

Report No.:

Test Time: 2024/9/26 10:31:45

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H86-60°-10.7W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

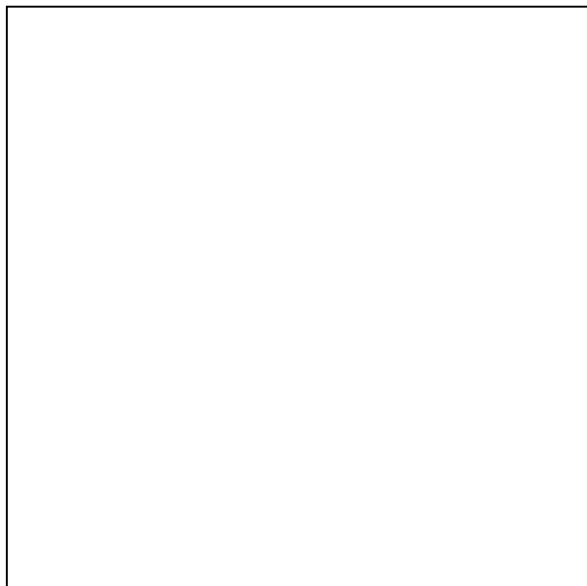
Voltage(V): 219.90 V
Current(A): 0.0520 A
Power(W): 10.64 W
Power Factor: 0.9180
Lamp Luminous Flux: 1035.44

Photometric Results

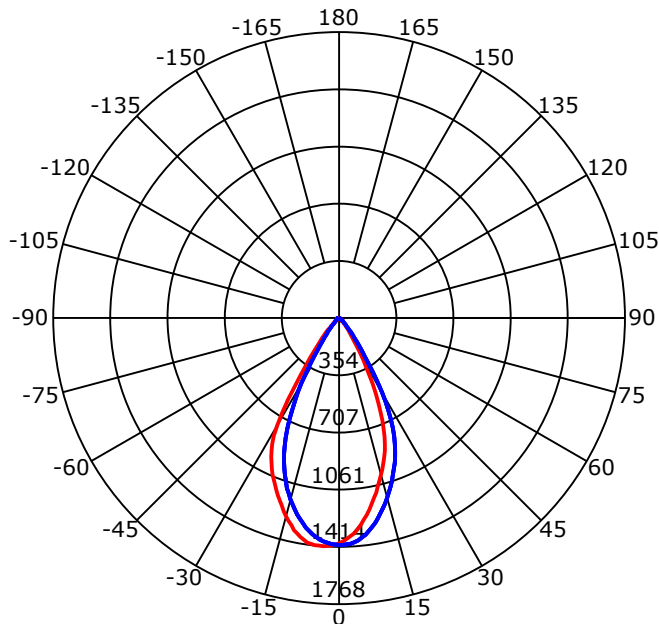
CIE Class: Direct
Luminaire Luminous Flux: 1035.435 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.28 lm/W
Beam Angle(50%) C0-180,C90-270: 53.3,53.1
Field Angle(10%) C0-180,C90-270: 75.3,75.9
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 1414.01 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1392.40 cd
Effective Luminous Flux: 935.85 lm
ERP(ϕ use)(120deg): 1016.12 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 53.3 deg,53.1 deg

C0-180 — C90-270 —

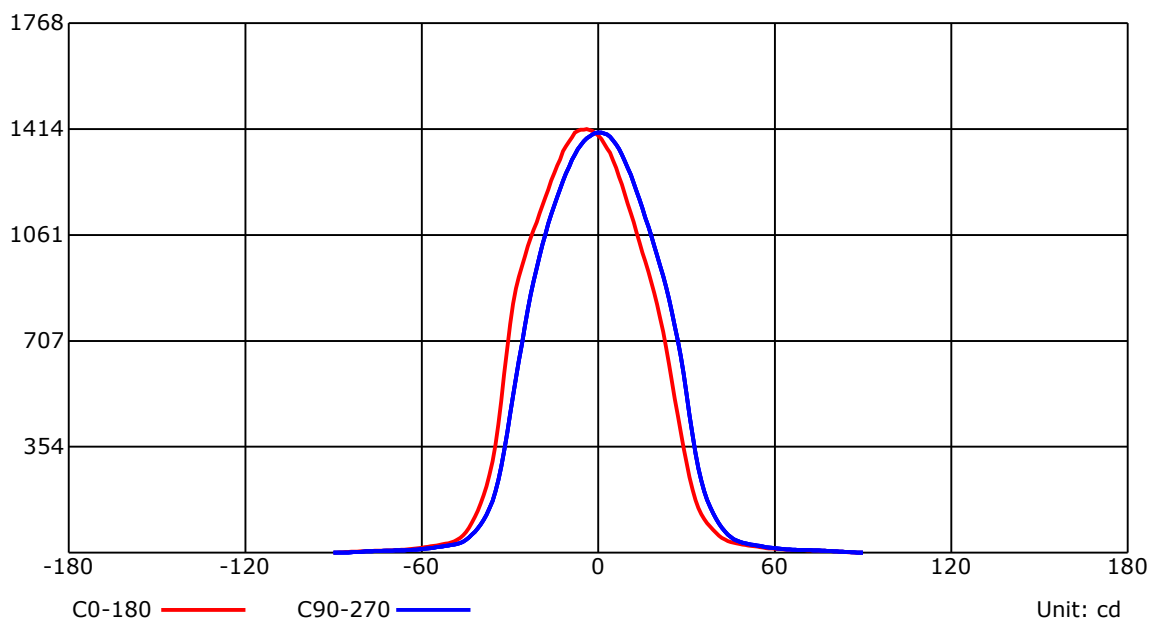
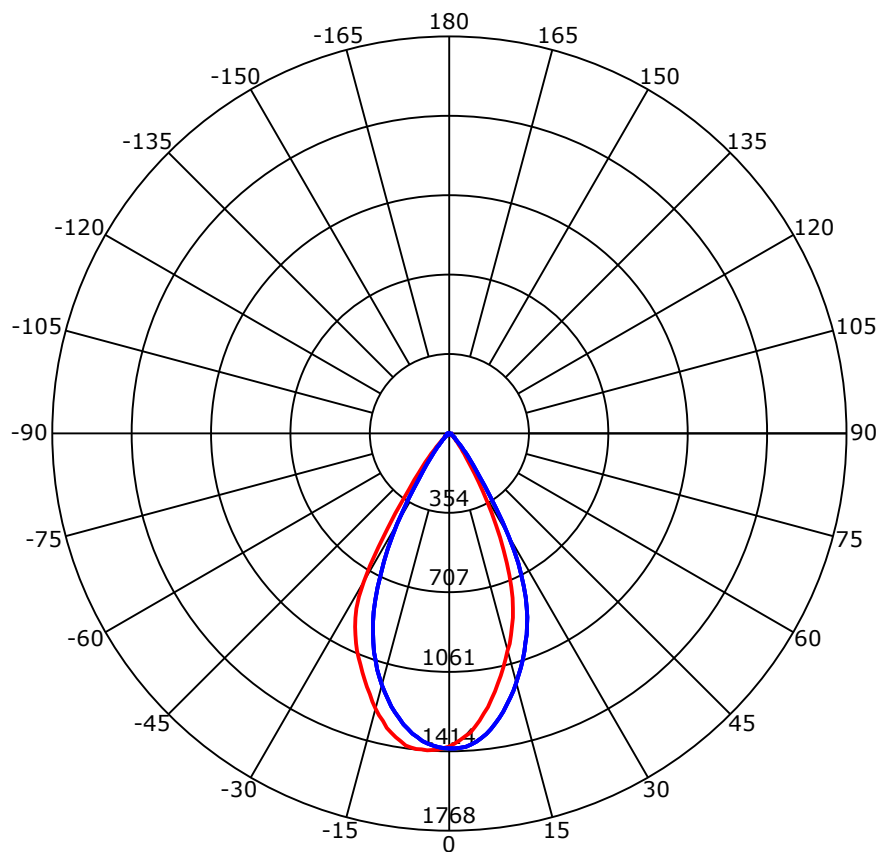
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/26 10:31:45

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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C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

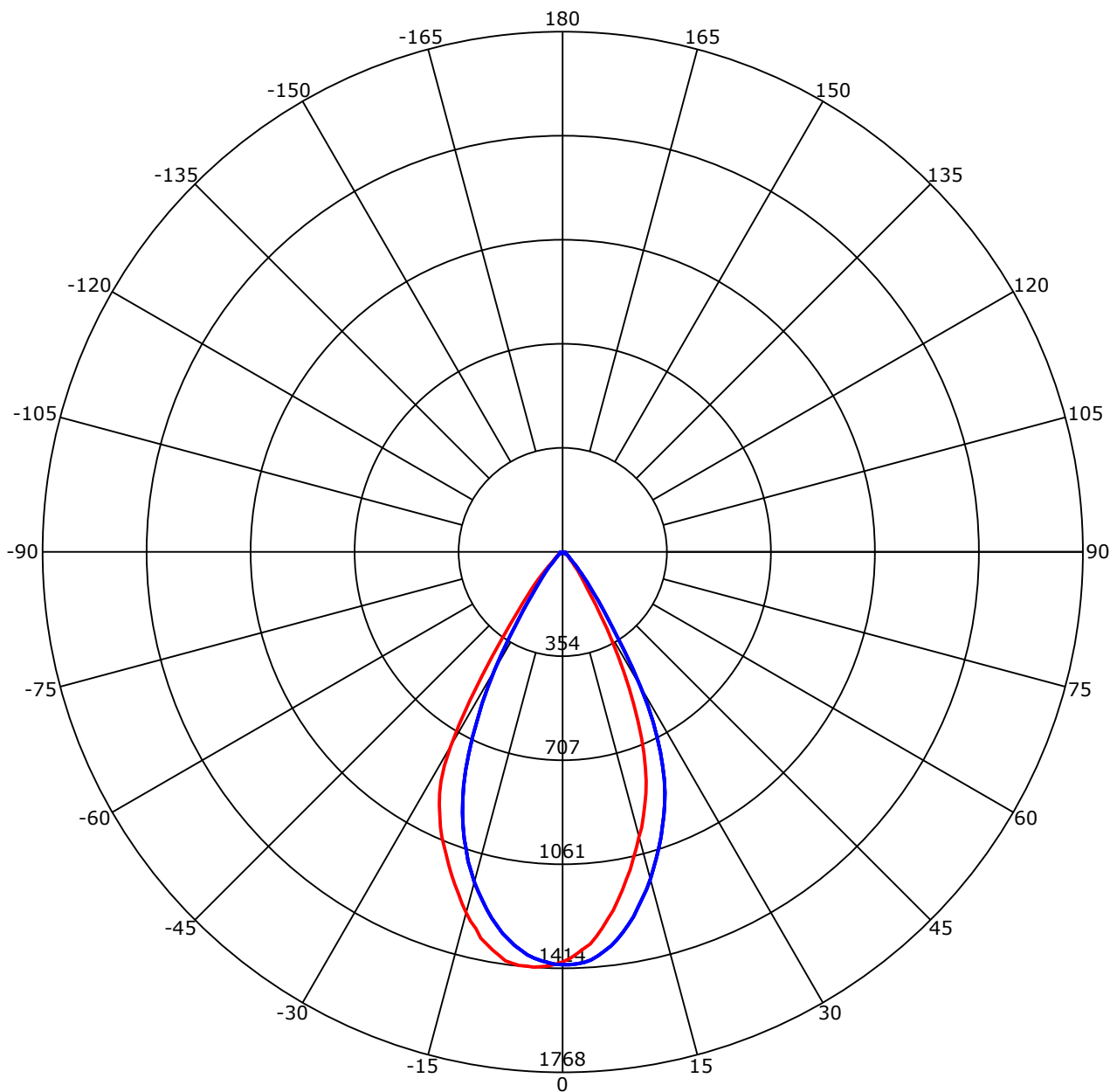
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

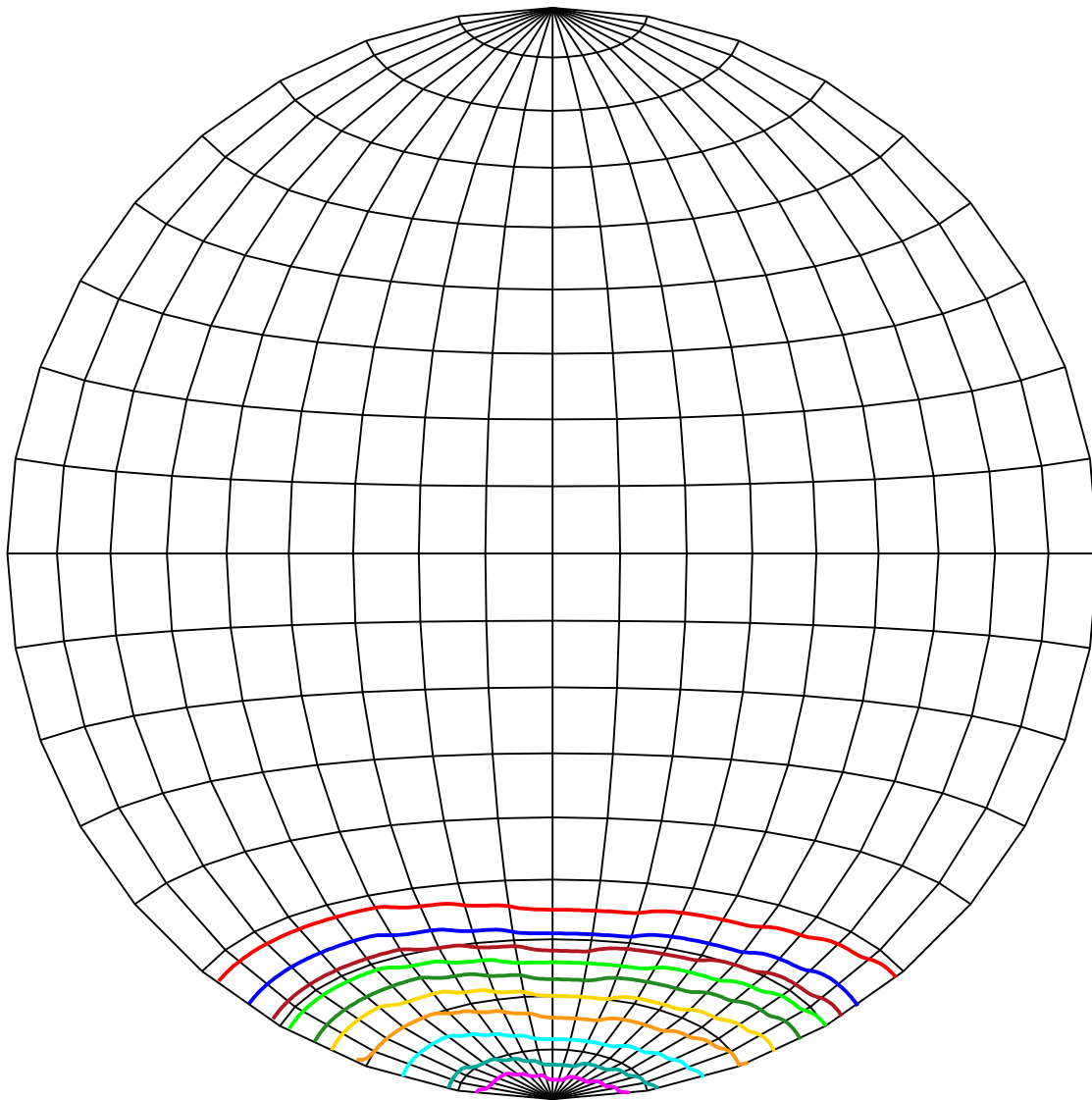
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1414.007 cd

1343.307(95%Imax)	707.004(50%Imax)
1272.606(90%Imax)	565.603(40%Imax)
1131.206(80%Imax)	424.202(30%Imax)
989.805(70%Imax)	282.802(20%Imax)
848.404(60%Imax)	141.401(10%Imax)

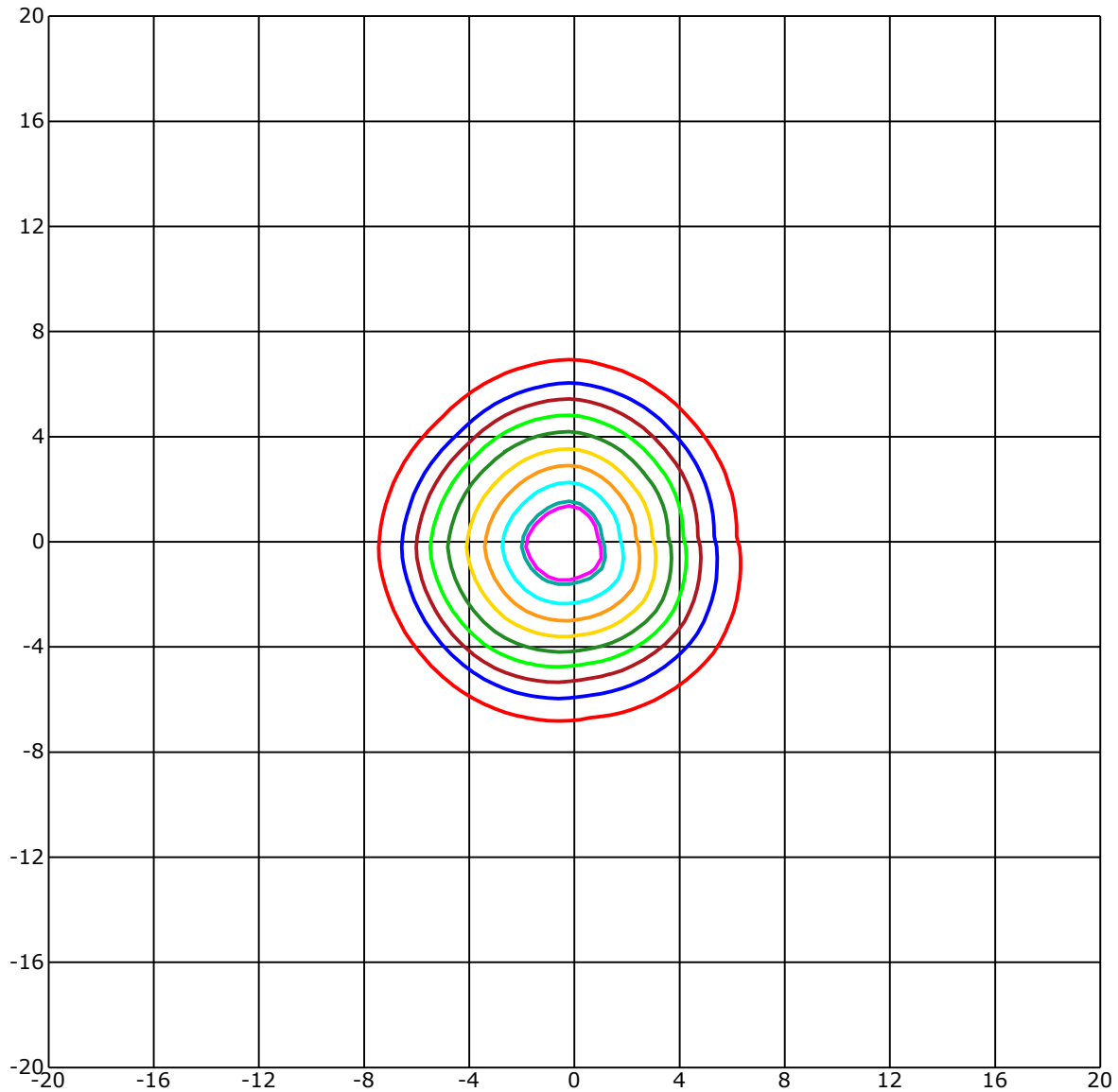
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ISOLX DIAGRAM



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

12.963(92%Emax)	7.045(50%Emax)
12.681(90%Emax)	5.636(40%Emax)
11.272(80%Emax)	4.227(30%Emax)
9.863(70%Emax)	2.818(20%Emax)
8.454(60%Emax)	1.409(10%Emax)

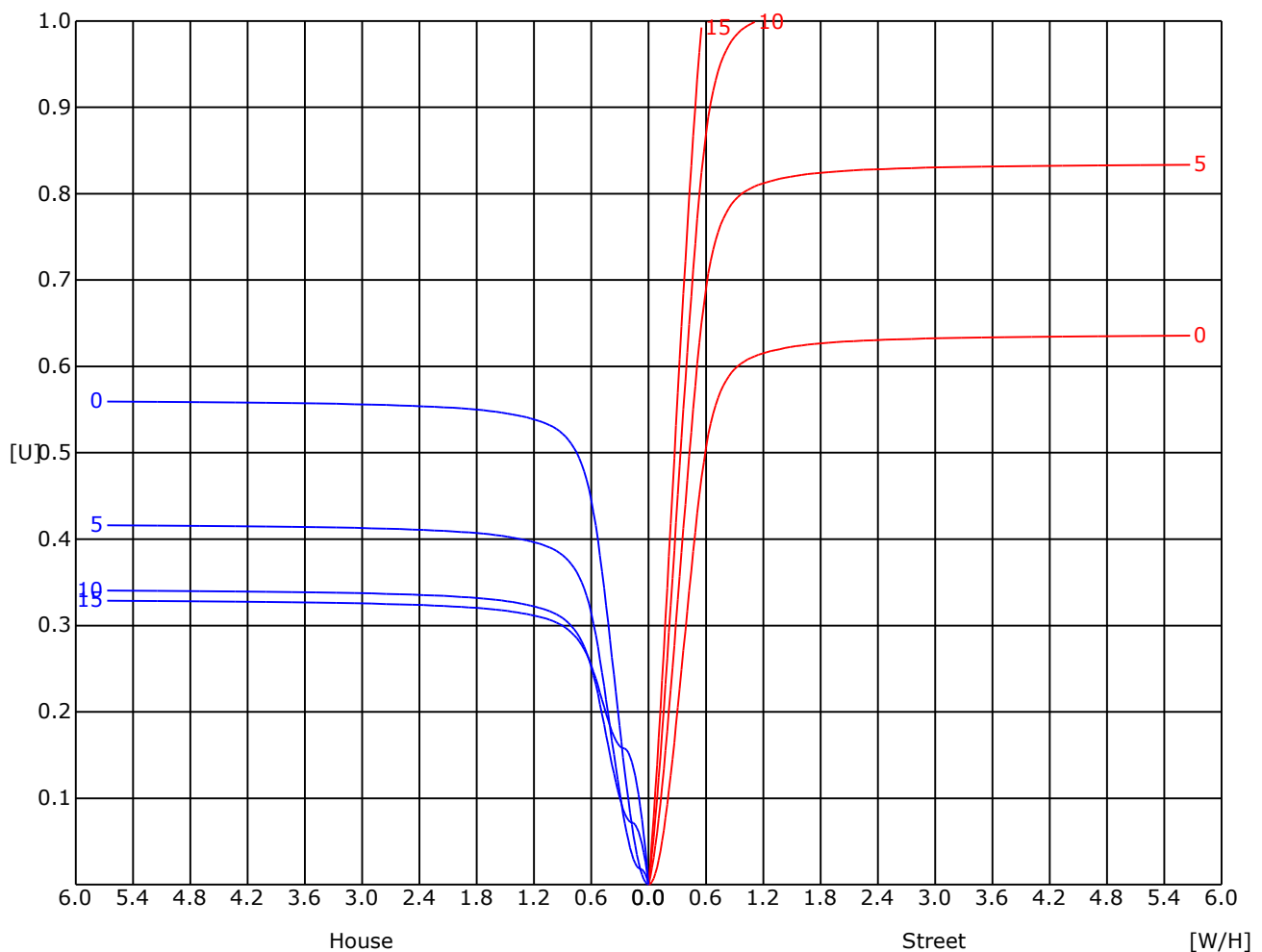
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UTILIZATION FACTOR DIAGRAM (ROAD)



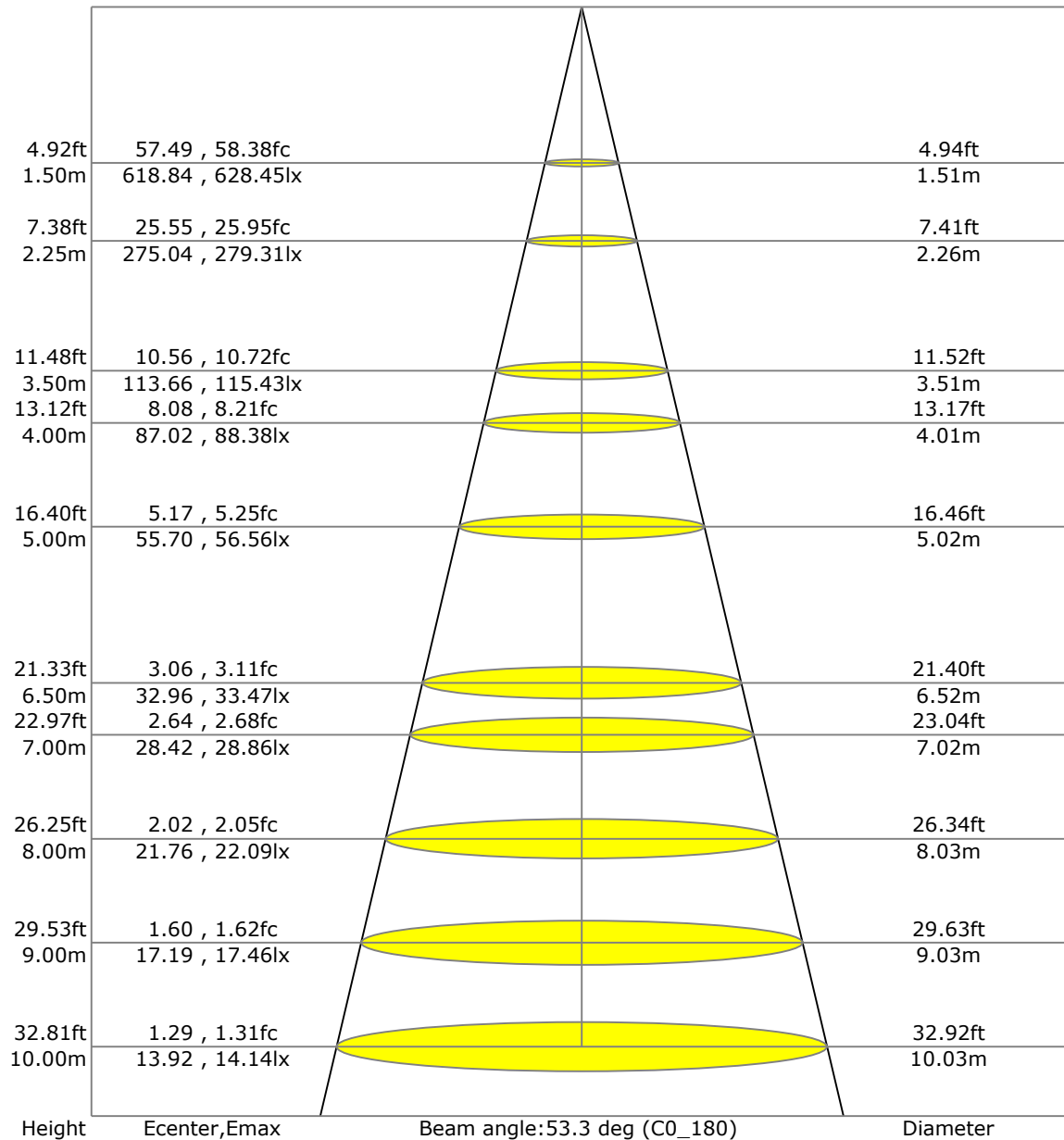
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Humidity: 60
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LX-DISTANCE DIAGRAM



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

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	9.54	9.59	9.74	9.78	10.02	9.67	9.72	9.87	9.91	10.15
	3H	9.55	9.60	9.76	9.80	10.04	9.68	9.73	9.89	9.92	10.17
	4H	9.55	9.60	9.76	9.80	10.04	9.68	9.73	9.89	9.92	10.17
	6H	9.53	9.59	9.75	9.79	10.04	9.66	9.71	9.88	9.91	10.17
	8H	9.53	9.58	9.74	9.78	10.03	9.65	9.70	9.87	9.91	10.16
	12H	9.52	9.57	9.74	9.77	10.03	9.64	9.69	9.87	9.90	10.15
4H	2H	10.13	10.19	10.35	10.38	10.63	10.27	10.33	10.49	10.52	10.77
	3H	10.24	10.29	10.46	10.50	10.75	10.37	10.42	10.59	10.63	10.88
	4H	10.26	10.31	10.49	10.52	10.78	10.39	10.44	10.62	10.66	10.91
	6H	10.26	10.31	10.50	10.53	10.80	10.39	10.44	10.63	10.66	10.93
	8H	10.25	10.30	10.50	10.53	10.79	10.38	10.43	10.63	10.66	10.92
	12H	10.24	10.29	10.49	10.52	10.79	10.37	10.42	10.62	10.65	10.92
8H	4H	10.42	10.47	10.63	10.67	10.92	10.56	10.61	10.77	10.81	11.06
	6H	10.69	10.73	10.94	10.97	11.24	10.82	10.86	11.07	11.10	11.38
	8H	10.68	10.73	10.95	10.97	11.25	10.82	10.86	11.08	11.10	11.38
	12H	10.67	10.71	10.94	10.97	11.25	10.80	10.84	11.07	11.09	11.38
12H	4H	10.72	10.77	10.97	11.00	11.27	10.89	10.93	11.13	11.16	11.43
	6H	10.75	10.80	11.02	11.04	11.32	10.92	10.97	11.19	11.21	11.49

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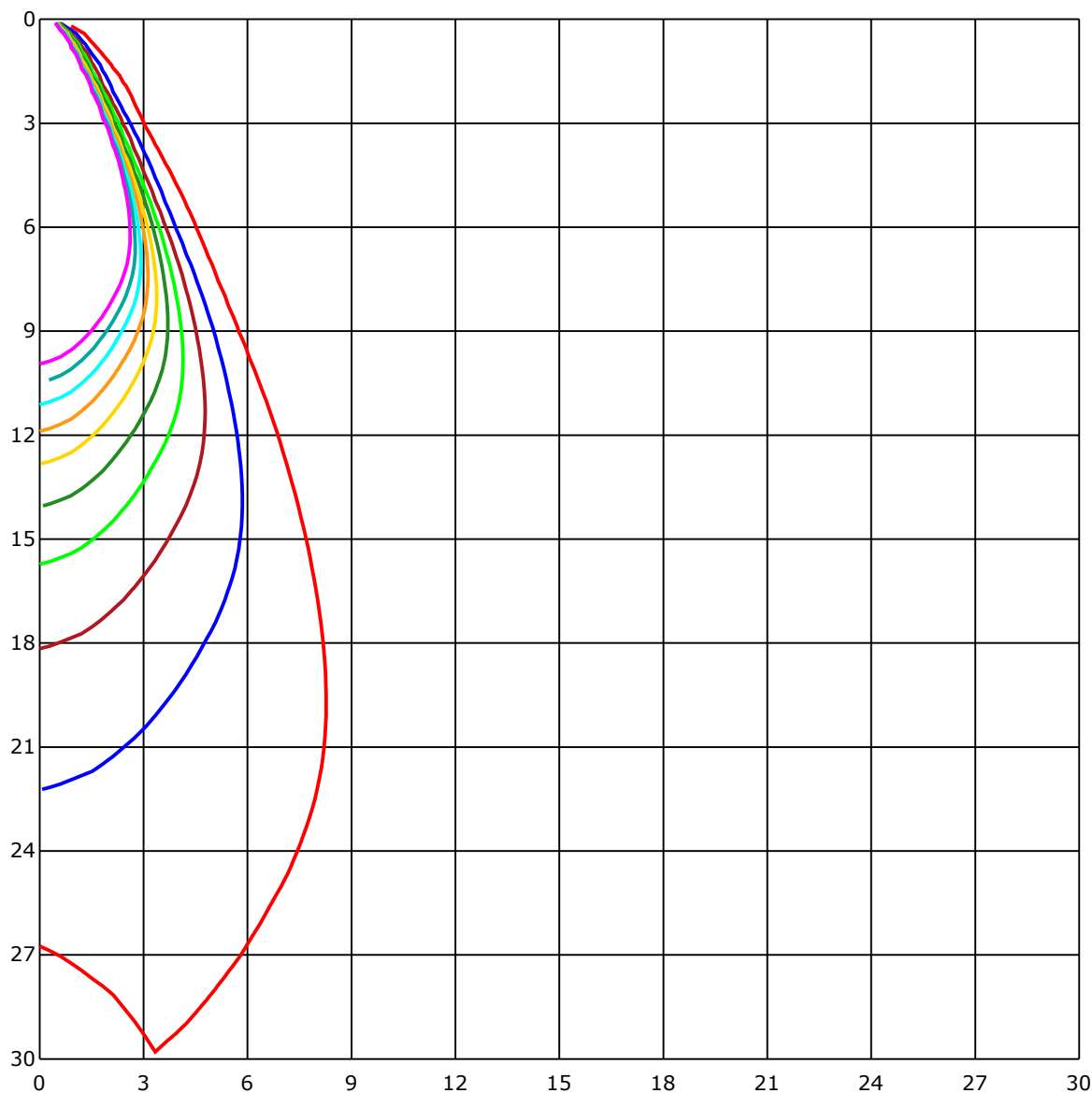
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

14.076	7.038
12.668	5.63
11.26	4.223
9.853	2.815
8.445	1.408

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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	1392.4	1401.53	1401.9	1403.43	1392.4	1401.53	1401.9	1403.43	1392.4	
G1	1380.48	1393.42	1401.9	1404.45	1400.23	1406.49	1400.84	1399.35	1380.48	
G2	1365.13	1381.82	1399.31	1404.22	1407.56	1411.55	1396.25	1394.67	1365.13	
G3	1349.36	1370.37	1395.83	1401.63	1410.48	1413.17	1390.03	1384.19	1349.36	
G4	1334.98	1355.48	1388.41	1394.25	1414.01	1412.25	1383.58	1376.86	1334.98	
G5	1310.45	1336.56	1376.86	1384.98	1411.92	1403.62	1373.61	1362.76	1310.45	
G6	1284.29	1312.95	1362.95	1376.26	1412.38	1396.01	1359.84	1348.39	1284.29	
G7	1255.22	1288.19	1347.92	1362.25	1407.47	1390.68	1346.44	1331.46	1255.22	
G8	1229.57	1264.21	1328.68	1347.5	1402.18	1378.11	1328.12	1311.7	1229.57	
G9	1197.34	1234.39	1307.11	1327.84	1386.6	1362.99	1310.96	1288.47	1197.34	
G10	1165.48	1203.88	1284.94	1310.08	1372.59	1344.26	1287.82	1265.33	1165.48	
G11	1132.69	1169.79	1261.43	1287.35	1356.18	1325.52	1265.74	1239.26	1132.69	
G12	1102.69	1136.21	1233.33	1264.95	1340.18	1304.84	1241.44	1216.58	1102.69	
G13	1068.09	1106.4	1205.73	1237.92	1313.0	1281.0	1214.68	1190.2	1068.09	
G14	1035.53	1073.79	1179.25	1210.32	1292.64	1255.73	1187.83	1159.77	1035.53	
G15	1001.49	1040.08	1150.36	1180.97	1267.83	1232.82	1159.82	1133.29	1001.49	
G16	973.2	1006.27	1117.76	1154.72	1241.77	1203.18	1129.21	1103.15	973.2	
G17	937.82	973.11	1088.08	1124.76	1212.32	1175.82	1099.35	1069.34	937.82	
G18	902.66	938.47	1057.28	1095.45	1186.53	1145.54	1062.34	1037.67	902.66	
G19	867.0	904.98	1024.31	1064.33	1159.59	1117.62	1029.23	1003.07	867.0	
G20	828.18	868.49	991.47	1036.51	1132.97	1087.1	991.2	969.45	828.18	
G21	784.5	834.86	958.87	1003.07	1102.82	1057.98	950.06	931.23	784.5	
G22	737.38	793.17	923.67	972.97	1077.36	1023.66	905.4	891.16	737.38	
G23	685.11	747.81	887.78	935.73	1050.88	991.06	861.76	844.79	685.11	
G24	630.58	699.63	847.85	898.58	1022.45	954.14	811.4	794.75	630.58	
G25	572.74	648.57	803.88	856.94	988.37	916.81	757.28	741.14	572.74	
G26	514.31	593.57	757.14	811.58	957.02	875.81	697.91	686.92	514.31	
G27	456.62	538.47	706.22	757.69	920.66	828.09	640.18	628.3	456.62	
G28	402.03	481.57	654.83	691.51	881.84	774.94	582.72	571.21	402.03	
G29	348.56	429.12	596.63	614.99	830.6	716.79	524.33	512.73	348.56	
G30	301.03	371.94	529.1	536.15	763.58	642.45	464.6	455.0	301.03	
G31	252.7	313.22	459.82	457.22	683.58	562.08	400.97	400.23	252.7	
G32	210.08	260.49	391.0	387.19	595.33	482.59	339.38	349.3	210.08	
G33	175.67	217.46	331.13	327.6	506.2	406.58	286.98	296.58	175.67	
G34	149.15	182.54	281.46	279.14	428.14	339.98	241.48	250.48	149.15	
G35	128.42	154.8	240.6	238.05	359.79	286.47	204.19	211.2	128.42	
G36	112.32	133.15	205.31	203.73	305.29	242.27	172.8	180.54	112.32	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	98.64	115.57	176.65	174.98	258.73	206.33	147.71	154.71	98.64	
G38	86.77	100.73	152.3	149.98	221.35	176.79	126.37	134.49	86.77	
G39	75.78	87.88	131.89	127.4	191.53	153.04	108.98	117.47	75.78	
G40	66.41	76.47	113.53	107.92	164.45	132.5	94.75	103.7	66.41	
G41	57.23	66.13	97.62	90.29	140.43	113.99	81.58	91.31	57.23	
G42	49.85	56.95	83.66	75.13	119.46	97.34	69.75	80.97	49.85	
G43	43.73	49.16	71.23	61.73	99.89	83.06	59.78	71.33	43.73	
G44	39.19	42.76	60.29	50.92	82.78	70.35	50.41	63.16	39.19	
G45	35.62	38.03	52.17	41.83	69.1	59.73	42.53	55.7	35.62	
G46	32.88	34.46	45.26	35.43	57.92	51.11	36.68	49.58	32.88	
G47	30.75	31.77	40.63	30.61	49.21	44.38	32.51	44.06	30.75	
G48	29.08	29.5	36.73	27.22	42.71	39.51	29.54	40.44	29.08	
G49	27.36	27.55	33.76	24.58	37.84	36.22	27.27	37.47	27.36	
G50	25.79	25.79	31.4	22.82	34.69	33.53	25.46	35.2	25.79	
G51	24.25	24.12	29.36	21.19	31.72	31.3	23.88	33.3	24.25	
G52	22.82	22.59	27.36	19.8	29.82	29.26	22.4	31.63	22.82	
G53	21.43	21.33	25.65	18.23	27.78	27.59	21.1	29.73	21.43	
G54	20.17	19.76	24.02	17.3	26.06	25.79	19.8	28.34	20.17	
G55	18.92	18.55	22.4	15.86	24.25	24.3	18.27	26.57	18.92	
G56	17.39	17.39	20.31	14.79	22.82	22.86	16.74	25.09	17.39	
G57	15.68	15.58	18.74	13.54	21.19	21.56	15.4	23.61	15.68	
G58	14.7	14.05	17.34	12.1	19.94	20.13	13.91	21.84	14.7	
G59	13.68	13.08	16.14	10.9	18.55	18.18	12.85	19.9	13.68	
G60	13.08	12.24	15.03	9.88	16.79	16.46	11.97	18.88	13.08	
G61	12.29	11.45	13.96	9.0	15.21	15.35	11.27	17.9	12.29	
G62	11.59	10.62	13.03	8.21	14.19	14.33	10.34	16.83	11.59	
G63	10.9	9.97	12.2	7.42	13.03	13.26	9.69	15.77	10.9	
G64	10.39	9.37	11.36	6.72	12.38	12.43	8.86	14.93	10.39	
G65	9.83	8.77	10.62	6.12	11.22	11.64	8.39	14.19	9.83	
G66	9.32	8.21	10.2	5.57	10.43	10.85	7.98	13.5	9.32	
G67	9.04	7.84	9.6	5.19	9.65	10.02	7.65	12.71	9.04	
G68	8.86	7.61	9.32	4.64	9.14	9.37	7.33	12.24	8.86	
G69	8.67	7.37	9.0	4.45	8.35	8.86	7.28	11.78	8.67	
G70	8.49	7.14	8.77	4.31	7.84	8.39	7.14	11.55	8.49	
G71	8.25	6.86	8.58	4.22	7.42	8.16	6.91	11.08	8.25	
G72	8.21	6.54	8.35	3.99	7.23	7.84	6.63	10.85	8.21	
G73	7.79	6.35	7.84	3.76	6.91	7.61	6.45	10.43	7.79	

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G Range: 0 - 90 Deg

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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