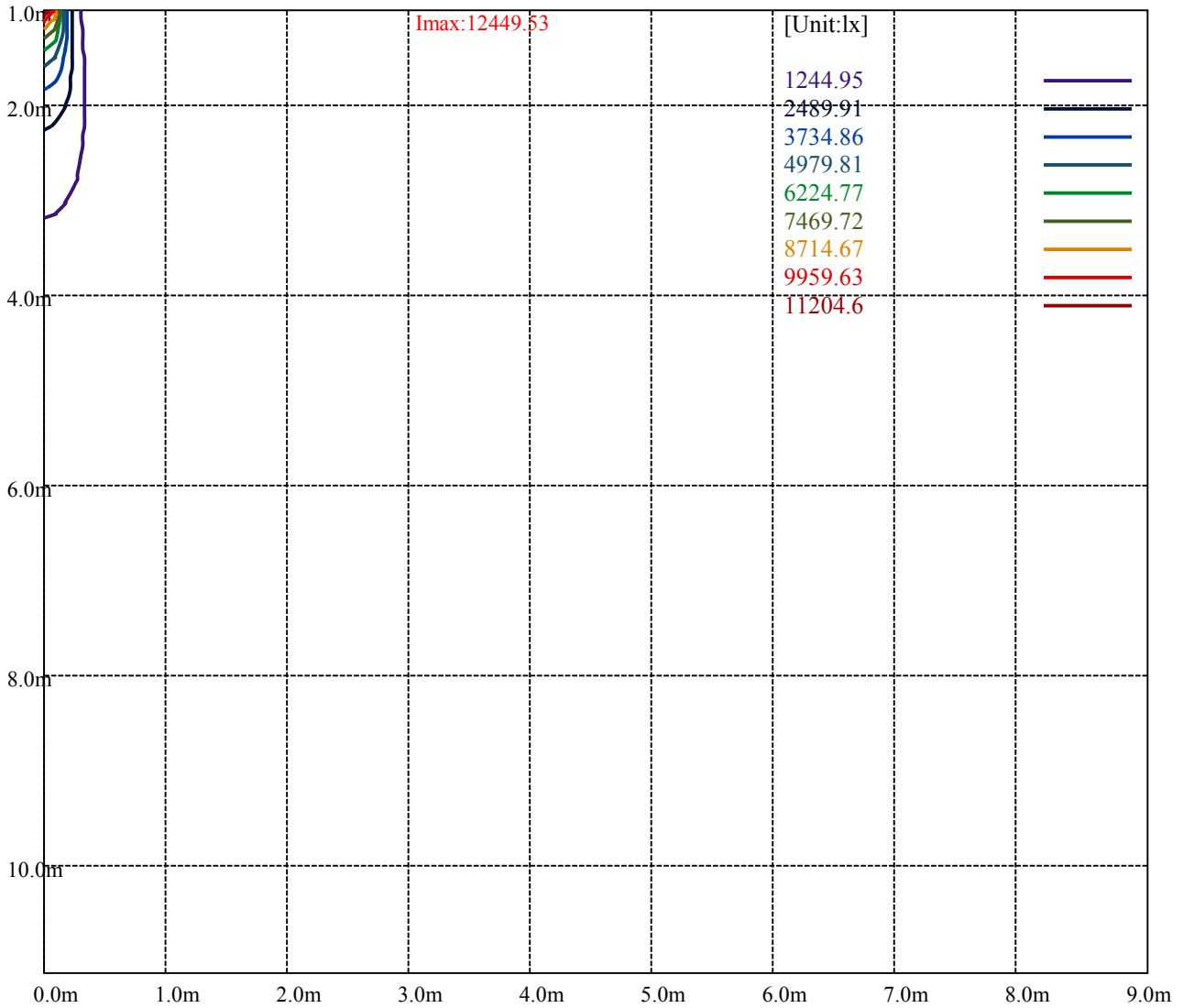
Road

Imax:12449.53

(10%Imax)	1244.95	—
(20%Imax)	2489.91	—
(30%Imax)	3734.86	—
(40%Imax)	4979.81	—
(50%Imax)	6224.77	—
(60%Imax)	7469.72	—
(70%Imax)	8714.67	—
(80%Imax)	9959.63	—
(90%Imax)	11204.6	—



(10%Emax) 138.3278	—
(20%Emax) 276.6555	—
(30%Emax) 414.9845	—
(40%Emax) 553.3123	—
(50%Emax) 691.64	—
(60%Emax) 829.9678	—
(70%Emax) 968.2956	—
(80%Emax) 1106.623	—
(90%Emax) 1244.956	—



Luminance Table

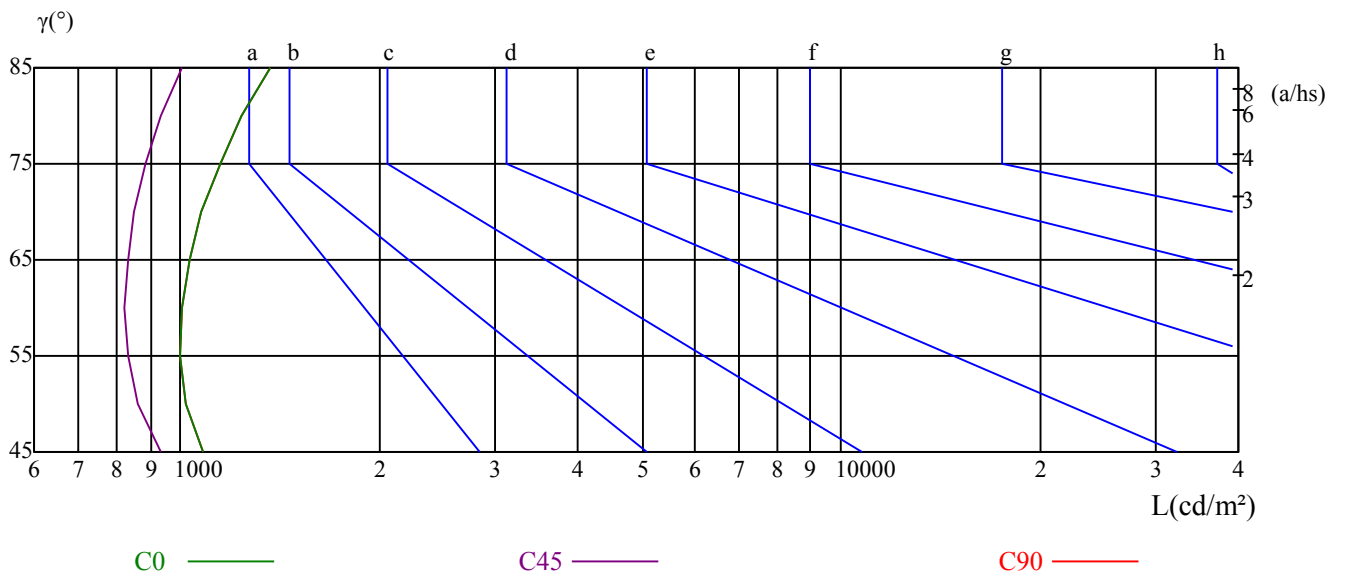
γ	45	50	55	60	65	70	75	80	85
C0	1082	1018	999	1003	1030	1076	1146	1240	1371
C45	932	863	834	824	831	851	887	936	1005
C90	1082	1018	999	1003	1030	1076	1146	1240	1371

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2444	2444	2444	3882	3882	3882	11399	11399	11399

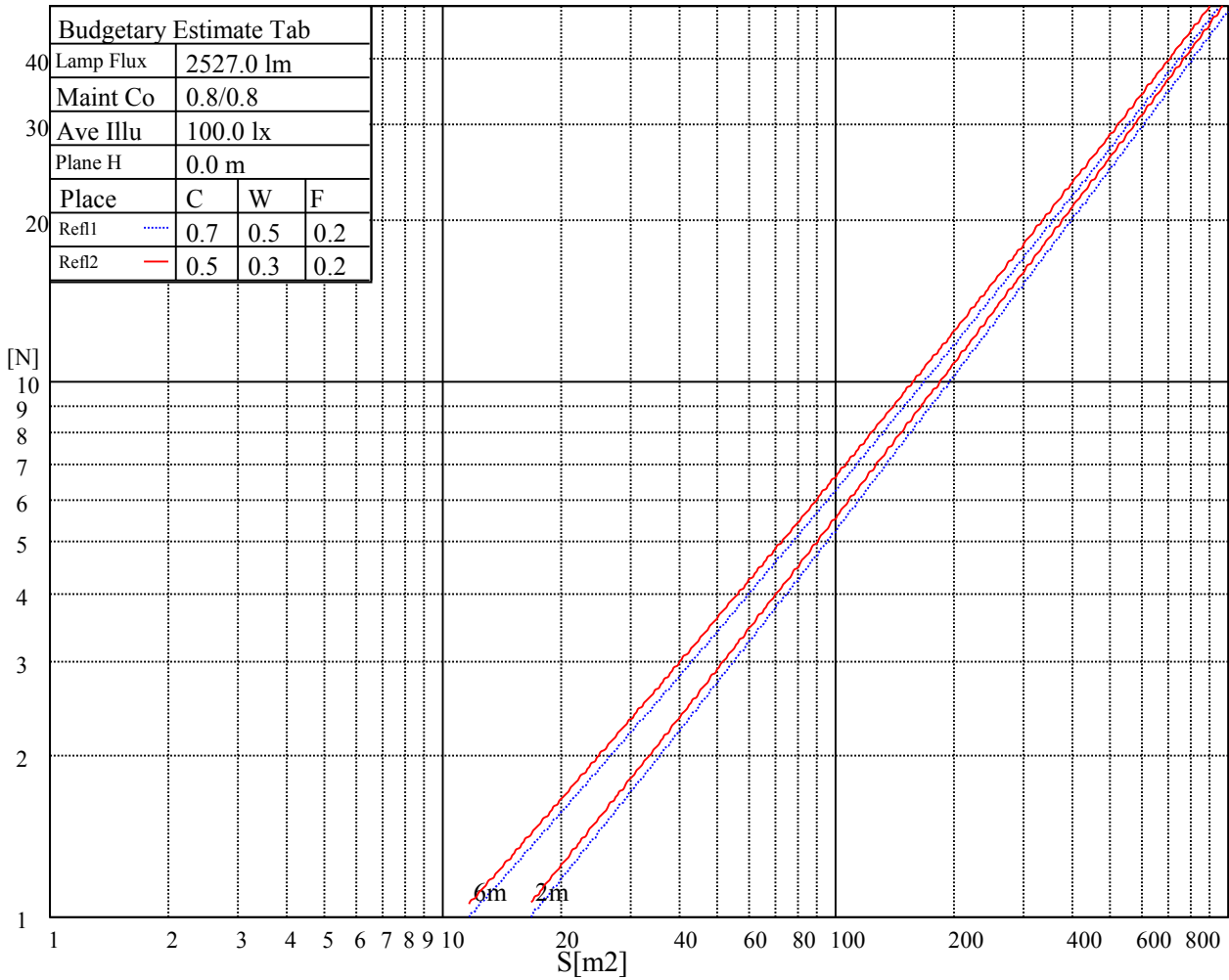
Glare Table

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

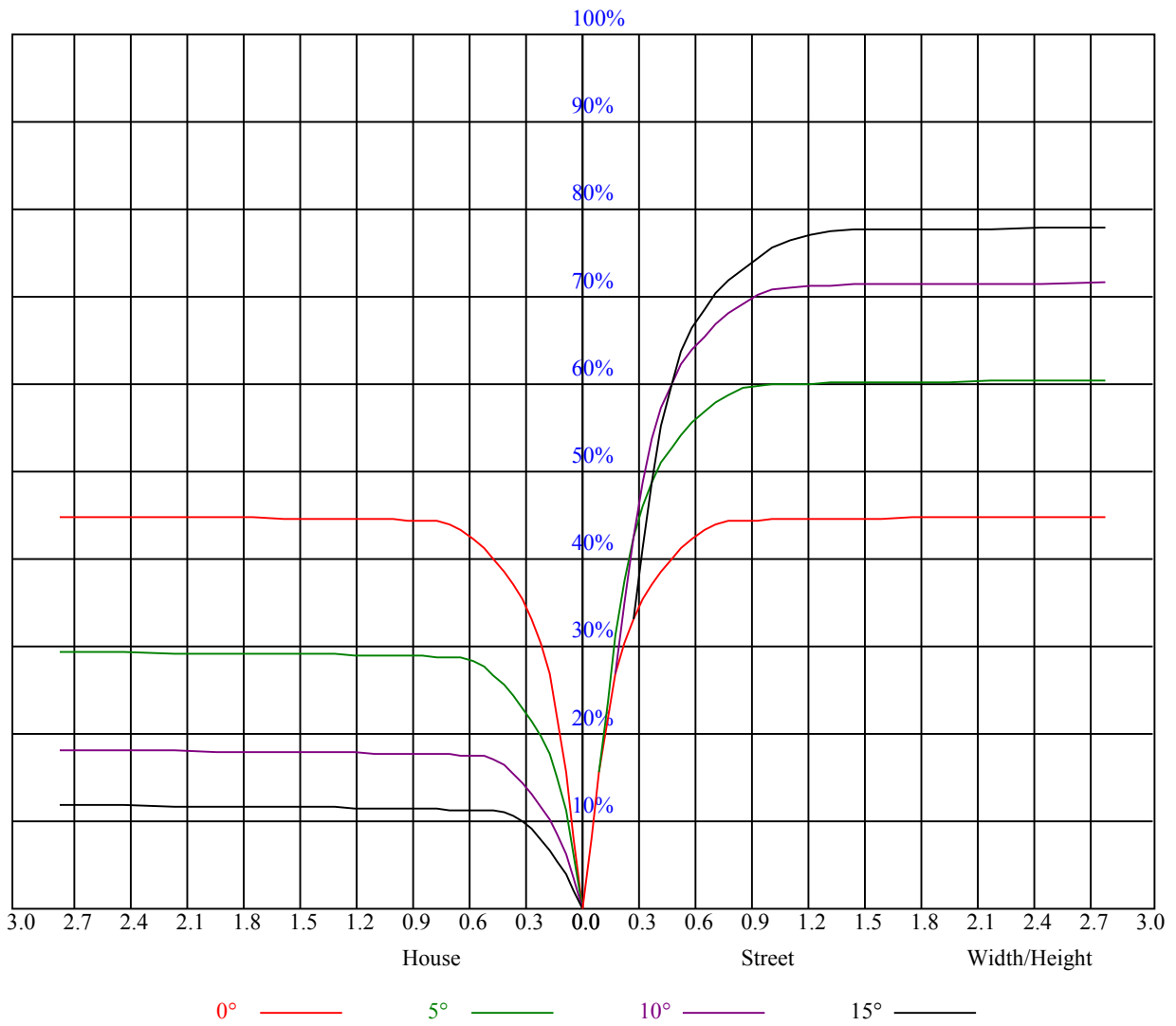
Luminance Limiting Curve



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	-1.74	-0.83	-1.38	-0.52	-0.21	-1.71	-0.80	-1.34	-0.48	-0.17
	3H	0.57	1.37	0.95	1.70	2.07	0.62	1.42	1.00	1.75	2.12
	4H	1.83	2.57	2.24	2.92	3.32	1.87	2.61	2.27	2.96	3.35
	6H	3.15	3.83	3.57	4.21	4.60	3.18	3.86	3.60	4.24	4.64
	8H	3.81	4.45	4.25	4.84	5.25	3.84	4.48	4.28	4.87	5.28
	12H	4.83	5.44	5.27	5.82	6.25	4.86	5.47	5.30	5.85	6.29
4H	2H	-1.24	-0.50	-0.83	-0.15	0.25	-1.21	-0.47	-0.80	-0.12	0.28
	3H	1.36	1.97	1.78	2.38	2.79	1.39	2.00	1.81	2.41	2.82
	4H	2.79	3.34	3.23	3.76	4.21	2.82	3.36	3.26	3.79	4.24
	6H	4.22	4.68	4.69	5.13	5.61	4.24	4.70	4.71	5.15	5.63
	8H	4.99	5.42	5.47	5.88	6.35	5.01	5.45	5.49	5.90	6.37
	12H	6.00	6.37	6.49	6.86	7.34	6.03	6.40	6.52	6.89	7.37
8H	4H	3.24	3.67	3.72	4.12	4.60	3.26	3.69	3.74	4.14	4.62
	6H	4.90	5.24	5.42	5.75	6.24	4.92	5.26	5.43	5.76	6.25
	8H	5.83	6.13	6.36	6.66	7.15	5.85	6.15	6.38	6.67	7.17
	12H	6.97	7.23	7.49	7.73	8.31	6.99	7.25	7.52	7.75	8.33
12H	4H	3.33	3.70	3.82	4.19	4.67	3.35	3.72	3.84	4.21	4.69
	6H	5.28	5.38	5.62	5.85	6.40	5.29	5.40	5.63	5.87	6.42
	8H	6.10	6.36	6.62	6.86	7.44	6.12	6.37	6.64	6.87	7.46
Variation with the observer position at spacings:											
S = 1.0H		5.7/-8.9					5.7/-8.9				
S = 1.5H		8.2/-6.9					8.2/-6.9				
S = 2.0H		9.9/-5.6					9.9/-5.6				
Standard tables:		BK1					BK1				
Uncorrected UGR		-4.3					-4.3				



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	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
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	0.88	0.88	0.86
2	0.96	0.93	0.90	0.94	0.92	0.89	0.92	0.89	0.88	0.89	0.87	0.86	0.87	0.85	0.84	0.83
3	0.91	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.79
4	0.87	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.75	0.74
6	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
10	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	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	12470.63	12386.25	12093.75	11615.63	11109.38	10496.25	9540.00	8617.50	7633.13
45.0	12358.13	12425.63	12307.50	12071.25	11688.75	11075.63	10456.88	9675.00	8628.75
90.0	12465.00	12352.50	12172.50	11835.00	11194.31	10752.19	10033.88	9066.94	7934.63
135.0	12504.38	12431.25	12256.88	11964.38	11593.13	11086.88	10226.25	9416.25	8510.63
180.0	12470.63	12363.75	12166.88	11851.88	11215.69	10812.38	9974.81	8881.88	8038.69
225.0	12358.13	12166.88	11818.13	11176.88	10707.75	9833.06	8946.00	7882.88	6768.00
270.0	12465.00	12431.25	12155.63	11716.88	11244.38	10569.38	9680.63	8746.88	7740.00
315.0	12504.38	12313.13	12009.38	11216.25	10938.38	10270.13	9469.69	8399.25	7249.50
360.0	12470.63	12386.25	12093.75	11615.63	11109.38	10496.25	9540.00	8617.50	7633.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6412.50	5473.13	4595.63	3723.75	3020.63	2891.25	2144.81	1856.81	1602.00
45.0	7515.00	6502.50	5450.63	4573.13	3695.63	2992.50	2863.13	2124.00	1864.69
90.0	6863.63	5721.75	4711.50	3921.75	3238.88	2576.25	2191.50	1883.81	1594.13
135.0	7250.63	6215.63	5248.13	4286.25	3470.63	2863.13	2346.19	1977.19	1715.06
180.0	7000.31	5697.00	4768.88	3976.88	3169.13	2638.69	2224.69	1891.69	1638.56
225.0	5760.00	4697.44	3799.69	3159.56	2632.50	2122.88	1827.00	1607.06	1405.13
270.0	6519.38	5563.13	4623.75	3706.88	2998.13	2868.75	2113.31	1782.00	1562.06
315.0	6265.69	5199.75	4202.44	3449.81	2869.88	2349.00	2021.63	1748.81	1511.44
360.0	6412.50	5473.13	4595.63	3723.75	3020.63	2891.25	2144.81	1856.81	1602.00
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1401.19	1256.06	1117.69	1011.38	949.50	907.88	873.56	854.44	840.38
45.0	1571.63	1388.81	1249.31	1103.63	1009.69	942.19	889.88	864.56	844.31
90.0	1376.44	1118.03	1091.70	994.05	933.30	887.29	860.68	840.60	823.95
135.0	1467.56	1287.56	1137.38	1029.38	957.38	901.13	867.38	846.56	834.75
180.0	1439.44	1266.19	1108.86	1004.63	937.86	889.26	865.18	844.09	830.31
225.0	1113.69	1096.76	990.68	924.02	886.84	858.88	841.39	823.89	809.49
270.0	1373.06	1226.25	1087.31	987.19	930.94	889.88	861.75	843.19	827.44
315.0	1329.19	1121.01	1053.28	965.87	912.15	873.84	850.50	834.08	821.31
360.0	1401.19	1256.06	1117.69	1011.38	949.50	907.88	873.56	854.44	840.38
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	824.63	813.38	799.88	785.81	773.44	762.19	749.81	711.00	595.13
45.0	829.69	818.44	810.00	794.25	779.06	767.25	754.88	743.63	703.69
90.0	817.14	804.09	789.36	779.68	770.18	754.09	744.13	724.11	628.59
135.0	818.44	808.31	798.75	786.94	774.56	765.56	752.63	737.44	669.94
180.0	816.02	805.44	793.35	781.48	773.49	759.83	749.25	733.95	630.68
225.0	799.48	790.20	776.59	767.19	755.55	742.50	721.18	638.83	517.84
270.0	812.25	803.25	789.19	777.94	765.00	756.00	744.19	709.88	612.56
315.0	810.45	801.51	785.19	774.68	764.04	749.36	739.46	677.64	551.70
360.0	824.63	813.38	799.88	785.81	773.44	762.19	749.81	711.00	595.13
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	448.31	312.19	294.75	72.34	26.33	23.63	19.86	15.75	13.16
45.0	597.38	469.69	318.94	287.44	71.44	24.24	21.26	18.11	15.47
90.0	491.12	358.76	214.03	89.27	25.20	19.46	17.16	14.79	12.88
135.0	546.19	409.50	298.13	136.01	41.46	20.98	18.79	15.86	14.46
180.0	508.56	376.54	228.26	97.99	30.60	21.99	19.52	16.14	14.01
225.0	346.28	214.43	103.61	29.76	22.78	20.08	16.20	13.50	12.66
270.0	466.88	331.31	297.00	63.45	24.92	22.05	18.23	15.19	13.33
315.0	400.44	264.15	128.53	39.77	25.03	21.77	18.00	14.96	12.60
360.0	448.31	312.19	294.75	72.34	26.33	23.63	19.86	15.75	13.16

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	12.88	12.54	12.38	12.15	11.98	11.87	11.70	11.59	11.42
45.0	13.05	12.43	12.21	11.98	11.81	11.70	11.53	11.42	11.31
90.0	12.26	12.04	11.81	11.70	11.53	11.42	11.25	11.19	11.08
135.0	12.49	12.26	12.04	11.81	11.64	11.48	11.36	11.25	11.14
180.0	12.49	12.26	12.04	11.87	11.70	11.53	11.42	11.31	11.19
225.0	12.38	12.15	11.93	11.76	11.59	11.42	11.31	11.19	11.08
270.0	12.49	12.26	11.98	11.81	11.64	11.48	11.36	11.25	11.14
315.0	12.38	12.15	11.87	11.70	11.53	11.36	11.25	11.14	11.03
360.0	12.88	12.54	12.38	12.15	11.98	11.87	11.70	11.59	11.42
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.36	11.19	11.08	10.91	10.80	10.69	10.58	10.52	10.46
45.0	11.19	11.08	10.97	10.86	10.80	10.69	10.63	10.58	10.52
90.0	10.97	10.86	10.80	10.69	10.63	10.58	10.58	10.46	10.46
135.0	11.08	10.97	10.86	10.80	10.74	10.63	10.58	10.52	10.46
180.0	11.08	11.03	10.91	10.80	10.74	10.69	10.63	10.58	10.52
225.0	10.97	10.86	10.80	10.74	10.63	10.58	10.52	10.52	10.41
270.0	10.97	10.91	10.86	10.74	10.69	10.63	10.58	10.46	10.46
315.0	10.91	10.86	10.74	10.69	10.63	10.52	10.52	10.46	10.41
360.0	11.36	11.19	11.08	10.91	10.80	10.69	10.58	10.52	10.46
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.41	10.35	10.35	10.29	10.29	10.24	10.18	10.18	10.13
45.0	10.46	10.41	10.35	10.35	10.35	10.29	10.24	10.24	10.18
90.0	10.35	10.29	10.29	10.24	10.24	10.18	10.13	10.13	10.07
135.0	10.46	10.35	10.35	10.29	10.24	10.24	10.18	10.13	10.13
180.0	10.46	10.41	10.41	10.35	10.29	10.24	10.24	10.18	10.13
225.0	10.41	10.35	10.29	10.29	10.24	10.24	10.18	10.13	10.13
270.0	10.41	10.41	10.35	10.29	10.24	10.18	10.18	10.13	10.13
315.0	10.35	10.29	10.24	10.24	10.24	10.18	10.13	10.13	10.07
360.0	10.41	10.35	10.35	10.29	10.29	10.24	10.18	10.18	10.13
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.13	10.13	10.07	10.07	10.01	10.01	10.01	10.01	9.96
45.0	10.18	10.18	10.13	10.13	10.13	10.07	10.07	10.07	10.07
90.0	10.07	10.07	10.01	10.01	10.01	9.96	9.96	9.96	9.90
135.0	10.13	10.07	10.07	10.07	10.01	10.01	10.01	9.96	9.96
180.0	10.13	10.07	10.07	10.01	10.01	10.01	10.01	9.96	9.96
225.0	10.07	10.07	10.07	10.07	10.01	10.01	10.01	10.01	10.01
270.0	10.07	10.07	10.01	10.01	10.01	9.96	9.96	9.96	9.96
315.0	10.07	10.07	10.07	10.01	9.96	9.96	9.96	9.96	9.96
360.0	10.13	10.13	10.07	10.07	10.01	10.01	10.01	10.01	9.96
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.96	9.96	9.96	9.96	9.96	9.96	9.90	9.90	9.90
45.0	10.07	10.07	10.07	10.13	10.18	9.96	9.84	9.84	9.84
90.0	9.90	9.90	9.90	9.90	9.84	9.90	9.84	9.84	9.84
135.0	9.96	9.96	9.90	9.90	9.90	9.90	9.90	9.90	9.84
180.0	9.96	9.96	9.96	9.90	9.90	9.90	9.90	9.90	9.90
225.0	10.01	10.01	10.01	9.96	9.90	9.84	9.84	9.84	9.79
270.0	9.96	9.90	9.90	9.90	9.90	9.90	9.84	9.84	9.84
315.0	9.90	9.96	9.90	9.90	9.90	9.90	9.84	9.84	9.84
360.0	9.96	9.96	9.96	9.96	9.96	9.96	9.90	9.90	9.90

Intensity data(cd)

C/ γ (°)	90.0
0.0	9.90
45.0	9.84
90.0	9.79
135.0	9.84
180.0	9.84
225.0	9.79
270.0	9.84
315.0	9.84
360.0	9.90