

Report No.:

Test Time: 2025/6/30 17:07:46

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H117-24°-25W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 70 mm

Voltage(V): 230.80 V
Current(A): 0.1060 A
Power(W): 23.40 W
Power Factor: 0.9520
Lamp Luminous Flux: 2162.60

Photometric Results

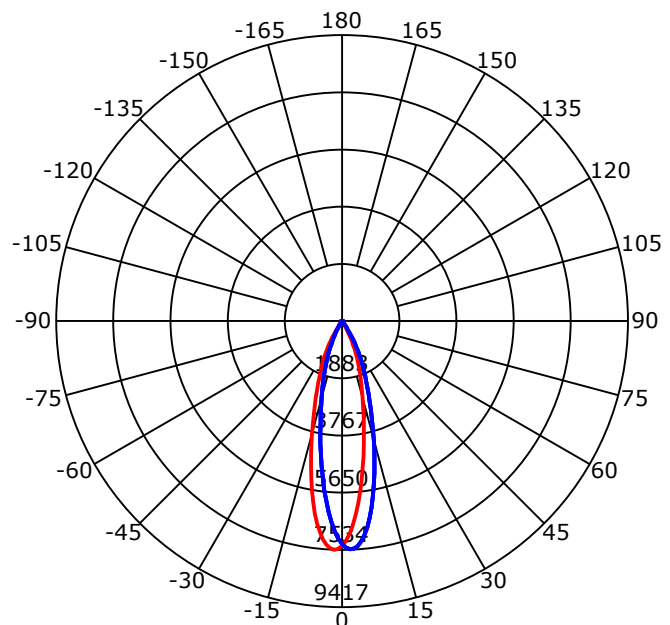
CIE Class: Direct
Luminaire Luminous Flux: 2162.603 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 92.43 lm/W
Beam Angle(50%) C0-180,C90-270: 26.2,26.8
Field Angle(10%) C0-180,C90-270: 55.8,56.0
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 7533.99 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 7401.23 cd
Effective Luminous Flux: 1957.08 lm
ERP(ϕ use)(120deg): 2159.15 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 26.2 deg,26.8 deg

C0-180 — C90-270 —

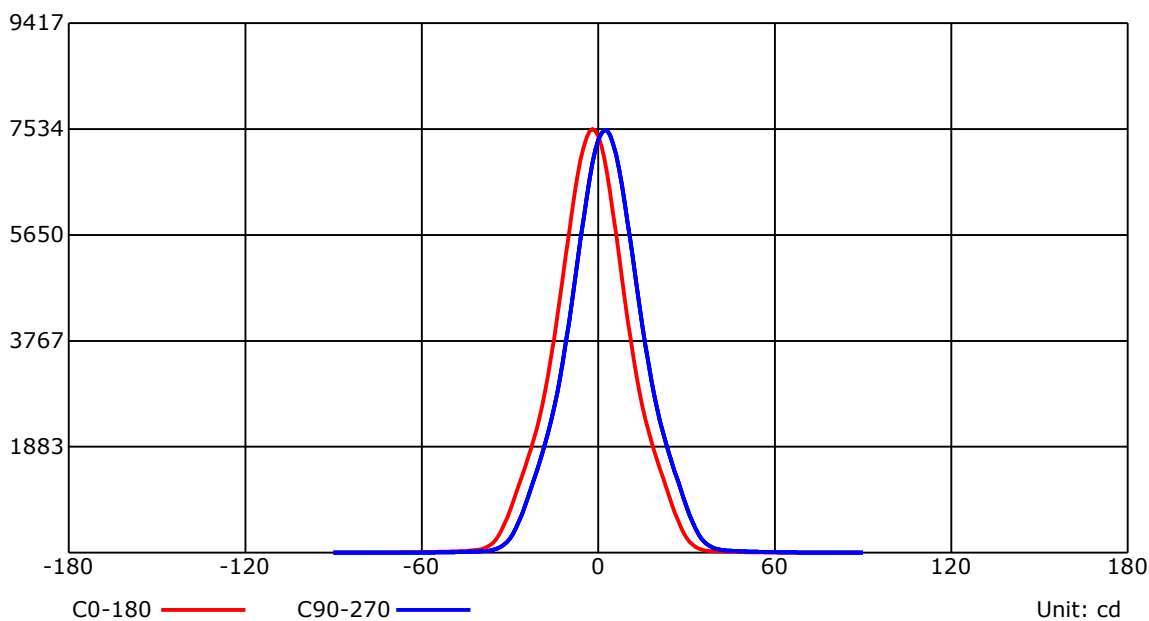
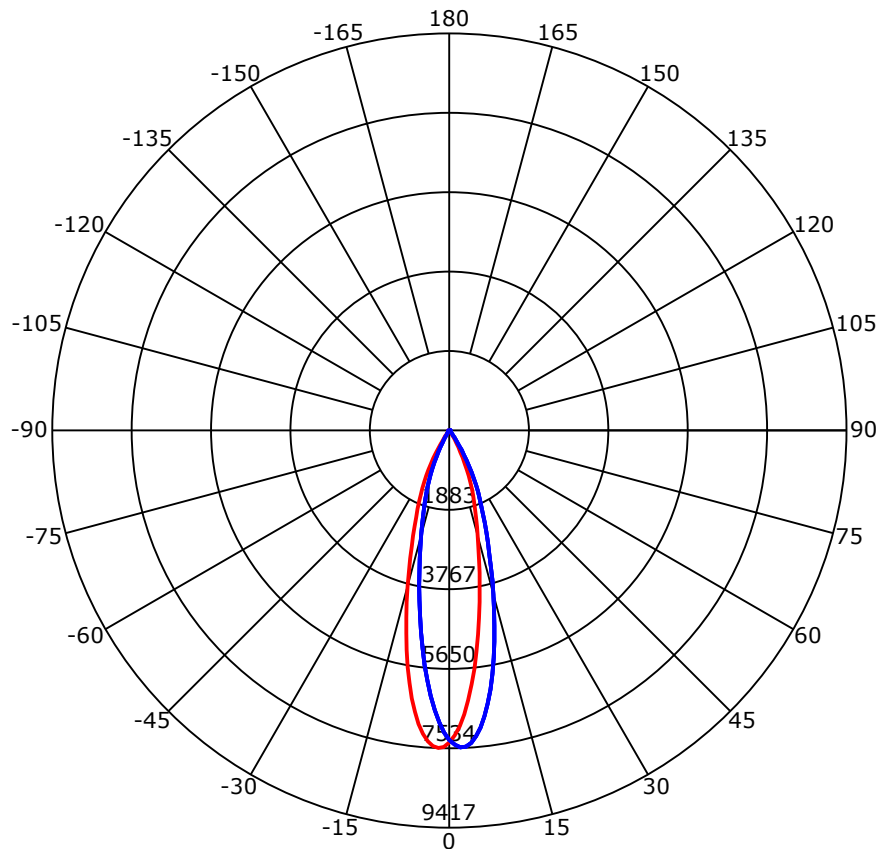
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:07:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/6/30 17:07:46

Luminous Intensity Distribution Curve



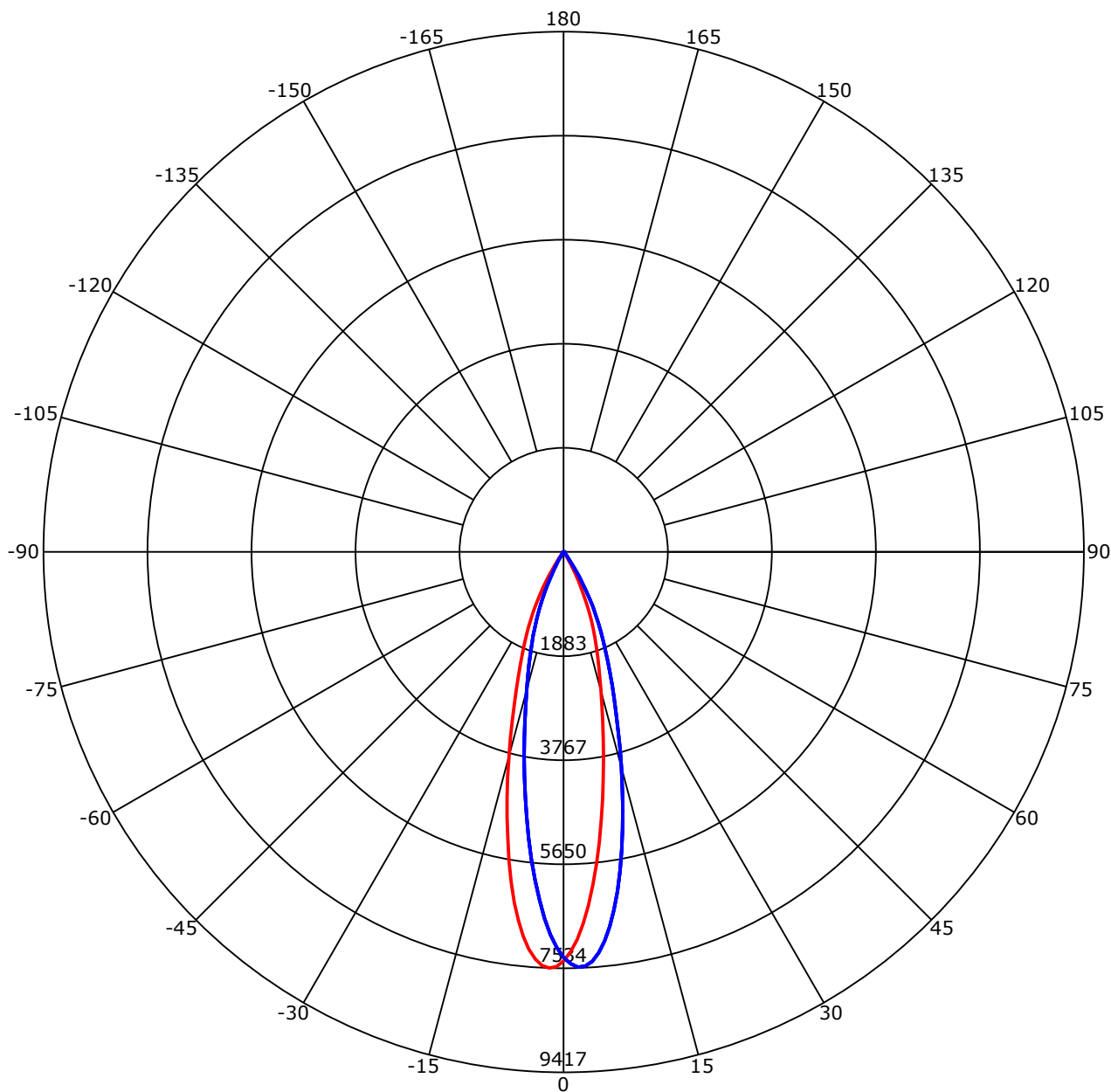
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:07:46

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Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.87 m
Remarks:

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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:07:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

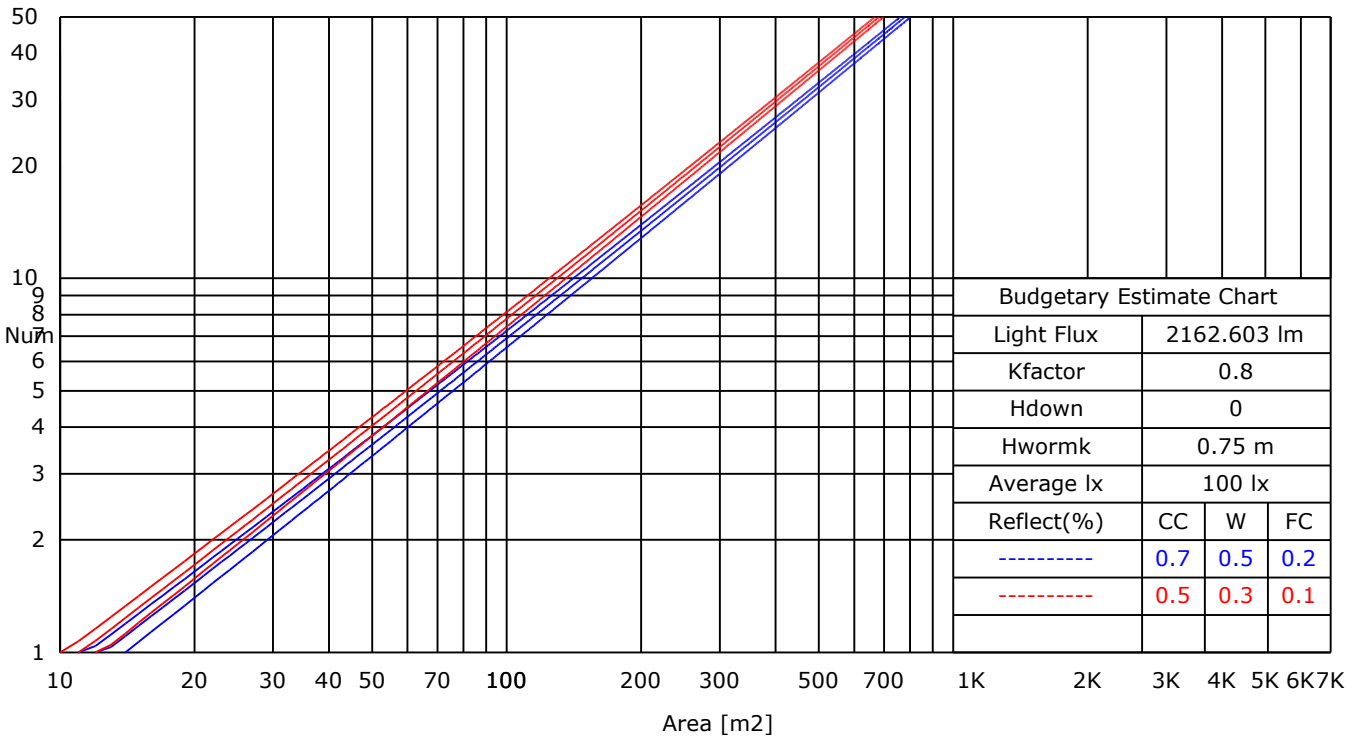
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	0.92	0.89	0.87	0.92	0.88	0.86	0.89	0.85	0.82	0.85	0.81	0.78	0.80	0.76	0.72	0.67
2	0.89	0.86	0.85	0.88	0.85	0.83	0.86	0.83	0.80	0.83	0.79	0.76	0.78	0.74	0.71	0.66
3	0.86	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.84	0.82	0.81	0.84	0.81	0.79	0.82	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.67	0.63
5	0.82	0.80	0.79	0.82	0.79	0.78	0.80	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.62
6	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.72	0.76	0.72	0.69	0.73	0.68	0.65	0.61
7	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
8	0.78	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.63	0.59
9	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.71	0.69	0.71	0.68	0.65	0.69	0.65	0.61	0.58
10	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.69	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



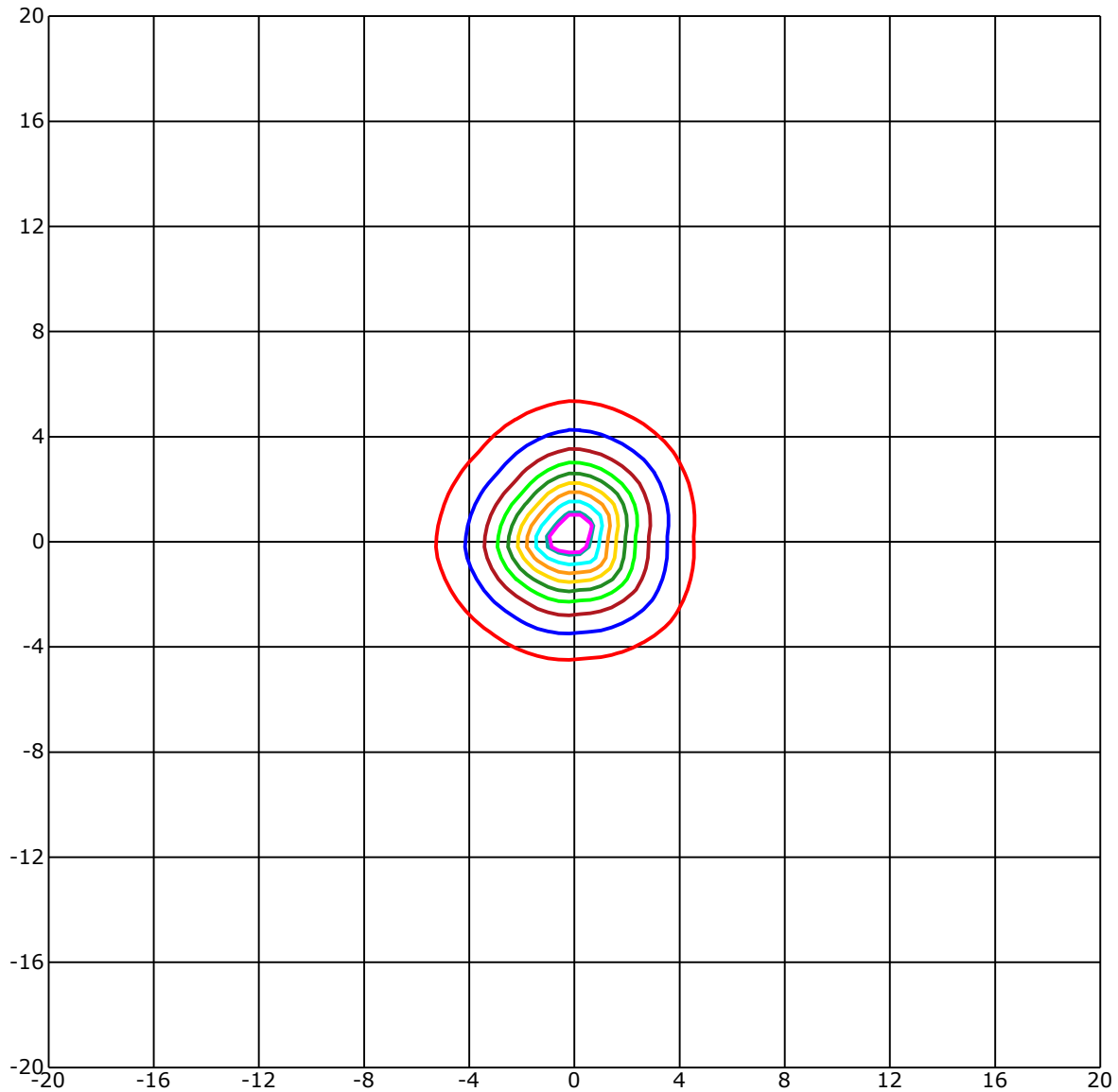
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:07:46

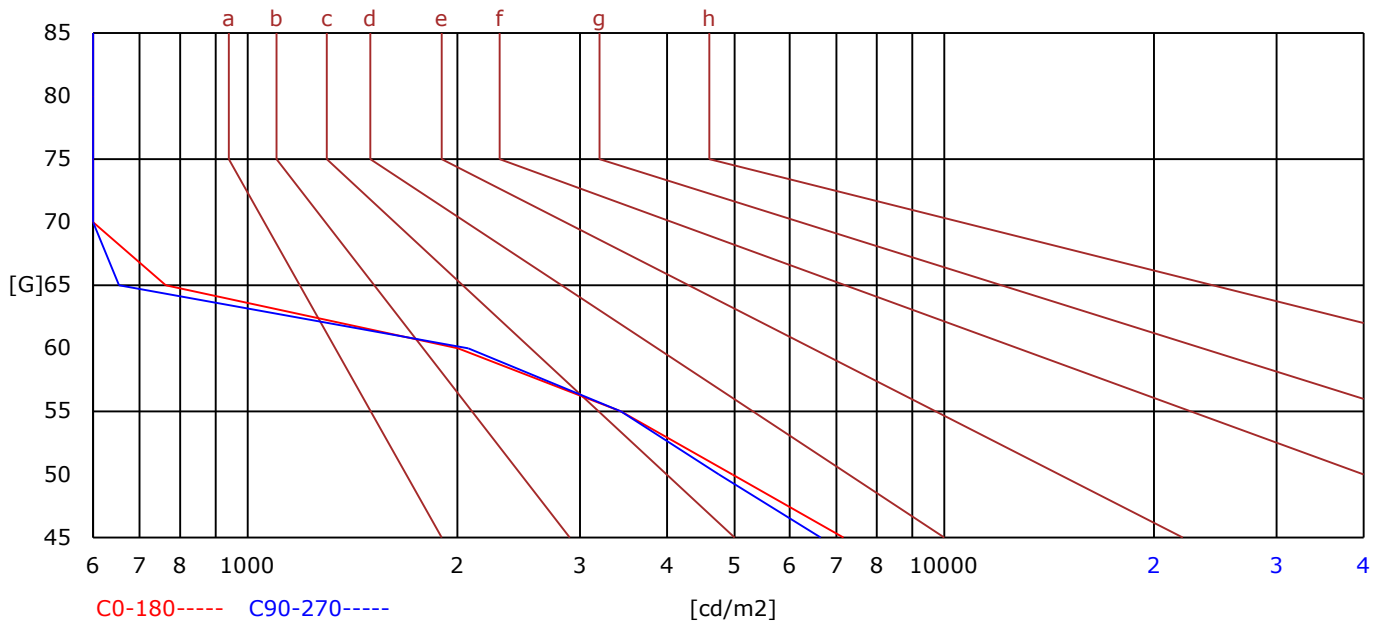
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7170	4966	3435	2005	763	0	0	0	0
C90	6649	4750	3435	2074	654	0	0	0	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



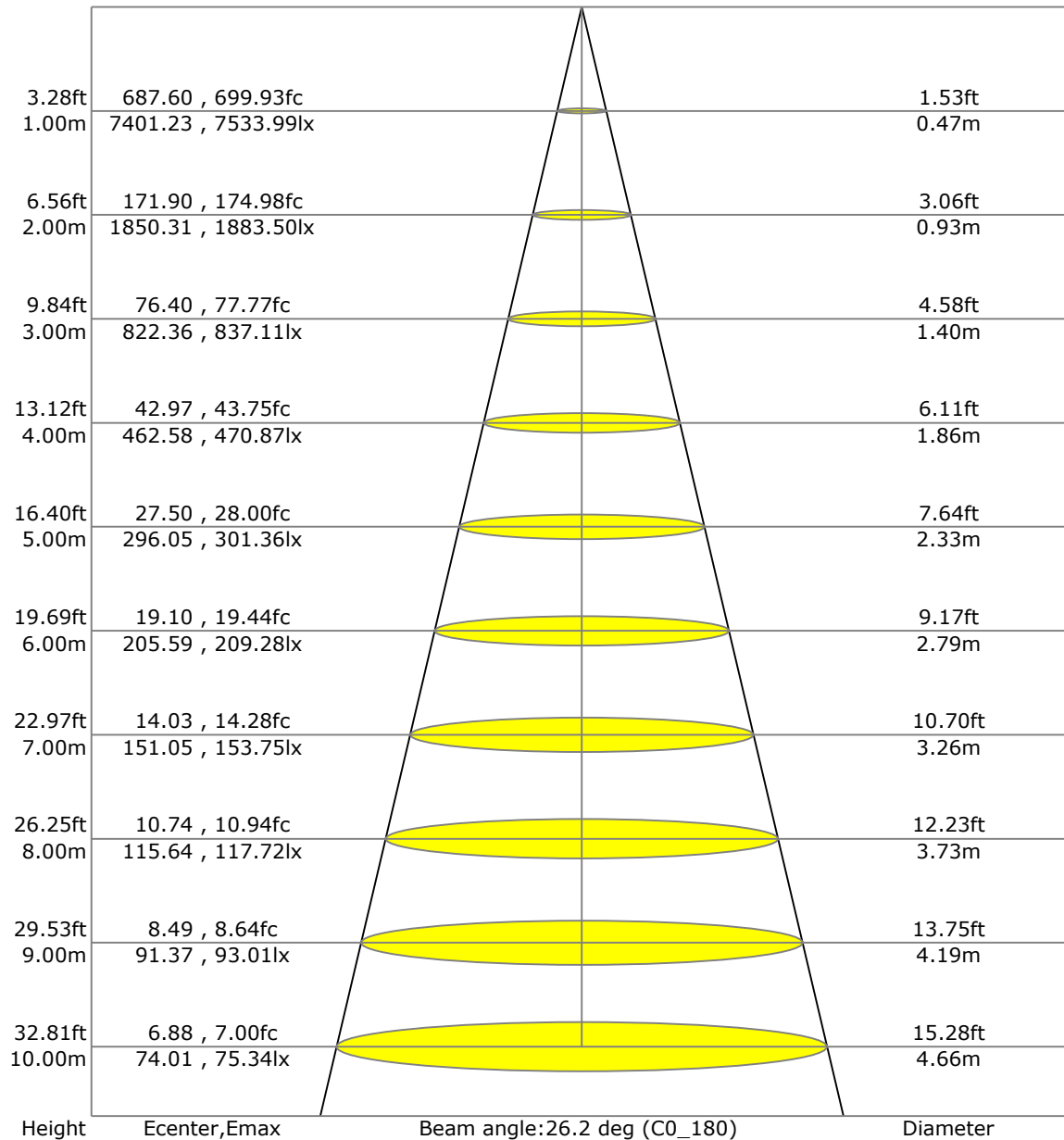
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G Interval: 1.0 Deg
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Humidity: 60
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Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:07:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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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	6.43	6.48	6.63	6.67	6.91	6.62	6.67	6.82	6.86	7.10
	3H	6.41	6.46	6.62	6.66	6.90	6.60	6.65	6.80	6.84	7.09
	4H	6.40	6.45	6.61	6.65	6.90	6.58	6.64	6.79	6.84	7.08
	6H	6.38	6.44	6.60	6.64	6.89	6.57	6.63	6.78	6.83	7.08
	8H	6.37	6.43	6.59	6.63	6.89	6.56	6.62	6.78	6.82	7.07
	12H	6.37	6.42	6.59	6.63	6.88	6.55	6.61	6.77	6.82	7.07
4H	2H	6.39	6.45	6.61	6.65	6.90	6.64	6.70	6.85	6.89	7.14
	3H	6.37	6.42	6.59	6.63	6.88	6.61	6.67	6.83	6.87	7.13
	4H	6.35	6.41	6.58	6.62	6.88	6.59	6.65	6.82	6.86	7.12
	6H	6.33	6.38	6.57	6.61	6.87	6.57	6.63	6.81	6.85	7.11
	8H	6.32	6.37	6.56	6.60	6.87	6.56	6.62	6.80	6.84	7.11
	12H	6.30	6.36	6.55	6.59	6.86	6.55	6.60	6.80	6.84	7.11
8H	4H	6.37	6.43	6.59	6.63	6.89	6.63	6.68	6.85	6.89	7.14
	6H	6.29	6.34	6.55	6.58	6.86	6.54	6.60	6.80	6.84	7.11
	8H	6.28	6.33	6.54	6.57	6.85	6.53	6.58	6.79	6.83	7.11
	12H	6.26	6.31	6.53	6.57	6.85	6.51	6.56	6.78	6.82	7.10
12H	4H	6.30	6.36	6.55	6.59	6.86	6.56	6.62	6.81	6.85	7.12
	6H	6.28	6.33	6.54	6.57	6.85	6.53	6.59	6.80	6.83	7.11

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Test Distance: 6.87 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

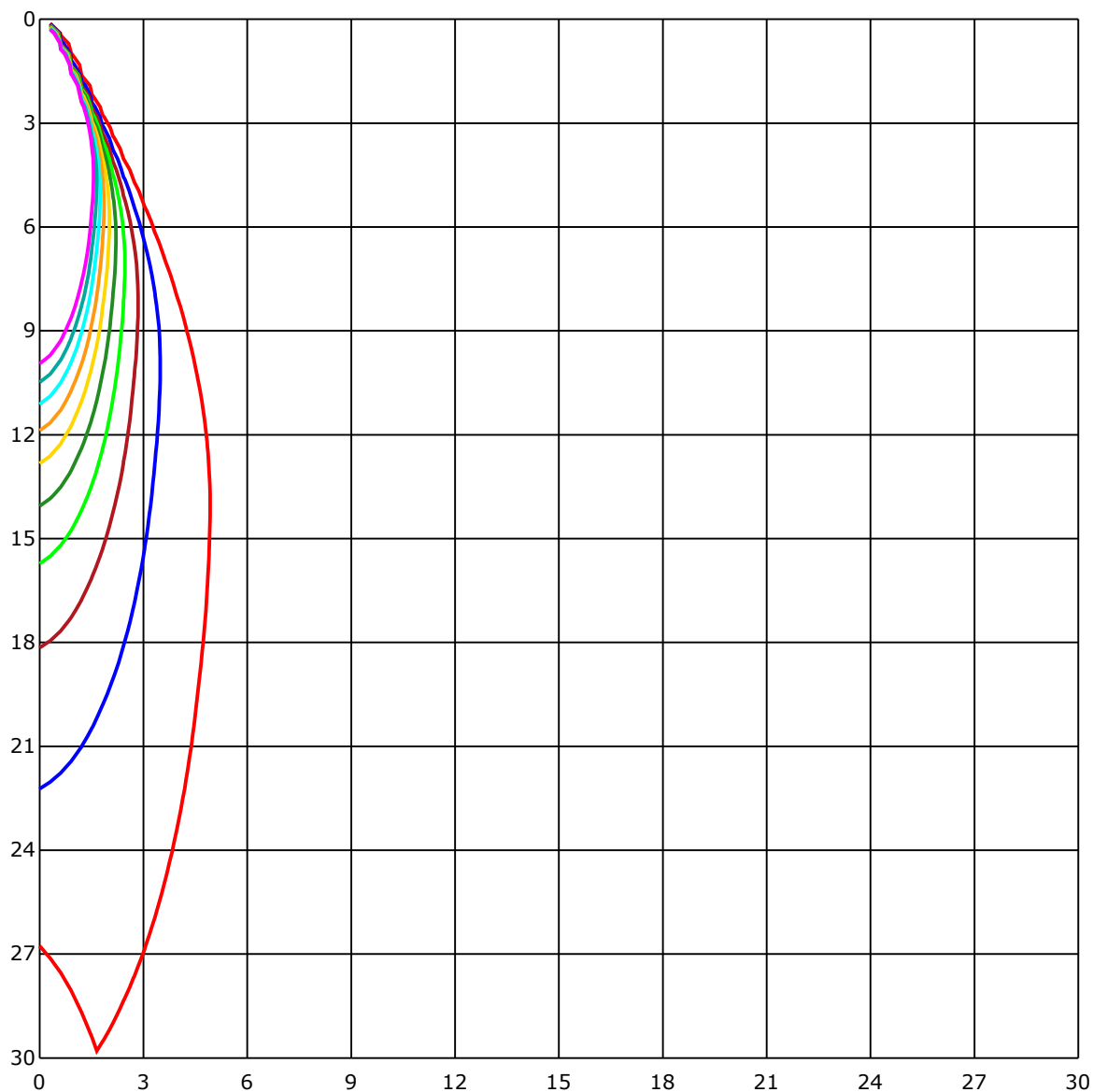
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

74.883	37.441
67.394	29.953
59.906	22.465
52.418	14.977
44.93	7.488

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	7401.23	7430.44	7338.27	7489.58	7401.23	7430.44	7338.27	7489.58	7401.23	
G1	7237.17	7486.09	7456.17	7524.32	7505.2	7319.53	7161.94	7392.59	7237.17	
G2	7016.91	7479.53	7516.25	7482.31	7533.99	7150.28	6928.74	7233.77	7016.91	
G3	6738.73	7404.67	7505.49	7374.0	7492.6	6917.27	6640.04	7015.87	6738.73	
G4	6410.38	7264.26	7425.11	7200.22	7385.32	6638.86	6309.94	6749.39	6410.38	
G5	6044.6	7061.69	7278.19	6973.48	7218.67	6323.49	5956.53	6439.4	6044.6	
G6	5673.92	6804.38	7078.54	6690.21	6997.18	5973.9	5593.21	6084.67	5673.92	
G7	5289.26	6506.56	6831.14	6367.62	6723.53	5613.08	5211.91	5719.18	5289.26	
G8	4890.17	6173.17	6543.14	6007.98	6411.79	5241.4	4833.34	5336.32	4890.17	
G9	4506.22	5812.82	6214.56	5623.04	6061.31	4864.4	4457.65	4948.03	4506.22	
G10	4132.47	5441.05	5861.1	5236.26	5685.2	4500.32	4095.04	4559.13	4132.47	
G11	3780.14	5067.2	5494.29	4848.96	5303.52	4151.91	3745.4	4202.46	3780.14	
G12	3442.16	4690.76	5123.84	4464.21	4920.75	3806.05	3415.83	3857.12	3442.16	
G13	3132.08	4315.07	4751.88	4094.52	4553.46	3487.05	3114.67	3516.97	3132.08	
G14	2853.01	3966.05	4387.42	3730.21	4190.05	3188.48	2838.66	3208.96	2853.01	
G15	2603.19	3627.7	4032.93	3387.7	3829.32	2908.75	2596.58	2926.35	2603.19	
G16	2381.27	3306.14	3695.94	3075.87	3492.85	2651.14	2354.13	2672.01	2381.27	
G17	2169.45	3018.1	3372.12	2795.94	3176.73	2420.68	2147.98	2440.03	2169.45	
G18	1982.36	2753.0	3071.06	2548.96	2897.47	2203.43	1958.15	2233.26	1982.36	
G19	1809.25	2516.87	2805.01	2310.15	2638.5	2012.24	1784.66	2044.0	1809.25	
G20	1645.38	2291.74	2562.41	2105.78	2409.92	1833.03	1612.67	1870.79	1645.38	
G21	1485.05	2095.73	2338.8	1919.64	2199.47	1664.87	1448.66	1705.93	1485.05	
G22	1326.0	1902.08	2127.64	1746.43	2006.86	1497.56	1285.12	1548.91	1326.0	
G23	1169.96	1730.81	1942.06	1584.87	1831.0	1335.53	1129.47	1386.74	1169.96	
G24	1015.87	1561.09	1764.93	1431.53	1673.46	1172.89	974.14	1232.55	1015.87	
G25	862.52	1396.6	1601.25	1277.95	1513.13	1022.29	826.94	1079.63	862.52	
G26	715.08	1234.2	1438.42	1127.49	1359.88	870.36	682.94	931.1	715.08	
G27	581.51	1074.34	1280.41	971.31	1204.51	727.92	555.22	779.55	581.51	
G28	457.01	914.11	1121.63	822.31	1053.25	594.49	437.28	640.18	457.01	
G29	350.77	770.06	966.45	679.4	903.73	477.21	337.93	511.57	350.77	
G30	264.49	630.22	814.9	549.14	760.91	371.63	258.78	398.63	264.49	
G31	195.54	505.05	675.43	431.85	624.93	287.05	196.43	304.37	195.54	
G32	142.72	395.09	544.98	331.04	500.38	219.32	146.69	228.43	142.72	
G33	103.88	303.33	429.4	248.59	387.77	166.51	109.45	170.38	103.88	
G34	75.99	229.66	331.89	183.74	297.34	126.91	81.41	128.09	75.99	
G35	56.78	172.41	254.58	135.5	224.04	97.74	61.54	96.8	56.78	
G36	44.22	128.94	194.31	99.92	168.49	76.74	47.15	75.52	44.22	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	36.34	96.66	148.86	73.72	126.82	61.88	37.71	61.07	36.34	
G38	31.2	72.78	113.98	56.16	96.52	51.73	31.62	51.59	31.2	
G39	27.28	55.41	88.78	43.47	75.23	44.51	27.42	44.65	27.28	
G40	24.4	43.04	70.75	35.73	61.07	39.08	24.07	39.5	24.4	
G41	21.95	35.4	58.05	30.35	51.54	35.02	21.38	35.59	21.95	
G42	19.87	30.16	48.66	26.52	44.6	31.76	19.26	32.71	19.87	
G43	18.12	26.57	42.48	23.55	39.74	29.31	17.7	29.73	18.12	
G44	16.71	23.32	37.66	21.19	35.82	26.9	16.14	27.37	16.71	
G45	15.24	20.77	33.89	19.26	32.66	25.2	14.73	25.3	15.24	
G46	13.92	18.69	30.73	17.56	30.11	23.22	13.22	23.74	13.92	
G47	12.74	17.23	28.08	16.05	27.85	21.57	12.32	21.85	12.74	
G48	11.61	15.81	26.01	14.77	25.72	20.11	11.0	20.44	11.61	
G49	10.57	14.4	23.98	13.64	23.83	18.6	10.05	18.97	10.57	
G50	9.72	13.07	22.37	12.51	22.28	17.27	8.97	17.65	9.72	
G51	8.68	12.08	20.72	11.47	20.53	15.95	8.17	16.28	8.68	
G52	7.79	10.76	19.35	10.62	19.11	14.77	7.27	15.1	7.79	
G53	6.94	9.72	17.93	9.63	17.84	13.78	6.32	13.92	6.94	
G54	6.14	8.97	16.57	8.92	16.61	12.6	5.57	12.98	6.14	
G55	5.29	8.07	15.29	8.07	15.53	11.66	4.86	11.75	5.29	
G56	4.63	7.27	14.21	7.22	14.3	10.57	4.11	10.76	4.63	
G57	3.82	6.61	13.17	6.37	13.17	9.63	3.49	9.68	3.82	
G58	3.11	5.62	12.27	5.57	12.22	8.59	2.64	8.73	3.11	
G59	2.22	4.86	11.19	4.86	11.19	7.69	2.08	7.74	2.22	
G60	1.75	4.11	10.19	4.25	10.24	6.94	1.56	6.99	1.75	
G61	1.09	3.49	9.49	3.54	9.2	6.37	0.94	6.18	1.09	
G62	0.76	2.83	8.5	2.93	8.4	5.71	0.42	5.38	0.76	
G63	0.14	2.36	7.6	2.31	7.6	4.96	0.0	4.77	0.14	
G64	0.0	1.7	6.84	1.65	6.75	4.25	0.0	4.11	0.0	
G65	0.0	1.32	6.14	1.13	5.95	3.3	0.0	3.35	0.0	
G66	0.0	0.8	5.47	0.66	5.33	2.41	0.0	2.5	0.0	
G67	0.0	0.33	4.77	0.0	4.86	1.79	0.0	1.84	0.0	
G68	0.0	0.0	3.96	0.0	3.87	1.56	0.0	1.65	0.0	
G69	0.0	0.0	2.88	0.0	2.69	1.56	0.0	1.46	0.0	
G70	0.0	0.0	2.03	0.0	1.94	1.32	0.0	1.37	0.0	
G71	0.0	0.0	1.65	0.0	1.6	1.09	0.0	1.23	0.0	
G72	0.0	0.0	1.51	0.0	1.51	1.04	0.0	1.18	0.0	
G73	0.0	0.0	1.51	0.0	1.32	1.04	0.0	1.11	0.0	

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Test Date: 2025/6/30 17:07:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Test Time: 2025/6/30 17:07:46

Remarks: