

Report No.:

Test Time: 2025/5/8 18:09:42

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H68-60°-15W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

Voltage(V): 219.90 V
Current(A): 0.0730 A
Power(W): 15.41 W
Power Factor: 0.9520
Lamp Luminous Flux: 1379.96

Photometric Results

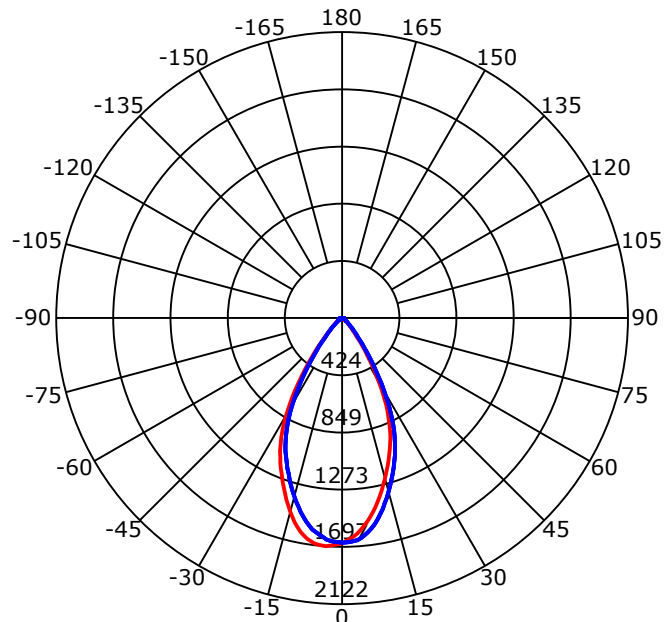
CIE Class: Direct
Luminaire Luminous Flux: 1379.958 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.55 lm/W
Beam Angle(50%) C0-180,C90-270: 54.0,54.6
Field Angle(10%) C0-180,C90-270: 82.0,83.2
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 1697.48 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1670.39 cd
Effective Luminous Flux: 1236.82 lm
ERP(ϕ use)(120deg): 1341.16 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 54.0 deg,54.6 deg

C0-180 — C90-270 —

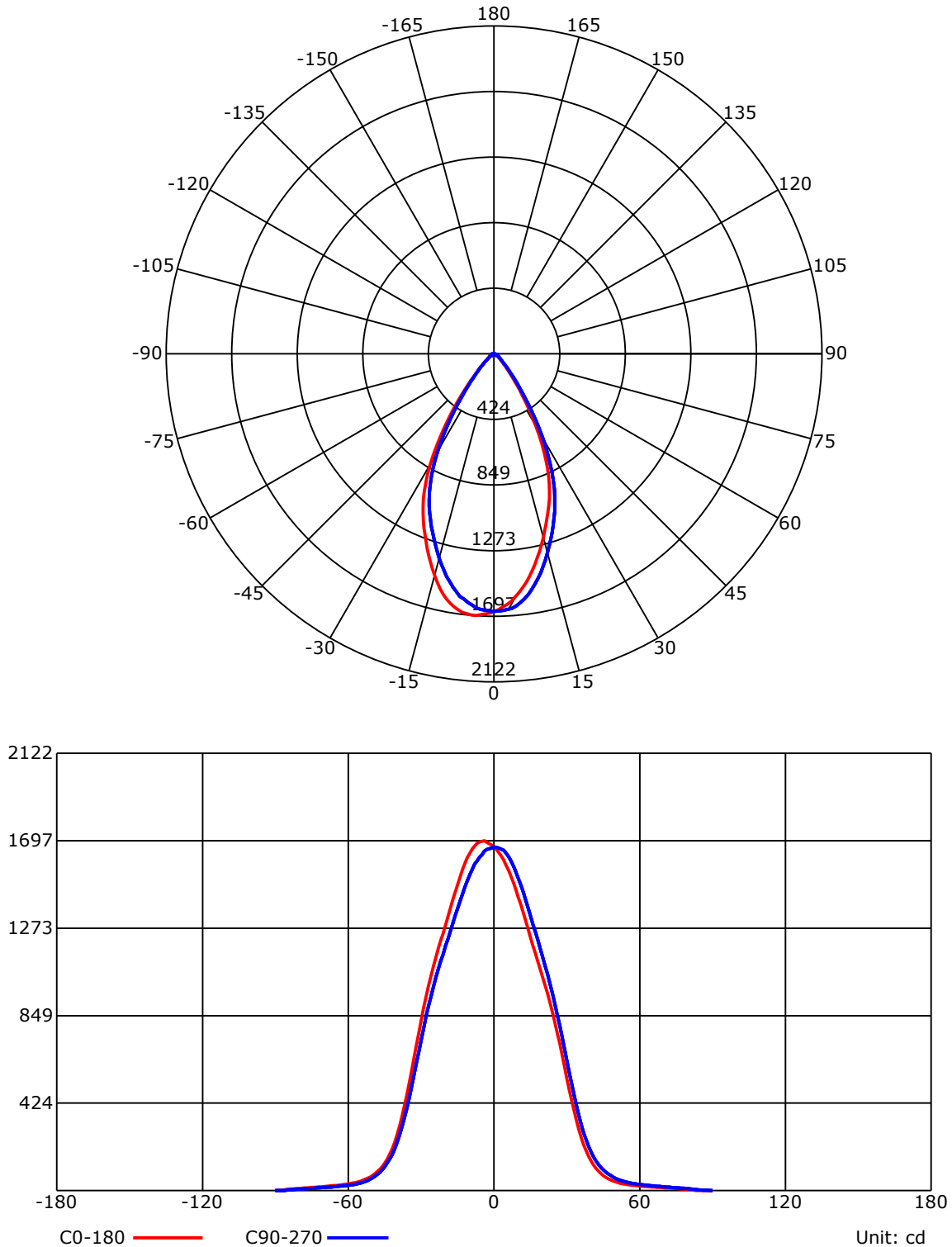
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 18:09:42

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.:

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Luminous Intensity Distribution Curve



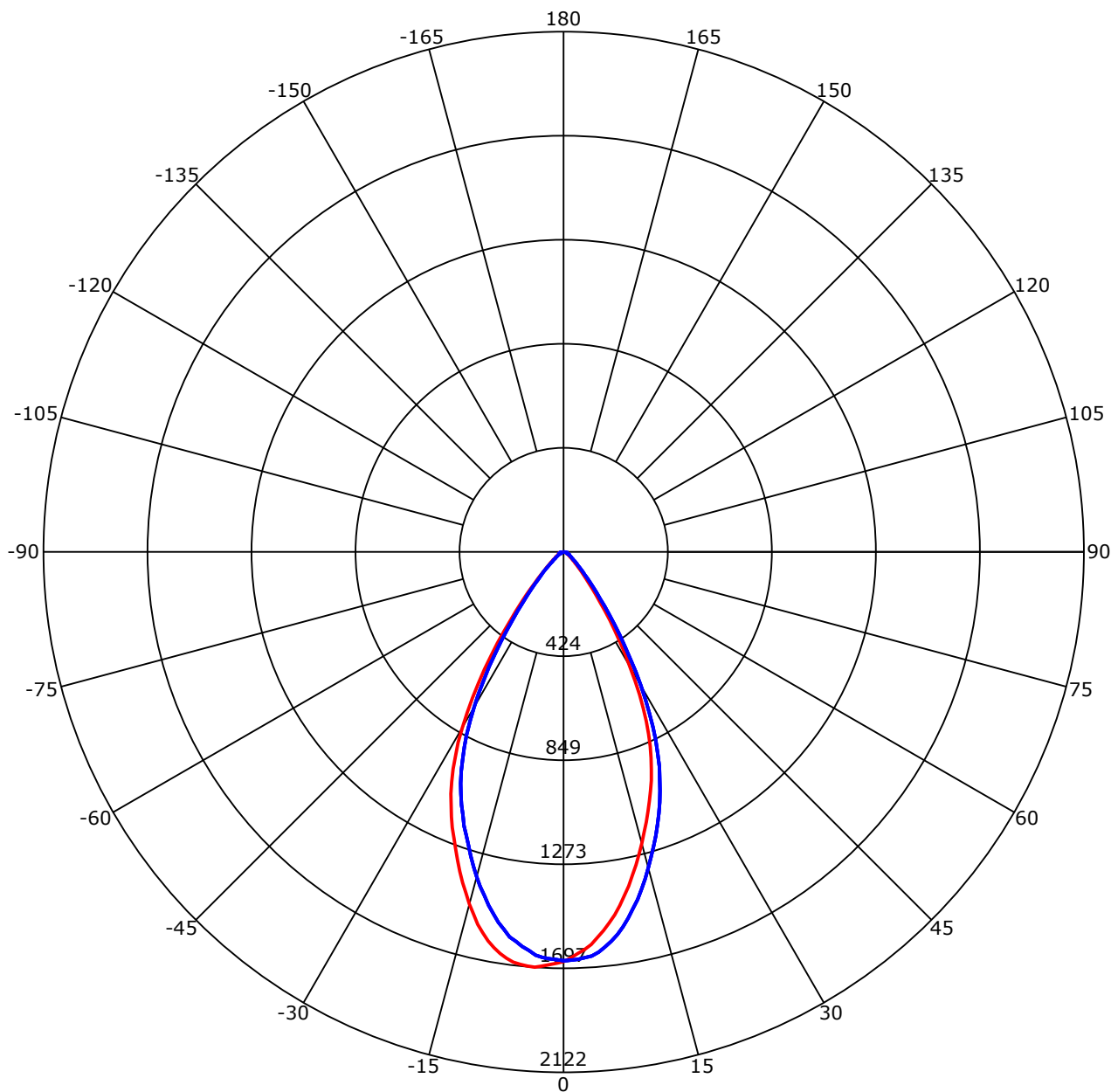
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 18:09:42

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 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: 2025/5/8 18:09:42

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

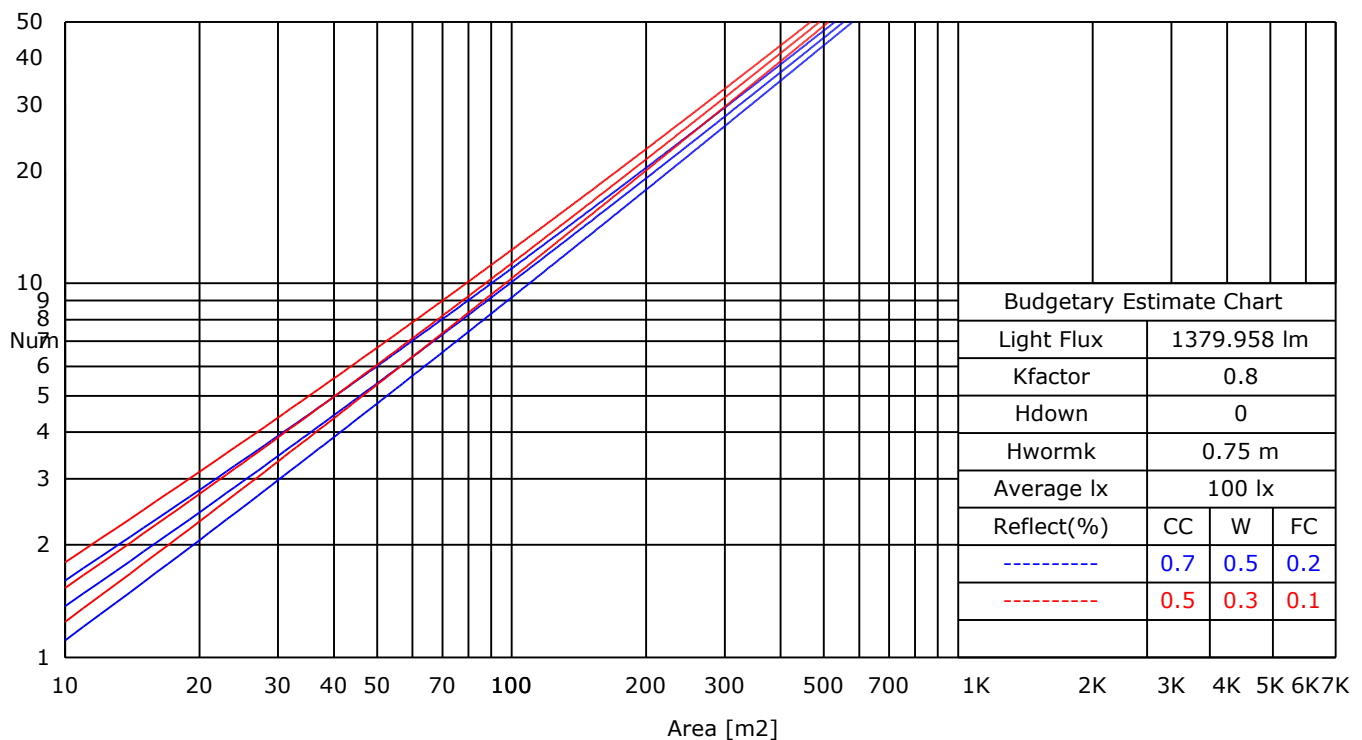
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UTILIZATION FACTORS TABLE

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	1.05	1.04	1.02	1.04	1.02	1.01	1.00	0.98	0.96	0.96	0.93	0.91	0.89	0.87	0.85	0.80
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	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.89	0.86	0.88	0.84	0.82	0.83	0.80	0.77	0.72
4	0.91	0.89	0.88	0.90	0.88	0.86	0.87	0.84	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.64
7	0.80	0.79	0.78	0.80	0.77	0.76	0.78	0.75	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
8	0.77	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	0.62	0.59
9	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.67	0.64	0.68	0.64	0.60	0.57
10	0.72	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



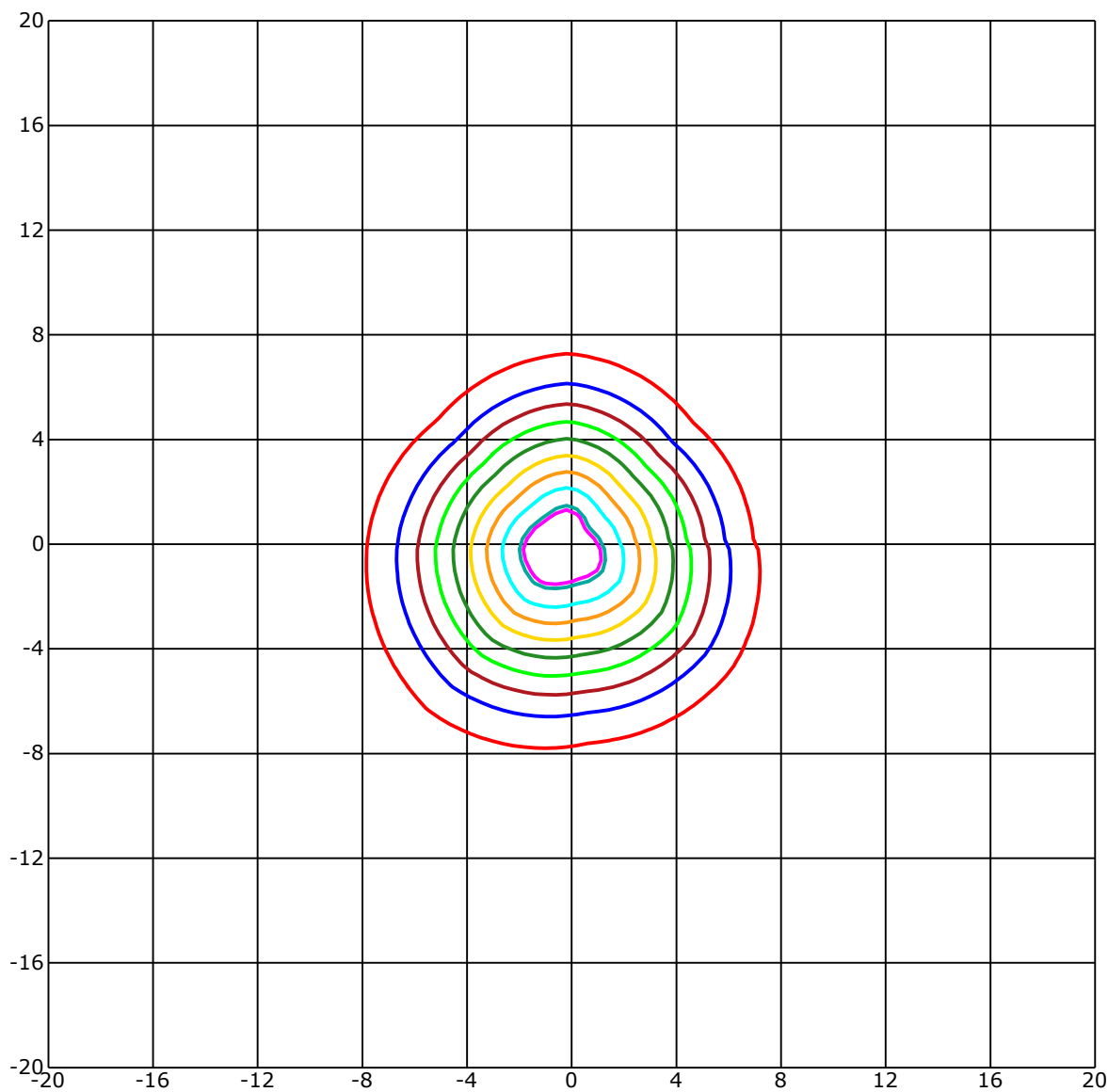
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Temperature: 25
Operators: QC01
Test Date: 2025/5/8 18:09:42

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 18:09:42

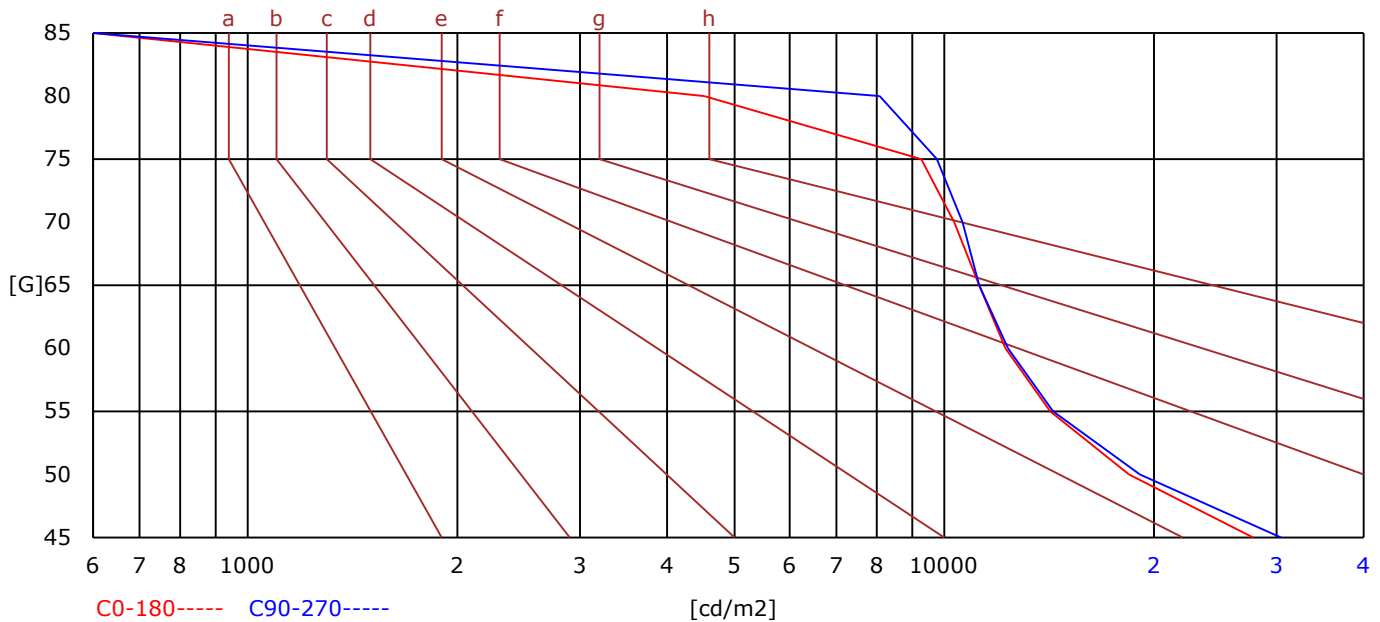
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	27758	18422	14187	12234	11221	10337	9270	4525	0
C90	30437	19098	14334	12346	11221	10624	9757	8080	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



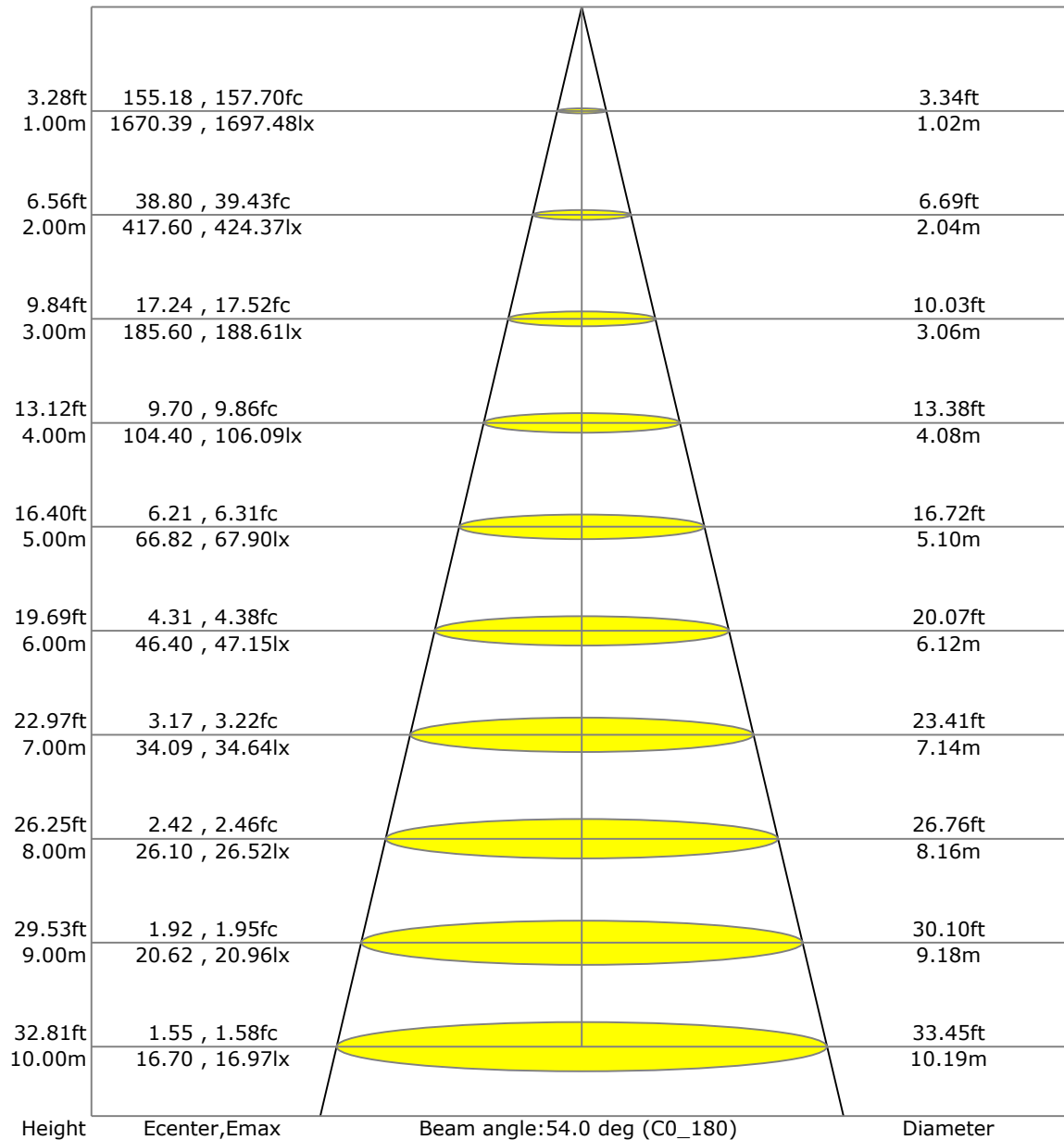
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Temperature: 25
Operators: QC01
Test Date: 2025/5/8 18:09:42

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/5/8 18:09:42

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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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	13.58	13.63	13.78	13.82	14.06	13.87	13.92	14.07	14.11	14.35
3H	13.61	13.66	13.81	13.85	14.10	13.88	13.93	14.09	14.13	14.37
4H	13.60	13.66	13.81	13.85	14.10	13.87	13.93	14.08	14.12	14.37
6H	13.59	13.64	13.81	13.84	14.09	13.86	13.91	14.07	14.11	14.36
8H	13.58	13.63	13.80	13.84	14.09	13.85	13.90	14.07	14.10	14.36
12H	13.57	13.62	13.79	13.83	14.08	13.84	13.89	14.06	14.10	14.35
4H 2H	14.24	14.30	14.45	14.49	14.74	14.74	14.80	14.95	14.99	15.24
3H	14.35	14.40	14.57	14.61	14.86	14.83	14.89	15.05	15.09	15.35
4H	14.37	14.42	14.60	14.63	14.89	14.84	14.89	15.07	15.10	15.36
6H	14.36	14.41	14.60	14.63	14.89	14.82	14.87	15.06	15.09	15.36
8H	14.35	14.40	14.59	14.62	14.89	14.81	14.86	15.05	15.09	15.35
12H	14.33	14.38	14.58	14.61	14.88	14.80	14.84	15.05	15.08	15.34
8H 4H	14.40	14.45	14.61	14.65	14.90	15.06	15.11	15.27	15.31	15.56
6H	14.54	14.59	14.80	14.82	15.10	15.20	15.25	15.46	15.48	15.76
8H	14.53	14.57	14.79	14.82	15.09	15.19	15.23	15.45	15.47	15.75
12H	14.51	14.55	14.78	14.81	15.09	15.17	15.21	15.44	15.46	15.74
12H 4H	14.54	14.59	14.79	14.82	15.09	15.26	15.30	15.50	15.53	15.80
6H	14.53	14.57	14.79	14.81	15.09	15.24	15.28	15.50	15.53	15.80

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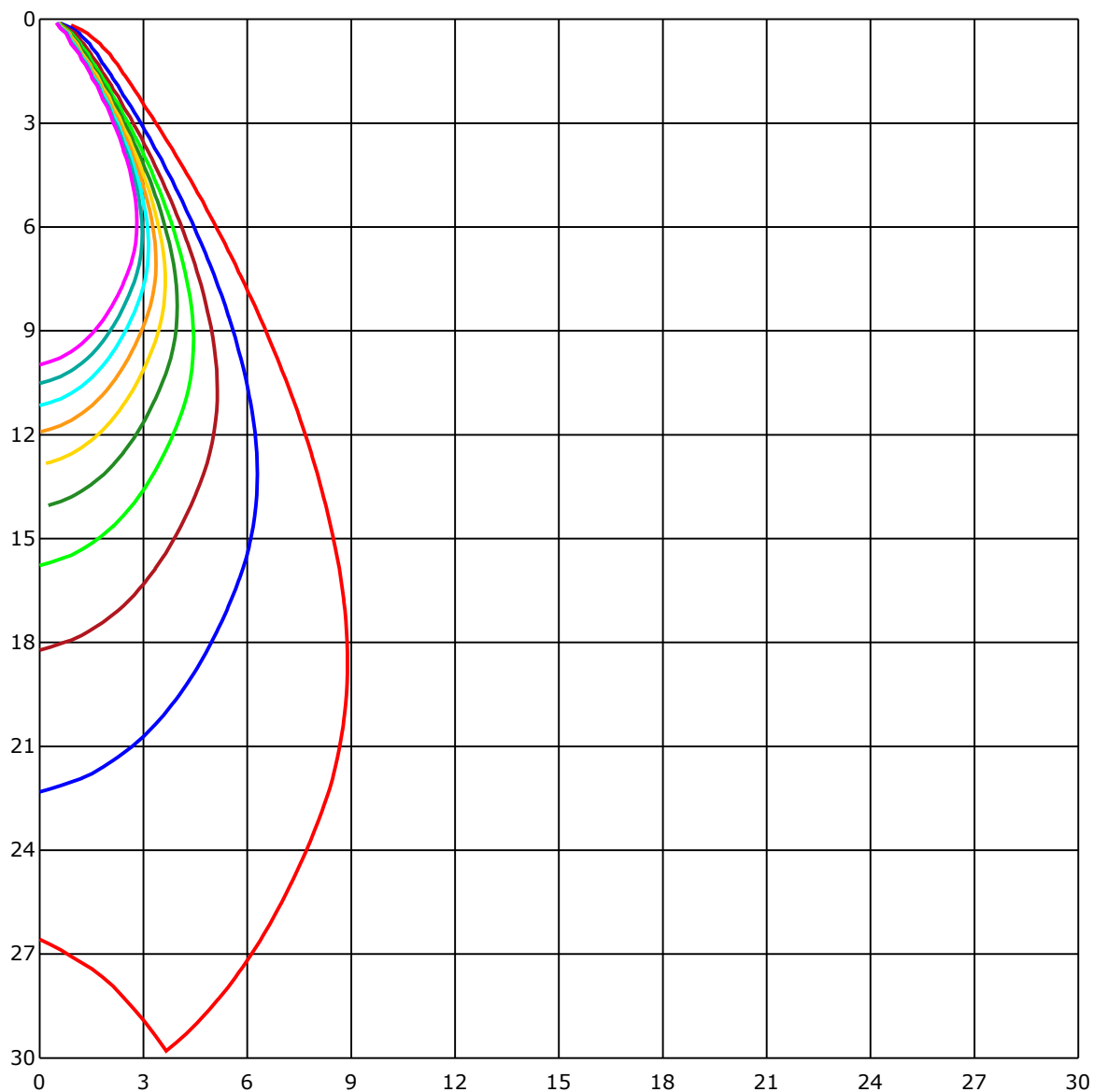
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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
C Interval: 45.0 Deg
Test Speed: High
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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.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1670.39	1638.25	1666.24	1674.74	1670.39	1638.25	1666.24	1674.74	1670.39	
G1	1655.62	1627.73	1664.92	1672.85	1677.66	1650.62	1661.85	1670.87	1655.62	
G2	1637.92	1605.26	1661.76	1672.28	1683.7	1662.04	1659.63	1669.97	1637.92	
G3	1623.62	1586.15	1655.9	1664.21	1690.36	1673.56	1655.29	1661.66	1623.62	
G4	1604.08	1560.85	1650.85	1656.09	1697.48	1674.12	1647.93	1650.05	1604.08	
G5	1577.93	1536.5	1637.03	1641.51	1695.12	1676.48	1630.13	1636.6	1577.93	
G6	1552.16	1506.05	1618.95	1626.74	1690.55	1674.55	1617.25	1625.56	1552.16	
G7	1523.47	1474.15	1598.37	1601.53	1684.65	1670.25	1599.31	1606.02	1523.47	
G8	1493.69	1436.77	1574.91	1575.39	1672.19	1662.61	1585.16	1588.51	1493.69	
G9	1459.85	1401.47	1546.74	1543.06	1657.37	1653.83	1558.63	1566.61	1459.85	
G10	1423.6	1364.13	1515.82	1509.03	1637.5	1641.51	1533.43	1544.61	1423.6	
G11	1387.68	1326.0	1481.7	1473.87	1615.69	1624.09	1502.42	1515.49	1387.68	
G12	1348.46	1284.98	1448.85	1435.68	1587.56	1602.85	1473.44	1487.6	1348.46	
G13	1310.04	1249.96	1410.48	1396.65	1557.78	1577.51	1437.81	1452.25	1310.04	
G14	1270.07	1206.49	1372.82	1355.78	1521.72	1551.65	1405.67	1421.19	1270.07	
G15	1229.95	1168.36	1334.02	1312.69	1485.95	1524.79	1370.6	1384.52	1229.95	
G16	1189.79	1127.25	1293.76	1274.98	1446.44	1491.09	1333.45	1353.23	1189.79	
G17	1150.85	1089.4	1254.78	1231.37	1409.63	1457.25	1295.32	1313.73	1150.85	
G18	1111.91	1045.65	1216.5	1190.21	1369.32	1423.03	1257.51	1277.24	1111.91	
G19	1073.49	1002.27	1175.06	1145.99	1329.68	1384.76	1220.75	1239.01	1073.49	
G20	1036.21	957.72	1134.33	1106.72	1288.24	1345.35	1188.09	1205.55	1036.21	
G21	997.98	912.6	1093.79	1060.89	1248.41	1309.76	1147.64	1165.62	997.98	
G22	955.69	863.33	1049.8	1020.68	1211.59	1274.65	1111.11	1131.12	955.69	
G23	911.84	811.98	1003.83	970.32	1172.32	1236.51	1072.93	1096.95	911.84	
G24	866.96	757.09	959.09	922.61	1129.28	1196.11	1033.14	1061.27	866.96	
G25	818.39	703.38	909.11	868.09	1088.36	1161.89	987.64	1021.11	818.39	
G26	767.7	647.87	856.1	813.49	1042.11	1119.37	941.44	982.69	767.7	
G27	715.03	591.24	801.73	753.73	992.36	1076.89	893.48	938.84	715.03	
G28	658.82	535.92	745.14	694.6	939.45	1029.08	845.01	893.34	658.82	
G29	601.71	481.97	688.27	630.55	887.73	982.59	787.2	841.85	601.71	
G30	542.86	430.25	630.03	568.63	827.6	930.82	731.03	788.66	542.86	
G31	487.97	381.68	571.93	507.56	765.72	876.54	673.59	731.6	487.97	
G32	434.12	337.03	513.88	451.49	702.67	819.01	615.26	670.86	434.12	
G33	384.09	297.01	459.65	397.26	639.9	762.42	557.49	609.74	384.09	
G34	336.56	260.76	408.21	348.74	577.41	704.08	500.95	549.89	336.56	
G35	292.81	228.34	360.49	302.15	518.08	646.36	446.11	491.74	292.81	
G36	254.06	199.55	317.07	261.05	460.36	585.24	394.85	433.88	254.06	

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	219.61	175.34	276.9	223.81	404.67	528.04	346.47	380.03	219.61	
G38	190.06	154.15	242.36	192.33	353.27	472.72	304.0	331.42	190.06	
G39	164.58	135.83	212.29	166.09	308.48	422.08	266.0	287.67	164.58	
G40	143.01	119.6	186.52	143.71	268.27	372.01	231.69	248.68	143.01	
G41	123.99	105.86	163.73	124.27	232.92	327.45	200.35	214.65	123.99	
G42	107.47	93.07	144.28	107.99	201.67	287.24	174.06	184.96	107.47	
G43	94.16	82.59	126.53	94.02	174.72	250.66	152.07	159.86	94.16	
G44	82.69	73.39	112.14	82.5	152.12	218.19	133.33	138.9	82.69	
G45	72.82	66.03	100.15	72.4	133.33	192.23	116.15	121.44	72.82	
G46	64.61	59.28	89.82	64.19	117.19	168.87	101.61	106.95	64.61	
G47	57.77	53.47	80.99	56.92	103.88	149.47	89.2	94.25	57.77	
G48	51.59	47.86	73.3	51.02	92.08	131.96	78.68	83.73	51.59	
G49	46.21	43.33	66.08	45.59	82.31	117.0	69.8	74.19	46.21	
G50	42.05	39.83	59.75	41.3	73.63	103.93	62.3	66.64	42.05	
G51	38.75	36.81	54.75	37.76	66.31	93.03	55.46	60.13	38.75	
G52	35.4	33.89	50.64	34.64	60.13	83.16	49.32	54.98	35.4	
G53	32.85	31.62	46.3	31.91	54.94	75.0	44.08	50.26	32.85	
G54	30.54	29.26	42.76	29.59	50.31	67.59	39.98	46.06	30.54	
G55	28.7	27.37	39.83	27.66	45.88	61.26	36.53	42.85	28.7	
G56	27.04	25.49	37.33	25.82	42.43	55.65	33.79	40.12	27.04	
G57	25.44	24.12	35.16	24.12	39.46	51.07	31.06	37.57	25.44	
G58	24.12	22.89	33.09	22.75	37.0	46.49	28.93	35.54	24.12	
G59	22.94	21.71	31.15	21.66	34.88	43.33	27.04	33.7	22.94	
G60	21.71	20.58	29.73	20.77	32.8	40.16	25.39	32.28	21.71	
G61	20.86	19.68	28.13	19.54	31.06	37.43	24.02	30.63	20.86	
G62	20.01	18.64	26.86	18.64	29.26	35.02	22.7	29.17	20.01	
G63	19.07	17.89	25.58	17.84	27.75	32.9	21.52	28.13	19.07	
G64	18.31	16.75	24.59	16.94	26.29	30.96	20.48	26.86	18.31	
G65	17.6	15.95	23.46	15.95	25.2	29.55	19.26	25.68	17.6	
G66	16.71	15.06	22.28	15.2	24.12	27.85	18.36	24.68	16.71	
G67	16.0	14.3	21.19	14.3	22.98	26.38	17.46	23.74	16.0	
G68	15.24	13.4	20.25	13.64	21.71	25.01	16.61	22.94	15.24	
G69	14.54	12.84	19.3	12.79	21.0	23.83	15.72	21.9	14.54	
G70	13.73	11.89	18.36	12.22	19.73	22.7	15.15	21.05	13.73	
G71	13.22	11.09	17.37	11.28	18.88	21.66	14.16	20.06	13.22	
G72	12.37	10.24	16.47	10.81	18.03	20.48	13.4	19.26	12.37	
G73	11.7	9.68	15.53	9.96	17.04	19.54	12.55	18.36	11.7	

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