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NATA

LumCAT: 1545-E

Luminaire:

Report No: NATA0100

Voltage(V): 28.7200

Test No: GC2019010819

Current(A): 0.3490

LampCAT: XICATO XTM LES 9MM

Power (W): 10.0000

Lamp flux(lm): 538.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 21

Width(mm): 21

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 469.99

Efficiency(%): 87.36%

Lumens(lm)/Power(W): 47.01

Central intensity(cd): 584.325

Maximum intensity(cd): 584.325

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.2

[C90/270]Total=44.2

Field angle(10%Imax): [C0/180]Total=95.3

[C90/270]Total=95.3

Maximum s/h(1/2): C0_180=0.70 C90_270=0.70

Maximum s/h(1/4): C0_180=0.75 C90_270=0.75

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 87.38%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.241%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	584.325	0.140	0.14	.026%	.030%
1.0	583.741	1.117	1.257	.208%	.267%
2.0	582.131	2.228	3.485	.414%	.741%
3.0	579.389	3.325	6.81	.618%	1.449%
4.0	575.648	4.403	11.214	.818%	2.386%
5.0	570.495	5.453	16.666	1.013%	3.546%
6.0	564.279	6.468	23.134	1.202%	4.922%
7.0	556.109	7.432	30.566	1.381%	6.504%
8.0	547.116	8.350	38.916	1.552%	8.280%
9.0	535.774	9.191	48.107	1.708%	10.236%
10.0	522.654	9.953	58.06	1.850%	12.353%
11.0	508.809	10.646	68.706	1.979%	14.619%
12.0	493.031	11.241	79.947	2.089%	17.010%
13.0	474.982	11.717	91.664	2.178%	19.503%
14.0	455.688	12.089	103.754	2.247%	22.076%
15.0	436.064	12.377	116.13	2.300%	24.709%
16.0	414.991	12.544	128.674	2.332%	27.378%
17.0	394.889	12.661	141.335	2.353%	30.072%
18.0	372.902	12.637	153.971	2.349%	32.760%
19.0	352.589	12.588	166.559	2.340%	35.439%
20.0	331.636	12.438	178.998	2.312%	38.085%
21.0	311.590	12.245	191.243	2.276%	40.691%
22.0	293.822	12.070	203.313	2.244%	43.259%
23.0	277.052	11.871	215.184	2.207%	45.785%
24.0	261.302	11.655	226.839	2.166%	48.264%
25.0	247.247	11.459	238.298	2.130%	50.702%
26.0	235.048	11.299	249.597	2.100%	53.107%
27.0	223.404	11.122	260.719	2.067%	55.473%
28.0	213.413	10.987	271.706	2.042%	57.811%
29.0	204.251	10.859	282.565	2.018%	60.121%
30.0	196.516	10.775	293.34	2.003%	62.414%
31.0	188.845	10.666	304.006	1.983%	64.683%
32.0	181.610	10.554	314.56	1.962%	66.929%
33.0	174.790	10.439	324.999	1.940%	69.150%
34.0	167.463	10.269	335.268	1.909%	71.335%
35.0	159.940	10.060	345.328	1.870%	73.475%
36.0	151.847	9.788	355.116	1.819%	75.558%
37.0	144.148	9.513	364.629	1.768%	77.582%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	135.724	9.163	373.792	1.703%	79.532%
39.0	127.308	8.786	382.578	1.633%	81.401%
40.0	119.320	8.411	390.989	1.563%	83.190%
41.0	111.319	8.009	398.997	1.489%	84.894%
42.0	102.776	7.541	406.539	1.402%	86.499%
43.0	94.388	7.059	413.598	1.312%	88.001%
44.0	86.688	6.604	420.202	1.227%	89.406%
45.0	78.448	6.083	426.285	1.131%	90.700%
46.0	70.995	5.600	431.885	1.041%	91.892%
47.0	63.253	5.073	436.958	.943%	92.971%
48.0	56.032	4.566	441.524	.849%	93.943%
49.0	48.727	4.033	445.557	.750%	94.801%
50.0	41.379	3.476	449.033	.646%	95.540%
51.0	34.755	2.962	451.995	.551%	96.171%
52.0	28.519	2.464	454.459	.458%	96.695%
53.0	22.289	1.952	456.411	.363%	97.110%
54.0	16.819	1.492	457.903	.277%	97.428%
55.0	12.516	1.124	459.028	.209%	97.667%
56.0	9.014	0.819	459.847	.152%	97.841%
57.0	6.806	0.626	460.473	.116%	97.975%
58.0	5.393	0.502	460.975	.093%	98.081%
59.0	4.795	0.451	461.425	.084%	98.177%
60.0	4.402	0.418	461.843	.078%	98.266%
61.0	4.064	0.390	462.233	.072%	98.349%
62.0	3.846	0.372	462.606	.069%	98.428%
63.0	3.684	0.360	462.966	.067%	98.505%
64.0	3.537	0.349	463.314	.065%	98.579%
65.0	3.382	0.336	463.65	.062%	98.651%
66.0	3.270	0.328	463.978	.061%	98.720%
67.0	3.164	0.319	464.297	.059%	98.788%
68.0	3.066	0.312	464.609	.058%	98.855%
69.0	2.974	0.304	464.913	.057%	98.919%
70.0	2.890	0.298	465.211	.055%	98.983%
71.0	2.820	0.292	465.504	.054%	99.045%
72.0	2.749	0.287	465.79	.053%	99.106%
73.0	2.693	0.282	466.073	.052%	99.166%
74.0	2.609	0.275	466.348	.051%	99.225%
75.0	2.566	0.272	466.619	.051%	99.282%

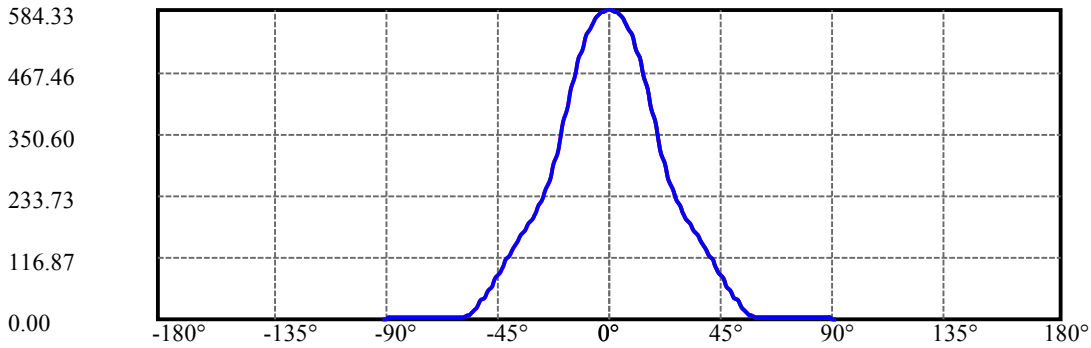
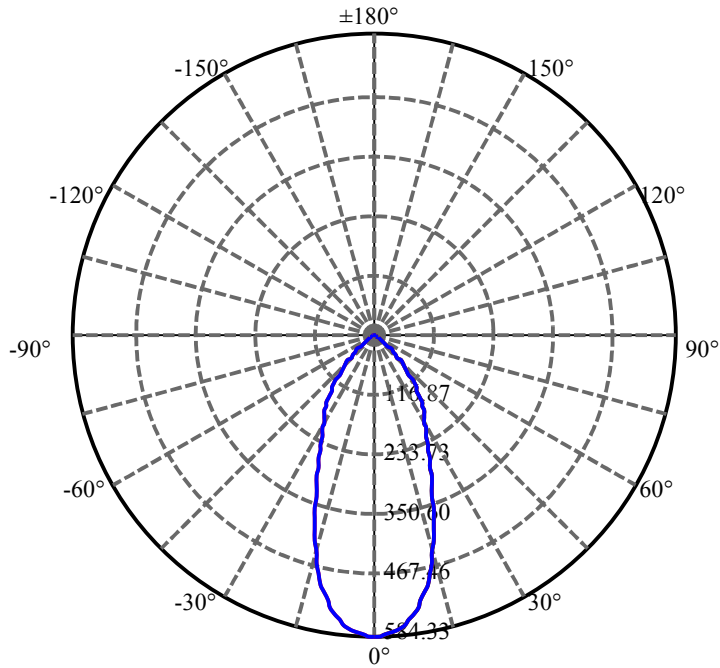
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.496	0.266	466.885	.049%	99.339%
77.0	2.468	0.264	467.149	.049%	99.395%
78.0	2.398	0.257	467.406	.048%	99.450%
79.0	2.355	0.254	467.66	.047%	99.504%
80.0	2.292	0.248	467.907	.046%	99.556%
81.0	2.243	0.243	468.15	.045%	99.608%
82.0	2.180	0.237	468.387	.044%	99.658%
83.0	2.123	0.231	468.618	.043%	99.708%
84.0	2.067	0.225	468.843	.042%	99.756%
85.0	2.011	0.220	469.063	.041%	99.802%
86.0	1.983	0.217	469.28	.040%	99.848%
87.0	1.927	0.211	469.491	.039%	99.893%
88.0	1.870	0.205	469.696	.038%	99.937%
89.0	1.814	0.199	469.895	.037%	99.979%
90.0	1.779	0.098	469.992	.018%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	293.34	54.52%	62.41%
0-40	390.99	72.67%	83.19%
0-60	461.84	85.84%	98.27%
0-90	469.89	87.34%	99.98%
0-120	469.89	87.34%	99.98%
0-180	469.99	87.36%	100.00%
60-90	8.47	1.57%	1.80%
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%
0-38.25	375.99	69.89%	80.00%

ZONAL LUMEN SUMMARY

0-10	58.06
10-20	120.94
20-30	114.34
30-40	97.65
40-50	58.04
50-60	12.81
60-70	3.37
70-80	2.70
80-90	1.99
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: —————

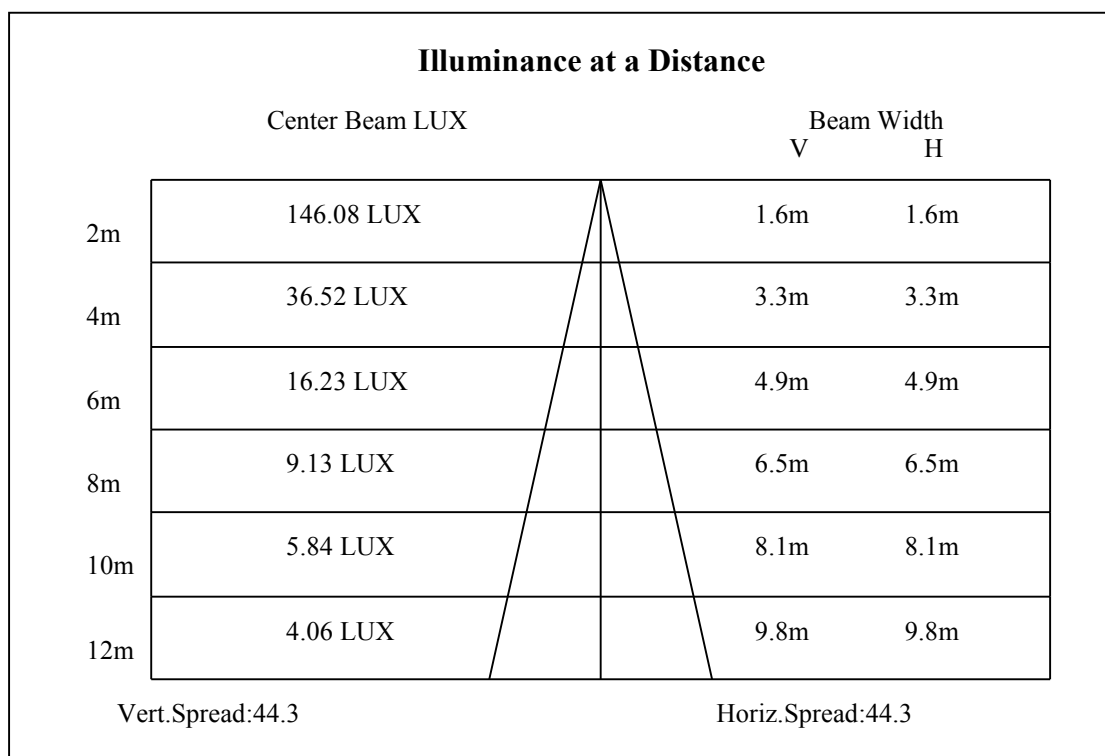
C90/C270: —————

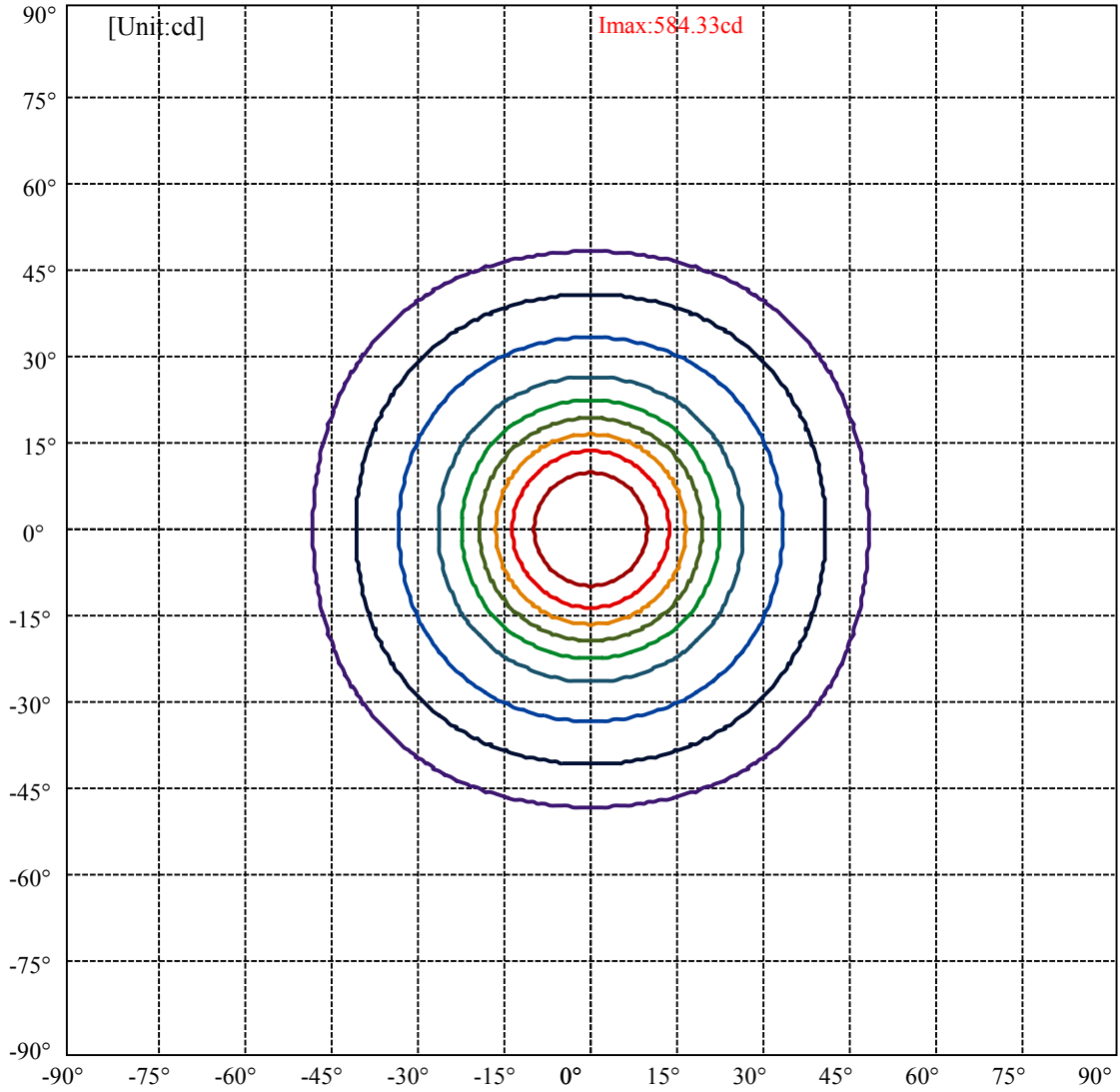
Field angle(10%Imax):C0/180Left:47.7 Right:47.7

:C90/270Left:47.7 Right:47.7

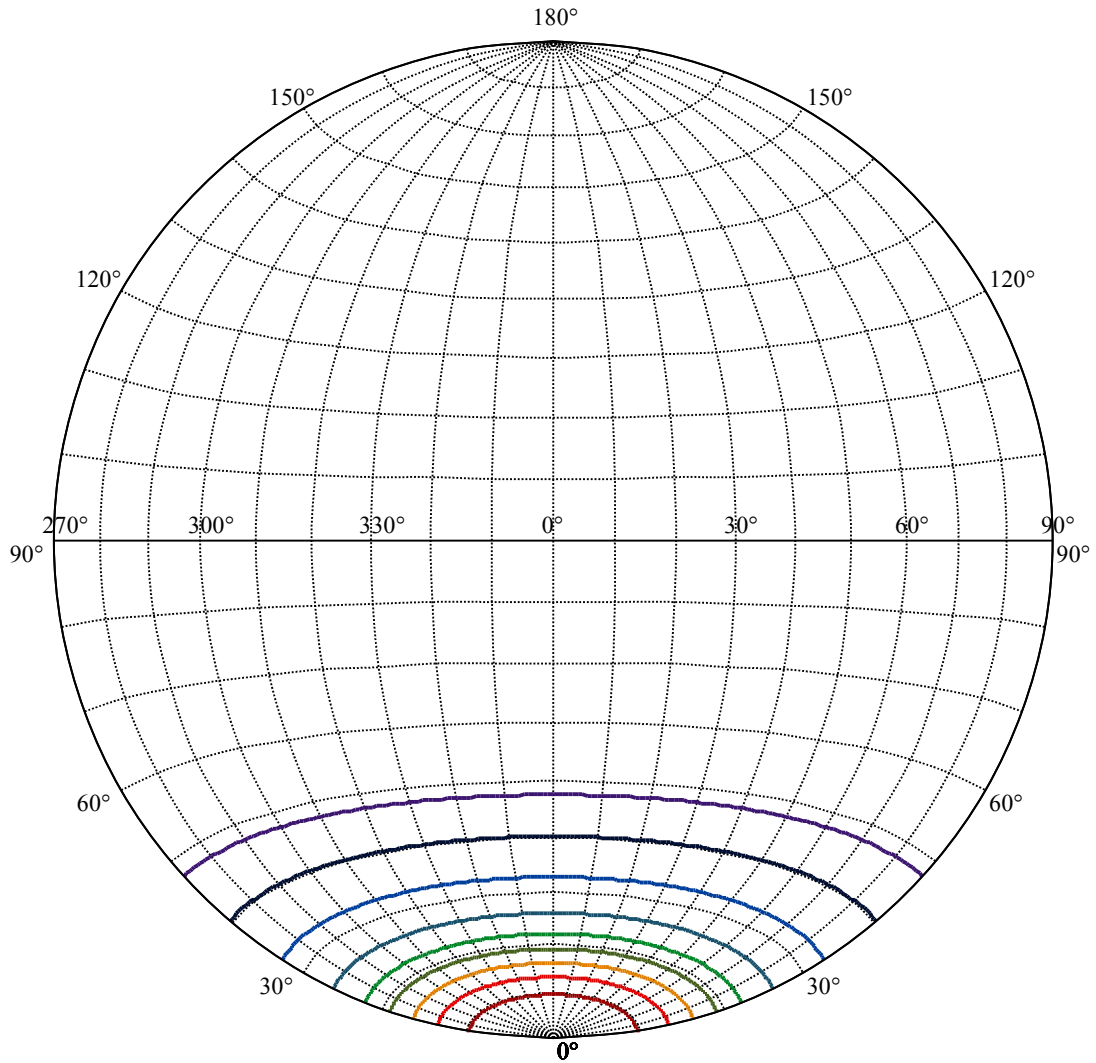
Beam Angle(50%Imax):C0/180Left:22.1 Right:22.1

:C90/270Left:22.1 Right:22.1





(10%Imax) 58.4325	—
(20%Imax) 116.865	—
(30%Imax) 175.298	—
(40%Imax) 233.73	—
(50%Imax) 292.163	—
(60%Imax) 350.595	—
(70%Imax) 409.027	—
(80%Imax) 467.46	—
(90%Imax) 525.893	—



House

[Unit:cd]

Road

Imax:584.33

(10%Imax) 58.4325

(20%Imax) 116.865

(30%Imax) 175.298

(40%Imax) 233.73

(50%Imax) 292.163

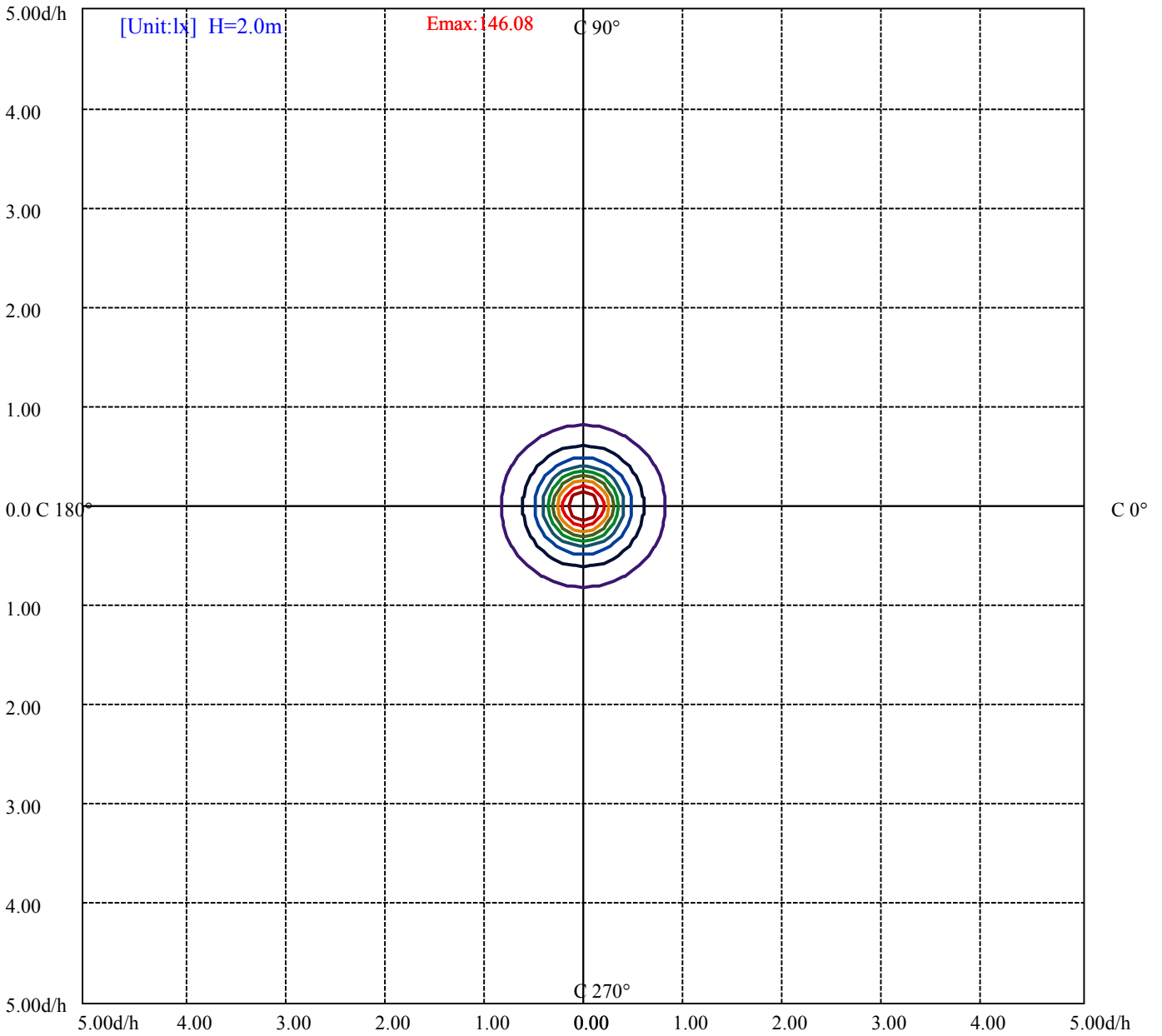
(60%Imax) 350.595

(70%Imax) 409.027

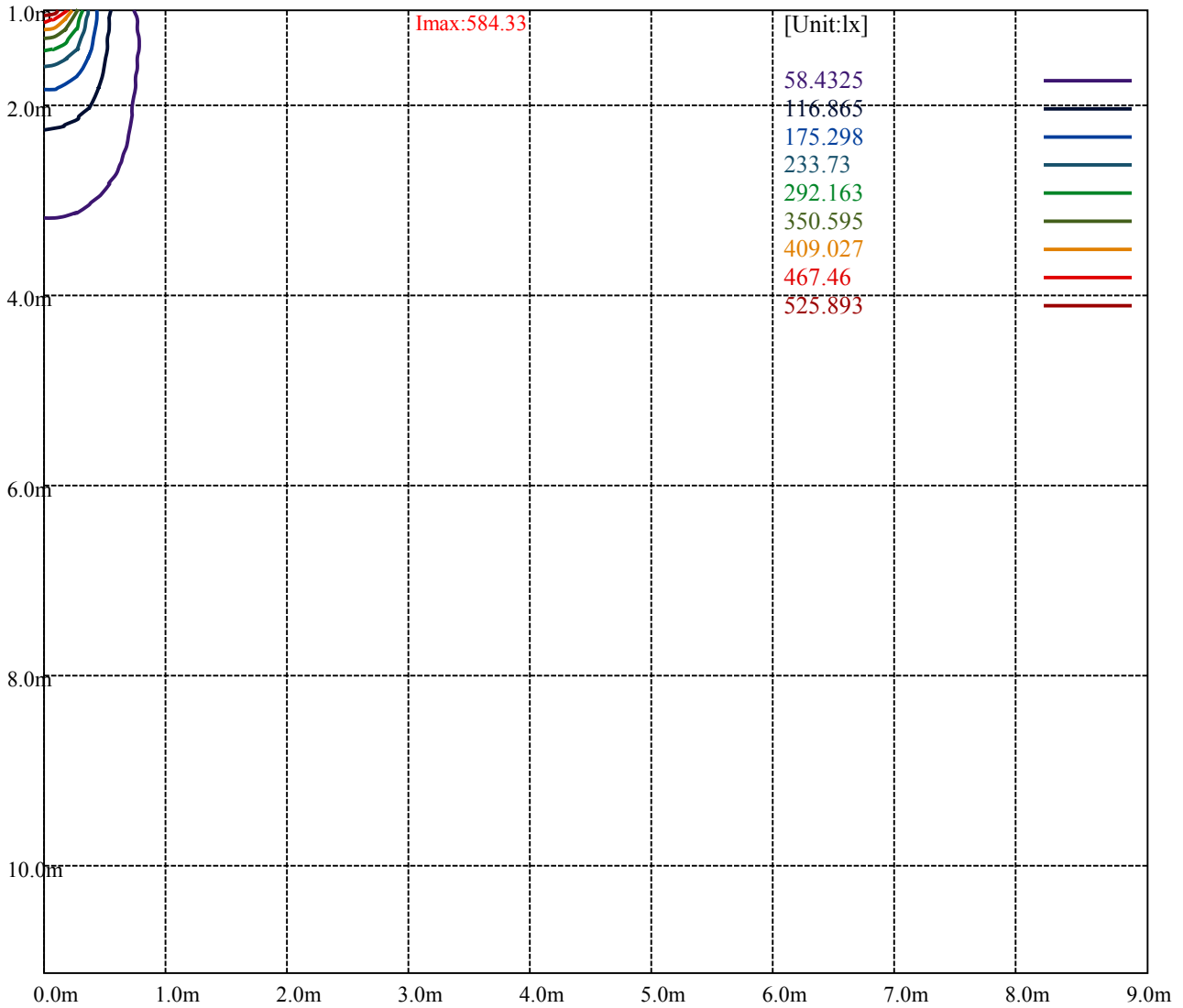
(80%Imax) 467.46

(90%Imax) 525.893





- (10%Emax) 14.60812 ———
- (20%Emax) 29.21625 ———
- (30%Emax) 43.82425 ———
- (40%Emax) 58.4325 ———
- (50%Emax) 73.0405 ———
- (60%Emax) 87.64875 ———
- (70%Emax) 102.2568 ———
- (80%Emax) 116.865 ———
- (90%Emax) 131.473 ———



Luminance Table

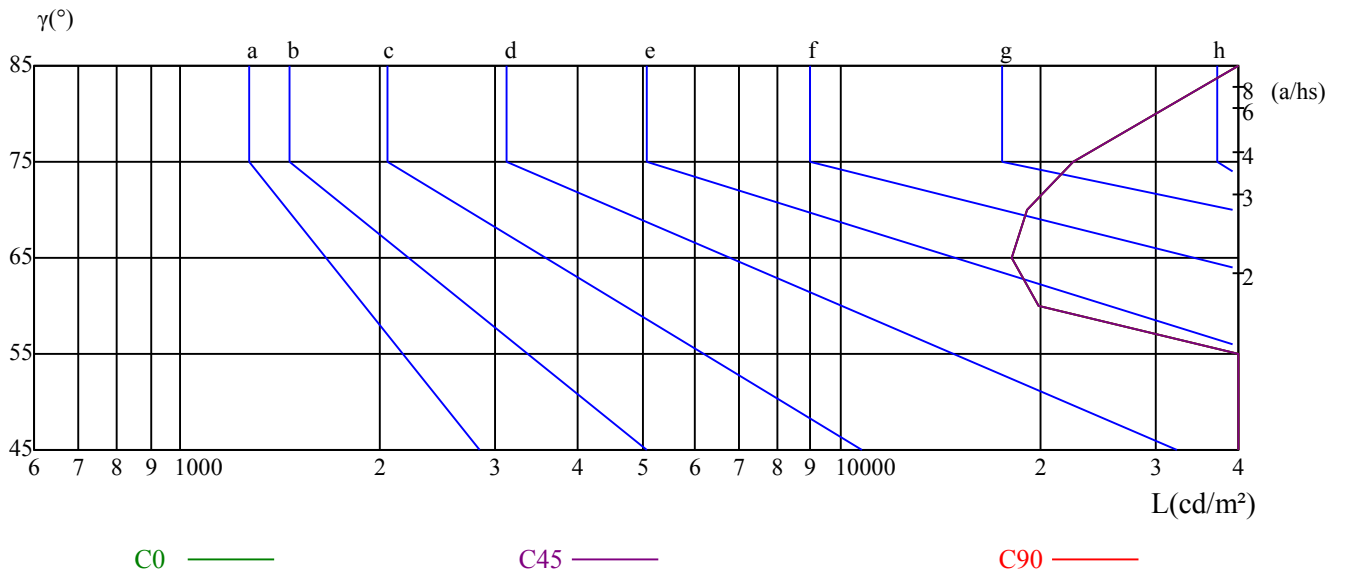
γ	45	50	55	60	65	70	75	80	85
C0	251569	145973	49479	19962	18146	19160	22485	29932	52320
C45	251569	145973	49479	19962	18146	19160	22485	29932	52320
C90	251569	145973	49479	19962	18146	19160	22485	29932	52320

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
18146	18146	18146	22485	22485	22485	52320	52320	52320

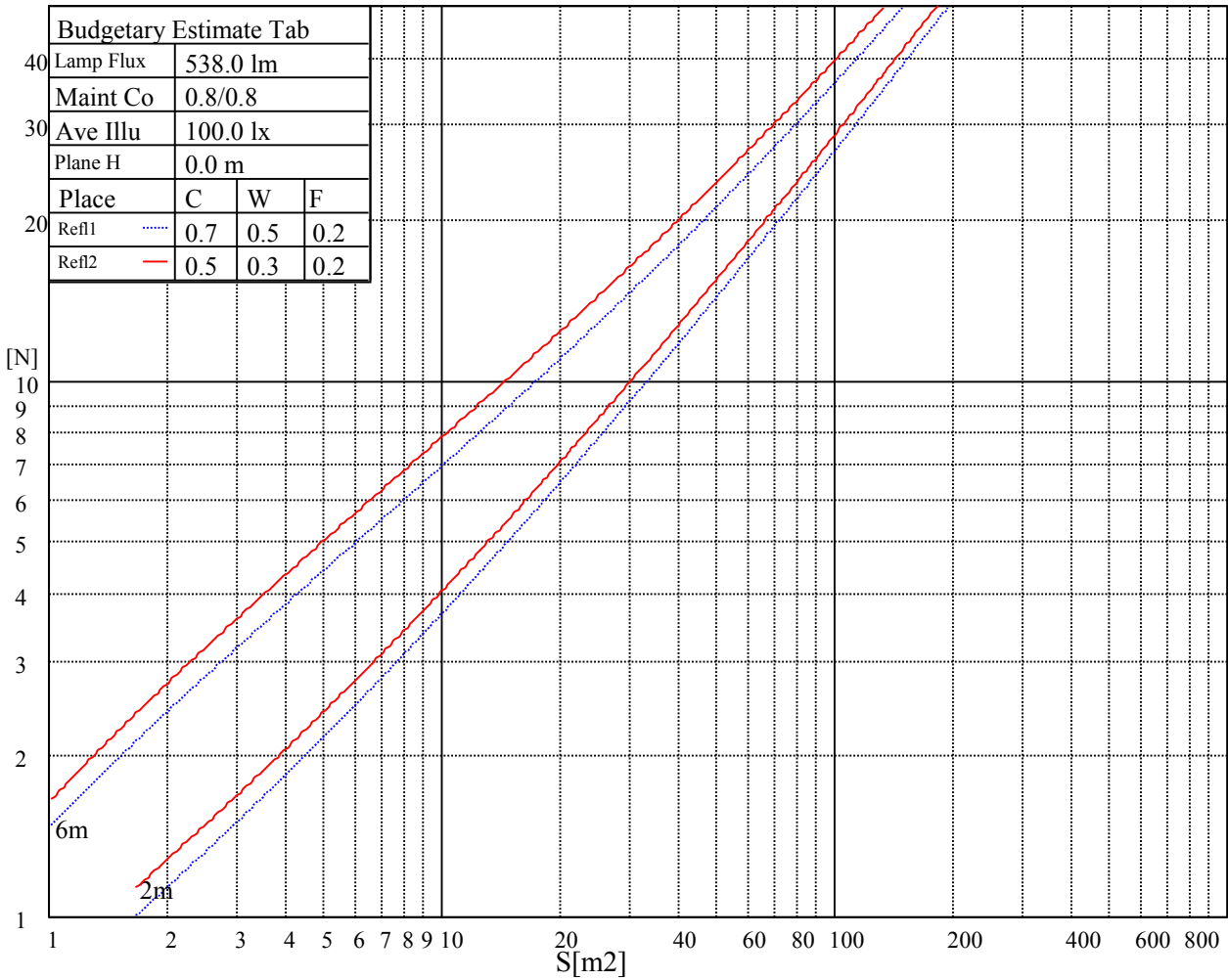
Glare Table

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

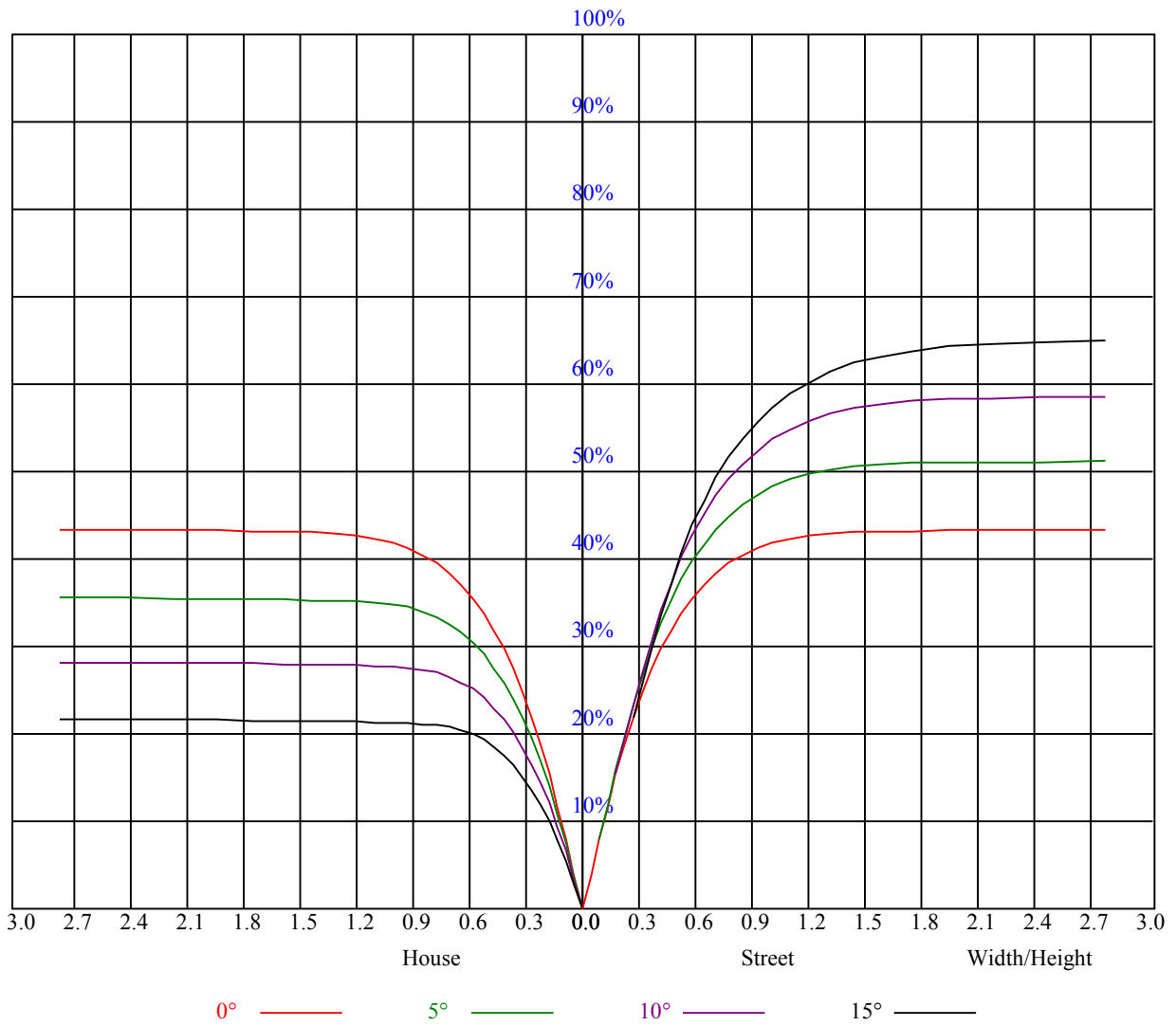
Luminance Limiting Curve



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	19.85	20.96	20.21	21.27	21.59	20.07	21.19	20.44	21.50	21.81
	3H	20.58	21.56	20.96	21.89	22.26	20.65	21.63	21.04	21.96	22.33
	4H	21.14	22.05	21.55	22.40	22.79	21.09	22.00	21.50	22.35	22.74
	6H	21.95	22.77	22.36	23.15	23.54	21.69	22.52	22.11	22.89	23.29
	8H	22.43	23.21	22.86	23.60	24.01	22.08	22.86	22.52	23.26	23.66
	12H	23.28	24.03	23.71	24.41	24.84	22.88	23.62	23.31	24.01	24.44
4H	2H	19.86	20.76	20.26	21.12	21.50	20.07	20.97	20.47	21.33	21.71
	3H	20.88	21.61	21.29	22.02	22.42	20.91	21.65	21.33	22.06	22.46
	4H	21.66	22.31	22.09	22.73	23.18	21.56	22.22	22.00	22.64	23.09
	6H	22.65	23.21	23.12	23.66	24.13	22.38	22.94	22.85	23.39	23.86
	8H	23.31	23.83	23.78	24.28	24.76	22.94	23.46	23.41	23.91	24.38
	12H	24.26	24.72	24.75	25.21	25.69	23.85	24.31	24.34	24.80	25.27
8H	4H	21.92	22.44	22.39	22.89	23.37	21.83	22.36	22.31	22.81	23.28
	6H	23.20	23.62	23.70	24.12	24.60	22.93	23.35	23.44	23.85	24.34
	8H	24.05	24.43	24.58	24.95	25.45	23.69	24.07	24.22	24.59	25.09
	12H	25.28	25.62	25.80	26.12	26.69	24.91	25.24	25.43	25.74	26.32
12H	4H	21.97	22.43	22.46	22.92	23.39	21.90	22.36	22.39	22.85	23.33
	6H	23.73	23.73	23.88	24.20	24.75	23.49	23.49	23.64	23.96	24.51
	8H	24.32	24.66	24.84	25.15	25.73	23.99	24.33	24.51	24.83	25.40
Variation with the observer position at spacings:											
S = 1.0H	1.9/-7.1					1.9/-7.1					
S = 1.5H	4.0/-8.0					4.0/-8.0					
S = 2.0H	5.9/-6.9					5.9/-6.9					
Standard tables:	BK1					BK1					
Uncorrected UGR	8.9					8.9					



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	1.04	1.04	1.04	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.87
1	0.96	0.94	0.92	0.94	0.92	0.90	0.91	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.89	0.85	0.82	0.87	0.84	0.81	0.84	0.82	0.79	0.82	0.80	0.77	0.79	0.78	0.76	0.74
3	0.82	0.78	0.74	0.81	0.77	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.69
4	0.77	0.71	0.68	0.76	0.71	0.67	0.74	0.70	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.63
5	0.71	0.66	0.62	0.71	0.66	0.62	0.69	0.65	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.59
6	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.55
7	0.63	0.57	0.53	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.52	0.51
8	0.59	0.53	0.50	0.58	0.53	0.50	0.57	0.53	0.49	0.56	0.52	0.49	0.56	0.52	0.49	0.48
9	0.56	0.50	0.47	0.55	0.50	0.46	0.54	0.50	0.46	0.53	0.49	0.46	0.53	0.49	0.46	0.45
10	0.52	0.47	0.44	0.52	0.47	0.44	0.51	0.47	0.44	0.51	0.46	0.43	0.50	0.46	0.43	0.42



NATA 1545-E

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	583.82	582.19	579.43	576.00	570.88	564.24	557.21	547.82	538.03
45.0	585.45	583.14	579.60	575.49	569.81	562.61	554.68	543.83	532.74
90.0	584.55	582.30	579.38	574.88	569.08	562.50	554.57	542.42	530.94
135.0	583.48	583.54	582.02	579.71	576.56	571.05	565.14	557.78	547.93
180.0	583.82	584.21	583.71	581.68	579.04	575.44	569.87	562.78	555.30
225.0	585.45	586.41	586.46	585.00	582.86	579.71	574.76	569.36	562.84
270.0	584.55	585.45	585.51	584.38	582.47	579.43	574.93	569.87	563.79
315.0	583.48	582.69	580.95	577.97	574.48	568.97	563.06	555.02	545.34
360.0	583.82	582.19	579.43	576.00	570.88	564.24	557.21	547.82	538.03
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	525.49	511.20	496.74	480.83	459.23	440.44	421.03	396.11	375.69
45.0	518.79	503.10	487.58	470.81	448.14	429.53	410.34	385.59	366.30
90.0	518.12	500.01	484.37	467.33	446.85	425.36	405.90	383.79	363.71
135.0	536.46	524.36	509.34	494.55	476.49	457.14	438.92	417.43	396.73
180.0	545.12	533.03	520.48	504.68	488.98	469.97	450.00	431.72	412.71
225.0	552.71	542.81	531.28	514.69	501.53	483.30	461.42	445.16	425.98
270.0	554.34	545.06	534.43	520.37	504.28	487.97	467.78	446.29	426.60
315.0	535.16	521.66	506.25	491.01	474.36	451.80	433.13	413.83	391.39
360.0	525.49	511.20	496.74	480.83	459.23	440.44	421.03	396.11	375.69
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	355.73	336.26	312.92	294.92	278.33	261.28	246.21	234.11	221.79
45.0	345.99	324.06	303.41	287.61	270.06	255.54	240.92	228.15	218.08
90.0	341.49	320.01	302.18	283.33	266.18	252.45	240.24	226.24	216.34
135.0	376.65	356.29	333.39	316.35	298.41	279.56	265.73	253.29	240.13
180.0	388.13	368.33	349.09	325.97	308.42	292.39	276.13	261.34	249.24
225.0	402.08	382.39	362.87	338.79	320.18	302.57	284.23	267.92	254.76
270.0	404.10	384.24	361.91	339.64	320.29	302.06	280.86	265.22	250.99
315.0	369.06	349.14	327.32	306.11	288.73	270.56	256.11	241.71	229.05
360.0	355.73	336.26	312.92	294.92	278.33	261.28	246.21	234.11	221.79
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	210.94	202.50	194.40	188.04	181.07	173.31	166.78	158.96	151.26
45.0	207.45	198.28	190.86	184.28	175.95	169.09	161.78	153.06	145.07
90.0	207.56	197.61	190.46	183.83	176.01	169.31	162.23	153.28	146.93
135.0	228.21	218.76	209.19	201.66	194.01	186.98	181.01	173.59	165.54
180.0	236.87	226.74	216.51	207.34	200.31	193.22	186.75	180.96	174.32
225.0	242.55	229.89	218.76	209.98	201.32	193.67	186.64	180.73	173.93
270.0	235.01	224.10	214.31	204.53	195.98	189.11	181.97	175.44	167.40
315.0	218.64	209.42	199.52	192.49	186.13	178.20	171.17	163.69	155.08
360.0	210.94	202.50	194.40	188.04	181.07	173.31	166.78	158.96	151.26
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	144.06	137.53	127.29	119.76	113.46	104.34	96.41	90.23	81.51
45.0	137.87	129.88	121.67	114.36	105.92	98.21	89.72	81.34	74.03
90.0	139.11	129.99	123.53	115.31	105.98	99.34	91.74	81.56	75.15
135.0	158.06	150.64	140.85	133.09	125.10	116.83	106.82	98.83	91.18
180.0	165.04	157.33	149.51	139.33	131.29	123.08	113.74	104.68	96.64
225.0	164.76	157.22	149.40	140.46	131.68	123.53	115.65	105.92	97.99
270.0	159.19	151.54	142.99	134.38	126.79	119.36	109.80	102.43	95.06
315.0	146.70	139.05	130.56	121.78	114.36	105.86	98.33	90.11	81.96
360.0	144.06	137.53	127.29	119.76	113.46	104.34	96.41	90.23	81.51

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	74.03	68.12	59.96	53.16	46.52	37.69	30.99	24.64	17.55
45.0	65.87	58.22	51.64	45.11	37.24	31.22	25.54	19.63	14.01
90.0	67.95	60.13	52.48	45.73	38.53	31.73	25.88	19.80	15.02
135.0	81.73	74.53	67.67	60.02	52.71	46.07	38.59	32.51	25.43
180.0	87.30	79.54	71.21	63.28	56.36	48.83	41.63	35.27	29.25
225.0	90.23	81.45	73.01	65.64	57.66	49.89	43.31	36.28	30.43
270.0	85.67	78.19	70.82	62.61	54.51	47.48	40.05	33.75	27.06
315.0	74.81	67.78	59.23	52.71	46.29	38.14	32.06	26.27	19.58
360.0	74.03	68.12	59.96	53.16	46.52	37.69	30.99	24.64	17.55
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.60	8.83	6.13	5.40	5.06	4.61	4.16	3.94	3.77
45.0	10.24	6.92	5.40	4.95	4.50	4.16	3.94	3.77	3.54
90.0	10.52	7.31	5.57	5.12	4.67	4.33	4.11	3.94	3.77
135.0	19.41	14.63	9.79	6.41	4.89	4.56	4.16	3.88	3.77
180.0	22.22	17.04	12.43	8.21	5.68	4.89	4.61	4.11	3.88
225.0	24.02	18.45	14.01	10.18	6.53	5.29	4.95	4.44	4.11
270.0	20.93	16.14	11.53	8.21	6.36	5.63	5.06	4.50	4.22
315.0	14.63	10.80	7.26	5.96	5.46	4.89	4.22	3.94	3.71
360.0	12.60	8.83	6.13	5.40	5.06	4.61	4.16	3.94	3.77
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.60	3.43	3.26	3.15	2.98	2.87	2.81	2.70	2.64
45.0	3.43	3.32	3.21	3.09	3.04	2.93	2.81	2.70	2.70
90.0	3.66	3.54	3.38	3.32	3.21	3.15	3.09	2.98	2.93
135.0	3.60	3.43	3.32	3.21	3.09	3.04	2.93	2.87	2.81
180.0	3.66	3.54	3.38	3.21	3.15	3.04	2.87	2.87	2.76
225.0	3.88	3.71	3.54	3.49	3.32	3.26	3.15	3.04	2.98
270.0	4.05	3.88	3.71	3.54	3.49	3.38	3.32	3.21	3.09
315.0	3.60	3.43	3.26	3.15	3.04	2.87	2.81	2.76	2.64
360.0	3.60	3.43	3.26	3.15	2.98	2.87	2.81	2.70	2.64
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.59	2.53	2.42	2.36	2.31	2.19	2.14	2.08	1.97
45.0	2.64	2.53	2.53	2.48	2.42	2.31	2.31	2.25	2.14
90.0	2.87	2.81	2.70	2.70	2.64	2.64	2.53	2.53	2.42
135.0	2.70	2.70	2.59	2.53	2.48	2.48	2.36	2.31	2.31
180.0	2.70	2.59	2.53	2.48	2.36	2.36	2.31	2.25	2.19
225.0	2.87	2.87	2.76	2.76	2.64	2.59	2.53	2.53	2.48
270.0	3.04	2.93	2.87	2.81	2.76	2.76	2.70	2.70	2.64
315.0	2.59	2.59	2.48	2.42	2.36	2.42	2.31	2.19	2.19
360.0	2.59	2.53	2.42	2.36	2.31	2.19	2.14	2.08	1.97
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.97	1.97	1.91	1.91	1.86	1.86	1.80	1.80	1.74
45.0	2.08	2.03	1.97	1.91	1.86	1.86	1.86	1.74	1.74
90.0	2.36	2.25	2.14	2.03	1.91	1.86	1.74	1.69	1.69
135.0	2.25	2.25	2.19	2.25	2.25	2.14	2.08	1.91	1.80
180.0	2.14	2.08	2.08	1.97	1.97	1.91	1.91	1.91	1.91
225.0	2.42	2.36	2.36	2.25	2.25	2.31	2.25	2.19	2.03
270.0	2.59	2.48	2.36	2.25	2.14	2.03	1.91	1.86	1.80
315.0	2.14	2.03	1.97	1.97	1.86	1.91	1.86	1.86	1.80
360.0	1.97	1.97	1.91	1.91	1.86	1.86	1.80	1.80	1.74

Intensity data(cd)

C/γ(°)	90.0
0.0	1.69
45.0	1.69
90.0	1.74
135.0	1.86
180.0	1.91
225.0	1.97
270.0	1.69
315.0	1.69
360.0	1.69