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Nata

LumCAT: 2-1120-A3

Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100

Voltage(V): 34.5000

Test No: GC2018082813

Current(A): 0.5000

LampCAT: SAMSUNG LC026D

Power (W): 17.2500

Lamp flux(lm): 2486.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 71

Width(mm): 71

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2281.04

Efficiency(%): 91.76%

Lumens(lm)/Power(W): 132.39

Central intensity(cd): 11467.560

Maximum intensity(cd): 11467.560

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.2

[C90/270]Total=18.2

Field angle(10%Imax): [C0/180]Total=42.1

[C90/270]Total=42.1

Maximum s/h(1/2): C0_180=0.31 C90_270=0.31

Maximum s/h(1/4): C0_180=0.31 C90_270=0.31

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.86%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.531%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11467.560	2.744	2.744	.110%	.120%
1.0	11346.298	21.715	24.459	.873%	1.072%
2.0	11196.958	42.852	67.311	1.724%	2.951%
3.0	10841.431	62.221	129.532	2.503%	5.679%
4.0	10367.120	79.304	208.836	3.190%	9.155%
5.0	9697.428	92.684	301.52	3.728%	13.219%
6.0	8888.305	101.884	403.403	4.098%	17.685%
7.0	7845.812	104.854	508.257	4.218%	22.282%
8.0	6893.956	105.214	613.472	4.232%	26.894%
9.0	5851.050	100.373	713.845	4.038%	31.295%
10.0	4824.042	91.861	805.706	3.695%	35.322%
11.0	4033.432	84.397	890.103	3.395%	39.022%
12.0	3360.780	76.625	966.728	3.082%	42.381%
13.0	2794.525	68.936	1035.664	2.773%	45.403%
14.0	2321.040	61.576	1097.24	2.477%	48.103%
15.0	2068.125	58.698	1155.938	2.361%	50.676%
16.0	1727.188	52.207	1208.145	2.100%	52.965%
17.0	1550.388	49.708	1257.853	2.000%	55.144%
18.0	1408.205	47.720	1305.573	1.920%	57.236%
19.0	1287.983	45.984	1351.557	1.850%	59.252%
20.0	1208.020	45.308	1396.865	1.823%	61.238%
21.0	1148.779	45.146	1442.011	1.816%	63.217%
22.0	1094.501	44.962	1486.973	1.809%	65.189%
23.0	1060.372	45.435	1532.408	1.828%	67.180%
24.0	1030.078	45.945	1578.352	1.848%	69.195%
25.0	999.673	46.330	1624.682	1.864%	71.226%
26.0	976.590	46.947	1671.629	1.888%	73.284%
27.0	952.531	47.422	1719.05	1.908%	75.363%
28.0	924.844	47.613	1766.664	1.915%	77.450%
29.0	901.831	47.946	1814.609	1.929%	79.552%
30.0	877.269	48.101	1862.71	1.935%	81.661%
31.0	839.803	47.432	1910.142	1.908%	83.740%
32.0	797.389	46.337	1956.479	1.864%	85.772%
33.0	746.702	44.597	2001.077	1.794%	87.727%
34.0	676.877	41.507	2042.584	1.670%	89.546%
35.0	606.522	38.150	2080.733	1.535%	91.219%
36.0	529.058	34.101	2114.835	1.372%	92.714%
37.0	447.925	29.561	2144.396	1.189%	94.010%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	366.958	24.775	2169.171	.997%	95.096%
39.0	295.102	20.366	2189.536	.819%	95.989%
40.0	219.854	15.497	2205.034	.623%	96.668%
41.0	160.661	11.559	2216.592	.465%	97.175%
42.0	101.228	7.428	2224.02	.299%	97.500%
43.0	60.562	4.529	2228.549	.182%	97.699%
44.0	38.127	2.904	2231.454	.117%	97.826%
45.0	24.968	1.936	2233.39	.078%	97.911%
46.0	19.359	1.527	2234.917	.061%	97.978%
47.0	16.090	1.290	2236.207	.052%	98.035%
48.0	14.624	1.192	2237.399	.048%	98.087%
49.0	13.702	1.134	2238.533	.046%	98.137%
50.0	13.110	1.101	2239.635	.044%	98.185%
51.0	12.725	1.084	2240.719	.044%	98.233%
52.0	12.422	1.073	2241.792	.043%	98.280%
53.0	12.154	1.064	2242.857	.043%	98.326%
54.0	11.933	1.059	2243.916	.043%	98.373%
55.0	11.699	1.051	2244.966	.042%	98.419%
56.0	11.500	1.045	2246.012	.042%	98.465%
57.0	11.321	1.041	2247.053	.042%	98.510%
58.0	11.135	1.036	2248.089	.042%	98.556%
59.0	10.977	1.032	2249.12	.042%	98.601%
60.0	10.846	1.030	2250.151	.041%	98.646%
61.0	10.729	1.029	2251.18	.041%	98.691%
62.0	10.633	1.030	2252.209	.041%	98.736%
63.0	10.530	1.029	2253.238	.041%	98.781%
64.0	10.461	1.031	2254.269	.041%	98.827%
65.0	10.364	1.030	2255.299	.041%	98.872%
66.0	10.296	1.031	2256.33	.041%	98.917%
67.0	10.247	1.034	2257.365	.042%	98.962%
68.0	10.185	1.036	2258.4	.042%	99.008%
69.0	10.130	1.037	2259.438	.042%	99.053%
70.0	10.082	1.039	2260.477	.042%	99.099%
71.0	10.020	1.039	2261.516	.042%	99.144%
72.0	9.979	1.041	2262.556	.042%	99.190%
73.0	9.951	1.044	2263.6	.042%	99.236%
74.0	9.910	1.045	2264.645	.042%	99.281%
75.0	9.883	1.047	2265.691	.042%	99.327%

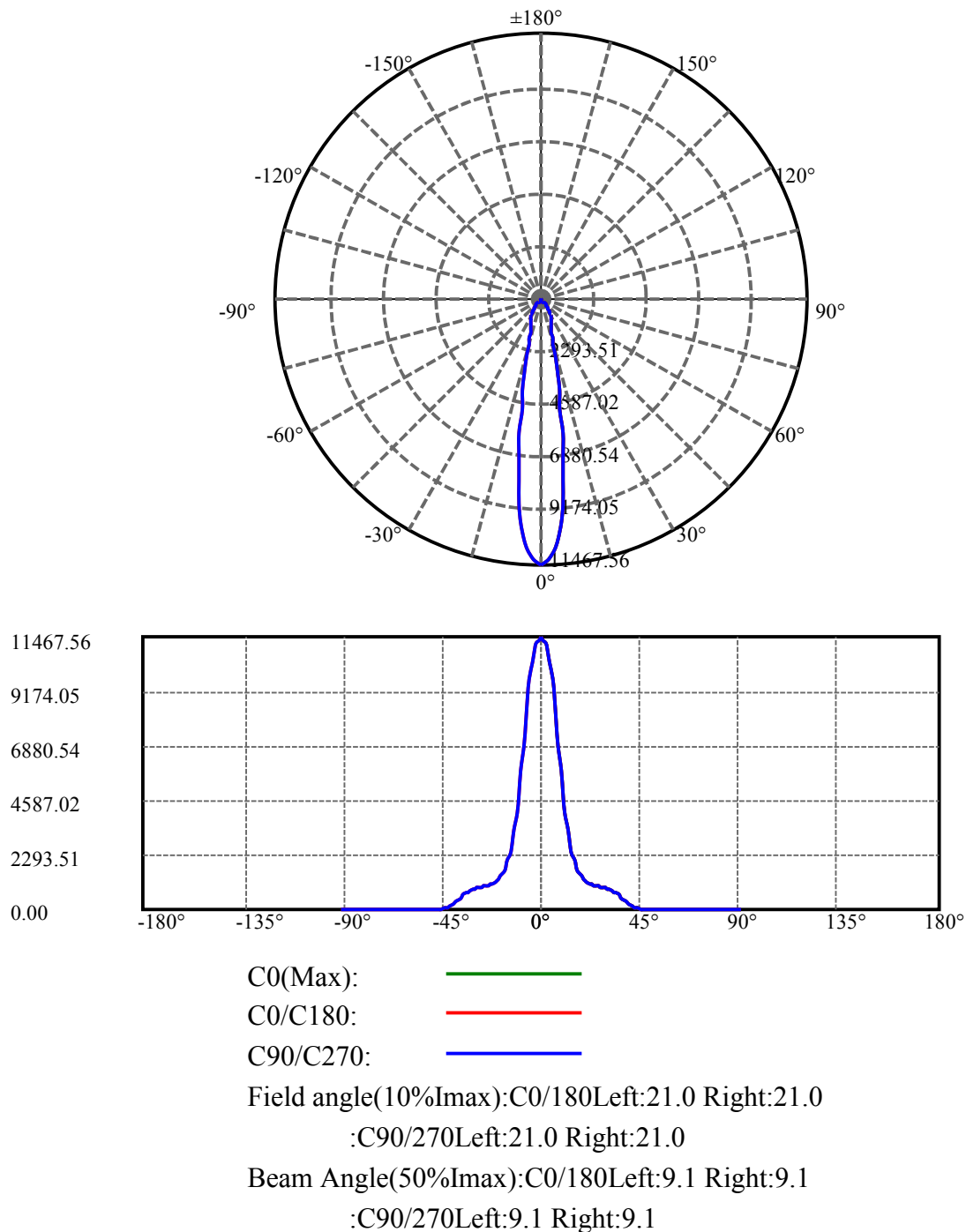
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.841	1.047	2266.738	.042%	99.373%
77.0	9.821	1.049	2267.788	.042%	99.419%
78.0	9.807	1.052	2268.84	.042%	99.465%
79.0	9.773	1.052	2269.892	.042%	99.511%
80.0	9.766	1.055	2270.946	.042%	99.558%
81.0	9.731	1.054	2272	.042%	99.604%
82.0	9.752	1.059	2273.059	.043%	99.650%
83.0	9.779	1.064	2274.124	.043%	99.697%
84.0	9.814	1.070	2275.194	.043%	99.744%
85.0	9.869	1.078	2276.272	.043%	99.791%
86.0	9.903	1.083	2277.356	.044%	99.839%
87.0	9.621	1.054	2278.409	.042%	99.885%
88.0	9.594	1.051	2279.461	.042%	99.931%
89.0	9.573	1.050	2280.51	.042%	99.977%
90.0	9.580	0.525	2281.035	.021%	100.000%

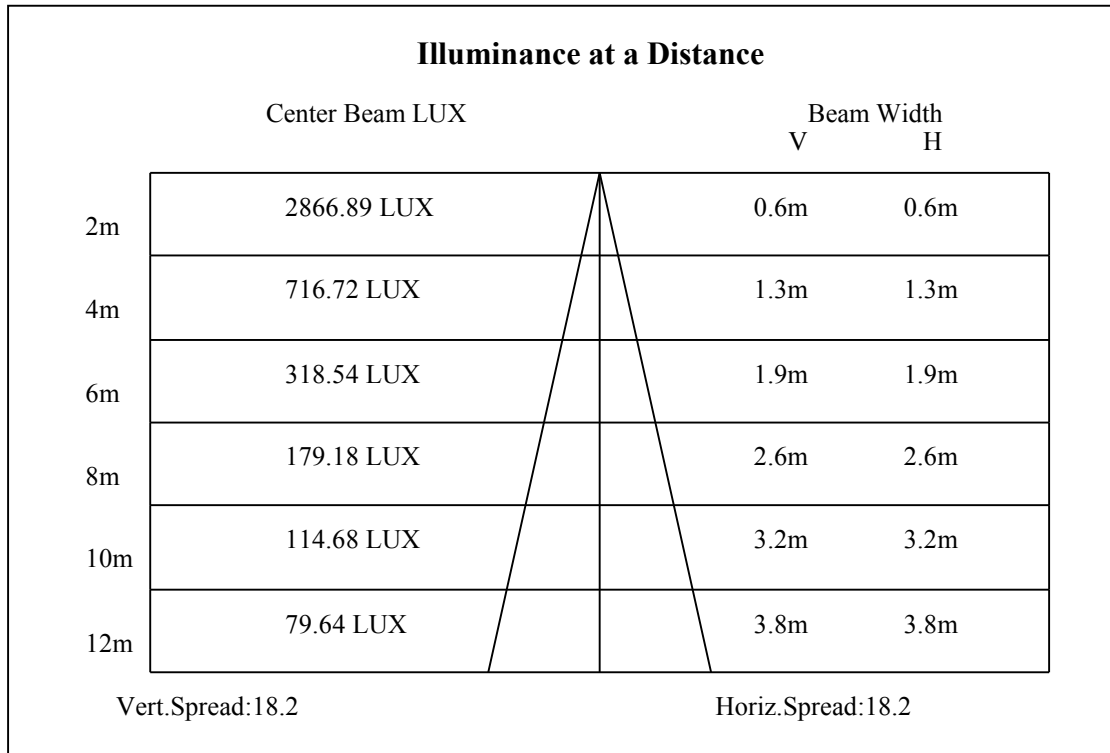
ZONAL LUMEN SUMMARY

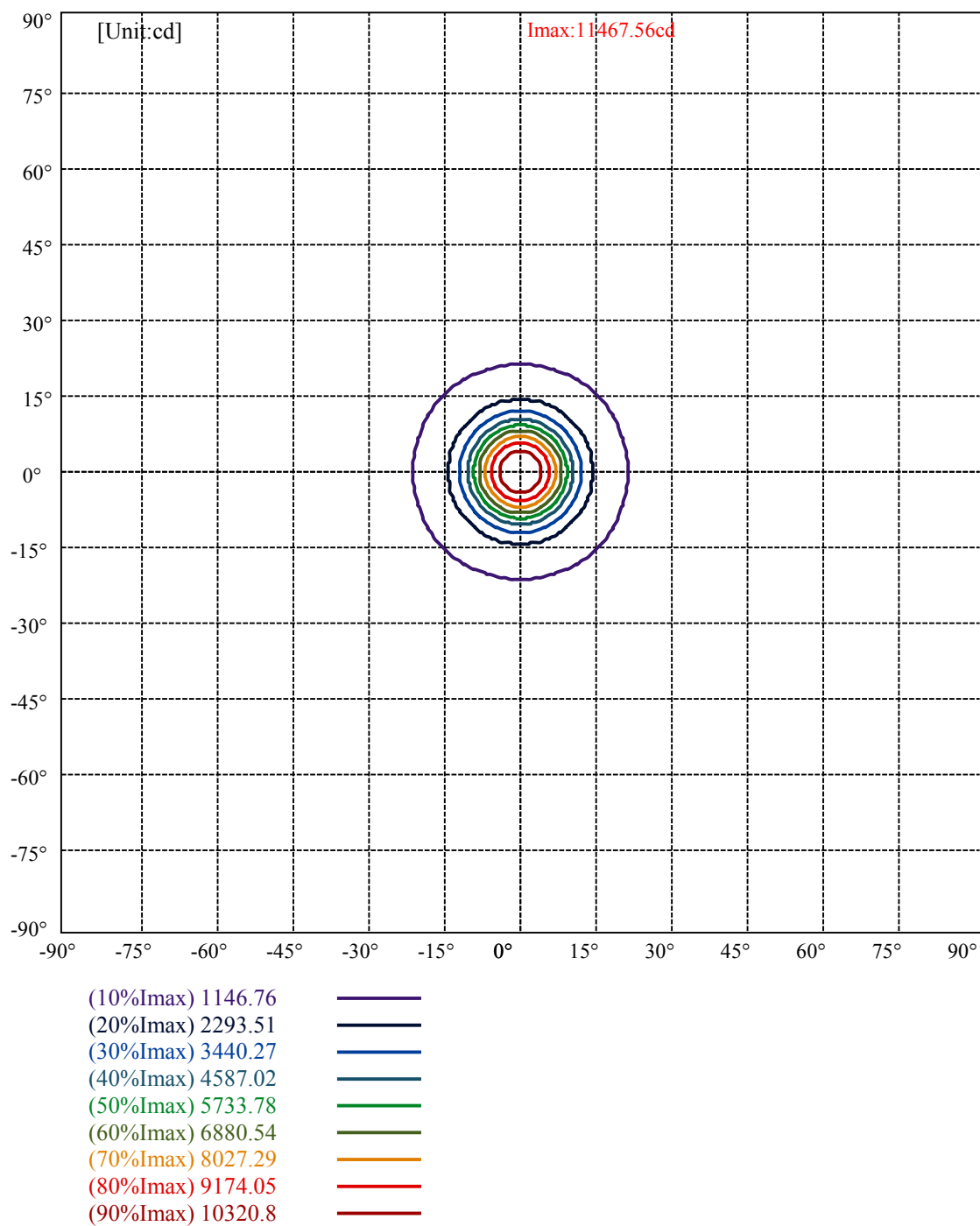
Zone	Lumens	%Lamp	%Fixt
0-30	1862.71	74.93%	81.66%
0-40	2205.03	88.70%	96.67%
0-60	2250.15	90.51%	98.65%
0-90	2280.51	91.73%	99.98%
0-120	2280.51	91.73%	99.98%
0-180	2281.04	91.76%	100.00%
60-90	31.39	1.26%	1.38%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.21	1824.83	73.40%	80.00%

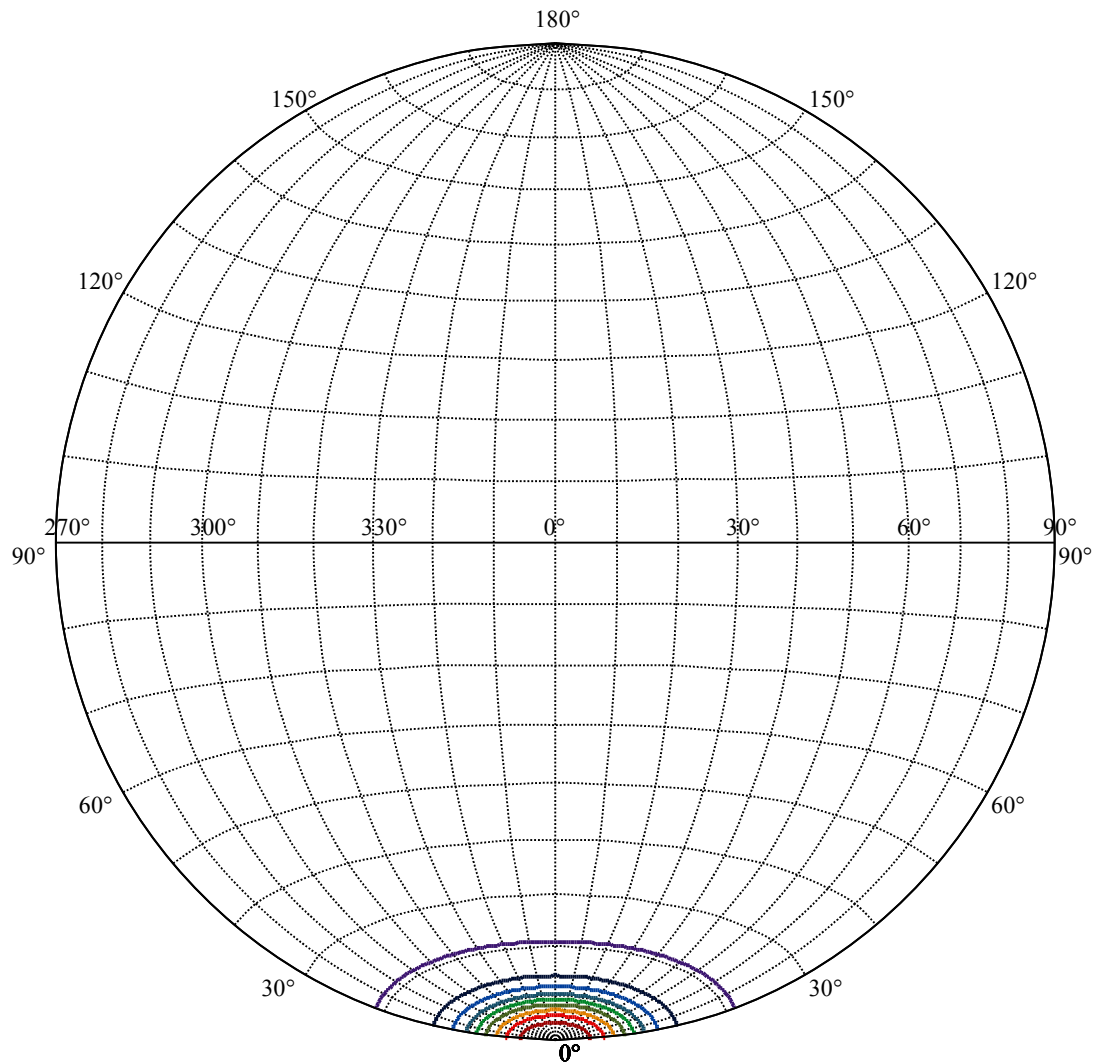
ZONAL LUMEN SUMMARY

0-10	805.71
10-20	591.16
20-30	465.85
30-40	342.32
40-50	34.60
50-60	10.52
60-70	10.33
70-80	10.47
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









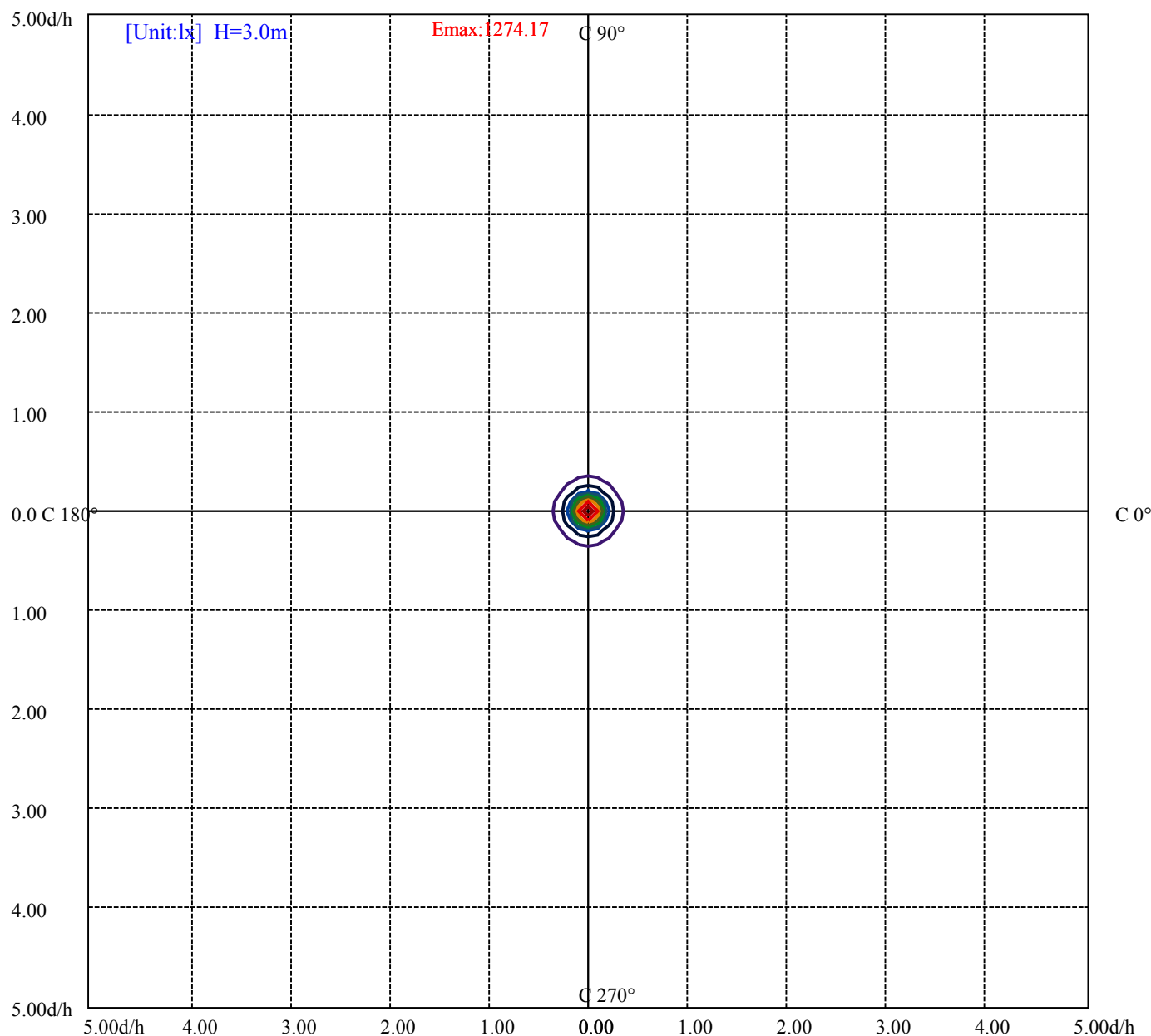
House

[Unit:cd]

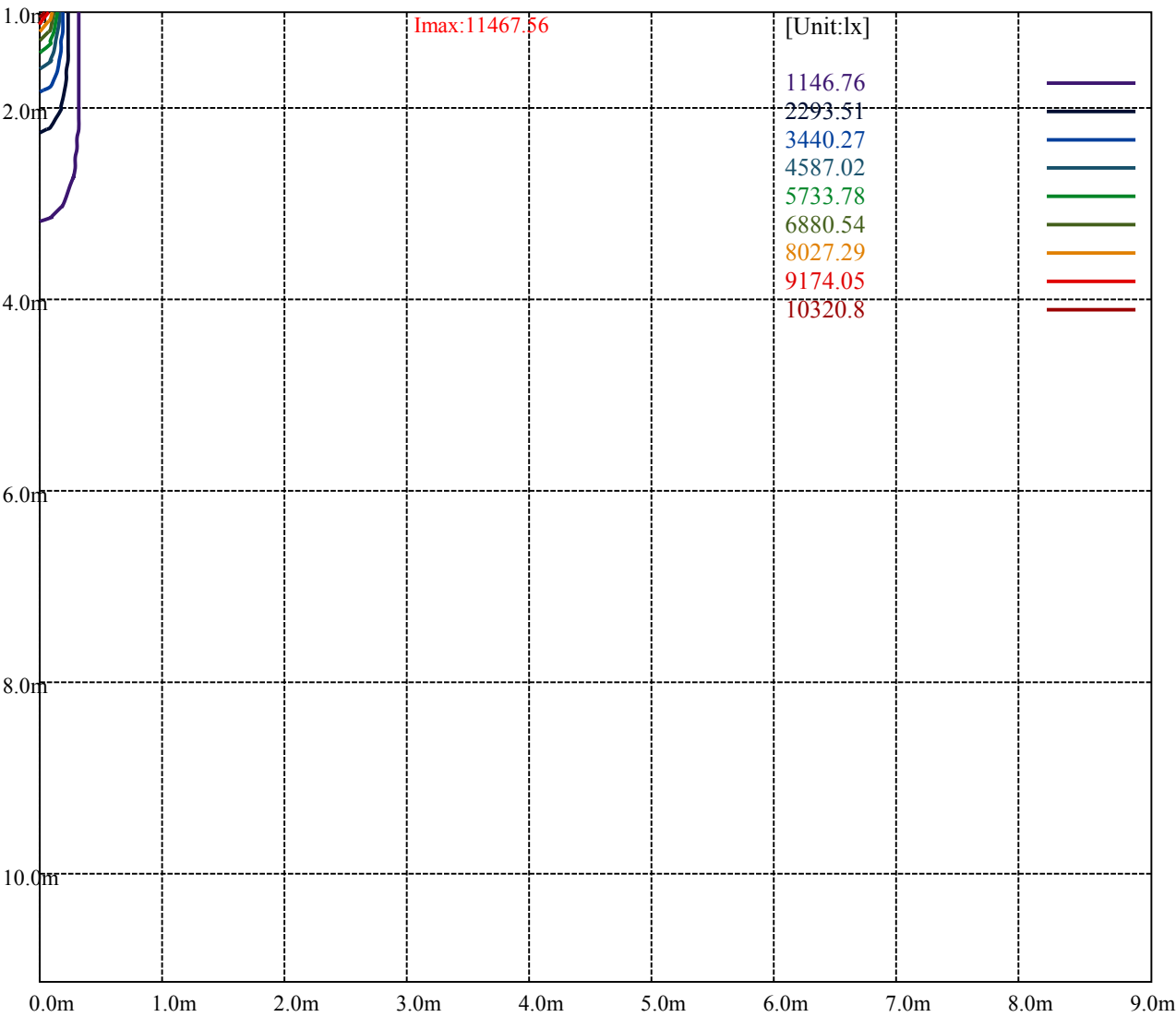
Road

Imax:11467.56

(10%Imax)	1146.76	—
(20%Imax)	2293.51	—
(30%Imax)	3440.27	—
(40%Imax)	4587.02	—
(50%Imax)	5733.78	—
(60%Imax)	6880.54	—
(70%Imax)	8027.29	—
(80%Imax)	9174.05	—
(90%Imax)	10320.8	—



(10%Emax)	127.4167	—
(20%Emax)	254.8344	—
(30%Emax)	382.2511	—
(40%Emax)	509.6689	—
(50%Emax)	637.0856	—
(60%Emax)	764.5033	—
(70%Emax)	891.92	—
(80%Emax)	1019.337	—
(90%Emax)	1146.755	—



Luminance Table

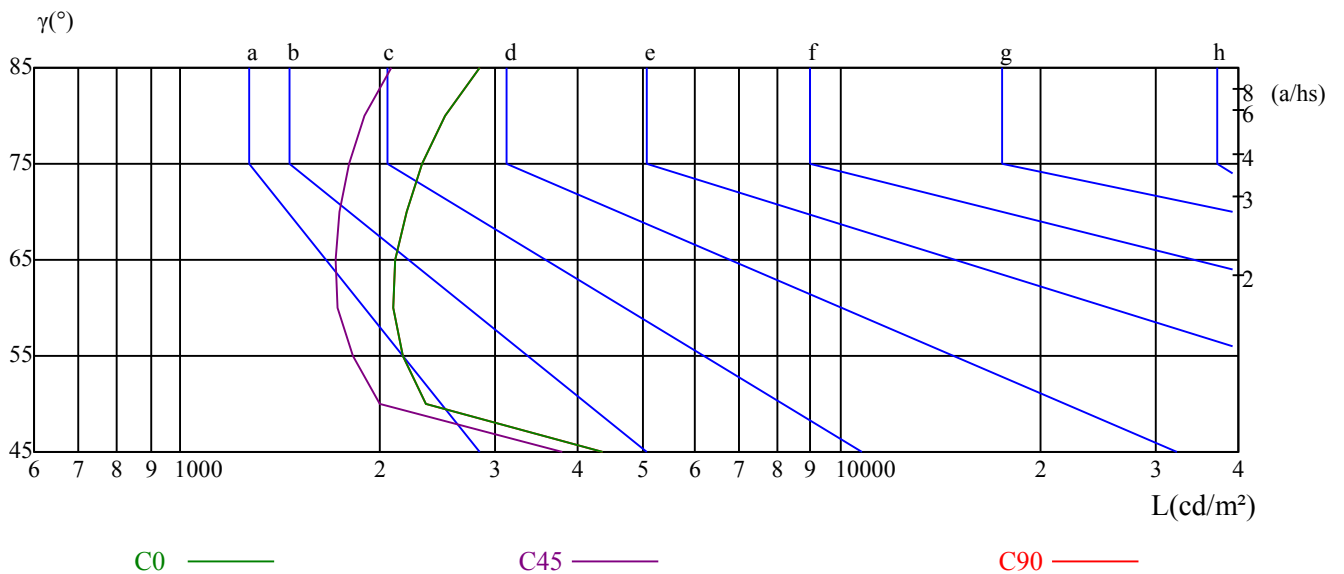
γ	45	50	55	60	65	70	75	80	85
C0	4363	2350	2170	2100	2116	2195	2323	2516	2835
C45	3773	2002	1820	1733	1715	1744	1805	1905	2082
C90	4363	2350	2170	2100	2116	2195	2323	2516	2835

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4865	4865	4865	7575	7575	7575	22462	22462	22462

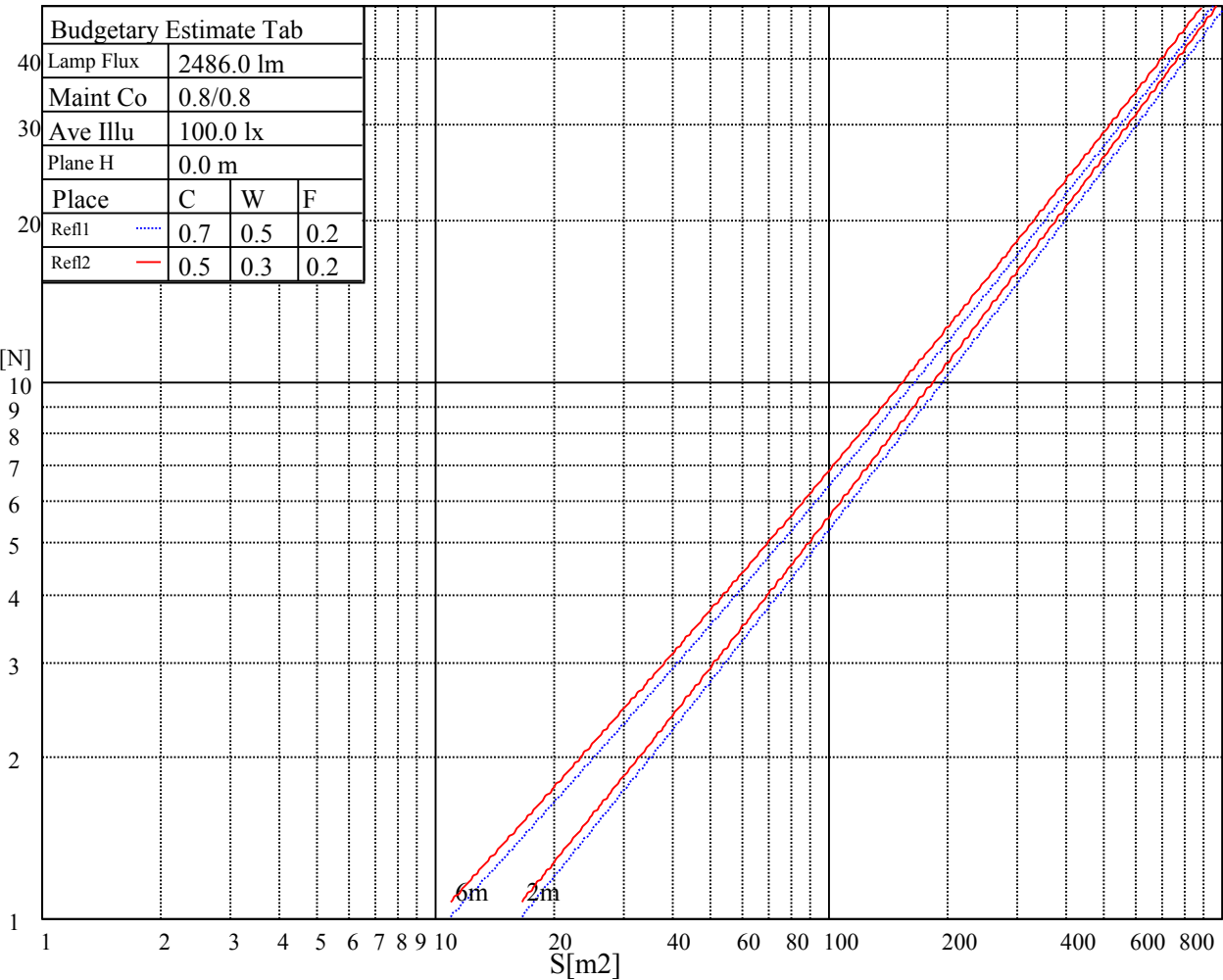
Glare Table

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

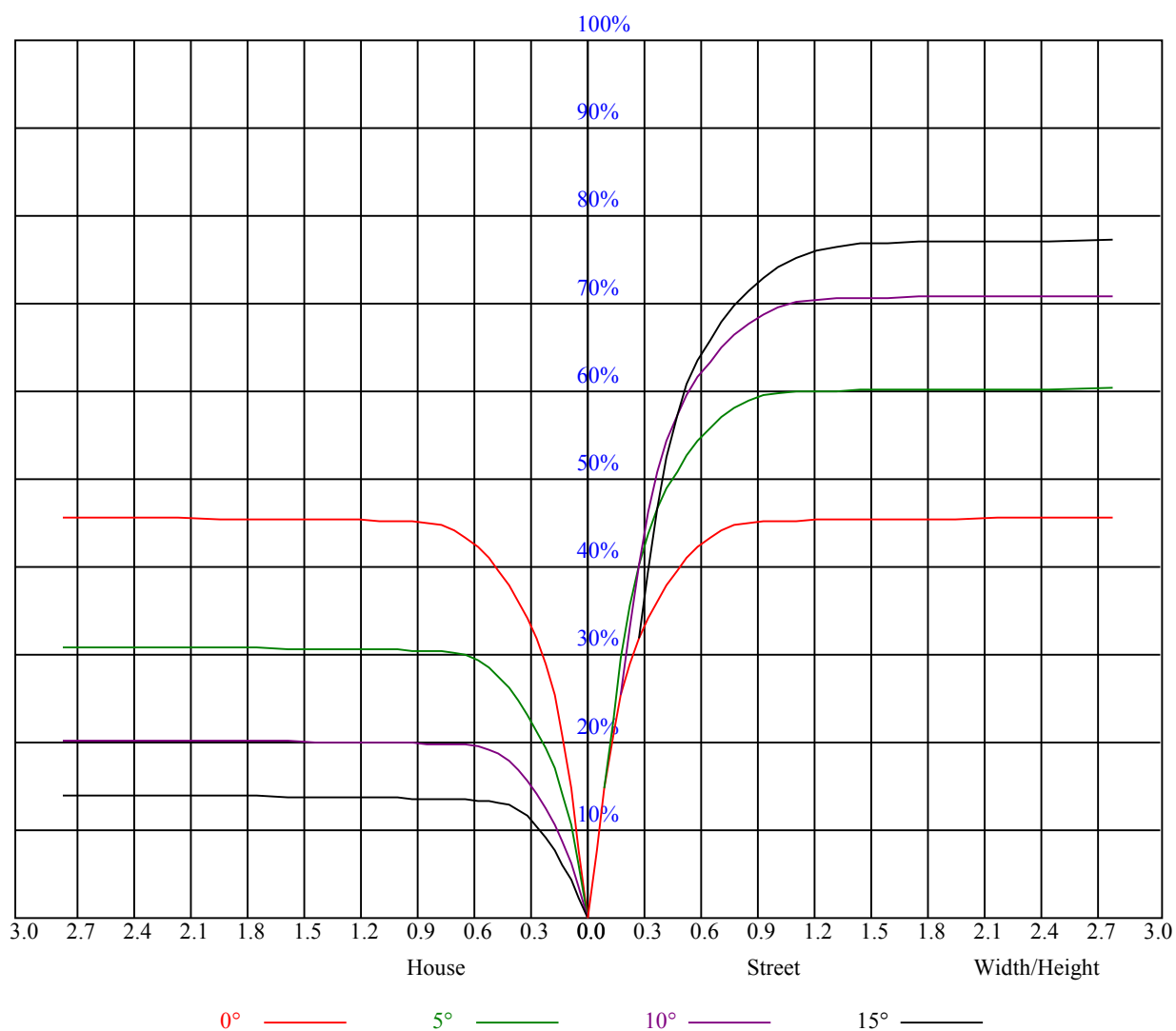
Luminance Limiting Curve



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	1.04	1.96	1.41	2.27	2.59	1.03	1.95	1.40	2.26	2.58
	3H	3.19	4.00	3.58	4.33	4.70	3.19	4.00	3.57	4.33	4.70
	4H	4.39	5.14	4.80	5.49	5.88	4.38	5.13	4.79	5.48	5.87
	6H	5.66	6.34	6.08	6.72	7.12	5.66	6.34	6.08	6.72	7.12
	8H	6.31	6.95	6.75	7.35	7.76	6.31	6.95	6.75	7.34	7.75
	12H	7.34	7.95	7.78	8.34	8.77	7.32	7.93	7.76	8.32	8.75
4H	2H	1.50	2.24	1.90	2.60	2.99	1.49	2.24	1.90	2.59	2.98
	3H	3.95	4.57	4.37	4.98	5.39	3.94	4.56	4.36	4.97	5.37
	4H	5.33	5.88	5.77	6.30	6.75	5.31	5.86	5.75	6.28	6.73
	6H	6.71	7.17	7.18	7.63	8.10	6.70	7.17	7.17	7.62	8.09
	8H	7.47	7.91	7.95	8.36	8.84	7.46	7.90	7.94	8.35	8.83
	12H	8.50	8.87	8.99	9.36	9.84	8.48	8.85	8.97	9.34	9.82
8H	4H	5.75	6.19	6.23	6.64	7.12	5.74	6.18	6.22	6.63	7.10
	6H	7.37	7.72	7.88	8.22	8.71	7.37	7.71	7.88	8.22	8.70
	8H	8.30	8.60	8.83	9.13	9.62	8.29	8.59	8.82	9.12	9.62
	12H	9.46	9.72	9.98	10.22	10.80	9.44	9.70	9.96	10.20	10.78
12H	4H	5.84	6.21	6.33	6.70	7.18	5.83	6.20	6.32	6.69	7.17
	6H	7.75	7.85	8.08	8.32	8.87	7.74	7.84	8.08	8.32	8.87
	8H	8.57	8.83	9.09	9.33	9.91	8.56	8.82	9.08	9.32	9.90
Variation with the observer position at spacings:											
S = 1.0H		5.3/-9.2					5.3/-9.2				
S = 1.5H		7.9/-7.4					7.9/-7.4				
S = 2.0H		9.6/-6.1					9.6/-6.1				
Standard tables:		BK1					BK1				
Uncorrected UGR		-1.3					-1.3				



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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.92	0.91	0.90	0.90	0.89	0.87
2	0.97	0.94	0.91	0.95	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.85	0.83
3	0.92	0.88	0.85	0.91	0.87	0.85	0.88	0.86	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.79
4	0.88	0.84	0.80	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	0.79	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	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
8	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
9	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61



Intensity data(cd)									
Appendix Page: 17 Total:19									
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	11440.72	11545.33	11517.80	11418.70	11170.94	10691.95	10124.87	9293.52	8434.64
45.0	11457.24	11550.83	11572.86	11468.25	11270.05	10917.68	10328.58	9612.85	8764.98
90.0	11495.78	11506.79	11440.72	10960.08	10855.47	10340.14	9640.93	8577.24	7611.00
135.0	11473.75	11435.21	11259.03	10961.73	10477.23	9778.02	8979.70	7922.62	6942.61
180.0	11440.72	10983.20	10876.39	10218.47	9497.23	8630.64	7526.76	6350.76	5336.62
225.0	11457.24	10939.16	10815.28	10162.86	9323.80	8417.57	7415.00	6146.50	5148.32
270.0	11501.28	11385.66	11104.88	10680.94	10003.75	9133.86	8225.43	7135.31	6144.29
315.0	11473.75	11424.20	10988.71	10860.43	10338.49	9669.56	8865.18	7727.72	6769.18
360.0	11440.72	11545.33	11517.80	11418.70	11170.94	10691.95	10124.87	9293.52	8434.64
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7372.05	6265.42	5301.93	4432.04	3540.13	2978.55	2796.87	2106.46	1847.69
45.0	7592.28	6595.76	5577.21	4525.64	3666.76	3061.14	2802.37	2135.64	1873.02
90.0	6587.50	5340.47	4430.39	3685.48	3013.24	2496.26	2147.75	1844.39	1637.93
135.0	5802.94	4734.85	3909.00	3237.32	2829.90	2218.77	1925.87	1649.49	1485.42
180.0	4309.26	3477.36	2892.11	2385.59	2042.04	1752.45	1536.62	1392.93	1286.67
225.0	4282.29	3396.98	2838.71	2409.27	2030.48	1748.04	1564.70	1406.69	1298.78
270.0	5065.19	4134.74	3452.04	2967.54	2548.56	2053.05	1798.69	1564.15	1423.21
315.0	5796.89	4646.76	3866.06	3243.37	2685.10	2260.07	1972.12	1717.76	1550.39
360.0	7372.05	6265.42	5301.93	4432.04	3540.13	2978.55	2796.87	2106.46	1847.69
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1649.49	1483.22	1351.63	1263.54	1188.12	1134.71	1089.57	1052.13	1024.60
45.0	1683.07	1479.92	1345.03	1266.85	1180.96	1129.21	1089.57	1049.93	1023.50
90.0	1461.75	1328.51	1244.27	1170.50	1096.12	1071.95	1039.57	1006.87	985.84
135.0	1359.34	1251.98	1174.90	1121.50	1075.80	1040.02	1014.69	989.91	968.99
180.0	1185.91	1093.48	1083.62	1048.11	1017.83	996.69	976.54	952.53	929.02
225.0	1210.14	1146.82	1093.42	1062.42	1029.00	1009.13	986.72	959.91	941.90
270.0	1316.40	1228.86	1160.04	1115.99	1074.15	1044.97	1016.34	989.91	967.34
315.0	1399.53	1291.07	1211.24	1141.32	1094.03	1056.31	1027.63	996.19	971.53
360.0	1649.49	1483.22	1351.63	1263.54	1188.12	1134.71	1089.57	1052.13	1024.60
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	993.77	967.34	944.77	920.54	887.51	866.04	842.91	792.81	735.55
45.0	999.27	969.54	945.87	924.40	890.26	867.14	841.81	798.32	735.55
90.0	963.16	935.19	915.20	888.17	859.38	834.88	788.63	712.10	651.76
135.0	946.97	921.64	899.07	877.05	845.12	804.37	744.91	662.33	593.51
180.0	908.98	881.89	859.76	831.02	776.96	706.81	637.33	556.68	481.03
225.0	918.95	889.49	866.53	834.54	776.02	706.26	638.05	561.36	475.14
270.0	941.46	914.49	889.71	872.09	834.66	780.70	721.79	644.71	563.78
315.0	947.69	919.17	893.73	870.33	848.53	812.91	758.18	686.72	615.86
360.0	993.77	967.34	944.77	920.54	887.51	866.04	842.91	792.81	735.55
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	672.24	597.91	497.71	417.88	339.15	283.54	178.27	121.29	69.43
45.0	668.38	585.80	502.11	423.38	336.95	281.89	185.26	121.01	72.73
90.0	570.38	488.30	415.07	335.73	250.29	194.24	134.72	65.63	38.37
135.0	515.33	434.39	353.46	279.69	240.38	140.67	83.69	45.31	29.57
180.0	394.37	308.37	237.40	164.95	102.18	59.30	33.69	24.83	18.94
225.0	386.66	311.23	230.96	157.68	96.73	54.29	32.70	24.83	18.17
270.0	489.45	404.11	321.53	286.29	172.88	114.24	60.56	33.58	25.66
315.0	535.64	453.28	377.41	295.21	220.28	157.13	100.92	48.01	32.15
360.0	672.24	597.91	497.71	417.88	339.15	283.54	178.27	121.29	69.43

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	37.49	27.25	19.16	16.19	15.03	13.76	13.16	12.77	12.39
45.0	38.65	27.09	19.99	16.19	14.98	14.09	13.38	12.88	12.61
90.0	28.79	21.09	16.08	15.14	13.98	13.27	12.88	12.61	12.39
135.0	21.31	16.85	15.31	14.37	13.43	12.99	12.72	12.50	12.17
180.0	15.80	14.81	13.87	13.38	12.99	12.72	12.39	12.06	11.89
225.0	15.75	14.87	13.76	13.32	12.88	12.50	12.28	12.06	11.78
270.0	18.50	15.91	14.87	13.82	13.05	12.72	12.44	12.22	11.95
315.0	23.45	17.01	15.69	14.59	13.27	12.83	12.55	12.28	12.06
360.0	37.49	27.25	19.16	16.19	15.03	13.76	13.16	12.77	12.39
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.17	11.89	11.67	11.45	11.23	11.07	10.90	10.79	10.68
45.0	12.39	12.11	11.89	11.67	11.45	11.29	11.12	10.96	10.85
90.0	12.11	11.84	11.67	11.45	11.29	11.12	10.96	10.85	10.74
135.0	12.00	11.78	11.56	11.34	11.23	11.07	10.90	10.85	10.74
180.0	11.67	11.51	11.29	11.18	10.96	10.85	10.74	10.63	10.57
225.0	11.56	11.40	11.18	11.07	10.90	10.74	10.68	10.57	10.46
270.0	11.78	11.51	11.34	11.18	11.01	10.85	10.74	10.63	10.52
315.0	11.78	11.56	11.40	11.23	11.01	10.85	10.74	10.57	10.52
360.0	12.17	11.89	11.67	11.45	11.23	11.07	10.90	10.79	10.68
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.57	10.46	10.35	10.30	10.24	10.19	10.13	10.08	10.02
45.0	10.74	10.63	10.52	10.46	10.35	10.30	10.24	10.19	10.13
90.0	10.63	10.57	10.46	10.35	10.30	10.24	10.19	10.13	10.08
135.0	10.63	10.57	10.46	10.41	10.35	10.30	10.19	10.19	10.08
180.0	10.46	10.41	10.35	10.30	10.24	10.19	10.13	10.08	10.02
225.0	10.41	10.35	10.24	10.19	10.19	10.13	10.08	10.02	9.97
270.0	10.41	10.35	10.30	10.19	10.19	10.08	10.08	10.02	9.97
315.0	10.41	10.35	10.24	10.19	10.13	10.08	10.02	9.97	9.91
360.0	10.57	10.46	10.35	10.30	10.24	10.19	10.13	10.08	10.02
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.97	9.97	9.91	9.86	9.86	9.80	9.80	9.74	9.80
45.0	10.02	10.02	9.97	9.97	9.86	9.86	9.86	9.80	9.80
90.0	10.02	9.97	9.91	9.91	9.86	9.80	9.80	9.80	9.74
135.0	10.02	10.02	9.97	9.91	9.91	9.91	9.86	9.80	9.74
180.0	10.02	9.97	9.97	9.91	9.86	9.86	9.86	9.80	9.80
225.0	9.97	9.91	9.86	9.86	9.80	9.80	9.80	9.74	9.80
270.0	9.91	9.91	9.86	9.86	9.80	9.80	9.74	9.74	9.74
315.0	9.91	9.86	9.86	9.80	9.80	9.74	9.74	9.74	9.69
360.0	9.97	9.97	9.91	9.86	9.86	9.80	9.80	9.74	9.80
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.74	9.74	9.69	9.69	9.69	9.69	9.69	9.63	9.58
45.0	9.74	9.74	9.74	9.69	9.69	9.69	9.63	9.63	9.58
90.0	9.74	9.69	9.69	9.69	9.69	9.80	9.58	9.58	9.52
135.0	9.74	9.80	9.80	9.80	9.91	9.91	9.69	9.58	9.58
180.0	9.74	9.80	9.86	9.91	9.91	9.69	9.63	9.58	9.58
225.0	9.74	9.80	9.97	10.02	9.91	9.74	9.58	9.58	9.58
270.0	9.69	9.74	9.80	9.97	10.19	10.46	9.58	9.58	9.58
315.0	9.69	9.69	9.69	9.74	9.97	10.24	9.58	9.58	9.58
360.0	9.74	9.74	9.69	9.69	9.69	9.69	9.69	9.63	9.58

Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	9.58
45.0	9.58
90.0	9.58
135.0	9.58
180.0	9.58
225.0	9.58
270.0	9.58
315.0	9.58
360.0	9.58