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NATA

LumCAT: 1450-E	
Luminaire: 92.70.044.00	
Report No: NATA0100	Voltage(V): 35.2000
Test No: GC2019011210	Current(A): 0.1500
LampCAT: LUMILEDS LUXEON 1202S	Power (W): 5.2800
Lamp flux(lm): 805.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 44	Width(mm): 44
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 713.35
Efficiency(%): 88.62%
Lumens(lm)/Power(W): 135.20
Central intensity(cd): 2255.484
Maximum intensity(cd): 2255.484
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=22.8
 [C90/270]Total=22.8
Field angle(10%Imax): [C0/180]Total=68.7
 [C90/270]Total=68.7
Maximum s/h(1/2): C0_180=0.38 C90_270=0.38
Maximum s/h(1/4): C0_180=0.44 C90_270=0.44
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.68%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.203%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2255.484	0.540	0.54	.067%	.076%
1.0	2243.320	4.293	4.833	.533%	.678%
2.0	2205.141	8.439	13.272	1.048%	1.861%
3.0	2140.383	12.284	25.556	1.526%	3.583%
4.0	2057.836	15.742	41.298	1.955%	5.789%
5.0	1957.992	18.714	60.012	2.325%	8.413%
6.0	1841.625	21.110	81.122	2.622%	11.372%
7.0	1700.367	22.724	103.846	2.823%	14.557%
8.0	1571.766	23.988	127.834	2.980%	17.920%
9.0	1429.523	24.523	152.357	3.046%	21.358%
10.0	1274.948	24.278	176.635	3.016%	24.761%
11.0	1165.992	24.398	201.033	3.031%	28.181%
12.0	1066.395	24.314	225.346	3.020%	31.590%
13.0	960.279	23.688	249.035	2.943%	34.911%
14.0	874.877	23.210	272.245	2.883%	38.164%
15.0	799.748	22.699	294.943	2.820%	41.346%
16.0	723.769	21.877	316.82	2.718%	44.413%
17.0	663.743	21.281	338.101	2.644%	47.396%
18.0	604.357	20.480	358.581	2.544%	50.267%
19.0	549.661	19.624	378.205	2.438%	53.018%
20.0	502.348	18.841	397.046	2.341%	55.659%
21.0	460.441	18.095	415.141	2.248%	58.196%
22.0	423.605	17.402	432.543	2.162%	60.635%
23.0	395.733	16.956	449.499	2.106%	63.012%
24.0	369.134	16.465	465.963	2.045%	65.320%
25.0	345.291	16.002	481.966	1.988%	67.564%
26.0	327.558	15.746	497.712	1.956%	69.771%
27.0	310.184	15.442	513.155	1.918%	71.936%
28.0	294.223	15.147	528.302	1.882%	74.059%
29.0	281.503	14.966	543.268	1.859%	76.157%
30.0	271.589	14.891	558.159	1.850%	78.245%
31.0	263.672	14.892	573.052	1.850%	80.332%
32.0	256.402	14.900	587.951	1.851%	82.421%
33.0	247.366	14.774	602.725	1.835%	84.492%
34.0	232.109	14.233	616.959	1.768%	86.487%
35.0	212.836	13.387	630.346	1.663%	88.364%
36.0	189.823	12.235	642.581	1.520%	90.079%
37.0	164.461	10.854	653.435	1.348%	91.601%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	138.459	9.348	662.783	1.161%	92.911%
39.0	111.502	7.695	670.478	.956%	93.990%
40.0	85.254	6.009	676.487	.747%	94.832%
41.0	62.536	4.499	680.986	.559%	95.463%
42.0	43.158	3.167	684.153	.393%	95.907%
43.0	27.731	2.074	686.227	.258%	96.198%
44.0	21.987	1.675	687.902	.208%	96.432%
45.0	19.758	1.532	689.434	.190%	96.647%
46.0	18.942	1.494	690.928	.186%	96.857%
47.0	17.754	1.424	692.352	.177%	97.056%
48.0	16.348	1.332	693.684	.165%	97.243%
49.0	13.549	1.121	694.806	.139%	97.400%
50.0	9.028	0.758	695.564	.094%	97.507%
51.0	7.341	0.626	696.19	.078%	97.594%
52.0	7.045	0.609	696.799	.076%	97.680%
53.0	6.799	0.595	697.394	.074%	97.763%
54.0	6.525	0.579	697.973	.072%	97.844%
55.0	6.258	0.562	698.535	.070%	97.923%
56.0	5.927	0.539	699.074	.067%	97.999%
57.0	5.653	0.520	699.594	.065%	98.071%
58.0	5.365	0.499	700.093	.062%	98.141%
59.0	5.084	0.478	700.571	.059%	98.208%
60.0	4.859	0.461	701.032	.057%	98.273%
61.0	4.648	0.446	701.478	.055%	98.336%
62.0	4.521	0.438	701.916	.054%	98.397%
63.0	4.423	0.432	702.348	.054%	98.457%
64.0	4.373	0.431	702.779	.054%	98.518%
65.0	4.338	0.431	703.21	.054%	98.578%
66.0	4.303	0.431	703.641	.054%	98.639%
67.0	4.282	0.432	704.073	.054%	98.699%
68.0	4.247	0.432	704.505	.054%	98.760%
69.0	4.233	0.433	704.938	.054%	98.821%
70.0	4.177	0.430	705.369	.053%	98.881%
71.0	4.127	0.428	705.797	.053%	98.941%
72.0	4.092	0.427	706.224	.053%	99.001%
73.0	4.050	0.425	706.648	.053%	99.060%
74.0	4.022	0.424	707.072	.053%	99.120%
75.0	4.008	0.425	707.497	.053%	99.179%

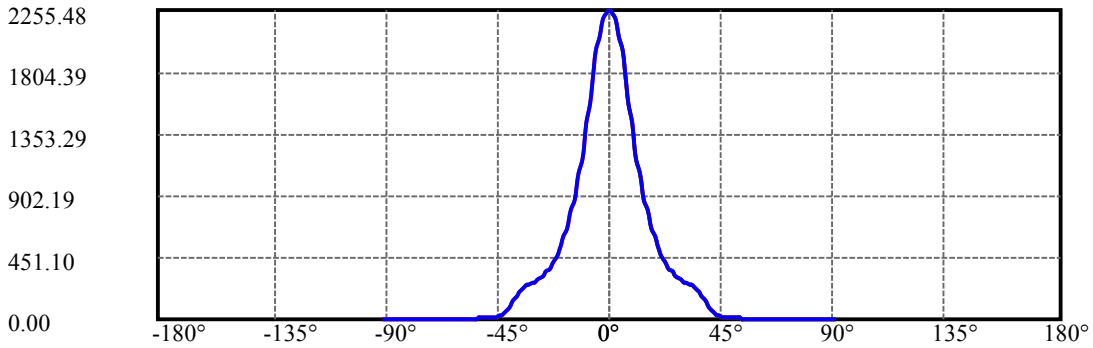
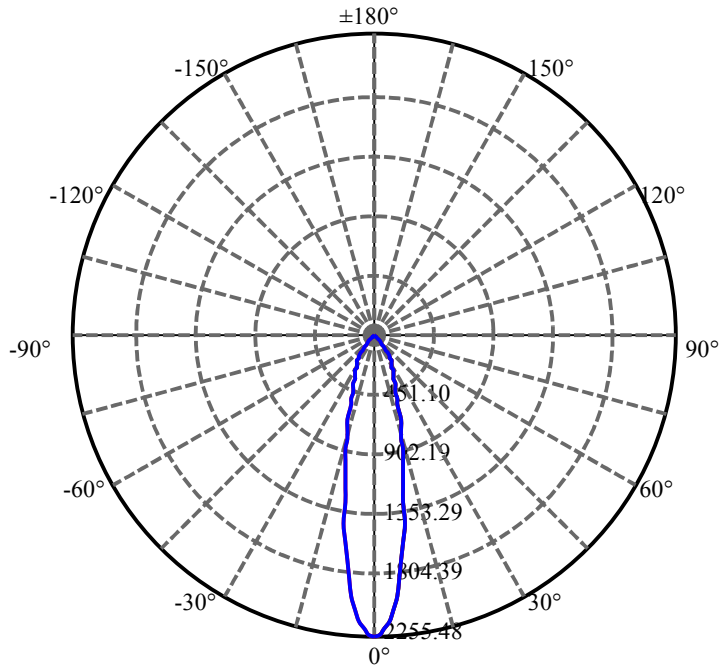
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.015	0.427	707.924	.053%	99.239%
77.0	4.064	0.434	708.358	.054%	99.300%
78.0	4.163	0.446	708.805	.055%	99.363%
79.0	4.261	0.459	709.263	.057%	99.427%
80.0	4.219	0.456	709.719	.057%	99.491%
81.0	4.057	0.439	710.158	.055%	99.552%
82.0	3.705	0.402	710.561	.050%	99.609%
83.0	3.544	0.386	710.946	.048%	99.663%
84.0	3.509	0.383	711.329	.048%	99.717%
85.0	3.516	0.384	711.713	.048%	99.770%
86.0	3.586	0.392	712.105	.049%	99.825%
87.0	3.621	0.397	712.502	.049%	99.881%
88.0	3.263	0.358	712.86	.044%	99.931%
89.0	3.052	0.335	713.194	.042%	99.978%
90.0	2.869	0.157	713.351	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	558.16	69.34%	78.24%
0-40	676.49	84.04%	94.83%
0-60	701.03	87.08%	98.27%
0-90	713.19	88.60%	99.98%
0-120	713.19	88.60%	99.98%
0-180	713.35	88.62%	100.00%
60-90	12.62	1.57%	1.77%
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%
0-30.84	570.68	70.89%	80.00%

ZONAL LUMEN SUMMARY

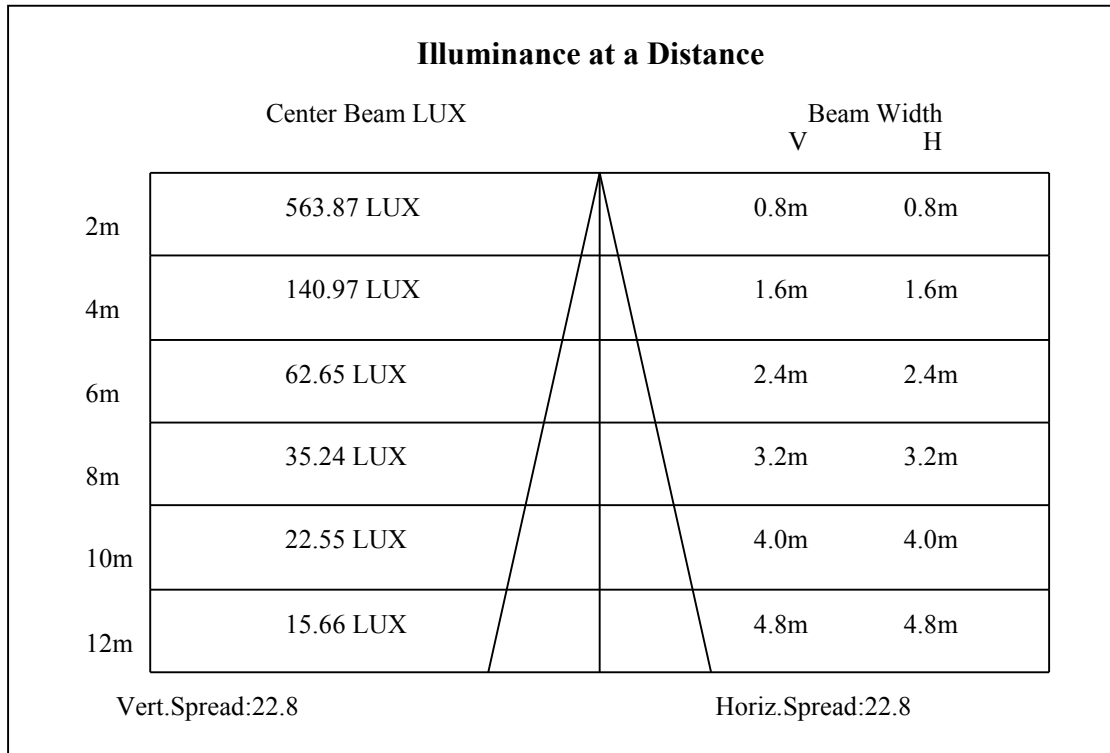
0-10	176.64
10-20	220.41
20-30	161.11
30-40	118.33
40-50	19.08
50-60	5.47
60-70	4.34
70-80	4.35
80-90	3.48
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

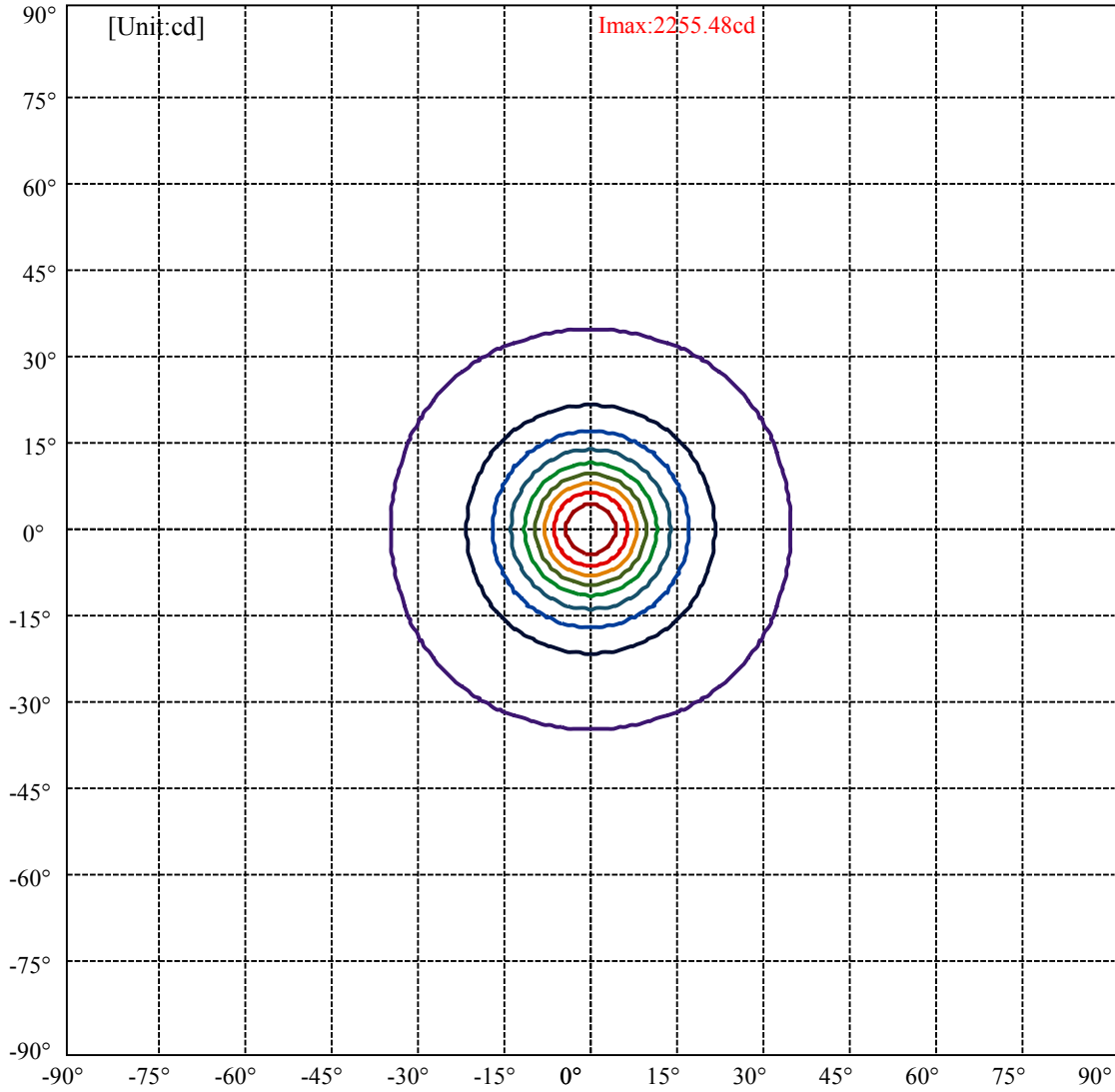


C0(Max): —————
C0/C180: —————
C90/C270: —————

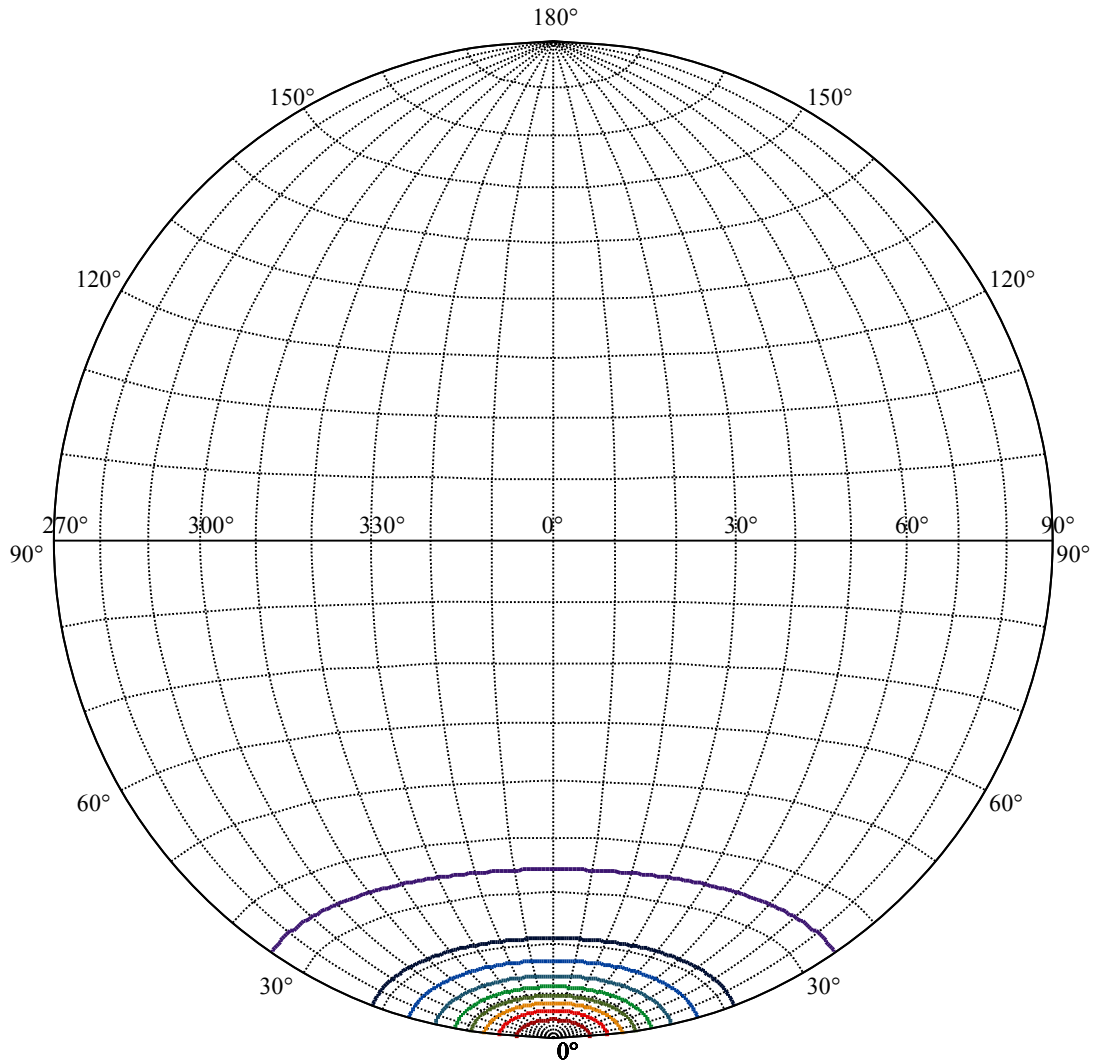
Field angle(10%Imax):C0/180Left:34.3 Right:34.3
:C90/270Left:34.3 Right:34.3

Beam Angle(50%Imax):C0/180Left:11.4 Right:11.4
:C90/270Left:11.4 Right:11.4





(10%Imax) 225.548	—
(20%Imax) 451.097	—
(30%Imax) 676.645	—
(40%Imax) 902.194	—
(50%Imax) 1127.74	—
(60%Imax) 1353.29	—
(70%Imax) 1578.84	—
(80%Imax) 1804.39	—
(90%Imax) 2029.94	—



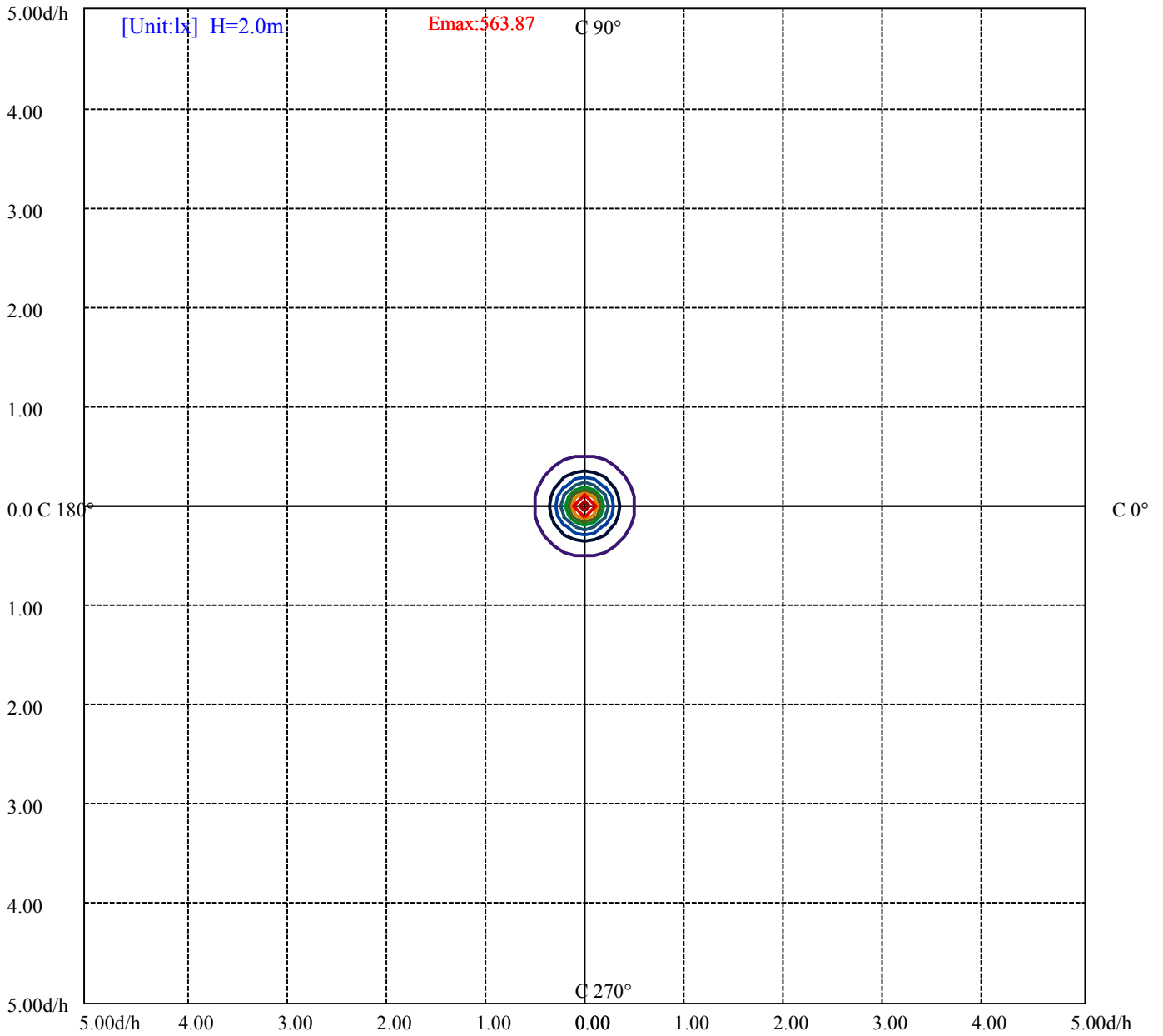
House

[Unit:cd]

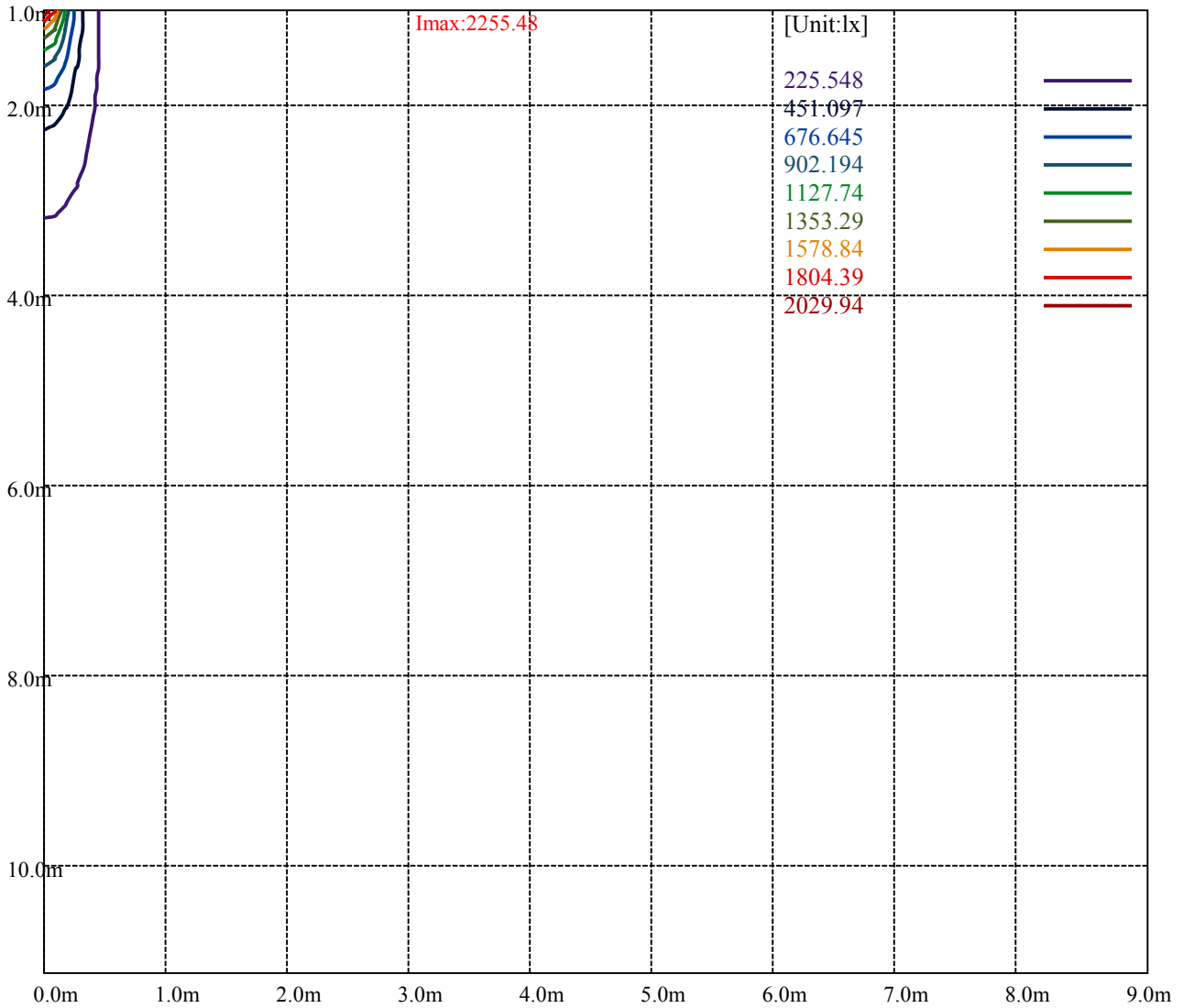
Road

Imax:2255.48

(10%Imax)	225.548	—
(20%Imax)	451.097	—
(30%Imax)	676.645	—
(40%Imax)	902.194	—
(50%Imax)	1127.74	—
(60%Imax)	1353.29	—
(70%Imax)	1578.84	—
(80%Imax)	1804.39	—
(90%Imax)	2029.94	—



- (10%Emax) 56.387
- (20%Emax) 112.774
- (30%Emax) 169.1613
- (40%Emax) 225.5482
- (50%Emax) 281.935
- (60%Emax) 338.3225
- (70%Emax) 394.71
- (80%Emax) 451.0975
- (90%Emax) 507.4825



Luminance Table

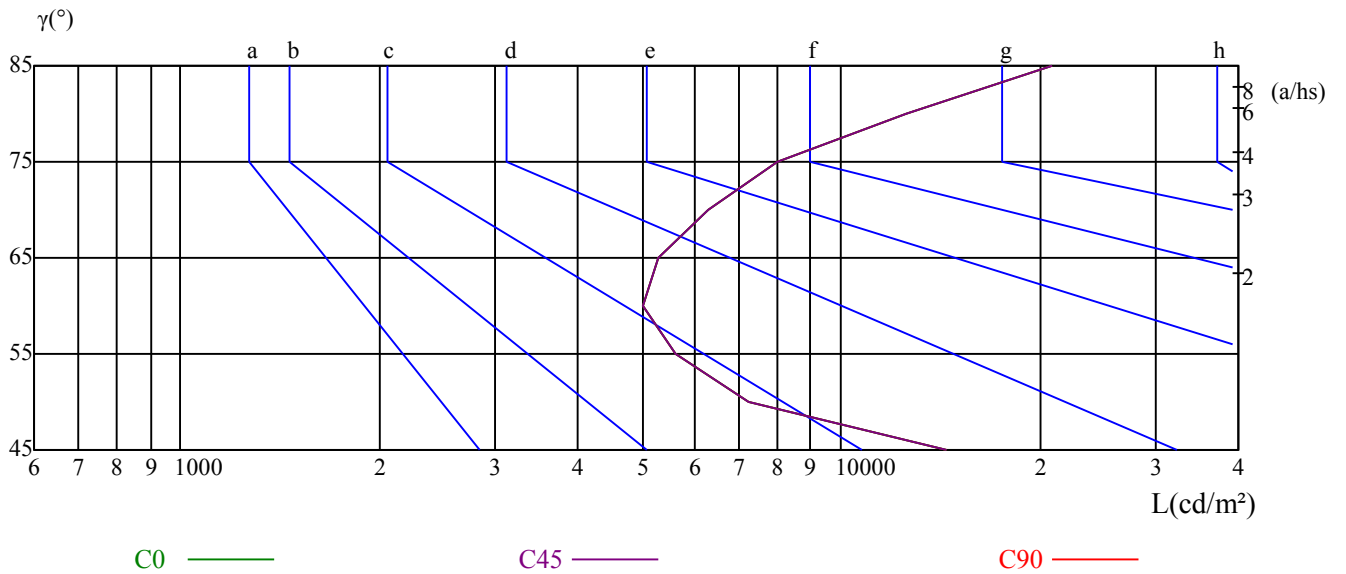
γ	45	50	55	60	65	70	75	80	85
C0	14433	7255	5635	5019	5302	6308	7998	12549	20835
C45	14433	7255	5635	5019	5302	6308	7998	12549	20835
C90	14433	7255	5635	5019	5302	6308	7998	12549	20835

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5302	5302	5302	7998	7998	7998	20835	20835	20835

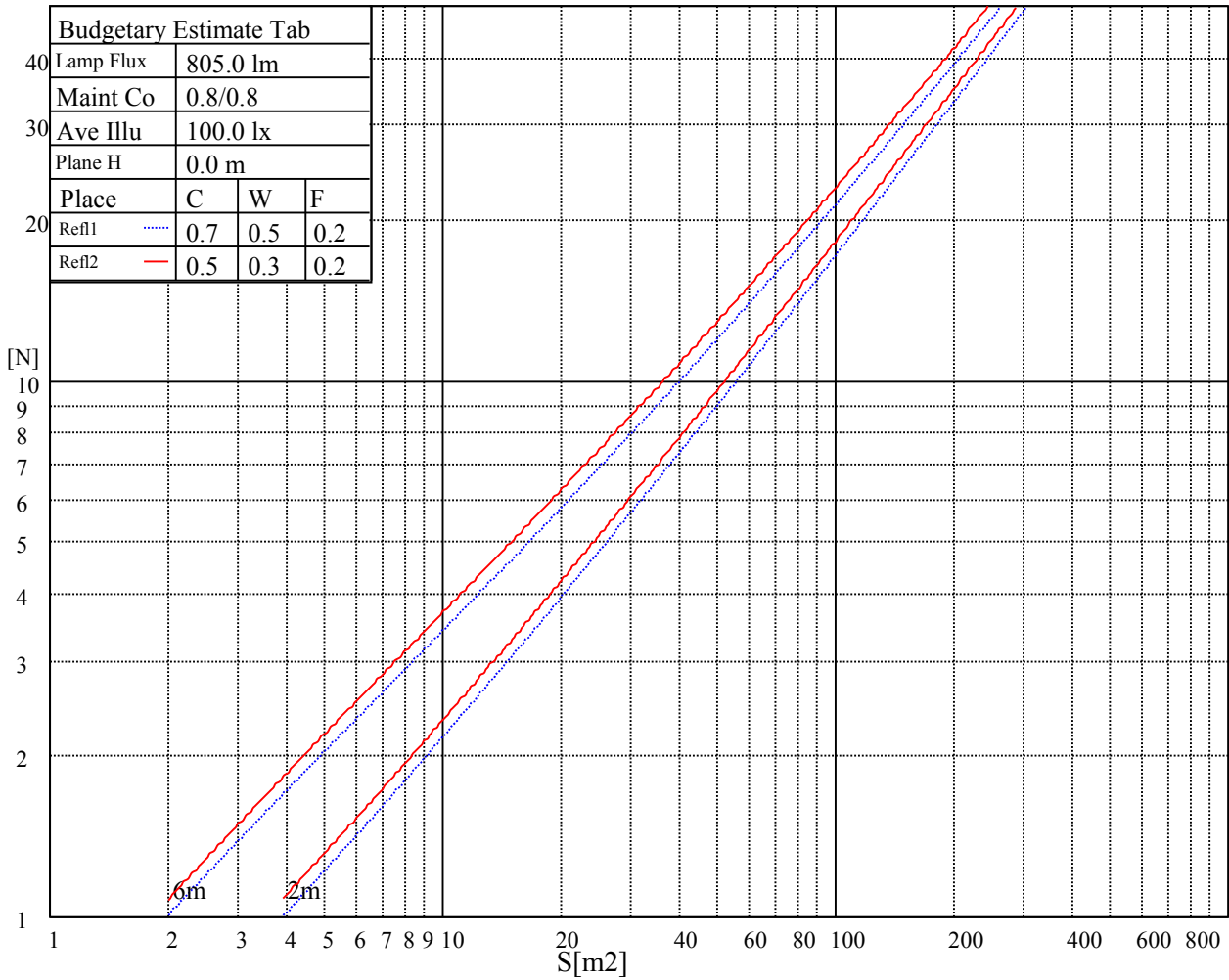
Glare Table

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

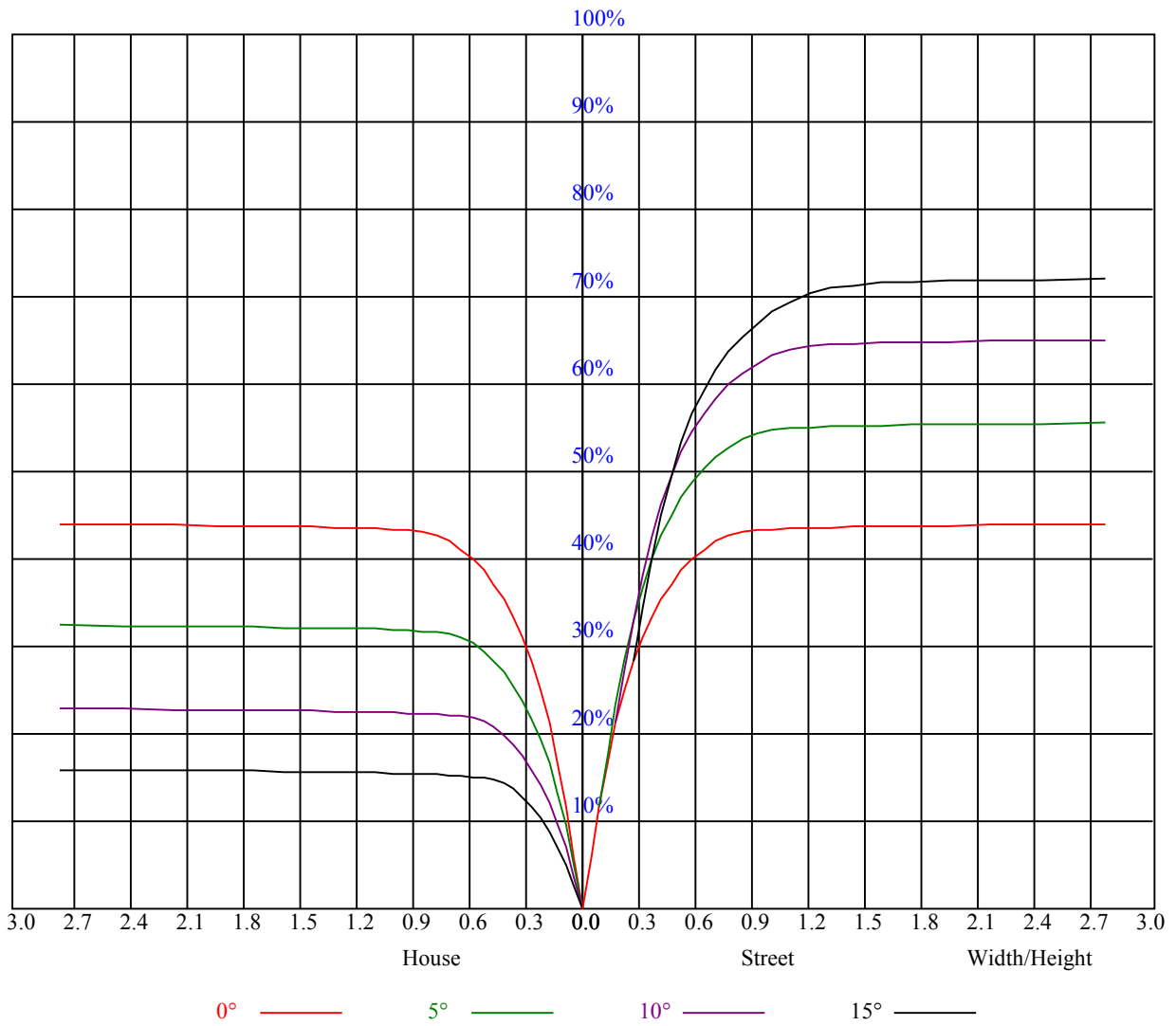
Luminance Limiting Curve



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	10.77	11.72	11.14	12.03	12.35	7.93	8.87	8.29	9.18	9.50
	3H	13.12	13.95	13.50	14.29	14.66	10.59	11.43	10.98	11.76	12.13
	4H	14.54	15.32	14.95	15.67	16.06	12.18	12.95	12.59	13.31	13.70
	6H	16.22	16.93	16.64	17.30	17.70	14.27	14.97	14.68	15.35	15.74
	8H	17.06	17.72	17.50	18.12	18.53	15.37	16.03	15.81	16.42	16.84
	12H	18.31	18.95	18.75	19.33	19.76	17.04	17.67	17.47	18.05	18.48
4H	2H	11.01	11.78	11.42	12.14	12.53	8.77	9.54	9.17	9.89	10.28
	3H	13.75	14.38	14.16	14.79	15.19	11.78	12.41	12.20	12.82	13.23
	4H	15.42	15.99	15.86	16.41	16.86	13.56	14.12	14.00	14.55	15.00
	6H	17.20	17.68	17.67	18.13	18.61	15.64	16.13	16.12	16.58	17.05
	8H	18.23	18.68	18.70	19.13	19.60	16.89	17.34	17.37	17.79	18.27
	12H	19.51	19.90	20.00	20.39	20.87	18.47	18.86	18.97	19.35	19.83
8H	4H	15.89	16.34	16.36	16.79	17.26	14.43	14.88	14.90	15.33	15.80
	6H	18.02	18.38	18.53	18.88	19.37	16.84	17.20	17.35	17.70	18.19
	8H	19.24	19.55	19.77	20.08	20.57	18.22	18.53	18.75	19.06	19.55
	12H	20.71	20.98	21.23	21.48	22.06	19.88	20.15	20.40	20.65	21.23
12H	4H	16.03	16.42	16.52	16.91	17.38	14.72	15.10	15.21	15.59	16.07
	6H	18.50	18.59	18.81	19.06	19.61	17.45	17.54	17.76	18.01	18.56
	8H	19.59	19.87	20.12	20.36	20.95	18.70	18.97	19.23	19.47	20.06
Variation with the observer position at spacings:											
S = 1.0H	4.7/-6.5					4.7/-6.5					
S = 1.5H	6.7/-4.9					6.7/-4.9					
S = 2.0H	8.1/-3.7					8.1/-3.7					
Standard tables:	BK3					BK3					
Uncorrected UGR	2.6					2.6					



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	1.03	1.03	1.03	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.89
1	0.99	0.97	0.95	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.83
2	0.93	0.89	0.87	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.79
3	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
4	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
5	0.78	0.74	0.71	0.78	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.67
6	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.64
7	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
8	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.58
9	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54



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	2260.13	2258.44	2228.06	2172.94	2107.13	2014.88	1901.25	1784.81	1661.06
45.0	2258.44	2233.69	2180.81	2116.69	2026.69	1910.81	1789.31	1640.81	1507.50
90.0	2244.94	2206.13	2152.69	2053.69	1954.13	1836.56	1692.00	1537.88	1403.44
135.0	2257.88	2238.19	2188.13	2121.75	2027.81	1914.75	1795.50	1649.25	1516.50
180.0	2260.13	2237.06	2188.69	2115.56	2019.38	1917.00	1797.75	1630.13	1501.31
225.0	2258.44	2260.13	2231.44	2163.94	2094.19	2009.25	1891.69	1758.94	1632.94
270.0	2244.94	2260.69	2247.75	2209.50	2143.13	2054.81	1960.88	1838.81	1716.19
315.0	2259.00	2252.25	2223.56	2169.00	2090.25	2005.88	1904.63	1762.31	1635.19
360.0	2260.13	2258.44	2228.06	2172.94	2107.13	2014.88	1901.25	1784.81	1661.06
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1503.00	1380.94	1261.13	1137.94	1028.25	939.94	851.06	770.06	705.38
45.0	1363.50	1225.13	1113.19	1011.94	900.56	820.69	749.25	669.94	610.31
90.0	1259.44	1110.77	1022.91	921.54	843.36	764.33	692.04	636.13	582.64
135.0	1374.19	1235.25	1123.88	1038.38	919.69	847.13	788.06	704.81	649.69
180.0	1370.81	1122.13	1108.97	1013.74	921.71	838.97	772.48	703.52	646.93
225.0	1485.56	1342.69	1188.56	1097.66	1000.58	905.34	822.66	754.82	693.28
270.0	1571.63	1429.31	1305.56	1188.56	1057.50	964.69	882.00	788.63	721.69
315.0	1508.06	1353.38	1203.75	1121.40	1010.59	917.94	840.43	762.24	700.03
360.0	1503.00	1380.94	1261.13	1137.94	1028.25	939.94	851.06	770.06	705.38
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	639.56	589.50	537.75	492.75	459.56	430.88	398.81	375.19	355.50
45.0	557.44	502.31	455.63	420.75	385.88	362.25	337.50	316.13	299.81
90.0	525.60	477.73	438.86	402.13	372.15	349.09	330.08	308.98	294.47
135.0	604.13	543.94	495.00	460.69	417.38	390.38	365.06	339.19	322.31
180.0	585.39	530.78	486.84	444.49	408.71	381.77	358.71	334.52	317.81
225.0	624.21	573.47	527.01	475.99	440.61	409.33	377.27	356.46	338.63
270.0	662.06	600.19	543.38	497.25	453.38	419.63	387.56	361.13	340.31
315.0	636.47	579.38	534.32	489.49	451.18	422.55	398.08	370.74	351.62
360.0	639.56	589.50	537.75	492.75	459.56	430.88	398.81	375.19	355.50
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	332.44	313.88	298.13	285.19	278.89	269.33	264.38	250.82	229.73
45.0	284.06	275.12	259.03	252.62	247.67	241.20	229.39	213.24	190.01
90.0	281.31	269.83	262.91	257.74	252.68	240.30	225.28	204.36	183.32
135.0	307.13	290.25	284.06	270.90	263.42	257.23	244.24	219.94	198.56
180.0	302.51	286.26	274.89	267.13	259.99	253.63	242.16	221.68	202.11
225.0	318.71	303.58	289.35	277.09	270.68	264.04	258.47	249.41	232.26
270.0	320.63	301.50	285.19	273.49	255.60	250.71	245.76	240.30	227.76
315.0	334.69	313.37	298.46	288.56	280.46	274.78	269.27	257.12	238.95
360.0	332.44	313.88	298.13	285.19	278.89	269.33	264.38	250.82	229.73
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	212.57	181.91	155.19	130.22	100.80	75.54	55.63	33.69	24.69
45.0	169.03	145.52	116.66	92.70	69.08	45.00	26.49	17.33	15.36
90.0	157.16	129.94	105.13	78.47	53.72	34.65	23.12	17.49	16.88
135.0	173.31	146.87	115.93	92.59	63.84	42.81	23.34	13.28	11.48
180.0	174.49	147.43	120.26	92.87	63.79	43.20	25.31	13.61	11.59
225.0	203.34	183.09	157.44	121.84	99.90	75.99	54.96	33.86	25.09
270.0	211.95	190.91	169.37	146.59	120.83	98.33	73.01	51.47	38.87
315.0	216.73	190.01	167.68	136.74	110.08	84.77	63.39	41.12	31.95
360.0	212.57	181.91	155.19	130.22	100.80	75.54	55.63	33.69	24.69

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	22.78	22.16	21.32	19.35	15.41	5.96	5.29	5.01	4.89
45.0	14.74	14.01	13.22	12.32	10.13	9.62	9.34	8.94	8.44
90.0	16.14	14.96	13.67	12.88	11.31	10.74	10.52	10.29	9.96
135.0	10.58	9.56	8.44	7.20	6.13	4.78	4.44	4.33	4.28
180.0	10.74	9.90	8.55	7.43	6.53	4.56	4.11	3.99	3.94
225.0	21.49	20.98	20.25	19.35	17.21	11.48	7.82	7.43	7.26
270.0	31.73	31.33	30.04	28.97	25.14	19.01	11.64	11.03	10.52
315.0	29.87	28.63	26.55	23.29	16.54	6.08	5.57	5.34	5.12
360.0	22.78	22.16	21.32	19.35	15.41	5.96	5.29	5.01	4.89
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.73	4.61	4.50	4.39	4.28	4.22	4.11	3.99	3.94
45.0	7.88	7.43	6.69	6.19	5.79	5.34	5.01	4.67	4.56
90.0	9.56	9.11	8.66	8.21	7.71	7.31	7.03	6.75	6.64
135.0	4.16	4.05	3.99	3.99	3.88	3.83	3.77	3.71	3.71
180.0	3.88	3.77	3.71	3.66	3.66	3.54	3.54	3.49	3.49
225.0	7.09	6.86	6.58	6.30	5.96	5.63	5.34	5.06	4.84
270.0	9.96	9.45	8.66	8.04	7.37	6.69	6.08	5.68	5.29
315.0	4.95	4.78	4.61	4.44	4.28	4.11	3.99	3.83	3.71
360.0	4.73	4.61	4.50	4.39	4.28	4.22	4.11	3.99	3.94
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.88	3.83	3.83	3.77	3.77	3.77	3.71	3.71	3.71
45.0	4.44	4.39	4.39	4.33	4.39	4.33	4.33	4.33	4.28
90.0	6.58	6.58	6.58	6.53	6.53	6.41	6.36	6.13	6.02
135.0	3.66	3.66	3.60	3.60	3.60	3.54	3.60	3.60	3.54
180.0	3.43	3.43	3.38	3.38	3.38	3.32	3.38	3.32	3.32
225.0	4.78	4.67	4.67	4.67	4.61	4.61	4.56	4.50	4.44
270.0	4.95	4.84	4.73	4.67	4.56	4.56	4.50	4.44	4.33
315.0	3.66	3.60	3.54	3.49	3.43	3.43	3.43	3.38	3.38
360.0	3.88	3.83	3.83	3.77	3.77	3.77	3.71	3.71	3.71
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.66	3.66	3.66	3.66	3.60	3.60	3.66	3.99	4.39
45.0	4.28	4.22	4.22	4.16	4.16	4.56	5.01	5.46	5.23
90.0	5.91	5.85	5.74	5.79	5.85	5.91	6.13	6.02	5.46
135.0	3.54	3.54	3.54	3.54	3.54	3.54	3.49	3.54	3.54
180.0	3.38	3.32	3.32	3.32	3.32	3.26	3.32	3.26	3.26
225.0	4.33	4.28	4.22	4.22	4.28	4.39	4.56	4.78	4.84
270.0	4.28	4.22	4.16	4.11	4.11	3.99	3.94	3.83	3.83
315.0	3.38	3.32	3.32	3.26	3.26	3.26	3.21	3.21	3.21
360.0	3.66	3.66	3.66	3.66	3.60	3.60	3.66	3.99	4.39
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.33	4.05	3.60	3.60	3.60	3.66	3.77	3.77	3.77
45.0	4.95	4.11	3.88	3.94	3.94	4.05	4.16	4.22	2.87
90.0	4.73	4.05	3.88	3.94	4.11	4.33	4.56	2.87	2.87
135.0	3.54	3.54	3.54	3.60	3.71	3.83	3.88	2.93	2.87
180.0	3.32	3.26	3.32	3.32	3.32	3.38	3.09	2.93	2.87
225.0	4.56	3.88	3.49	3.21	3.09	3.09	3.15	3.09	2.87
270.0	3.83	3.54	3.43	3.26	3.09	3.09	3.09	3.09	3.09
315.0	3.21	3.21	3.21	3.21	3.26	3.26	3.26	3.21	3.21
360.0	4.33	4.05	3.60	3.60	3.60	3.66	3.77	3.77	3.77

Intensity data(cd)

C/ γ (°)	90.0
0.0	2.93
45.0	2.81
90.0	2.81
135.0	2.87
180.0	2.87
225.0	2.87
270.0	2.87
315.0	2.93
360.0	2.93