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NATA

LumCAT: 3-1938-M
Luminaire: BJB 47.319.2135
Report No: NATA0100
Test No: GC2019012106
LampCAT: PHILIPS Certaflux slm 1205
Lamp flux(lm): 2360.0
Number of Lamps: 1
Length(mm): 78
Phm Type: C

Voltage(V): 36.9500
Current(A): 0.5000
Power (W): 18.4800
PF: 0.0000
Ballast type: DC
Width(mm): 78
Height(mm): 0

Photometric Results

Lumens(lm): 2104.36
Efficiency(%): 89.17%
Lumens(lm)/Power(W): 114.00
Central intensity(cd): 10524.940
Maximum intensity(cd): 10524.940
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=13.3
 [C90/270]Total=13.3
Field angle(10%Imax): [C0/180]Total=56.8
 [C90/270]Total=56.8
Maximum s/h(1/2): C0_180=0.23 C90_270=0.23
Maximum s/h(1/4): C0_180=0.30 C90_270=0.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.27%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.524%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10524.938	2.518	2.518	.107%	.120%
1.0	10380.094	19.866	22.384	.842%	1.064%
2.0	9907.172	37.916	60.3	1.607%	2.865%
3.0	9109.336	52.280	112.58	2.215%	5.350%
4.0	8118.492	62.103	174.683	2.631%	8.301%
5.0	6937.102	66.302	240.985	2.809%	11.452%
6.0	5880.797	67.410	308.395	2.856%	14.655%
7.0	4922.508	65.786	374.18	2.788%	17.781%
8.0	4161.938	63.519	437.699	2.691%	20.800%
9.0	3600.984	61.774	499.473	2.618%	23.735%
10.0	3241.406	61.724	561.197	2.615%	26.668%
11.0	3002.414	62.823	624.021	2.662%	29.654%
12.0	2824.242	64.392	688.413	2.728%	32.714%
13.0	2671.594	65.904	754.317	2.793%	35.845%
14.0	2531.672	67.164	821.48	2.846%	39.037%
15.0	2405.953	68.287	889.767	2.893%	42.282%
16.0	2277.914	68.854	958.621	2.918%	45.554%
17.0	2145.023	68.773	1027.394	2.914%	48.822%
18.0	2016.984	68.350	1095.743	2.896%	52.070%
19.0	1904.063	67.979	1163.722	2.880%	55.301%
20.0	1781.438	66.815	1230.537	2.831%	58.476%
21.0	1671.258	65.679	1296.216	2.783%	61.597%
22.0	1578.656	64.851	1361.067	2.748%	64.678%
23.0	1478.883	63.367	1424.434	2.685%	67.690%
24.0	1386.422	61.839	1486.273	2.620%	70.628%
25.0	1303.664	60.418	1546.69	2.560%	73.499%
26.0	1215.640	58.438	1605.129	2.476%	76.276%
27.0	1147.134	57.110	1662.239	2.420%	78.990%
28.0	1082.011	55.705	1717.944	2.360%	81.637%
29.0	1012.141	53.810	1771.754	2.280%	84.194%
30.0	947.566	51.955	1823.709	2.202%	86.663%
31.0	869.850	49.129	1872.838	2.082%	88.998%
32.0	750.277	43.600	1916.438	1.847%	91.070%
33.0	630.527	37.659	1954.096	1.596%	92.859%
34.0	504.176	30.917	1985.013	1.310%	94.329%
35.0	374.266	23.541	2008.554	.997%	95.447%
36.0	262.941	16.948	2025.503	.718%	96.253%
37.0	172.983	11.416	2036.919	.484%	96.795%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	83.827	5.659	2042.578	.240%	97.064%
39.0	47.855	3.303	2045.881	.140%	97.221%
40.0	38.355	2.704	2048.584	.115%	97.350%
41.0	33.082	2.380	2050.964	.101%	97.463%
42.0	28.484	2.090	2053.054	.089%	97.562%
43.0	25.010	1.870	2054.925	.079%	97.651%
44.0	22.289	1.698	2056.623	.072%	97.732%
45.0	20.039	1.554	2058.177	.066%	97.805%
46.0	18.541	1.463	2059.639	.062%	97.875%
47.0	17.234	1.382	2061.021	.059%	97.941%
48.0	16.186	1.319	2062.34	.056%	98.003%
49.0	15.363	1.271	2063.612	.054%	98.064%
50.0	14.674	1.233	2064.845	.052%	98.122%
51.0	14.091	1.201	2066.046	.051%	98.179%
52.0	13.549	1.171	2067.216	.050%	98.235%
53.0	13.001	1.139	2068.355	.048%	98.289%
54.0	12.488	1.108	2069.463	.047%	98.342%
55.0	12.094	1.086	2070.549	.046%	98.393%
56.0	11.707	1.064	2071.613	.045%	98.444%
57.0	11.348	1.044	2072.657	.044%	98.494%
58.0	11.053	1.028	2073.685	.044%	98.542%
59.0	10.786	1.014	2074.699	.043%	98.591%
60.0	10.533	1.000	2075.699	.042%	98.638%
61.0	10.329	0.991	2076.69	.042%	98.685%
62.0	10.146	0.982	2077.672	.042%	98.732%
63.0	9.991	0.976	2078.649	.041%	98.778%
64.0	9.858	0.972	2079.62	.041%	98.824%
65.0	9.738	0.968	2080.588	.041%	98.870%
66.0	9.647	0.966	2081.554	.041%	98.916%
67.0	9.548	0.964	2082.518	.041%	98.962%
68.0	9.478	0.964	2083.482	.041%	99.008%
69.0	9.415	0.964	2084.446	.041%	99.054%
70.0	9.359	0.964	2085.41	.041%	99.100%
71.0	9.302	0.965	2086.375	.041%	99.145%
72.0	9.253	0.965	2087.34	.041%	99.191%
73.0	9.218	0.967	2088.307	.041%	99.237%
74.0	9.176	0.967	2089.274	.041%	99.283%
75.0	9.148	0.969	2090.243	.041%	99.329%

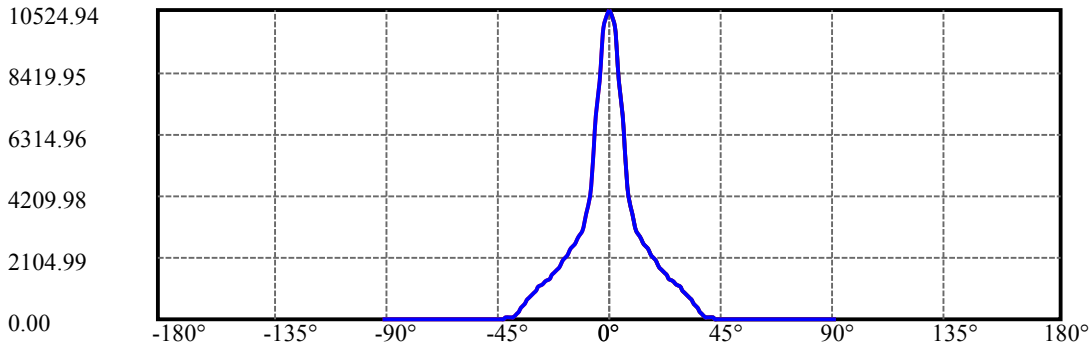
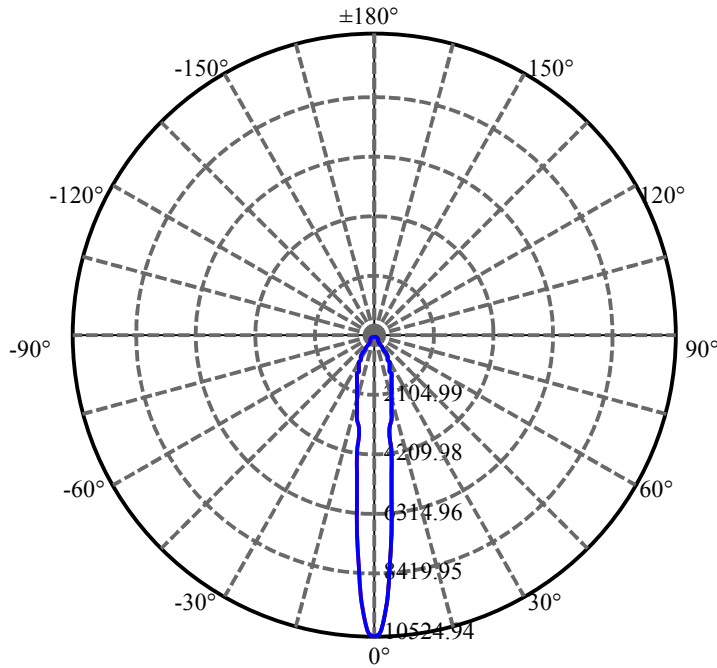
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.098	0.968	2091.211	.041%	99.375%
77.0	9.098	0.972	2092.183	.041%	99.421%
78.0	9.049	0.971	2093.154	.041%	99.468%
79.0	9.035	0.973	2094.126	.041%	99.514%
80.0	9.007	0.973	2095.099	.041%	99.560%
81.0	8.993	0.974	2096.073	.041%	99.606%
82.0	8.979	0.975	2097.048	.041%	99.653%
83.0	8.951	0.974	2098.022	.041%	99.699%
84.0	8.951	0.976	2098.998	.041%	99.745%
85.0	8.930	0.976	2099.974	.041%	99.792%
86.0	8.909	0.975	2100.949	.041%	99.838%
87.0	8.909	0.976	2101.924	.041%	99.884%
88.0	8.895	0.975	2102.899	.041%	99.931%
89.0	8.873	0.973	2103.872	.041%	99.977%
90.0	8.873	0.487	2104.358	.021%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1823.71	77.28%	86.66%
0-40	2048.58	86.80%	97.35%
0-60	2075.70	87.95%	98.64%
0-90	2103.87	89.15%	99.98%
0-120	2103.87	89.15%	99.98%
0-180	2104.36	89.17%	100.00%
60-90	29.17	1.24%	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%
0-27.38	1683.49	71.33%	80.00%

ZONAL LUMEN SUMMARY

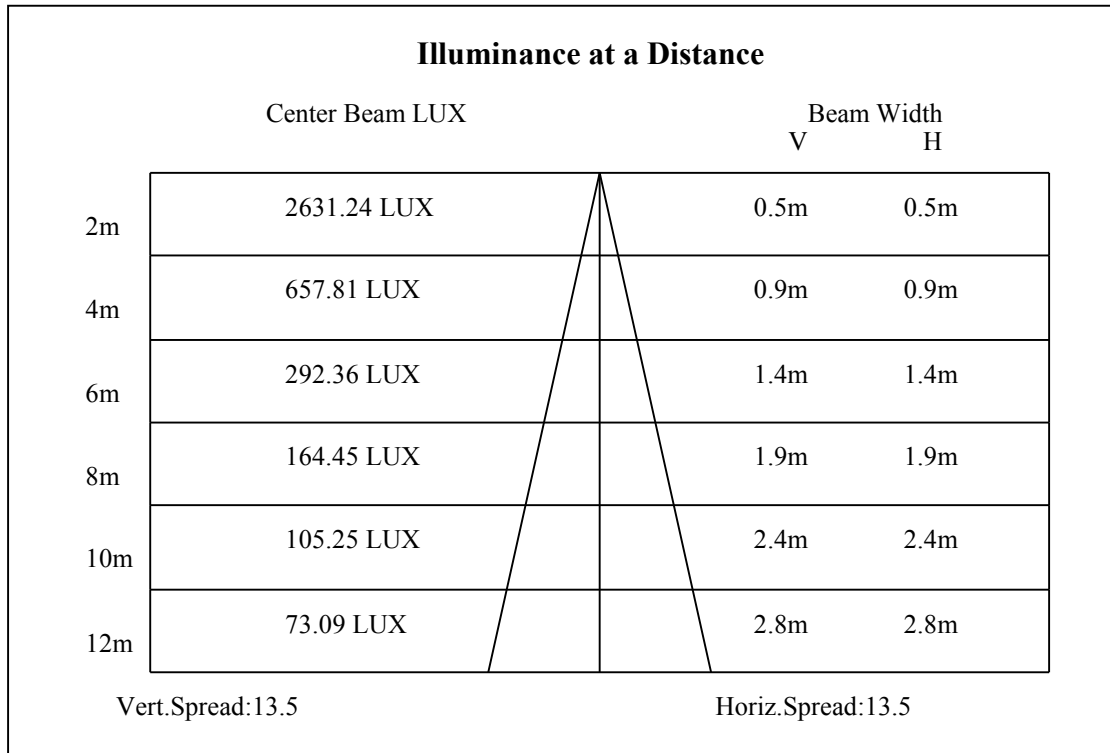
0-10	561.20
10-20	669.34
20-30	593.17
30-40	224.87
40-50	16.26
50-60	10.85
60-70	9.71
70-80	9.69
80-90	8.77
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

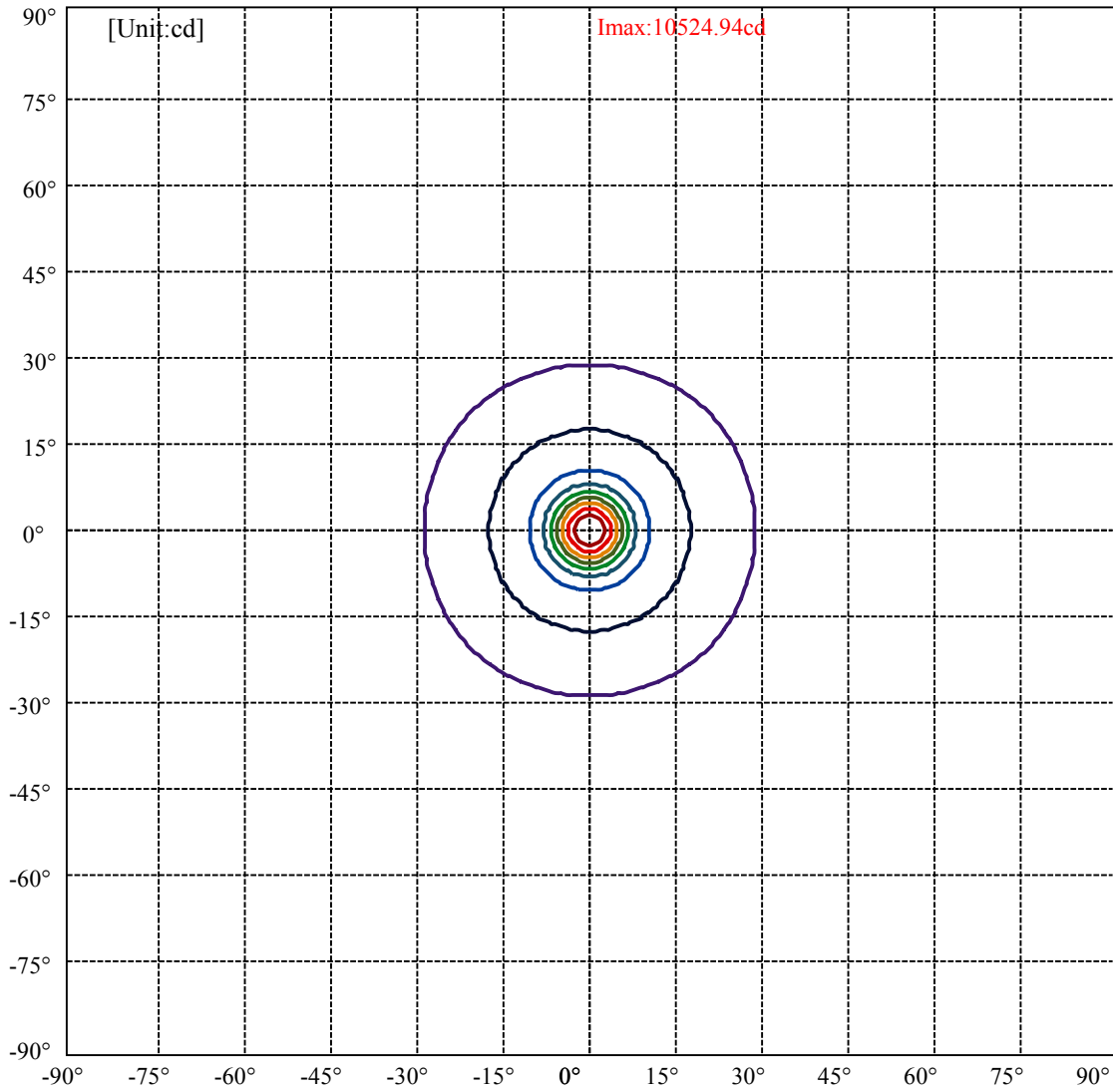


C0(Max): ———
C0/C180: ———
C90/C270: ———

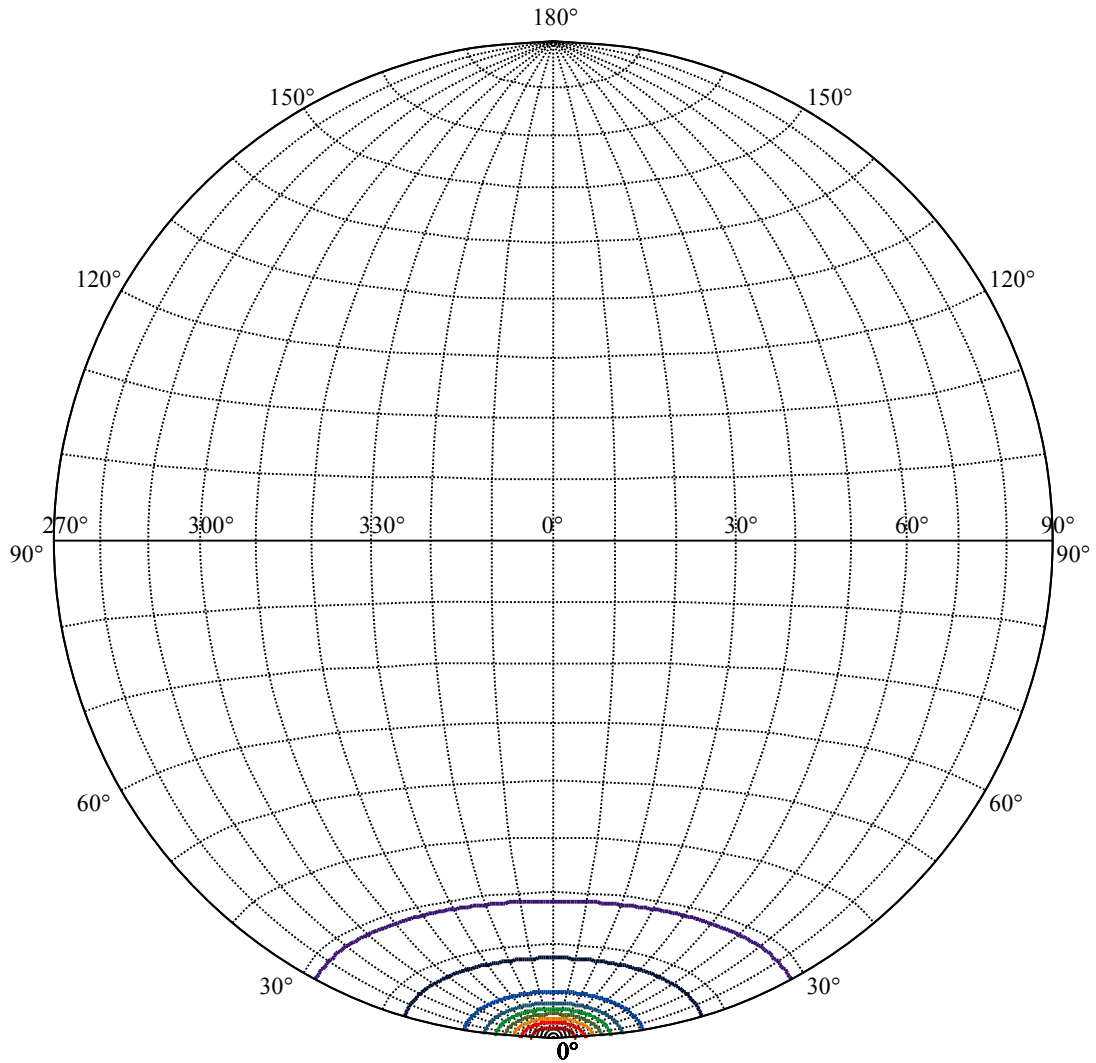
Field angle(10%Imax):C0/180Left:28.4 Right:28.4
:C90/270Left:28.4 Right:28.4

Beam Angle(50%Imax):C0/180Left:6.6 Right:6.6
:C90/270Left:6.6 Right:6.6





(10%Imax) 1052.49	—
(20%Imax) 2104.99	—
(30%Imax) 3157.48	—
(40%Imax) 4209.98	—
(50%Imax) 5262.47	—
(60%Imax) 6314.96	—
(70%Imax) 7367.46	—
(80%Imax) 8419.95	—
(90%Imax) 9472.44	—



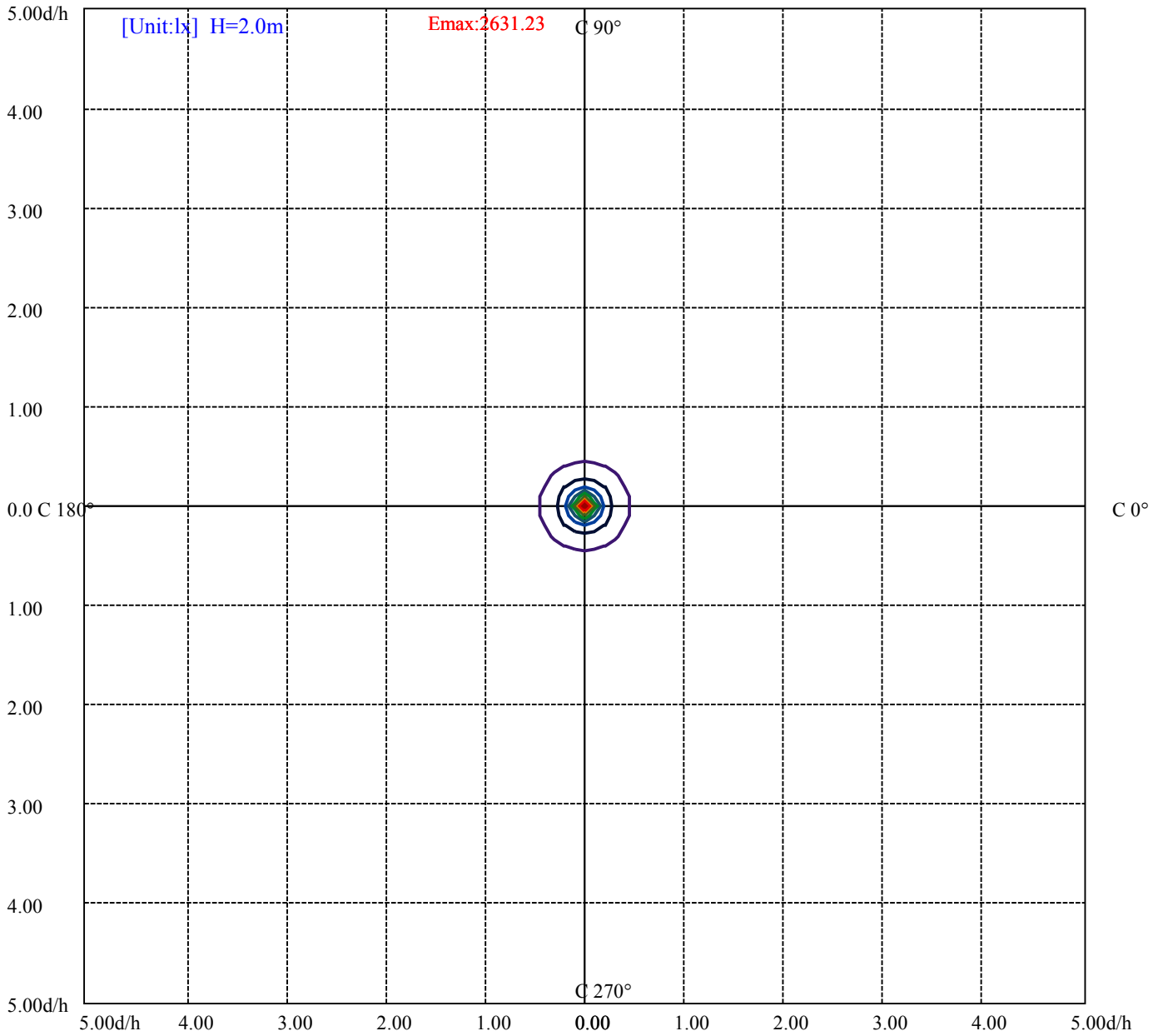
House

[Unit:cd]

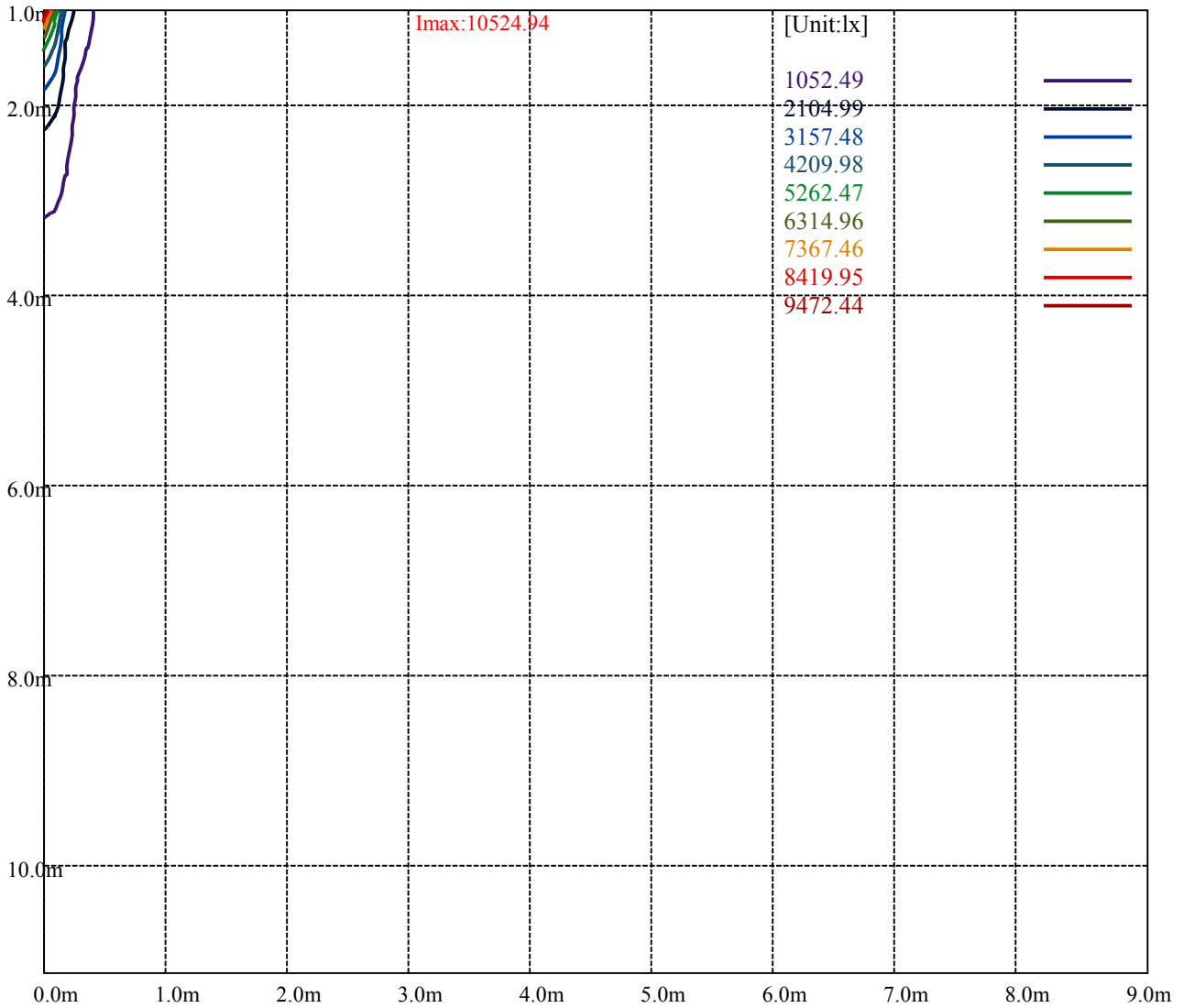
Road

Imax:10524.94

(10%Imax) 1052.49	—
(20%Imax) 2104.99	—
(30%Imax) 3157.48	—
(40%Imax) 4209.98	—
(50%Imax) 5262.47	—
(60%Imax) 6314.96	—
(70%Imax) 7367.46	—
(80%Imax) 8419.95	—
(90%Imax) 9472.44	—



(10%Emax) 263.1225	—
(20%Emax) 526.245	—
(30%Emax) 789.37	—
(40%Emax) 1052.493	—
(50%Emax) 1315.615	—
(60%Emax) 1578.738	—
(70%Emax) 1841.86	—
(80%Emax) 2104.982	—
(90%Emax) 2368.107	—



Luminance Table

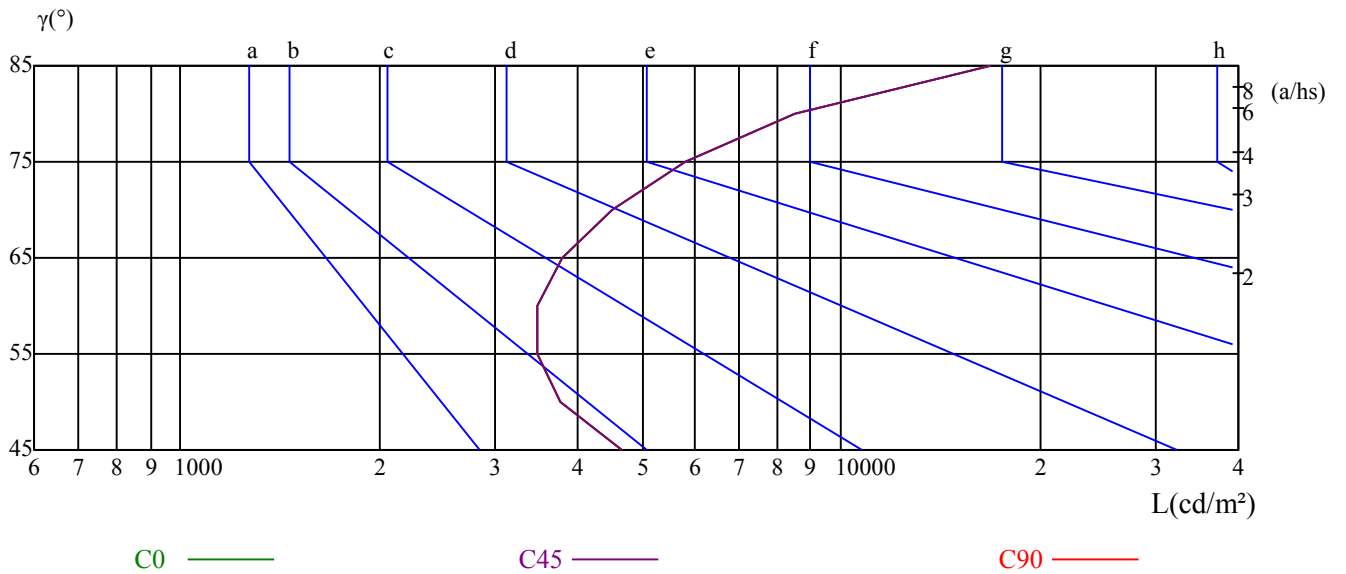
γ	45	50	55	60	65	70	75	80	85
C0	4658	3752	3466	3462	3787	4497	5809	8526	16840
C45	4658	3752	3466	3462	3787	4497	5809	8526	16840
C90	4658	3752	3466	3462	3787	4497	5809	8526	16840

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3787	3787	3787	5809	5809	5809	16840	16840	16840

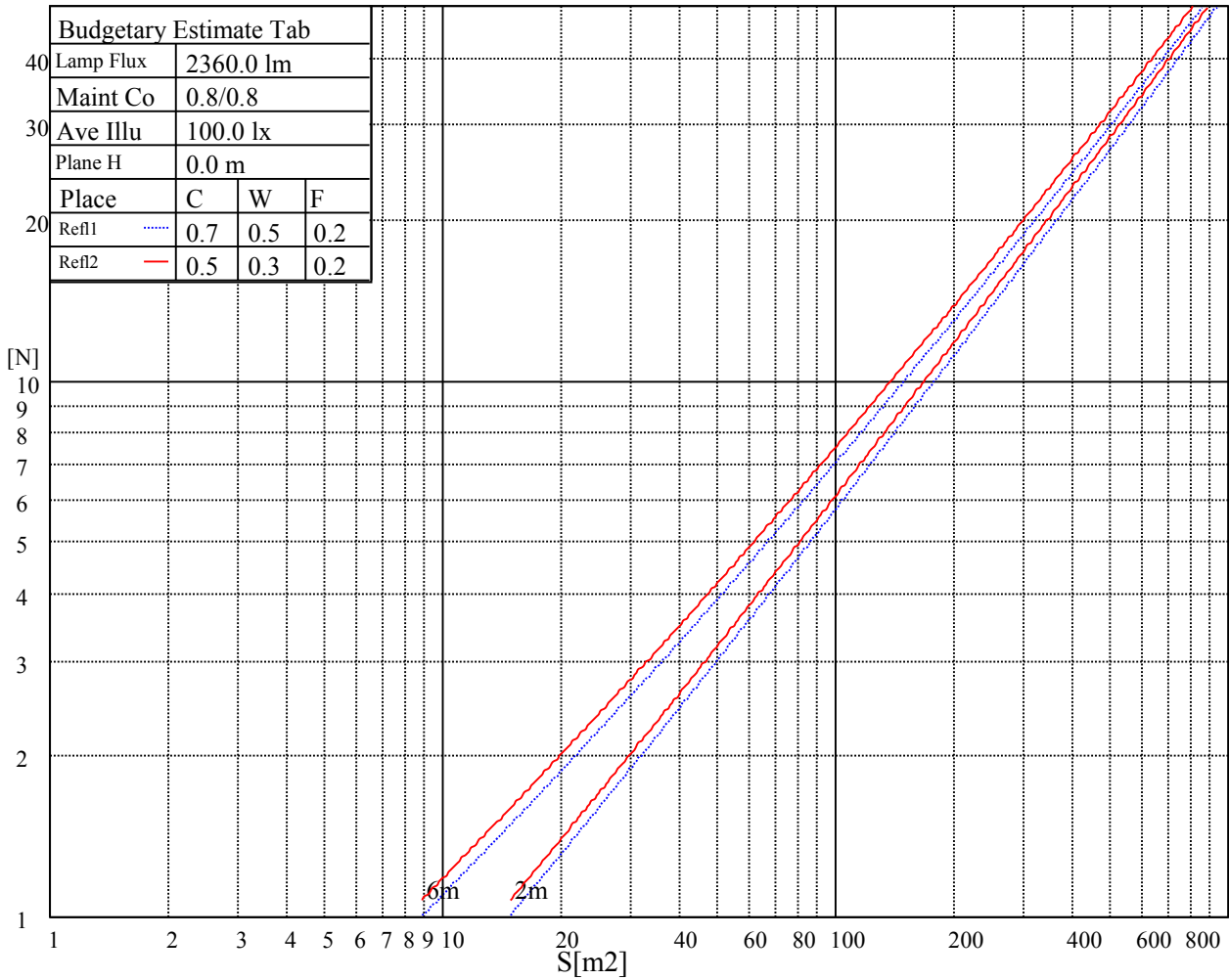
Glare Table

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

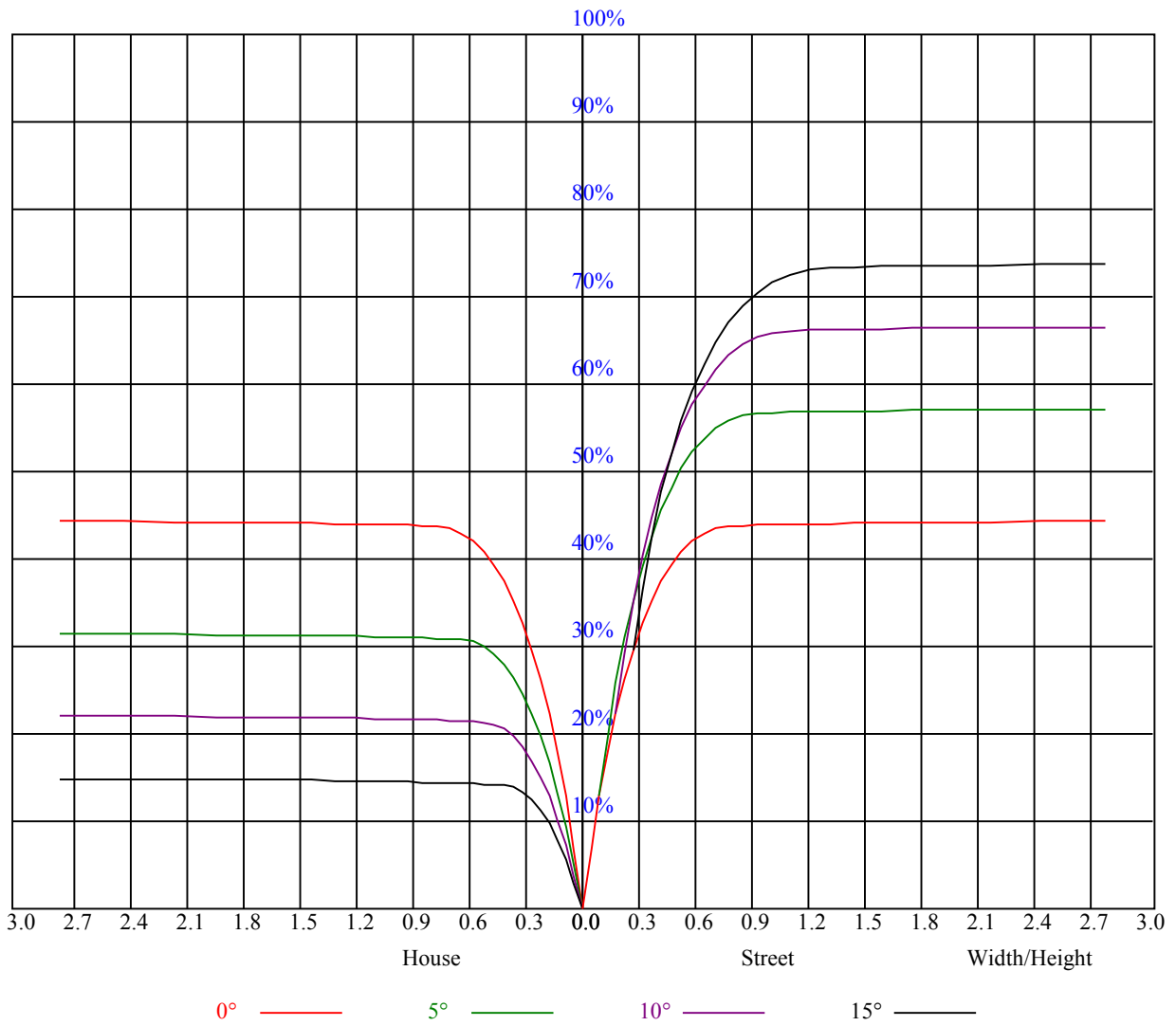
Luminance Limiting Curve



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	2.92	3.83	3.28	4.15	4.46	2.90	3.81	3.26	4.12	4.44
	3H	5.69	6.50	6.07	6.83	7.20	5.68	6.48	6.06	6.82	7.19
	4H	7.28	8.03	7.69	8.38	8.78	7.27	8.02	7.68	8.37	8.76
	6H	9.13	9.82	9.55	10.19	10.59	9.13	9.82	9.55	10.19	10.59
	8H	10.18	10.82	10.62	11.21	11.62	10.19	10.83	10.62	11.22	11.63
	12H	11.90	12.51	12.33	12.89	13.32	11.91	12.52	12.35	12.91	13.34
4H	2H	3.65	4.40	4.06	4.75	5.15	3.64	4.38	4.05	4.74	5.13
	3H	6.74	7.35	7.15	7.76	8.16	6.73	7.34	7.14	7.75	8.15
	4H	8.53	9.07	8.96	9.50	9.95	8.51	9.06	8.95	9.48	9.93
	6H	10.57	11.03	11.04	11.49	11.96	10.56	11.03	11.03	11.48	11.96
	8H	11.72	12.16	12.20	12.61	13.08	11.72	12.16	12.20	12.61	13.09
	12H	13.35	13.72	13.84	14.21	14.69	13.36	13.73	13.85	14.22	14.70
8H	4H	9.22	9.65	9.69	10.10	10.58	9.20	9.64	9.68	10.09	10.57
	6H	11.54	11.89	12.05	12.39	12.88	11.54	11.88	12.05	12.39	12.87
	8H	12.89	13.19	13.43	13.72	14.22	12.89	13.20	13.43	13.72	14.22
	12H	14.67	14.93	15.19	15.43	16.01	14.67	14.93	15.20	15.43	16.02
12H	4H	9.41	9.79	9.91	10.28	10.76	9.40	9.78	9.89	10.27	10.74
	6H	12.05	12.16	12.39	12.63	13.18	12.05	12.15	12.39	12.63	13.18
	8H	13.33	13.59	13.86	14.09	14.67	13.34	13.60	13.86	14.10	14.68
Variation with the observer position at spacings:											
S = 1.0H	6.2/-6.8					6.2/-6.8					
S = 1.5H	8.3/-5.0					8.3/-5.0					
S = 2.0H	9.5/-3.8					9.5/-3.8					
Standard tables:	BK3					BK3					
Uncorrected UGR	0.4					0.4					



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	0.96	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.84
2	0.94	0.91	0.88	0.92	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.78	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
6	0.77	0.73	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
7	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.61
9	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59
10	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.57



NATA 3-1938-M

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	10473.75	10591.88	10370.25	9902.81	9154.69	8051.06	6879.94	5905.69	4942.13
45.0	10520.44	10586.81	10377.00	9773.44	9012.94	7918.88	6742.69	5747.63	4887.00
90.0	10543.50	10352.81	9838.13	8986.50	8020.69	6840.56	5838.19	4841.44	4052.81
135.0	10562.06	10404.00	9811.69	9050.06	8056.13	6737.06	5741.44	4845.94	4051.13
180.0	10473.75	10096.88	9327.94	8232.19	7149.94	5968.13	4917.94	4147.88	3539.25
225.0	10520.44	10072.13	9467.44	8381.25	7003.69	6054.75	5081.63	4015.69	3547.13
270.0	10543.50	10477.69	10020.94	9288.56	8265.94	6862.50	5808.94	4872.38	4101.75
315.0	10562.06	10458.56	10044.00	9259.88	8283.94	7063.88	6035.63	5003.44	4174.31
360.0	10473.75	10591.88	10370.25	9902.81	9154.69	8051.06	6879.94	5905.69	4942.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4182.75	3701.81	3339.56	3113.44	2916.56	2748.38	2606.06	2466.00	2301.19
45.0	4049.44	3579.19	3260.81	3014.44	2830.50	2690.44	2543.06	2401.31	2274.75
90.0	3562.31	3203.44	2969.44	2811.38	2678.06	2522.81	2401.88	2277.56	2133.56
135.0	3516.75	3204.56	2963.81	2801.81	2652.75	2515.50	2399.63	2269.13	2136.94
180.0	3197.25	2945.81	2766.38	2634.75	2500.31	2372.63	2262.38	2149.88	2006.44
225.0	3191.06	2887.88	2749.50	2615.63	2480.06	2353.50	2244.94	2117.25	2003.06
270.0	3450.94	3130.31	2940.75	2737.13	2589.75	2484.56	2343.38	2220.19	2122.88
315.0	3657.38	3278.25	3029.06	2865.38	2724.75	2565.56	2446.31	2322.00	2181.38
360.0	4182.75	3701.81	3339.56	3113.44	2916.56	2748.38	2606.06	2466.00	2301.19
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2178.56	2059.88	1922.06	1816.31	1715.63	1605.94	1504.13	1418.06	1327.50
45.0	2127.94	2004.19	1868.63	1733.63	1638.00	1533.94	1419.19	1333.69	1256.06
90.0	1994.63	1877.63	1751.63	1637.44	1541.25	1441.69	1357.88	1271.81	1196.44
135.0	2017.69	1906.88	1767.38	1666.69	1575.56	1469.25	1370.25	1289.81	1208.81
180.0	1896.75	1792.69	1668.94	1573.88	1485.00	1382.06	1303.31	1230.19	1114.20
225.0	1882.69	1768.50	1672.88	1573.88	1490.06	1400.63	1325.25	1238.06	1118.98
270.0	1987.31	1884.38	1782.00	1662.19	1571.63	1485.56	1384.31	1308.38	1245.38
315.0	2050.31	1938.38	1818.00	1706.06	1612.13	1512.00	1427.06	1339.31	1257.75
360.0	2178.56	2059.88	1922.06	1816.31	1715.63	1605.94	1504.13	1418.06	1327.50
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1251.00	1170.56	1096.88	1031.06	960.75	874.13	763.88	642.94	486.56
45.0	1169.44	1105.31	1042.31	973.69	911.25	837.56	716.63	584.44	468.00
90.0	1115.94	1071.17	996.98	941.96	883.24	748.52	631.13	510.02	375.64
135.0	1131.75	1065.38	993.38	935.44	851.63	726.75	605.25	470.81	342.56
180.0	1081.01	1008.62	947.59	863.94	757.46	625.50	491.63	373.84	254.93
225.0	1103.12	1039.61	965.53	899.83	802.80	655.48	534.32	410.68	284.40
270.0	1150.31	1086.19	1023.75	957.94	884.25	779.63	652.50	518.06	398.25
315.0	1174.50	1109.25	1030.73	976.67	907.43	754.65	648.90	522.62	383.79
360.0	1251.00	1170.56	1096.88	1031.06	960.75	874.13	763.88	642.94	486.56
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	360.56	289.13	150.08	65.14	43.54	37.52	31.67	27.62	24.41
45.0	337.50	293.06	128.14	64.41	43.31	36.62	30.99	27.23	24.24
90.0	250.71	160.03	77.23	44.33	37.97	32.74	28.80	25.09	22.05
135.0	289.69	141.86	73.29	43.03	37.74	32.74	27.90	24.98	22.50
180.0	151.76	80.44	45.00	37.41	32.74	28.63	24.98	22.16	20.25
225.0	173.48	94.11	45.51	38.98	33.86	29.14	25.59	22.50	20.14
270.0	285.75	167.91	77.12	44.89	39.04	34.20	29.08	25.65	22.89
315.0	254.08	157.33	74.25	44.66	38.64	33.08	28.86	24.86	21.83
360.0	360.56	289.13	150.08	65.14	43.54	37.52	31.67	27.62	24.41

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	21.54	19.41	18.00	16.71	15.81	15.02	14.34	13.84	13.22
45.0	21.21	19.63	18.34	17.04	15.81	15.08	14.46	13.89	13.28
90.0	20.03	18.62	17.16	16.20	15.36	14.57	14.01	13.44	12.83
135.0	20.08	18.73	17.38	16.26	15.47	14.91	14.34	13.73	13.11
180.0	18.79	17.27	16.20	15.36	14.79	14.12	13.50	12.99	12.54
225.0	18.79	17.61	16.37	15.64	15.02	14.34	13.84	13.33	12.83
270.0	20.19	18.84	17.66	16.43	15.53	14.96	14.34	13.78	13.28
315.0	19.69	18.23	16.76	15.86	15.13	14.40	13.89	13.39	12.94
360.0	21.54	19.41	18.00	16.71	15.81	15.02	14.34	13.84	13.22
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.66	12.26	11.93	11.48	11.14	10.91	10.58	10.41	10.18
45.0	12.71	12.26	11.87	11.48	11.14	10.86	10.58	10.41	10.18
90.0	12.38	11.98	11.53	11.31	10.97	10.69	10.52	10.29	10.07
135.0	12.54	12.15	11.70	11.36	11.08	10.80	10.58	10.35	10.18
180.0	12.09	11.70	11.42	11.08	10.86	10.63	10.41	10.18	10.07
225.0	12.32	11.98	11.59	11.25	10.97	10.69	10.46	10.24	10.07
270.0	12.77	12.38	11.93	11.53	11.25	10.91	10.63	10.46	10.29
315.0	12.43	12.04	11.70	11.31	11.03	10.80	10.52	10.29	10.13
360.0	12.66	12.26	11.93	11.48	11.14	10.91	10.58	10.41	10.18
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.01	9.90	9.73	9.68	9.51	9.51	9.45	9.39	9.28
45.0	10.01	9.90	9.79	9.68	9.56	9.51	9.39	9.34	9.34
90.0	9.96	9.84	9.68	9.62	9.51	9.45	9.34	9.34	9.28
135.0	10.01	9.84	9.73	9.62	9.56	9.45	9.39	9.34	9.28
180.0	9.90	9.79	9.68	9.62	9.51	9.39	9.39	9.34	9.28
225.0	10.01	9.84	9.73	9.62	9.56	9.51	9.45	9.39	9.34
270.0	10.07	9.90	9.79	9.73	9.62	9.56	9.45	9.39	9.34
315.0	9.96	9.84	9.79	9.62	9.56	9.45	9.45	9.34	9.28
360.0	10.01	9.90	9.73	9.68	9.51	9.51	9.45	9.39	9.28
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.23	9.23	9.23	9.11	9.11	9.11	9.11	9.06	9.06
45.0	9.28	9.23	9.23	9.17	9.11	9.11	9.06	9.00	9.00
90.0	9.23	9.23	9.11	9.11	9.06	9.06	9.00	9.00	8.94
135.0	9.28	9.23	9.17	9.11	9.06	9.11	9.06	9.06	9.00
180.0	9.23	9.17	9.17	9.17	9.11	9.11	9.06	9.06	9.00
225.0	9.28	9.23	9.17	9.17	9.11	9.11	9.06	9.06	9.06
270.0	9.28	9.23	9.17	9.17	9.11	9.11	9.06	9.06	9.00
315.0	9.23	9.23	9.17	9.17	9.11	9.06	9.00	9.00	9.00
360.0	9.23	9.23	9.23	9.11	9.11	9.11	9.11	9.06	9.06
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.00	9.00	9.00	9.00	8.94	8.89	8.94	8.94	8.89
45.0	9.00	9.00	8.94	8.94	8.94	8.94	8.94	8.89	8.89
90.0	8.94	8.94	8.94	8.94	8.89	8.89	8.89	8.89	8.89
135.0	9.00	8.94	8.94	8.94	8.89	8.89	8.89	8.89	8.89
180.0	9.00	8.94	8.94	8.94	8.94	8.94	8.94	8.89	8.89
225.0	9.00	9.00	8.94	8.94	8.94	8.94	8.89	8.89	8.89
270.0	9.00	9.00	8.94	8.89	8.94	8.89	8.89	8.89	8.83
315.0	9.00	9.00	8.94	9.00	8.94	8.89	8.89	8.89	8.83
360.0	9.00	9.00	9.00	9.00	8.94	8.89	8.94	8.94	8.89

Intensity data(cd)

C/γ(°)	90.0
0.0	8.89
45.0	8.89
90.0	8.83
135.0	8.83
180.0	8.89
225.0	8.89
270.0	8.89
315.0	8.89
360.0	8.89