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乐达凯

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Client:

LumCAT: WTNW0810LAJUDWH-2700K

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.070

LampCAT:

Current(A): 0.181

Lamp flux(lm): 1027.1

Power (W): 21.490

Number of Lamps: 1

PF: 0.992

Length(mm): 190

Width(mm): 65

Phm Type: C

Height(mm): 0

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Photometric Results

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Lumens(lm): 1027.08, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 47.79

Central intensity(cd): 566.212, Maximum intensity(cd): 566.212

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=88.4

[C90/270]Total=66.0

Field angle(10%Imax): [C0/180]Total=148.6

[C90/270]Total=137.4

Maximum s/h(1/2): C0\_180=1.11 C90\_270=0.93

Maximum s/h(1/4): C0\_180=1.20 C90\_270=1.00

Up flux rate of lamp(%): 0.47%

Down flux rate of lamp(%): 99.53%

Up flux rate of LUM(%): 0.47%

Down flux rate of LUM(%): 99.53%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 85.626%

## 乐达凯 WTNW0810LAJUDWH-2700K

Zonal flux distribution table

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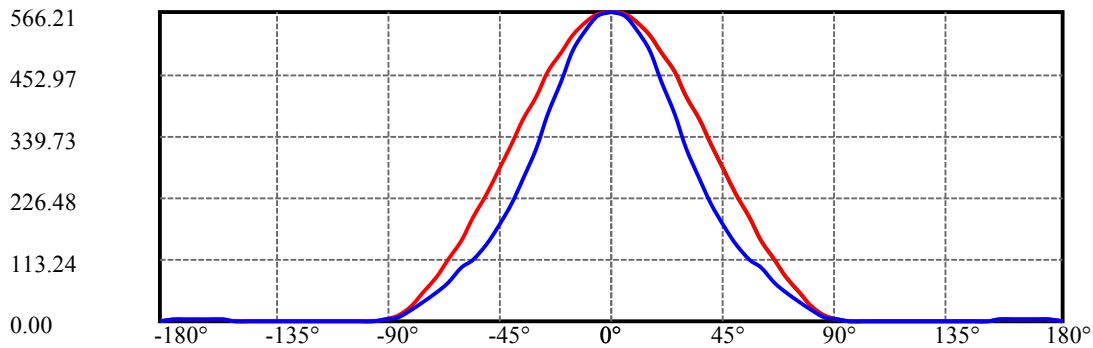
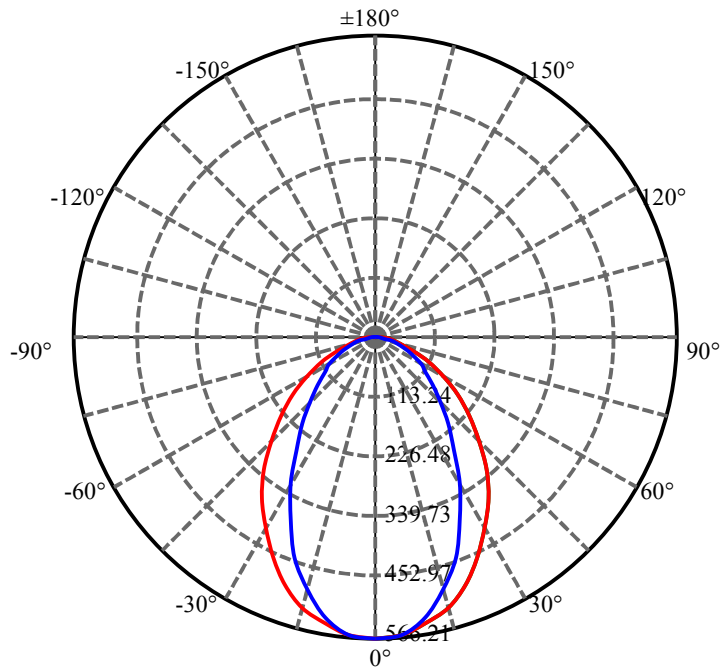
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	566.212	0.000	0	0.00%	0.00%
5.0	560.039	13.464	13.464	1.31%	1.31%
10.0	541.233	39.396	52.86	3.84%	5.15%
15.0	509.647	62.337	115.197	6.07%	11.22%
20.0	467.875	80.561	195.759	7.84%	19.06%
25.0	416.884	92.795	288.554	9.03%	28.09%
30.0	363.401	98.746	387.299	9.61%	37.71%
35.0	311.421	99.372	486.672	9.68%	47.38%
40.0	263.056	95.847	582.519	9.33%	56.72%
45.0	216.501	88.794	671.313	8.65%	65.36%
50.0	176.886	79.490	750.802	7.74%	73.10%
55.0	142.693	69.487	820.289	6.77%	79.87%
60.0	113.246	59.160	879.449	5.76%	85.63%
65.0	86.223	48.491	927.94	4.72%	90.35%
70.0	62.540	37.668	965.608	3.67%	94.01%
75.0	41.364	27.159	992.767	2.64%	96.66%
80.0	23.534	17.365	1010.132	1.69%	98.35%
85.0	9.397	8.948	1019.08	0.87%	99.22%
90.0	2.319	3.208	1022.288	0.31%	99.53%
95.0	0.498	0.771	1023.059	0.08%	99.61%
100.0	0.356	0.232	1023.291	0.02%	99.63%
105.0	0.345	0.187	1023.479	0.02%	99.65%
110.0	0.337	0.178	1023.657	0.02%	99.67%
115.0	0.348	0.174	1023.83	0.02%	99.68%
120.0	0.382	0.178	1024.008	0.02%	99.70%
125.0	0.397	0.180	1024.188	0.02%	99.72%
130.0	0.385	0.170	1024.358	0.02%	99.73%
135.0	0.411	0.161	1024.519	0.02%	99.75%
140.0	0.639	0.194	1024.713	0.02%	99.77%
145.0	0.979	0.270	1024.983	0.03%	99.80%
150.0	1.394	0.349	1025.332	0.03%	99.83%
155.0	1.828	0.408	1025.74	0.04%	99.87%
160.0	2.146	0.417	1026.157	0.04%	99.91%
165.0	2.422	0.376	1026.533	0.04%	99.95%
170.0	2.680	0.303	1026.836	0.03%	99.98%
175.0	2.834	0.197	1027.033	0.02%	100.00%
180.0	1.439	0.051	1027.084	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	387.30	37.71%	37.71%
0-40	582.52	56.72%	56.72%
0-60	879.45	85.63%	85.63%
0-90	1022.29	99.53%	99.53%
0-120	1024.01	99.70%	99.70%
0-180	1027.08	100.00%	100.00%
60-90	142.84	13.91%	13.91%
90-120	1.72	0.17%	0.17%
90-130	2.07	0.20%	0.20%
90-150	3.04	0.30%	0.30%
90-180	4.75	0.46%	0.46%
0-55.12	821.67	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	52.86
10-20	142.90
20-30	191.54
30-40	195.22
40-50	168.28
50-60	128.65
60-70	86.16
70-80	44.52
80-90	12.16
90-100	1.00
100-110	0.37
110-120	0.35
120-130	0.35
130-140	0.36
140-150	0.62
150-160	0.82
160-170	0.68
170-180	0.20



C0(Max): —————

C0/C180: —————

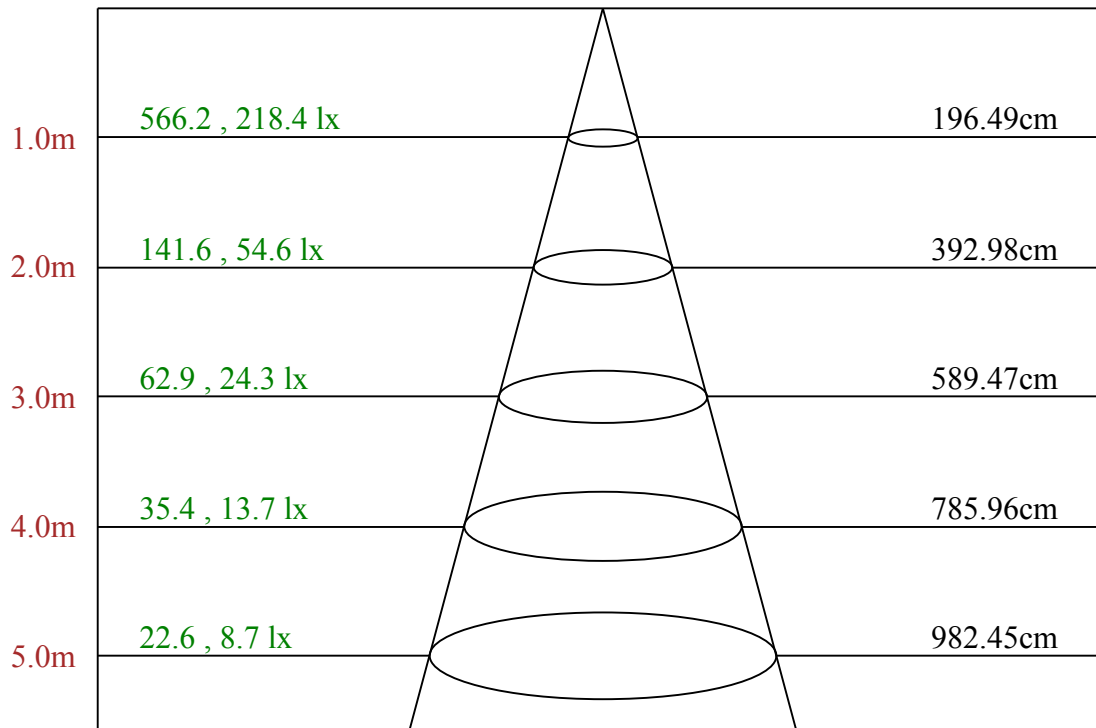
C90/C270: —————

Field angle(10%Imax):C0/180Left:74.3 Right:74.3

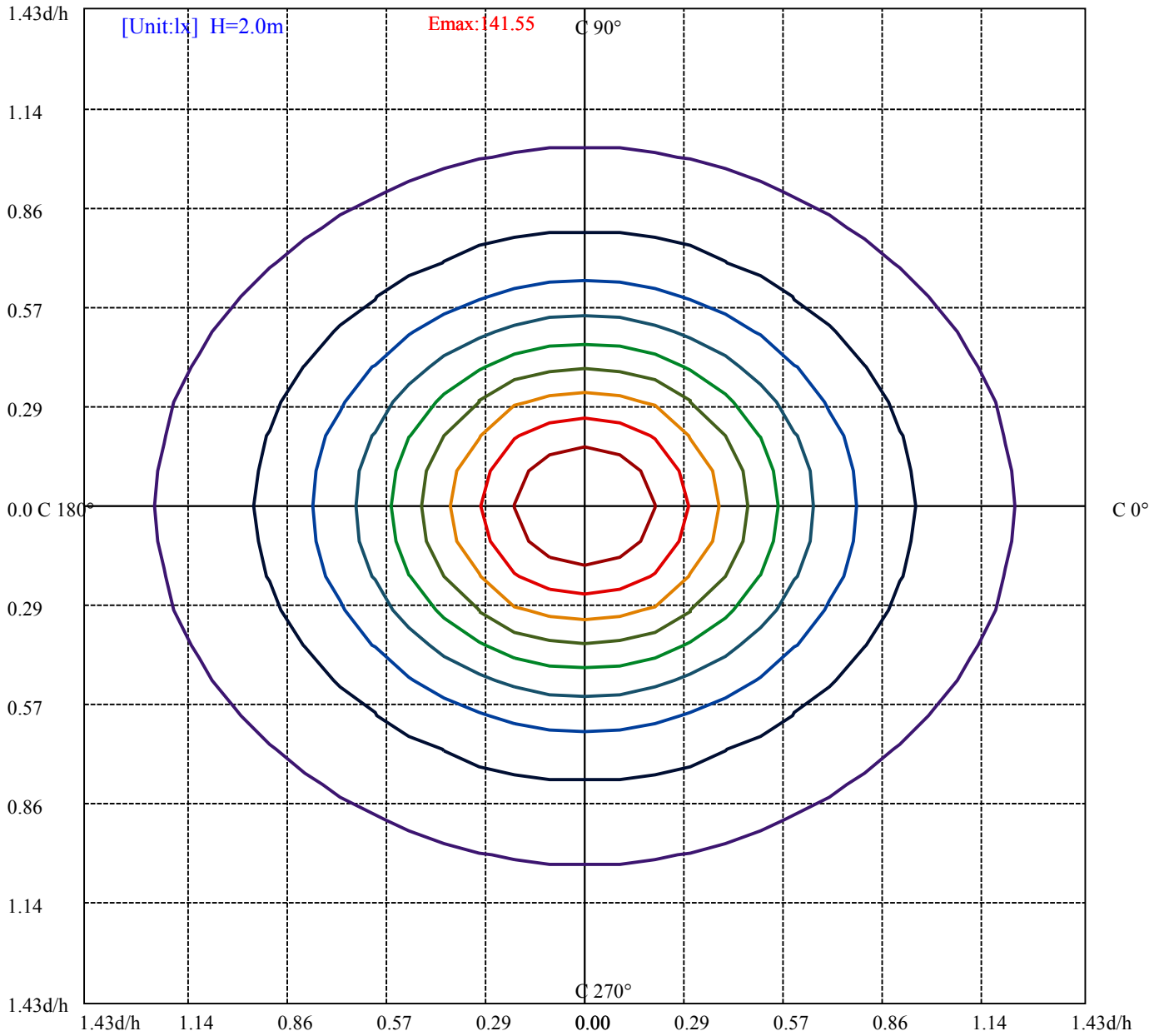
:C90/270Left:68.7 Right:68.7

Beam Angle(50%Imax):C0/180Left:44.2 Right:44.2

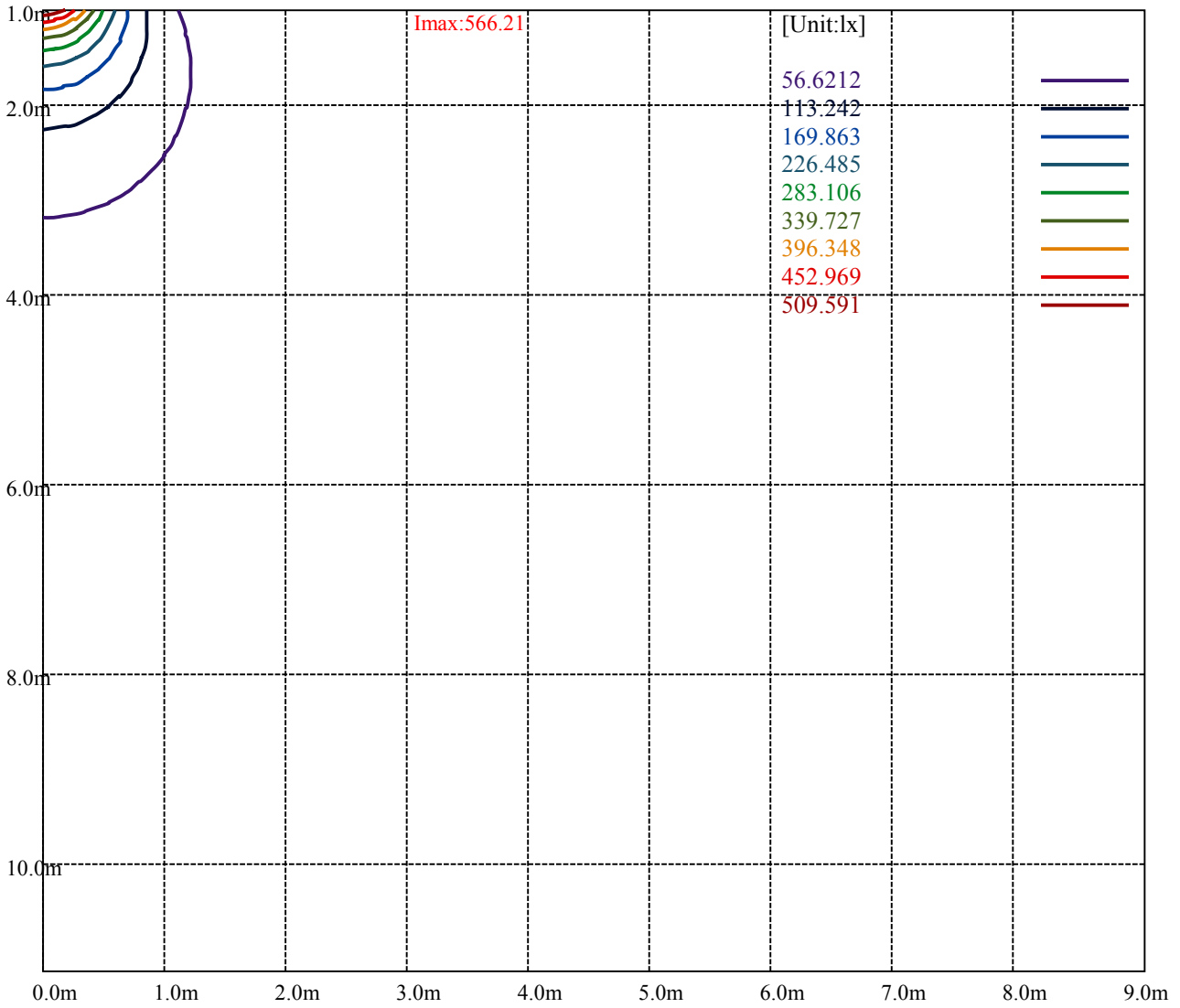
:C90/270Left:33.0 Right:33.0



Max , Ave      Beam angle of C0 plane 88.99



(10%Emax) 14.15528	—
(20%Emax) 28.3105	—
(30%Emax) 42.46575	—
(40%Emax) 56.62125	—
(50%Emax) 70.7765	—
(60%Emax) 84.93175	—
(70%Emax) 99.087	—
(80%Emax) 113.2422	—
(90%Emax) 127.3975	—



Luminance Table

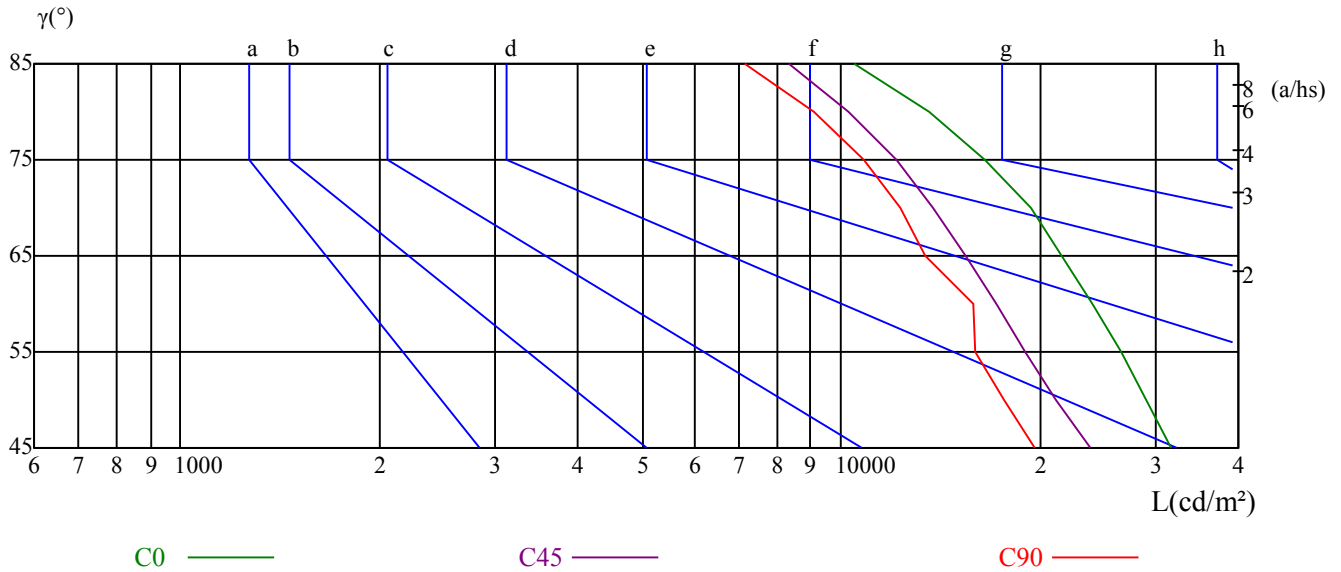
$\gamma$	45	50	55	60	65	70	75	80	85
C0	31576	29070	26563	24115	21660	19390	16512	13641	10478
C45	23916	21235	18968	17159	15443	13829	12131	10277	8338
C90	19606	17613	15980	15899	13424	12273	10826	9088	7168

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
21660	13424	15443	16512	10826	12131	10478	7168	8338

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



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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.06	1.02	0.99	1.04	1.00	0.97	0.99	0.97	0.94	0.95	0.93	0.91	0.92	0.90	0.88	0.86
2	0.94	0.88	0.83	0.92	0.87	0.82	0.89	0.84	0.80	0.85	0.82	0.78	0.82	0.79	0.76	0.74
3	0.84	0.77	0.71	0.83	0.76	0.70	0.80	0.74	0.69	0.77	0.72	0.68	0.74	0.70	0.67	0.65
4	0.76	0.68	0.62	0.74	0.67	0.61	0.72	0.66	0.60	0.70	0.64	0.60	0.67	0.63	0.59	0.57
5	0.69	0.60	0.54	0.67	0.60	0.54	0.65	0.59	0.53	0.63	0.58	0.53	0.62	0.56	0.52	0.50
6	0.62	0.54	0.48	0.62	0.54	0.48	0.60	0.53	0.48	0.58	0.52	0.47	0.57	0.51	0.47	0.45
7	0.57	0.49	0.44	0.56	0.49	0.43	0.55	0.48	0.43	0.53	0.47	0.43	0.52	0.47	0.42	0.41
8	0.53	0.45	0.39	0.52	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.39	0.37
9	0.49	0.41	0.36	0.48	0.41	0.36	0.47	0.40	0.36	0.46	0.40	0.36	0.45	0.39	0.35	0.34
10	0.45	0.38	0.33	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.33	0.42	0.37	0.33	0.31

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Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	566.21	562.69	551.32	528.85	498.98	460.56	419.06	377.12	330.77
15.0	566.21	563.82	551.10	527.32	499.38	458.36	417.96	372.79	325.49
30.0	566.21	562.48	549.78	525.88	493.63	452.84	406.47	358.49	307.58
45.0	566.21	562.37	549.06	525.20	487.85	442.91	389.66	332.38	278.06
60.0	566.21	564.51	550.06	521.79	481.22	428.45	368.14	307.92	256.94
75.0	566.21	563.33	548.50	519.63	475.83	420.43	356.76	296.96	243.36
90.0	566.21	565.67	548.53	520.19	474.63	414.89	350.65	290.82	240.11
105.0	566.21	563.06	548.01	518.99	476.36	415.98	355.34	295.41	242.42
120.0	566.21	565.58	552.03	524.74	483.99	430.24	370.16	312.88	256.32
135.0	566.21	565.31	551.72	526.62	492.02	448.53	393.54	339.27	281.29
150.0	566.21	563.77	552.10	530.47	469.40	460.08	413.94	362.64	313.33
165.0	566.21	563.77	552.99	534.34	505.45	468.51	426.67	380.67	329.78
180.0	566.21	559.78	543.13	520.39	488.67	450.78	406.02	361.88	316.68
195.0	566.21	560.20	543.14	517.77	483.56	445.46	395.77	352.46	303.48
210.0	566.21	558.57	540.09	508.11	469.19	425.13	373.51	321.09	270.00
225.0	566.21	556.38	534.31	497.77	449.07	392.96	339.71	285.21	235.44
240.0	566.21	553.92	528.07	485.80	428.27	366.62	308.55	255.06	207.76
255.0	566.21	553.44	521.43	470.61	409.28	345.70	289.67	236.88	191.11
270.0	566.21	553.58	520.73	468.85	404.88	341.80	282.79	229.82	185.52
285.0	566.21	552.15	520.52	468.97	410.13	346.32	284.41	234.76	223.13
300.0	566.21	556.09	526.82	481.92	469.36	362.48	303.12	249.00	201.84
315.0	566.21	556.52	532.33	492.74	441.83	384.48	326.86	275.68	223.86
330.0	566.21	556.35	534.36	502.97	462.16	410.32	359.74	306.72	257.05
345.0	566.21	557.61	539.50	511.61	473.85	431.38	383.12	338.21	292.03
360.0	566.21	562.69	551.32	528.85	498.98	460.56	419.06	377.12	330.77
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	283.90	237.82	194.11	154.11	117.72	86.97	56.22	32.69	13.04
15.0	277.85	232.32	191.30	151.79	116.51	84.95	56.93	32.71	14.14
30.0	258.27	212.34	171.03	134.51	104.39	75.07	51.71	30.21	13.42
45.0	228.92	186.03	148.86	118.93	91.58	67.82	46.82	29.04	12.87
60.0	206.60	168.72	135.07	107.70	84.45	63.63	45.50	28.18	13.37
75.0	197.13	159.00	128.42	104.86	83.37	63.67	45.24	29.14	13.40
90.0	192.65	157.19	127.86	103.68	82.74	63.43	45.84	28.60	13.44
105.0	196.73	159.42	130.49	104.45	84.17	64.34	47.13	28.75	14.51
120.0	211.14	170.58	137.24	109.95	86.73	66.86	47.79	30.09	14.82
135.0	231.56	187.89	150.93	121.12	92.86	70.94	49.65	30.89	14.95
150.0	262.30	214.98	173.18	136.89	105.50	77.99	55.10	32.57	16.01
165.0	284.69	238.15	194.41	154.30	120.61	88.92	60.76	36.58	16.75
180.0	267.60	223.72	182.22	143.71	108.38	76.83	49.34	25.82	9.52
195.0	255.75	210.75	169.91	134.11	99.10	70.90	43.76	22.98	7.87
210.0	224.96	180.62	145.17	112.48	83.87	58.64	36.78	18.30	6.04
225.0	191.48	153.41	121.61	94.26	71.66	49.14	31.27	15.55	4.91
240.0	167.47	135.88	108.32	83.46	63.54	44.60	27.19	13.01	3.86
255.0	154.14	124.92	100.09	78.42	59.71	40.56	25.09	21.04	2.61
270.0	149.79	122.45	98.53	92.67	57.39	40.24	23.37	10.38	1.99
285.0	153.20	124.00	99.40	77.95	58.31	40.10	23.07	10.45	2.25
300.0	162.45	128.93	103.72	80.77	60.17	42.28	25.48	11.65	2.71
315.0	183.45	146.94	116.05	89.51	66.31	45.75	27.36	12.68	3.17
330.0	211.36	170.64	136.44	103.87	77.81	53.65	31.58	15.29	4.34
345.0	242.68	198.58	160.27	124.42	92.45	63.66	39.75	18.20	5.52
360.0	283.90	237.82	194.11	154.11	117.72	86.97	56.22	32.69	13.04

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Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	2.47	0.09	0.00	0.00	0.00	0.00	0.09	0.26	0.44
15.0	3.01	0.18	0.00	0.00	0.00	0.00	0.09	0.27	0.44
30.0	3.20	0.27	0.09	0.00	0.00	0.00	0.00	0.27	0.36
45.0	3.66	0.45	0.00	0.00	0.00	0.00	0.00	0.18	0.36
60.0	3.41	0.54	0.09	0.00	0.00	0.00	0.00	0.09	0.27
75.0	3.42	0.36	0.00	0.00	0.00	0.00	0.09	0.09	0.18
90.0	2.71	0.09	0.00	0.00	0.00	0.00	0.00	0.09	0.18
105.0	3.24	0.27	0.00	0.00	0.00	0.00	0.00	0.09	0.18
120.0	4.07	0.54	0.09	0.00	0.00	0.00	0.00	0.09	0.27
135.0	4.71	0.63	0.09	0.00	0.00	0.00	0.09	0.09	0.27
150.0	4.70	0.45	0.09	0.00	0.00	0.00	0.09	0.18	0.27
165.0	4.71	0.18	0.00	0.00	0.00	0.00	0.09	0.27	0.36
180.0	1.50	0.26	0.26	0.26	0.26	0.26	0.35	0.44	0.35
195.0	1.33	0.44	0.44	0.44	0.35	0.44	0.44	0.44	0.27
210.0	1.07	0.53	0.62	0.62	0.62	0.44	0.44	0.36	0.36
225.0	0.89	0.63	0.63	0.63	0.63	0.71	0.80	0.45	0.36
240.0	0.99	0.81	0.81	0.81	0.81	0.81	0.81	0.63	0.45
255.0	0.99	0.81	0.81	0.81	0.81	0.81	0.90	0.81	0.54
270.0	1.17	1.08	1.08	1.17	1.17	1.17	1.17	1.17	0.81
285.0	1.17	0.99	0.99	1.08	1.08	1.17	1.17	1.08	0.72
300.0	0.99	0.81	0.81	0.81	0.81	0.90	0.99	0.81	0.54
315.0	0.91	0.54	0.63	0.63	0.63	0.72	0.63	0.45	0.45
330.0	0.72	0.54	0.54	0.54	0.54	0.45	0.45	0.45	0.45
345.0	0.63	0.45	0.45	0.45	0.36	0.45	0.45	0.45	0.36
360.0	2.47	0.09	0.00	0.00	0.00	0.00	0.09	0.26	0.44
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.53	0.97	1.32	1.94	2.29	2.47	2.82	2.91	2.91
15.0	0.53	0.88	1.33	1.77	2.21	2.48	2.74	2.74	2.92
30.0	0.44	0.80	1.33	1.69	2.22	2.40	2.67	2.84	2.84
45.0	0.36	0.80	1.16	1.61	2.14	2.41	2.68	2.77	2.86
60.0	0.27	0.72	1.17	1.62	2.06	2.33	2.60	2.78	2.87
75.0	0.27	0.54	0.99	1.53	2.07	2.34	2.70	2.79	2.88
90.0	0.27	0.63	0.99	1.44	1.99	2.26	2.62	2.80	2.89
105.0	0.27	0.63	0.99	1.35	1.98	2.25	2.70	2.79	2.79
120.0	0.27	0.63	1.08	1.45	1.99	2.26	2.62	2.80	2.89
135.0	0.27	0.63	1.09	1.45	1.99	2.26	2.63	2.81	2.90
150.0	0.36	0.72	1.18	1.54	1.99	2.35	2.62	2.80	2.90
165.0	0.36	0.81	1.18	1.63	2.08	2.44	2.72	2.81	2.99
180.0	0.35	0.44	0.70	1.15	1.50	1.76	2.11	2.56	2.73
195.0	0.44	0.44	0.80	1.15	1.50	1.59	2.12	2.48	2.74
210.0	0.36	0.36	0.80	1.07	1.51	1.95	2.22	2.58	2.75
225.0	0.36	0.54	0.71	1.16	1.52	1.97	2.14	2.59	2.77
240.0	0.45	0.45	0.81	1.17	1.53	2.06	2.06	2.51	2.78
255.0	0.45	0.54	0.81	1.17	1.53	1.89	2.16	2.61	2.79
270.0	0.72	0.81	0.99	1.44	1.71	1.99	2.17	2.62	2.80
285.0	0.63	0.72	0.90	1.35	1.71	1.98	2.25	2.61	2.79
300.0	0.54	0.63	0.81	1.26	1.63	1.99	2.26	2.53	2.80
315.0	0.45	0.54	0.82	1.18	1.63	1.99	2.17	2.45	2.81
330.0	0.45	0.54	0.72	1.18	1.54	2.08	2.17	2.53	2.80
345.0	0.45	0.54	0.81	1.18	1.54	1.99	2.17	2.63	2.81
360.0	0.53	0.97	1.32	1.94	2.29	2.47	2.82	2.91	2.91

Intensity data(cd)

C/γ(°)	180.0
0.0	2.73
15.0	2.92
30.0	2.93
45.0	2.86
60.0	2.87
75.0	2.88
90.0	2.89
105.0	2.88
120.0	2.89
135.0	2.90
150.0	2.90
165.0	2.90
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	2.73