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Nata

LumCAT: 2-1793-N
Luminaire: 92.70.131.00
Report No: NATA0100
Test No: GC2018091002
LampCAT: LUMINUS CXM-11-AC30
Lamp flux(lm): 2546.0
Number of Lamps: 1
Length(mm): 69
Phm Type: C

Voltage(V): 34.7000
Current(A): 0.5100
Power (W): 17.6970
PF: 0.0000
Ballast type: DC
Width(mm): 69
Height(mm): 0

Photometric Results

Lumens(lm): 2147.31
Efficiency(%): 84.34%
Lumens(lm)/Power(W): 121.54
Central intensity(cd): 15368.910
Maximum intensity(cd): 15368.910
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=15.9
[C90/270]Total=15.9
Field angle(10%Imax): [C0/180]Total=35.6
[C90/270]Total=35.6
Maximum s/h(1/2): C0_180=0.27 C90_270=0.27
Maximum s/h(1/4): C0_180=0.29 C90_270=0.29
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.48%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.934%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15368.906	3.677	3.677	.144%	.171%
1.0	15229.688	29.147	32.824	1.145%	1.529%
2.0	14741.719	56.418	89.242	2.216%	4.156%
3.0	13851.563	79.497	168.739	3.122%	7.858%
4.0	12545.297	95.966	264.705	3.769%	12.327%
5.0	11383.102	108.795	373.5	4.273%	17.394%
6.0	10245.938	117.446	490.946	4.613%	22.863%
7.0	8847.352	118.239	609.185	4.644%	28.370%
8.0	7627.078	116.403	725.588	4.572%	33.791%
9.0	6344.648	108.841	834.429	4.275%	38.859%
10.0	5244.891	99.875	934.304	3.923%	43.510%
11.0	4402.688	92.123	1026.427	3.618%	47.801%
12.0	3656.883	83.376	1109.803	3.275%	51.683%
13.0	3046.852	75.161	1184.964	2.952%	55.184%
14.0	2680.805	71.120	1256.084	2.793%	58.496%
15.0	2275.594	64.587	1320.671	2.537%	61.504%
16.0	1937.883	58.576	1379.247	2.301%	64.231%
17.0	1707.188	54.735	1433.982	2.150%	66.780%
18.0	1500.469	50.846	1484.828	1.997%	69.148%
19.0	1345.008	48.020	1532.848	1.886%	71.385%
20.0	1208.377	45.322	1578.17	1.780%	73.495%
21.0	1104.771	43.416	1621.586	1.705%	75.517%
22.0	1029.916	42.309	1663.895	1.662%	77.487%
23.0	963.872	41.300	1705.195	1.622%	79.411%
24.0	909.359	40.560	1745.755	1.593%	81.300%
25.0	865.709	40.121	1785.876	1.576%	83.168%
26.0	830.967	39.946	1825.822	1.569%	85.028%
27.0	798.441	39.750	1865.572	1.561%	86.880%
28.0	745.411	38.376	1903.948	1.507%	88.667%
29.0	662.323	35.212	1939.16	1.383%	90.307%
30.0	570.860	31.301	1970.461	1.229%	91.764%
31.0	463.500	26.178	1996.639	1.028%	92.983%
32.0	352.680	20.495	2017.134	.805%	93.938%
33.0	267.926	16.002	2033.136	.629%	94.683%
34.0	181.181	11.110	2044.246	.436%	95.200%
35.0	99.260	6.243	2050.49	.245%	95.491%
36.0	68.084	4.388	2054.878	.172%	95.696%
37.0	57.902	3.821	2058.699	.150%	95.873%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	51.694	3.490	2062.189	.137%	96.036%
39.0	46.427	3.204	2065.393	.126%	96.185%
40.0	42.532	2.998	2068.392	.118%	96.325%
41.0	39.009	2.806	2071.198	.110%	96.456%
42.0	35.613	2.613	2073.811	.103%	96.577%
43.0	32.442	2.426	2076.238	.095%	96.690%
44.0	29.784	2.269	2078.506	.089%	96.796%
45.0	27.415	2.126	2080.632	.083%	96.895%
46.0	25.650	2.023	2082.656	.079%	96.989%
47.0	23.815	1.910	2084.566	.075%	97.078%
48.0	22.683	1.849	2086.414	.073%	97.164%
49.0	21.656	1.792	2088.206	.070%	97.248%
50.0	20.637	1.734	2089.94	.068%	97.328%
51.0	20.004	1.705	2091.645	.067%	97.408%
52.0	19.448	1.681	2093.325	.066%	97.486%
53.0	18.914	1.656	2094.982	.065%	97.563%
54.0	18.563	1.647	2096.629	.065%	97.640%
55.0	18.309	1.645	2098.273	.065%	97.716%
56.0	18.014	1.638	2099.911	.064%	97.793%
57.0	17.838	1.641	2101.552	.064%	97.869%
58.0	17.648	1.641	2103.193	.064%	97.946%
59.0	17.395	1.635	2104.828	.064%	98.022%
60.0	17.297	1.643	2106.471	.065%	98.098%
61.0	17.128	1.643	2108.113	.065%	98.175%
62.0	16.966	1.643	2109.756	.065%	98.251%
63.0	16.952	1.656	2111.413	.065%	98.328%
64.0	16.713	1.647	2113.06	.065%	98.405%
65.0	16.334	1.623	2114.683	.064%	98.481%
66.0	16.024	1.605	2116.289	.063%	98.555%
67.0	15.595	1.574	2117.863	.062%	98.629%
68.0	15.216	1.547	2119.41	.061%	98.701%
69.0	14.885	1.524	2120.934	.060%	98.772%
70.0	14.527	1.497	2122.431	.059%	98.841%
71.0	14.210	1.473	2123.904	.058%	98.910%
72.0	13.887	1.448	2125.352	.057%	98.977%
73.0	13.584	1.425	2126.777	.056%	99.044%
74.0	13.310	1.403	2128.18	.055%	99.109%
75.0	13.029	1.380	2129.56	.054%	99.173%

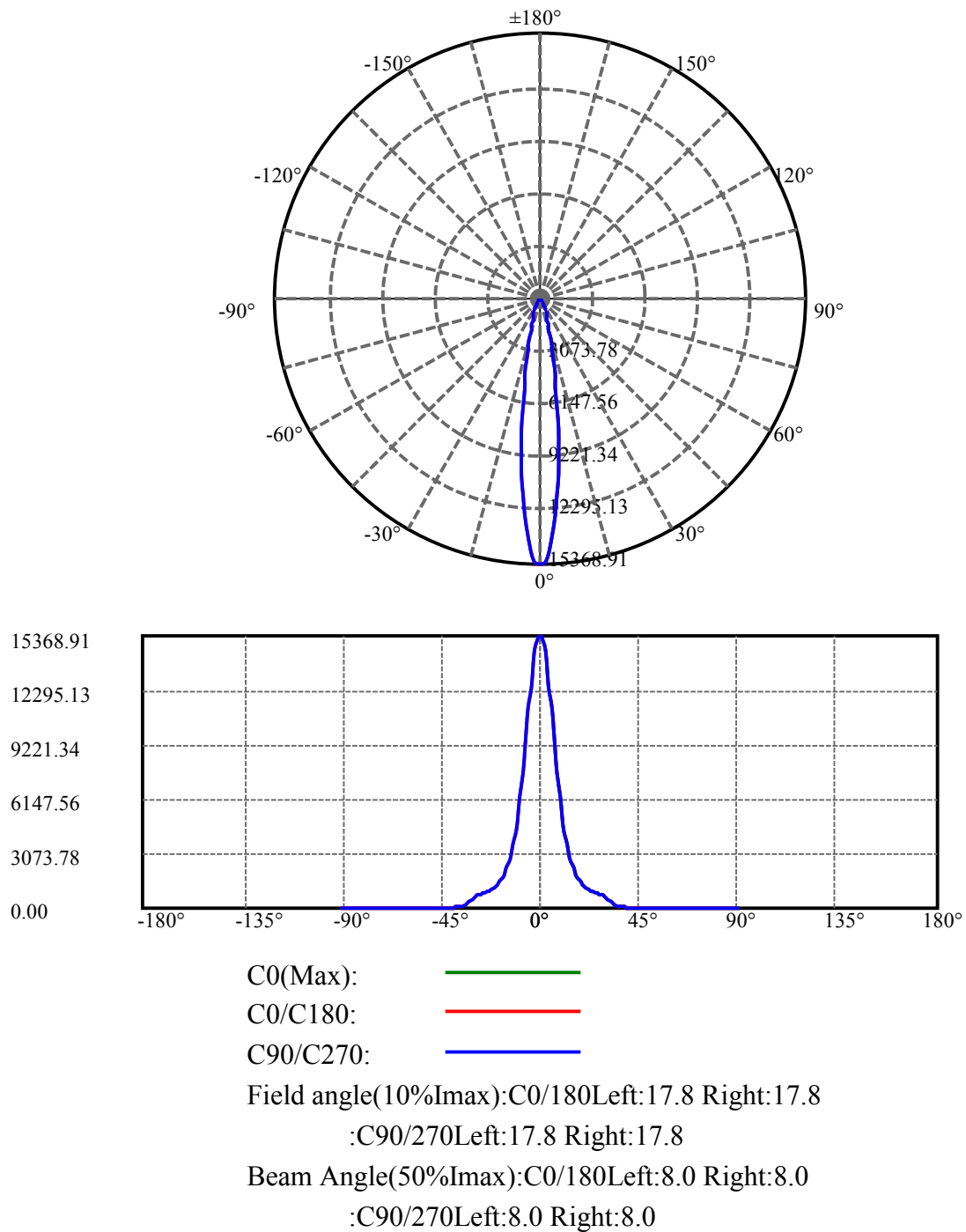
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.734	1.355	2130.915	.053%	99.237%
77.0	12.530	1.339	2132.254	.053%	99.299%
78.0	12.319	1.321	2133.575	.052%	99.360%
79.0	12.101	1.303	2134.878	.051%	99.421%
80.0	11.883	1.283	2136.161	.050%	99.481%
81.0	11.679	1.265	2137.426	.050%	99.540%
82.0	11.489	1.248	2138.674	.049%	99.598%
83.0	11.257	1.225	2139.899	.048%	99.655%
84.0	11.067	1.207	2141.106	.047%	99.711%
85.0	10.863	1.187	2142.293	.047%	99.766%
86.0	10.610	1.161	2143.453	.046%	99.820%
87.0	10.350	1.133	2144.587	.045%	99.873%
88.0	10.111	1.108	2145.695	.044%	99.925%
89.0	9.858	1.081	2146.776	.042%	99.975%
90.0	9.724	0.533	2147.309	.021%	100.000%

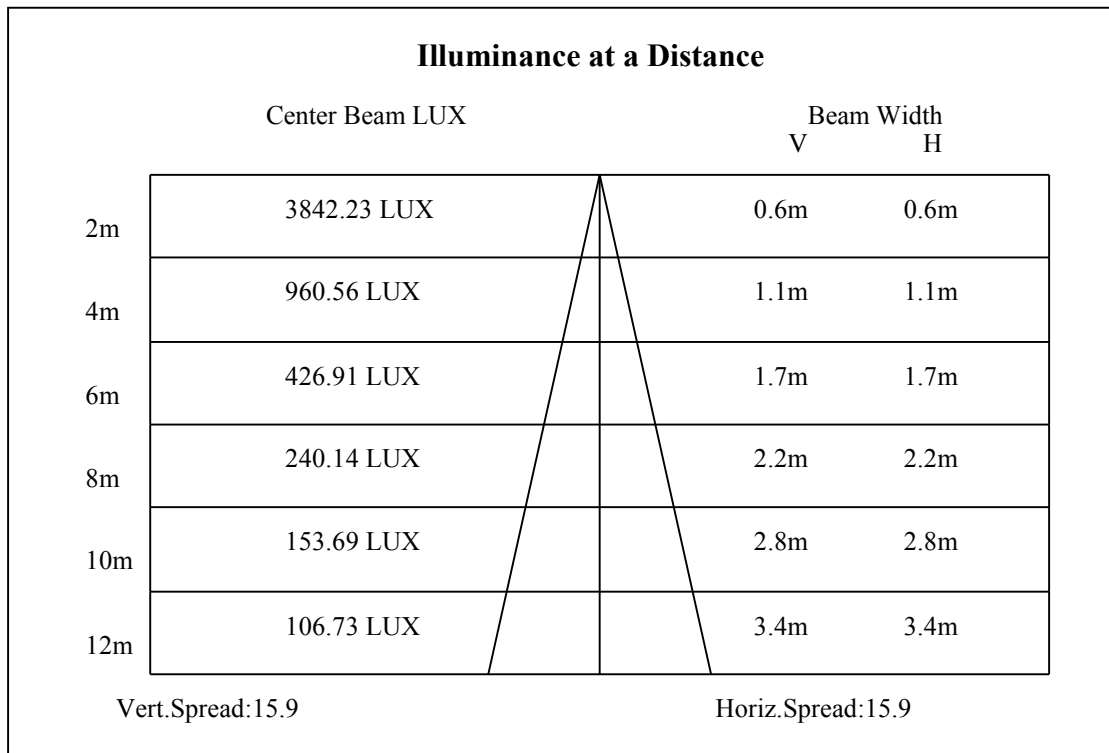
ZONAL LUMEN SUMMARY

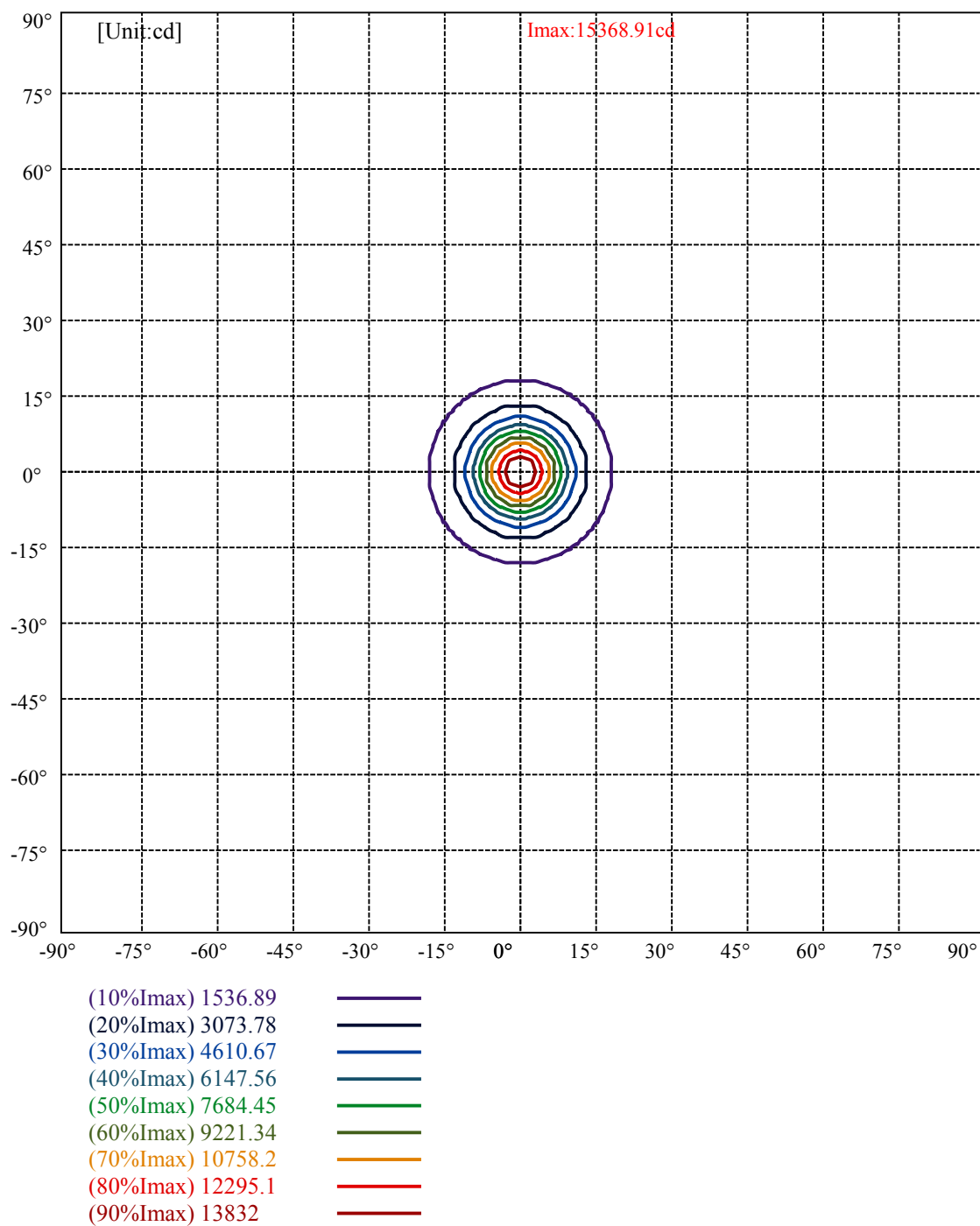
Zone	Lumens	%Lamp	%Fixt
0-30	1970.46	77.39%	91.76%
0-40	2068.39	81.24%	96.32%
0-60	2106.47	82.74%	98.10%
0-90	2146.78	84.32%	99.98%
0-120	2146.78	84.32%	99.98%
0-180	2147.31	84.34%	100.00%
60-90	41.95	1.65%	1.95%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-23.31	1717.85	67.47%	80.00%

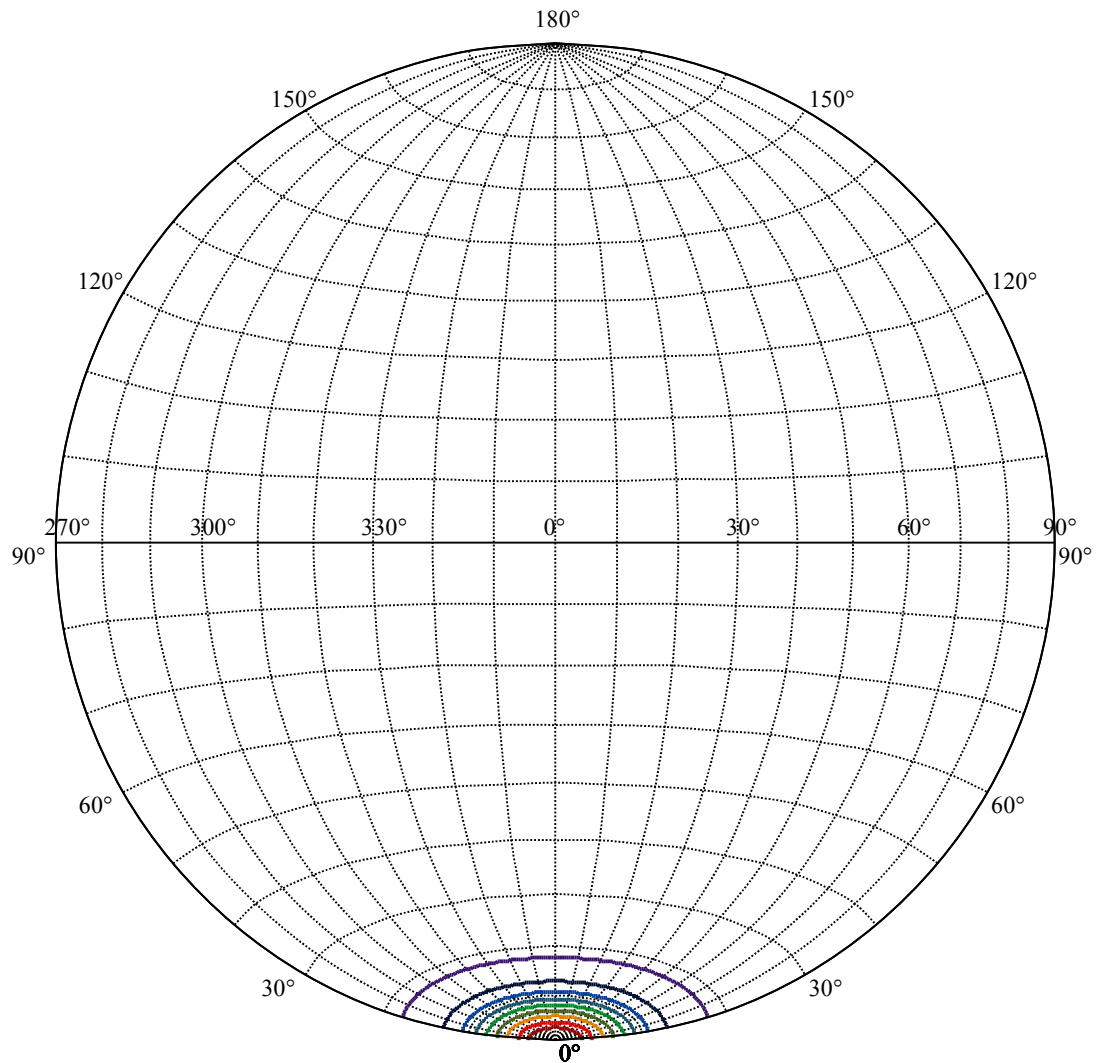
ZONAL LUMEN SUMMARY

0-10	934.30
10-20	643.87
20-30	392.29
30-40	97.93
40-50	21.55
50-60	16.53
60-70	15.96
70-80	13.73
80-90	10.61
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









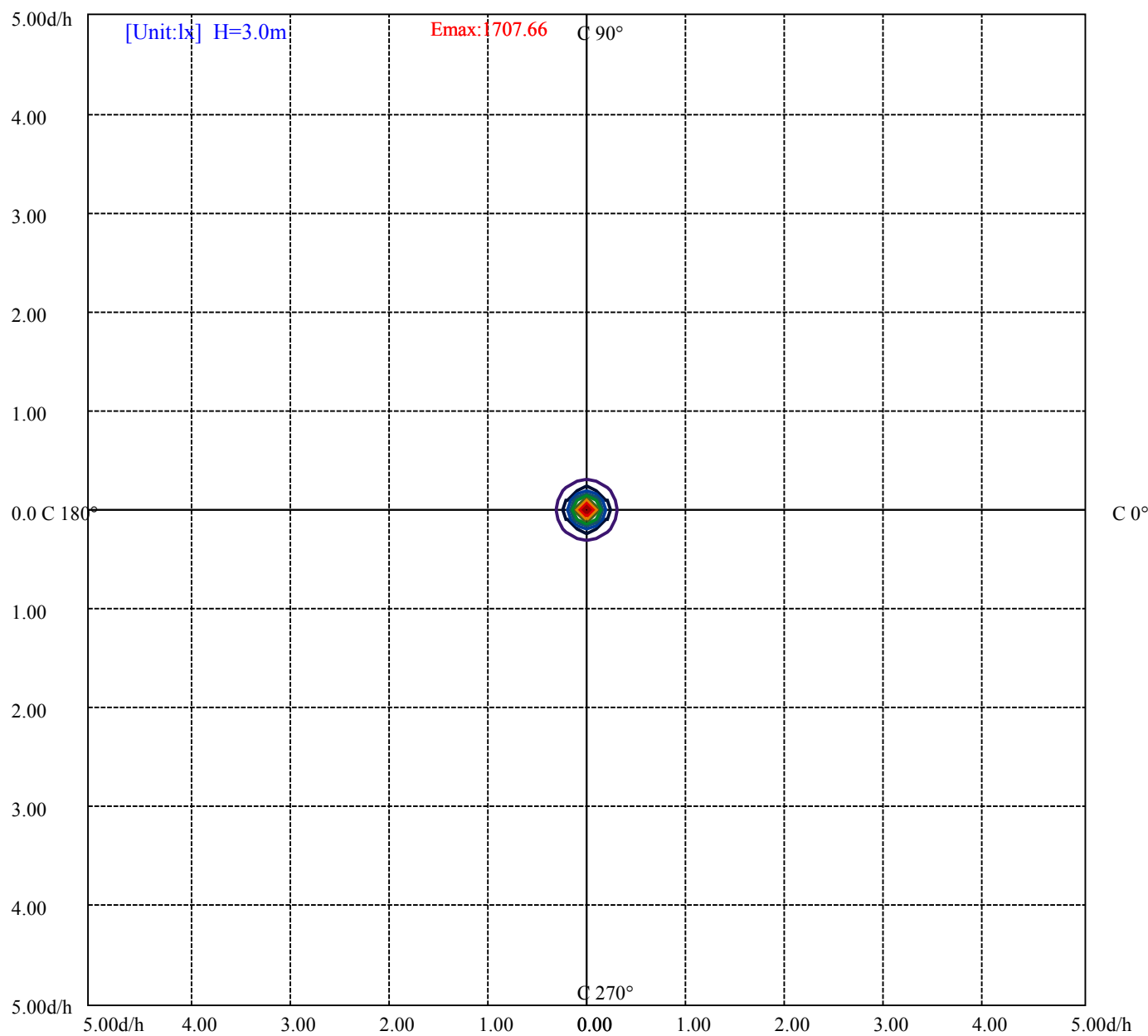
House

[Unit:cd]

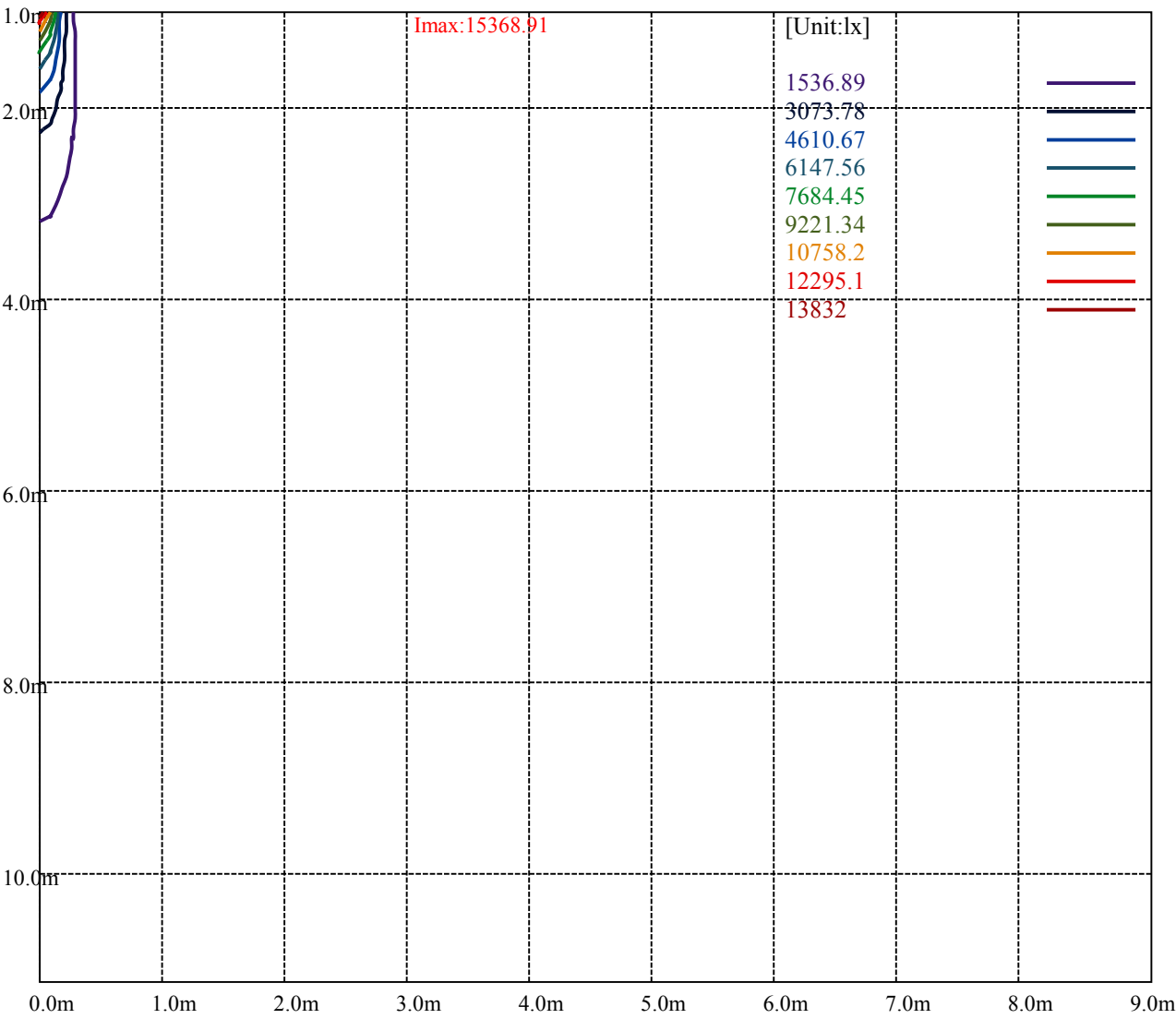
Road

Imax:15368.91

(10%Imax)	1536.89	—
(20%Imax)	3073.78	—
(30%Imax)	4610.67	—
(40%Imax)	6147.56	—
(50%Imax)	7684.45	—
(60%Imax)	9221.34	—
(70%Imax)	10758.2	—
(80%Imax)	12295.1	—
(90%Imax)	13832	—



(10%E _{max}) 170.7656	—
(20%E _{max}) 341.5311	—
(30%E _{max}) 512.2966	—
(40%E _{max}) 683.0611	—
(50%E _{max}) 853.8267	—
(60%E _{max}) 1024.592	—
(70%E _{max}) 1195.356	—
(80%E _{max}) 1366.122	—
(90%E _{max}) 1536.889	—



Luminance Table

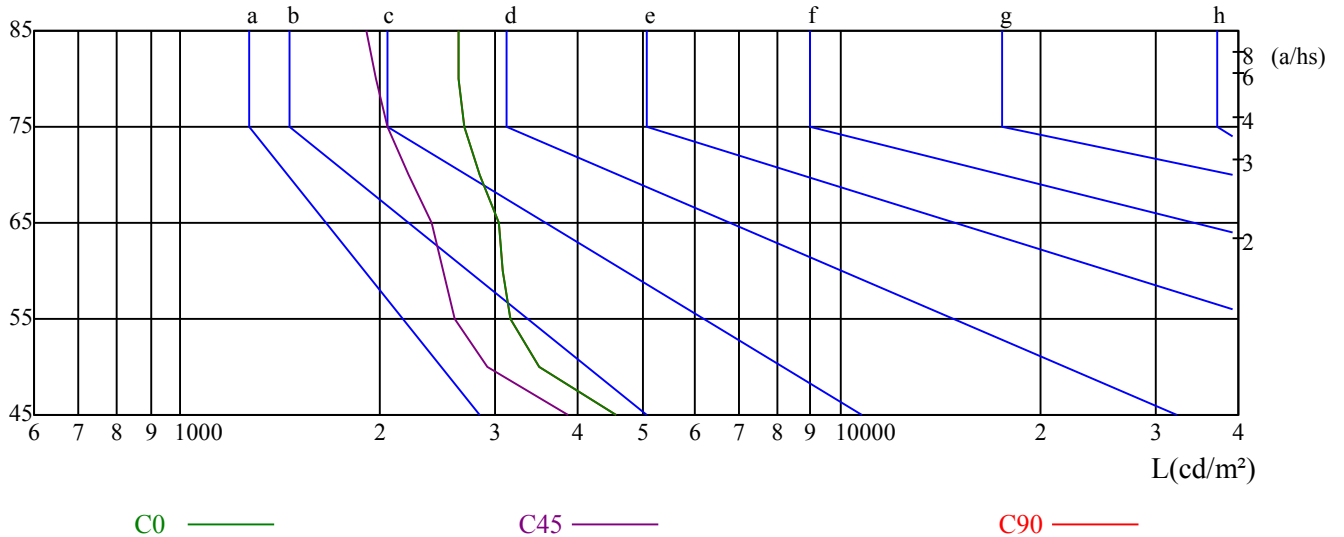
γ	45	50	55	60	65	70	75	80	85
C0	4568	3489	3166	3085	3031	2832	2697	2643	2632
C45	3865	2908	2598	2491	2406	2208	2061	1975	1918
C90	4568	3489	3166	3085	3031	2832	2697	2643	2632

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8118	8118	8118	10573	10573	10573	26180	26180	26180

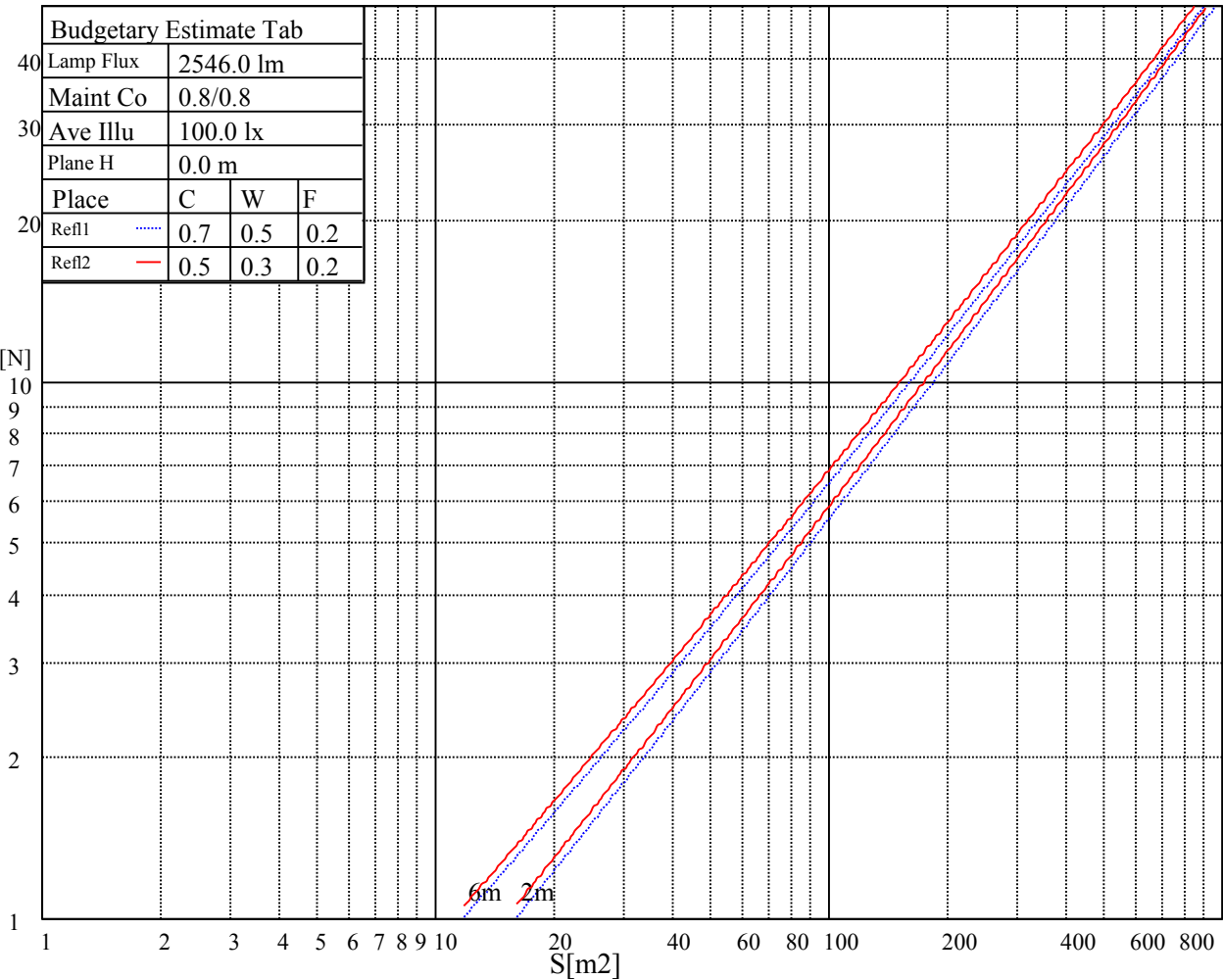
Glare Table

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

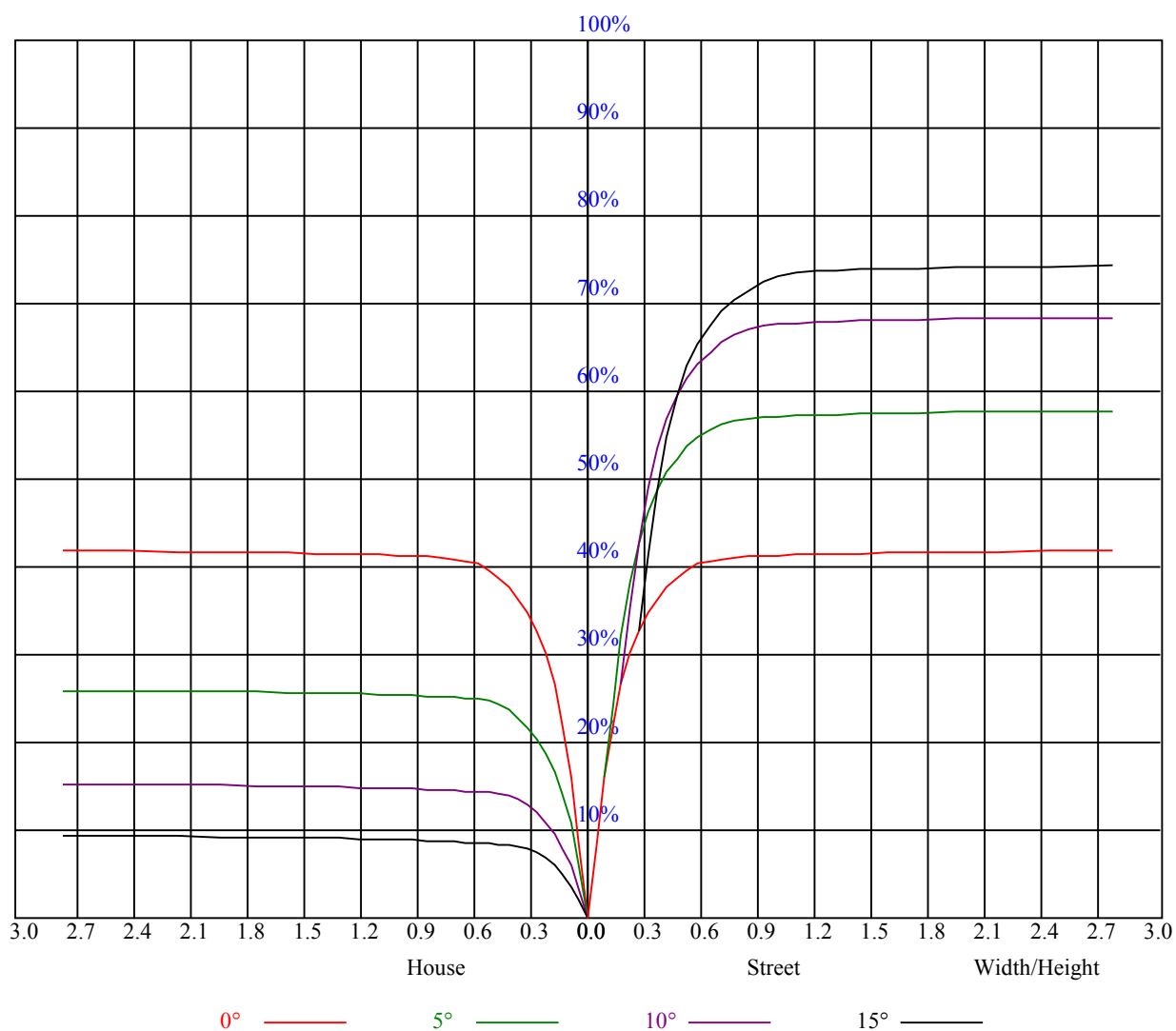
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

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	4.53	5.46	4.89	5.77	6.09	4.33	5.27	4.70	5.58	5.89
	3H	6.38	7.20	6.76	7.54	7.91	6.23	7.05	6.61	7.39	7.76
	4H	7.26	8.03	7.67	8.38	8.77	7.14	7.90	7.55	8.25	8.65
	6H	8.14	8.84	8.56	9.22	9.62	8.05	8.75	8.47	9.12	9.52
	8H	8.57	9.22	9.00	9.61	10.02	8.49	9.15	8.93	9.54	9.95
	12H	9.22	9.85	9.66	10.23	10.67	9.19	9.81	9.63	10.20	10.63
4H	2H	4.90	5.66	5.31	6.01	6.41	4.74	5.50	5.15	5.86	6.25
	3H	6.99	7.61	7.40	8.02	8.43	6.87	7.50	7.29	7.91	8.32
	4H	8.02	8.58	8.46	9.01	9.46	7.93	8.49	8.37	8.92	9.37
	6H	8.96	9.44	9.43	9.89	10.37	8.89	9.37	9.36	9.82	10.30
	8H	9.49	9.94	9.97	10.39	10.86	9.44	9.89	9.92	10.34	10.82
	12H	10.19	10.57	10.68	11.06	11.54	10.18	10.56	10.67	11.05	11.53
8H	4H	8.30	8.75	8.78	9.20	9.68	8.22	8.67	8.70	9.12	9.60
	6H	9.45	9.81	9.96	10.31	10.80	9.40	9.75	9.91	10.25	10.74
	8H	10.12	10.44	10.66	10.96	11.46	10.09	10.40	10.62	10.92	11.42
	12H	11.00	11.26	11.52	11.76	12.35	11.00	11.26	11.52	11.76	12.34
12H	4H	8.34	8.72	8.83	9.21	9.69	8.26	8.65	8.75	9.14	9.61
	6H	9.78	9.87	10.10	10.35	10.90	9.73	9.82	10.05	10.29	10.84
	8H	10.32	10.58	10.84	11.08	11.66	10.28	10.55	10.81	11.05	11.63
Variation with the observer position at spacings:											
S = 1.0H		4.2/-2.1					4.2/-2.1				
S = 1.5H		5.5/-1.7					5.5/-1.7				
S = 2.0H		6.5/-1.4					6.5/-1.4				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-1.7					-1.7				



RHOC	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	1.01	1.01	1.01	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.86	0.86	0.85	0.84	0.83	0.82	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.81	0.81	0.80	0.79	0.78
3	0.86	0.83	0.80	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.79	0.78	0.76	0.75
4	0.83	0.79	0.77	0.82	0.79	0.76	0.80	0.78	0.75	0.79	0.76	0.75	0.77	0.75	0.74	0.73
5	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.71
6	0.77	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.70	0.73	0.71	0.69	0.68
7	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.72	0.69	0.67	0.67
8	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
9	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63
10	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.67	0.64	0.63	0.62



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	15373.13	15395.63	15120.00	14535.00	13545.00	12262.50	11086.88	9714.38	8488.13
45.0	15373.13	15215.63	14670.00	13848.75	12701.25	11424.38	10192.50	8791.88	7565.63
90.0	15328.13	15024.38	14355.00	13179.38	11189.25	10868.06	9481.50	8067.94	6834.38
135.0	15401.25	15187.50	14670.00	13826.25	12650.63	11340.00	10119.38	8690.63	7481.25
180.0	15373.13	15013.13	14349.38	13145.63	11086.88	10776.94	9396.00	7981.88	6806.25
225.0	15373.13	15288.75	14838.75	13831.88	12785.63	11164.50	10245.94	8880.75	7652.81
270.0	15328.13	15395.63	15108.75	14450.63	13426.88	12144.38	10980.00	9585.00	8341.88
315.0	15401.25	15316.88	14821.88	13995.00	12976.88	11084.06	10465.31	9066.38	7846.31
360.0	15373.13	15395.63	15120.00	14535.00	13545.00	12262.50	11086.88	9714.38	8488.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7183.13	5990.63	5056.88	4263.75	3521.25	2936.25	2880.00	2168.44	1874.81
45.0	6300.00	5175.00	4320.00	3616.88	2941.88	2885.63	2210.06	1891.69	1685.81
90.0	5503.50	4597.88	3845.81	3119.63	2724.19	2317.50	1971.00	1773.56	1572.19
135.0	6232.50	5141.25	4325.63	3616.88	2947.50	2885.63	2212.88	1905.75	1659.94
180.0	5620.50	4610.81	3879.56	3214.13	2757.94	2347.88	2028.94	1788.75	1589.06
225.0	6363.56	5243.06	4390.88	3607.31	3048.19	2566.69	2202.75	1938.94	1718.44
270.0	7020.00	5816.25	4888.13	4100.63	3290.63	2846.25	2412.56	2023.88	1776.38
315.0	6534.00	5384.25	4514.63	3715.88	3143.25	2660.63	2286.56	2012.06	1780.88
360.0	7183.13	5990.63	5056.88	4263.75	3521.25	2936.25	2880.00	2168.44	1874.81
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1662.19	1487.25	1310.06	1198.13	1108.69	1025.44	958.50	909.00	864.00
45.0	1504.69	1341.56	1212.19	1120.50	1035.56	971.44	925.31	877.50	843.75
90.0	1349.44	1197.00	1121.46	1023.47	952.59	901.07	855.11	813.04	786.71
135.0	1474.88	1340.44	1177.31	1087.31	1027.69	959.63	906.19	874.69	833.63
180.0	1379.25	1248.19	1115.49	1039.16	974.98	924.47	873.28	838.52	810.68
225.0	1515.38	1348.31	1228.50	1119.32	1036.63	977.91	926.61	874.58	839.03
270.0	1573.88	1405.69	1235.81	1132.31	1044.00	957.94	905.06	856.69	822.38
315.0	1544.06	1391.63	1266.19	1117.97	1059.19	993.09	924.81	881.66	847.58
360.0	1662.19	1487.25	1310.06	1198.13	1108.69	1025.44	958.50	909.00	864.00
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	828.00	799.88	741.38	664.31	563.06	451.13	349.88	288.56	148.33
45.0	812.25	751.50	672.19	577.69	455.63	352.69	286.88	159.36	91.29
90.0	755.61	669.49	584.44	488.87	375.81	268.20	185.12	111.71	72.28
135.0	808.88	768.38	662.06	565.88	465.75	335.81	287.44	152.38	79.88
180.0	769.56	700.71	598.22	487.63	383.96	272.64	176.23	108.90	67.56
225.0	811.63	747.45	666.68	574.20	462.83	353.87	259.65	162.73	94.44
270.0	789.19	756.56	691.88	617.06	519.75	412.88	317.81	284.06	132.58
315.0	812.42	769.33	681.75	591.24	481.22	374.23	280.41	181.74	107.72
360.0	828.00	799.88	741.38	664.31	563.06	451.13	349.88	288.56	148.33
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	90.11	61.54	54.06	49.05	44.27	40.44	37.24	34.37	31.39
45.0	66.26	60.81	53.94	48.54	44.72	40.44	36.45	33.69	30.49
90.0	61.99	56.31	51.47	46.07	42.53	39.09	35.89	32.23	29.98
135.0	59.96	54.79	48.88	43.93	40.73	37.35	33.69	31.28	28.69
180.0	56.59	51.36	45.62	40.73	37.74	34.48	31.84	28.97	27.11
225.0	62.27	55.46	50.57	44.49	40.61	37.35	33.98	30.54	28.07
270.0	85.16	67.16	58.44	52.54	47.81	44.04	39.88	36.56	33.36
315.0	62.33	55.80	50.57	46.07	41.85	38.87	35.94	31.89	29.19
360.0	90.11	61.54	54.06	49.05	44.27	40.44	37.24	34.37	31.39

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	28.69	26.89	25.03	23.40	22.44	21.04	20.31	19.86	19.07
45.0	27.90	26.38	24.08	22.95	21.94	20.70	20.14	19.46	18.84
90.0	28.01	26.16	24.53	23.68	22.44	21.60	20.93	20.36	19.91
135.0	26.27	24.81	23.01	22.05	21.04	20.08	19.52	19.01	18.34
180.0	24.98	23.63	22.28	21.43	20.48	19.97	19.35	18.84	18.56
225.0	26.04	24.08	22.39	21.43	20.48	19.63	19.07	18.51	18.06
270.0	30.32	28.13	26.04	24.41	23.34	21.99	21.21	20.64	20.03
315.0	27.11	25.14	23.18	22.11	21.09	20.08	19.52	18.90	18.51
360.0	28.69	26.89	25.03	23.40	22.44	21.04	20.31	19.86	19.07
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	18.73	18.39	18.06	17.89	17.78	17.49	17.38	17.27	17.04
45.0	18.51	18.23	17.89	17.72	17.55	17.21	17.10	16.99	16.76
90.0	19.52	19.13	18.84	18.56	18.23	18.11	18.06	17.66	17.61
135.0	18.11	17.94	17.66	17.55	17.38	17.10	16.99	16.82	16.71
180.0	18.28	18.06	17.83	17.72	17.38	17.27	17.16	16.99	16.99
225.0	17.72	17.61	17.33	17.21	17.10	16.82	16.76	16.59	16.43
270.0	19.46	19.24	18.84	18.56	18.45	18.11	18.00	17.89	17.49
315.0	18.17	17.89	17.66	17.49	17.33	17.04	16.93	16.82	16.71
360.0	18.73	18.39	18.06	17.89	17.78	17.49	17.38	17.27	17.04
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.04	16.93	16.71	16.31	15.92	15.53	15.19	14.91	14.51
45.0	16.71	16.48	16.09	15.81	15.41	15.02	14.74	14.40	14.06
90.0	17.44	17.04	16.59	16.31	15.75	15.47	15.02	14.68	14.40
135.0	16.71	16.48	16.09	15.75	15.24	14.91	14.63	14.23	13.89
180.0	16.93	16.48	16.14	15.86	15.36	15.08	14.74	14.40	14.12
225.0	16.59	16.20	15.98	15.75	15.24	14.85	14.57	14.18	13.95
270.0	17.55	17.49	16.99	16.65	16.31	15.81	15.53	15.13	14.74
315.0	16.65	16.59	16.09	15.75	15.53	15.08	14.68	14.29	14.01
360.0	17.04	16.93	16.71	16.31	15.92	15.53	15.19	14.91	14.51
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.23	13.95	13.67	13.33	13.05	12.77	12.60	12.38	12.15
45.0	13.73	13.44	13.16	12.83	12.54	12.32	12.09	11.93	11.70
90.0	14.01	13.67	13.39	13.11	12.77	12.60	12.38	12.09	11.87
135.0	13.61	13.33	13.05	12.71	12.49	12.26	12.09	11.93	11.70
180.0	13.78	13.56	13.28	13.11	12.83	12.66	12.43	12.21	11.98
225.0	13.56	13.28	13.05	12.83	12.54	12.38	12.21	11.98	11.76
270.0	14.46	14.12	13.78	13.50	13.16	12.94	12.66	12.43	12.21
315.0	13.73	13.33	13.11	12.83	12.49	12.32	12.09	11.87	11.70
360.0	14.23	13.95	13.67	13.33	13.05	12.77	12.60	12.38	12.15
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.93	11.76	11.53	11.36	11.19	10.97	10.80	10.52	10.18
45.0	11.48	11.31	11.14	10.97	10.80	10.58	10.29	10.07	9.84
90.0	11.64	11.42	11.19	10.91	10.63	10.35	10.07	9.90	9.73
135.0	11.53	11.36	11.14	10.91	10.74	10.46	10.18	9.96	9.79
180.0	11.81	11.59	11.36	11.19	10.97	10.69	10.41	10.07	9.73
225.0	11.59	11.42	11.14	10.97	10.74	10.52	10.29	10.07	9.79
270.0	11.93	11.70	11.42	11.25	10.97	10.63	10.35	10.07	9.90
315.0	11.53	11.36	11.14	10.97	10.86	10.69	10.41	10.24	9.90
360.0	11.93	11.76	11.53	11.36	11.19	10.97	10.80	10.52	10.18

Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	9.90
45.0	9.73
90.0	9.68
135.0	9.68
180.0	9.68
225.0	9.68
270.0	9.73
315.0	9.73
360.0	9.90