

Report No.:

Test Time: 2023/7/18 9:26:18

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL141CT110-10W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

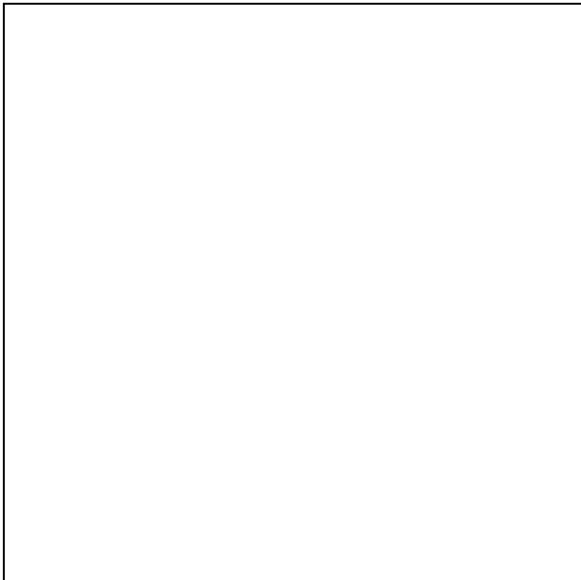
Voltage(V): 219.80 V
Current(A): 0.0470 A
Power(W): 10.00 W
Power Factor: 0.9630
Lamp Luminous Flux: 950.23

Photometric Results

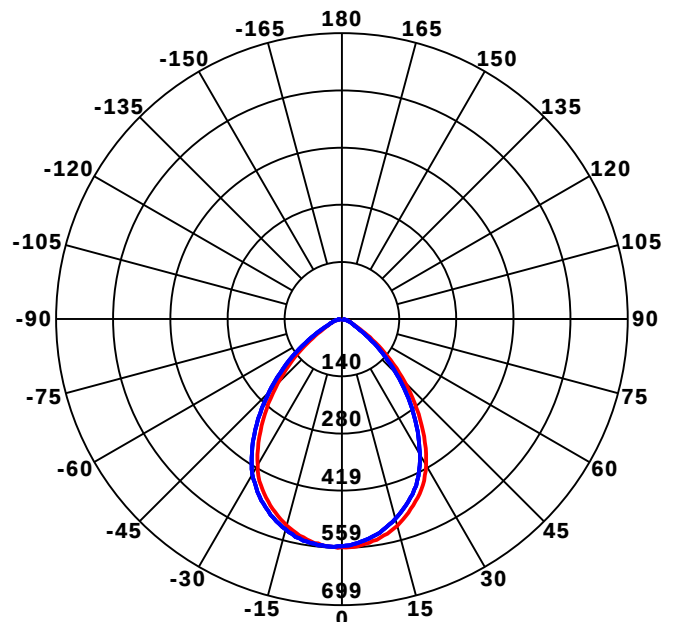
CIE Class: Direct
Luminaire Luminous Flux: 950.2337 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.02 lm/W
Beam Angle(50%) C0-180,C90-270: 80.9,81.0
Field Angle(10%) C0-180,C90-270: 121.2,121.2
S/MH C0-180,C90-270: 1.109,1.109

Max. Intensity: 559.09 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 557.56 cd
Effective Luminous Flux: 895.00 lm
ERP(φ use)(120deg): 888.13 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



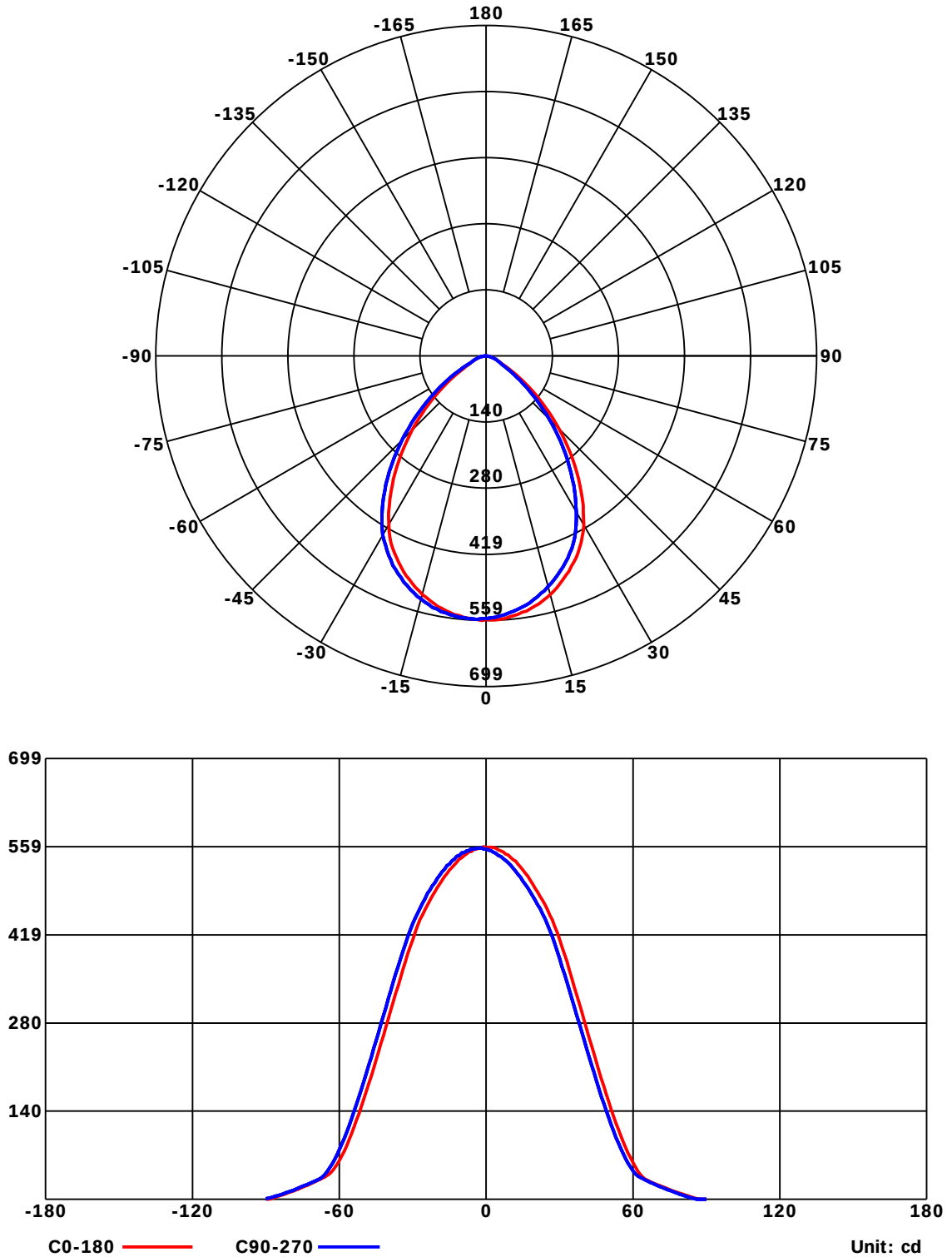
Beam Angle(50%) C0-180,C90-270: 80.9 deg,81.0 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 30
Operators: QC01
Test Date: 2023/7/18 9:26:18

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 65
Test Distance: 6.66 m
Remarks:

Luminous Intensity Distribution Curve



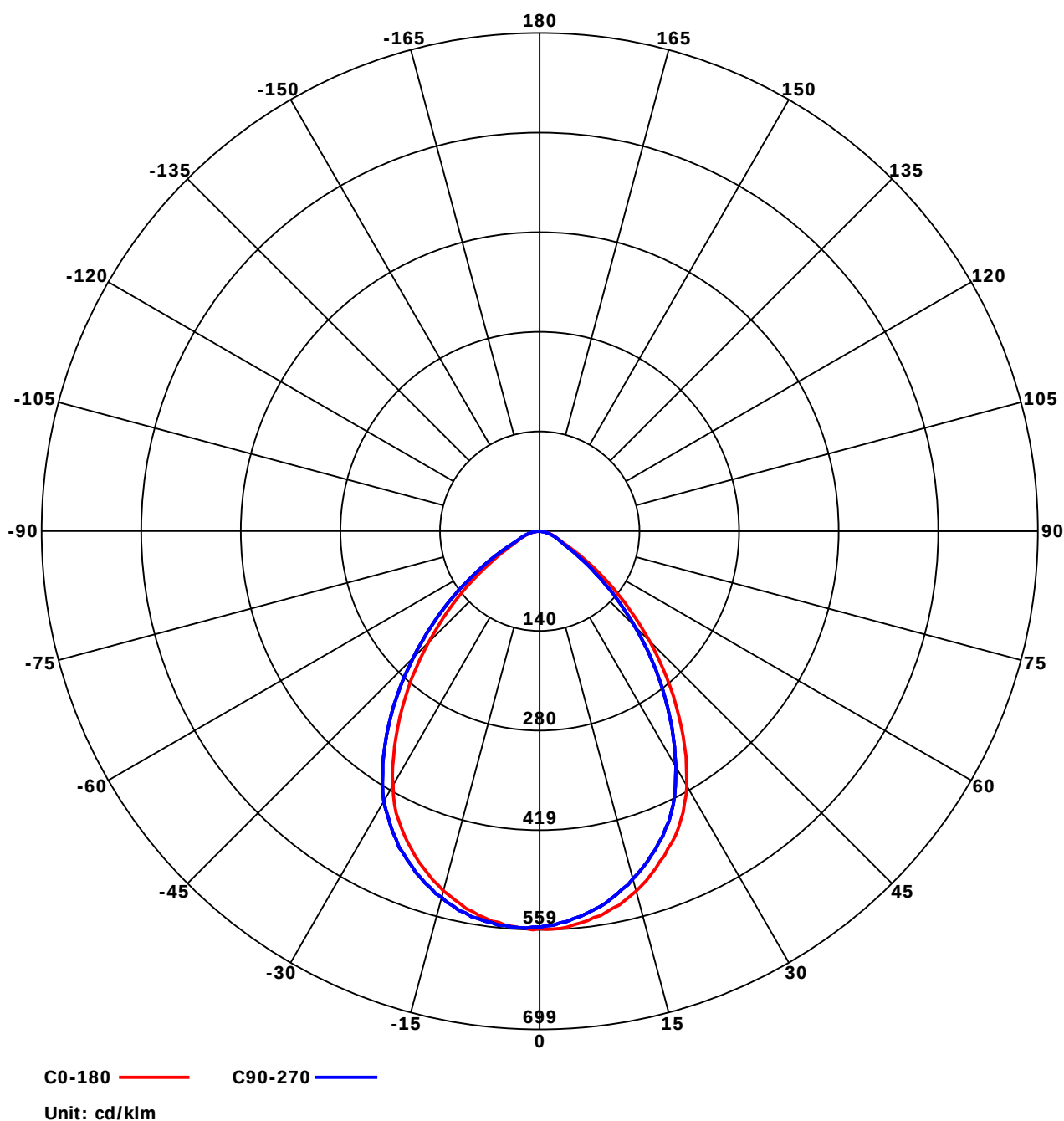
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Test Speed: High
Temperature: 30
Operators: QC01
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Luminous Intensity Distribution Curve



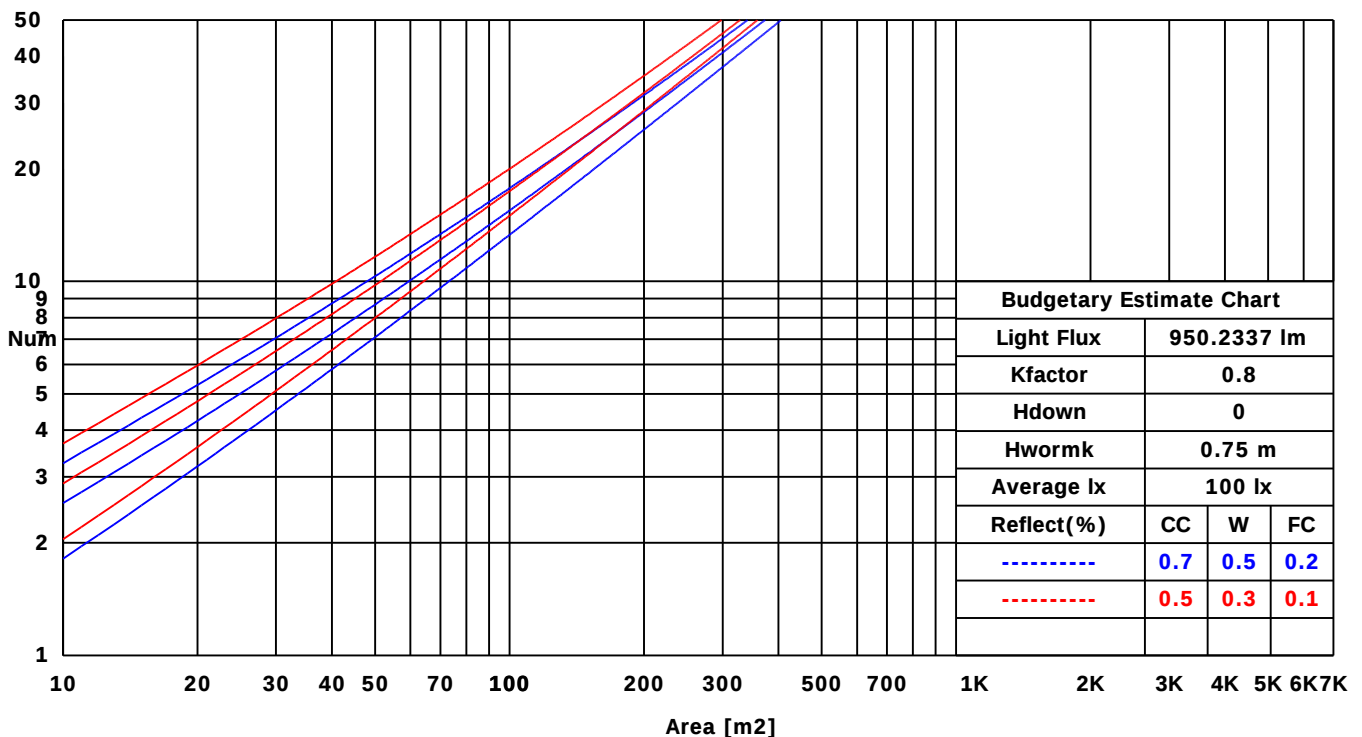
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 Humidity: 65
 Test Distance: 6.66 m
 Remarks:

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	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.91	0.89	0.86	0.86	0.83	0.80	0.76
3	0.92	0.91	0.89	0.92	0.89	0.87	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
5	0.80	0.78	0.77	0.79	0.77	0.75	0.78	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.60
6	0.75	0.73	0.71	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.63	0.68	0.64	0.60	0.56
7	0.70	0.68	0.67	0.70	0.67	0.65	0.68	0.65	0.62	0.67	0.63	0.59	0.65	0.60	0.56	0.52
8	0.66	0.64	0.63	0.66	0.63	0.61	0.65	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.49
9	0.62	0.60	0.59	0.62	0.60	0.58	0.61	0.58	0.55	0.60	0.56	0.53	0.59	0.53	0.50	0.47
10	0.59	0.57	0.56	0.59	0.56	0.55	0.58	0.55	0.52	0.57	0.53	0.50	0.56	0.51	0.47	0.44

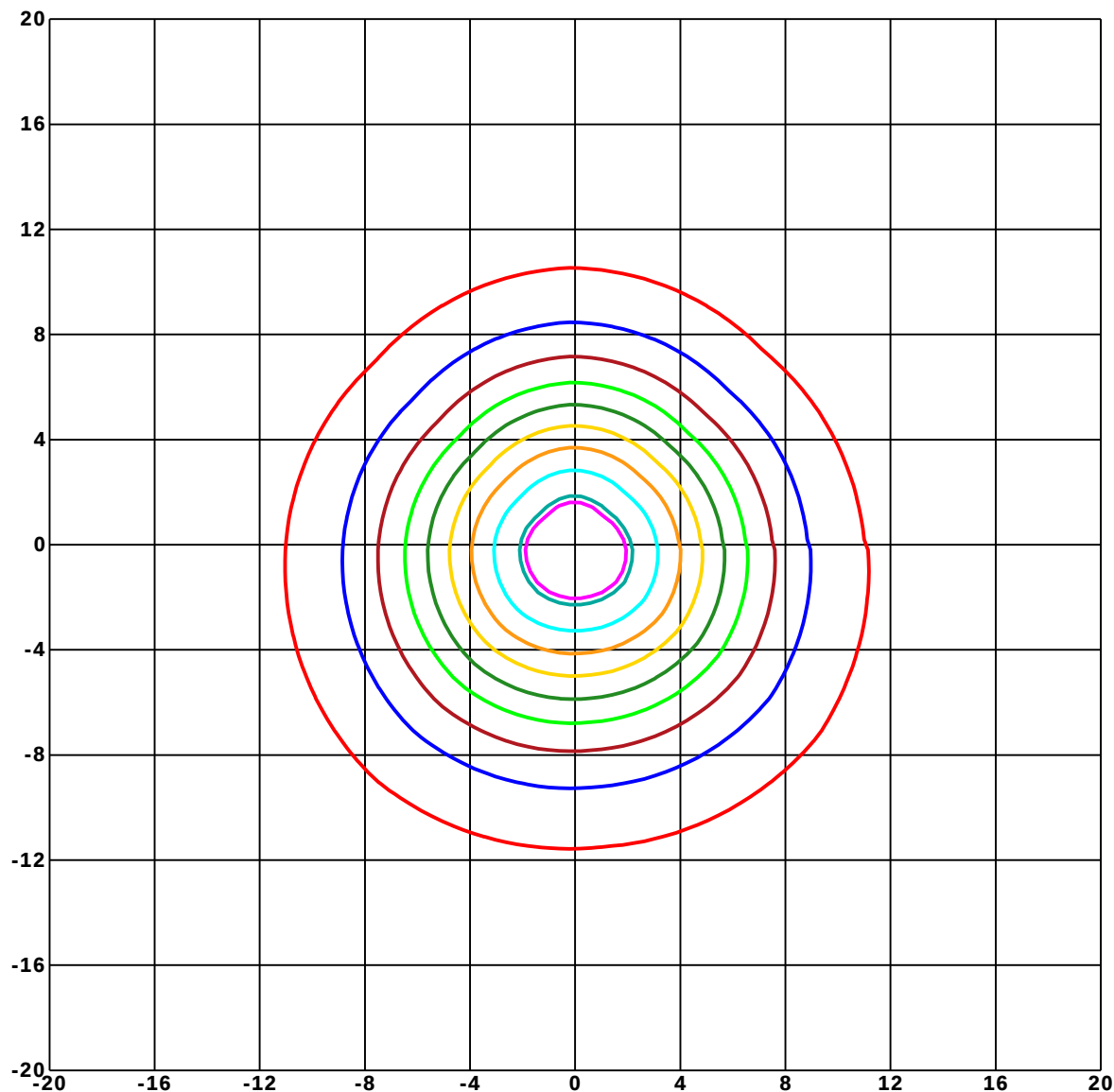
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 30
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 Test Date: 2023/7/18 9:26:18

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800 Goniophotometer
 Humidity: 65
 Test Distance: 6.66 m
 Remarks:

ISOLX DIAGRAM



Unit of illumination:lx

Height of plane:10.0(m)/32.81(ft)

5.141(1%E_{max})

5.03(1%E_{max})

4.471(1%E_{max})

3.912(1%E_{max})

3.353(1%E_{max})

2.794(0%E_{max})

2.235(0%E_{max})

1.677(0%E_{max})

1.118(0%E_{max})

0.559(0%E_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 30

Operators: QC01

Test Date: 2023/7/18 9:26:18

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

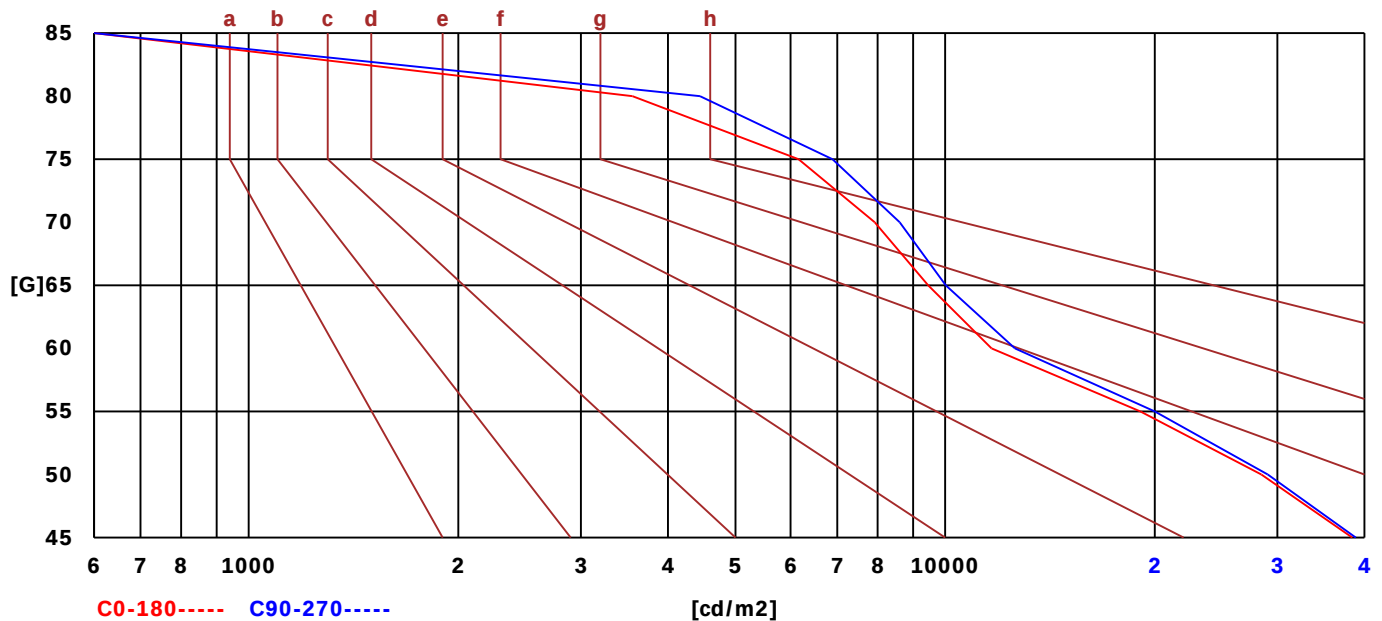
Humidity: 65

Test Distance: 6.66 m

Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	38423	28437	19062	11657	9455	7925	6159	3559	0
C90	38870	29038	20005	12598	10020	8603	6892	4448	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



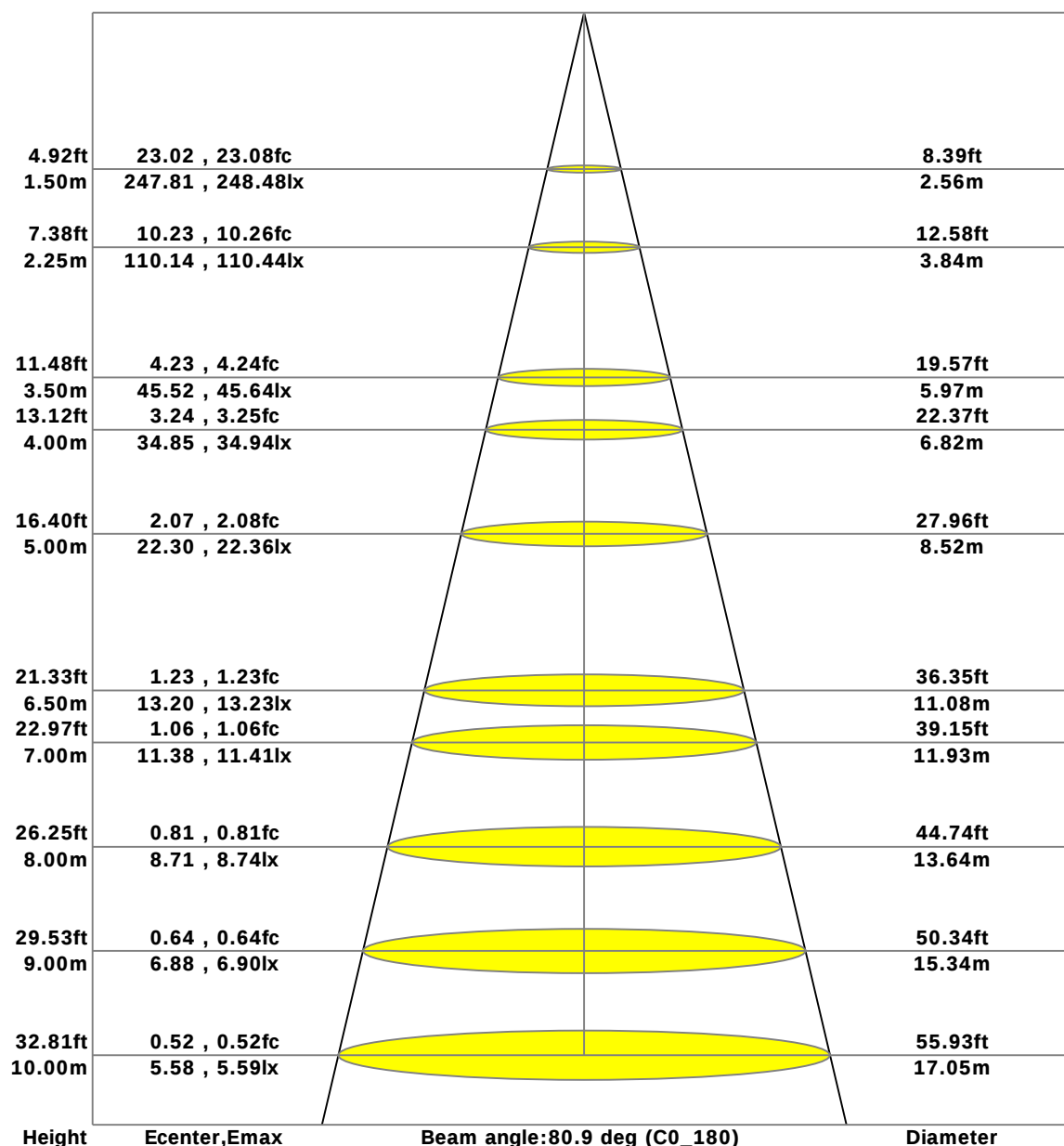
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LX-DISTANCE DIAGRAM



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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	21.12	21.18	21.32	21.37	21.61	20.63	20.70	20.83	20.88	21.13
3H	21.10	21.16	21.31	21.36	21.60	20.62	20.69	20.83	20.88	21.13
4H	21.09	21.15	21.30	21.34	21.59	20.61	20.67	20.82	20.87	21.11
6H	21.06	21.12	21.28	21.32	21.57	20.59	20.65	20.80	20.85	21.10
8H	21.05	21.11	21.27	21.31	21.56	20.57	20.63	20.79	20.83	21.09
12H	21.04	21.09	21.26	21.30	21.56	20.56	20.62	20.78	20.82	21.08
4H 2H	21.68	21.74	21.89	21.94	22.18	21.22	21.28	21.43	21.48	21.73
3H	21.70	21.76	21.92	21.96	22.22	21.26	21.31	21.48	21.52	21.77
4H	21.69	21.74	21.92	21.96	22.22	21.25	21.30	21.48	21.51	21.77
6H	21.67	21.72	21.90	21.94	22.20	21.22	21.28	21.46	21.50	21.76
8H	21.65	21.70	21.89	21.93	22.19	21.21	21.26	21.45	21.49	21.75
12H	21.63	21.68	21.88	21.91	22.18	21.19	21.24	21.44	21.47	21.74
8H 4H	21.82	21.87	22.03	22.08	22.33	21.34	21.39	21.55	21.60	21.85
6H	21.83	21.88	22.09	22.11	22.39	21.36	21.41	21.62	21.64	21.92
8H	21.81	21.86	22.07	22.10	22.38	21.34	21.39	21.60	21.63	21.91
12H	21.79	21.83	22.06	22.09	22.37	21.32	21.36	21.59	21.62	21.90
12H 4H	21.86	21.91	22.11	22.14	22.41	21.38	21.43	21.63	21.66	21.93
6H	21.84	21.88	22.10	22.12	22.40	21.35	21.40	21.61	21.64	21.92

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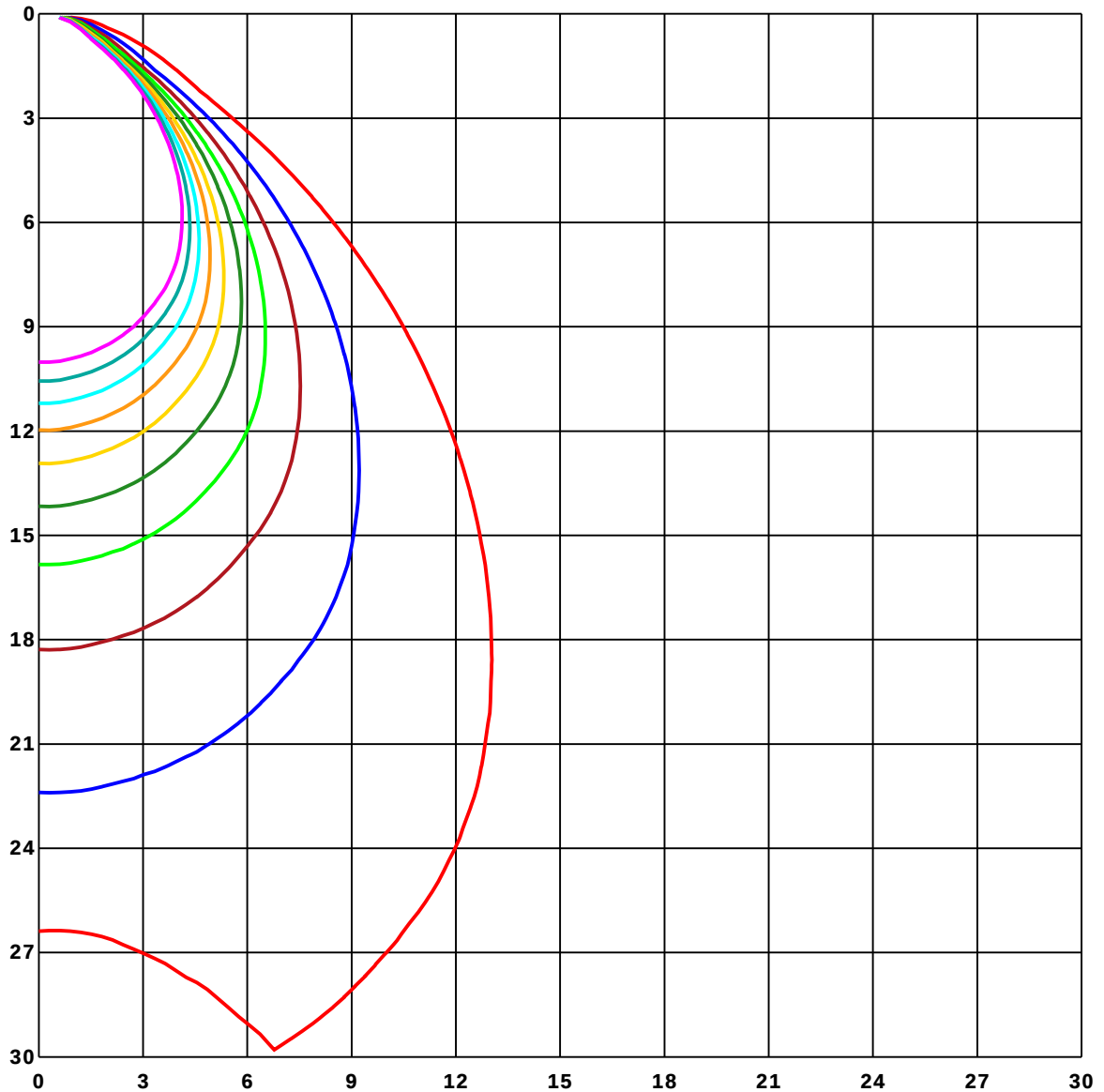
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
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Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	557.56	552.17	555.49	555.04	557.56	552.17	555.49	555.04	557.56	
G1	558.28	549.43	553.56	552.26	559.09	552.48	555.49	556.71	558.28	
G2	558.24	548.08	552.93	551.31	557.43	554.15	557.34	556.62	558.24	
G3	557.83	546.01	550.24	549.61	556.98	554.95	556.71	556.21	557.83	
G4	556.62	544.57	548.62	546.33	555.45	554.28	556.48	556.93	556.62	
G5	553.97	541.02	545.34	544.21	554.77	553.7	555.13	557.11	553.97	
G6	552.17	537.61	543.31	540.39	551.54	553.92	555.67	556.62	552.17	
G7	550.51	535.04	540.21	537.38	551.13	552.71	553.16	556.12	550.51	
G8	547.13	531.45	536.98	533.25	547.85	552.62	552.53	554.19	547.13	
G9	546.06	527.94	533.7	530.06	545.38	549.92	549.88	552.21	546.06	
G10	542.1	524.84	530.06	524.53	541.79	549.25	549.29	550.77	542.1	
G11	538.6	517.88	524.98	521.07	539.31	545.25	545.25	548.66	538.6	
G12	536.12	513.52	520.35	515.45	534.6	543.13	543.99	545.74	536.12	
G13	531.4	508.75	515.27	510.73	530.46	540.66	539.31	543.72	531.4	
G14	527.0	503.99	511.14	504.39	526.15	538.37	536.62	540.89	527.0	
G15	522.55	497.2	504.8	499.45	522.33	533.7	531.81	538.24	522.55	
G16	517.47	491.32	499.58	493.52	516.39	530.64	529.02	532.12	517.47	
G17	512.21	486.28	493.43	486.91	511.94	525.29	523.4	530.06	512.21	
G18	505.79	480.44	487.45	480.3	505.7	521.88	519.31	525.11	505.79	
G19	500.03	472.35	480.98	473.16	499.85	517.34	513.74	519.49	500.03	
G20	493.07	466.15	474.82	466.87	494.33	511.63	508.98	514.78	493.07	
G21	487.81	457.56	467.23	459.41	487.81	505.79	502.15	510.28	487.81	
G22	480.08	451.27	461.11	451.68	480.8	499.54	496.89	502.91	480.08	
G23	474.28	442.37	452.48	444.49	473.92	494.19	490.24	498.28	474.28	
G24	467.5	435.41	445.65	435.59	466.73	487.41	485.38	490.91	467.5	
G25	459.9	425.56	436.26	426.42	459.36	481.65	476.62	484.71	459.9	
G26	451.05	415.32	426.87	414.73	451.45	475.18	470.1	478.01	451.05	
G27	443.0	403.68	416.22	403.14	443.86	466.69	461.7	470.6	443.0	
G28	432.22	392.67	405.16	391.72	434.1	459.77	453.52	463.41	432.22	
G29	423.68	381.79	393.52	380.94	423.68	451.99	446.06	456.53	423.68	
G30	412.53	369.48	381.88	368.22	411.59	444.35	437.61	446.87	412.53	
G31	400.35	356.94	368.4	356.22	401.34	434.24	427.59	437.56	400.35	
G32	387.86	345.03	356.67	343.77	389.79	426.1	416.22	427.77	387.86	
G33	376.94	330.55	343.86	330.02	376.49	414.42	404.62	417.02	376.94	
G34	362.87	317.39	331.54	317.03	364.62	403.32	393.65	404.71	362.87	
G35	350.55	304.31	318.2	305.57	351.32	391.54	381.52	393.83	350.55	
G36	337.03	290.96	305.43	291.9	338.29	379.23	369.25	381.83	337.03	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	324.53	278.15	291.9	280.4	325.93	367.14	356.58	369.16	324.53	
G38	310.82	264.67	279.19	265.61	312.53	355.63	344.04	356.22	310.82	
G39	298.06	251.23	265.97	252.94	299.54	342.69	330.69	344.44	298.06	
G40	284.17	237.88	253.12	239.5	286.38	328.98	318.2	331.59	284.17	
G41	271.1	224.67	239.77	226.38	273.66	316.13	304.08	318.33	271.1	
G42	257.57	211.55	226.87	213.03	259.59	303.05	291.77	305.3	257.57	
G43	244.04	199.1	213.21	200.58	246.92	289.61	277.84	291.99	244.04	
G44	231.05	186.33	201.61	188.4	233.39	276.44	263.81	279.23	231.05	
G45	218.11	173.88	188.36	175.91	220.71	263.5	251.05	265.34	218.11	
G46	204.62	161.93	176.27	164.18	207.64	249.88	239.1	251.9	204.62	
G47	191.91	150.24	163.82	152.9	195.05	236.49	224.89	238.92	191.91	
G48	179.82	138.87	152.27	141.48	182.56	223.86	212.36	225.57	179.82	
G49	167.19	127.82	140.99	130.06	170.96	210.96	199.32	212.27	167.19	
G50	155.59	116.99	130.06	119.46	159.19	197.7	186.96	199.68	155.59	
G51	143.41	106.38	118.83	109.44	147.59	185.61	174.65	186.92	143.41	
G52	132.31	96.27	109.03	99.91	135.95	173.48	162.6	175.14	132.31	
G53	121.39	87.05	98.69	90.6	125.39	160.63	150.29	162.74	121.39	
G54	110.92	77.98	89.26	81.75	114.02	149.08	139.28	150.65	110.92	
G55	100.81	69.98	80.4	73.44	104.18	137.48	127.82	139.77	100.81	
G56	91.1	62.02	72.18	65.84	94.56	125.88	116.94	128.4	91.1	
G57	81.89	54.92	64.27	58.61	84.94	115.28	106.47	117.93	81.89	
G58	73.3	48.31	57.21	51.68	76.63	104.72	96.85	107.59	73.3	
G59	65.62	41.98	50.74	45.75	68.4	94.47	87.41	98.11	65.62	
G60	58.02	37.3	44.94	40.31	61.57	85.53	78.74	88.4	58.02	
G61	51.28	33.44	40.18	35.95	55.19	76.94	70.25	80.0	51.28	
G62	44.63	30.74	36.99	32.76	49.39	69.17	62.74	71.73	44.63	
G63	39.33	28.9	34.74	30.74	44.63	62.43	55.77	64.27	39.33	
G64	34.97	27.19	32.81	28.81	40.45	56.13	49.66	57.3	34.97	
G65	31.95	25.57	30.65	27.1	37.57	50.52	43.59	50.65	31.95	
G66	30.11	23.77	28.94	25.26	35.33	45.57	39.15	44.67	30.11	
G67	28.18	22.43	26.88	23.68	33.35	41.3	35.19	40.31	28.18	
G68	26.47	20.67	25.3	21.89	31.28	37.93	32.63	36.94	26.47	
G69	24.72	18.97	23.42	20.36	29.53	35.73	30.61	34.74	24.72	
G70	23.01	17.35	21.71	18.83	27.73	33.8	28.99	32.58	23.01	
G71	21.48	15.91	20.09	17.21	25.93	31.55	27.1	30.92	21.48	
G72	19.82	14.47	18.56	15.86	24.0	29.84	25.62	28.99	19.82	
G73	18.52	13.21	17.03	14.56	22.29	27.95	23.73	27.01	18.52	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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