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Nata

LumCAT: 3-1548-A3
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No: GC2018082713
LampCAT: CITIZEN CLU038
Lamp flux(lm): 2534.0
Number of Lamps: 1
Length(mm): 79
Phm Type: C

Voltage(V): 35.4000
Current(A): 0.5000
Power (W): 17.7000
PF: 0.0000
Ballast type: DC
Width(mm): 79
Height(mm): 0

Photometric Results

Lumens(lm): 2313.98
Efficiency(%): 91.32%
Lumens(lm)/Power(W): 130.97
Central intensity(cd): 17662.090
Maximum intensity(cd): 17662.090
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=14.6
 [C90/270]Total=14.6
Field angle(10%Imax): [C0/180]Total=30.7
 [C90/270]Total=30.7
Maximum s/h(1/2): C0_180=0.25 C90_270=0.25
Maximum s/h(1/4): C0_180=0.26 C90_270=0.26
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.48%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.463%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	17662.094	4.226	4.226	.167%	.183%
1.0	17432.232	33.363	37.588	1.317%	1.624%
2.0	16775.686	64.202	101.791	2.534%	4.399%
3.0	15649.093	89.813	191.604	3.544%	8.280%
4.0	14293.330	109.338	300.942	4.315%	13.005%
5.0	12468.554	119.169	420.111	4.703%	18.155%
6.0	10911.215	125.072	545.183	4.936%	23.560%
7.0	9262.551	123.788	668.97	4.885%	28.910%
8.0	7776.166	118.679	787.649	4.683%	34.039%
9.0	6260.463	107.397	895.045	4.238%	38.680%
10.0	4906.076	93.424	988.469	3.687%	42.717%
11.0	3927.104	82.172	1070.641	3.243%	46.268%
12.0	3152.117	71.868	1142.508	2.836%	49.374%
13.0	2579.943	63.643	1206.151	2.512%	52.125%
14.0	2214.988	58.762	1264.913	2.319%	54.664%
15.0	1858.635	52.752	1317.666	2.082%	56.944%
16.0	1595.947	48.240	1365.906	1.904%	59.028%
17.0	1430.916	45.878	1411.783	1.810%	61.011%
18.0	1304.355	44.201	1455.984	1.744%	62.921%
19.0	1193.127	42.597	1498.581	1.681%	64.762%
20.0	1123.928	42.154	1540.736	1.664%	66.584%
21.0	1076.986	42.324	1583.06	1.670%	68.413%
22.0	1030.573	42.336	1625.396	1.671%	70.243%
23.0	996.631	42.704	1668.099	1.685%	72.088%
24.0	965.483	43.064	1711.163	1.699%	73.949%
25.0	934.486	43.308	1754.471	1.709%	75.821%
26.0	911.934	43.839	1798.31	1.730%	77.715%
27.0	889.120	44.265	1842.575	1.747%	79.628%
28.0	864.537	44.509	1887.083	1.756%	81.551%
29.0	844.593	44.902	1931.986	1.772%	83.492%
30.0	826.631	45.325	1977.31	1.789%	85.451%
31.0	798.689	45.110	2022.42	1.780%	87.400%
32.0	754.995	43.874	2066.294	1.731%	89.296%
33.0	694.103	41.456	2107.75	1.636%	91.088%
34.0	606.852	37.213	2144.963	1.469%	92.696%
35.0	516.457	32.485	2177.447	1.282%	94.100%
36.0	418.091	26.949	2204.396	1.063%	95.264%
37.0	316.739	20.903	2225.3	.825%	96.168%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	229.062	15.465	2240.764	.610%	96.836%
39.0	158.445	10.935	2251.699	.432%	97.309%
40.0	80.327	5.662	2257.361	.223%	97.553%
41.0	46.901	3.374	2260.735	.133%	97.699%
42.0	31.733	2.328	2263.064	.092%	97.800%
43.0	24.163	1.807	2264.871	.071%	97.878%
44.0	19.690	1.500	2266.371	.059%	97.943%
45.0	16.249	1.260	2267.631	.050%	97.997%
46.0	13.530	1.067	2268.698	.042%	98.043%
47.0	12.264	0.984	2269.682	.039%	98.086%
48.0	12.016	0.979	2270.661	.039%	98.128%
49.0	11.782	0.975	2271.636	.038%	98.170%
50.0	11.617	0.976	2272.612	.039%	98.212%
51.0	11.459	0.977	2273.589	.039%	98.255%
52.0	11.321	0.978	2274.567	.039%	98.297%
53.0	11.183	0.979	2275.546	.039%	98.339%
54.0	11.053	0.981	2276.527	.039%	98.382%
55.0	10.942	0.983	2277.51	.039%	98.424%
56.0	10.853	0.987	2278.496	.039%	98.467%
57.0	10.757	0.989	2279.486	.039%	98.509%
58.0	10.688	0.994	2280.48	.039%	98.552%
59.0	10.626	0.999	2281.478	.039%	98.596%
60.0	10.564	1.003	2282.482	.040%	98.639%
61.0	10.488	1.006	2283.488	.040%	98.682%
62.0	10.433	1.010	2284.498	.040%	98.726%
63.0	10.419	1.018	2285.516	.040%	98.770%
64.0	10.378	1.023	2286.539	.040%	98.814%
65.0	10.351	1.029	2287.568	.041%	98.859%
66.0	10.316	1.033	2288.601	.041%	98.903%
67.0	10.289	1.039	2289.64	.041%	98.948%
68.0	10.261	1.043	2290.683	.041%	98.993%
69.0	10.240	1.048	2291.731	.041%	99.039%
70.0	10.227	1.054	2292.785	.042%	99.084%
71.0	10.206	1.058	2293.843	.042%	99.130%
72.0	10.206	1.064	2294.908	.042%	99.176%
73.0	10.185	1.068	2295.976	.042%	99.222%
74.0	10.151	1.070	2297.046	.042%	99.268%
75.0	10.137	1.074	2298.12	.042%	99.315%

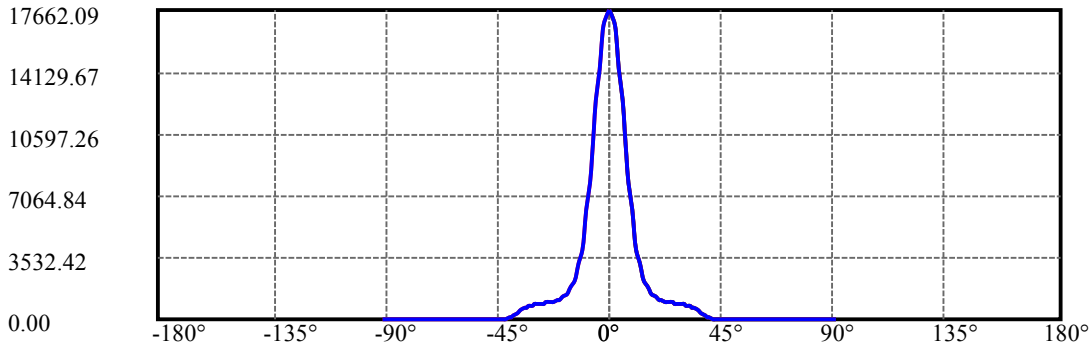
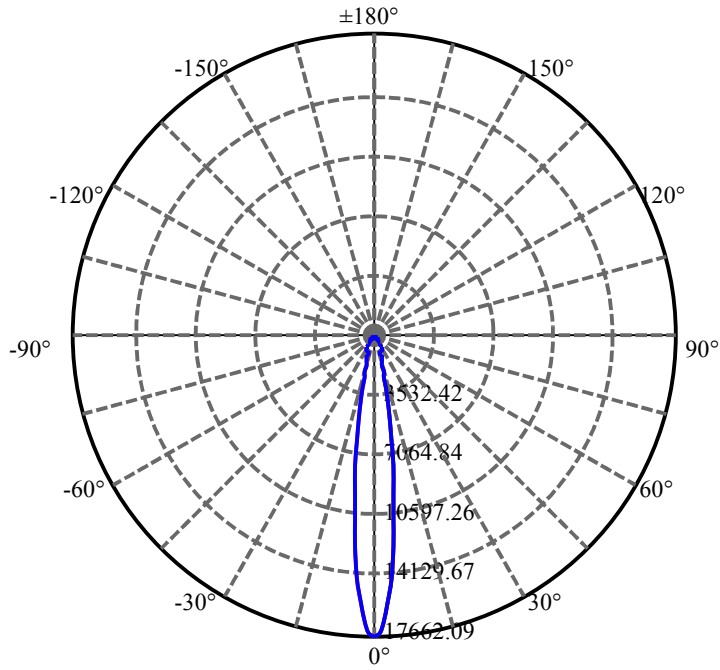
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.130	1.078	2299.198	.043%	99.361%
77.0	10.110	1.080	2300.278	.043%	99.408%
78.0	10.110	1.084	2301.362	.043%	99.455%
79.0	10.089	1.086	2302.448	.043%	99.502%
80.0	10.068	1.087	2303.536	.043%	99.549%
81.0	10.062	1.090	2304.625	.043%	99.596%
82.0	10.055	1.092	2305.717	.043%	99.643%
83.0	10.075	1.097	2306.814	.043%	99.690%
84.0	10.123	1.104	2307.918	.044%	99.738%
85.0	10.206	1.115	2309.033	.044%	99.786%
86.0	10.275	1.124	2310.157	.044%	99.835%
87.0	10.007	1.096	2311.253	.043%	99.882%
88.0	9.945	1.090	2312.343	.043%	99.929%
89.0	9.938	1.090	2313.432	.043%	99.976%
90.0	9.945	0.545	2313.978	.022%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1977.31	78.03%	85.45%
0-40	2257.36	89.08%	97.55%
0-60	2282.48	90.07%	98.64%
0-90	2313.43	91.30%	99.98%
0-120	2313.43	91.30%	99.98%
0-180	2313.98	91.32%	100.00%
60-90	31.95	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%
0-27.19	1851.18	73.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	988.47
10-20	552.27
20-30	436.57
30-40	280.05
40-50	15.25
50-60	9.87
60-70	10.30
70-80	10.75
80-90	9.90
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: —————

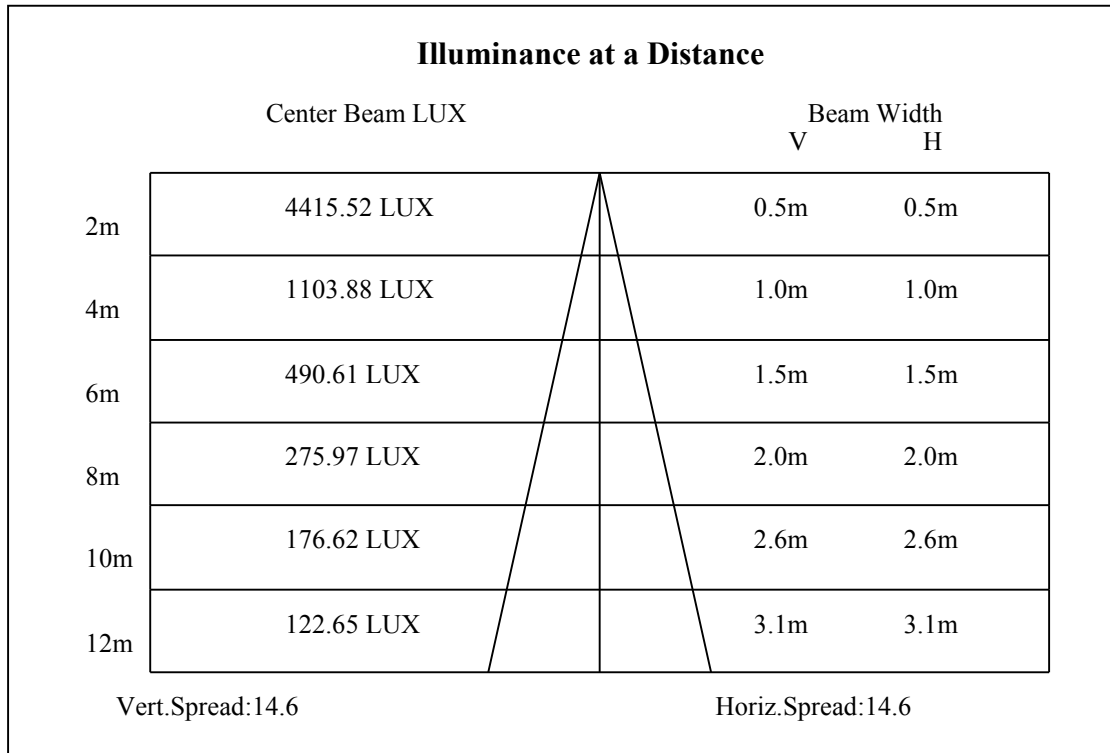
C90/C270: —————

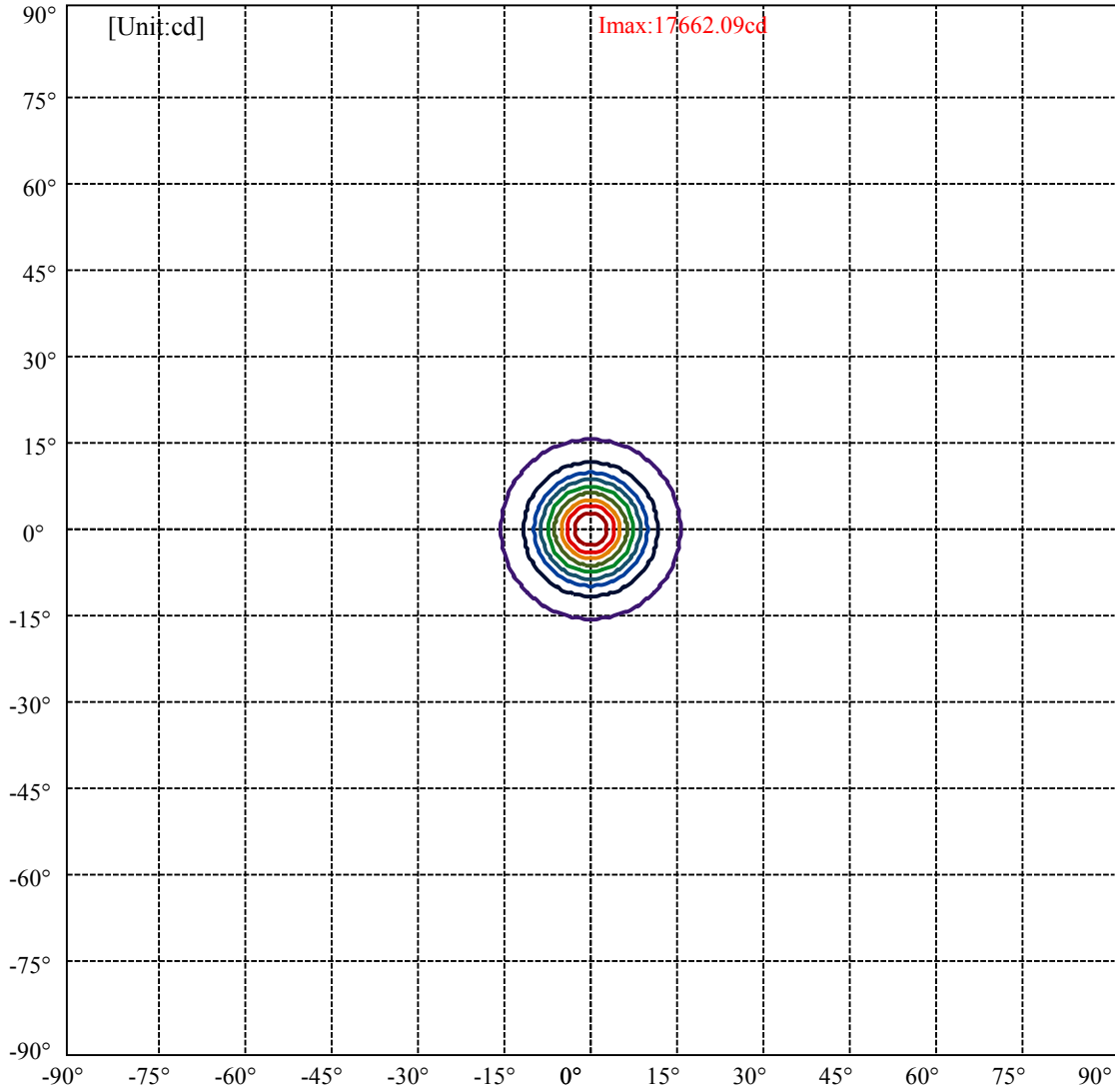
Field angle(10%Imax):C0/180Left:15.4 Right:15.4

:C90/270Left:15.4 Right:15.4

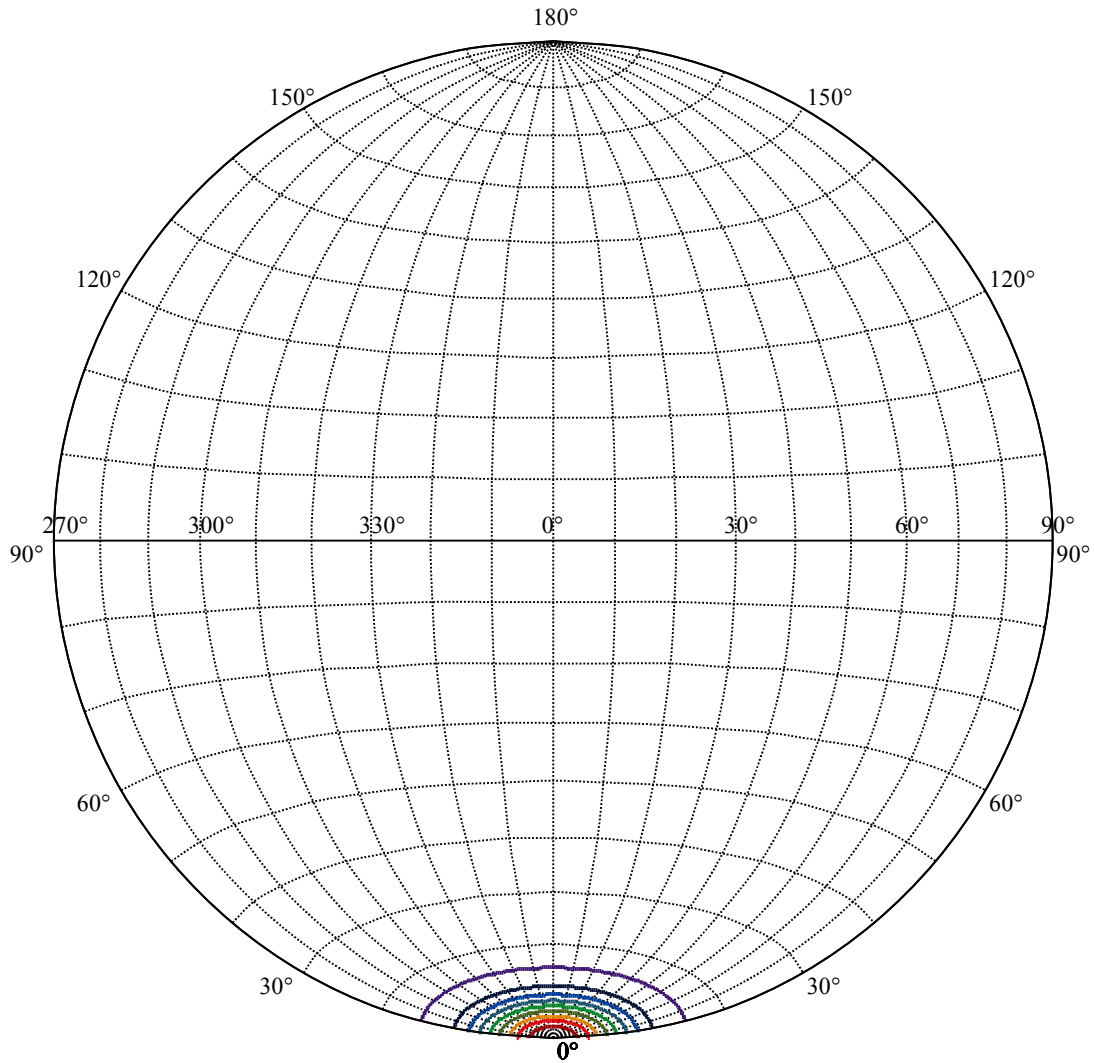
Beam Angle(50%Imax):C0/180Left:7.3 Right:7.3

:C90/270Left:7.3 Right:7.3





(10%Imax) 1766.21	—
(20%Imax) 3532.42	—
(30%Imax) 5298.63	—
(40%Imax) 7064.84	—
(50%Imax) 8831.05	—
(60%Imax) 10597.3	—
(70%Imax) 12363.5	—
(80%Imax) 14129.7	—
(90%Imax) 15895.9	—



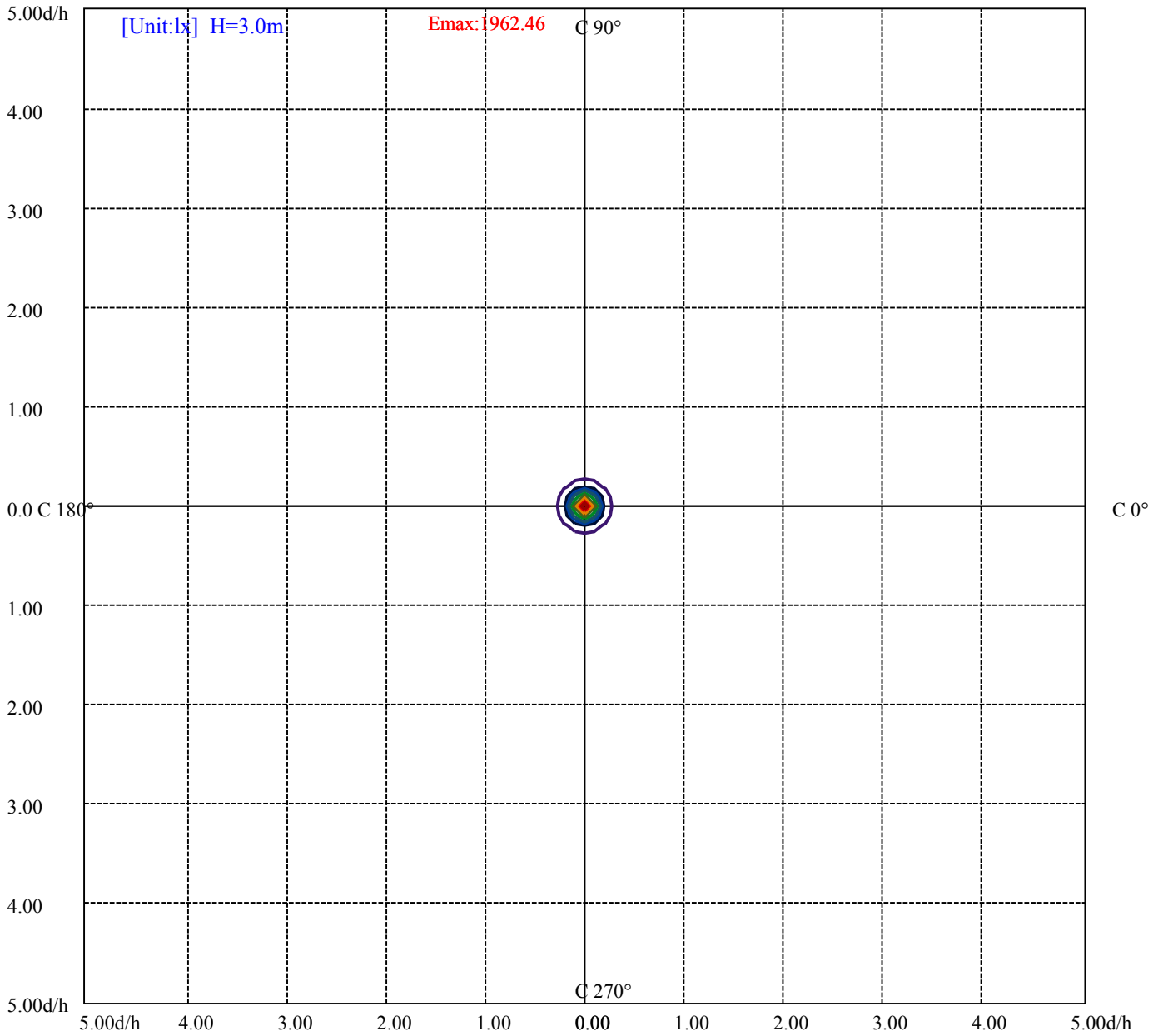
House

[Unit:cd]

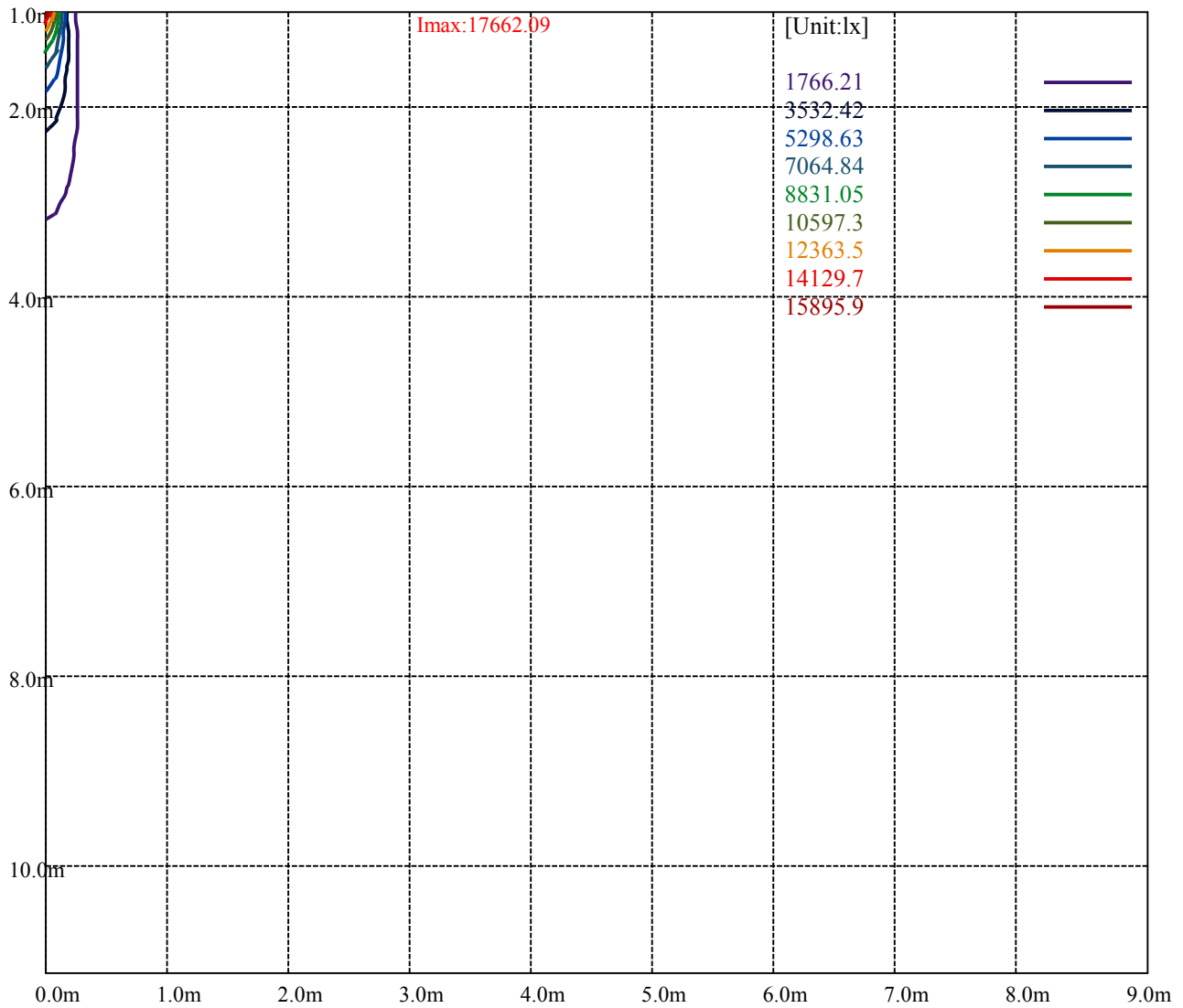
Road

Imax:17662.09

(10%Imax) 1766.21	—
(20%Imax) 3532.42	—
(30%Imax) 5298.63	—
(40%Imax) 7064.84	—
(50%Imax) 8831.05	—
(60%Imax) 10597.3	—
(70%Imax) 12363.5	—
(80%Imax) 14129.7	—
(90%Imax) 15895.9	—



- (10%Emax) 196.2455
- (20%Emax) 392.49
- (30%Emax) 588.7356
- (40%Emax) 784.98
- (50%Emax) 981.2256
- (60%Emax) 1177.467
- (70%Emax) 1373.711
- (80%Emax) 1569.956
- (90%Emax) 1766.211



Luminance Table

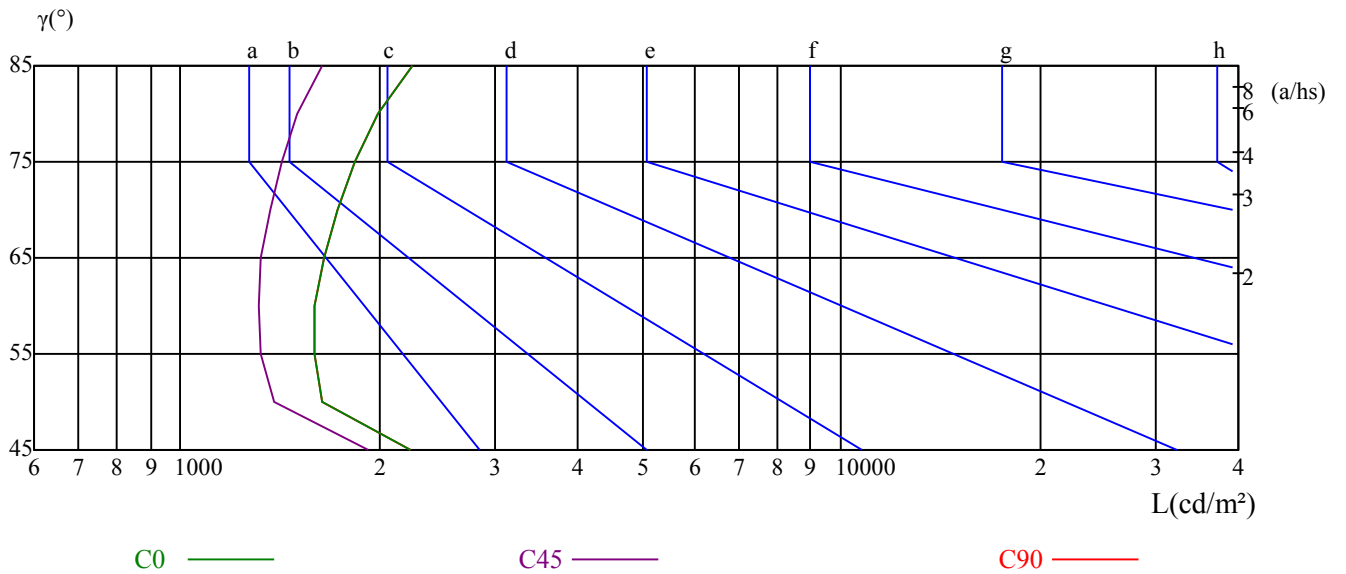
γ	45	50	55	60	65	70	75	80	85
C0	2237	1637	1590	1598	1646	1727	1841	1993	2239
C45	1925	1387	1327	1311	1327	1366	1424	1504	1641
C90	2237	1637	1590	1598	1646	1727	1841	1993	2239

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3924	3924	3924	6276	6276	6276	18763	18763	18763

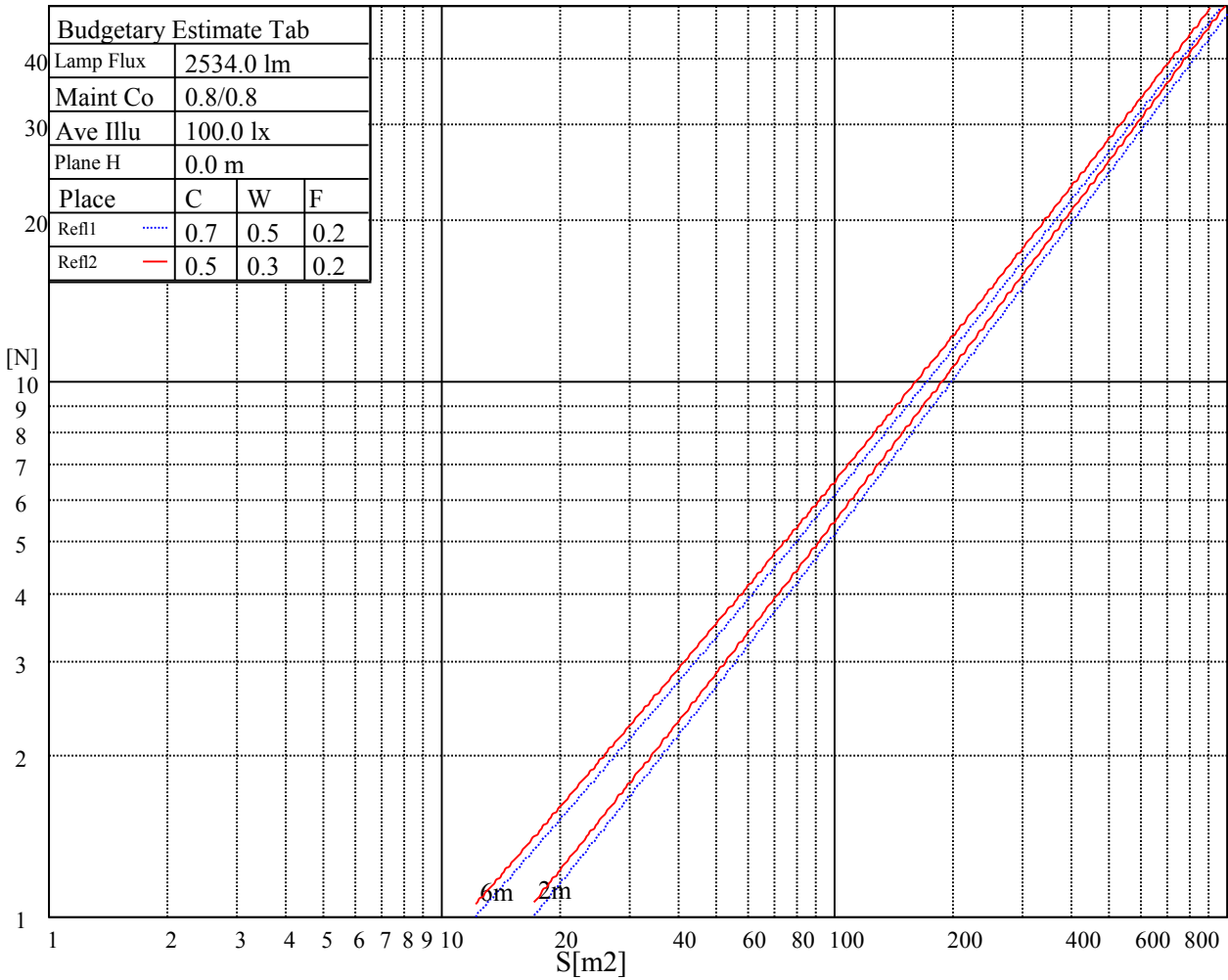
Glare Table

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

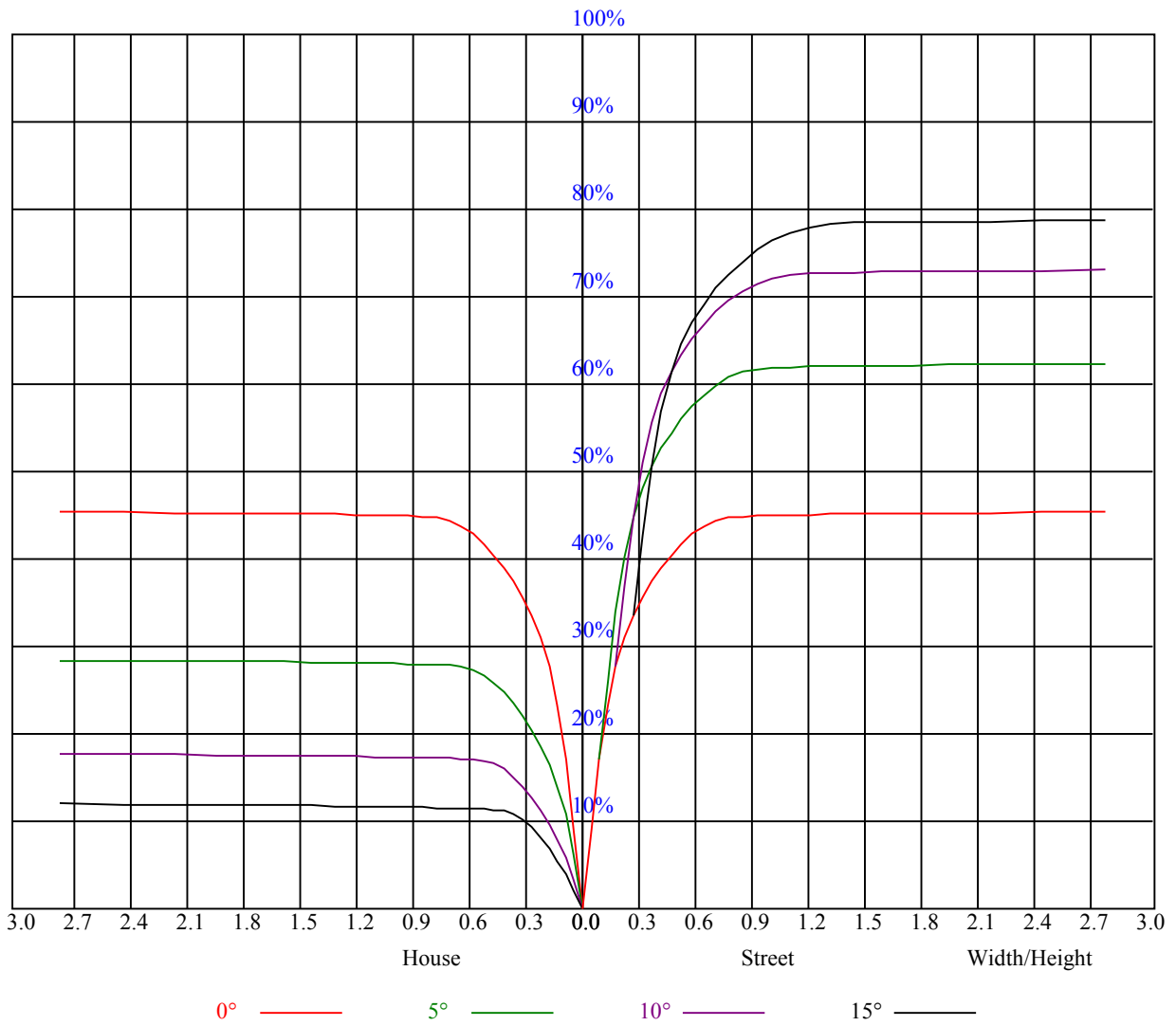
Luminance Limiting Curve



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	-0.22	0.69	0.14	1.00	1.32	-0.19	0.72	0.18	1.03	1.35
	3H	2.12	2.92	2.50	3.26	3.63	2.13	2.93	2.51	3.26	3.63
	4H	3.40	4.14	3.80	4.49	4.88	3.40	4.14	3.80	4.49	4.89
	6H	4.73	5.41	5.15	5.79	6.18	4.73	5.41	5.15	5.79	6.18
	8H	5.41	6.05	5.85	6.44	6.85	5.40	6.04	5.84	6.43	6.84
	12H	6.47	7.08	6.90	7.46	7.89	6.43	7.04	6.87	7.42	7.86
4H	2H	0.29	1.03	0.69	1.38	1.77	0.31	1.05	0.72	1.41	1.80
	3H	2.92	3.53	3.33	3.94	4.34	2.92	3.53	3.34	3.94	4.35
	4H	4.37	4.91	4.81	5.34	5.79	4.36	4.91	4.80	5.33	5.78
	6H	5.80	6.27	6.27	6.72	7.19	5.80	6.26	6.27	6.71	7.19
	8H	6.59	7.03	7.07	7.48	7.95	6.58	7.01	7.06	7.46	7.94
	12H	7.64	8.02	8.14	8.51	8.98	7.60	7.98	8.10	8.47	8.94
8H	4H	4.81	5.25	5.29	5.70	6.17	4.81	5.24	5.29	5.69	6.17
	6H	6.48	6.82	7.00	7.33	7.82	6.48	6.82	6.99	7.33	7.81
	8H	7.43	7.73	7.97	8.26	8.75	7.41	7.72	7.95	8.24	8.74
	12H	8.61	8.87	9.14	9.37	9.95	8.57	8.83	9.09	9.33	9.91
12H	4H	4.90	5.28	5.40	5.77	6.25	4.90	5.27	5.39	5.76	6.24
	6H	6.86	6.96	7.20	7.43	7.98	6.85	6.96	7.19	7.43	7.98
	8H	7.70	7.96	8.23	8.46	9.04	7.69	7.95	8.21	8.45	9.03
Variation with the observer position at spacings:											
S = 1.0H		5.8/-8.3					5.8/-8.3				
S = 1.5H		8.3/-6.6					8.3/-6.6				
S = 2.0H		9.9/-5.3					9.9/-5.3				
Standard tables:		BK1					BK1				
Uncorrected UGR		-3.0					-3.0				



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	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.01	0.99	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.90	0.89	0.87
2	0.97	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.88	0.86	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.86	0.89	0.87	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.81	0.84	0.82	0.80	0.83	0.81	0.79	0.78
5	0.85	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.75
6	0.82	0.78	0.75	0.82	0.78	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	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
8	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
10	0.72	0.68	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64



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	17623.55	17750.18	17386.81	16627.03	15349.72	13791.63	12228.03	10427.68	8880.60
45.0	17590.52	17794.23	17574.00	16841.75	15834.22	14386.24	12668.48	11055.33	9469.70
90.0	17728.16	17673.10	17205.13	16230.63	14892.76	13483.31	10865.38	9853.99	8292.04
135.0	17706.14	17640.07	17061.98	16026.92	14832.19	13417.24	11451.73	9838.58	8297.00
180.0	17623.55	17078.50	16175.57	14667.02	13235.56	10836.20	10014.76	8035.48	6601.26
225.0	17590.52	16858.27	15823.21	14369.72	12701.51	10884.10	9490.07	7615.40	6264.87
270.0	17728.16	17375.80	16456.36	15146.02	13742.08	11980.27	10190.94	8638.35	7201.38
315.0	17706.14	17287.71	16522.43	15283.66	13758.59	10969.44	10380.33	8635.60	7202.48
360.0	17623.55	17750.18	17386.81	16627.03	15349.72	13791.63	12228.03	10427.68	8880.60

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7272.95	5813.96	4679.79	3754.85	2917.99	2785.85	2097.65	1754.10	1555.89
45.0	7592.28	6199.35	4982.60	3853.95	3028.10	2813.38	2191.24	1805.85	1597.74
90.0	6829.20	5211.64	4133.08	3302.83	2644.36	2188.49	1888.99	1632.97	1461.75
135.0	6535.19	5263.39	4178.78	3242.82	2785.85	2202.26	1903.30	1621.96	1452.39
180.0	5316.80	3999.30	3226.86	2676.29	2227.58	1898.34	1678.12	1483.22	1345.58
225.0	5050.32	3814.31	3077.10	2561.22	2137.84	1828.42	1621.41	1434.22	1305.94
270.0	5593.73	4481.59	3573.16	2917.99	2515.53	2000.20	1740.33	1504.69	1364.85
315.0	5893.24	4465.07	3565.45	2906.98	2382.29	2002.95	1748.04	1530.57	1363.20
360.0	7272.95	5813.96	4679.79	3754.85	2917.99	2785.85	2097.65	1754.10	1555.89

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1411.10	1296.58	1207.39	1145.17	1087.91	1046.07	1006.43	975.05	950.82
45.0	1450.19	1299.88	1204.08	1146.27	1082.41	1039.46	1004.78	966.79	941.46
90.0	1312.54	1205.74	1093.86	1067.93	1017.88	987.60	959.80	929.35	906.17
135.0	1315.85	1207.39	1129.21	1079.66	1031.21	997.07	963.49	932.66	910.08
180.0	1222.80	1095.46	1076.63	1029.55	992.72	963.32	933.21	903.70	883.55
225.0	1202.98	1095.68	1079.33	1034.56	997.73	969.98	944.33	912.78	890.26
270.0	1260.79	1174.35	1105.53	1058.18	1017.44	985.51	954.68	928.80	907.88
315.0	1258.59	1169.95	1095.40	1054.55	1017.28	984.02	957.16	926.76	905.24
360.0	1411.10	1296.58	1207.39	1145.17	1087.91	1046.07	1006.43	975.05	950.82

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	919.44	892.46	870.44	853.37	829.15	808.78	764.73	680.50	596.26
45.0	915.04	886.41	866.04	847.87	822.54	804.92	768.04	689.86	610.02
90.0	883.99	864.88	839.56	820.84	801.51	769.63	713.37	631.28	544.12
135.0	884.76	864.39	844.01	824.74	802.17	769.14	708.03	627.09	529.09
180.0	868.13	841.32	821.83	804.37	765.61	693.93	619.05	525.35	437.53
225.0	868.07	842.86	826.29	808.12	768.97	687.87	609.42	521.22	418.81
270.0	886.96	863.28	845.67	829.15	797.77	751.52	686.55	586.35	493.86
315.0	886.57	860.70	842.91	824.58	801.79	754.16	683.64	593.18	501.95
360.0	919.44	892.46	870.44	853.37	829.15	808.78	764.73	680.50	596.26

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	512.02	407.42	305.01	282.99	137.81	70.47	39.92	32.15	24.94
45.0	515.33	421.18	315.47	283.54	139.68	77.74	39.97	30.28	22.96
90.0	439.35	332.65	243.24	153.39	84.62	46.08	31.22	23.18	17.40
135.0	436.05	329.24	282.44	158.18	77.35	41.62	28.19	21.47	16.63
180.0	336.78	240.10	161.21	87.04	41.84	29.35	23.45	17.18	15.64
225.0	314.54	226.89	139.29	70.36	40.63	31.44	25.00	19.88	16.96
270.0	396.41	286.84	183.39	112.81	58.47	38.15	32.04	24.11	20.59
315.0	394.26	289.60	202.44	119.25	62.21	40.36	34.08	25.05	22.41
360.0	512.02	407.42	305.01	282.99	137.81	70.47	39.92	32.15	24.94

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	20.37	17.12	12.61	12.22	12.00	11.78	11.62	11.51	11.29
45.0	17.89	15.20	12.66	12.28	12.00	11.84	11.67	11.51	11.34
90.0	15.14	13.71	12.28	12.06	11.89	11.67	11.51	11.40	11.29
135.0	14.70	12.83	12.33	12.17	11.89	11.78	11.62	11.45	11.29
180.0	13.76	12.50	12.28	12.11	11.78	11.62	11.45	11.29	11.18
225.0	13.21	12.33	11.95	11.73	11.56	11.40	11.23	11.12	11.01
270.0	16.46	12.17	11.95	11.73	11.56	11.40	11.29	11.12	11.01
315.0	18.44	12.39	12.06	11.84	11.56	11.45	11.29	11.18	11.07
360.0	20.37	17.12	12.61	12.22	12.00	11.78	11.62	11.51	11.29
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.18	11.07	10.96	10.85	10.79	10.68	10.57	10.57	10.46
45.0	11.23	11.12	11.01	10.90	10.79	10.74	10.68	10.57	10.52
90.0	11.12	11.01	10.90	10.79	10.74	10.68	10.63	10.52	10.46
135.0	11.18	11.07	10.96	10.85	10.79	10.74	10.63	10.57	10.52
180.0	11.01	10.90	10.85	10.74	10.68	10.63	10.57	10.46	10.41
225.0	10.90	10.79	10.68	10.63	10.57	10.52	10.46	10.41	10.35
270.0	10.90	10.79	10.74	10.68	10.57	10.52	10.52	10.41	10.41
315.0	10.90	10.79	10.74	10.63	10.57	10.52	10.46	10.41	10.35
360.0	11.18	11.07	10.96	10.85	10.79	10.68	10.57	10.57	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	10.41	10.35	10.30	10.30	10.30	10.24	10.24	10.19
45.0	10.52	10.46	10.41	10.35	10.35	10.30	10.30	10.24	10.24
90.0	10.46	10.41	10.35	10.35	10.30	10.24	10.24	10.24	10.19
135.0	10.46	10.46	10.41	10.41	10.35	10.30	10.30	10.24	10.24
180.0	10.41	10.35	10.35	10.30	10.24	10.24	10.24	10.19	10.19
225.0	10.35	10.30	10.30	10.30	10.24	10.24	10.19	10.24	10.19
270.0	10.41	10.35	10.35	10.30	10.30	10.24	10.24	10.24	10.24
315.0	10.35	10.30	10.30	10.24	10.24	10.24	10.19	10.19	10.19
360.0	10.41	10.41	10.35	10.30	10.30	10.30	10.24	10.24	10.19
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.19	10.19	10.13	10.13	10.13	10.08	10.13	10.08	10.08
45.0	10.19	10.19	10.19	10.13	10.13	10.13	10.13	10.13	10.08
90.0	10.19	10.19	10.13	10.08	10.13	10.08	10.08	10.08	10.08
135.0	10.24	10.24	10.19	10.19	10.13	10.13	10.13	10.13	10.08
180.0	10.24	10.19	10.13	10.13	10.13	10.13	10.13	10.13	10.08
225.0	10.19	10.19	10.13	10.13	10.13	10.13	10.08	10.08	10.08
270.0	10.24	10.19	10.19	10.19	10.13	10.13	10.13	10.08	10.08
315.0	10.19	10.13	10.13	10.13	10.13	10.08	10.08	10.02	10.02
360.0	10.19	10.19	10.13	10.13	10.13	10.08	10.13	10.08	10.08
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.08	10.02	10.02	10.02	10.02	10.02	9.97	9.97	9.97
45.0	10.02	10.08	10.08	10.02	10.08	10.08	10.13	9.97	9.97
90.0	10.02	10.02	10.02	10.08	10.13	10.30	9.97	9.91	9.91
135.0	10.08	10.08	10.08	10.08	10.19	10.30	10.19	9.97	9.91
180.0	10.08	10.08	10.08	10.08	10.13	10.02	9.97	9.91	9.91
225.0	10.08	10.08	10.13	10.30	10.24	10.13	9.97	9.97	9.97
270.0	10.08	10.08	10.13	10.24	10.46	10.74	9.97	9.97	9.97
315.0	10.08	10.02	10.08	10.19	10.41	10.63	9.91	9.91	9.91
360.0	10.08	10.02	10.02	10.02	10.02	10.02	9.97	9.97	9.97

Intensity data(cd)

C/ γ (°)	90.0
0.0	9.97
45.0	9.97
90.0	9.91
135.0	9.97
180.0	9.97
225.0	9.97
270.0	9.91
315.0	9.91
360.0	9.97