

Report No.: MSL-13

Test Time: 2020-03-18 11:54

## Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Bala Stil Led Recesada 7W Samsung

Luminous Length (mm): 50 Diametro

Luminous Width (mm): 50 Diametro

Voltage: 205.5 V

Current: 0.034 A

Power: 6.26 W

Power Factor: 0.875

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 609.4 lm

Measurement Flux: 609.4 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.1, 151.9, 152.1, 151.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.0, 104.7, 105.1, 104.7

Luminaire Efficacy Rating (LER): 97.40

Central Intensity: 239.17 cd

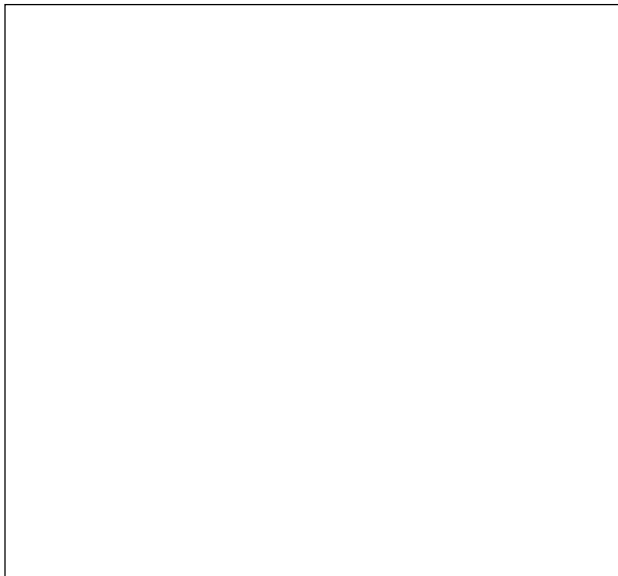
Max. Intensity: 239.81 cd

Pos of Max. Intensity: H320 V1

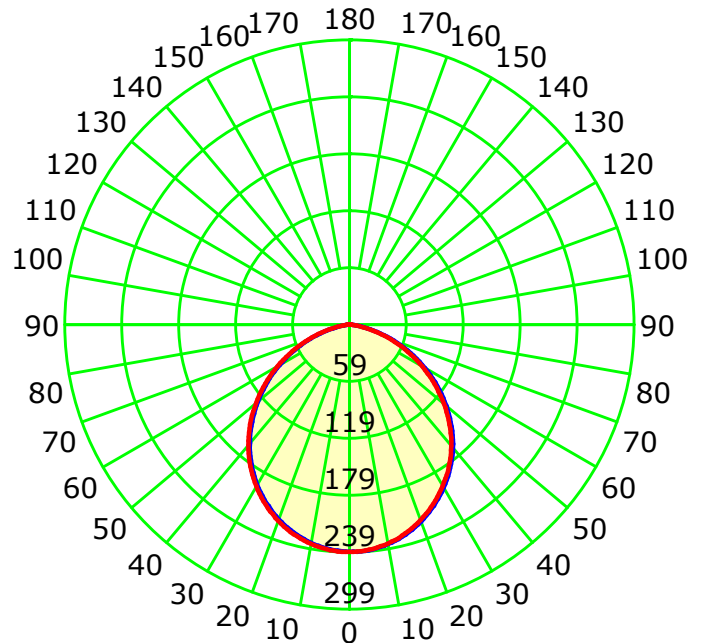
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.22

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: 25.8

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

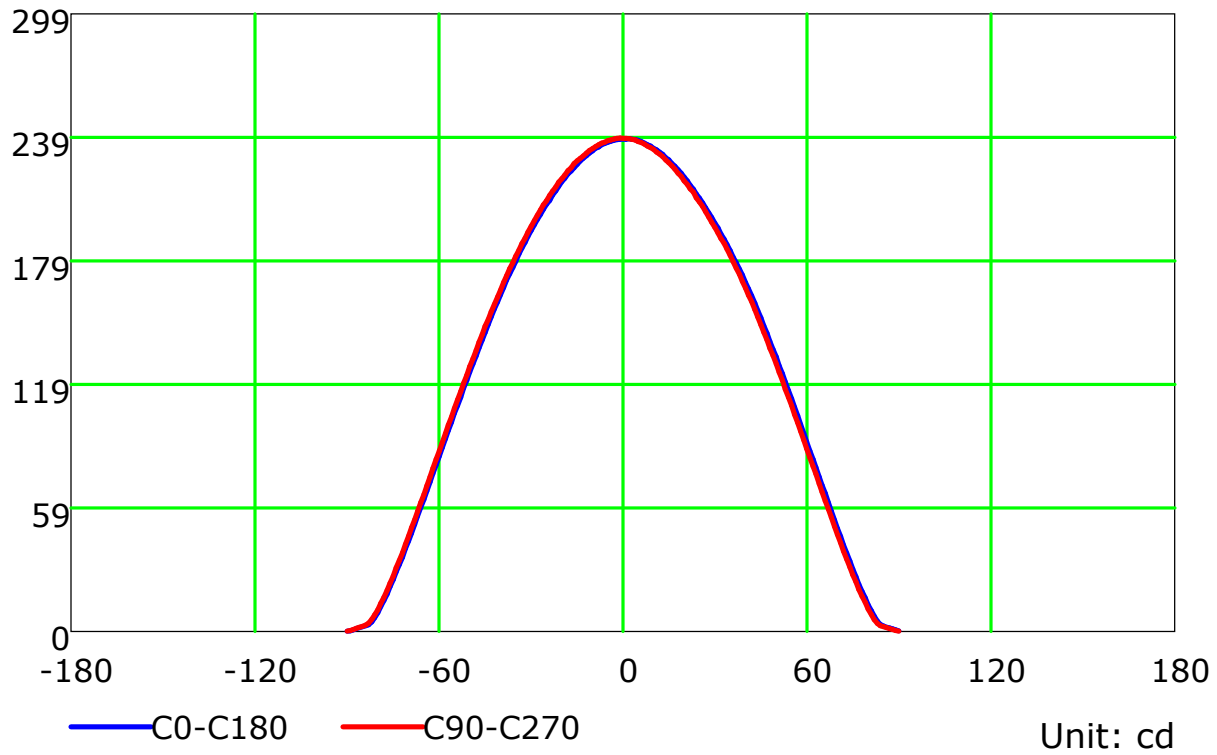
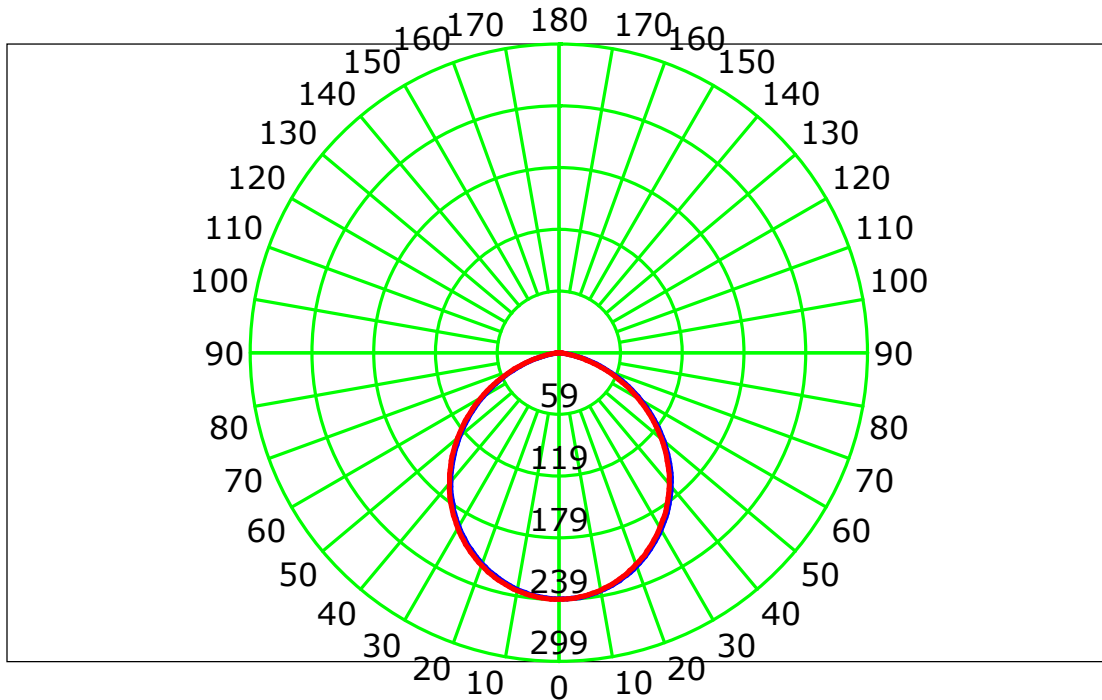
Test Device: LSG-1700B - C90-C270

Distance: 11.700 m

Humidity:

Inspector:

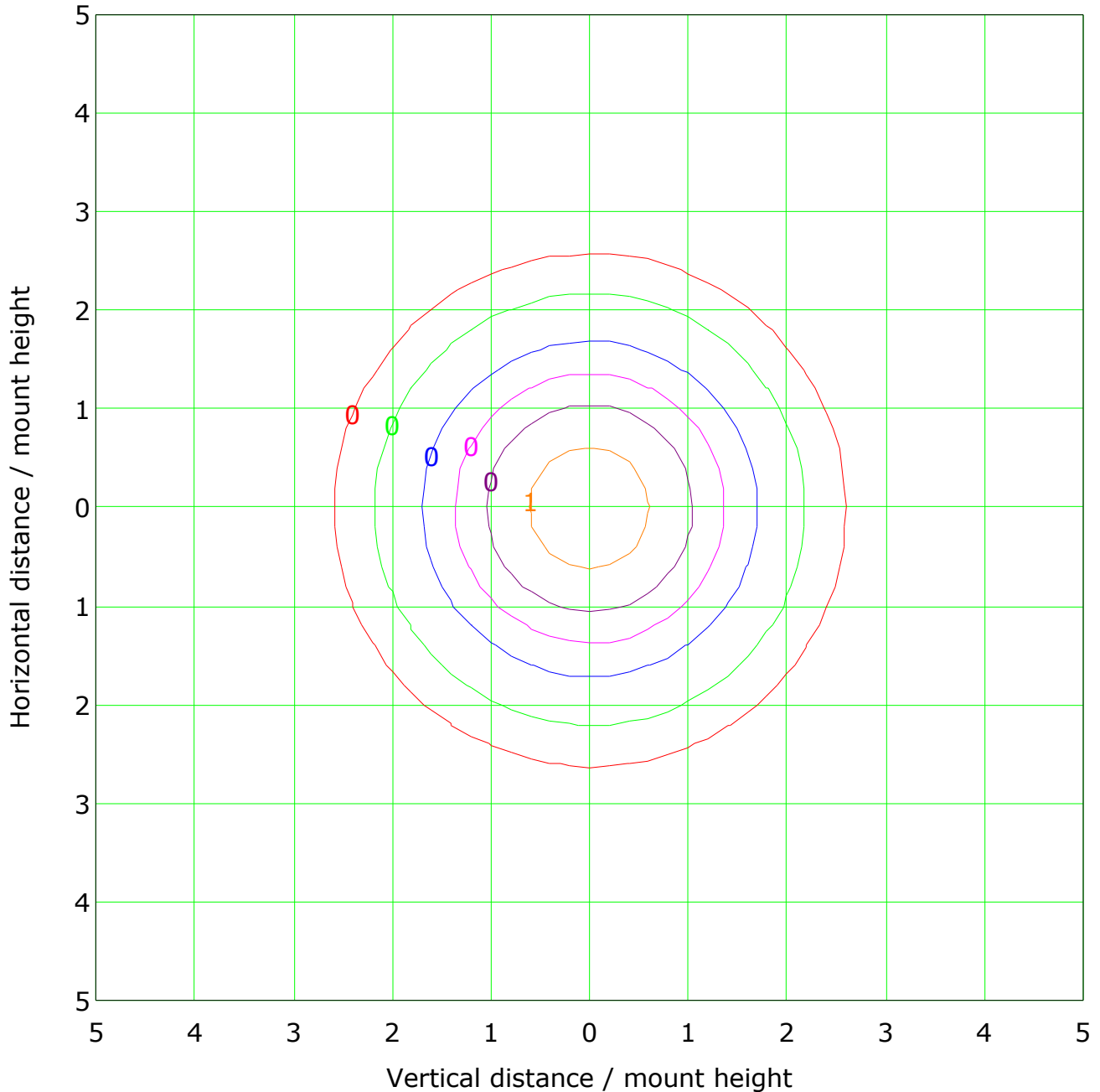
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0  
 Test Lab: LABORATORIO STAND  
 Test Type: TYPE C  
 Temperature: 25.8  
 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%): 2.4 lx

— ( 1%): 0.0 lx

— ( 2%): 0.0 lx

— ( 5%): 0.1 lx

— ( 10%): 0.5 lx

C Plane (°):0.0-360.0: 10.0, \, 0.5 lx

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND (100%): 2.4 lx

Test Device: LSG-1700B lx

Test Type: TYPE C

Distance: 11.700 m

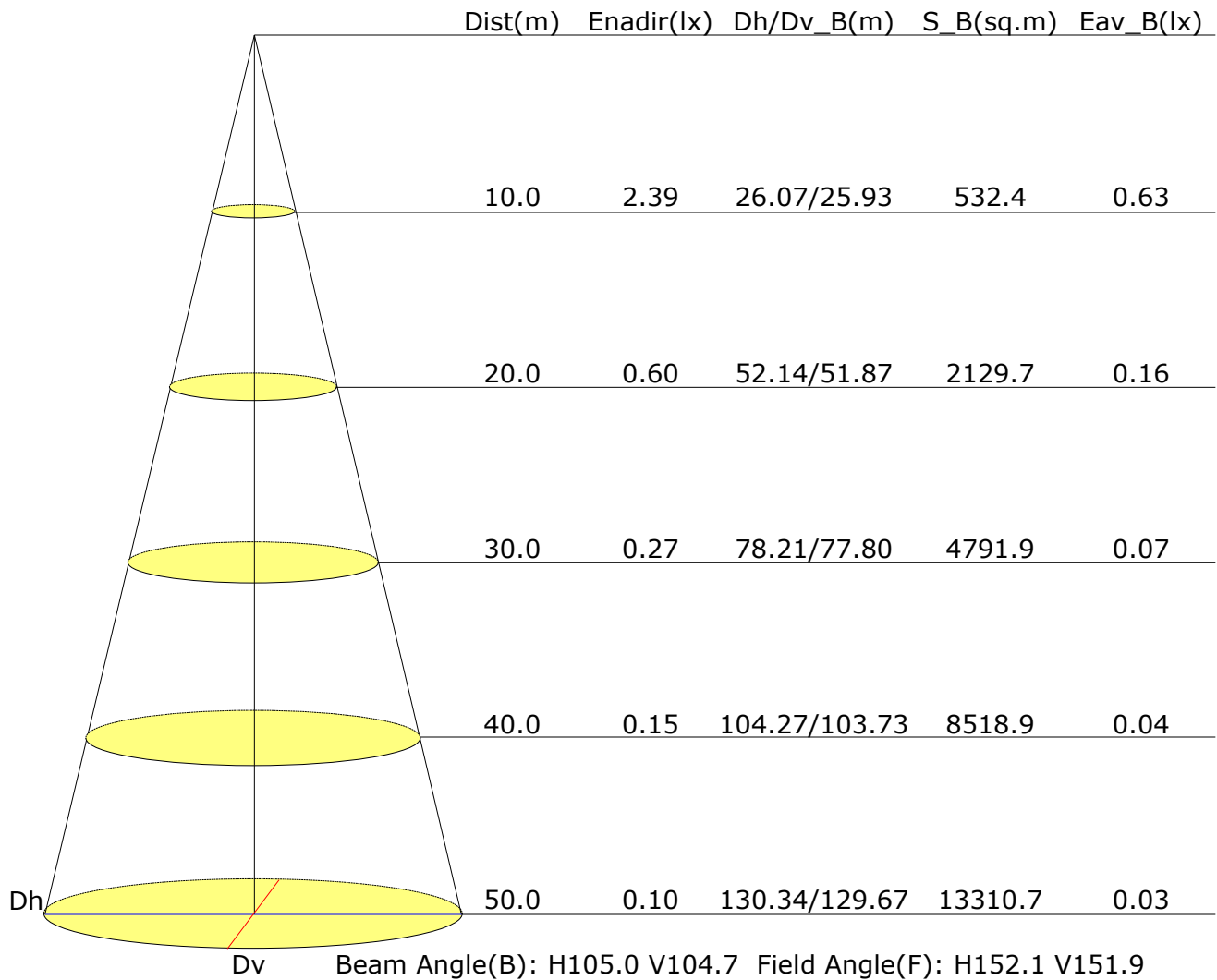
Temperature: 25.8

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0  
 Test Lab: LABORATORIO STAND  
 Test Type: TYPE C  
 Temperature: 25.8  
 Operator: Cristian Herrera Arismendy

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

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	239.3	0.2	0.2	0.04	0.04
1.0-2.0	239.2	0.7	0.9	0.11	0.15
2.0-3.0	239.0	1.1	2.1	0.19	0.34
3.0-4.0	238.7	1.6	3.7	0.26	0.60
4.0-5.0	238.3	2.1	5.7	0.34	0.94
5.0-6.0	237.8	2.5	8.2	0.41	1.35
6.0-7.0	237.2	2.9	11.2	0.48	1.83
7.0-8.0	236.5	3.4	14.5	0.56	2.39
8.0-9.0	235.6	3.8	18.4	0.63	3.01
9.0-10.0	234.7	4.2	22.6	0.70	3.71
10.0-11.0	233.7	4.7	27.3	0.77	4.48
11.0-12.0	232.5	5.1	32.4	0.83	5.31
12.0-13.0	231.4	5.5	37.8	0.90	6.21
13.0-14.0	230.1	5.9	43.7	0.97	7.18
14.0-15.0	228.7	6.3	50.0	1.03	8.21
15.0-16.0	227.2	6.7	56.7	1.09	9.30
16.0-17.0	225.6	7.0	63.7	1.15	10.45
17.0-18.0	224.0	7.4	71.1	1.21	11.66
18.0-19.0	222.2	7.7	78.8	1.27	12.93
19.0-20.0	220.4	8.1	86.9	1.32	14.26
20.0-21.0	218.5	8.4	95.3	1.38	15.63
21.0-22.0	216.5	8.7	104.0	1.43	17.06
22.0-23.0	214.4	9.0	113.0	1.48	18.54
23.0-24.0	212.3	9.3	122.3	1.52	20.06
24.0-25.0	210.0	9.6	131.8	1.57	21.63
25.0-26.0	207.8	9.8	141.6	1.61	23.24
26.0-27.0	205.4	10.0	151.7	1.65	24.89
27.0-28.0	202.9	10.3	161.9	1.69	26.57
28.0-29.0	200.4	10.5	172.4	1.72	28.29
29.0-30.0	197.8	10.7	183.1	1.75	30.05
30.0-31.0	195.2	10.9	194.0	1.78	31.83
31.0-32.0	192.4	11.0	205.0	1.81	33.64
32.0-33.0	189.6	11.2	216.2	1.83	35.47
33.0-34.0	186.9	11.3	227.5	1.86	37.33
34.0-35.0	184.0	11.4	238.9	1.88	39.20
35.0-36.0	181.0	11.5	250.4	1.89	41.09

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 Test Type: TYPE C  
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 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 [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	177.9	11.6	262.0	1.90	43.00
37.0-38.0	174.8	11.7	273.7	1.91	44.91
38.0-39.0	171.6	11.7	285.4	1.92	46.84
39.0-40.0	168.2	11.7	297.2	1.93	48.76
40.0-41.0	164.8	11.7	308.9	1.93	50.69
41.0-42.0	161.4	11.7	320.6	1.92	52.61
42.0-43.0	157.8	11.7	332.3	1.92	54.53
43.0-44.0	154.2	11.6	344.0	1.91	56.44
44.0-45.0	150.6	11.6	355.5	1.90	58.34
45.0-46.0	146.8	11.5	367.0	1.88	60.22
46.0-47.0	143.1	11.4	378.4	1.87	62.09
47.0-48.0	139.2	11.3	389.6	1.85	63.94
48.0-49.0	135.3	11.1	400.8	1.82	65.76
49.0-50.0	131.5	11.0	411.7	1.80	67.56
50.0-51.0	127.5	10.8	422.5	1.77	69.33
51.0-52.0	123.5	10.6	433.1	1.74	71.07
52.0-53.0	119.5	10.4	443.5	1.71	72.78
53.0-54.0	115.4	10.2	453.7	1.67	74.45
54.0-55.0	111.4	9.9	463.6	1.63	76.08
55.0-56.0	107.2	9.7	473.3	1.59	77.67
56.0-57.0	103.0	9.4	482.7	1.55	79.21
57.0-58.0	99.0	9.2	491.9	1.50	80.72
58.0-59.0	94.8	8.9	500.8	1.45	82.17
59.0-60.0	90.6	8.6	509.3	1.40	83.57
60.0-61.0	86.4	8.2	517.6	1.35	84.93
61.0-62.0	82.1	7.9	525.5	1.30	86.23
62.0-63.0	78.0	7.6	533.1	1.24	87.47
63.0-64.0	73.8	7.2	540.3	1.19	88.66
64.0-65.0	69.5	6.9	547.2	1.13	89.79
65.0-66.0	65.4	6.5	553.7	1.07	90.86
66.0-67.0	61.3	6.2	559.9	1.01	91.87
67.0-68.0	57.1	5.8	565.7	0.95	92.82
68.0-69.0	53.0	5.4	571.1	0.89	93.71
69.0-70.0	48.9	5.0	576.1	0.82	94.53
70.0-71.0	44.9	4.6	580.7	0.76	95.29
71.0-72.0	40.9	4.3	585.0	0.70	95.99

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