

Report No.:

Test Time: 2025/3/6 17:37:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL141CT165-15W
Lamp Type:
Luminous Width: 143 mm
Luminous Length: 143 mm
Luminous Height: 60 mm

Voltage(V): 220.30 V
Current(A): 0.0710 A
Power(W): 14.60 W
Power Factor: 0.9300
Lamp Luminous Flux: 1443.87

Photometric Results

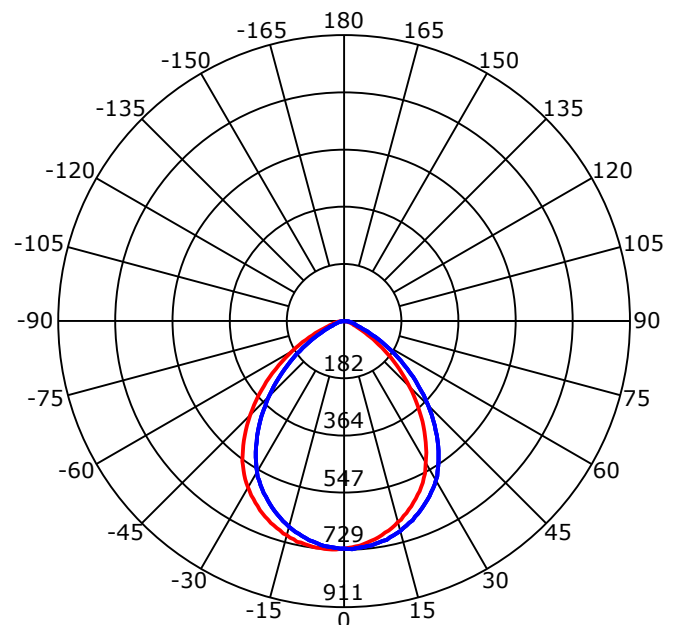
CIE Class: Direct
Luminaire Luminous Flux: 1443.873 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.91 lm/W
Beam Angle(50%) C0-180,C90-270: 89.3,89.2
Field Angle(10%) C0-180,C90-270: 131.1,130.9
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 728.76 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 725.17 cd
Effective Luminous Flux: 1377.53 lm
ERP(ϕ use)(120deg): 1318.59 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 89.3 deg,89.2 deg

C0-180 — C90-270 —

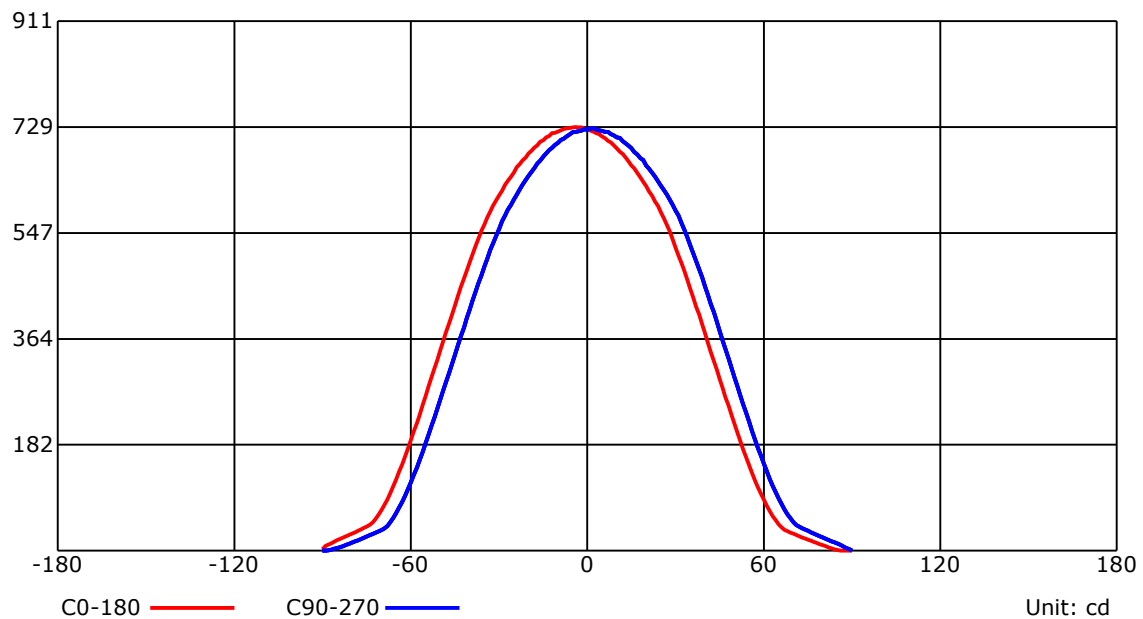
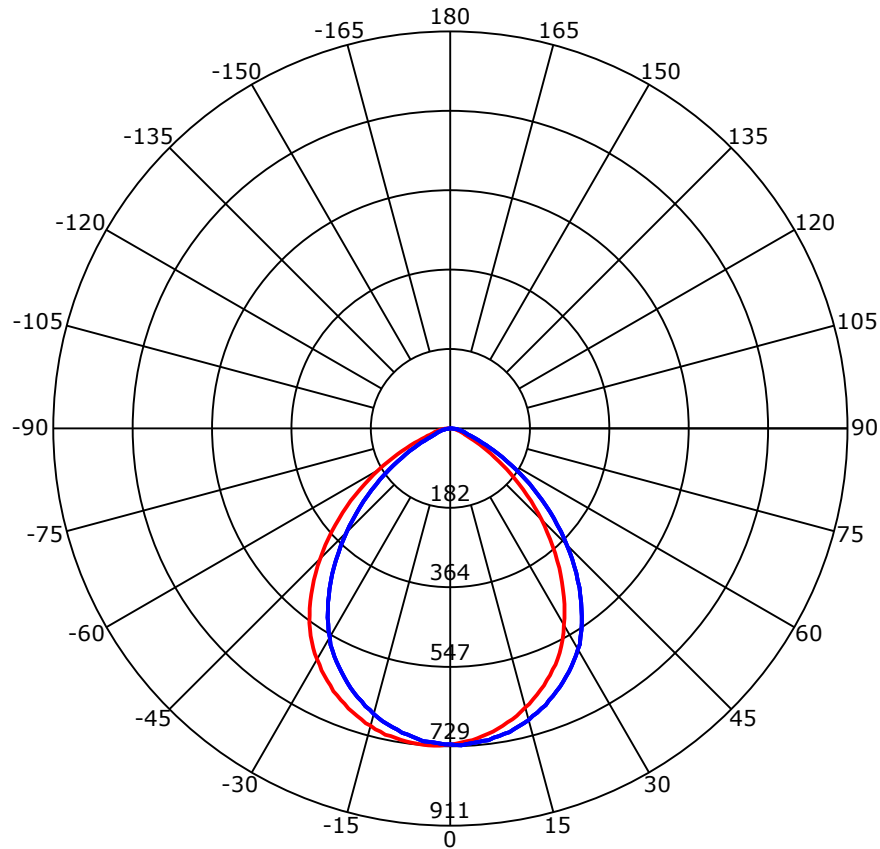
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/6 17:37:42

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: 2025/3/6 17:37:42

Luminous Intensity Distribution Curve



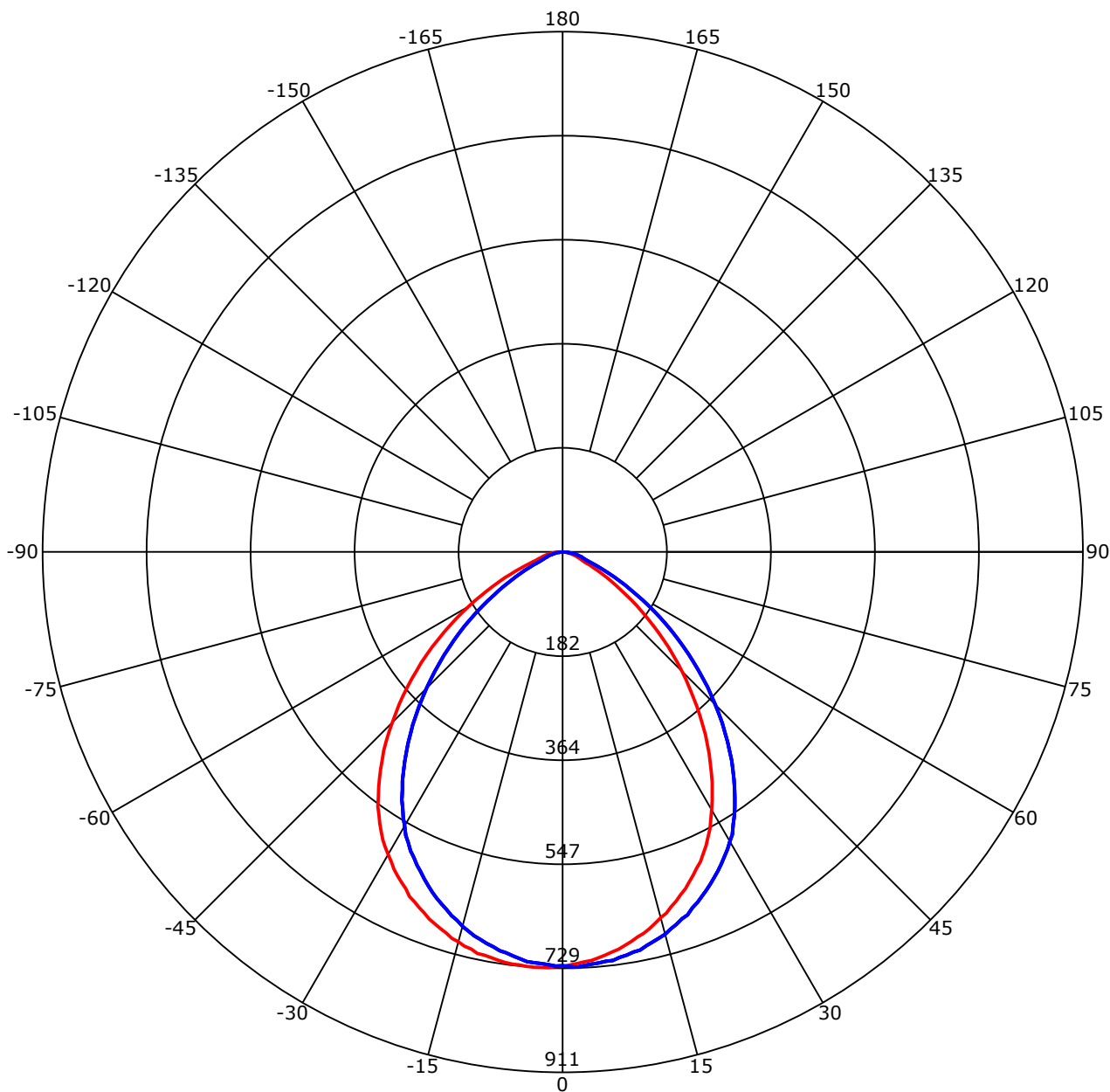
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/3/6 17:37:42

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

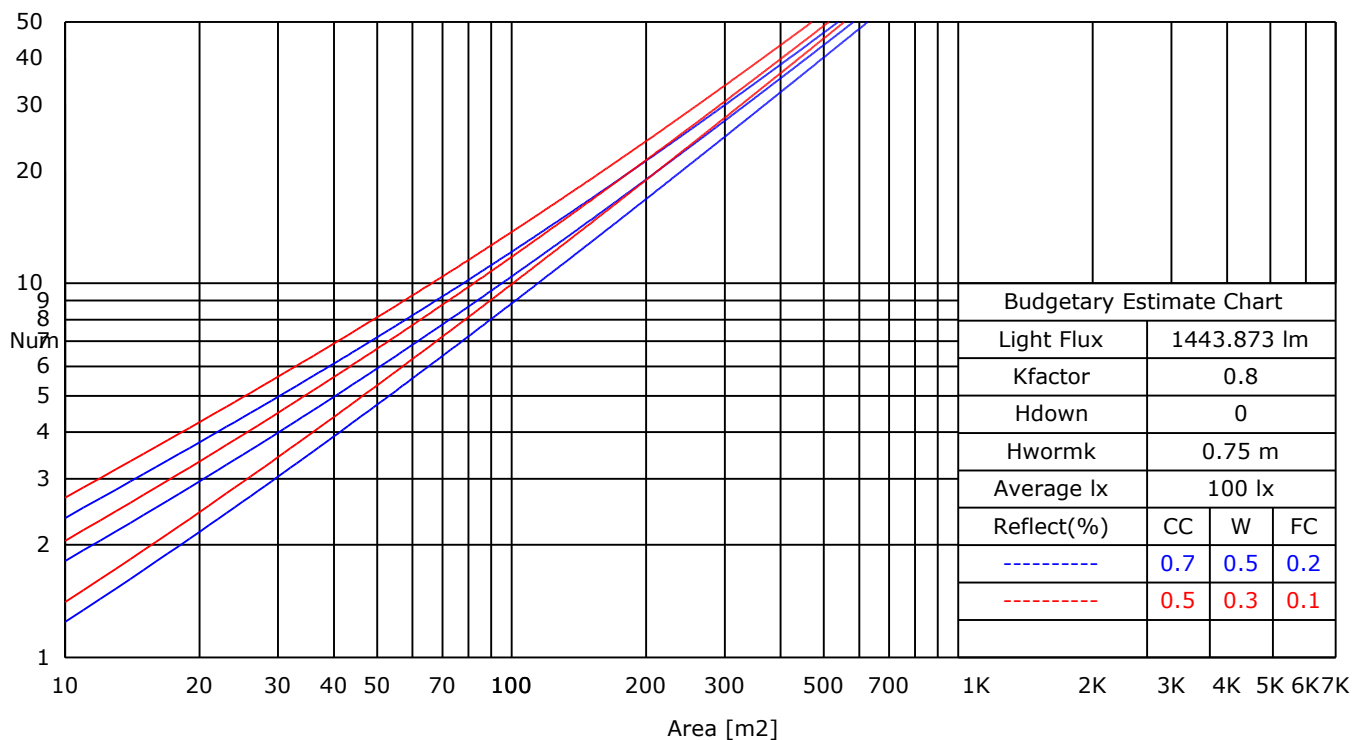
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UTILIZATION FACTORS TABLE

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	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	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.80	0.75
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.84	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.68
4	0.84	0.82	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.78	0.74	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	0.72	0.70	0.68	0.71	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.53
7	0.67	0.65	0.63	0.66	0.64	0.62	0.66	0.62	0.59	0.64	0.60	0.56	0.62	0.57	0.53	0.50
8	0.62	0.60	0.59	0.62	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.53	0.59	0.54	0.50	0.46
9	0.58	0.57	0.56	0.58	0.56	0.54	0.58	0.54	0.52	0.57	0.53	0.49	0.56	0.51	0.47	0.44
10	0.55	0.53	0.52	0.55	0.53	0.51	0.55	0.51	0.49	0.54	0.50	0.46	0.53	0.48	0.44	0.41

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



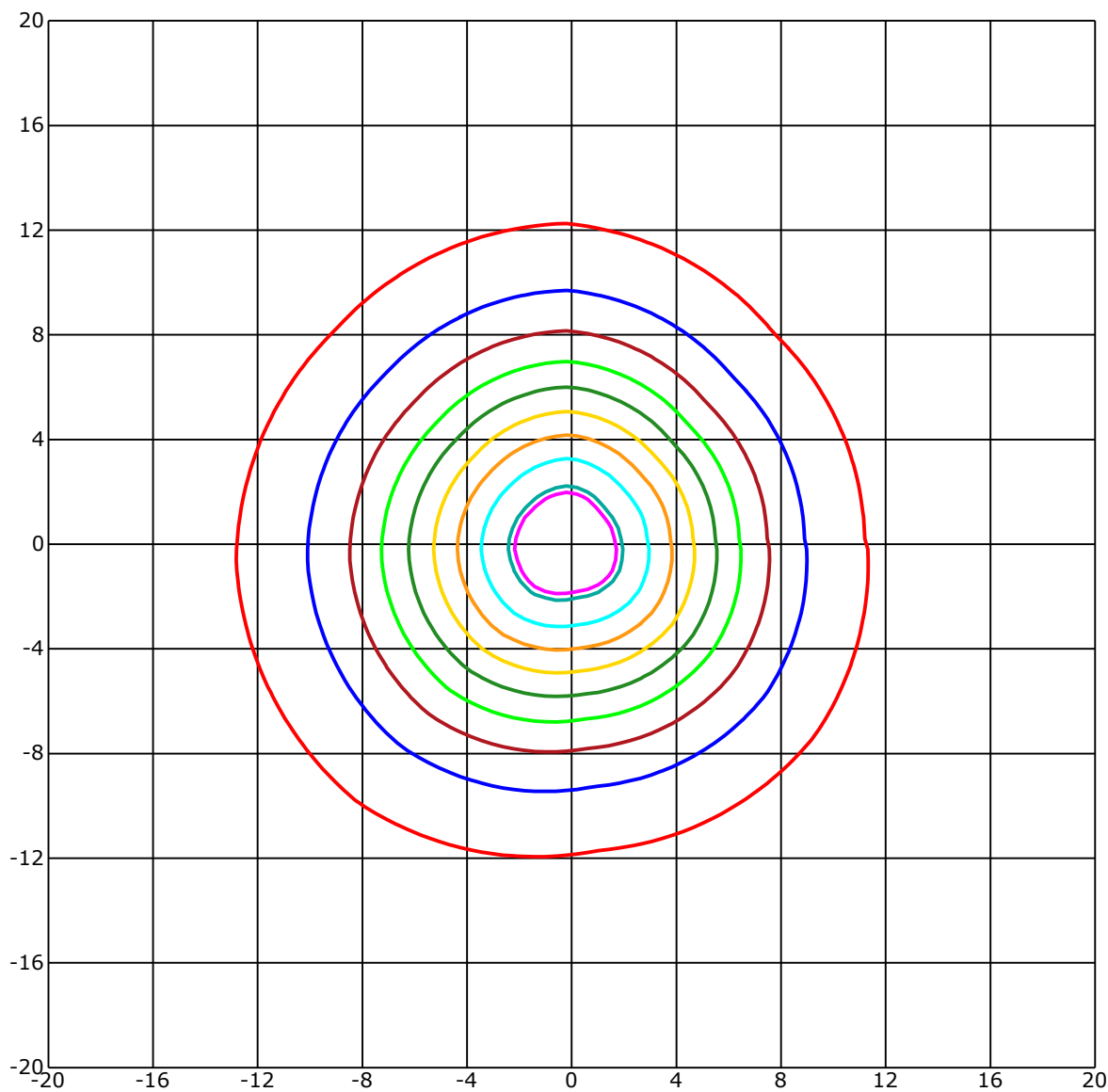
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

6.693(92%Emax)	3.637(50%Emax)
6.547(90%Emax)	2.91(40%Emax)
5.82(80%Emax)	2.182(30%Emax)
5.092(70%Emax)	1.455(20%Emax)
4.365(60%Emax)	0.727(10%Emax)

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Operators: QC01
Test Date: 2025/3/6 17:37:42

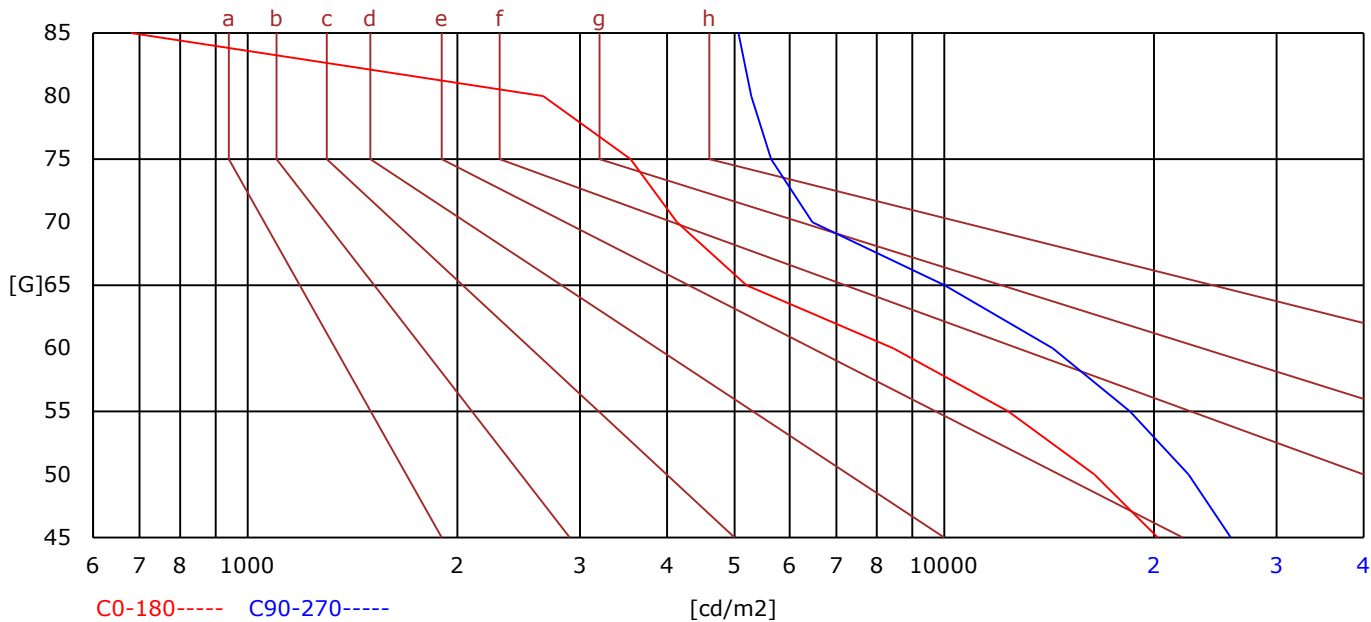
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	20257	16419	12362	8454	5201	4135	3547	2656	680
C90	25788	22421	18469	14318	10013	6465	5642	5286	5064
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



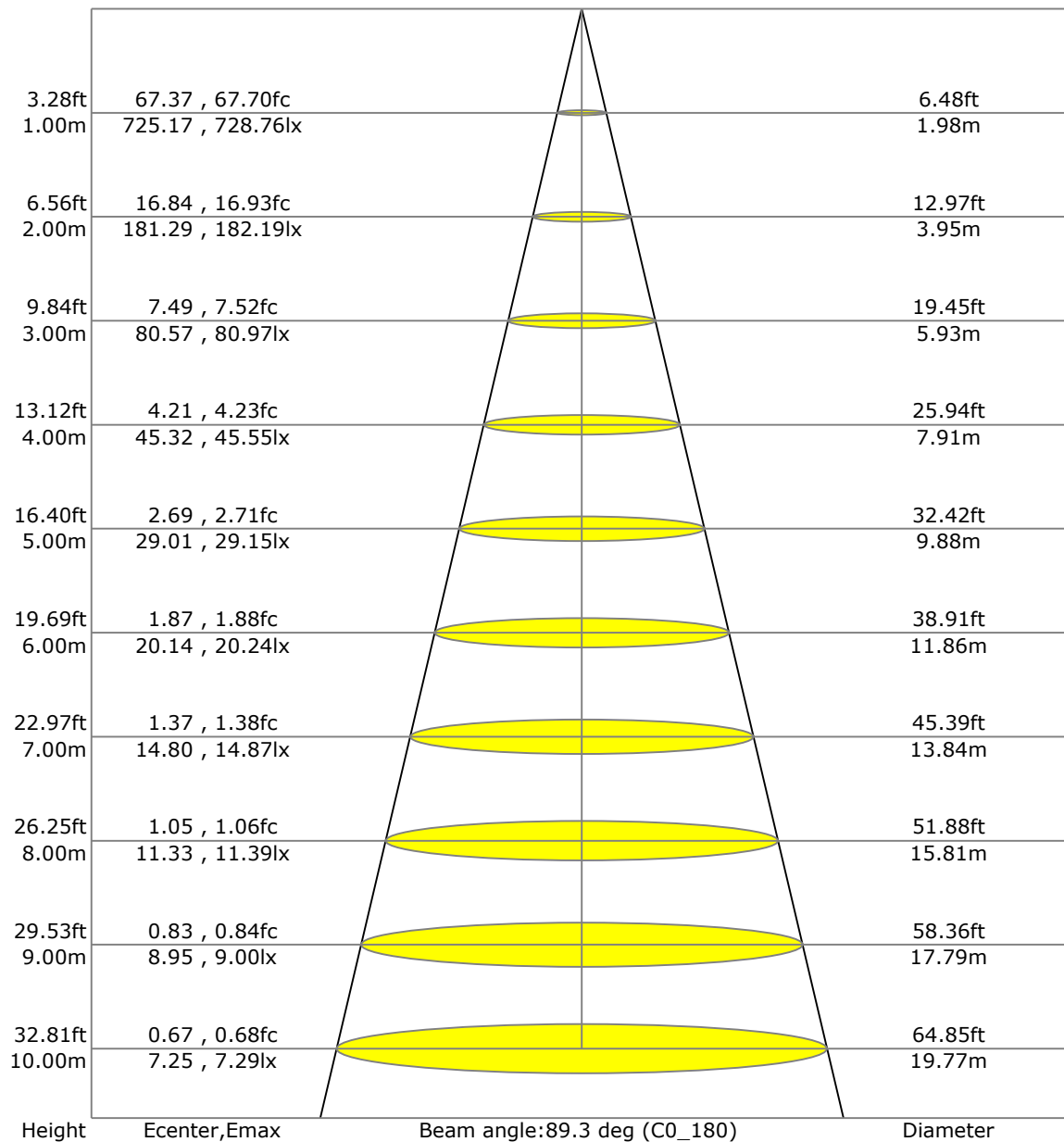
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/6 17:37:42

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 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: 2025/3/6 17:37:42

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

UGR(Unified Glare Rating) TABLE

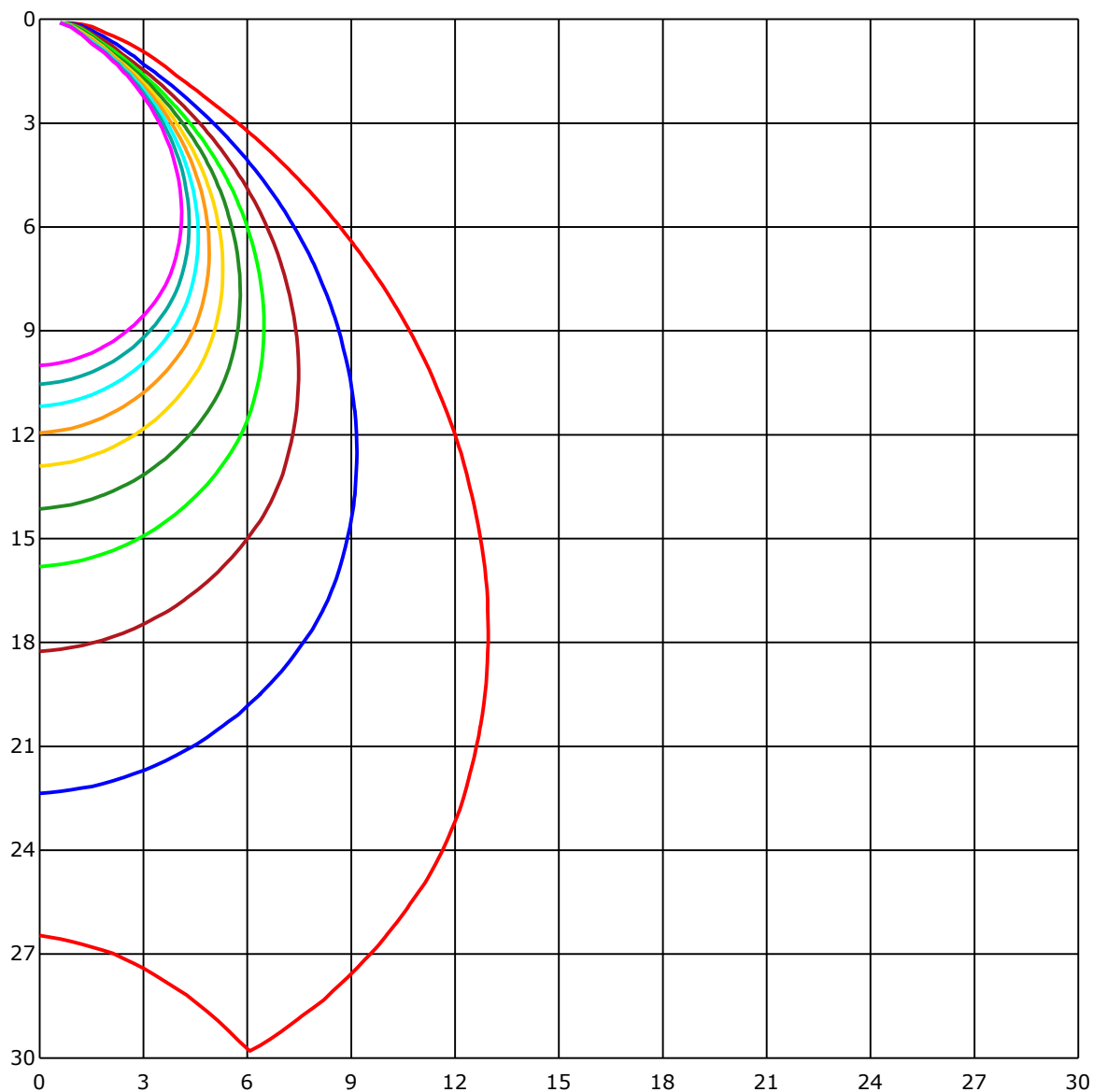
RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H 2H		15.38	15.45	15.58	15.64	15.88	16.05	16.12	16.25	16.30	16.55
3H		15.38	15.45	15.59	15.64	15.89	16.03	16.09	16.23	16.28	16.53
4H		15.37	15.43	15.58	15.63	15.88	16.01	16.07	16.22	16.27	16.51
6H		15.34	15.41	15.56	15.61	15.86	15.98	16.04	16.20	16.24	16.50
8H		15.33	15.39	15.55	15.59	15.85	15.97	16.03	16.19	16.23	16.48
12H		15.32	15.38	15.54	15.58	15.84	15.95	16.01	16.18	16.22	16.47
4H 2H		15.71	15.77	15.92	15.97	16.22	16.67	16.74	16.88	16.93	17.18
3H		15.75	15.81	15.97	16.01	16.27	16.68	16.74	16.91	16.95	17.21
4H		15.74	15.80	15.97	16.01	16.27	16.67	16.73	16.90	16.94	17.20
6H		15.72	15.78	15.96	16.00	16.26	16.64	16.69	16.88	16.92	17.18
8H		15.71	15.76	15.95	15.99	16.25	16.62	16.68	16.87	16.90	17.17
12H		15.69	15.74	15.94	15.97	16.24	16.61	16.65	16.85	16.89	17.16
8H 4H		15.74	15.80	15.96	16.01	16.26	16.82	16.89	17.04	17.09	17.34
6H		15.78	15.82	16.03	16.06	16.34	16.85	16.90	17.11	17.14	17.41
8H		15.76	15.81	16.03	16.05	16.33	16.83	16.88	17.09	17.12	17.40
12H		15.75	15.79	16.02	16.04	16.32	16.81	16.85	17.08	17.11	17.39
12H 4H		15.78	15.83	16.03	16.06	16.33	16.93	16.98	17.18	17.21	17.48
6H		15.76	15.81	16.03	16.05	16.33	16.92	16.96	17.18	17.20	17.48

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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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: 6.87 m
Remarks:

Report No.:

Test Time: 2025/3/6 17:37:42

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	725.17	722.25	724.54	727.46	725.17	722.25	724.54	727.46	725.17	
G1	722.92	721.04	725.93	725.93	725.98	724.58	724.81	726.56	722.92	
G2	720.95	718.3	727.28	726.2	728.04	724.58	722.92	726.07	720.95	
G3	718.52	717.53	724.58	725.57	728.49	725.84	721.44	723.78	718.52	
G4	716.82	713.18	723.24	726.78	728.76	726.2	720.81	723.51	716.82	
G5	713.09	710.93	722.07	723.82	728.04	726.69	719.73	720.45	713.09	
G6	709.68	706.26	720.63	722.56	726.92	725.75	716.14	718.43	709.68	
G7	705.36	703.97	720.27	719.91	726.65	725.84	712.64	716.32	705.36	
G8	702.13	698.67	716.46	717.49	725.39	722.92	708.87	712.59	702.13	
G9	697.24	694.77	714.3	714.21	723.19	722.47	706.58	708.96	697.24	
G10	692.39	688.88	711.29	712.73	721.17	720.09	701.64	705.81	692.39	
G11	686.59	684.66	710.03	707.7	718.84	717.8	697.82	701.32	686.59	
G12	682.51	679.23	704.47	706.62	718.48	714.57	693.24	698.36	682.51	
G13	676.45	673.12	700.47	700.29	713.18	713.13	689.38	692.66	676.45	
G14	669.62	666.25	696.79	695.22	710.93	708.24	683.72	688.75	669.62	
G15	662.75	661.31	692.48	691.0	706.17	705.68	678.2	682.28	662.75	
G16	657.9	653.5	686.1	686.15	703.66	700.56	671.24	676.9	657.9	
G17	649.37	646.31	681.43	680.31	697.51	697.19	665.98	671.28	649.37	
G18	642.5	638.32	675.32	674.92	693.33	693.38	658.17	665.04	642.5	
G19	634.42	631.54	671.96	668.77	688.17	686.1	651.84	657.23	634.42	
G20	627.5	622.74	662.97	662.75	683.9	680.58	645.19	650.67	627.5	
G21	618.34	615.02	657.27	654.58	676.58	675.77	637.74	643.85	618.34	
G22	610.3	606.21	650.13	648.38	671.33	668.68	629.43	635.99	610.3	
G23	600.56	598.63	643.53	641.02	664.91	663.06	621.3	627.77	600.56	
G24	593.28	588.57	635.76	634.68	659.83	656.28	612.41	620.09	593.28	
G25	582.46	579.86	627.99	624.13	650.36	649.55	604.55	611.83	582.46	
G26	572.31	568.9	620.58	615.91	643.62	641.96	595.03	602.89	572.31	
G27	560.41	558.08	612.37	607.61	636.44	634.68	586.86	593.96	560.41	
G28	549.05	545.05	603.61	599.84	628.85	626.02	576.13	586.05	549.05	
G29	535.22	533.47	594.94	590.59	619.46	617.85	567.1	573.16	535.22	
G30	521.34	519.77	585.24	580.44	611.56	608.91	553.59	561.62	521.34	
G31	507.87	506.08	576.89	569.3	603.25	600.56	542.27	549.46	507.87	
G32	494.04	491.39	563.15	558.21	594.09	591.58	528.8	536.52	494.04	
G33	480.44	477.38	551.66	545.86	583.58	583.0	517.35	523.23	480.44	
G34	465.48	462.7	538.54	533.74	573.34	571.41	502.31	510.34	465.48	
G35	450.17	448.42	525.07	520.76	561.44	560.86	489.06	495.61	450.17	
G36	435.67	432.84	511.69	507.11	550.8	548.29	474.33	482.77	435.67	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/3/6 17:37:42

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	419.82	418.11	498.62	492.83	536.52	536.03	460.27	467.37	419.82	
G38	405.98	402.3	483.71	479.45	523.72	522.29	445.1	452.69	405.98	
G39	389.64	387.84	470.42	464.81	510.25	510.03	430.91	437.64	389.64	
G40	373.88	371.36	454.3	450.08	496.38	495.12	415.06	422.82	373.88	
G41	357.62	355.87	439.98	434.63	481.96	481.74	400.6	407.69	357.62	
G42	341.64	339.66	423.99	419.9	468.27	466.74	383.67	392.02	341.64	
G43	325.74	324.62	409.67	404.14	453.18	452.01	368.35	376.21	325.74	
G44	311.06	307.96	393.77	388.74	438.05	436.12	353.04	360.23	311.06	
G45	295.07	292.91	377.47	372.89	422.11	421.61	337.46	344.91	295.07	
G46	279.85	277.06	361.71	357.35	406.75	405.89	321.74	328.97	279.85	
G47	263.37	261.62	346.8	342.26	391.61	390.72	306.21	313.35	263.37	
G48	249.13	246.17	329.96	326.14	376.3	374.64	290.44	297.49	249.13	
G49	233.37	231.08	314.33	310.25	360.32	359.19	275.31	280.97	233.37	
G50	218.24	215.81	298.3	294.71	344.78	343.34	259.95	265.75	218.24	
G51	203.15	201.22	283.35	278.81	328.52	327.76	244.55	250.07	203.15	
G52	188.82	186.85	267.0	263.55	313.88	312.0	229.33	235.12	188.82	
G53	173.96	172.34	251.83	247.29	297.49	296.87	213.93	219.45	173.96	
G54	159.86	158.2	236.42	231.98	282.27	280.43	198.93	204.5	159.86	
G55	146.48	145.0	221.65	216.62	265.61	264.8	184.92	189.68	146.48	
G56	133.41	131.98	205.53	201.89	250.52	248.68	170.05	174.9	133.41	
G57	120.84	119.67	191.03	187.03	234.49	233.55	156.58	161.03	120.84	
G58	109.25	108.0	176.79	173.15	219.58	218.55	142.53	147.24	109.25	
G59	97.8	96.99	162.91	159.5	204.86	203.55	130.13	134.45	97.8	
G60	87.79	86.44	149.17	146.39	190.31	188.29	117.65	122.23	87.79	
G61	77.51	76.47	136.47	132.65	175.58	174.14	106.11	110.33	77.51	
G62	68.3	67.45	123.67	120.26	161.88	159.95	94.52	99.1	68.3	
G63	59.72	59.32	111.9	108.71	148.1	146.79	83.88	88.46	59.72	
G64	52.45	51.91	100.5	97.62	135.43	133.68	73.73	78.9	52.45	
G65	45.35	44.95	89.99	86.53	122.59	121.33	64.75	70.01	45.35	
G66	40.1	39.38	80.29	76.56	110.69	108.98	56.49	61.74	40.1	
G67	35.83	35.38	71.17	67.4	99.24	97.62	49.31	54.33	35.83	
G68	33.54	33.14	62.73	59.72	88.51	86.94	42.66	48.59	33.54	
G69	31.21	31.12	55.59	52.27	78.49	77.24	38.21	43.47	31.21	
G70	29.14	28.92	49.44	45.22	69.6	68.39	35.21	40.64	29.14	
G71	27.03	26.9	44.28	39.92	61.7	60.8	33.18	38.08	27.03	
G72	25.06	24.88	41.27	36.42	54.87	53.75	30.89	35.7	25.06	
G73	22.9	22.9	38.8	34.13	48.86	48.23	28.65	33.18	22.9	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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