

Report No.:

Test Time: 2023/7/1 9:36:01

LUMINAIRE PHOTOMETRIC TEST REPORT

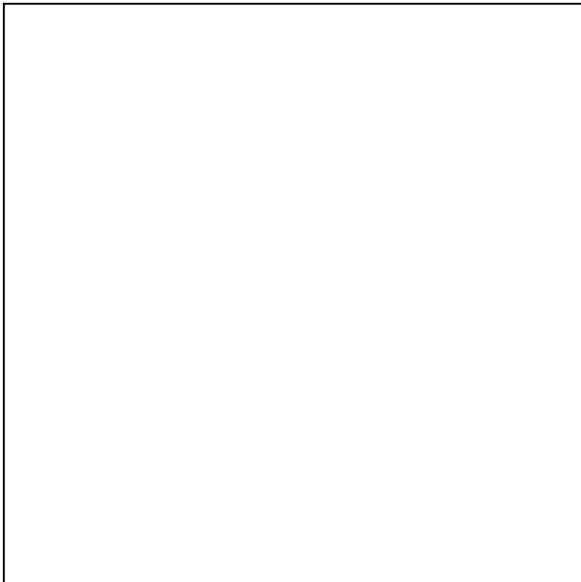
Luminaire Property

Manufacturer: 0	Voltage(V): 218.30 V
Luminaire Type: 150W-UFO-D	Current(A): 0.6360 A
Lamp Type:	Power(W): 126.44 W
Luminous Width: 0 mm	Power Factor: 0.9090
Luminous Length: 0 mm	Lamp Luminous Flux: 10961.75
Luminous Height: 0 mm	

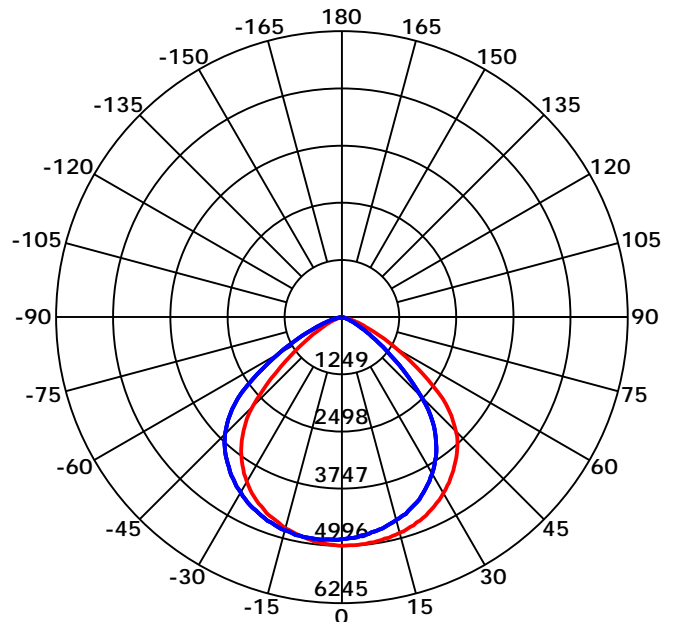
Photometric Results

CIE Class: Direct	Max. Intensity: 4995.73 cd
Luminaire Luminous Flux: 10961.75 lm	Max. Intensity Angle: C=180 Gamma=0
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 86.70 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 99.4,99.8	Center Intensity: 4995.73 cd
Field Angle(10%) C0-180,C90-270: 131.0,131.4	Effective Luminous Flux: 10645.59 lm
S/MH C0-180,C90-270: 1.250,1.250	ERP(φuse)(120deg): 10140.89 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 99.4 deg,99.8 deg

C0-180 ——— C90-270 ———

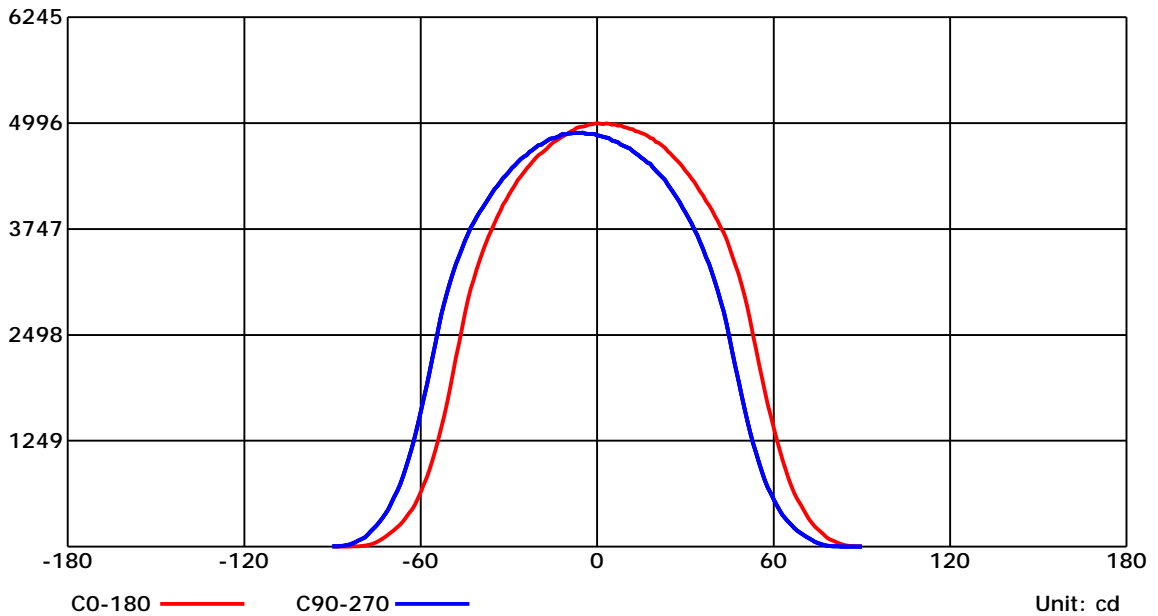
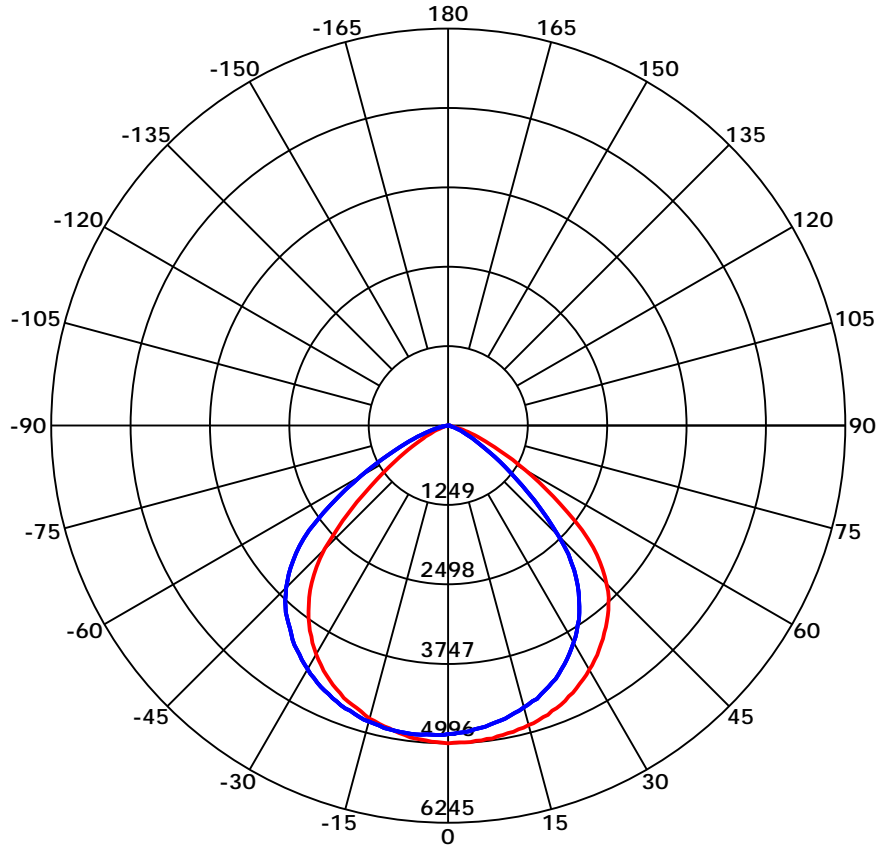
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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Luminous Intensity Distribution Curve



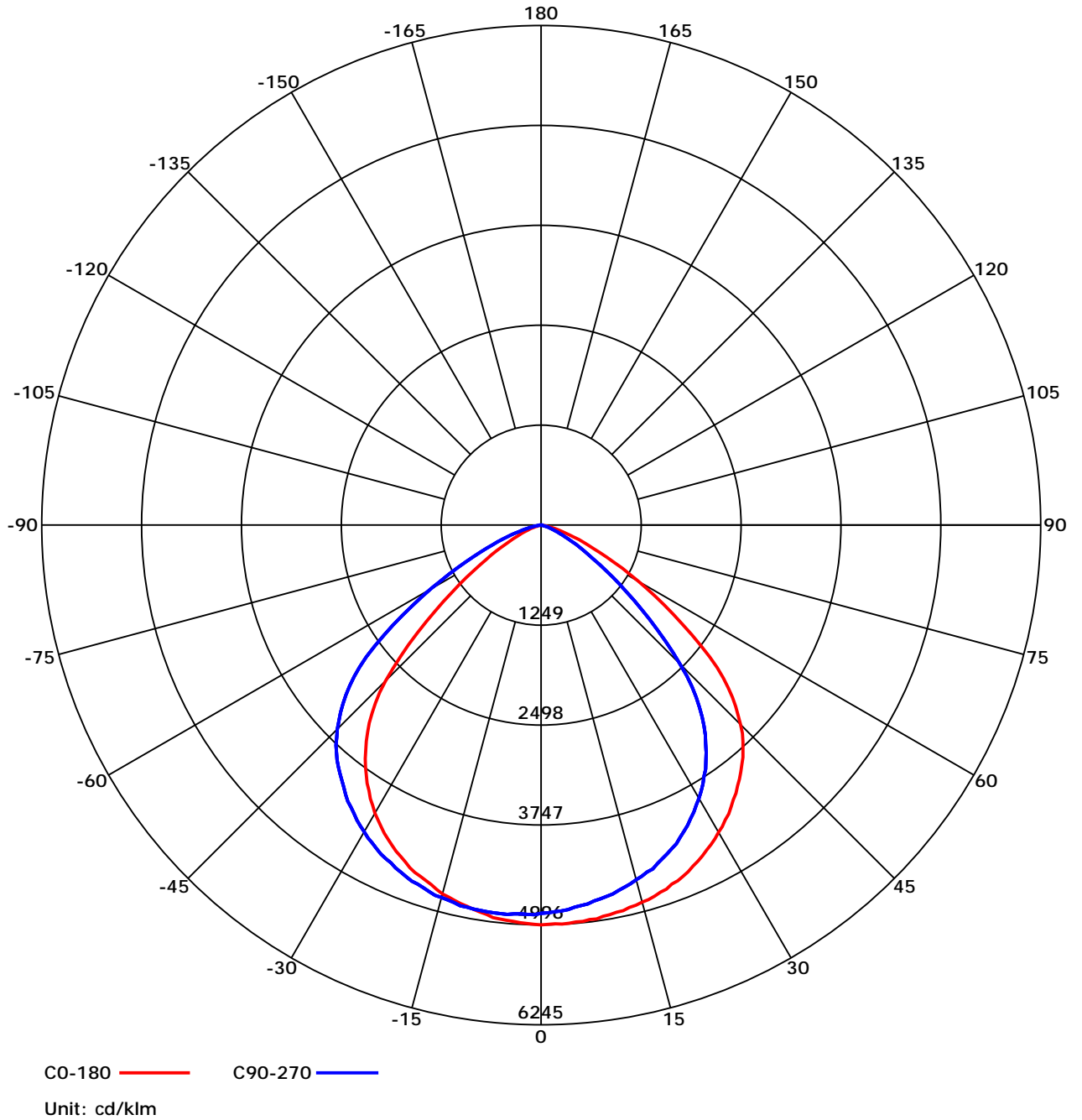
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Luminous Intensity Distribution Curve



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G Range: 0 - 90 Deg
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 Humidity:
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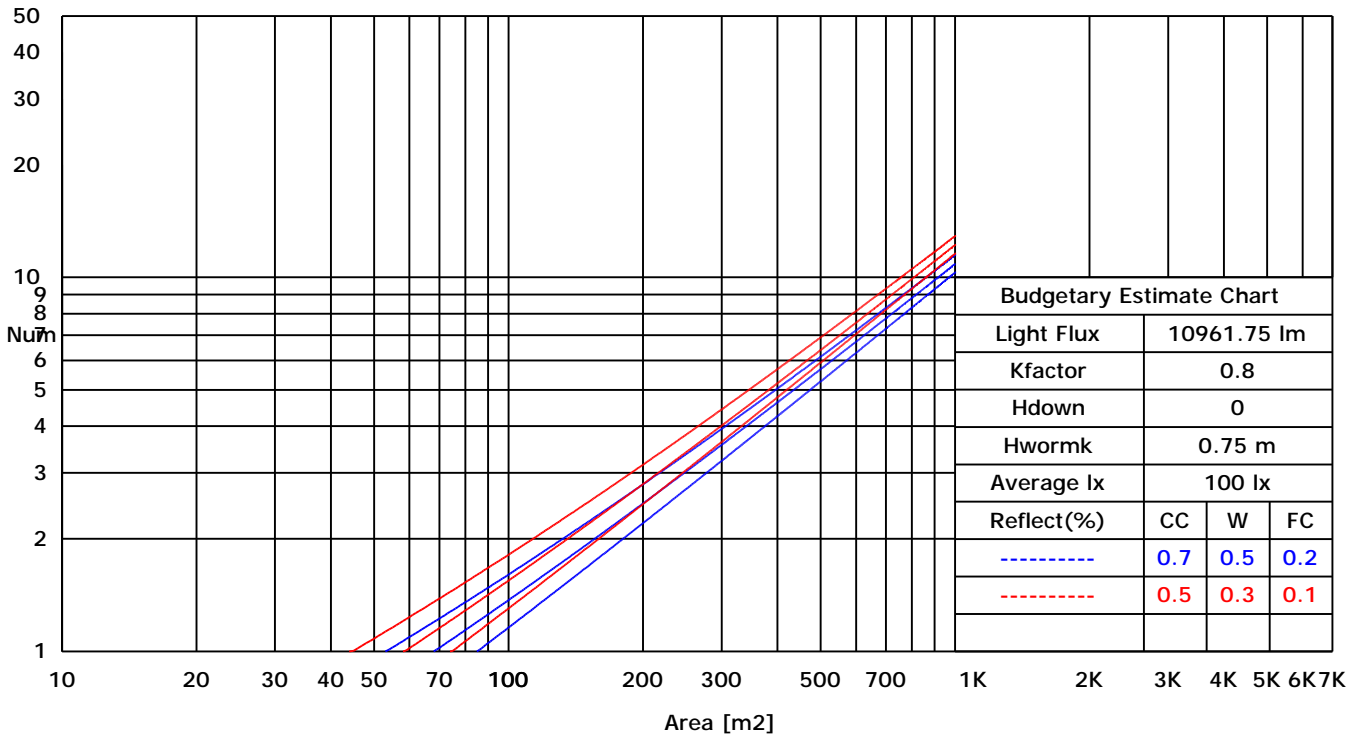
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UTILIZATION FACTORS TABLE

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 FOR RHOFC=20															
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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.91	0.90	0.88	0.83
2	1.00	0.98	0.97	0.99	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.85	0.81	0.78	0.80	0.76	0.73	0.69
4	0.84	0.82	0.80	0.83	0.81	0.79	0.81	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.63
5	0.77	0.75	0.74	0.77	0.74	0.72	0.75	0.72	0.69	0.73	0.69	0.65	0.70	0.66	0.62	0.58
6	0.71	0.69	0.68	0.71	0.68	0.67	0.70	0.66	0.64	0.68	0.64	0.60	0.66	0.61	0.57	0.53
7	0.66	0.64	0.63	0.66	0.63	0.62	0.65	0.61	0.59	0.64	0.59	0.56	0.62	0.57	0.53	0.49
8	0.62	0.60	0.59	0.62	0.59	0.57	0.61	0.57	0.55	0.60	0.55	0.52	0.59	0.53	0.49	0.46
9	0.58	0.56	0.55	0.58	0.55	0.53	0.57	0.54	0.51	0.57	0.52	0.49	0.55	0.50	0.46	0.43
10	0.54	0.52	0.51	0.54	0.52	0.50	0.54	0.50	0.48	0.53	0.49	0.46	0.52	0.47	0.43	0.40

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



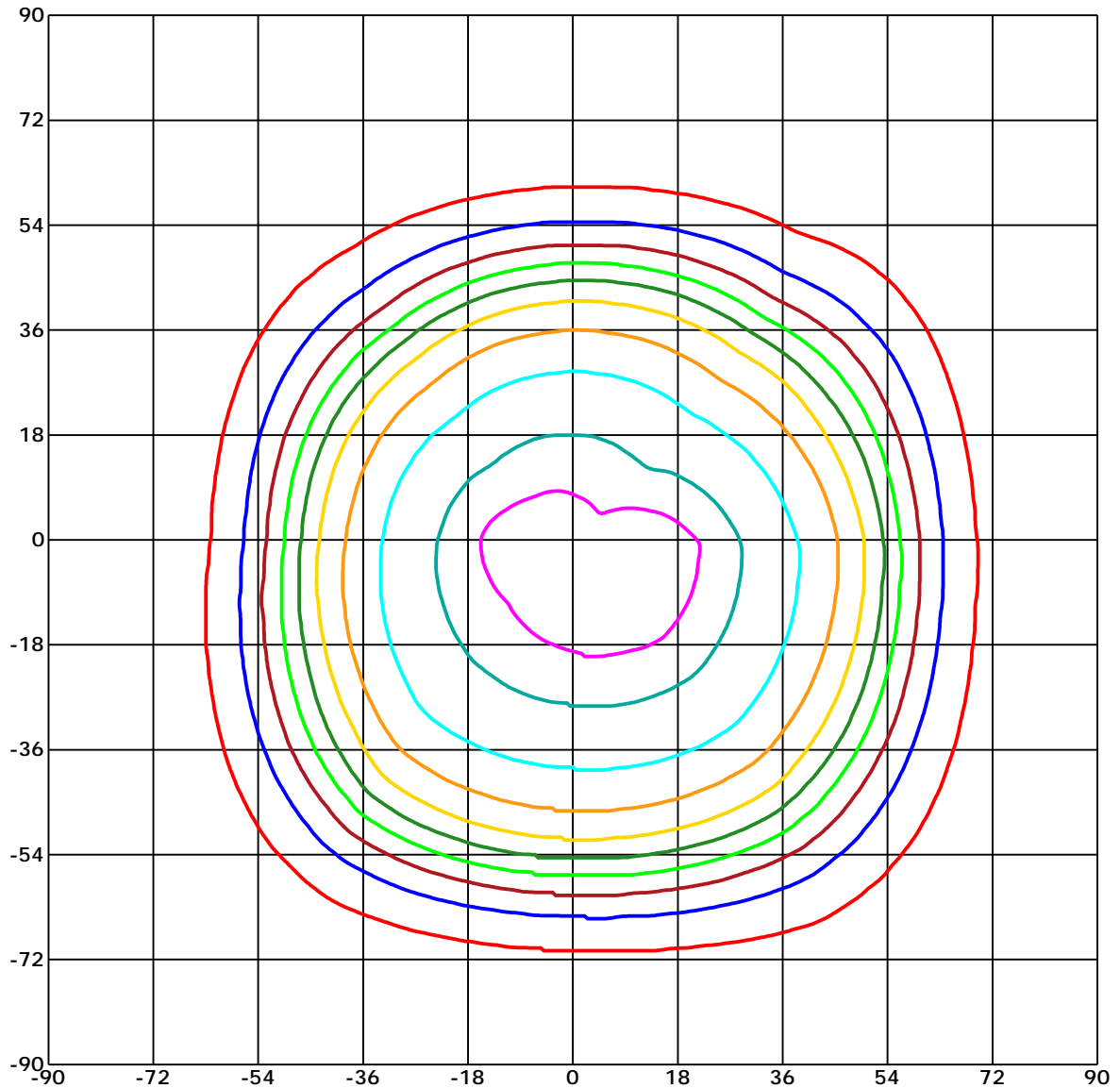
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 4995.728 cd

- | | |
|----------------------------------|----------------------------------|
| — 4745.941(95%I _{max}) | — 2497.864(50%I _{max}) |
| — 4496.155(90%I _{max}) | — 1998.291(40%I _{max}) |
| — 3996.582(80%I _{max}) | — 1498.718(30%I _{max}) |
| — 3497.009(70%I _{max}) | — 999.146(20%I _{max}) |
| — 2997.437(60%I _{max}) | — 499.573(10%I _{max}) |

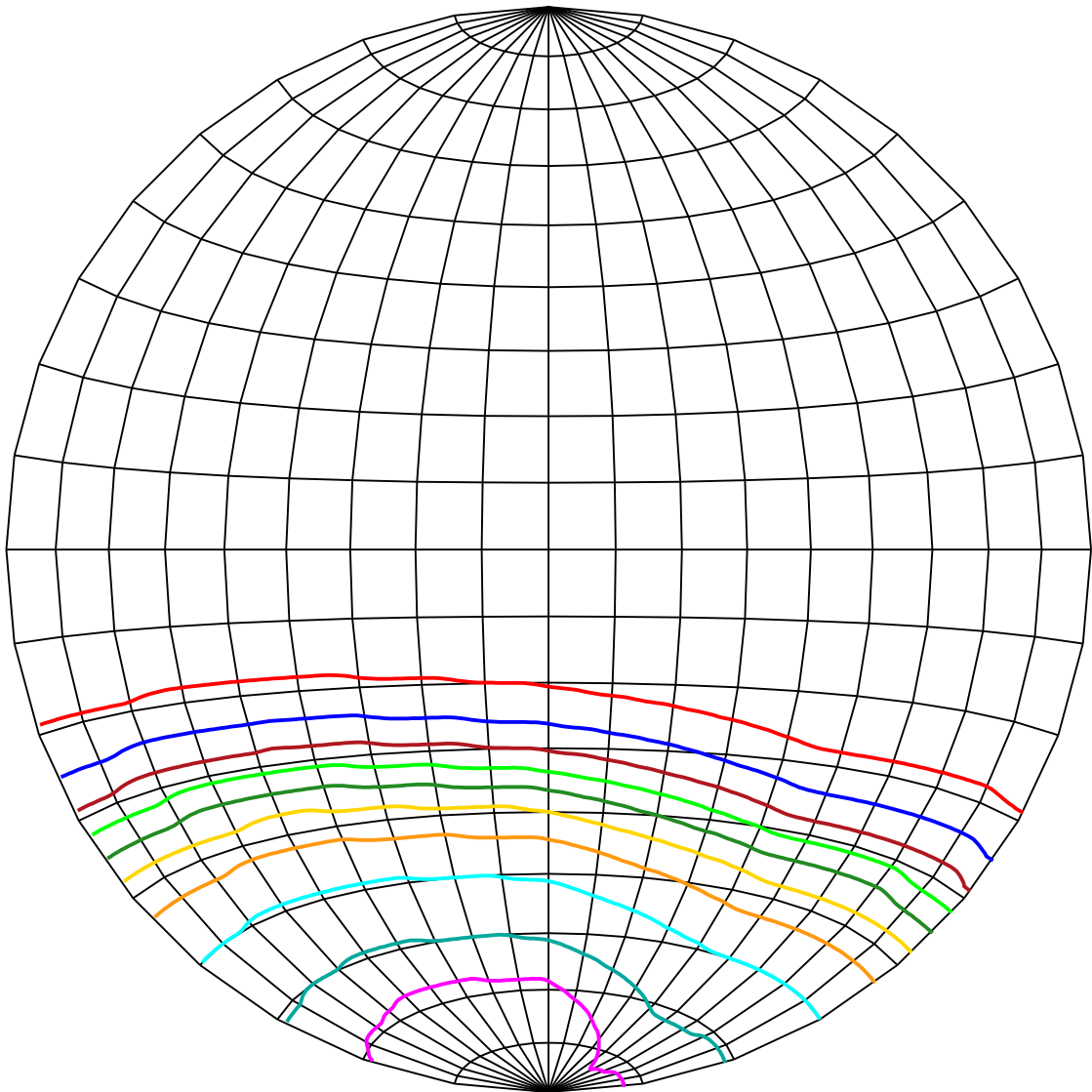
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 4995.728 cd

— 4745.941(95%Imax)
 — 4496.155(90%Imax)
 — 3996.582(80%Imax)
 — 3497.009(70%Imax)
 — 2997.437(60%Imax)

— 2497.864(50%Imax)
 — 1998.291(40%Imax)
 — 1498.718(30%Imax)
 — 999.146(20%Imax)
 — 499.573(10%Imax)

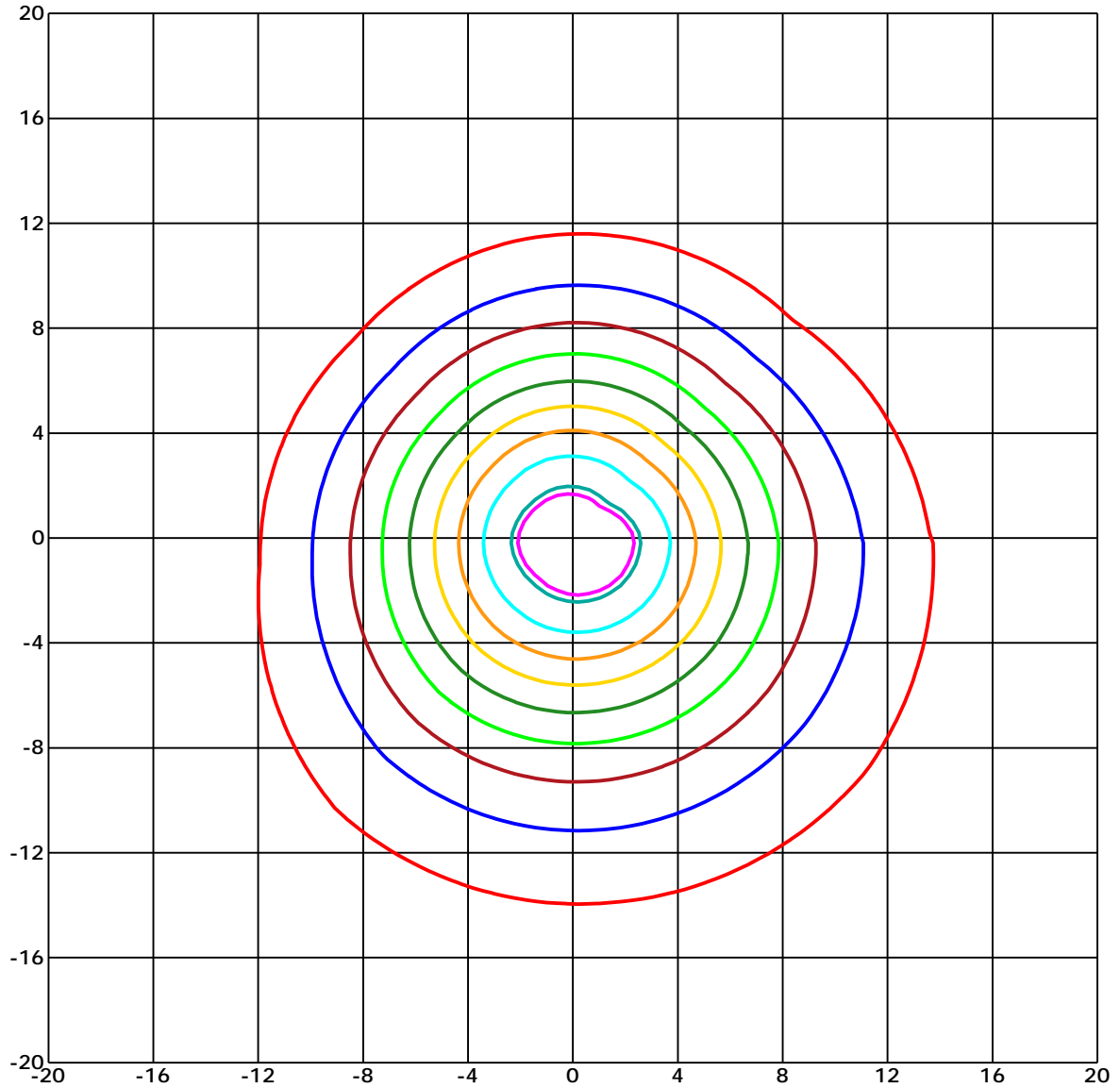
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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ISOLX DIAGRAM



Unit of illumination: lx Height of plane: 10.0(m)/32.81(ft)

- | | |
|-------------------------------|-------------------------------|
| — 45.961(1%E _{max}) | — 24.979(1%E _{max}) |
| — 44.962(1%E _{max}) | — 19.983(0%E _{max}) |
| — 39.966(1%E _{max}) | — 14.987(0%E _{max}) |
| — 34.97(1%E _{max}) | — 9.991(0%E _{max}) |
| — 29.974(1%E _{max}) | — 4.996(0%E _{max}) |

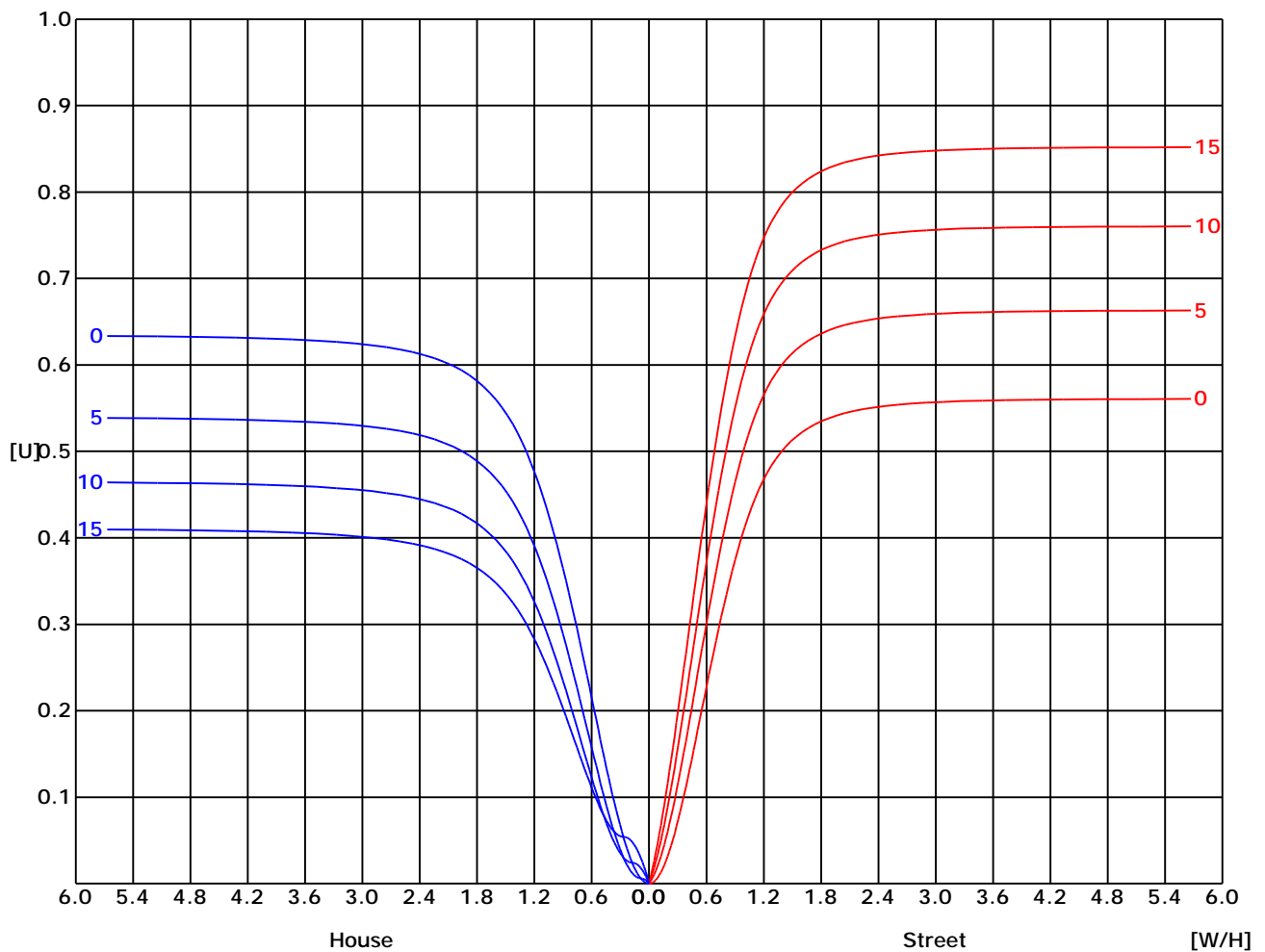
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

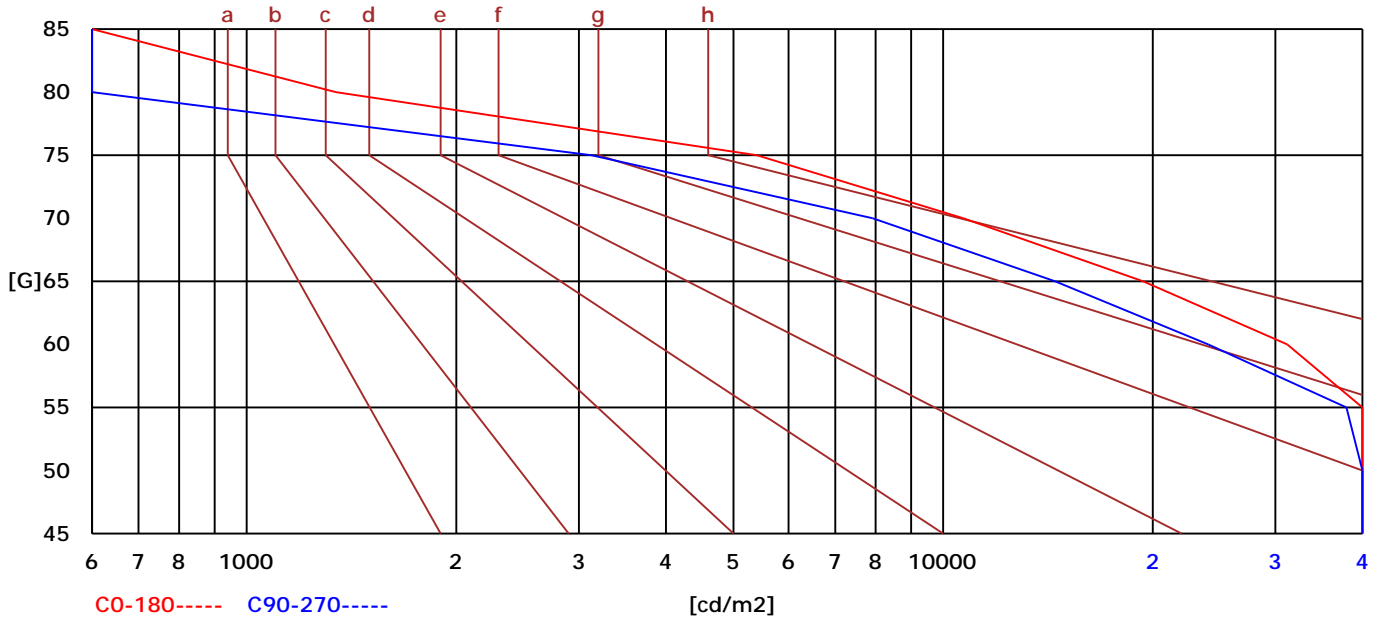
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	91653	68920	47466	31180	19365	10692	5404	1344	0
C90	79354	56620	37917	24024	14475	7927	3126	310	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
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



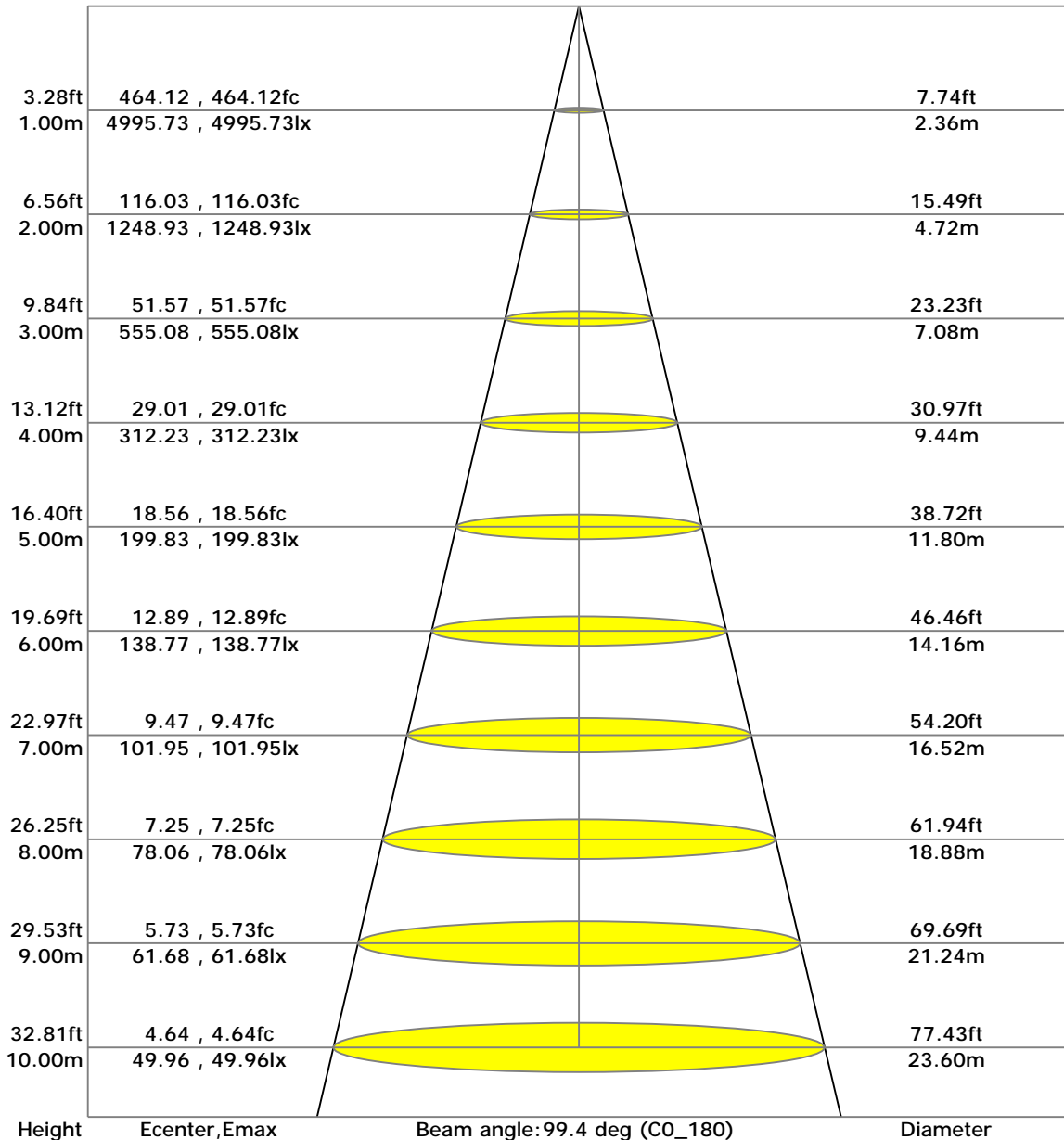
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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UGR(Unified Glare Rating) TABLE

RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H	2H	18.26	18.32	18.46	18.51	18.75	16.48	16.54	16.68	16.73	16.97
	3H	18.22	18.28	18.43	18.48	18.72	16.46	16.53	16.67	16.72	16.97
	4H	18.19	18.26	18.41	18.45	18.70	16.44	16.51	16.65	16.70	16.95
	6H	18.17	18.23	18.38	18.43	18.68	16.42	16.48	16.63	16.68	16.93
	8H	18.15	18.21	18.37	18.42	18.67	16.40	16.46	16.62	16.67	16.92
	12H	18.14	18.20	18.36	18.40	18.66	16.39	16.45	16.61	16.65	16.91
4H	2H	18.82	18.89	19.04	19.08	19.33	16.63	16.69	16.84	16.89	17.14
	3H	18.79	18.85	19.01	19.05	19.31	16.61	16.67	16.84	16.88	17.14
	4H	18.76	18.81	18.99	19.03	19.29	16.59	16.65	16.82	16.86	17.12
	6H	18.72	18.78	18.96	19.00	19.26	16.56	16.61	16.80	16.83	17.10
	8H	18.71	18.76	18.95	18.98	19.25	16.54	16.59	16.79	16.82	17.09
	12H	18.69	18.74	18.94	18.97	19.24	16.52	16.57	16.77	16.80	17.07
8H	4H	18.84	18.90	19.05	19.10	19.35	16.59	16.65	16.81	16.85	17.11
	6H	18.73	18.77	18.98	19.01	19.28	16.51	16.56	16.76	16.79	17.07
	8H	18.71	18.75	18.97	18.99	19.27	16.49	16.53	16.75	16.78	17.05
	12H	18.69	18.72	18.95	18.98	19.26	16.47	16.51	16.74	16.76	17.04
12H	4H	18.75	18.80	19.00	19.03	19.30	16.53	16.58	16.78	16.81	17.08
	6H	18.71	18.75	18.97	19.00	19.27	16.49	16.53	16.75	16.78	17.05

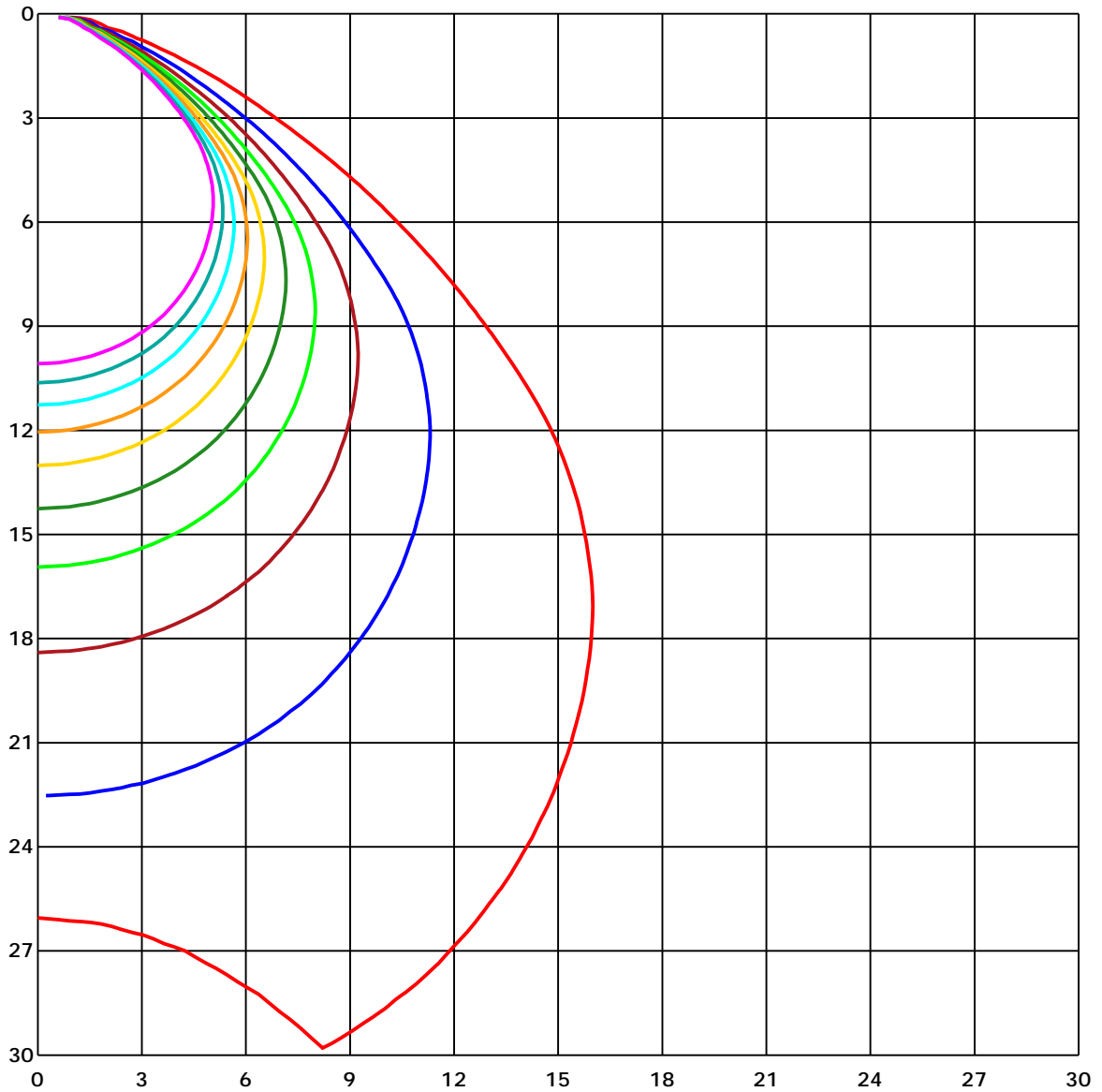
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G Range: 0 - 90 Deg
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 Humidity:
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|----------|----------|
| — 49.182 | — 24.591 |
| — 44.264 | — 19.673 |
| — 39.346 | — 14.755 |
| — 34.428 | — 9.836 |
| — 29.509 | — 4.918 |

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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 Humidity:
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4995.73	4825.4	4851.87	4900.49	4995.73	4825.4	4851.87	4900.49	4995.73	
G1	4988.76	4800.87	4845.11	4887.97	4990.26	4813.74	4867.06	4908.71	4988.76	
G2	4985.83	4790.89	4833.58	4880.05	4980.92	4817.57	4867.01	4926.36	4985.83	
G3	4990.95	4785.12	4827.25	4879.67	4976.62	4827.9	4866.02	4914.27	4990.95	
G4	4988.54	4769.59	4817.48	4863.1	4963.88	4824.5	4869.77	4918.22	4988.54	
G5	4977.05	4760.33	4792.39	4849.24	4955.79	4834.7	4881.95	4931.78	4977.05	
G6	4979.63	4742.73	4781.46	4831.94	4949.34	4826.05	4880.83	4920.63	4979.63	
G7	4965.73	4730.73	4769.37	4814.51	4940.04	4829.88	4880.53	4918.83	4965.73	
G8	4968.62	4714.33	4744.2	4795.92	4912.93	4821.79	4878.5	4922.57	4968.62	
G9	4949.64	4699.96	4729.61	4783.27	4896.23	4816.62	4874.2	4922.48	4949.64	
G10	4942.37	4677.88	4712.65	4748.41	4875.75	4816.15	4870.8	4920.76	4942.37	
G11	4928.21	4658.9	4696.43	4728.1	4851.95	4805.43	4863.7	4919.73	4928.21	
G12	4925.54	4639.97	4666.0	4700.95	4835.04	4796.74	4863.66	4903.64	4925.54	
G13	4903.42	4613.37	4640.23	4674.01	4812.58	4782.88	4841.58	4900.19	4903.42	
G14	4894.99	4586.18	4618.93	4657.61	4789.25	4767.61	4827.42	4888.19	4894.99	
G15	4878.03	4565.69	4588.85	4628.74	4770.96	4750.01	4818.99	4868.18	4878.03	
G16	4867.06	4534.32	4565.56	4588.5	4736.97	4735.68	4812.4	4852.81	4867.06	
G17	4847.22	4506.74	4533.38	4557.22	4698.71	4718.68	4789.73	4840.03	4847.22	
G18	4822.73	4475.06	4517.88	4542.02	4668.8	4694.97	4765.67	4835.69	4822.73	
G19	4809.69	4443.69	4472.1	4486.34	4641.52	4675.43	4743.9	4810.6	4809.69	
G20	4774.19	4423.9	4433.84	4455.44	4618.88	4655.38	4734.3	4790.76	4774.19	
G21	4761.5	4377.08	4397.95	4414.0	4585.36	4634.16	4708.61	4773.16	4761.5	
G22	4730.99	4342.26	4360.81	4365.5	4538.11	4608.86	4679.73	4764.21	4730.99	
G23	4704.13	4297.55	4327.12	4331.33	4496.62	4582.17	4655.72	4730.34	4704.13	
G24	4662.82	4252.11	4272.38	4277.41	4460.6	4562.12	4620.26	4702.28	4662.82	
G25	4635.06	4226.76	4222.5	4224.52	4414.21	4534.41	4598.79	4696.64	4635.06	
G26	4597.62	4164.53	4172.54	4169.35	4368.73	4503.64	4571.37	4653.14	4597.62	
G27	4556.83	4108.63	4115.26	4108.72	4323.41	4473.3	4536.73	4634.72	4556.83	
G28	4522.32	4063.32	4063.23	4056.99	4265.28	4449.5	4498.86	4598.57	4522.32	
G29	4481.48	4005.22	4001.05	3987.36	4209.33	4410.38	4467.58	4564.36	4481.48	
G30	4433.02	3970.15	3941.66	3929.53	4154.59	4375.05	4423.12	4523.52	4433.02	
G31	4394.85	3888.52	3882.32	3856.84	4089.1	4331.89	4386.24	4482.6	4394.85	
G32	4343.21	3822.59	3814.2	3783.9	4031.69	4292.82	4345.92	4447.82	4343.21	
G33	4303.1	3762.21	3740.44	3709.67	3954.14	4251.25	4297.34	4407.37	4303.1	
G34	4244.28	3692.46	3676.4	3630.53	3891.14	4207.95	4253.83	4366.71	4244.28	
G35	4188.89	3625.54	3592.14	3546.79	3810.67	4161.69	4213.21	4312.83	4188.89	
G36	4142.03	3542.48	3511.11	3455.3	3736.44	4107.77	4162.08	4267.47	4142.03	

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	4078.29	3466.87	3416.95	3355.33	3653.51	4059.27	4100.24	4219.62	4078.29	
G38	4025.32	3381.62	3333.3	3248.22	3563.91	4004.66	4047.05	4168.15	4025.32	
G39	3967.7	3291.25	3233.89	3139.56	3476.21	3939.86	3996.01	4113.37	3967.7	
G40	3901.34	3203.68	3128.76	3027.11	3375.86	3877.59	3946.83	4058.8	3901.34	
G41	3842.26	3100.36	3015.92	2898.57	3275.24	3810.54	3890.37	3996.53	3842.26	
G42	3769.1	2990.19	2896.25	2755.61	3156.56	3745.56	3826.12	3940.67	3769.1	
G43	3699.86	2878.82	2768.31	2597.55	3040.15	3664.53	3760.79	3865.58	3699.86	
G44	3620.42	2743.39	2621.26	2421.46	2904.85	3587.15	3680.88	3787.43	3620.42	
G45	3522.34	2592.34	2453.22	2244.46	2748.26	3507.84	3605.18	3712.81	3522.34	
G46	3423.28	2424.34	2286.63	2073.1	2574.96	3410.11	3517.35	3632.17	3423.28	
G47	3323.1	2262.41	2123.02	1905.92	2401.96	3317.46	3430.81	3545.54	3323.1	
G48	3216.93	2093.37	1955.15	1749.27	2232.58	3214.14	3336.18	3455.68	3216.93	
G49	3095.36	1928.47	1794.59	1596.33	2051.46	3109.05	3233.11	3360.54	3095.36	
G50	2972.03	1772.04	1640.18	1455.78	1873.3	3007.7	3124.8	3261.65	2972.03	
G51	2830.84	1614.97	1491.98	1323.93	1708.05	2872.32	3007.45	3146.66	2830.84	
G52	2673.03	1469.77	1352.37	1201.97	1551.19	2722.31	2882.13	3036.58	2673.03	
G53	2498.62	1332.19	1224.91	1078.51	1402.04	2570.44	2736.16	2906.02	2498.62	
G54	2324.29	1207.22	1104.11	969.76	1267.08	2408.59	2568.42	2768.01	2324.29	
G55	2154.78	1089.01	990.85	869.92	1140.22	2252.68	2397.88	2609.3	2154.78	
G56	1995.17	977.34	883.65	777.19	1022.52	2087.17	2234.86	2443.28	1995.17	
G57	1836.42	871.95	783.86	692.8	916.01	1921.19	2067.51	2278.76	1836.42	
G58	1682.36	777.57	697.79	609.18	818.37	1760.03	1902.04	2117.08	1682.36	
G59	1535.83	695.6	628.08	540.42	729.68	1602.74	1742.43	1954.8	1535.83	
G60	1400.49	623.6	556.42	480.47	644.51	1455.96	1590.52	1800.57	1400.49	
G61	1269.66	554.36	491.44	418.93	567.44	1315.67	1442.23	1649.87	1269.66	
G62	1148.27	485.51	430.55	365.05	497.25	1186.87	1304.91	1506.48	1148.27	
G63	1028.33	425.6	375.38	321.89	439.85	1066.37	1173.87	1371.27	1028.33	
G64	912.36	373.62	329.98	281.91	392.12	952.68	1047.65	1239.24	912.36	
G65	805.89	327.36	292.5	244.69	343.15	850.65	936.37	1118.19	805.89	
G66	712.77	282.26	257.04	212.11	300.07	754.08	830.25	1002.3	712.77	
G67	631.65	243.74	220.07	184.31	262.68	665.43	736.99	891.14	631.65	
G68	562.45	204.15	190.51	158.28	230.49	583.66	657.12	794.4	562.45	
G69	503.71	172.35	164.17	132.07	198.69	507.93	587.32	706.14	503.71	
G70	442.08	146.27	139.77	108.44	170.46	442.13	515.93	627.47	442.08	
G71	382.7	125.49	117.91	88.74	142.87	384.89	442.39	558.92	382.7	
G72	326.32	104.83	97.99	71.01	119.42	334.8	388.29	498.07	326.32	
G73	280.19	85.55	78.49	56.63	94.72	285.01	339.49	435.03	280.19	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2023/7/1 9:36:01

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity:
 Test Distance: 6.56 m
 Remarks:

