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Sedna Lighting

LumCAT: SDHORIZ-SI

Luminaire:LED Horizon Linear Luminaire Single fitting

Report No:ABR2015052502

Voltage(V): 229.8600

Test No:ABT2015052502

Current(A): 0.1090

LampCAT:

Power (W): 23.0400

Lamp flux(lm):1867.06

PF: 0.9210

Number of Lamps: 1

Ballast type:

Length(mm): 1210

Width(mm): 70

Phm Type: C

Height(mm): 40

Photometric Results

Lumens(lm): 1867.06

Lumens(lm)/Power(W): 81.04

Central intensity(cd): 692.973

Maximum intensity(cd): 695.193

Angle of maximum intensity: C=180.0 γ =10.0

Beam Angle(50%Imax): [C0/180]Total=107.2

[C90/270]Total=112.7

Field angle(10%Imax): [C0/180]Total=155.6

[C90/270]Total=161.6

Maximum s/h(1/2): C0_180=1.23 C90_270=1.26

Maximum s/h(1/4): C0_180=1.36 C90_270=1.38

Up flux rate of LUM(%): 1.21%

Down flux rate of LUM(%): 98.79%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.711%

Equipment:
Temperature(°C): 25.0

Date: 2015-5-25
Humidity(%): 60.0%

Operator: Ang
Distance(m): 16.66

Sedna Lighting

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	689.071	.000	.000	.000%	.000%	.000%
5.0	686.347	16.443	16.443	.881%	.881%	.881%
10.0	675.576	48.720	65.163	2.609%	3.490%	3.490%
15.0	654.623	78.907	144.070	4.226%	7.716%	7.716%
20.0	626.611	105.592	249.661	5.655%	13.372%	13.372%
25.0	594.852	128.109	377.770	6.862%	20.233%	20.233%
30.0	561.410	146.326	524.096	7.837%	28.071%	28.071%
35.0	524.240	159.870	683.966	8.563%	36.633%	36.633%
40.0	483.097	168.067	852.032	9.002%	45.635%	45.635%
45.0	436.994	170.362	1022.394	9.125%	54.760%	54.760%
50.0	388.202	166.743	1189.137	8.931%	63.690%	63.690%
55.0	335.160	157.283	1346.420	8.424%	72.114%	72.114%
60.0	278.476	141.840	1488.260	7.597%	79.711%	79.711%
65.0	220.058	121.195	1609.455	6.491%	86.203%	86.203%
70.0	160.807	96.437	1705.892	5.165%	91.368%	91.368%
75.0	104.314	69.298	1775.191	3.712%	95.079%	95.079%
80.0	55.661	42.805	1817.995	2.293%	97.372%	97.372%
85.0	19.531	20.431	1838.427	1.094%	98.466%	98.466%
90.0	2.307	5.979	1844.406	.320%	98.787%	98.787%
95.0	.555	.784	1845.189	.042%	98.828%	98.828%
100.0	1.405	.533	1845.722	.029%	98.857%	98.857%
105.0	2.775	1.119	1846.840	.060%	98.917%	98.917%
110.0	4.076	1.791	1848.631	.096%	99.013%	99.013%
115.0	4.701	2.222	1850.854	.119%	99.132%	99.132%
120.0	4.891	2.332	1853.185	.125%	99.257%	99.257%
125.0	4.857	2.253	1855.438	.121%	99.377%	99.377%
130.0	4.753	2.089	1857.528	.112%	99.489%	99.489%
135.0	4.527	1.875	1859.403	.100%	99.590%	99.590%
140.0	4.354	1.644	1861.047	.088%	99.678%	99.678%
145.0	4.145	1.418	1862.465	.076%	99.754%	99.754%
150.0	3.937	1.190	1863.656	.064%	99.818%	99.818%
155.0	4.128	1.021	1864.676	.055%	99.872%	99.872%
160.0	4.267	.880	1865.557	.047%	99.919%	99.919%
165.0	3.920	.675	1866.231	.036%	99.955%	99.955%
170.0	3.816	.459	1866.690	.025%	99.980%	99.980%
175.0	3.937	.277	1866.968	.015%	99.995%	99.995%
180.0	3.989	.095	1867.062	.005%	100.000%	100.000%

Equipment:
Temperature($^{\circ}\text{C}$): 25.0

Date: 2015-5-25
Humidity(%): 60.0%

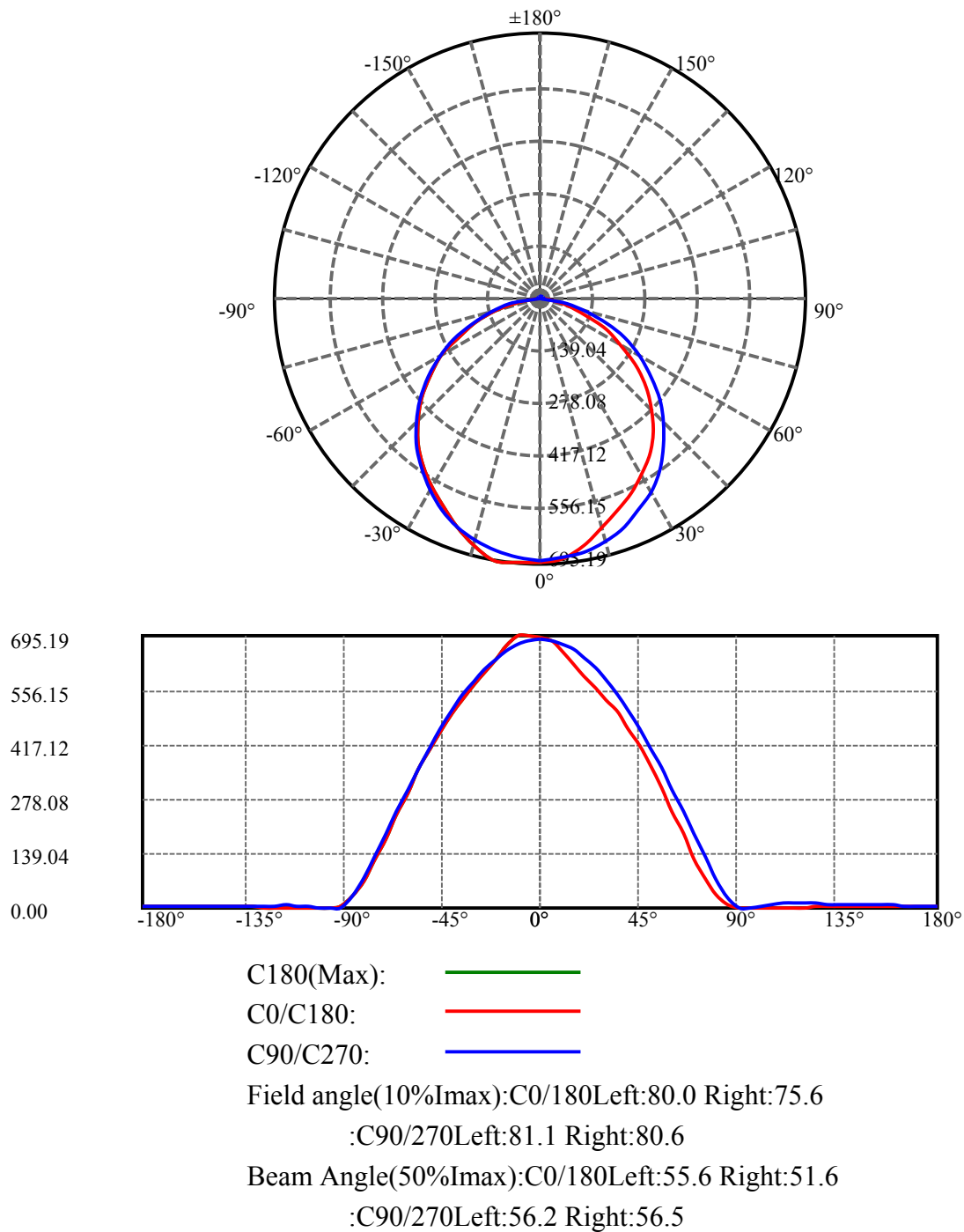
Operator: Ang
Distance(m): 16.66

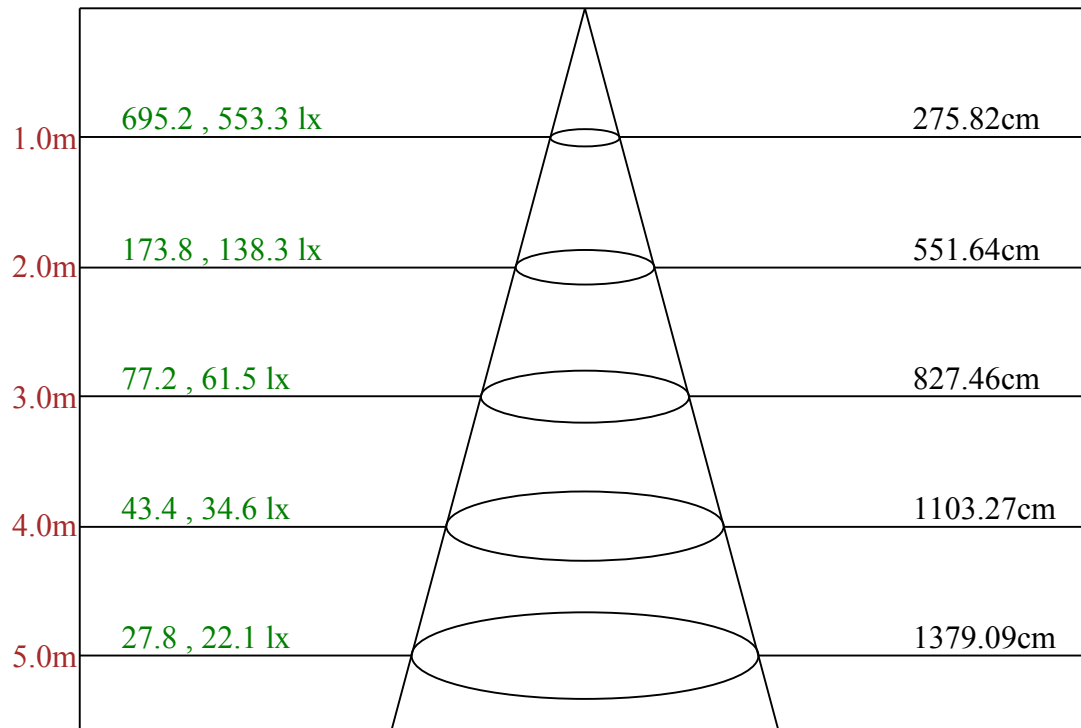
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	524.10	28.07%
0-40	852.03	45.63%
0-60	1488.26	79.71%
0-90	1844.41	98.79%
0-120	1853.19	99.26%
0-180	1867.06	100.00%
60-90	497.99	26.67%
90-120	14.76	0.79%
90-130	19.10	1.02%
90-150	25.23	1.35%
90-180	28.54	1.53%
0-60.22	1493.65	80.00%

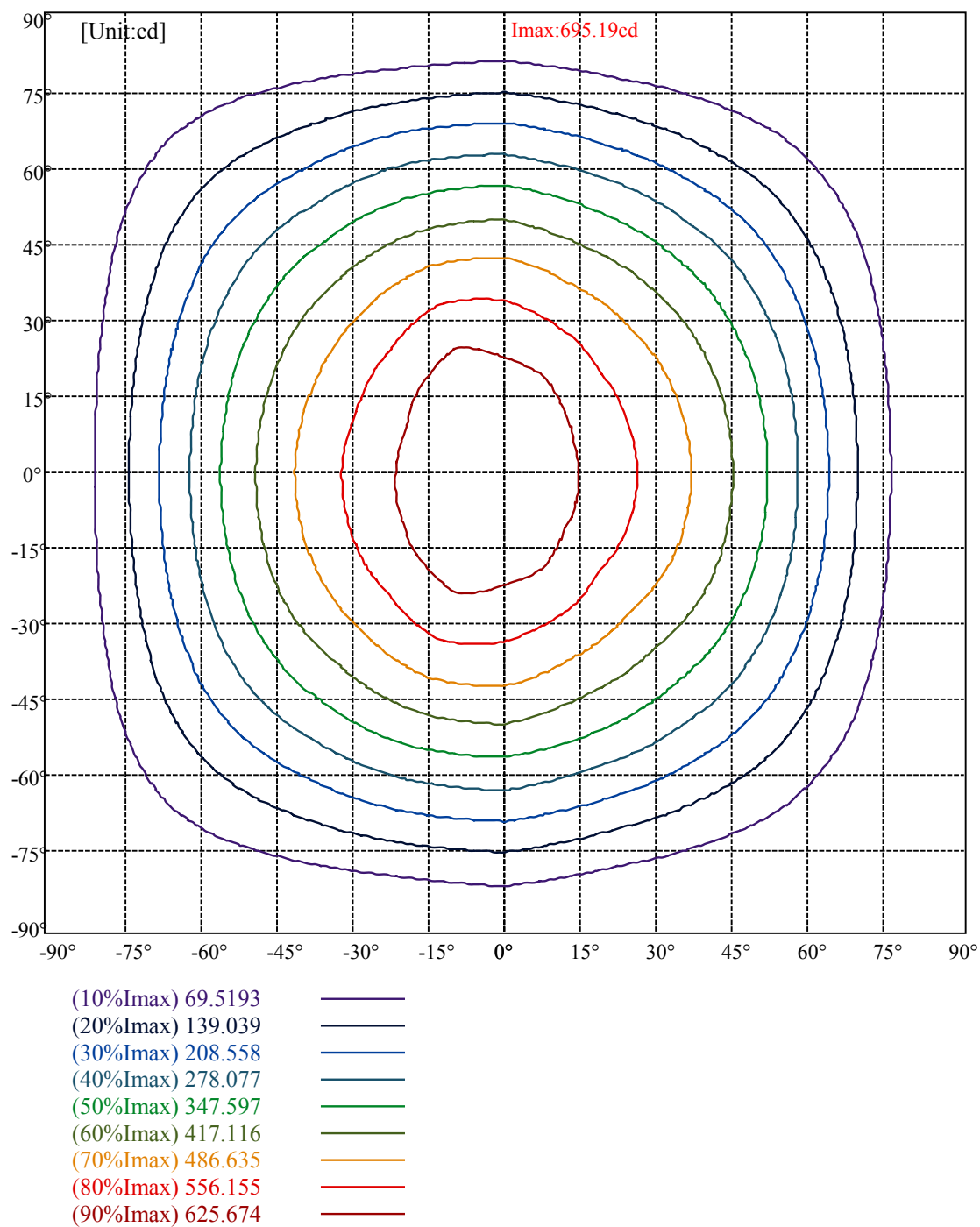
ZONAL LUMEN SUMMARY

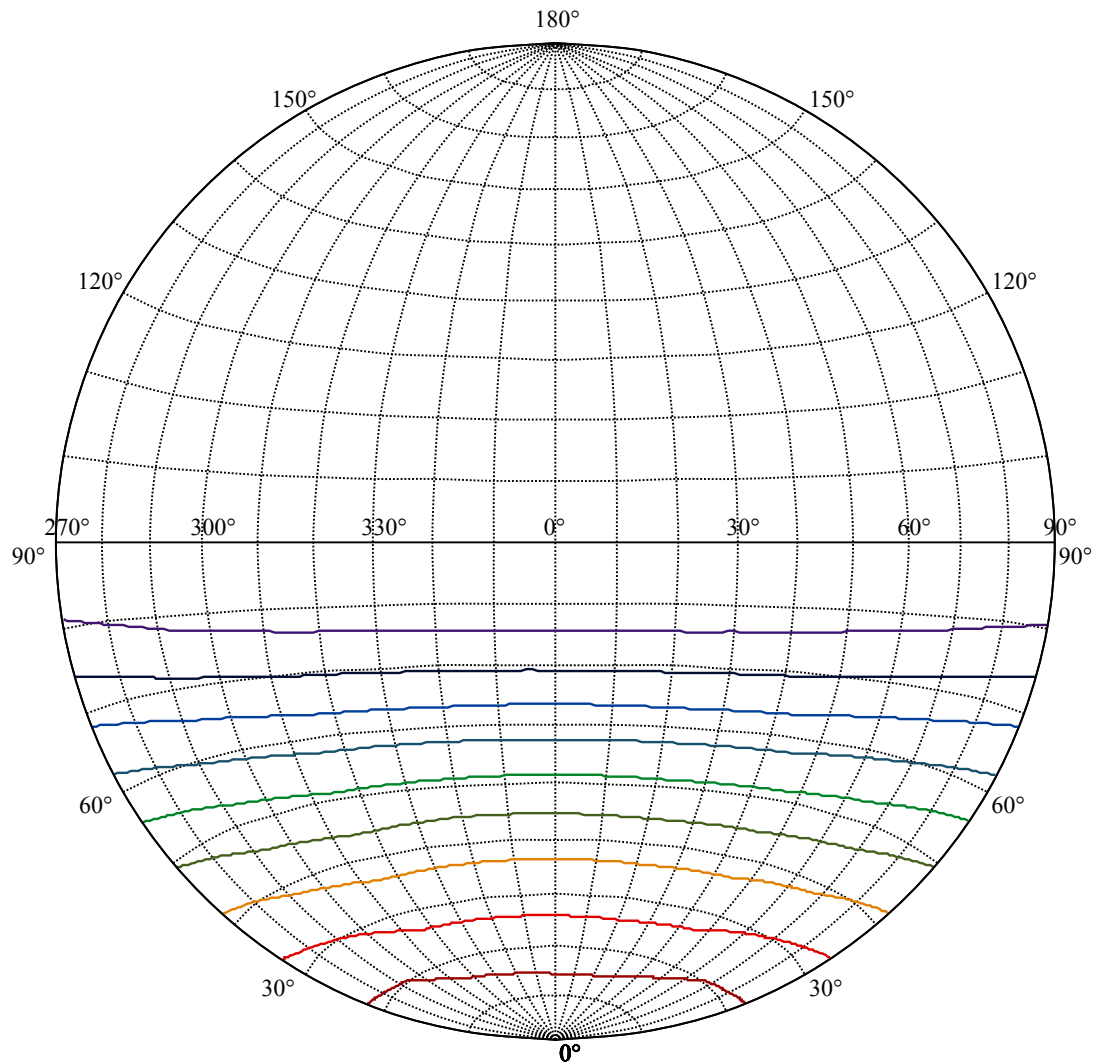
0-10	65.16
10-20	184.50
20-30	274.43
30-40	327.94
40-50	337.11
50-60	299.12
60-70	217.63
70-80	112.10
80-90	26.41
90-100	1.32
100-110	2.91
110-120	4.55
120-130	4.34
130-140	3.52
140-150	2.61
150-160	1.90
160-170	1.13
170-180	0.28





Max , Ave Beam angle of C180plane107.91





House

[Unit:cd]

Road

Imax:695.19

(10%Imax) 69.5193

(20%Imax) 139.039

(30%Imax) 208.558

(40%Imax) 278.077

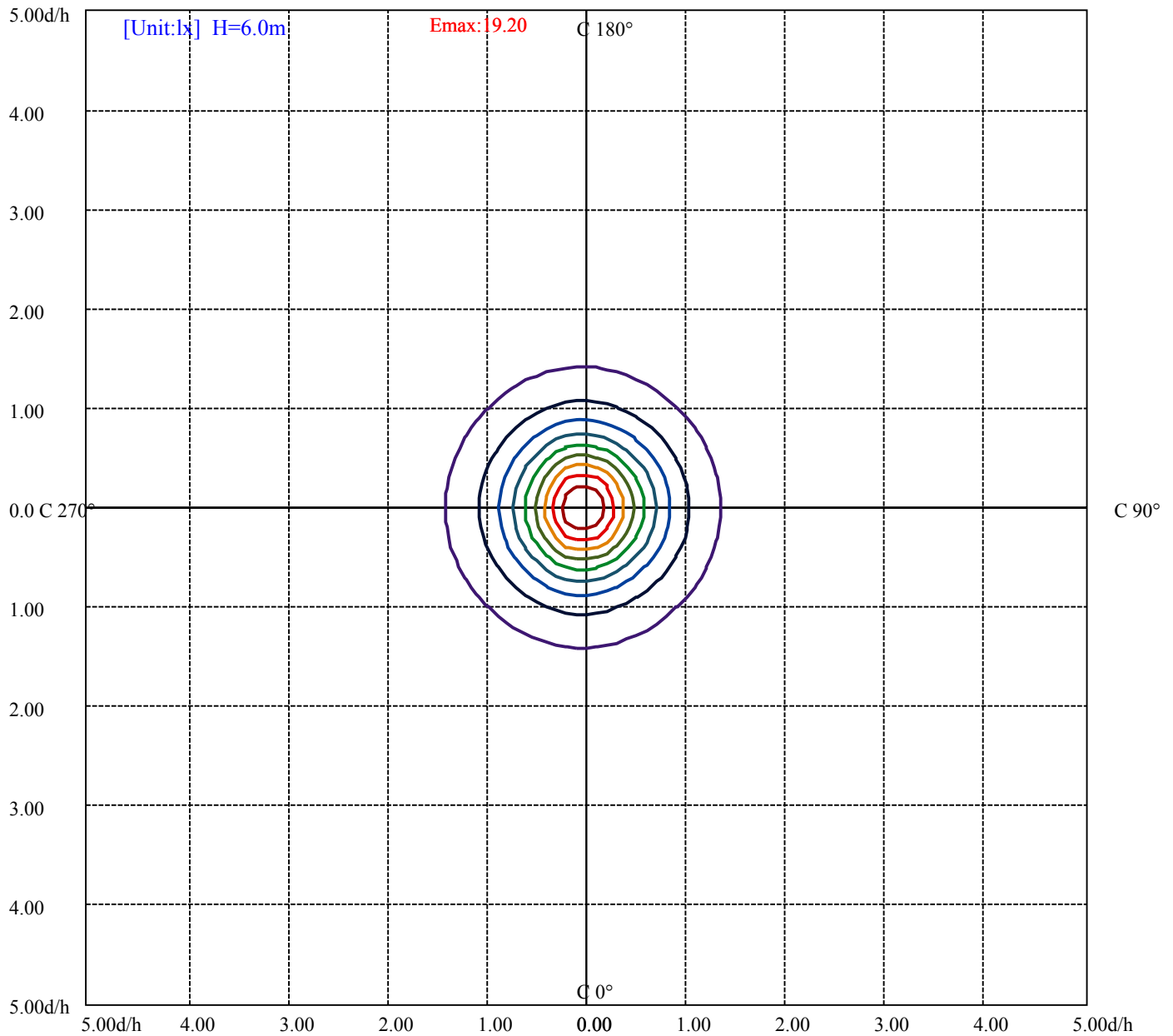
(50%Imax) 347.597

(60%Imax) 417.116

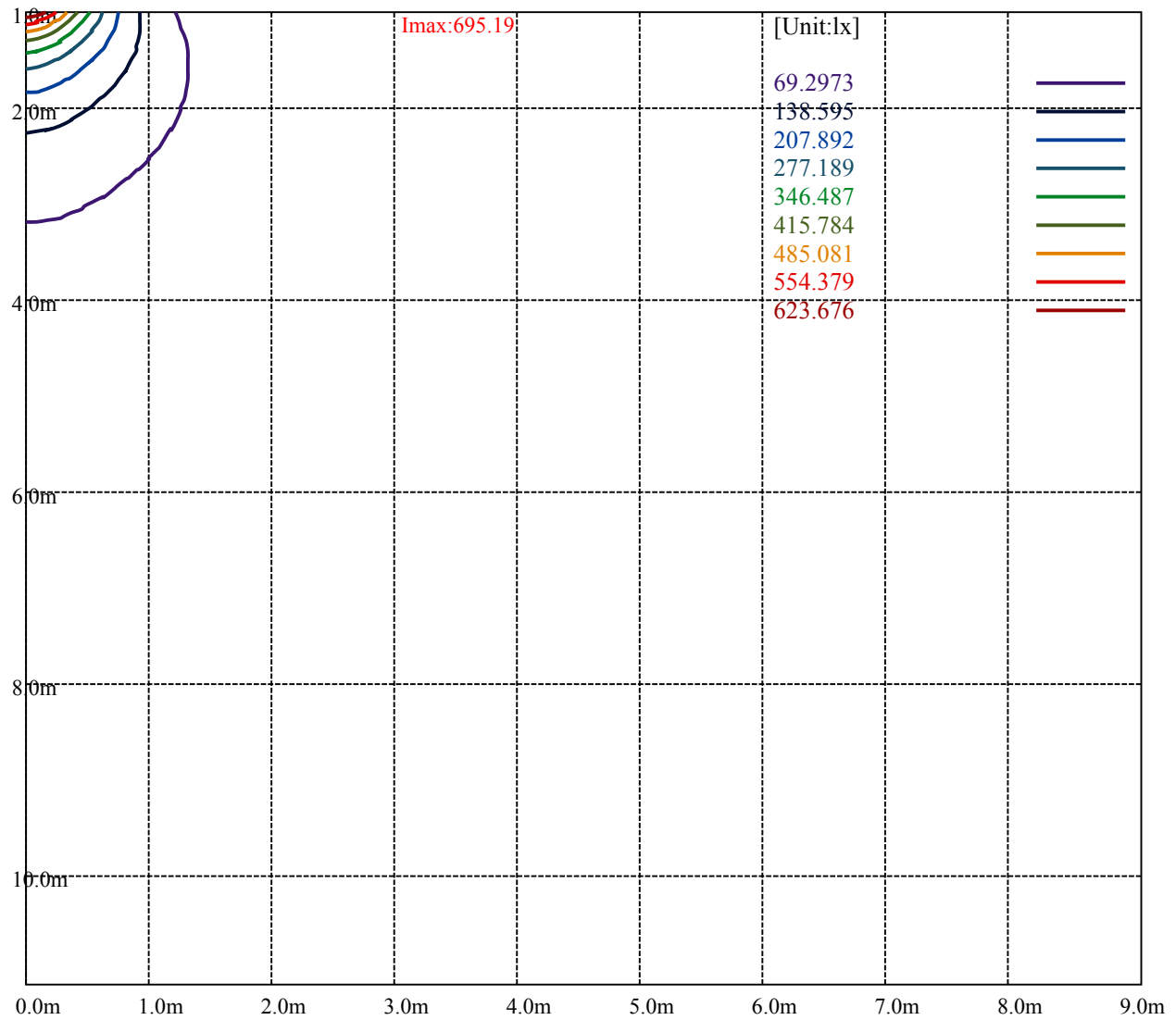
(70%Imax) 486.635

(80%Imax) 556.155

(90%Imax) 625.674



(10%Emax) 1.919528	—
(20%Emax) 3.839055	—
(30%Emax) 5.758584	—
(40%Emax) 7.678111	—
(50%Emax) 9.597639	—
(60%Emax) 11.51717	—
(70%Emax) 13.4367	—
(80%Emax) 15.35622	—
(90%Emax) 17.27575	—



Luminance Table

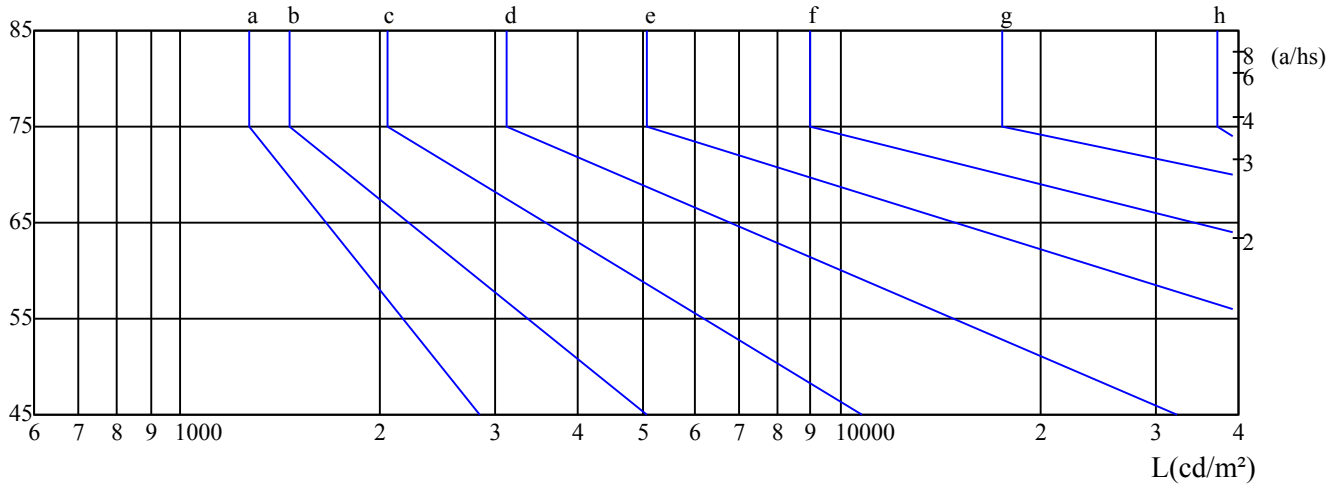
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

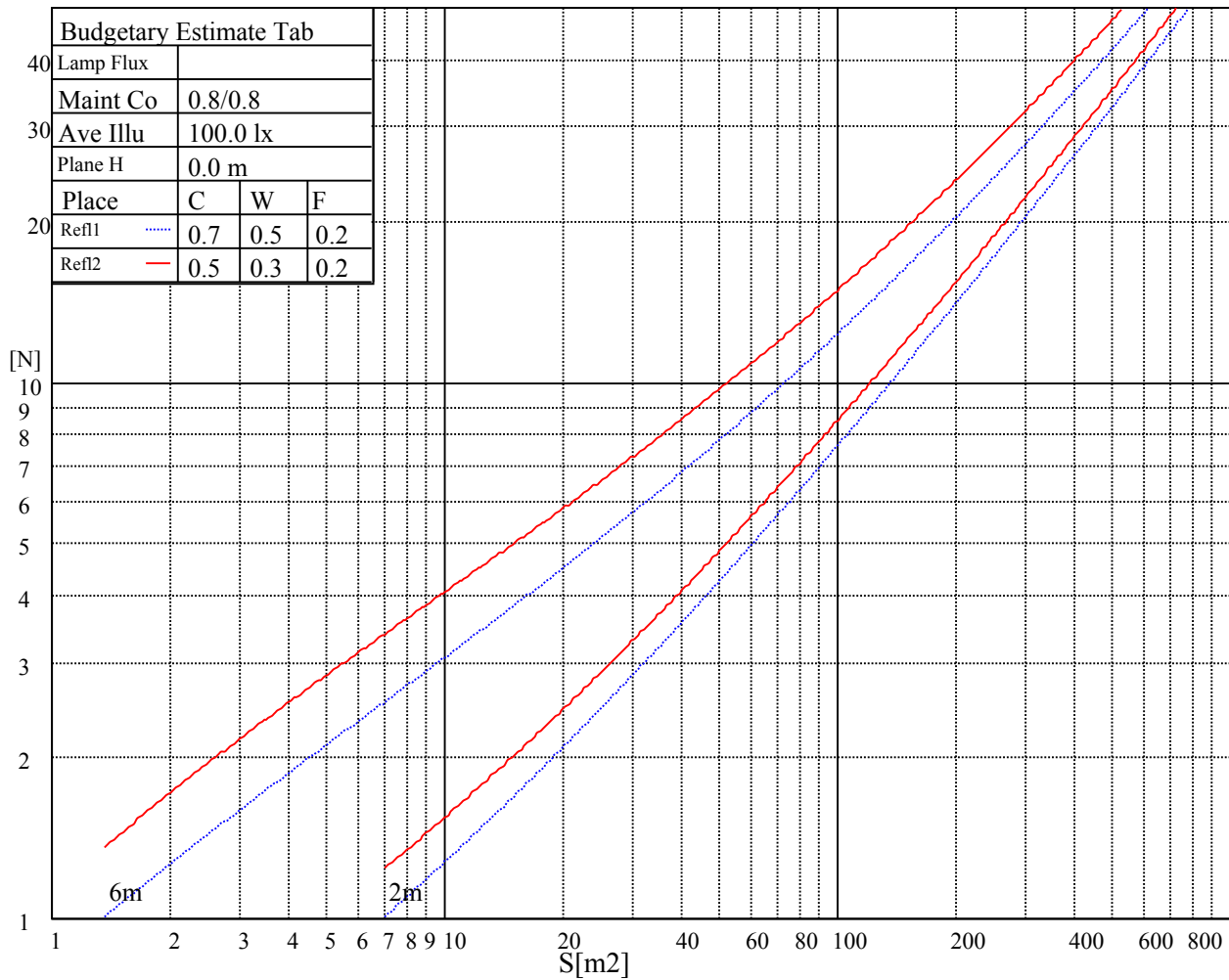
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

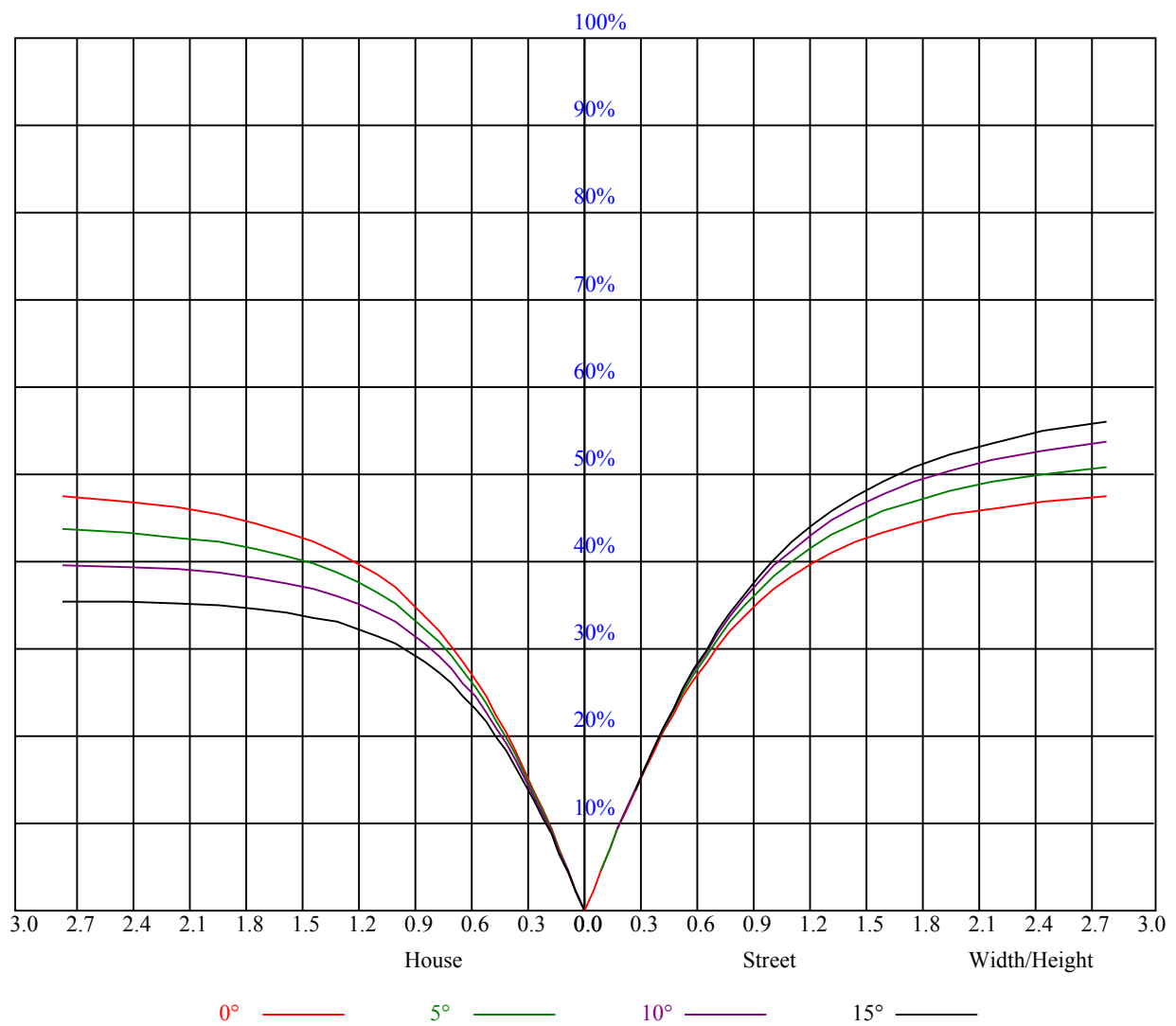
C0 ———

C45 ———

C90 ———



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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.04	1.00	0.96	1.02	0.98	0.95	0.97	0.94	0.91	0.93	0.91	0.88	0.89	0.87	0.86	0.83
2	0.91	0.84	0.79	0.89	0.83	0.78	0.85	0.80	0.76	0.82	0.78	0.74	0.79	0.75	0.72	0.70
3	0.80	0.72	0.66	0.78	0.71	0.65	0.75	0.69	0.64	0.72	0.67	0.62	0.70	0.65	0.61	0.59
4	0.71	0.62	0.56	0.70	0.62	0.55	0.67	0.60	0.54	0.65	0.58	0.54	0.62	0.57	0.53	0.51
5	0.64	0.55	0.48	0.62	0.54	0.48	0.60	0.53	0.47	0.58	0.52	0.46	0.56	0.50	0.46	0.44
6	0.57	0.48	0.42	0.56	0.48	0.42	0.54	0.47	0.41	0.52	0.46	0.41	0.51	0.45	0.40	0.38
7	0.52	0.43	0.37	0.51	0.43	0.37	0.49	0.42	0.37	0.48	0.41	0.36	0.46	0.40	0.36	0.34
8	0.47	0.39	0.33	0.47	0.39	0.33	0.45	0.38	0.33	0.44	0.37	0.32	0.43	0.37	0.32	0.30
9	0.43	0.35	0.30	0.43	0.35	0.30	0.42	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
10	0.40	0.32	0.27	0.40	0.32	0.27	0.39	0.32	0.27	0.37	0.31	0.27	0.37	0.31	0.26	0.25



Sedna Lighting

Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	692.97	684.09	655.23	621.93	589.73	561.98	532.29	499.82	459.02
22.5	690.75	682.98	655.79	623.32	591.68	561.15	531.18	496.76	458.19
45.0	691.03	686.59	666.33	636.91	603.89	567.81	534.51	499.26	460.13
67.5	687.70	685.20	673.82	653.84	627.76	593.34	556.43	516.75	473.18
90.0	684.65	681.32	672.71	658.56	638.58	612.21	581.69	545.05	503.98
112.5	689.92	687.42	681.87	671.88	656.06	632.47	599.17	555.32	510.64
135.0	687.15	687.15	686.59	676.88	649.12	611.94	573.08	534.51	493.99
157.5	689.37	689.92	690.20	666.05	631.36	595.01	563.65	528.40	489.83
180.0	691.03	694.36	695.19	669.11	633.86	600.28	568.92	532.84	495.38
202.5	690.75	692.14	694.92	674.66	639.41	603.89	570.59	534.79	493.16
225.0	691.03	689.92	688.81	680.21	652.18	613.88	575.03	536.73	493.43
247.5	687.70	685.20	678.82	667.72	652.46	628.87	596.12	555.60	510.64
270.0	684.65	681.32	672.16	657.17	636.36	610.83	578.36	543.11	503.70
292.5	689.92	686.87	676.04	654.40	627.48	594.18	555.88	513.97	472.07
315.0	687.15	682.98	662.72	634.69	601.95	566.15	532.29	495.93	454.30
337.5	689.37	684.09	658.01	626.65	593.90	563.65	533.40	498.99	457.91
360.0	692.97	684.09	655.23	621.93	589.73	561.98	532.29	499.82	459.02
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	414.62	364.94	306.38	247.83	190.38	126.83	74.10	32.47	8.05
22.5	411.29	361.33	306.66	248.38	185.94	127.38	74.65	33.58	8.33
45.0	414.34	365.77	308.88	251.16	192.32	133.77	81.04	37.74	9.71
67.5	427.38	379.37	329.42	272.25	215.36	156.80	99.63	48.84	13.04
90.0	458.19	410.46	359.11	301.39	245.61	188.44	129.88	73.82	25.53
112.5	458.74	409.35	356.34	301.11	243.11	181.78	118.50	64.11	23.59
135.0	449.31	397.41	344.68	287.79	227.29	167.90	111.29	63.28	25.81
157.5	444.87	399.35	348.01	294.17	233.12	175.12	118.50	68.83	28.58
180.0	450.70	404.07	353.29	294.73	236.73	178.72	119.33	69.66	29.69
202.5	450.70	404.63	350.79	296.67	237.56	177.61	119.33	68.83	28.86
225.0	448.75	397.13	345.52	288.62	230.07	170.40	114.62	62.72	26.09
247.5	459.30	409.07	354.40	299.72	241.17	180.94	121.00	66.05	23.87
270.0	457.08	409.90	355.51	302.22	248.10	187.88	131.55	79.09	29.97
292.5	423.78	377.15	327.20	269.47	213.69	153.75	98.24	50.23	13.32
315.0	408.51	359.39	308.60	250.33	192.88	135.71	81.87	37.47	9.99
337.5	414.34	361.89	307.77	249.77	187.61	129.88	75.49	33.86	8.05
360.0	414.62	364.94	306.38	247.83	190.38	126.83	74.10	32.47	8.05
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.28	0.28	0.83	0.83	1.39	1.39	1.67	2.22	2.50
22.5	0.83	0.56	1.11	1.39	1.67	1.94	2.22	2.50	3.05
45.0	1.11	0.83	1.94	3.89	5.27	5.55	5.55	5.27	5.27
67.5	1.67	1.11	3.89	6.66	9.71	10.27	10.27	9.71	8.60
90.0	1.39	0.83	4.44	8.33	10.82	11.93	11.66	10.82	9.71
112.5	2.78	0.56	2.78	5.83	8.60	9.99	10.27	9.99	8.88
135.0	3.61	0.83	0.83	2.78	4.16	5.55	5.83	5.83	5.55
157.5	5.00	0.56	0.56	1.11	1.39	1.94	1.94	2.50	2.78
180.0	5.55	0.56	0.28	0.56	0.83	1.39	1.94	1.94	2.22
202.5	5.27	0.56	0.28	0.56	0.83	1.11	1.67	1.94	2.22
225.0	3.61	0.56	0.56	1.11	2.22	2.78	3.33	3.33	3.61
247.5	2.50	0.28	0.83	2.22	4.16	5.55	5.83	5.55	5.55
270.0	0.83	0.56	1.67	4.16	6.11	6.66	6.11	5.83	5.27
292.5	1.11	0.28	1.39	3.05	4.44	5.27	5.27	5.27	5.27
315.0	0.83	0.28	0.56	1.39	2.50	2.78	3.05	3.05	3.61
337.5	0.56	0.28	0.56	0.56	1.11	1.11	1.67	1.94	1.94
360.0	0.28	0.28	0.83	0.83	1.39	1.39	1.67	2.22	2.50

Equipment:
Temperature(°C): 25.0

Date: 2015-5-25
Humidity(%): 60.0%

Operator: Ang
Distance(m): 16.66

Sedna Lighting

Intensity data(cd)									Page: 15 Total:15
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	2.78	2.78	3.05	3.33	3.61	3.61	3.89	4.16	3.89
22.5	3.61	3.61	3.89	3.89	3.89	4.16	4.16	4.16	4.16
45.0	5.00	4.72	4.44	4.72	4.72	4.72	4.44	4.16	4.16
67.5	8.05	6.66	5.83	5.55	5.55	6.11	5.55	4.44	3.89
90.0	8.60	8.33	8.05	8.05	8.60	8.33	6.38	4.44	4.16
112.5	7.77	6.66	5.27	4.72	5.27	5.27	5.00	4.16	4.16
135.0	4.72	4.44	4.44	4.16	4.16	4.72	3.61	4.16	3.89
157.5	2.78	3.33	3.61	3.61	3.89	3.33	3.33	3.33	3.89
180.0	2.50	2.78	3.33	3.33	3.33	3.61	3.89	3.89	3.61
202.5	2.50	2.78	2.78	3.05	3.33	2.22	1.94	1.94	3.61
225.0	3.61	3.61	3.33	2.22	2.22	3.61	3.33	3.61	3.89
247.5	5.27	4.72	3.33	2.50	3.89	3.61	3.61	3.61	3.89
270.0	4.72	4.16	3.61	3.05	2.50	3.61	3.61	3.61	4.16
292.5	4.72	4.72	4.44	3.89	3.89	4.16	2.78	3.89	4.16
315.0	3.33	3.61	3.61	3.61	3.89	3.61	3.61	3.61	3.61
337.5	2.50	2.78	3.33	3.33	3.33	3.61	3.61	3.89	3.89
360.0	2.78	2.78	3.05	3.33	3.61	3.61	3.89	4.16	3.89
C/γ(°)	180.0								
0.0	2.78								
22.5	4.16								
45.0	4.44								
67.5	3.89								
90.0	4.16								
112.5	3.89								
135.0	4.16								
157.5	4.44								
180.0	2.78								
202.5	4.16								
225.0	4.44								
247.5	3.89								
270.0	4.16								
292.5	3.89								
315.0	4.16								
337.5	4.44								
360.0	2.78								