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## NATA

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LumCAT: 4-2273-M	
Luminaire: 92.70.131.00	
Report No: NATA0100	Voltage(V): 34.1500
Test No: GC2019021902	Current(A): 0.5000
LampCAT: BRIDGELUX V13B	Power (W): 17.0750
Lamp flux(lm): 2569.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 100	Width(mm): 100
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 2263.30  
Efficiency(%): 88.10%  
Lumens(lm)/Power(W): 133.01  
Central intensity(cd): 32955.470  
Maximum intensity(cd): 32955.470  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=10.0  
                                  [C90/270]Total=10.0  
Field angle(10%Imax): [C0/180]Total=20.5  
                                  [C90/270]Total=20.5  
Maximum s/h(1/2): C0\_180=0.17 C90\_270=0.17  
Maximum s/h(1/4): C0\_180=0.18 C90\_270=0.18  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 88.40%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.477%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	32955.469	7.884	7.884	.307%	.348%
1.0	32226.328	61.676	69.561	2.401%	3.073%
2.0	29916.563	114.494	184.055	4.457%	8.132%
3.0	26128.125	149.955	334.009	5.837%	14.758%
4.0	21697.734	165.978	499.987	6.461%	22.091%
5.0	16410.305	156.843	656.83	6.105%	29.021%
6.0	12100.992	138.710	795.54	5.399%	35.150%
7.0	9061.172	121.096	916.636	4.714%	40.500%
8.0	6658.172	101.616	1018.252	3.955%	44.990%
9.0	4805.789	82.442	1100.694	3.209%	48.632%
10.0	3503.672	66.718	1167.413	2.597%	51.580%
11.0	2695.922	56.410	1223.823	2.196%	54.073%
12.0	2071.758	47.236	1271.058	1.839%	56.160%
13.0	1579.359	38.960	1310.019	1.517%	57.881%
14.0	1307.531	34.688	1344.707	1.350%	59.414%
15.0	1147.029	32.555	1377.262	1.267%	60.852%
16.0	1069.840	32.338	1409.6	1.259%	62.281%
17.0	1013.309	32.488	1442.088	1.265%	63.716%
18.0	970.516	32.888	1474.976	1.280%	65.169%
19.0	946.343	33.786	1508.762	1.315%	66.662%
20.0	924.455	34.673	1543.435	1.350%	68.194%
21.0	902.447	35.465	1578.9	1.381%	69.761%
22.0	883.027	36.274	1615.175	1.412%	71.364%
23.0	864.492	37.042	1652.217	1.442%	73.000%
24.0	849.030	37.869	1690.086	1.474%	74.674%
25.0	835.460	38.719	1728.805	1.507%	76.384%
26.0	823.957	39.609	1768.414	1.542%	78.134%
27.0	812.145	40.433	1808.847	1.574%	79.921%
28.0	802.835	41.332	1850.179	1.609%	81.747%
29.0	789.834	41.991	1892.17	1.635%	83.602%
30.0	778.212	42.670	1934.84	1.661%	85.488%
31.0	767.728	43.361	1978.201	1.688%	87.403%
32.0	755.423	43.899	2022.1	1.709%	89.343%
33.0	737.775	44.064	2066.164	1.715%	91.290%
34.0	671.548	41.180	2107.344	1.603%	93.109%
35.0	573.975	36.102	2143.447	1.405%	94.705%
36.0	441.183	28.437	2171.884	1.107%	95.961%
37.0	322.327	21.272	2193.156	.828%	96.901%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	233.564	15.769	2208.925	.614%	97.598%
39.0	90.380	6.237	2215.162	.243%	97.873%
40.0	34.650	2.442	2217.605	.095%	97.981%
41.0	23.632	1.700	2219.305	.066%	98.056%
42.0	20.116	1.476	2220.781	.057%	98.121%
43.0	16.390	1.226	2222.007	.048%	98.176%
44.0	11.960	0.911	2222.918	.035%	98.216%
45.0	11.130	0.863	2223.781	.034%	98.254%
46.0	10.870	0.857	2224.638	.033%	98.292%
47.0	10.624	0.852	2225.49	.033%	98.330%
48.0	10.420	0.849	2226.34	.033%	98.367%
49.0	10.245	0.848	2227.187	.033%	98.405%
50.0	10.083	0.847	2228.034	.033%	98.442%
51.0	9.914	0.845	2228.879	.033%	98.479%
52.0	9.766	0.844	2229.723	.033%	98.517%
53.0	9.647	0.845	2230.568	.033%	98.554%
54.0	9.527	0.845	2231.413	.033%	98.591%
55.0	9.415	0.846	2232.259	.033%	98.629%
56.0	9.323	0.848	2233.107	.033%	98.666%
57.0	9.225	0.848	2233.955	.033%	98.704%
58.0	9.155	0.851	2234.807	.033%	98.741%
59.0	9.077	0.853	2235.66	.033%	98.779%
60.0	9.014	0.856	2236.516	.033%	98.817%
61.0	8.944	0.858	2237.374	.033%	98.855%
62.0	8.902	0.862	2238.236	.034%	98.893%
63.0	8.845	0.864	2239.1	.034%	98.931%
64.0	8.796	0.867	2239.967	.034%	98.969%
65.0	8.747	0.869	2240.836	.034%	99.008%
66.0	8.726	0.874	2241.71	.034%	99.046%
67.0	8.684	0.877	2242.587	.034%	99.085%
68.0	8.655	0.880	2243.467	.034%	99.124%
69.0	8.634	0.884	2244.351	.034%	99.163%
70.0	8.620	0.888	2245.239	.035%	99.202%
71.0	8.585	0.890	2246.129	.035%	99.241%
72.0	8.585	0.895	2247.025	.035%	99.281%
73.0	8.564	0.898	2247.923	.035%	99.321%
74.0	8.571	0.904	2248.826	.035%	99.361%
75.0	8.543	0.905	2249.731	.035%	99.401%

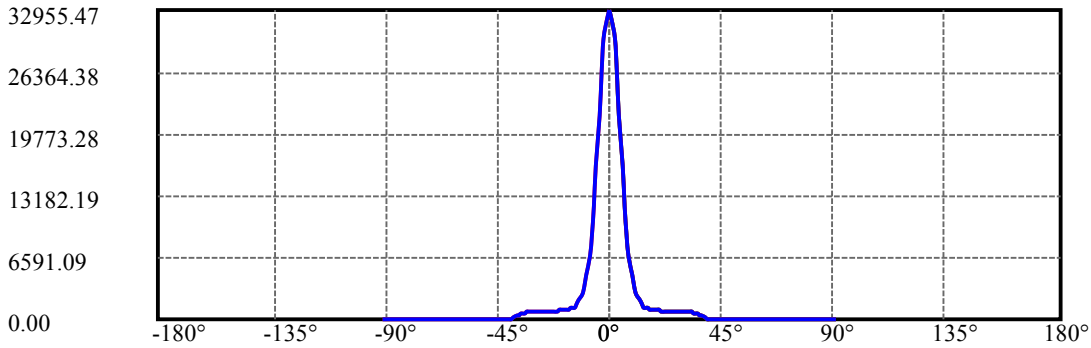
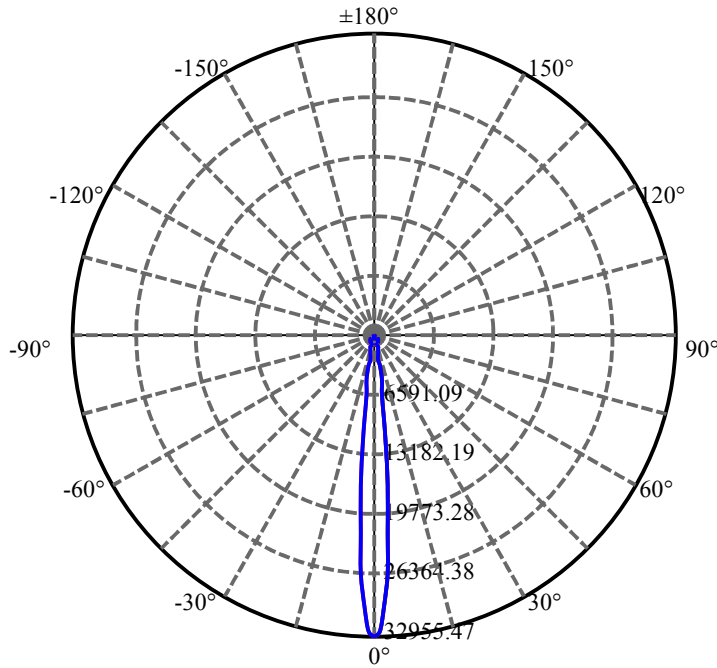
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.564	0.911	2250.642	.035%	99.441%
77.0	8.613	0.920	2251.563	.036%	99.481%
78.0	8.684	0.931	2252.494	.036%	99.523%
79.0	8.761	0.943	2253.437	.037%	99.564%
80.0	8.782	0.948	2254.386	.037%	99.606%
81.0	8.726	0.945	2255.331	.037%	99.648%
82.0	8.655	0.940	2256.271	.037%	99.690%
83.0	8.613	0.937	2257.208	.036%	99.731%
84.0	8.599	0.938	2258.146	.037%	99.772%
85.0	8.564	0.936	2259.082	.036%	99.814%
86.0	8.564	0.937	2260.018	.036%	99.855%
87.0	8.641	0.946	2260.965	.037%	99.897%
88.0	8.613	0.944	2261.909	.037%	99.939%
89.0	8.487	0.931	2262.839	.036%	99.980%
90.0	8.367	0.459	2263.298	.018%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1934.84	75.31%	85.49%
0-40	2217.60	86.32%	97.98%
0-60	2236.52	87.06%	98.82%
0-90	2262.84	88.08%	99.98%
0-120	2262.84	88.08%	99.98%
0-180	2263.30	88.10%	100.00%
60-90	27.18	1.06%	1.20%
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%
0-27.04	1810.64	70.48%	80.00%

ZONAL LUMEN SUMMARY

0-10	1167.41
10-20	376.02
20-30	391.40
30-40	282.76
40-50	10.43
50-60	8.48
60-70	8.72
70-80	9.15
80-90	8.45
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): —————

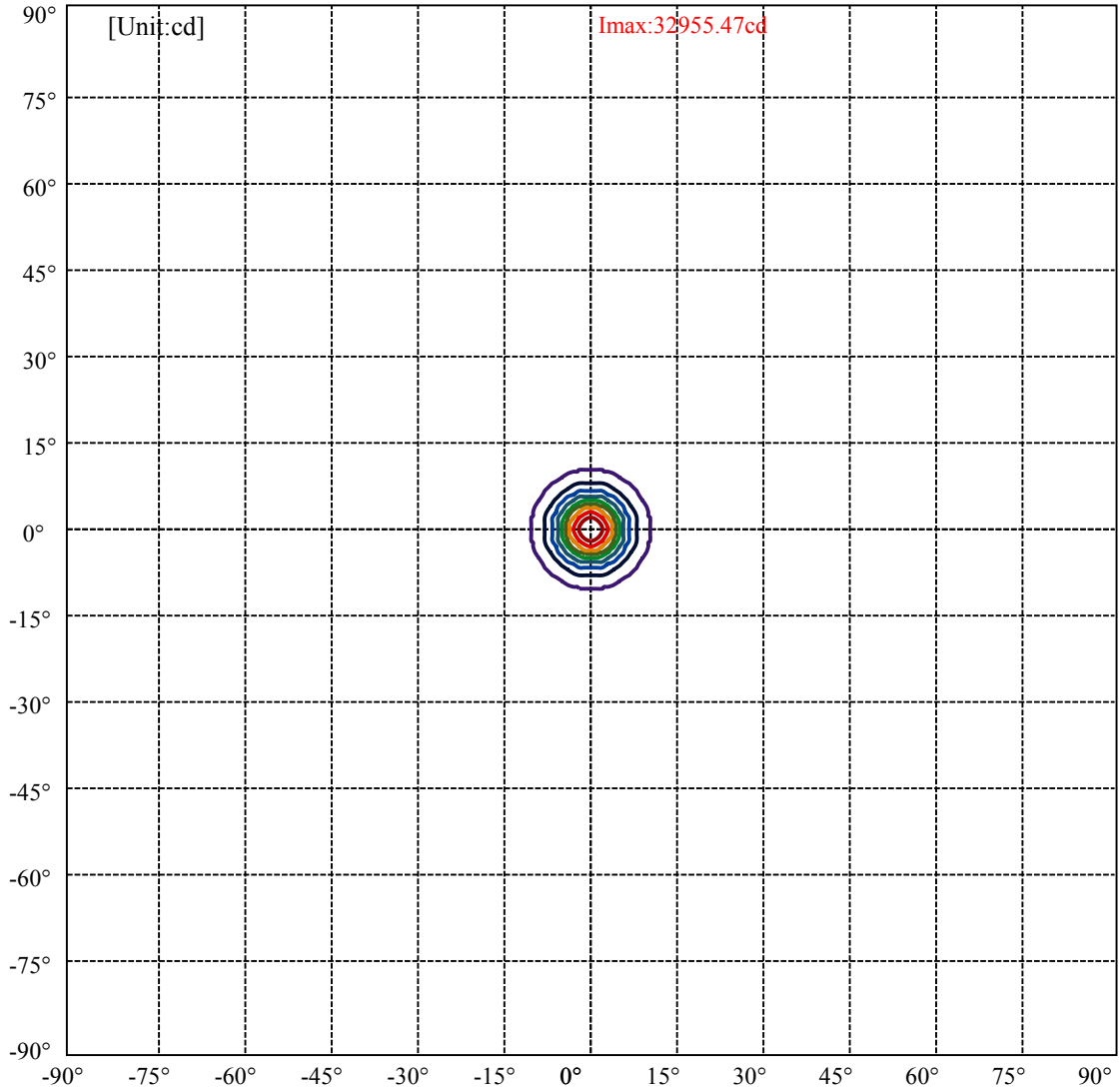
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:10.3 Right:10.3  
:C90/270Left:10.3 Right:10.3

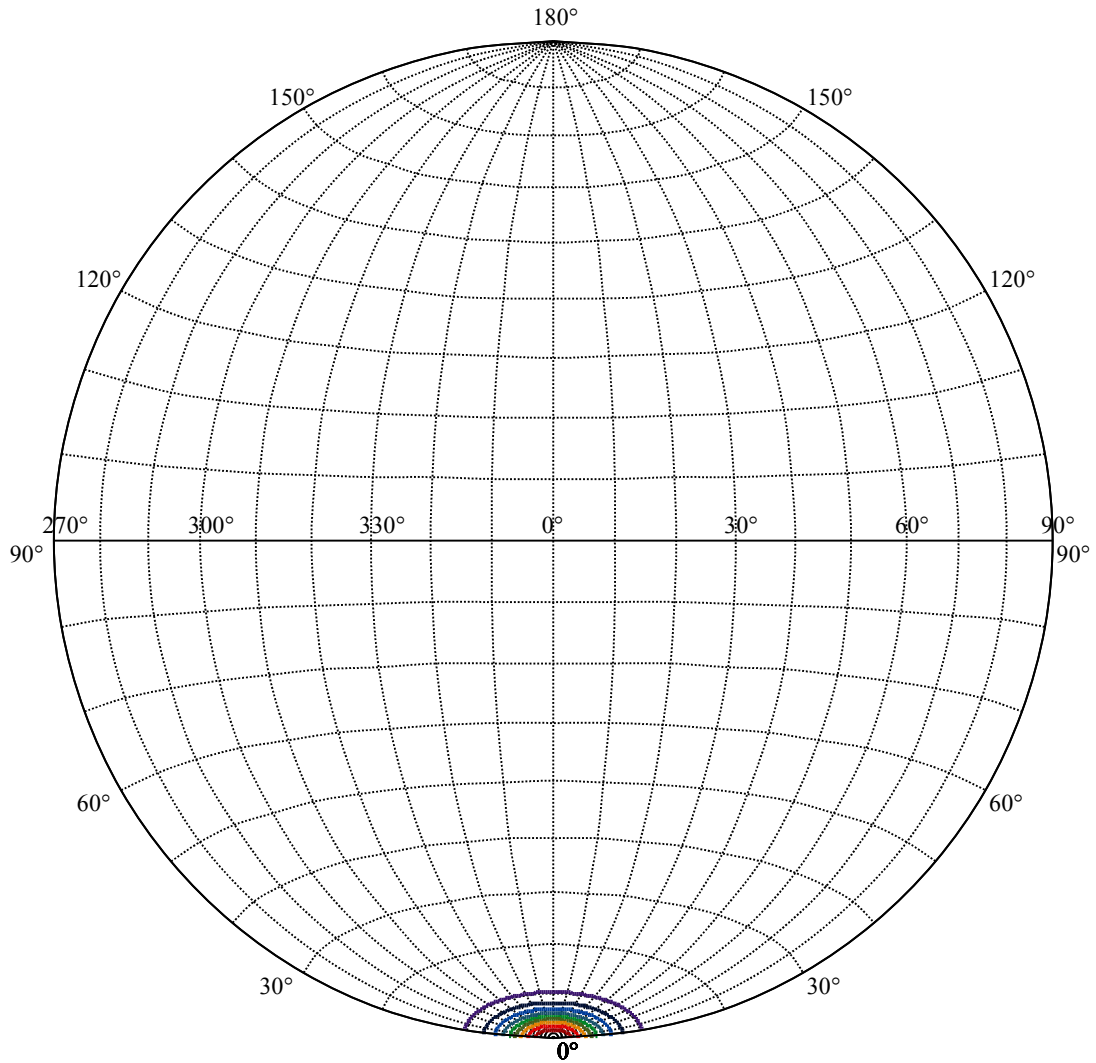
Beam Angle(50%Imax):C0/180Left:5.0 Right:5.0  
:C90/270Left:5.0 Right:5.0





(10%I <sub>max</sub> ) 3295.55	—
(20%I <sub>max</sub> ) 6591.09	—
(30%I <sub>max</sub> ) 9886.64	—
(40%I <sub>max</sub> ) 13182.2	—
(50%I <sub>max</sub> ) 16477.7	—
(60%I <sub>max</sub> ) 19773.3	—
(70%I <sub>max</sub> ) 23068.8	—
(80%I <sub>max</sub> ) 26364.4	—
(90%I <sub>max</sub> ) 29659.9	—





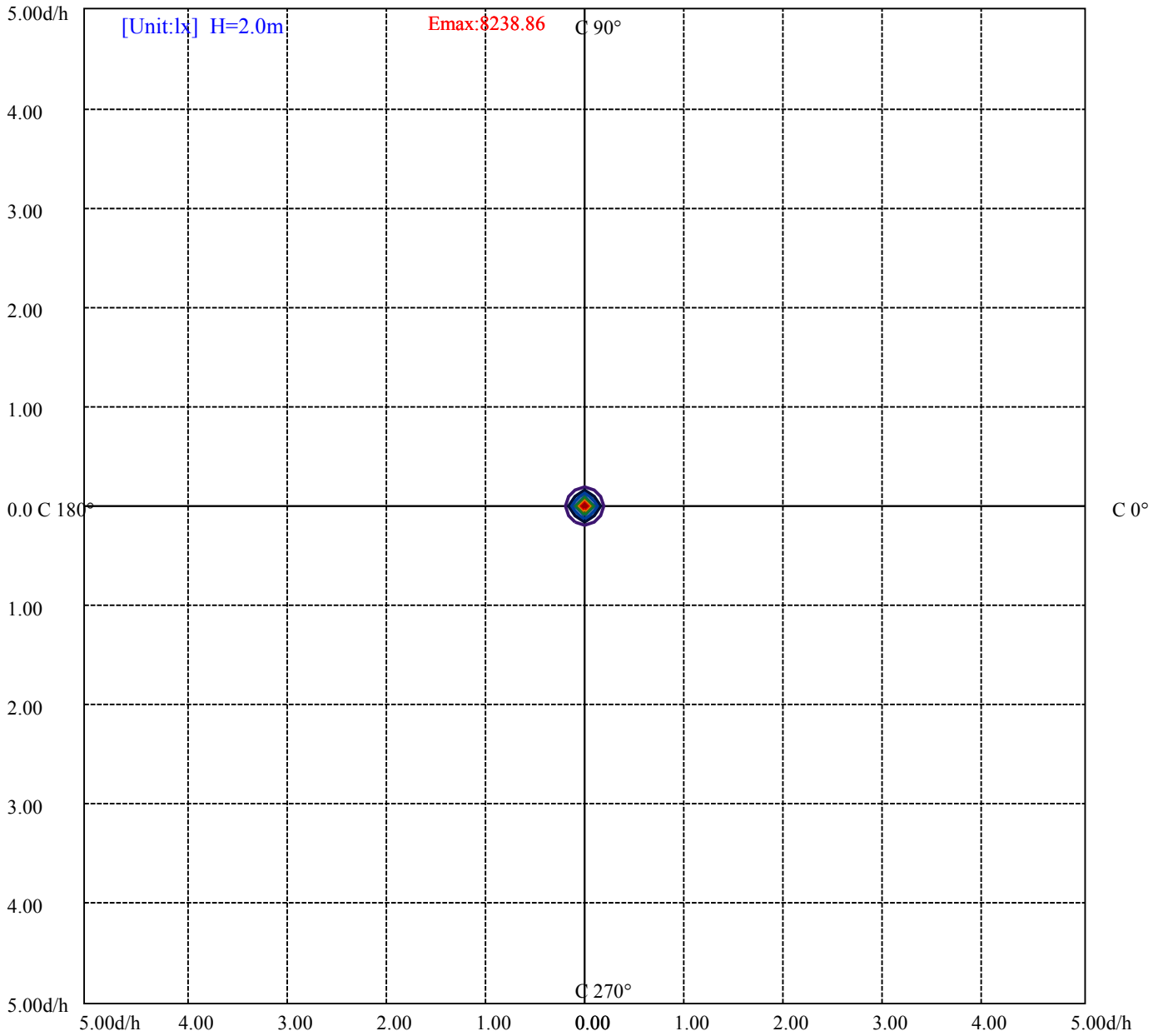
House

[Unit:cd]

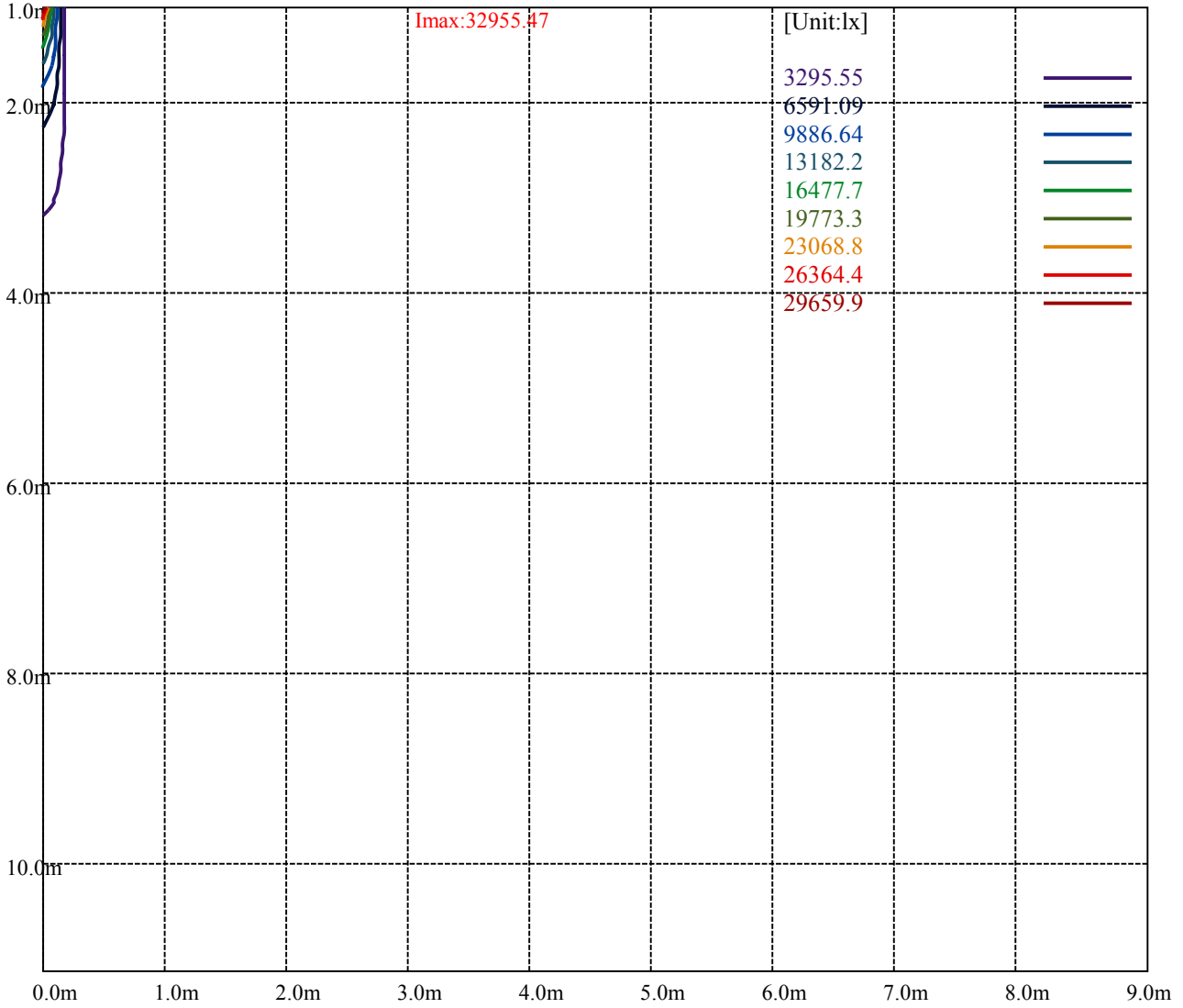
Road

Imax:32955.47

(10%Imax)	3295.55	—
(20%Imax)	6591.09	—
(30%Imax)	9886.64	—
(40%Imax)	13182.2	—
(50%Imax)	16477.7	—
(60%Imax)	19773.3	—
(70%Imax)	23068.8	—
(80%Imax)	26364.4	—
(90%Imax)	29659.9	—



- (10%Emax) 823.885
- (20%Emax) 1647.767
- (30%Emax) 2471.653
- (40%Emax) 3295.525
- (50%Emax) 4119.425
- (60%Emax) 4943.3
- (70%Emax) 5767.2
- (80%Emax) 6591.075
- (90%Emax) 7414.95



Luminance Table

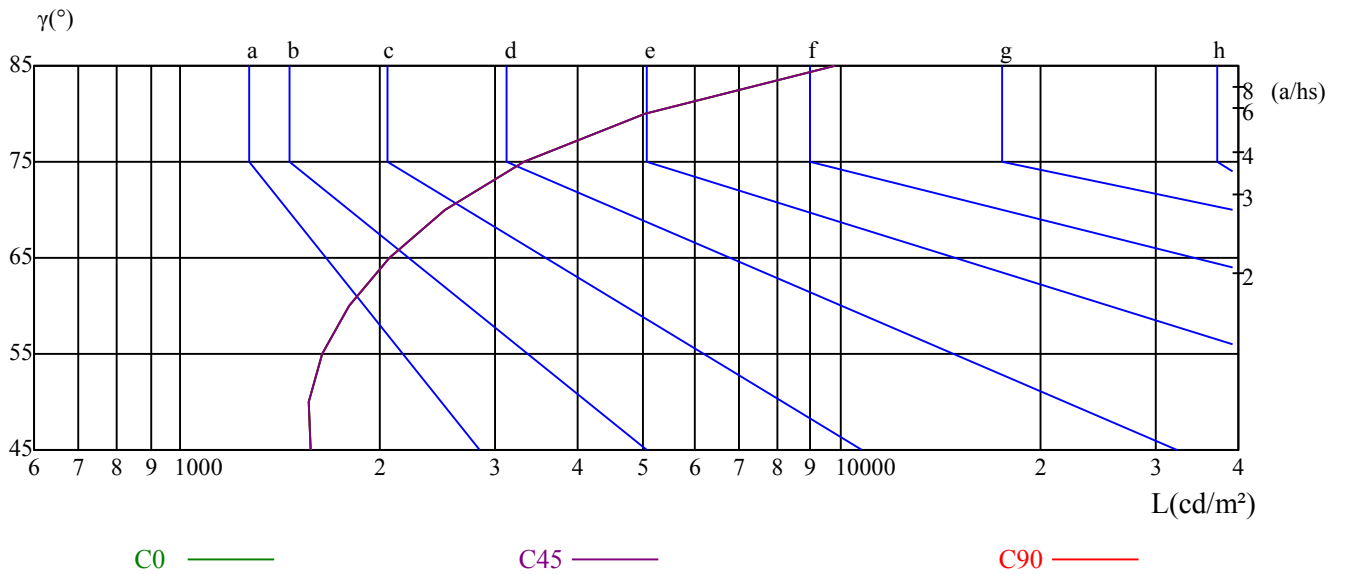
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1574	1569	1641	1803	2070	2520	3301	5057	9826
C45	1574	1569	1641	1803	2070	2520	3301	5057	9826
C90	1574	1569	1641	1803	2070	2520	3301	5057	9826

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2070	2070	2070	3301	3301	3301	9826	9826	9826

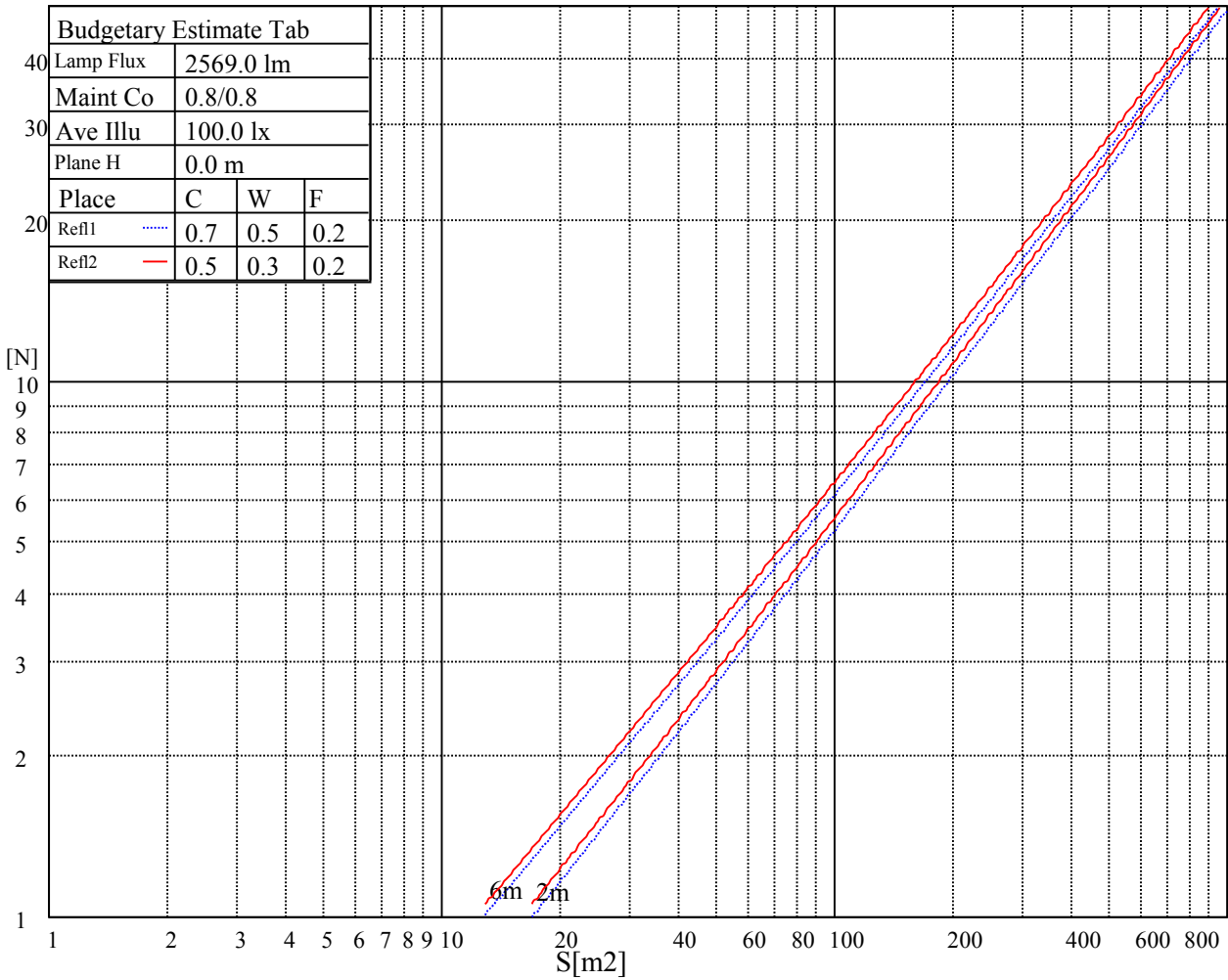
Glare Table

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

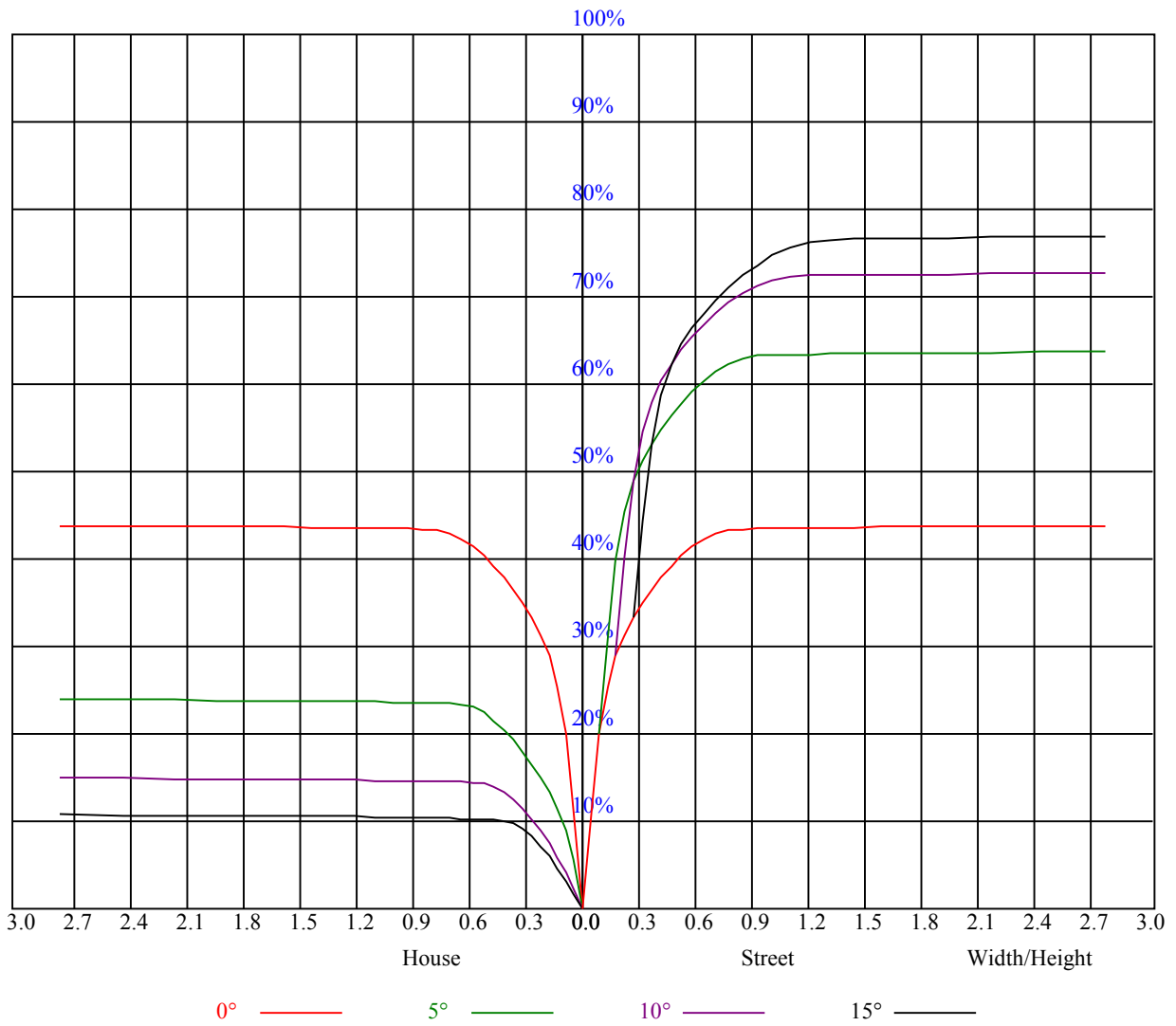
Luminance Limiting Curve



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	-0.68	0.22	-0.32	0.53	0.85	-0.69	0.22	-0.32	0.53	0.84
	3H	2.54	3.34	2.93	3.67	4.04	2.53	3.33	2.92	3.66	4.03
	4H	4.31	5.05	4.72	5.40	5.79	4.32	5.05	4.73	5.41	5.80
	6H	6.34	7.01	6.76	7.38	7.78	6.44	7.12	6.86	7.49	7.89
	8H	7.45	8.08	7.89	8.48	8.89	7.60	8.23	8.03	8.62	9.03
	12H	9.25	9.85	9.69	10.24	10.67	9.39	10.00	9.83	10.38	10.81
4H	2H	0.22	0.96	0.63	1.31	1.71	0.22	0.96	0.63	1.31	1.70
	3H	3.70	4.30	4.11	4.71	5.12	3.69	4.29	4.11	4.70	5.11
	4H	5.64	6.18	6.08	6.61	7.06	5.65	6.19	6.09	6.62	7.07
	6H	7.82	8.28	8.29	8.73	9.21	7.90	8.36	8.37	8.81	9.29
	8H	9.04	9.47	9.52	9.92	10.40	9.15	9.58	9.63	10.03	10.51
	12H	10.73	11.10	11.22	11.59	12.06	10.85	11.21	11.34	11.71	12.18
8H	4H	6.40	6.82	6.88	7.28	7.75	6.41	6.83	6.89	7.29	7.76
	6H	8.86	9.19	9.37	9.70	10.18	8.94	9.27	9.45	9.78	10.26
	8H	10.26	10.56	10.79	11.08	11.58	10.37	10.66	10.90	11.19	11.69
	12H	12.07	12.33	12.60	12.83	13.41	12.18	12.43	12.70	12.93	13.51
12H	4H	6.63	6.99	7.12	7.48	7.96	6.63	6.99	7.12	7.48	7.96
	6H	9.38	9.49	9.73	9.96	10.51	9.45	9.56	9.80	10.03	10.58
	8H	10.72	10.98	11.25	11.48	12.06	10.82	11.07	11.34	11.57	12.15
Variation with the observer position at spacings:											
S = 1.0H		5.8/-8.6					5.8/-8.6				
S = 1.5H		8.1/-6.4					8.1/-6.4				
S = 2.0H		9.5/-4.7					9.5/-4.7				
Standard tables:		BK2					BK2				
Uncorrected UGR		-1.2					-1.2				



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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.99	0.97	0.96	0.97	0.96	0.94	0.94	0.92	0.91	0.90	0.89	0.89	0.87	0.87	0.86	0.84
2	0.94	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.83	0.81
3	0.90	0.87	0.84	0.89	0.86	0.84	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.79
4	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.75	0.74
6	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.77	0.75	0.73	0.72
7	0.78	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.70
8	0.76	0.72	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.71	0.69	0.68
9	0.74	0.70	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.72	0.69	0.67	0.66
10	0.72	0.69	0.66	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





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	32923.13	32563.13	30453.75	26623.13	22314.38	17150.63	12448.13	9157.50	6789.38
45.0	32934.38	32872.50	30886.88	27708.75	23580.00	17938.13	13629.38	10006.88	7126.88
90.0	33091.88	32658.75	30442.50	26499.38	22252.50	17190.00	11098.13	9169.31	6577.88
135.0	32872.50	32940.00	31775.63	28215.00	24367.50	20013.75	14591.25	10878.75	8111.25
180.0	32923.13	31826.25	29424.38	25582.50	20880.00	16503.75	11147.06	8302.50	6418.69
225.0	32934.38	31702.50	28704.38	24637.50	20345.63	15406.88	11172.94	8341.88	6026.63
270.0	33091.88	32383.13	29446.88	25908.75	21633.75	16025.63	12071.25	9016.88	6738.75
315.0	32872.50	30864.38	28198.13	23850.00	18208.13	11053.69	10649.81	7615.69	5475.94
360.0	32923.13	32563.13	30453.75	26623.13	22314.38	17150.63	12448.13	9157.50	6789.38
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4725.00	3521.25	2925.00	1975.50	1537.88	1293.75	1132.31	1046.25	1002.38
45.0	5101.88	3791.25	2908.13	2065.50	1580.06	1324.69	1155.94	1059.75	1011.94
90.0	4903.31	3511.69	2529.00	1937.81	1545.19	1261.13	1118.70	1055.31	1005.41
135.0	5625.00	4196.25	3116.25	2902.50	1746.56	1452.38	1240.31	1105.31	1041.75
180.0	4771.69	3204.56	2539.69	1984.50	1577.25	1324.69	1114.82	1085.68	1015.14
225.0	4526.44	3312.00	2472.19	1946.25	1593.56	1314.00	1112.91	1084.67	1018.29
270.0	4696.88	3532.50	2880.00	2031.19	1617.75	1377.56	1199.25	1087.88	1025.44
315.0	4096.13	2959.88	2197.13	1730.81	1436.63	1112.06	1101.99	1033.88	986.12
360.0	4725.00	3521.25	2925.00	1975.50	1537.88	1293.75	1132.31	1046.25	1002.38
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	964.13	942.19	924.19	905.06	886.50	865.69	848.25	835.88	825.19
45.0	969.75	948.94	928.13	906.75	887.63	869.06	853.31	840.94	830.81
90.0	968.06	946.80	922.67	897.98	878.23	857.36	845.38	831.54	818.21
135.0	985.50	954.00	930.38	907.31	887.63	871.31	853.31	838.69	828.00
180.0	969.13	940.39	914.74	889.26	870.24	854.66	841.16	826.82	813.88
225.0	975.71	949.78	924.08	900.00	879.86	861.36	847.80	834.30	823.33
270.0	976.50	950.63	930.38	911.25	893.25	876.94	858.38	844.31	832.50
315.0	955.35	938.03	921.09	901.97	880.88	859.56	844.65	831.21	819.73
360.0	964.13	942.19	924.19	905.06	886.50	865.69	848.25	835.88	825.19
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	811.69	803.81	792.00	782.44	770.63	758.81	745.88	668.25	566.44
45.0	816.75	807.75	798.75	784.13	774.00	762.75	745.31	680.06	601.88
90.0	809.72	801.06	784.41	775.07	765.11	749.87	732.77	666.51	572.79
135.0	814.50	804.38	793.69	779.06	767.81	757.13	745.31	702.00	626.06
180.0	803.36	793.46	777.71	766.80	757.29	743.68	729.73	668.14	559.58
225.0	811.80	802.46	788.63	777.15	767.19	754.48	737.66	668.25	565.93
270.0	819.00	808.88	795.94	784.13	773.44	763.31	751.50	687.38	591.75
315.0	810.34	800.89	787.56	776.93	766.35	753.36	714.04	631.80	507.38
360.0	811.69	803.81	792.00	782.44	770.63	758.81	745.88	668.25	566.44
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	452.25	316.69	287.44	98.33	31.50	25.88	22.39	18.56	11.59
45.0	455.06	340.88	294.19	92.76	34.93	23.46	20.03	16.82	12.54
90.0	428.96	310.22	183.99	80.89	29.53	22.16	19.01	15.75	11.14
135.0	503.44	393.75	298.13	144.34	55.46	23.68	19.91	16.31	13.78
180.0	436.56	322.43	198.68	92.36	36.28	23.74	20.19	16.65	11.36
225.0	419.40	301.50	188.04	72.73	28.63	23.51	19.69	15.92	11.81
270.0	462.38	339.75	294.19	91.35	33.69	23.29	19.80	16.14	12.32
315.0	371.42	253.41	123.86	50.29	27.17	23.34	19.91	14.96	11.14
360.0	452.25	316.69	287.44	98.33	31.50	25.88	22.39	18.56	11.59

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	11.25	10.91	10.69	10.46	10.24	10.07	9.96	9.79	9.68
45.0	11.25	11.03	10.80	10.58	10.41	10.24	10.07	9.96	9.79
90.0	10.91	10.69	10.46	10.29	10.18	10.01	9.84	9.68	9.62
135.0	11.03	10.74	10.63	10.41	10.18	10.07	9.90	9.73	9.62
180.0	11.08	10.91	10.58	10.41	10.24	10.07	9.90	9.73	9.62
225.0	11.48	11.19	10.91	10.63	10.46	10.29	10.07	9.90	9.79
270.0	11.14	10.86	10.58	10.35	10.18	10.01	9.84	9.73	9.56
315.0	10.91	10.63	10.35	10.24	10.07	9.90	9.73	9.62	9.51
360.0	11.25	10.91	10.69	10.46	10.24	10.07	9.96	9.79	9.68
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.56	9.39	9.34	9.23	9.17	9.11	9.00	8.94	8.89
45.0	9.68	9.56	9.51	9.34	9.28	9.23	9.11	9.06	9.00
90.0	9.51	9.39	9.28	9.23	9.11	9.06	8.94	8.94	8.89
135.0	9.51	9.39	9.28	9.23	9.11	9.00	9.00	8.89	8.89
180.0	9.51	9.39	9.28	9.17	9.11	9.06	9.00	8.94	8.89
225.0	9.62	9.51	9.45	9.28	9.23	9.11	9.11	9.00	8.94
270.0	9.45	9.39	9.28	9.23	9.17	9.06	9.00	8.94	8.89
315.0	9.39	9.28	9.17	9.11	9.06	9.00	8.94	8.83	8.83
360.0	9.56	9.39	9.34	9.23	9.17	9.11	9.00	8.94	8.89
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.83	8.78	8.72	8.72	8.66	8.66	8.61	8.61	8.55
45.0	9.00	8.89	8.83	8.83	8.78	8.78	8.72	8.72	8.66
90.0	8.83	8.78	8.78	8.66	8.66	8.61	8.61	8.61	8.55
135.0	8.78	8.78	8.72	8.72	8.66	8.61	8.61	8.61	8.55
180.0	8.83	8.78	8.72	8.72	8.66	8.61	8.61	8.55	8.61
225.0	8.89	8.89	8.78	8.78	8.72	8.66	8.72	8.72	8.66
270.0	8.83	8.78	8.72	8.72	8.66	8.66	8.61	8.61	8.55
315.0	8.78	8.72	8.72	8.66	8.66	8.66	8.61	8.55	8.55
360.0	8.83	8.78	8.72	8.72	8.66	8.66	8.61	8.61	8.55
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.55	8.49	8.55	8.49	8.49	8.49	8.49	8.49	8.61
45.0	8.66	8.61	8.66	8.55	8.55	8.55	8.55	8.55	8.61
90.0	8.55	8.55	8.55	8.49	8.55	8.55	8.55	8.55	8.55
135.0	8.55	8.55	8.49	8.49	8.44	8.44	8.44	8.49	8.44
180.0	8.61	8.61	8.55	8.61	8.61	8.78	8.94	9.28	9.39
225.0	8.66	8.61	8.66	8.66	8.78	8.89	9.11	9.34	9.34
270.0	8.55	8.55	8.55	8.49	8.49	8.44	8.49	8.49	8.55
315.0	8.55	8.55	8.55	8.55	8.61	8.78	8.89	8.89	8.78
360.0	8.55	8.49	8.55	8.49	8.49	8.49	8.49	8.49	8.61
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.66	8.61	8.55	8.49	8.49	8.49	8.44	8.44	8.38
45.0	8.55	8.55	8.61	8.61	8.61	8.61	9.62	9.68	8.44
90.0	8.55	8.55	8.61	8.61	8.61	8.61	8.55	8.55	8.83
135.0	8.44	8.44	8.44	8.44	8.44	8.38	8.38	8.44	8.44
180.0	9.39	9.17	9.00	8.89	8.83	8.83	8.66	8.38	8.49
225.0	9.06	8.89	8.78	8.78	8.66	8.66	8.61	8.55	8.55
270.0	8.49	8.49	8.44	8.49	8.44	8.44	8.44	8.44	8.44
315.0	8.66	8.55	8.49	8.49	8.44	8.49	8.44	8.44	8.33
360.0	8.66	8.61	8.55	8.49	8.49	8.49	8.44	8.44	8.38

Intensity data(cd)

C/γ(°)	90.0
0.0	8.33
45.0	8.38
90.0	8.38
135.0	8.38
180.0	8.38
225.0	8.38
270.0	8.38
315.0	8.33
360.0	8.33