

Report No.: MSL-173-1

Test Time: 2020-05-12 08:43

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Exterior

Luminaire Description: Bala Stil Led de piso 3" 6W Epistar

Luminous Length (mm): 50 Diametro

Luminous Width (mm): 50 Diametro

Voltage: 209.7 V

Current: 0.063 A

Power: 5.55 W

Power Factor: 0.418

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 237.6 lm

Measurement Flux: 237.6 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 78.9, 78.9, 79.1, 79.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 35.0, 35.8, 35.5, 35.3

Luminaire Efficacy Rating (LER): 42.87

Central Intensity: 392.48 cd

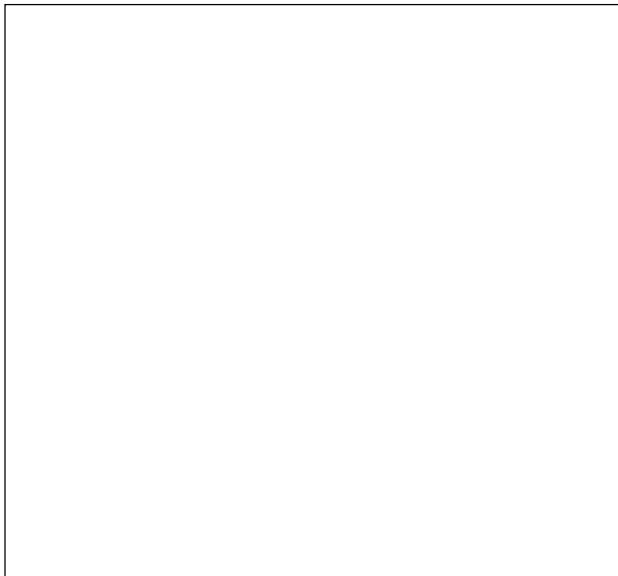
Max. Intensity: 402.11 cd

Pos of Max. Intensity: H240 V4

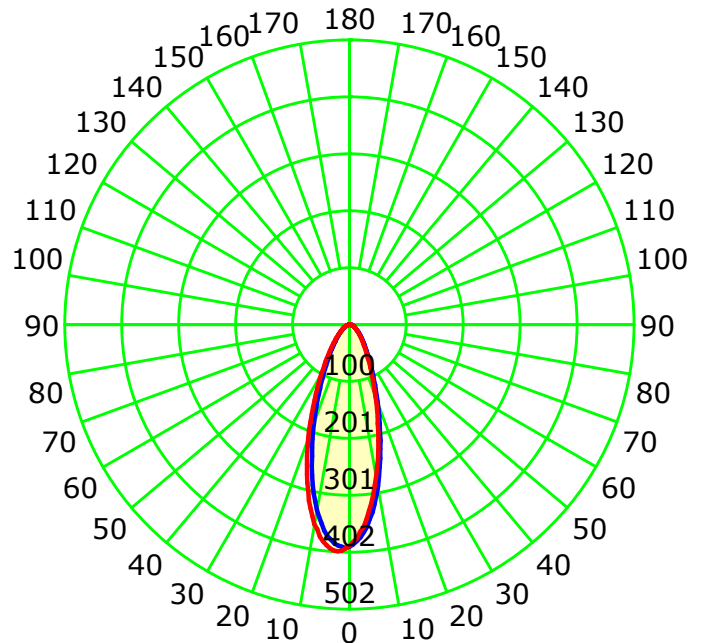
S/MH(C0/C180): 0.57

S/MH(C90/C270): 0.59

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 10.0

Test Lab: LABORATORIO STAND

Test Type: TYPE C

Temperature: 24.6

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

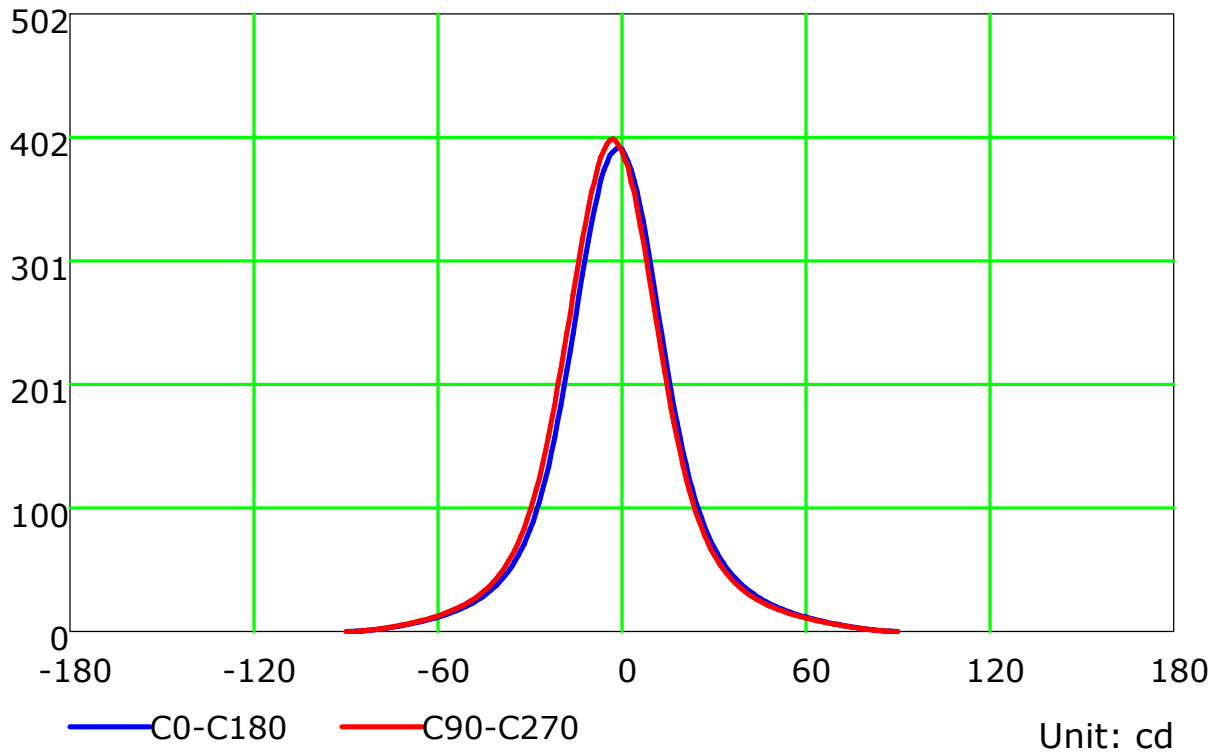
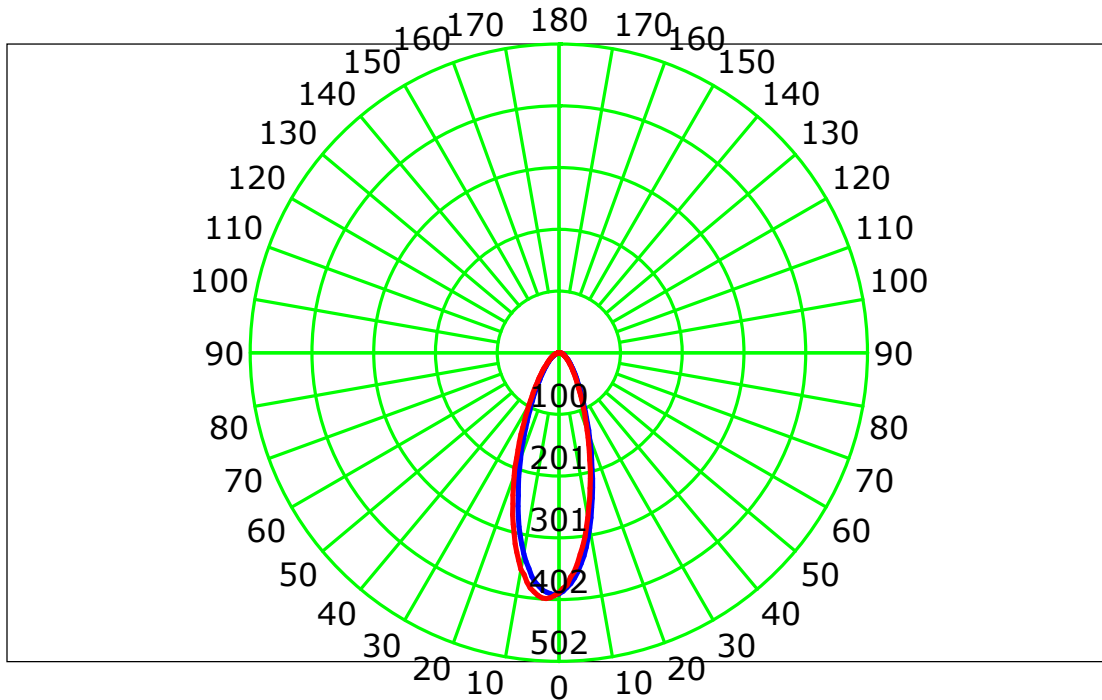
Test Device: LSG-1700B — C90-C270

Distance: 11.700 m

Humidity:

Inspector:

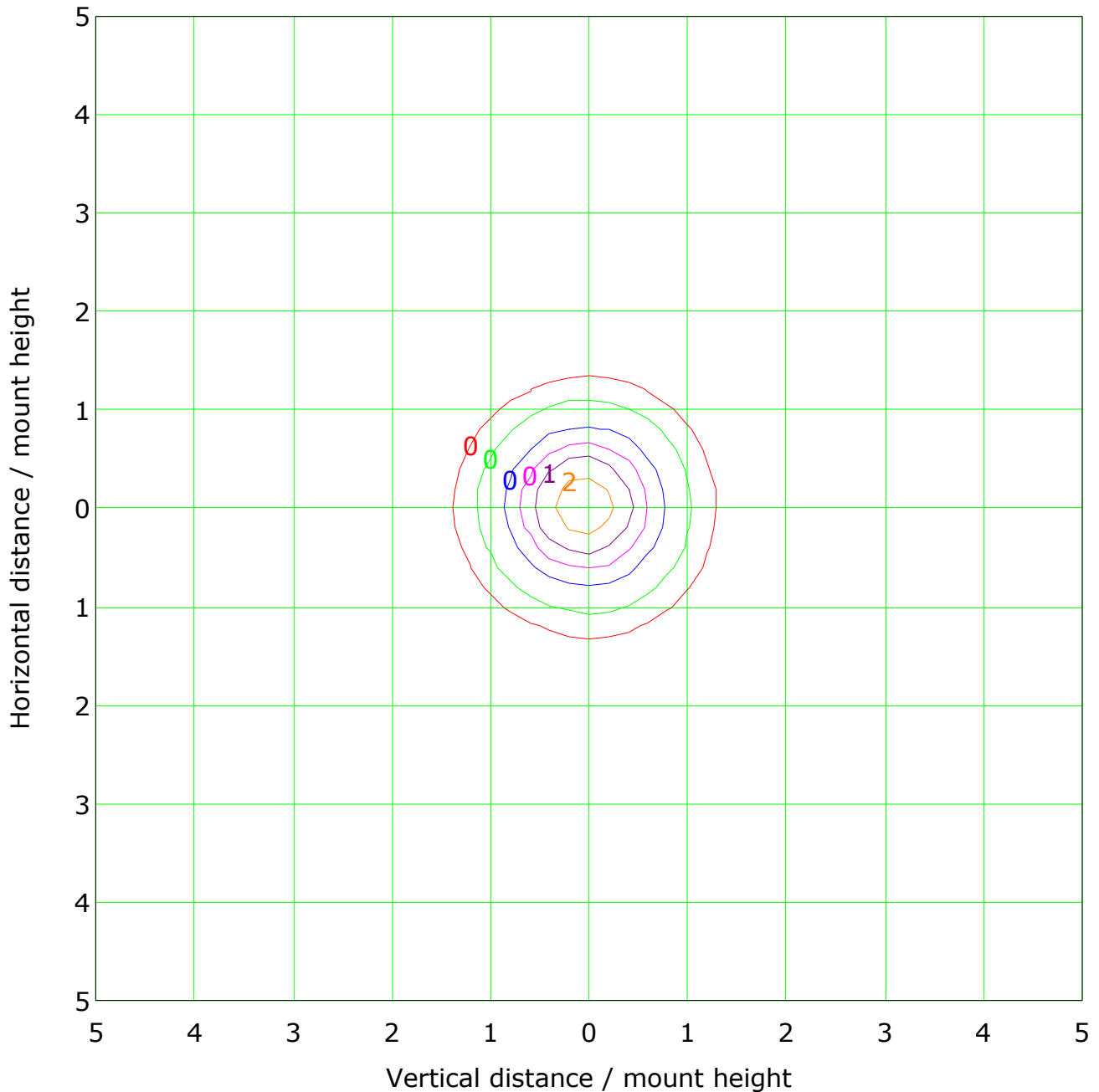
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 24.6
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 4.0 lx

— (1%): 0.0 lx

— (2%): 0.1 lx

— (5%): 0.2 lx

— (10%): 0.4 lx

C Plane (°):0.0-360.0: 10.0, \, 0.8 lx

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND (100%): 4.0 lx

Test Device: LSG-1700B lx

Test Type: TYPE C

Distance: 11.700 m

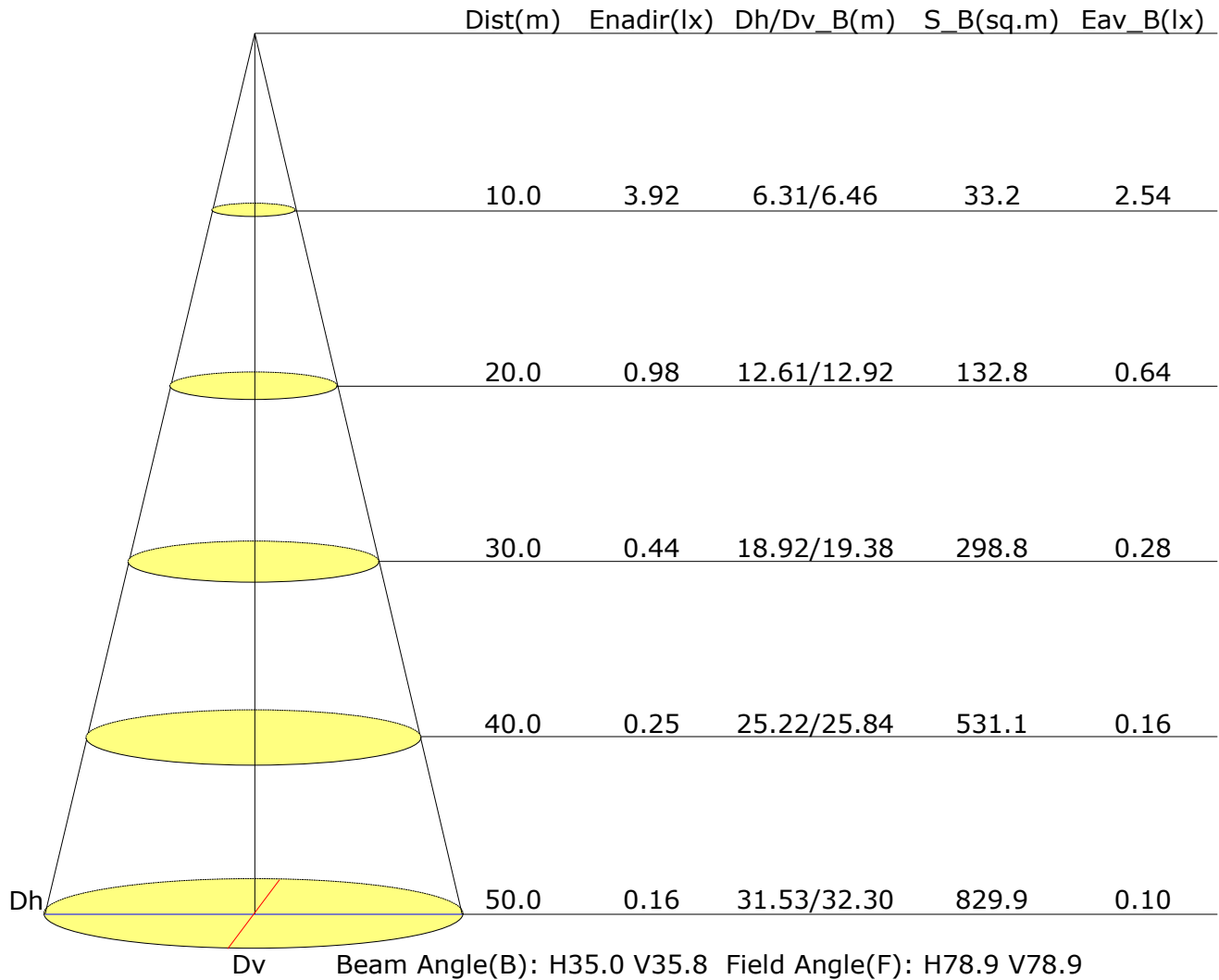
Temperature: 24.6

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

Illuminance at a Distance



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	390.4	0.4	0.4	0.16	0.16
1.0-2.0	388.6	1.1	1.5	0.47	0.63
2.0-3.0	385.0	1.8	3.3	0.77	1.40
3.0-4.0	379.7	2.5	5.9	1.07	2.47
4.0-5.0	373.3	3.2	9.1	1.35	3.82
5.0-6.0	364.8	3.8	12.9	1.61	5.44
6.0-7.0	355.0	4.4	17.3	1.85	7.29
7.0-8.0	344.1	4.9	22.3	2.07	9.36
8.0-9.0	331.8	5.4	27.6	2.26	11.63
9.0-10.0	319.0	5.8	33.4	2.43	14.06
10.0-11.0	305.1	6.1	39.5	2.57	16.62
11.0-12.0	290.6	6.4	45.9	2.67	19.30
12.0-13.0	276.3	6.6	52.4	2.76	22.06
13.0-14.0	261.2	6.7	59.1	2.81	24.87
14.0-15.0	246.2	6.8	65.9	2.84	27.71
15.0-16.0	231.3	6.8	72.6	2.85	30.57
16.0-17.0	216.6	6.7	79.4	2.84	33.41
17.0-18.0	202.8	6.7	86.1	2.81	36.22
18.0-19.0	189.0	6.6	92.6	2.77	38.99
19.0-20.0	175.7	6.4	99.1	2.71	41.69
20.0-21.0	163.5	6.3	105.4	2.64	44.34
21.0-22.0	151.6	6.1	111.5	2.56	46.90
22.0-23.0	140.3	5.9	117.3	2.48	49.38
23.0-24.0	129.9	5.7	123.0	2.39	51.77
24.0-25.0	120.1	5.5	128.5	2.30	54.06
25.0-26.0	111.2	5.3	133.7	2.21	56.27
26.0-27.0	102.8	5.0	138.8	2.12	58.39
27.0-28.0	95.0	4.8	143.6	2.03	60.42
28.0-29.0	88.2	4.6	148.2	1.94	62.36
29.0-30.0	81.6	4.4	152.6	1.85	64.21
30.0-31.0	75.7	4.2	156.8	1.77	65.98
31.0-32.0	70.2	4.0	160.8	1.69	67.68
32.0-33.0	65.2	3.8	164.7	1.62	69.29
33.0-34.0	60.8	3.7	168.3	1.55	70.84
34.0-35.0	56.6	3.5	171.9	1.48	72.32
35.0-36.0	52.7	3.4	175.2	1.41	73.73

C Plane (°):0.0-360.0: 10.0
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 Test Type: TYPE C
 Temperature: 24.6
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	49.2	3.2	178.4	1.35	75.08
37.0-38.0	46.0	3.1	181.5	1.29	76.37
38.0-39.0	43.1	2.9	184.4	1.24	77.61
39.0-40.0	40.4	2.8	187.2	1.18	78.80
40.0-41.0	37.9	2.7	189.9	1.13	79.93
41.0-42.0	35.6	2.6	192.5	1.09	81.02
42.0-43.0	33.4	2.5	195.0	1.04	82.06
43.0-44.0	31.4	2.4	197.4	1.00	83.06
44.0-45.0	29.6	2.3	199.7	0.96	84.02
45.0-46.0	27.8	2.2	201.8	0.92	84.93
46.0-47.0	26.3	2.1	203.9	0.88	85.81
47.0-48.0	24.8	2.0	205.9	0.84	86.65
48.0-49.0	23.3	1.9	207.8	0.81	87.46
49.0-50.0	22.1	1.8	209.7	0.77	88.24
50.0-51.0	20.8	1.8	211.4	0.74	88.98
51.0-52.0	19.6	1.7	213.1	0.71	89.69
52.0-53.0	18.6	1.6	214.7	0.68	90.37
53.0-54.0	17.5	1.5	216.3	0.65	91.02
54.0-55.0	16.5	1.5	217.8	0.62	91.64
55.0-56.0	15.6	1.4	219.2	0.59	92.23
56.0-57.0	14.7	1.3	220.5	0.57	92.80
57.0-58.0	13.9	1.3	221.8	0.54	93.34
58.0-59.0	13.1	1.2	223.0	0.52	93.85
59.0-60.0	12.3	1.2	224.2	0.49	94.34
60.0-61.0	11.6	1.1	225.3	0.47	94.81
61.0-62.0	10.9	1.0	226.3	0.44	95.25
62.0-63.0	10.2	1.0	227.3	0.42	95.67
63.0-64.0	9.6	0.9	228.3	0.40	96.06
64.0-65.0	9.0	0.9	229.2	0.37	96.44
65.0-66.0	8.4	0.8	230.0	0.35	96.79
66.0-67.0	7.8	0.8	230.8	0.33	97.12
67.0-68.0	7.3	0.7	231.5	0.31	97.43
68.0-69.0	6.7	0.7	232.2	0.29	97.72
69.0-70.0	6.2	0.6	232.8	0.27	97.99
70.0-71.0	5.7	0.6	233.4	0.25	98.24
71.0-72.0	5.3	0.5	234.0	0.23	98.47

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Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 m
 Humidity:
 Inspector:

