

Report No.:

Test Time: 2024/12/24 16:40:14

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL225CT115-20W
Lamp Type:
Luminous Width: 102 mm
Luminous Length: 102 mm
Luminous Height: 40 mm

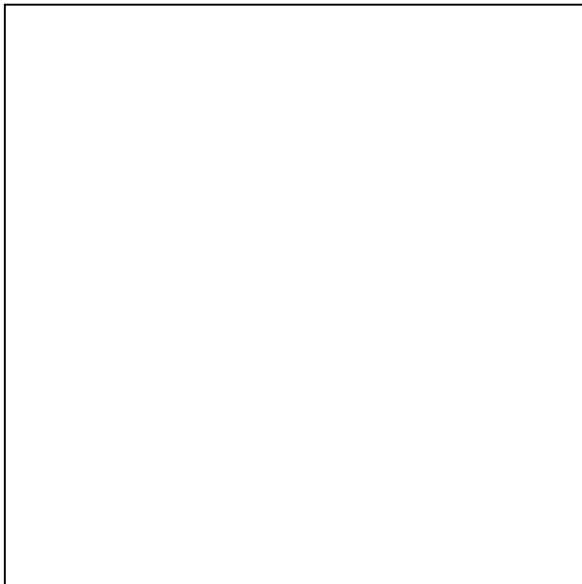
Voltage(V): 219.90 V
Current(A): 0.0920 A
Power(W): 19.74 W
Power Factor: 0.9660
Lamp Luminous Flux: 2092.55

Photometric Results

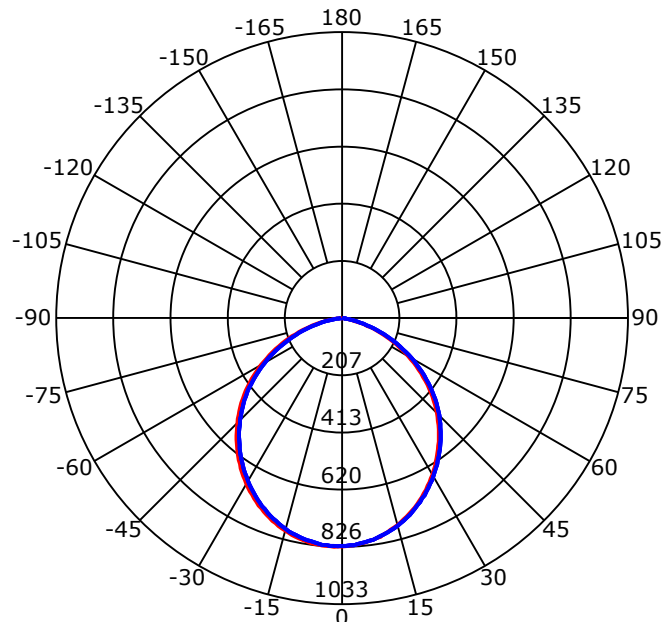
CIE Class: Direct
Luminaire Luminous Flux: 2092.545 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.01 lm/W
Beam Angle(50%) C0-180,C90-270: 105.0,105.1
Field Angle(10%) C0-180,C90-270: 152.1,151.9
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 826.00 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 825.26 cd
Effective Luminous Flux: 2054.17 lm
ERP(ϕ use)(120deg): 1741.79 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 105.0 deg,105.1 deg

C0-180 — C90-270

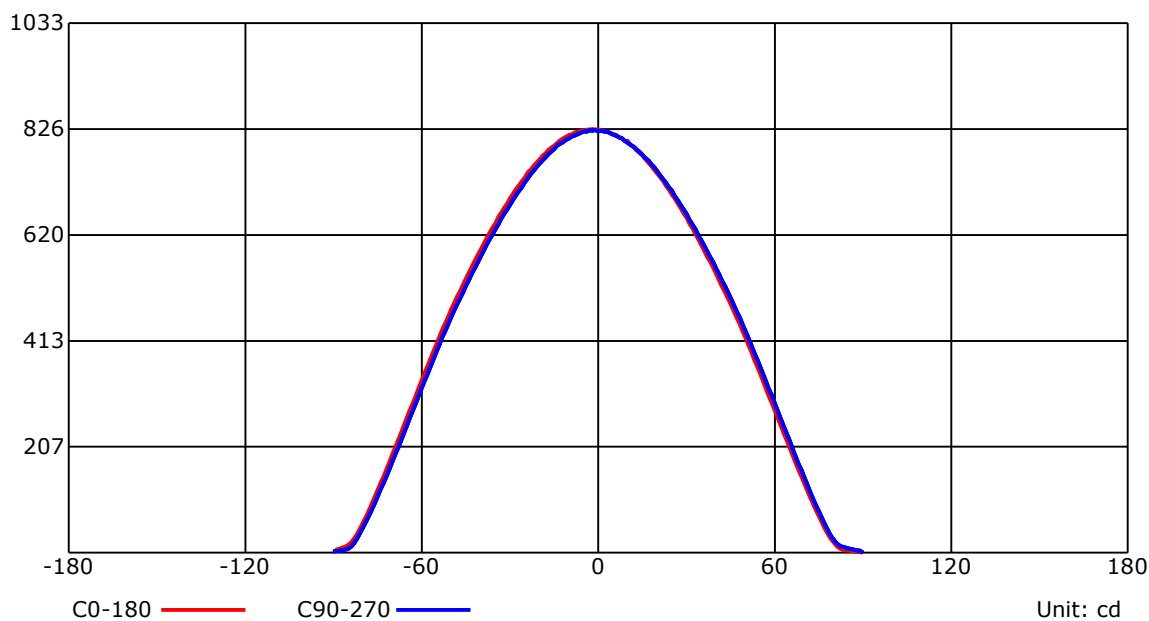
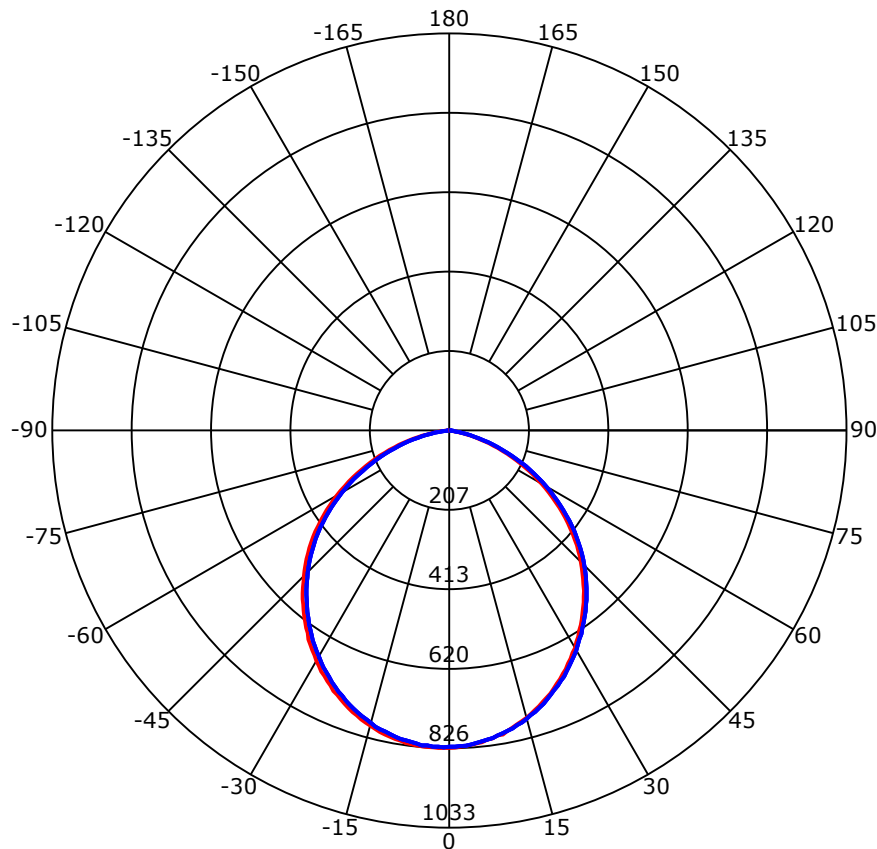
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 16:40:14

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



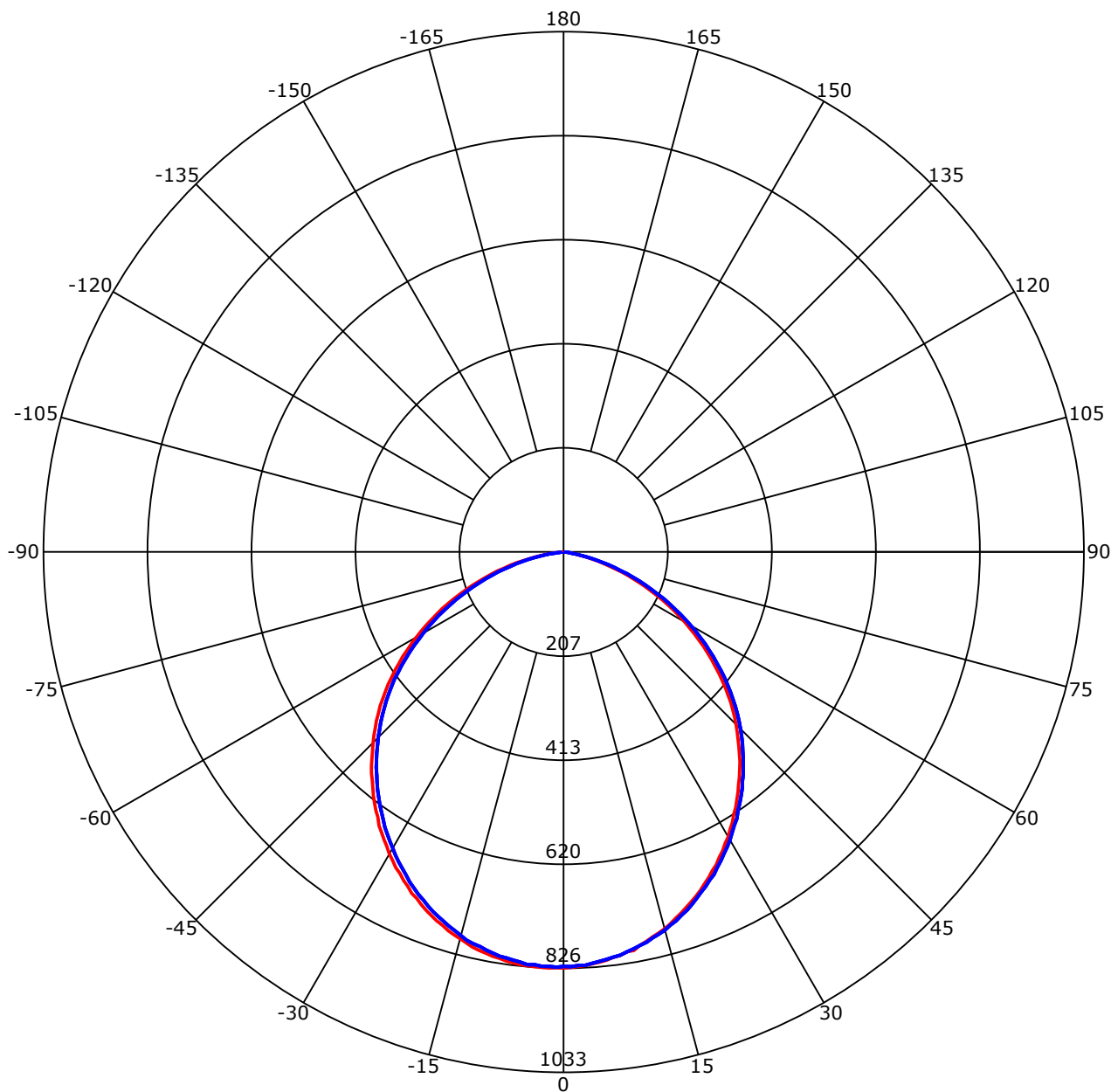
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Temperature: 25
Operators: QC01
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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: 2024/12/24 16:40:14

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

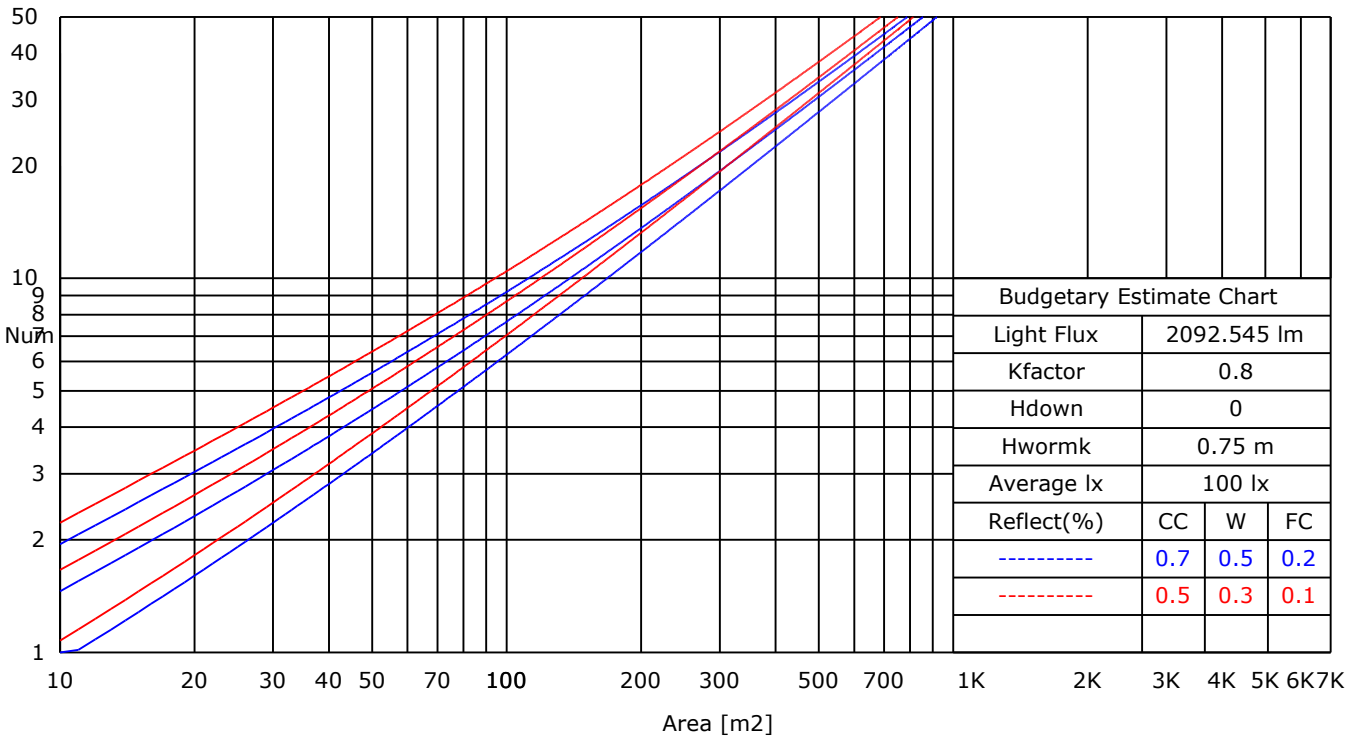
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UTILIZATION FACTORS TABLE

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	1.08	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.82
2	0.97	0.95	0.93	0.96	0.93	0.91	0.93	0.90	0.87	0.89	0.86	0.83	0.84	0.80	0.77	0.73
3	0.87	0.85	0.83	0.86	0.83	0.81	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.78	0.76	0.74	0.78	0.75	0.73	0.77	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.62	0.58
5	0.71	0.69	0.67	0.71	0.68	0.66	0.70	0.66	0.63	0.68	0.64	0.60	0.66	0.61	0.56	0.53
6	0.65	0.63	0.61	0.65	0.62	0.60	0.64	0.60	0.57	0.63	0.58	0.54	0.61	0.56	0.51	0.48
7	0.60	0.57	0.56	0.60	0.57	0.55	0.60	0.55	0.52	0.59	0.54	0.50	0.57	0.52	0.47	0.44
8	0.55	0.53	0.52	0.55	0.52	0.51	0.55	0.51	0.48	0.55	0.50	0.46	0.54	0.48	0.44	0.40
9	0.51	0.49	0.48	0.51	0.49	0.47	0.52	0.48	0.45	0.51	0.46	0.43	0.51	0.45	0.41	0.37
10	0.48	0.46	0.45	0.48	0.45	0.44	0.48	0.44	0.42	0.48	0.43	0.40	0.48	0.42	0.38	0.35

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



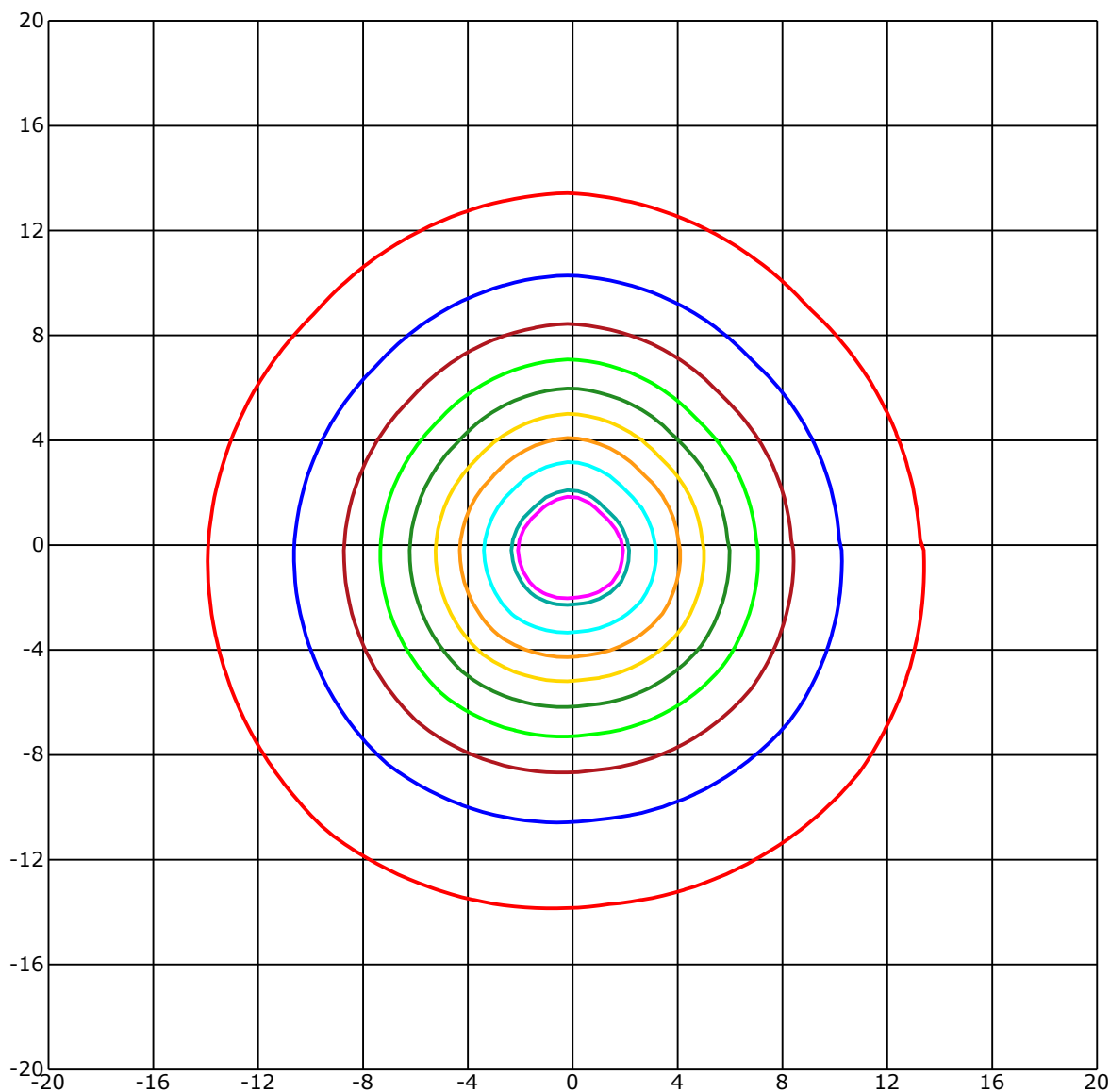
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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ISOLX DIAGRAM



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

7.592(92%Emax)	4.126(50%Emax)
7.427(90%Emax)	3.301(40%Emax)
6.602(80%Emax)	2.476(30%Emax)
5.777(70%Emax)	1.651(20%Emax)
4.952(60%Emax)	0.825(10%Emax)

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Test Date: 2024/12/24 16:40:14

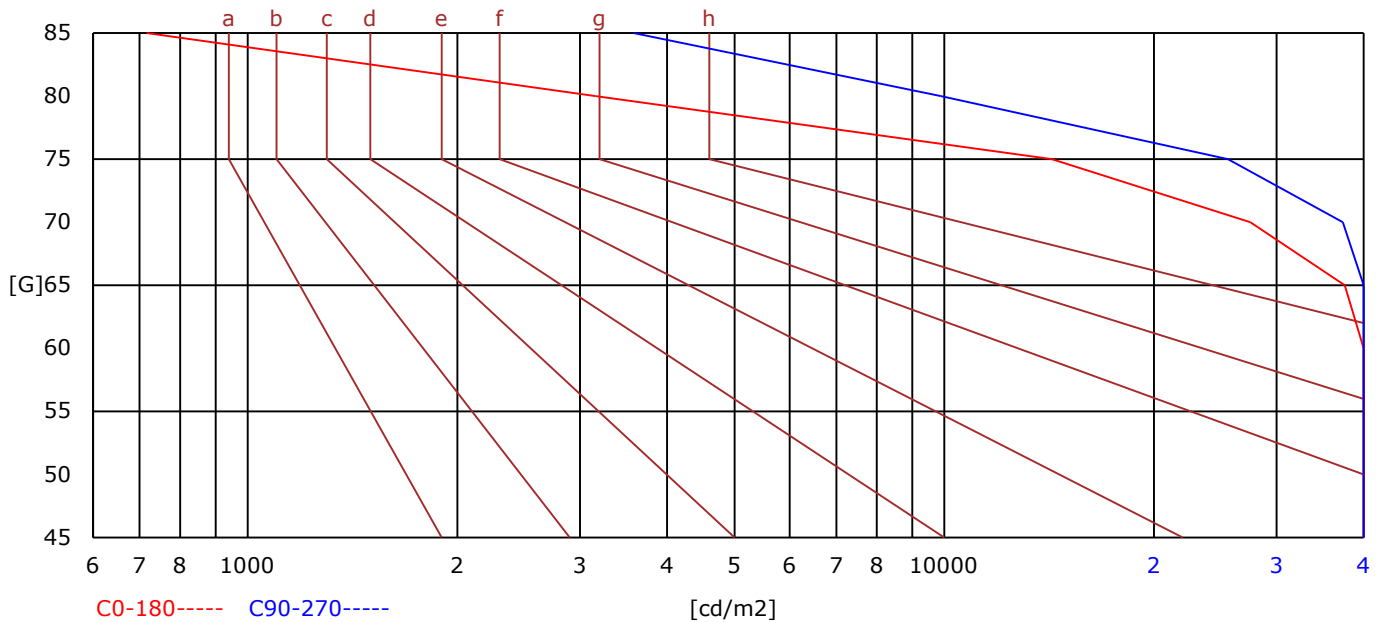
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	60700	56573	51579	45360	37580	27486	14277	3157	716
C90	65365	62266	57967	52848	45987	37326	25524	9883	3580
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



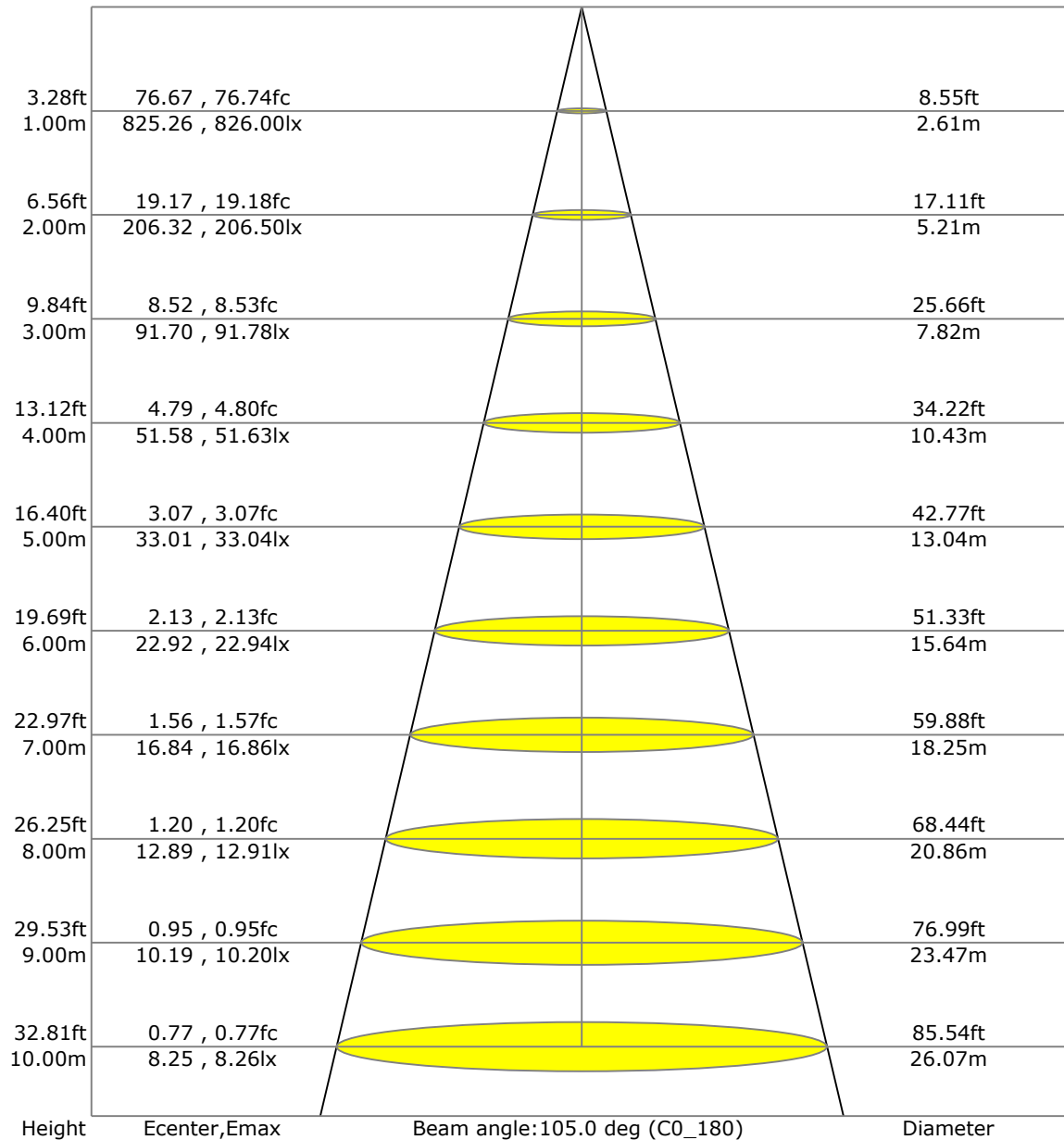
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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: 2024/12/24 16:40:14

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.81 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	20.00	20.08	20.20	20.26	20.51	20.08	20.15	20.28	20.34	20.59
	3H	20.06	20.14	20.27	20.33	20.58	20.13	20.21	20.34	20.40	20.65
	4H	20.05	20.12	20.26	20.32	20.57	20.12	20.19	20.33	20.38	20.63
	6H	20.02	20.09	20.24	20.29	20.54	20.09	20.16	20.31	20.36	20.61
	8H	20.01	20.07	20.23	20.28	20.53	20.07	20.14	20.29	20.34	20.60
	12H	19.99	20.06	20.21	20.26	20.52	20.06	20.12	20.28	20.33	20.59
4H	2H	21.32	21.39	21.53	21.59	21.84	21.49	21.56	21.70	21.76	22.01
	3H	21.41	21.47	21.63	21.68	21.94	21.57	21.64	21.80	21.84	22.10
	4H	21.39	21.45	21.62	21.67	21.93	21.55	21.62	21.78	21.83	22.09
	6H	21.36	21.42	21.60	21.64	21.90	21.52	21.58	21.76	21.80	22.06
	8H	21.34	21.40	21.58	21.62	21.89	21.50	21.56	21.75	21.78	22.05
	12H	21.32	21.37	21.57	21.60	21.87	21.48	21.53	21.73	21.77	22.04
8H	4H	21.35	21.42	21.57	21.62	21.88	21.55	21.62	21.77	21.82	22.07
	6H	21.38	21.43	21.64	21.67	21.94	21.58	21.62	21.83	21.86	22.14
	8H	21.36	21.41	21.62	21.65	21.93	21.55	21.60	21.82	21.84	22.12
	12H	21.34	21.38	21.61	21.63	21.92	21.53	21.57	21.80	21.83	22.11
12H	4H	21.40	21.46	21.65	21.69	21.96	21.60	21.66	21.85	21.89	22.16
	6H	21.37	21.41	21.63	21.66	21.93	21.56	21.61	21.83	21.85	22.13

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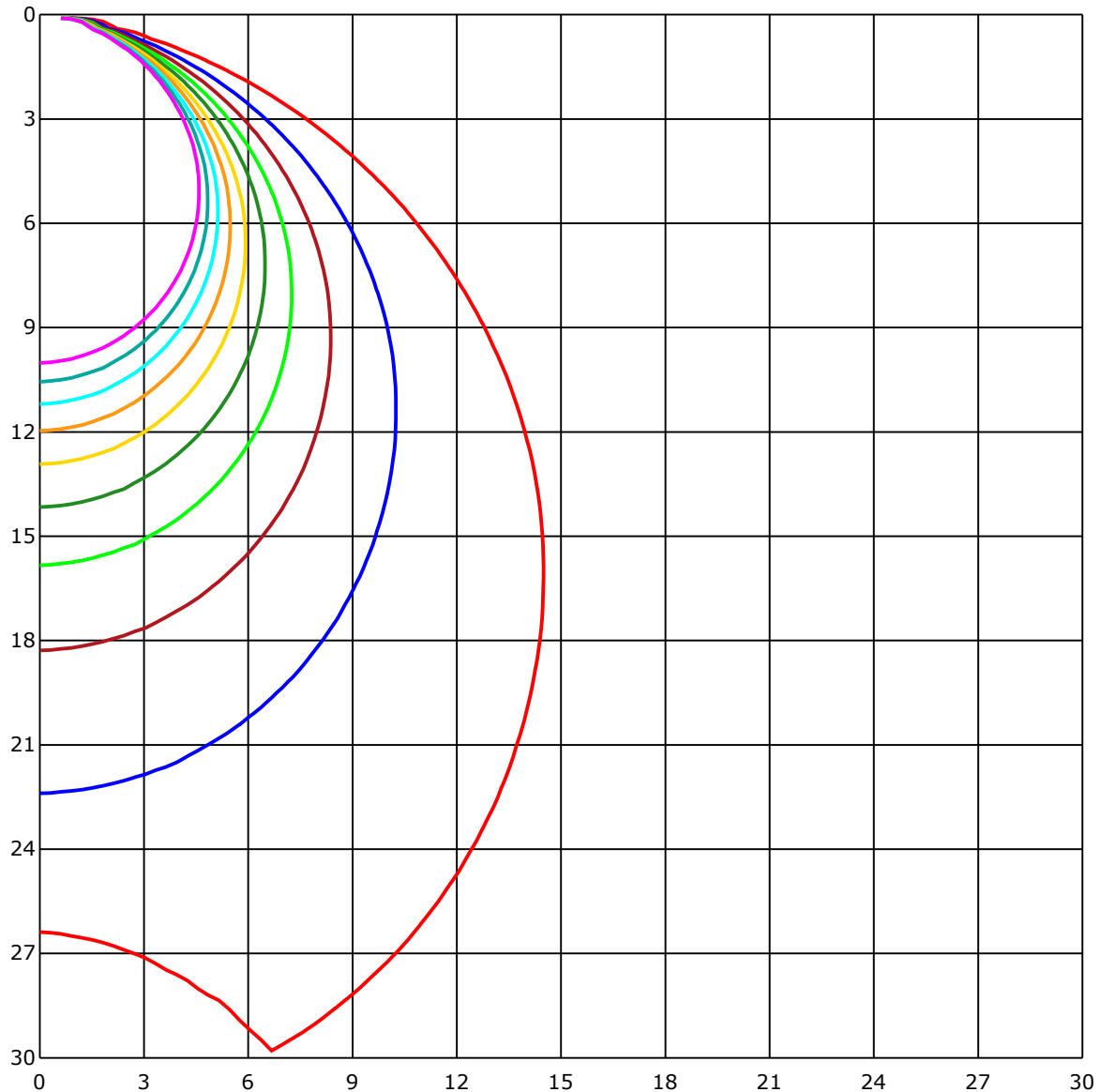
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	825.26	818.03	821.97	823.22	825.26	818.03	821.97	823.22	825.26	
G1	824.38	816.59	822.62	821.09	825.22	820.3	824.01	823.92	824.38	
G2	822.43	813.07	821.0	820.95	826.0	821.6	822.67	824.24	822.43	
G3	821.37	812.14	820.81	817.94	825.26	822.48	823.41	822.94	821.37	
G4	819.33	807.18	817.94	815.85	824.66	821.74	820.76	822.53	819.33	
G5	816.87	804.25	815.25	814.6	824.34	822.48	821.88	822.29	816.87	
G6	814.6	800.36	812.74	810.52	822.99	821.65	818.4	822.2	814.6	
G7	810.24	796.18	809.91	807.22	821.27	821.6	815.8	818.72	810.24	
G8	808.57	792.85	807.87	806.06	819.74	819.98	813.44	817.89	808.57	
G9	802.96	788.07	803.14	799.85	816.13	819.23	811.95	814.87	802.96	
G10	802.86	781.16	799.29	796.23	814.6	818.12	808.2	812.69	802.86	
G11	794.75	776.89	795.12	791.55	810.84	816.17	804.76	808.52	794.75	
G12	789.79	771.1	791.78	787.84	808.01	812.56	800.41	806.81	789.79	
G13	783.99	764.42	785.8	780.79	804.21	810.24	797.44	801.8	783.99	
G14	779.07	758.57	781.72	777.54	799.43	807.69	794.1	797.72	779.07	
G15	773.92	751.34	776.2	769.98	794.28	804.25	787.61	793.4	773.92	
G16	767.25	743.69	769.8	765.99	790.06	799.25	781.85	789.79	767.25	
G17	760.1	736.41	764.83	756.58	785.52	796.32	776.85	784.64	760.1	
G18	753.8	728.66	757.41	751.39	778.84	790.62	770.35	778.1	753.8	
G19	746.05	721.8	751.76	743.13	774.06	786.82	764.79	771.7	746.05	
G20	739.24	712.75	744.15	736.73	767.39	780.32	758.9	766.04	739.24	
G21	732.19	705.06	736.17	728.1	761.4	775.83	752.22	758.99	732.19	
G22	724.3	696.52	728.15	720.17	754.17	768.92	744.15	752.87	724.3	
G23	714.98	688.64	721.29	712.62	746.66	763.91	737.98	745.45	714.98	
G24	707.61	677.97	712.24	705.15	741.51	756.39	729.91	740.9	707.61	
G25	697.91	669.76	705.98	694.95	731.86	750.18	722.54	730.61	697.91	
G26	690.54	659.89	695.83	685.58	725.04	742.57	713.26	723.42	690.54	
G27	679.87	651.68	687.06	676.49	715.95	735.94	705.15	715.44	679.87	
G28	671.53	639.76	677.55	668.56	709.32	727.83	697.08	707.19	671.53	
G29	660.95	630.39	669.39	657.8	700.14	720.68	688.27	698.19	660.95	
G30	652.88	619.54	660.35	648.43	691.65	711.97	678.44	689.38	652.88	
G31	641.43	609.47	649.59	637.58	681.08	704.59	669.58	680.24	641.43	
G32	632.15	598.02	639.16	629.28	672.73	695.41	660.58	672.82	632.15	
G33	620.42	588.79	630.95	617.17	663.22	686.97	651.31	661.79	620.42	
G34	610.63	576.5	618.89	607.57	654.97	676.86	640.08	652.14	610.63	
G35	599.5	565.83	609.43	596.03	642.73	669.25	630.44	641.98	599.5	
G36	588.65	554.01	598.72	586.43	634.1	659.28	620.7	632.71	588.65	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	577.2	543.57	588.47	574.23	623.43	649.45	609.75	621.9	577.2	
G38	566.76	531.33	576.18	563.05	613.37	638.69	599.97	611.65	566.76	
G39	555.45	520.53	566.86	552.71	601.96	630.16	588.33	601.27	555.45	
G40	543.99	507.82	554.47	541.95	591.2	619.17	577.43	590.55	543.99	
G41	531.56	496.13	543.62	529.34	581.19	609.24	566.67	579.65	531.56	
G42	519.55	484.31	531.24	516.63	569.87	598.16	555.26	568.66	519.55	
G43	507.54	471.64	520.29	504.71	557.72	587.68	544.13	557.81	507.54	
G44	495.95	459.4	508.47	494.0	546.26	575.71	531.38	547.05	495.95	
G45	483.66	446.56	496.55	480.87	535.13	565.37	520.9	533.84	483.66	
G46	471.78	432.83	484.03	469.0	523.12	554.06	507.96	523.08	471.78	
G47	458.61	420.17	471.46	455.92	510.97	542.46	496.46	510.51	458.61	
G48	445.81	406.39	458.94	444.05	499.8	531.19	484.03	499.42	445.81	
G49	431.67	392.25	445.35	429.35	487.23	519.32	471.92	486.76	431.67	
G50	418.73	378.34	431.99	416.41	475.45	506.8	459.54	475.45	418.73	
G51	404.45	364.98	418.87	402.78	461.58	495.95	446.74	461.4	404.45	
G52	391.28	350.28	405.14	389.05	449.11	483.15	433.52	449.43	391.28	
G53	376.39	336.09	390.95	374.86	435.75	471.41	420.4	436.12	376.39	
G54	362.38	321.57	376.53	360.39	421.7	458.34	405.42	421.42	362.38	
G55	348.61	307.8	362.57	345.92	407.83	444.79	392.25	408.25	348.61	
G56	334.14	293.0	348.38	332.98	394.2	430.79	377.83	394.71	334.14	
G57	319.44	278.72	334.19	317.72	380.52	417.66	364.24	380.05	319.44	
G58	305.06	264.71	319.44	303.58	365.72	403.29	349.49	366.7	305.06	
G59	290.64	250.43	305.76	289.29	351.58	390.3	335.25	351.25	290.64	
G60	276.22	235.96	290.59	274.92	337.53	376.02	321.53	337.34	276.22	
G61	261.56	222.1	276.26	259.8	322.73	361.83	307.29	322.55	261.56	
G62	247.97	207.63	261.47	245.79	308.08	346.94	292.54	308.26	247.97	
G63	232.99	193.71	247.18	231.6	293.75	333.4	278.58	293.47	232.99	
G64	218.94	179.29	232.48	217.09	279.37	318.74	263.6	279.51	218.94	
G65	204.1	165.24	218.66	202.2	265.13	304.78	248.67	264.76	204.1	
G66	189.72	151.46	203.36	188.15	250.34	289.8	234.52	250.43	189.72	
G67	175.72	137.46	188.98	173.96	235.41	275.38	219.96	235.68	175.72	
G68	161.81	124.01	174.56	159.81	221.17	260.36	205.72	221.03	161.81	
G69	147.85	110.79	161.06	146.32	206.23	245.89	191.9	206.47	147.85	
G70	134.17	97.81	146.83	132.82	192.46	230.54	177.25	191.86	134.17	
G71	120.76	85.24	132.82	119.19	177.67	216.48	163.24	177.48	120.76	
G72	107.82	72.76	118.95	106.48	163.89	201.92	149.61	163.61	107.82	
G73	95.02	60.52	105.88	93.08	149.66	187.45	136.44	149.56	95.02	

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

[illegible]

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