



Shenzhen Belling Efficiency Testing Laboratory Co., Ltd.
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LumCAT:

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm): 1256.1

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.05

Current(A): 0.0791

Power (W): 9.2490

PF: 0.9744

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1256.10

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 135.81

Central intensity(cd): 440.928

Maximum intensity(cd): 440.928

Angle of maximum intensity: $C=0.0$ $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=112.3

[C90/270]Total=112.4

Field angle(10%Imax): [C0/180]Total=160.7

[C90/270]Total=158.9

Maximum s/h(1/2): C0_180=1.32 C90_270=1.28

Maximum s/h(1/4): C0_180=1.88 C90_270=1.40

Up flux rate of lamp(%): 0.53%

Down flux rate of lamp(%): 99.47%

Up flux rate of LUM(%): 0.53%

Down flux rate of LUM(%): 99.47%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.940%

Equipment: GMS-3000
Temperature(°C): 25

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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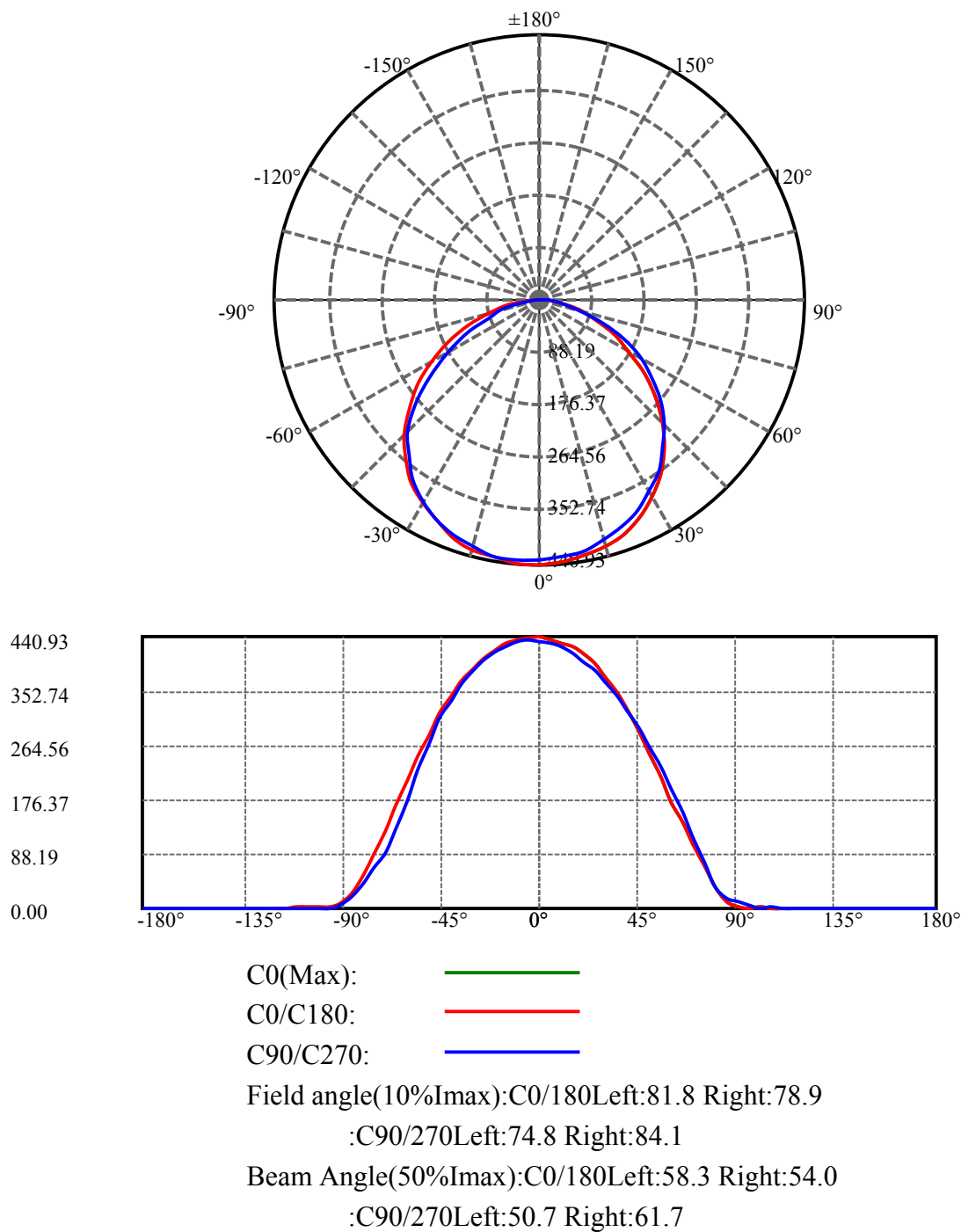
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	434.772	.000	.000	.000%	.000%
5.0	433.161	10.376	10.376	.826%	.826%
10.0	429.181	30.849	41.225	2.456%	3.282%
15.0	421.738	50.476	91.701	4.018%	7.300%
20.0	411.326	68.656	160.357	5.466%	12.766%
25.0	396.465	84.722	245.079	6.745%	19.511%
30.0	379.247	98.167	343.246	7.815%	27.326%
35.0	357.665	108.515	451.762	8.639%	35.965%
40.0	331.958	115.058	566.820	9.160%	45.125%
45.0	302.549	117.484	684.304	9.353%	54.478%
50.0	267.705	115.228	799.532	9.173%	63.652%
55.0	229.205	108.045	907.577	8.602%	72.254%
60.0	188.493	96.550	1004.126	7.686%	79.940%
65.0	147.265	81.623	1085.750	6.498%	86.438%
70.0	106.865	64.347	1150.097	5.123%	91.561%
75.0	71.564	46.639	1196.736	3.713%	95.274%
80.0	40.567	30.003	1226.739	2.389%	97.663%
85.0	17.807	15.862	1242.601	1.263%	98.925%
90.0	7.334	6.884	1249.485	.548%	99.473%
95.0	2.320	2.644	1252.128	.210%	99.684%
100.0	1.142	.941	1253.069	.075%	99.759%
105.0	1.419	.685	1253.754	.055%	99.813%
110.0	.673	.547	1254.301	.044%	99.857%
115.0	.349	.259	1254.560	.021%	99.877%
120.0	.277	.152	1254.712	.012%	99.889%
125.0	.289	.131	1254.842	.010%	99.900%
130.0	.337	.136	1254.978	.011%	99.911%
135.0	.397	.148	1255.126	.012%	99.923%
140.0	.445	.156	1255.282	.012%	99.935%
145.0	.469	.152	1255.435	.012%	99.947%
150.0	.577	.154	1255.589	.012%	99.959%
155.0	.589	.148	1255.736	.012%	99.971%
160.0	.589	.124	1255.860	.010%	99.981%
165.0	.625	.100	1255.960	.008%	99.989%
170.0	.637	.075	1256.035	.006%	99.995%
175.0	.613	.045	1256.080	.004%	99.998%
180.0	.698	.016	1256.096	.001%	100.000%

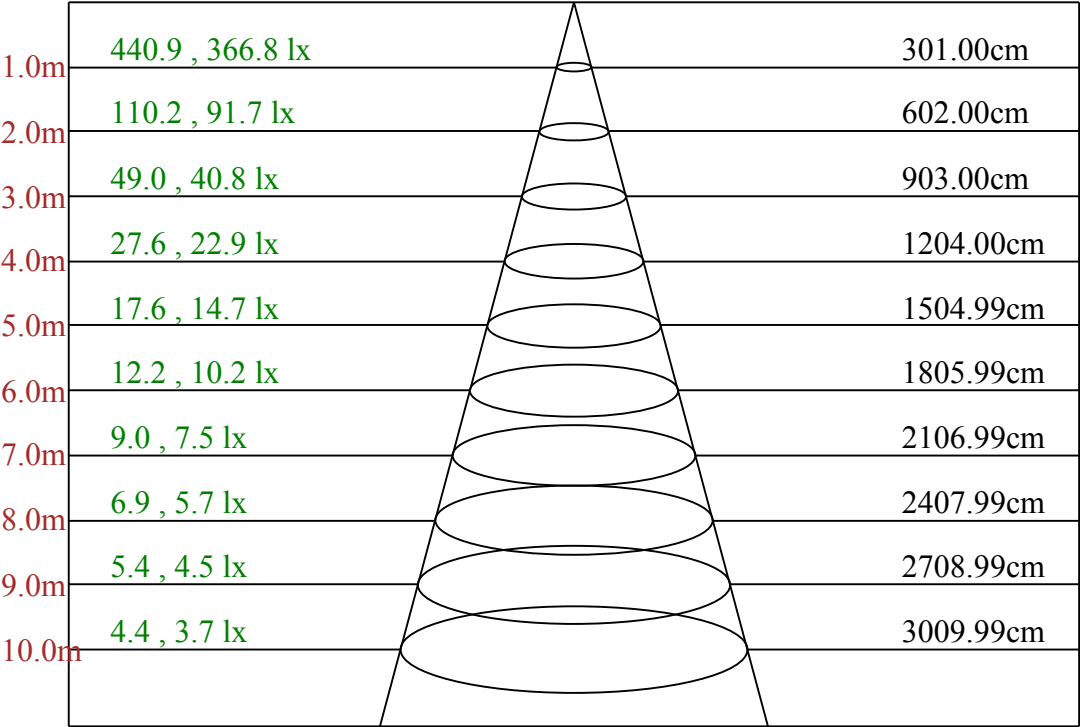
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	343.25	27.33%	27.33%
0-40	566.82	45.13%	45.13%
0-60	1004.13	79.94%	79.94%
0-90	1249.49	99.47%	99.47%
0-120	1254.71	99.89%	99.89%
0-180	1256.10	100.00%	100.00%
60-90	341.91	27.22%	27.22%
90-120	12.11	0.96%	0.96%
90-130	12.38	0.99%	0.99%
90-150	12.99	1.03%	1.03%
90-180	13.48	1.07%	1.07%
0-60.05	1004.88	80.00%	80.00%

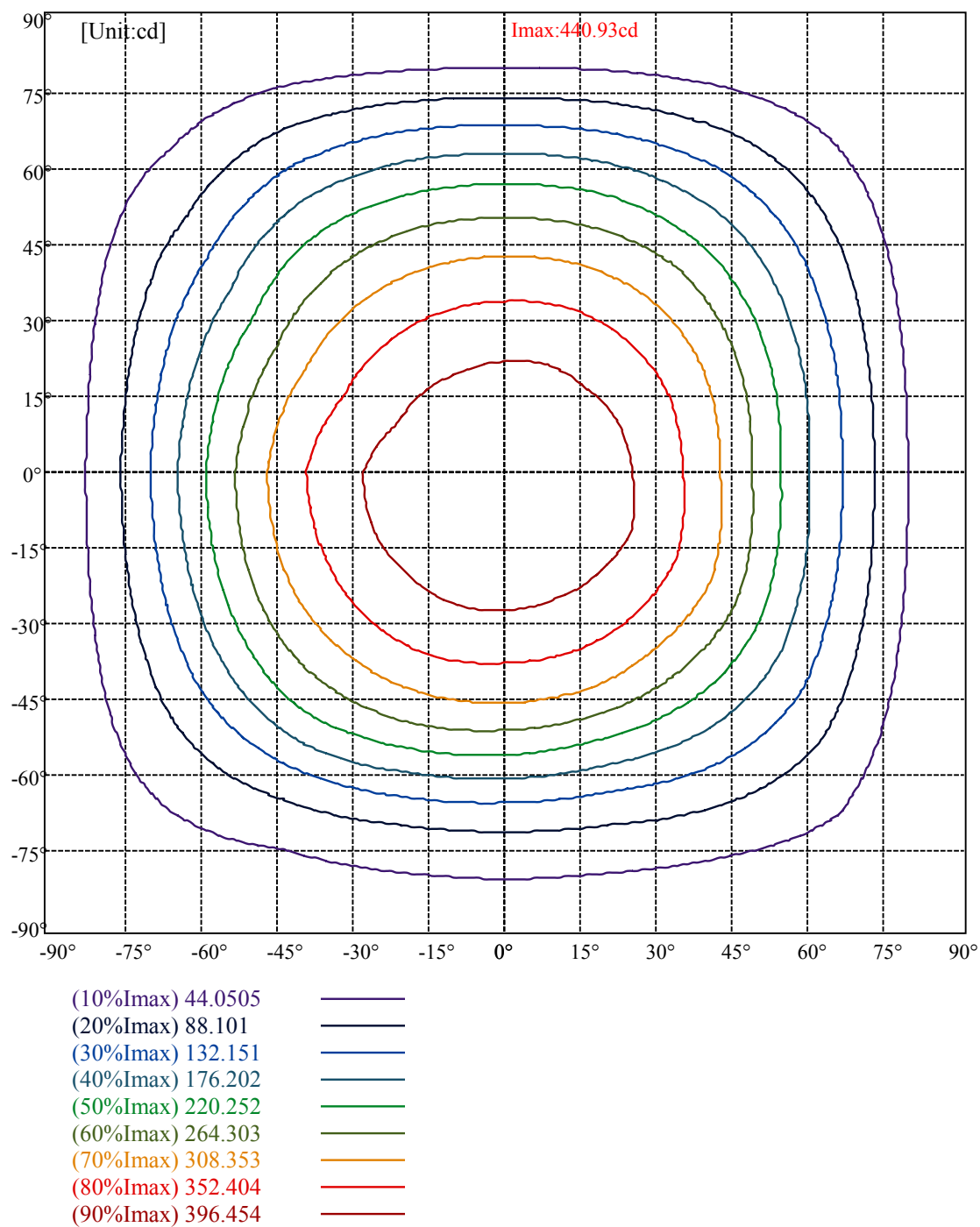
ZONAL LUMEN SUMMARY

0-10	41.22
10-20	119.13
20-30	182.89
30-40	223.57
40-50	232.71
50-60	204.59
60-70	145.97
70-80	76.64
80-90	22.75
90-100	3.58
100-110	1.23
110-120	0.41
120-130	0.27
130-140	0.30
140-150	0.31
150-160	0.27
160-170	0.18
170-180	0.04





Max , Ave Beam angle of C0plane112.55



Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	440.93	436.50	430.35	425.54	414.38	396.30	374.75	351.86	323.19
22.5	438.24	433.62	426.12	421.31	412.07	393.41	376.10	353.01	325.69
45.0	435.93	432.46	426.69	420.54	405.72	387.83	373.60	350.13	324.73
67.5	434.39	432.46	427.65	415.92	403.80	389.56	369.17	349.16	322.81
90.0	432.85	429.19	423.81	413.80	400.91	386.68	367.06	345.51	320.50
112.5	431.31	427.85	422.65	410.53	400.14	384.95	366.67	344.74	319.54
135.0	431.12	429.77	424.19	414.57	402.07	386.87	368.21	345.89	321.65
157.5	433.43	431.31	427.46	417.27	405.15	390.33	372.44	349.55	326.27
180.0	440.93	438.81	434.58	429.19	420.15	404.18	389.18	370.33	346.09
202.5	438.24	436.89	432.85	428.23	419.38	404.95	389.56	369.56	343.20
225.0	435.93	435.16	432.27	427.46	420.34	403.99	386.49	368.02	344.55
247.5	434.39	435.16	434.00	426.69	416.50	403.99	389.18	369.36	343.59
270.0	432.85	434.58	432.46	424.19	415.73	403.61	386.29	364.94	337.81
292.5	431.31	430.35	430.16	425.54	415.15	401.68	385.91	363.59	338.58
315.0	431.12	432.85	430.54	424.77	415.73	402.65	384.18	364.75	334.54
337.5	433.43	433.62	431.12	422.27	414.00	402.45	389.18	362.25	338.58
360.0	440.93	436.50	430.35	425.54	414.38	396.30	374.75	351.86	323.19

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	288.57	251.82	212.38	173.14	139.47	103.69	69.45	36.55	12.12
22.5	296.45	261.06	222.20	183.72	147.55	109.08	72.91	38.67	13.85
45.0	298.18	267.79	228.54	190.45	153.90	113.70	74.64	38.48	15.58
67.5	295.30	264.71	232.01	195.65	154.86	115.04	75.03	38.48	15.58
90.0	292.61	262.79	229.51	193.72	155.83	114.27	72.72	36.94	15.58
112.5	292.99	263.75	230.08	194.88	157.17	116.20	74.84	37.71	15.97
135.0	293.95	263.36	231.05	194.49	155.44	115.23	75.80	40.01	16.16
157.5	296.26	260.86	224.89	185.07	146.59	105.81	69.83	38.09	14.81
180.0	317.42	282.22	247.20	206.81	167.18	125.24	87.92	54.83	25.39
202.5	316.85	282.22	247.78	202.00	157.36	113.50	75.22	45.40	21.55
225.0	312.81	279.91	243.55	201.80	144.48	97.92	59.06	35.97	17.31
247.5	312.04	277.60	231.81	181.60	133.70	90.03	62.52	39.25	18.66
270.0	310.30	268.17	223.73	175.45	128.70	89.84	66.37	42.32	20.20
292.5	307.42	263.75	215.66	171.02	126.39	89.84	64.25	39.63	18.47
315.0	303.19	263.94	220.66	179.87	139.09	99.84	67.72	40.01	20.39
337.5	306.46	269.33	226.24	186.22	148.52	110.62	76.76	46.75	23.28
360.0	288.57	251.82	212.38	173.14	139.47	103.69	69.45	36.55	12.12

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	3.46	1.15	1.92	0.77	0.39	0.19	0.19	0.19	0.39
22.5	5.39	2.69	0.00	0.19	0.00	0.39	0.39	0.39	0.58
45.0	8.66	0.19	4.23	1.35	0.39	0.19	0.19	0.58	0.58
67.5	10.20	3.27	0.58	2.89	0.58	0.39	0.39	0.58	0.39
90.0	10.39	5.39	0.19	2.69	1.15	0.39	0.58	0.39	0.58
112.5	11.16	5.19	0.19	4.43	1.92	0.58	0.39	0.39	0.58
135.0	10.58	1.54	4.62	3.66	0.96	0.39	0.39	0.39	0.58
157.5	8.27	2.69	1.73	0.58	0.96	0.77	0.77	0.39	0.58
180.0	8.08	3.66	2.89	3.46	1.92	1.15	0.19	0.00	0.00
202.5	7.50	3.27	0.96	0.00	0.58	0.39	0.39	0.58	0.39
225.0	6.16	3.08	0.19	1.54	0.77	0.00	0.00	0.19	0.19
247.5	5.39	1.92	0.19	0.19	0.77	0.58	0.19	0.00	0.00
270.0	4.23	0.19	0.00	0.00	0.19	0.19	0.19	0.19	0.19
292.5	4.81	0.58	0.00	0.19	0.00	0.00	0.00	0.00	0.00
315.0	5.96	1.73	0.00	0.58	0.19	0.00	0.00	0.19	0.00
337.5	7.12	0.58	0.58	0.19	0.00	0.00	0.19	0.19	0.39
360.0	3.46	1.15	1.92	0.77	0.39	0.19	0.19	0.19	0.39

Intensity data(cd)

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C/ $\gamma(^{\circ})$	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.58	0.19	0.58	0.58	0.58	0.58	0.19	0.58	0.39
22.5	0.58	0.77	0.58	0.77	0.77	0.77	0.58	0.58	0.77
45.0	0.58	0.58	0.77	0.77	0.77	0.77	0.77	0.77	0.58
67.5	0.39	0.58	0.39	0.58	0.77	0.39	0.58	0.39	0.77
90.0	0.58	0.58	0.58	0.77	0.96	0.77	0.77	0.77	0.77
112.5	0.58	0.77	0.39	0.58	0.58	0.58	0.77	0.77	0.77
135.0	0.39	0.58	0.77	0.77	0.77	0.77	0.77	0.58	0.58
157.5	0.77	0.58	0.77	0.77	0.58	0.58	0.77	0.77	0.77
180.0	0.19	0.19	0.19	0.39	0.58	0.39	0.39	0.58	0.39
202.5	0.39	0.39	0.39	0.39	0.39	0.39	0.58	0.58	0.58
225.0	0.39	0.39	0.19	0.58	0.39	0.58	0.58	0.58	0.58
247.5	0.19	0.19	0.39	0.58	0.39	0.77	0.58	0.77	0.58
270.0	0.19	0.19	0.19	0.39	0.39	0.58	0.58	0.58	0.58
292.5	0.00	0.39	0.39	0.58	0.39	0.39	0.77	0.77	0.77
315.0	0.39	0.39	0.58	0.39	0.58	0.39	0.58	0.58	0.39
337.5	0.19	0.39	0.39	0.39	0.58	0.77	0.77	0.58	0.58
360.0	0.58	0.19	0.58	0.58	0.58	0.58	0.19	0.58	0.39

C/ $\gamma(^{\circ})$	180.0
0.0	0.39
22.5	0.77
45.0	0.96
67.5	0.58
90.0	0.77
112.5	0.77
135.0	0.77
157.5	0.58
180.0	0.39
202.5	0.77
225.0	0.96
247.5	0.58
270.0	0.77
292.5	0.77
315.0	0.77
337.5	0.58
360.0	0.39