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Nata

LumCAT: 3-2042-M
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC2018091019
LampCAT: LUMINUS CXM-11-AC30
Lamp flux(lm): 2547.0
Number of Lamps: 1
Length(mm): 84
Phm Type: C

Voltage(V): 34.6000
Current(A): 0.5000
Power (W): 17.3000
PF: 0.0000
Ballast type: DC
Width(mm): 84
Height(mm): 0

Photometric Results

Lumens(lm): 2268.10
Efficiency(%): 89.05%
Lumens(lm)/Power(W): 131.49
Central intensity(cd): 28196.720
Maximum intensity(cd): 28196.720
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=11.4
[C90/270]Total=11.4
Field angle(10%Imax): [C0/180]Total=21.8
[C90/270]Total=21.8
Maximum s/h(1/2): C0_180=0.20 C90_270=0.20
Maximum s/h(1/4): C0_180=0.20 C90_270=0.20
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.351%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	28196.719	6.746	6.746	.265%	.297%
1.0	27810.000	53.224	59.97	2.090%	2.644%
2.0	26414.297	101.090	161.06	3.969%	7.101%
3.0	23943.516	137.417	298.477	5.395%	13.160%
4.0	20845.547	159.459	457.936	6.261%	20.190%
5.0	16219.547	155.020	612.956	6.086%	27.025%
6.0	13092.609	150.076	763.032	5.892%	33.642%
7.0	9848.180	131.614	894.646	5.167%	39.445%
8.0	7000.945	106.847	1001.494	4.195%	44.156%
9.0	4852.336	83.241	1084.734	3.268%	47.826%
10.0	3500.789	66.663	1151.398	2.617%	50.765%
11.0	2738.531	57.302	1208.7	2.250%	53.291%
12.0	2175.750	49.607	1258.306	1.948%	55.479%
13.0	1699.523	41.924	1300.231	1.646%	57.327%
14.0	1445.906	38.359	1338.59	1.506%	59.018%
15.0	1276.650	36.234	1374.824	1.423%	60.616%
16.0	1181.644	35.717	1410.541	1.402%	62.191%
17.0	1101.136	35.304	1445.845	1.386%	63.747%
18.0	1053.352	35.695	1481.54	1.401%	65.321%
19.0	1013.730	36.192	1517.733	1.421%	66.917%
20.0	977.091	36.647	1554.38	1.439%	68.532%
21.0	945.837	37.170	1591.55	1.459%	70.171%
22.0	918.028	37.712	1629.262	1.481%	71.834%
23.0	890.459	38.154	1667.417	1.498%	73.516%
24.0	867.881	38.710	1706.127	1.520%	75.223%
25.0	850.570	39.419	1745.546	1.548%	76.961%
26.0	834.834	40.132	1785.678	1.576%	78.730%
27.0	819.626	40.805	1826.484	1.602%	80.529%
28.0	806.393	41.515	1867.999	1.630%	82.360%
29.0	794.791	42.255	1910.254	1.659%	84.223%
30.0	782.705	42.916	1953.17	1.685%	86.115%
31.0	771.420	43.569	1996.739	1.711%	88.036%
32.0	754.095	43.821	2040.561	1.721%	89.968%
33.0	711.415	42.490	2083.05	1.668%	91.841%
34.0	624.909	38.320	2121.371	1.505%	93.531%
35.0	510.124	32.086	2153.457	1.260%	94.946%
36.0	385.348	24.838	2178.295	.975%	96.041%
37.0	281.820	18.599	2196.894	.730%	96.861%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	169.917	11.472	2208.366	.450%	97.366%
39.0	68.562	4.732	2213.097	.186%	97.575%
40.0	33.103	2.333	2215.431	.092%	97.678%
41.0	23.013	1.656	2217.087	.065%	97.751%
42.0	20.046	1.471	2218.557	.058%	97.816%
43.0	17.416	1.303	2219.86	.051%	97.873%
44.0	15.124	1.152	2221.012	.045%	97.924%
45.0	13.627	1.057	2222.069	.041%	97.971%
46.0	12.952	1.022	2223.09	.040%	98.016%
47.0	12.684	1.017	2224.108	.040%	98.061%
48.0	12.431	1.013	2225.121	.040%	98.105%
49.0	12.220	1.011	2226.132	.040%	98.150%
50.0	12.023	1.010	2227.142	.040%	98.194%
51.0	11.855	1.010	2228.152	.040%	98.239%
52.0	11.693	1.010	2229.163	.040%	98.283%
53.0	11.517	1.009	2230.172	.040%	98.328%
54.0	11.363	1.008	2231.18	.040%	98.372%
55.0	11.236	1.009	2232.189	.040%	98.417%
56.0	11.109	1.010	2233.199	.040%	98.461%
57.0	10.983	1.010	2234.209	.040%	98.506%
58.0	10.891	1.013	2235.222	.040%	98.551%
59.0	10.786	1.014	2236.236	.040%	98.595%
60.0	10.695	1.016	2237.251	.040%	98.640%
61.0	10.610	1.018	2238.269	.040%	98.685%
62.0	10.533	1.020	2239.289	.040%	98.730%
63.0	10.441	1.020	2240.309	.040%	98.775%
64.0	10.371	1.022	2241.331	.040%	98.820%
65.0	10.294	1.023	2242.354	.040%	98.865%
66.0	10.230	1.025	2243.379	.040%	98.910%
67.0	10.181	1.028	2244.407	.040%	98.956%
68.0	10.132	1.030	2245.437	.040%	99.001%
69.0	10.104	1.034	2246.472	.041%	99.047%
70.0	10.048	1.035	2247.507	.041%	99.092%
71.0	10.013	1.038	2248.545	.041%	99.138%
72.0	9.970	1.040	2249.585	.041%	99.184%
73.0	9.956	1.044	2250.629	.041%	99.230%
74.0	9.914	1.045	2251.674	.041%	99.276%
75.0	9.907	1.049	2252.724	.041%	99.322%

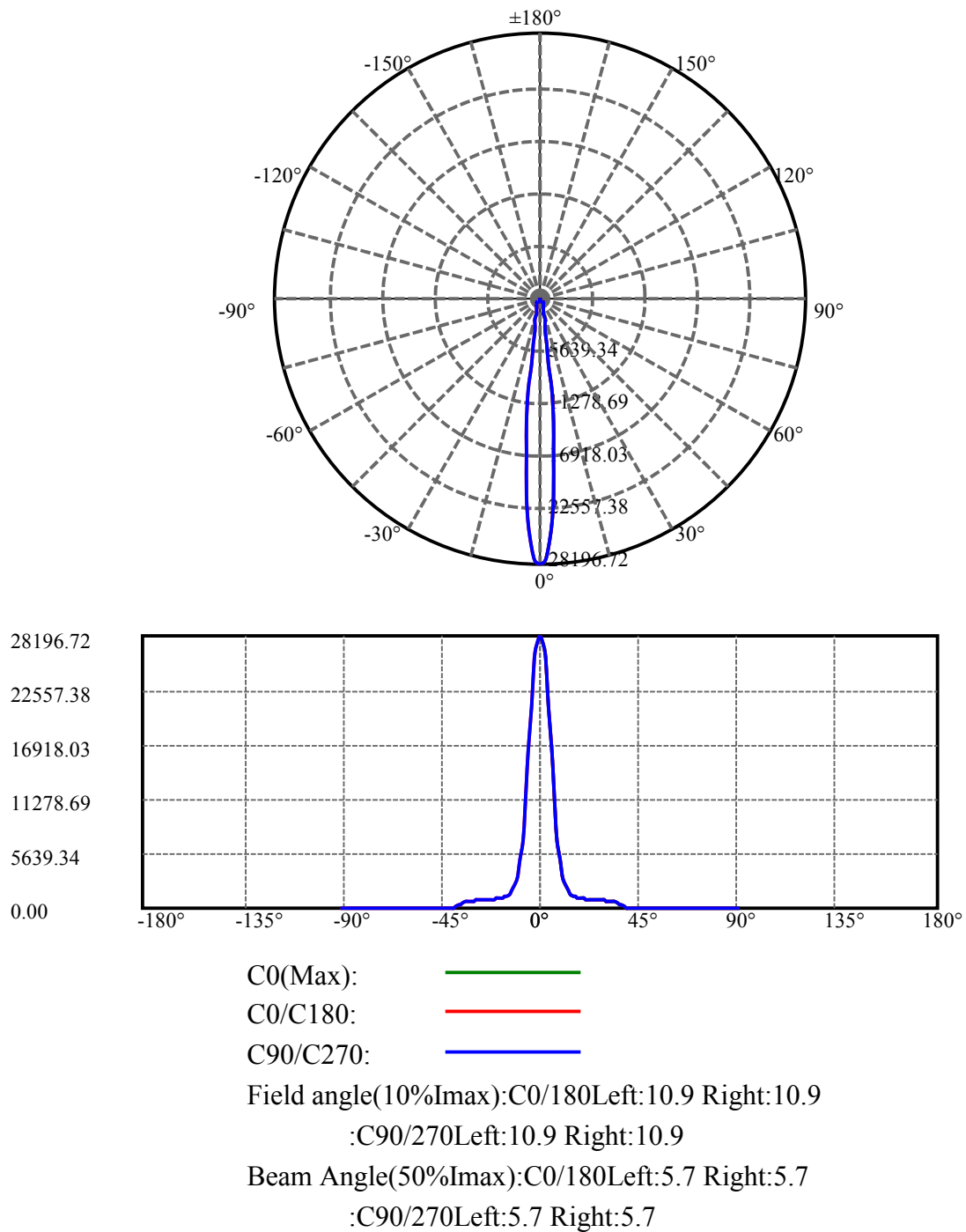
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.879	1.051	2253.775	.041%	99.369%
77.0	9.865	1.054	2254.829	.041%	99.415%
78.0	9.851	1.057	2255.885	.041%	99.462%
79.0	9.823	1.057	2256.943	.042%	99.508%
80.0	9.809	1.059	2258.002	.042%	99.555%
81.0	9.809	1.062	2259.064	.042%	99.602%
82.0	9.788	1.063	2260.127	.042%	99.649%
83.0	9.788	1.065	2261.193	.042%	99.696%
84.0	9.759	1.064	2262.257	.042%	99.743%
85.0	9.745	1.065	2263.322	.042%	99.789%
86.0	9.710	1.062	2264.384	.042%	99.836%
87.0	9.689	1.061	2265.445	.042%	99.883%
88.0	9.682	1.061	2266.506	.042%	99.930%
89.0	9.668	1.060	2267.566	.042%	99.977%
90.0	9.675	0.530	2268.096	.021%	100.000%

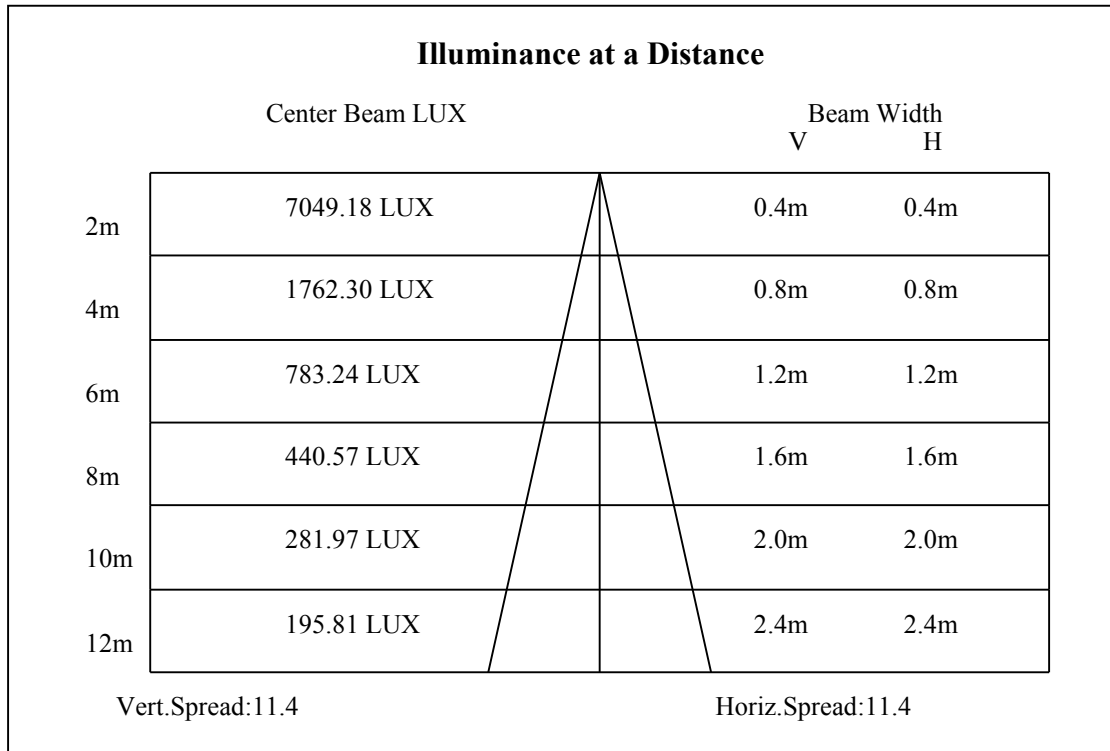
ZONAL LUMEN SUMMARY

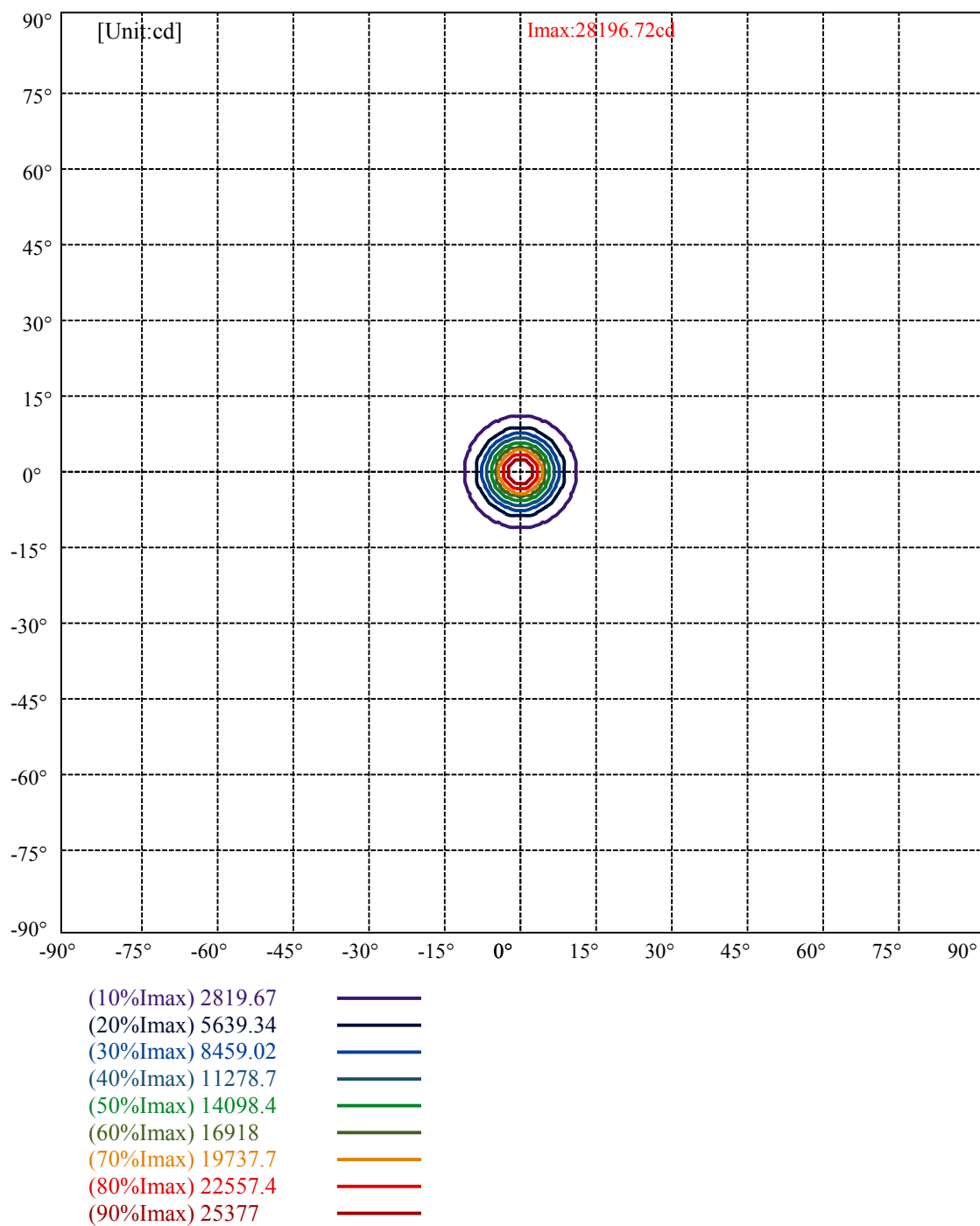
Zone	Lumens	%Lamp	%Fixt
0-30	1953.17	76.69%	86.11%
0-40	2215.43	86.98%	97.68%
0-60	2237.25	87.84%	98.64%
0-90	2267.57	89.03%	99.98%
0-120	2267.57	89.03%	99.98%
0-180	2268.10	89.05%	100.00%
60-90	31.33	1.23%	1.38%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.71	1814.48	71.24%	80.00%

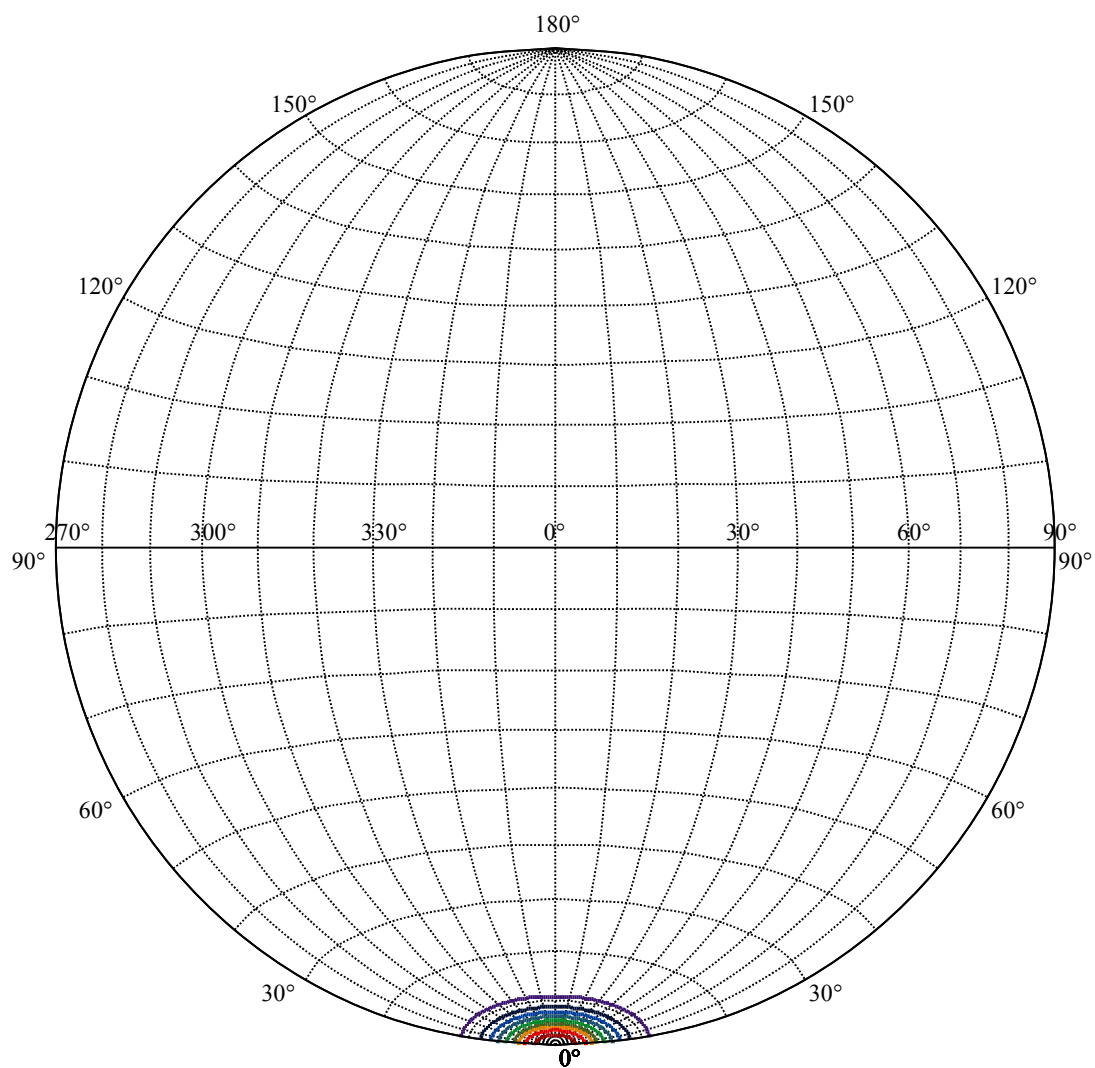
ZONAL LUMEN SUMMARY

0-10	1151.40
10-20	402.98
20-30	398.79
30-40	262.26
40-50	11.71
50-60	10.11
60-70	10.26
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









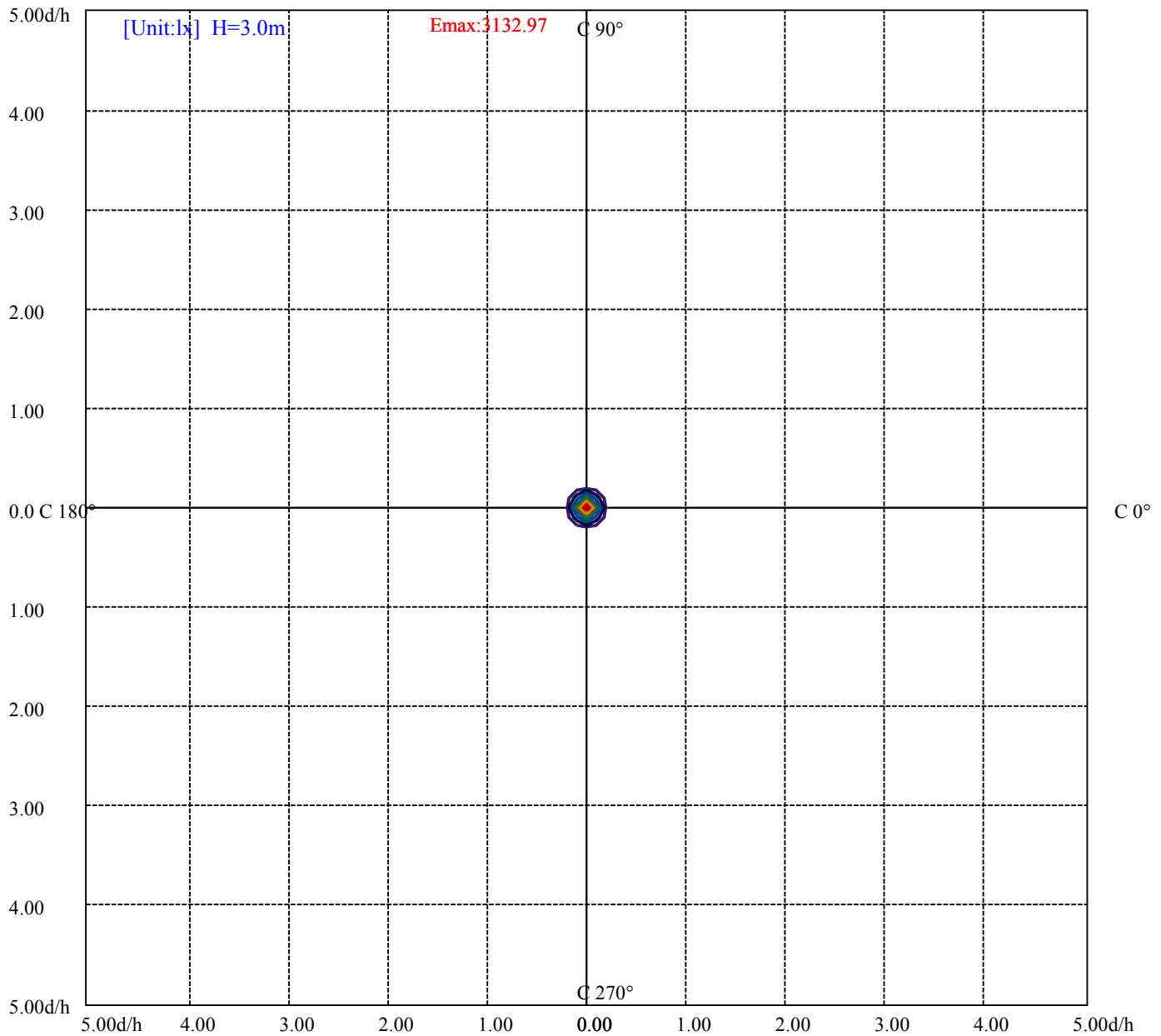
House

[Unit:cd]

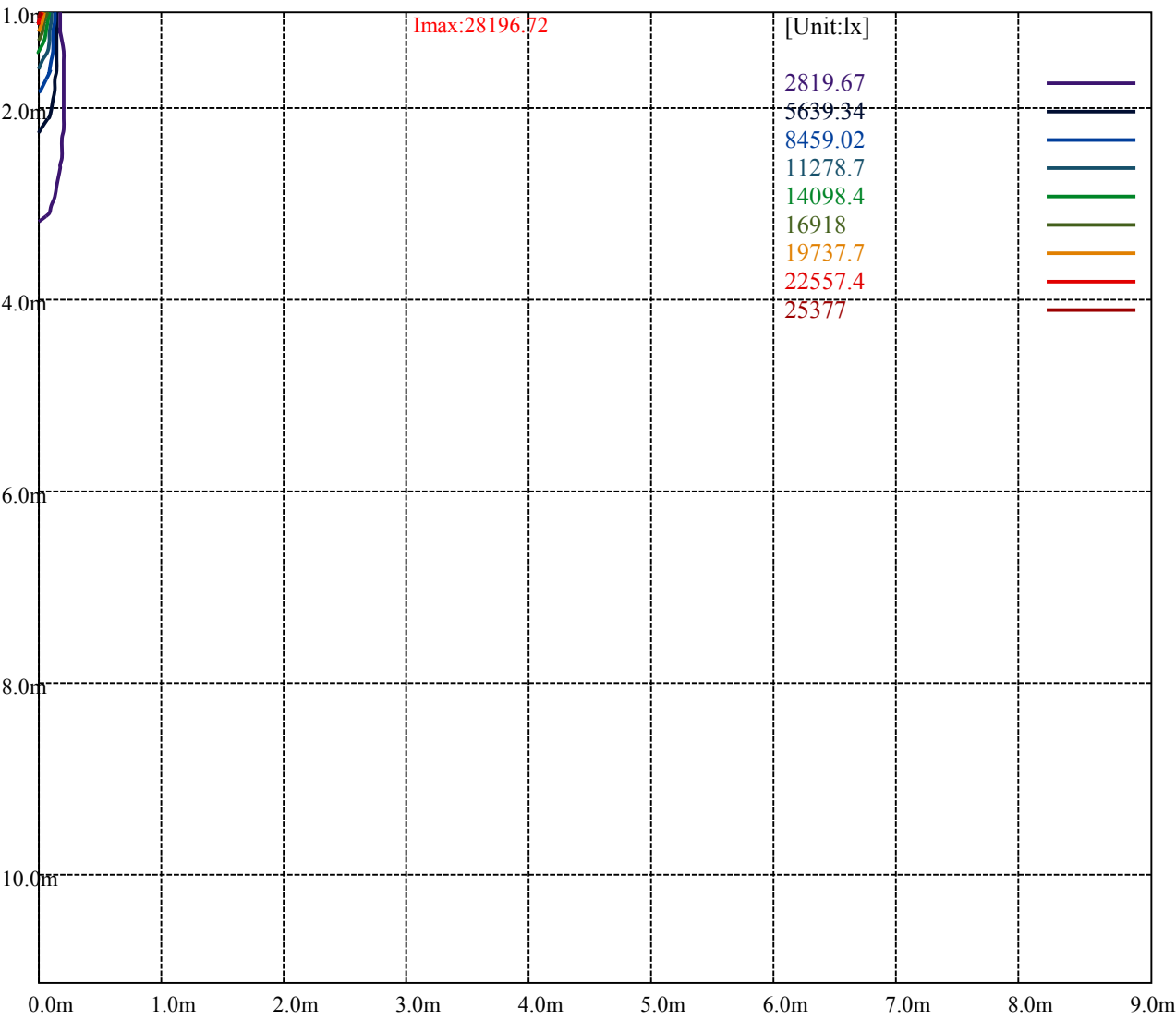
Road

Imax:28196.72

(10%Imax)	2819.67	—
(20%Imax)	5639.34	—
(30%Imax)	8459.02	—
(40%Imax)	11278.7	—
(50%Imax)	14098.4	—
(60%Imax)	16918	—
(70%Imax)	19737.7	—
(80%Imax)	22557.4	—
(90%Imax)	25377	—



(10%Emax)	313.2967	—
(20%Emax)	626.5922	—
(30%Emax)	939.8889	—
(40%Emax)	1253.189	—
(50%Emax)	1566.478	—
(60%Emax)	1879.778	—
(70%Emax)	2193.078	—
(80%Emax)	2506.367	—
(90%Emax)	2819.667	—



Luminance Table

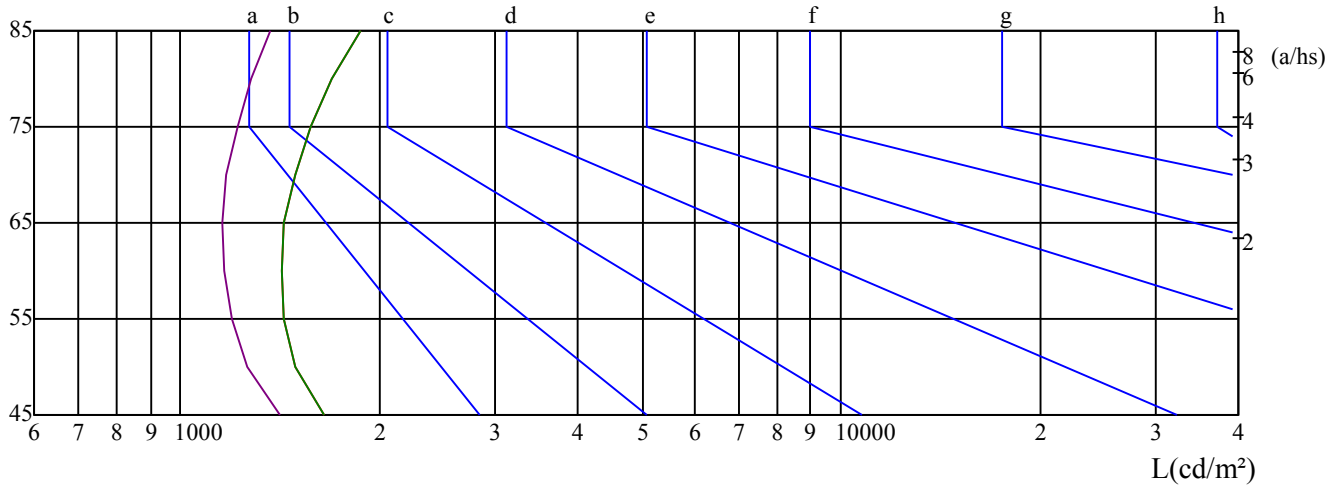
γ	45	50	55	60	65	70	75	80	85
C0	1650	1489	1435	1420	1436	1488	1575	1698	1868
C45	1418	1260	1195	1164	1156	1175	1217	1281	1368
C90	1650	1489	1435	1420	1436	1488	1575	1698	1868

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3452	3452	3452	5425	5425	5425	15847	15847	15847

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

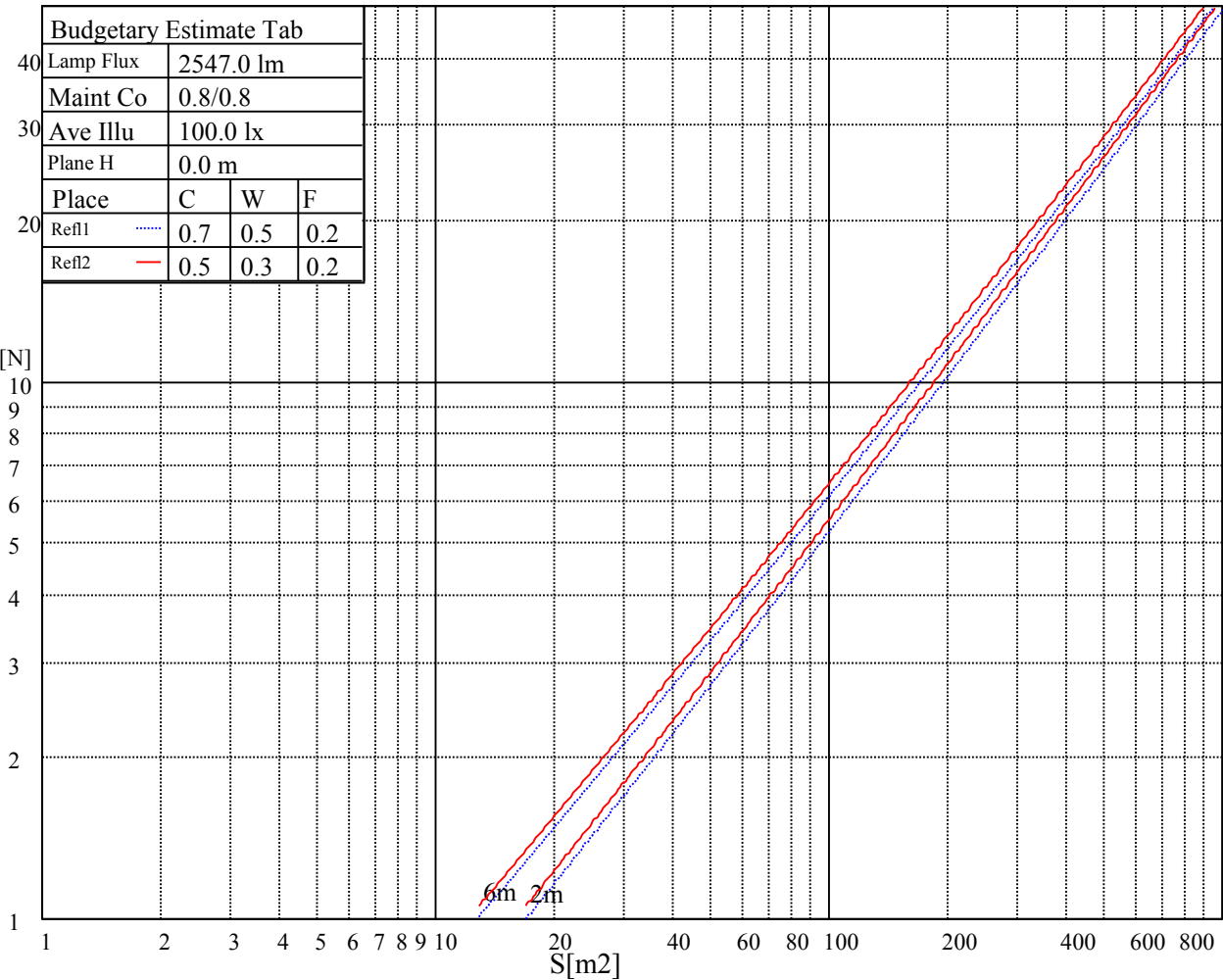
 $\gamma(^{\circ})$ 

C0 ———

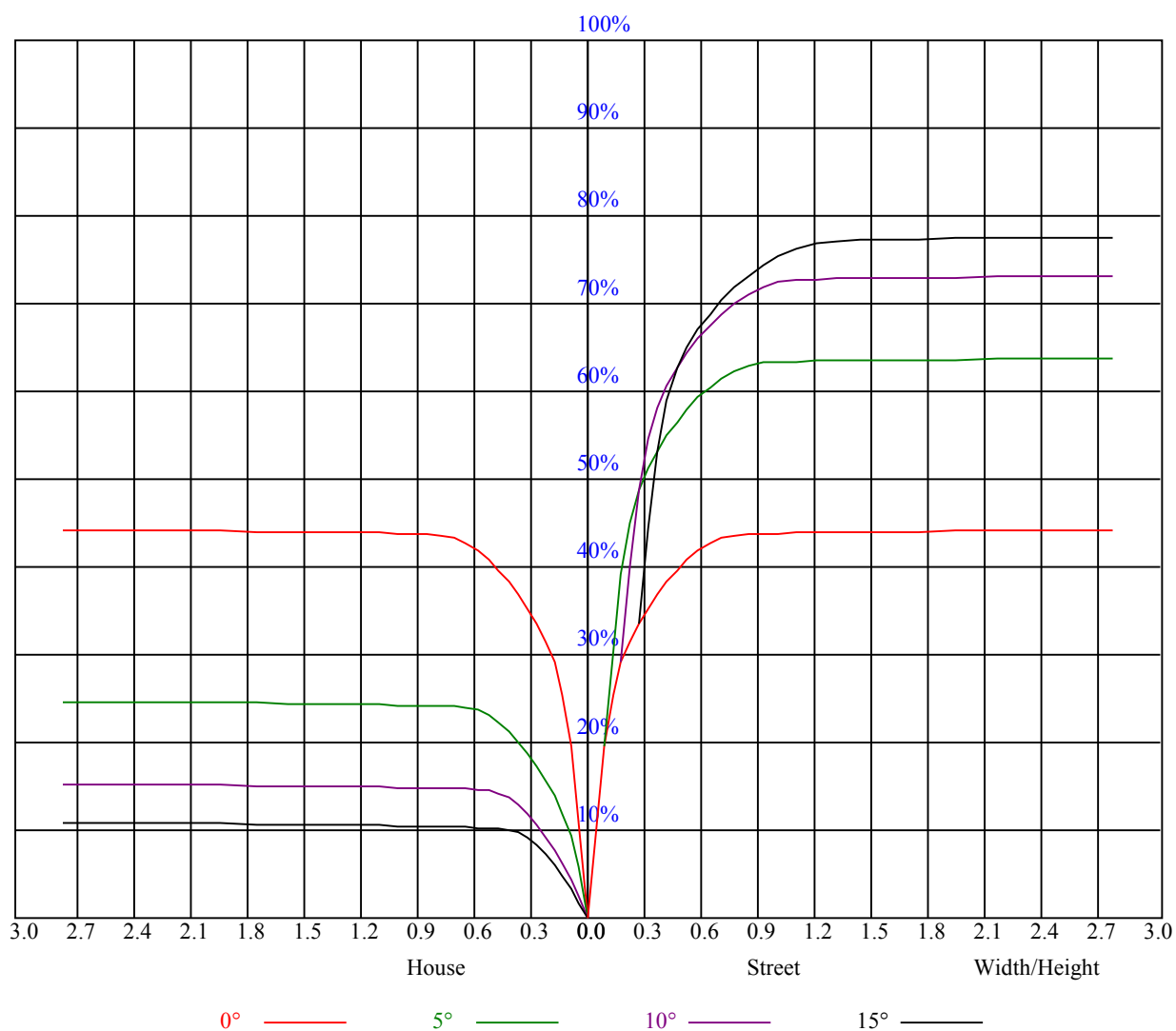
C45 ———

C90 ———

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	-0.37	0.54	0.00	0.85	1.16	-0.40	0.50	-0.04	0.81	1.13
	3H	1.81	2.61	2.20	2.95	3.32	1.80	2.60	2.19	2.94	3.31
	4H	3.03	3.77	3.44	4.13	4.52	3.03	3.77	3.44	4.12	4.51
	6H	4.32	5.00	4.74	5.37	5.77	4.31	4.99	4.73	5.37	5.77
	8H	4.96	5.60	5.40	5.99	6.40	4.96	5.59	5.40	5.99	6.40
	12H	5.96	6.57	6.40	6.95	7.38	5.96	6.56	6.39	6.95	7.38
4H	2H	0.10	0.84	0.51	1.19	1.58	0.07	0.81	0.48	1.16	1.56
	3H	2.58	3.18	2.99	3.59	4.00	2.57	3.18	2.99	3.59	3.99
	4H	3.97	4.51	4.41	4.94	5.39	3.97	4.51	4.41	4.94	5.39
	6H	5.36	5.83	5.84	6.28	6.75	5.36	5.82	5.83	6.28	6.75
	8H	6.12	6.55	6.60	7.00	7.48	6.12	6.55	6.60	7.00	7.48
	12H	7.12	7.49	7.61	7.98	8.45	7.11	7.48	7.61	7.97	8.45
8H	4H	4.40	4.83	4.88	5.28	5.76	4.40	4.83	4.88	5.28	5.76
	6H	6.03	6.37	6.54	6.87	7.36	6.03	6.37	6.54	6.87	7.36
	8H	6.94	7.24	7.48	7.76	8.26	6.94	7.24	7.47	7.76	8.26
	12H	8.07	8.33	8.59	8.83	9.41	8.07	8.33	8.59	8.83	9.41
12H	4H	4.49	4.86	4.98	5.35	5.83	4.48	4.85	4.98	5.34	5.82
	6H	6.39	6.50	6.74	6.97	7.52	6.39	6.50	6.73	6.97	7.52
	8H	7.21	7.46	7.73	7.96	8.54	7.21	7.46	7.73	7.96	8.54
Variation with the observer position at spacings:											
S = 1.0H		6.0/-8.4					6.0/-8.4				
S = 1.5H		8.4/-6.6					8.4/-6.6				
S = 2.0H		10.1/-5.3					10.1/-5.3				
Standard tables:		BK1					BK1				
Uncorrected UGR		-3.5					-3.5				



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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.97	0.98	0.97	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.87	0.85
2	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.86	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	0.84	0.82	0.84	0.82	0.81	0.79
4	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.82	0.80	0.78	0.77
5	0.84	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.76	0.75
6	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	0.79	0.75	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.71
8	0.77	0.73	0.71	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.70	0.69
9	0.75	0.71	0.69	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67
10	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.71	0.68	0.66	0.66



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	28282.50	27590.63	25498.13	22798.13	19406.25	14945.63	11542.50	8550.00	5951.25
45.0	28085.63	28395.00	27759.38	26370.00	23715.00	20553.75	16593.75	12622.50	9388.13
90.0	28355.63	28209.38	27343.13	24980.63	22106.25	18691.88	13246.88	10686.38	7698.94
135.0	28063.13	28406.25	27826.88	26386.88	24311.25	19867.50	16301.25	13145.63	9016.88
180.0	28282.50	28305.00	27416.25	25357.50	22516.88	18630.00	15013.13	11021.06	7614.56
225.0	28085.63	26966.25	24901.88	21082.50	17493.75	10870.31	9689.63	6953.63	4946.63
270.0	28355.63	27658.13	25886.25	23231.25	19383.75	15311.25	11863.13	8426.25	6063.75
315.0	28063.13	26949.38	24682.50	21341.25	17831.25	10886.06	10490.63	7380.00	5327.44
360.0	28282.50	27590.63	25498.13	22798.13	19406.25	14945.63	11542.50	8550.00	5951.25
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4196.25	3150.00	2857.50	1936.13	1594.13	1368.56	1231.88	1132.88	1066.50
45.0	6485.63	4483.13	3301.88	2874.38	1933.31	1624.50	1413.00	1270.69	1152.00
90.0	5232.94	3623.06	2747.81	2128.50	1768.50	1500.75	1324.69	1216.69	1122.24
135.0	6170.63	4606.88	3138.75	2925.00	1915.31	1593.56	1400.63	1257.75	1166.06
180.0	5375.25	3710.81	2712.94	2152.69	1777.50	1475.44	1319.63	1211.63	1115.16
225.0	3356.44	2589.75	2081.25	1674.56	1458.00	1310.06	1164.94	1117.46	1069.88
270.0	4224.38	3060.00	2868.75	1949.63	1643.63	1383.75	1245.38	1150.31	1076.06
315.0	3777.19	2782.69	2199.38	1765.13	1505.81	1310.63	1113.08	1095.75	1041.19
360.0	4196.25	3150.00	2857.50	1936.13	1594.13	1368.56	1231.88	1132.88	1066.50
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1026.56	985.50	951.19	928.13	904.50	878.63	863.44	848.25	833.06
45.0	1089.00	1041.75	1000.69	970.31	941.63	911.81	882.00	865.13	845.44
90.0	1073.93	1032.53	994.95	956.70	923.46	896.63	871.76	849.54	837.45
135.0	1110.38	1067.63	1020.94	986.63	954.56	912.94	884.25	864.00	847.13
180.0	1075.61	1036.86	998.66	962.83	934.54	907.65	880.93	861.92	844.31
225.0	1028.42	989.44	957.21	925.82	896.46	871.31	852.36	837.90	819.17
270.0	1031.63	995.63	958.50	932.63	905.06	878.63	859.50	844.31	831.38
315.0	991.29	960.53	934.59	903.66	884.03	866.08	848.81	833.51	820.74
360.0	1026.56	985.50	951.19	928.13	904.50	878.63	863.44	848.25	833.06
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	817.88	806.63	794.81	782.44	770.63	756.56	705.38	600.75	474.19
45.0	833.06	813.94	803.81	793.69	780.75	769.50	757.69	706.50	599.06
90.0	821.48	809.38	795.94	784.18	773.04	759.94	727.26	650.42	546.36
135.0	830.25	816.19	803.81	793.69	780.75	767.25	754.88	691.31	586.69
180.0	826.65	813.26	799.88	786.99	775.01	762.75	736.31	663.75	564.53
225.0	807.36	792.11	782.21	769.73	759.15	722.93	643.33	525.49	389.42
270.0	815.06	803.25	793.13	779.06	768.94	754.88	707.06	603.56	479.25
315.0	805.28	796.39	784.74	771.86	763.09	738.96	659.42	557.49	441.51
360.0	817.88	806.63	794.81	782.44	770.63	756.56	705.38	600.75	474.19
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	358.31	286.88	123.98	43.76	26.94	24.98	20.87	17.72	15.13
45.0	490.50	374.63	285.19	129.26	57.77	24.69	22.39	20.03	16.82
90.0	405.51	293.12	186.02	74.25	25.82	21.38	19.35	16.82	15.19
135.0	477.56	360.00	284.06	117.28	49.05	22.89	20.64	18.51	16.48
180.0	424.18	310.05	199.58	82.35	30.54	23.12	20.76	17.78	15.53
225.0	272.31	155.14	73.07	26.38	23.23	20.76	17.21	14.79	13.33
270.0	362.25	289.69	113.74	44.83	25.54	22.84	19.74	16.88	15.08
315.0	292.16	185.06	93.71	30.38	25.93	23.46	19.41	16.82	13.44
360.0	358.31	286.88	123.98	43.76	26.94	24.98	20.87	17.72	15.13

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	13.22	12.83	12.60	12.32	12.09	11.93	11.70	11.59	11.42
45.0	14.91	13.11	12.83	12.54	12.38	12.15	11.98	11.81	11.64
90.0	13.44	12.94	12.66	12.43	12.21	12.04	11.93	11.76	11.59
135.0	14.34	13.28	13.05	12.83	12.54	12.38	12.21	11.98	11.81
180.0	13.89	13.05	12.83	12.54	12.32	12.09	11.93	11.76	11.53
225.0	12.99	12.71	12.43	12.21	12.04	11.81	11.70	11.48	11.36
270.0	13.22	12.94	12.60	12.38	12.15	11.93	11.76	11.64	11.42
315.0	12.99	12.77	12.49	12.21	12.04	11.87	11.64	11.53	11.36
360.0	13.22	12.83	12.60	12.32	12.09	11.93	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	11.25	11.14	11.03	10.91	10.80	10.69	10.63	10.52	10.46
45.0	11.48	11.36	11.19	11.03	10.97	10.86	10.74	10.69	10.58
90.0	11.42	11.25	11.14	11.03	10.91	10.80	10.74	10.63	10.58
135.0	11.64	11.53	11.36	11.25	11.14	11.03	10.86	10.80	10.69
180.0	11.36	11.25	11.14	10.97	10.91	10.80	10.69	10.63	10.52
225.0	11.25	11.08	10.97	10.86	10.80	10.69	10.63	10.52	10.46
270.0	11.31	11.19	11.08	10.97	10.86	10.74	10.69	10.58	10.52
315.0	11.19	11.08	10.97	10.86	10.74	10.69	10.58	10.52	10.46
360.0	11.25	11.14	11.03	10.91	10.80	10.69	10.63	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	10.29	10.24	10.18	10.18	10.13	10.07	10.01	10.01
45.0	10.52	10.46	10.35	10.29	10.24	10.18	10.18	10.13	10.07
90.0	10.46	10.41	10.29	10.24	10.18	10.13	10.07	10.01	10.01
135.0	10.58	10.46	10.41	10.29	10.24	10.18	10.13	10.07	10.01
180.0	10.46	10.41	10.29	10.24	10.18	10.13	10.13	10.07	10.01
225.0	10.35	10.29	10.29	10.24	10.13	10.13	10.07	10.01	10.01
270.0	10.41	10.35	10.24	10.18	10.18	10.13	10.13	10.07	10.01
315.0	10.35	10.29	10.24	10.18	10.13	10.07	10.07	10.01	9.96
360.0	10.41	10.29	10.24	10.18	10.18	10.13	10.07	10.01	10.01
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.96	9.96	9.90	9.90	9.84	9.84	9.84	9.84	9.79
45.0	10.07	10.01	10.01	10.01	9.96	9.96	9.96	9.90	9.90
90.0	9.96	9.96	9.90	9.90	9.84	9.84	9.79	9.79	9.79
135.0	10.01	9.96	9.90	9.90	9.90	9.84	9.84	9.79	9.79
180.0	9.96	9.96	9.90	9.90	9.90	9.84	9.84	9.79	9.79
225.0	9.96	9.96	9.90	9.90	9.90	9.90	9.90	9.84	9.84
270.0	9.96	9.96	9.90	9.90	9.84	9.84	9.84	9.84	9.79
315.0	9.90	9.90	9.90	9.84	9.84	9.84	9.79	9.79	9.79
360.0	9.96	9.96	9.90	9.90	9.84	9.84	9.84	9.84	9.79
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	9.73	9.73	9.73	9.73	9.68	9.68	9.68
45.0	9.90	9.90	9.90	9.96	9.96	9.79	9.73	9.68	9.68
90.0	9.79	9.73	9.79	9.73	9.73	9.68	9.68	9.68	9.62
135.0	9.79	9.79	9.79	9.73	9.73	9.73	9.73	9.73	9.68
180.0	9.79	9.73	9.73	9.68	9.68	9.68	9.68	9.68	9.68
225.0	9.84	9.84	9.90	9.79	9.73	9.68	9.68	9.68	9.68
270.0	9.79	9.79	9.73	9.73	9.73	9.68	9.68	9.68	9.68
315.0	9.79	9.73	9.73	9.73	9.68	9.73	9.68	9.68	9.68
360.0	9.79	9.79	9.73	9.73	9.73	9.73	9.68	9.68	9.68

Intensity data(cd)

Appendix Page: 19 Total:19

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