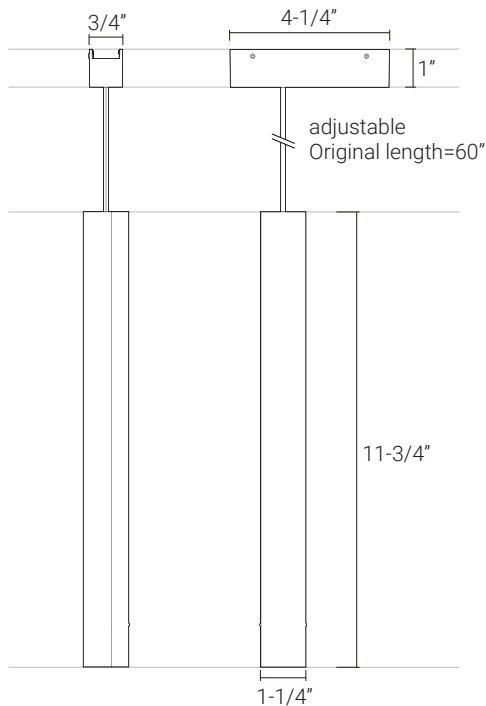
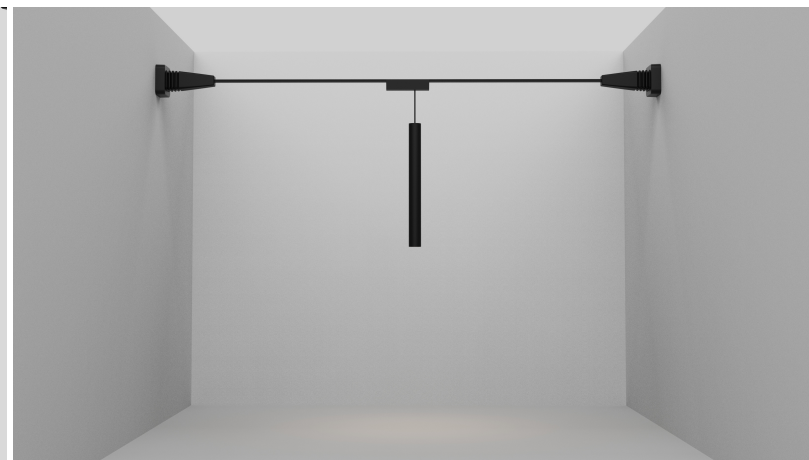
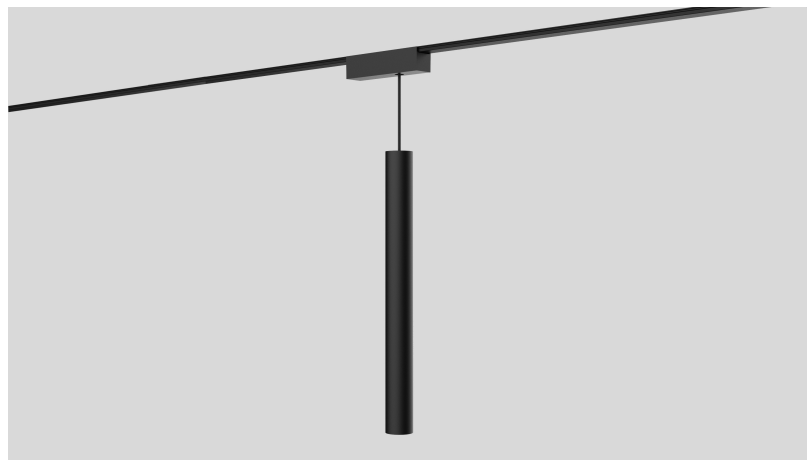




TENSION 'PENDANT' SERIES

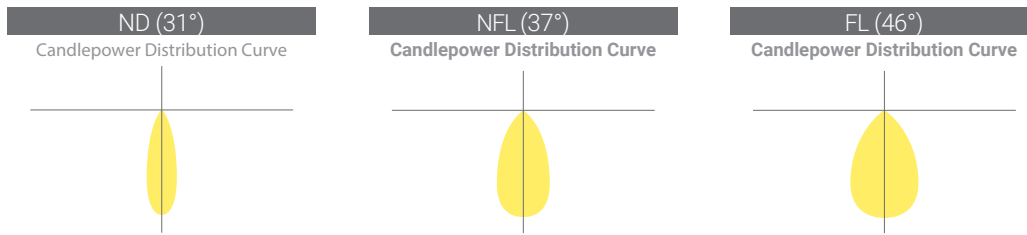
The FT-P1 Cylinder Pendant Luminaires are crafted with black interiors and spot, narrow flood, and flood TIR optics, providing precise beam control and reducing glare. The optics are field-changeable, with various lumen and distribution options.

Tension 'Cylinder Pendant' luminaires are equipped with a standard 60" length wire that can be customized in the field to your desired length. The luminaire serves as an excellent task or accent light.

SERIES	Tension - 'Pendant' series
SIZE	11-3/4"
CCT	2700K, 3000K, 3500K, 4000K, 5000K
CRI	90+
COLOR QUALITY	2 Step MacAdam Ellipse
OPTICS	ND 31°, NFL 37°, FL 46°
FINISH	● BK (Black) ○ WH (White)
DIMMING	DIM10 - (0-10V Dimming)
WEIGHT	0.84 lbs
LIFETIME	L70 at 60,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

SERIES	DELIVERED LUMENS	WATTAGE
FT-P1-2	530	9W

Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%



Reference IES files for additional distribution curve information.

FEATURES OF TENSION FAMILY

The Tension system, the latest innovation in track lighting, is ideal for applications in locations where luminaires cannot be suspended from the ceiling, such as in open office spaces with tall ceilings. This design provides a solution by attaching its turnbuckles to two walls up to 65' apart, installed straight at 0° or up to 45° in any direction – an innovative and practical, yet stylish, piece perfect for any modern building.

The Tension's available track head options are in-line linear, spot, pendant, pendant-linear, and cylinder. The Tension 48V DC track system is available with multiple sleek, slender, and compact track heads that can be mounted onto any part of the track with an easy-installation 2-step method. Simply click the track head connector into place, then secure the luminaire with the locking mechanism provided. This quick and intuitive process allows users to interchange one Tension-compatible luminaire for another for a design that adapts to the user's preferences, updating to match any design or application, current or future.

This wide, flexible design can provide continuous light ideal for a high-end office with practical, yet aesthetic lumination. Concealed uplight tape and track conductors provide indirect lighting for an elegant look.

Utilize Diffused or Downlight linear or pendant, small or large spot, and sphere or cylinder track head to customize your type of lumination: visual focus, highlights, or pendant lighting effects designed for a plethora of applications, such as galleries, museums, hospitality spaces, retail spaces, corporate offices, and residential spaces.

CONSTRUCTION

All track heads are engineered to have an extremely long lifespan and service period by using cool LED's Advanced Thermodynamic Design, which includes an extruded aluminum body, a hidden diecast heat sink, and a thermal management system.

LED MODULE PERFORMANCE

The Tension System's luminaires are equipped with 2-step McAdam Eclipse LEDs, which provide consistent color across all fixtures, and 90+CRI. The LEDs are available in a variety of Kelvin temperature options.

FINISH

The Tension track system is available in a powder-coated black post-paint finish.

The Tension luminaires are all available in a powder-coated black or white post-paint finish.

DRIVERS

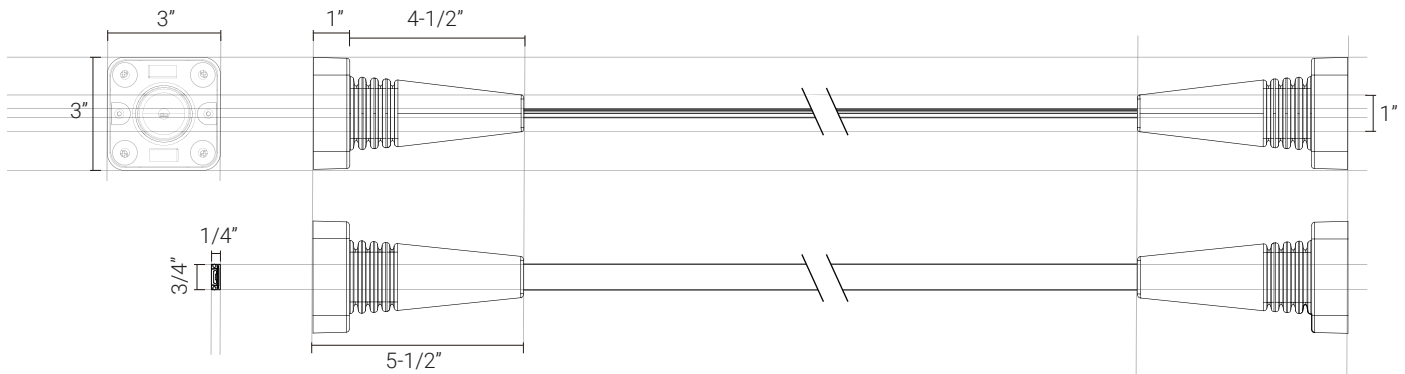
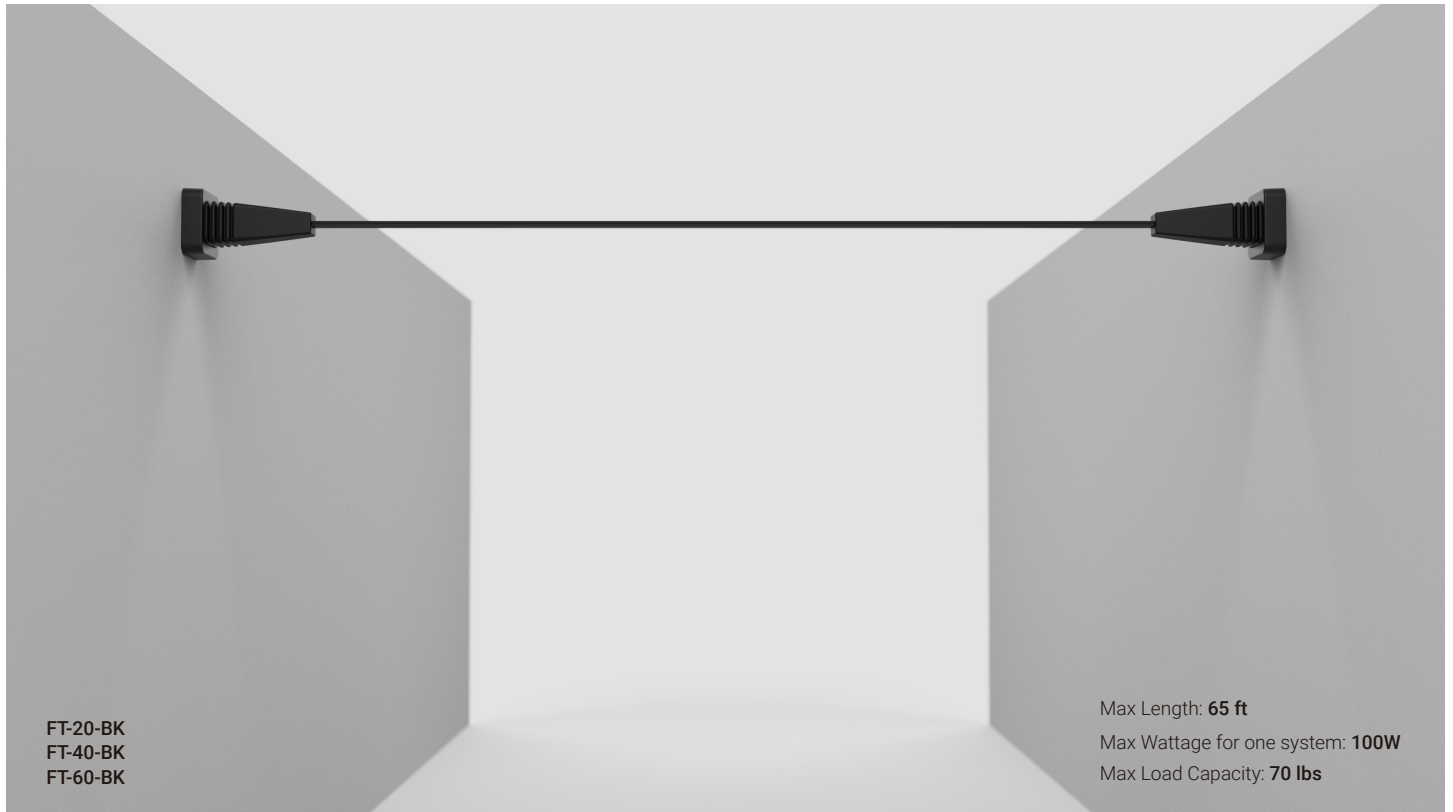
The Tension System is powered by constant voltage drivers with a rating of 50/60Hz at a 120/277V input and a 48V output. They produce less than 20% THD, have a 90% power factor, and are thermally protected for additional safety. Driver wattage is only available in 100W and can power up to 6 ft. of track. Tension drivers can be remotely mounted, and are available in 0-10V 1 % Dimming. Please see Tension track system spec sheets for a complete list of drivers and capabilities.

Remote Mount Driver Options:

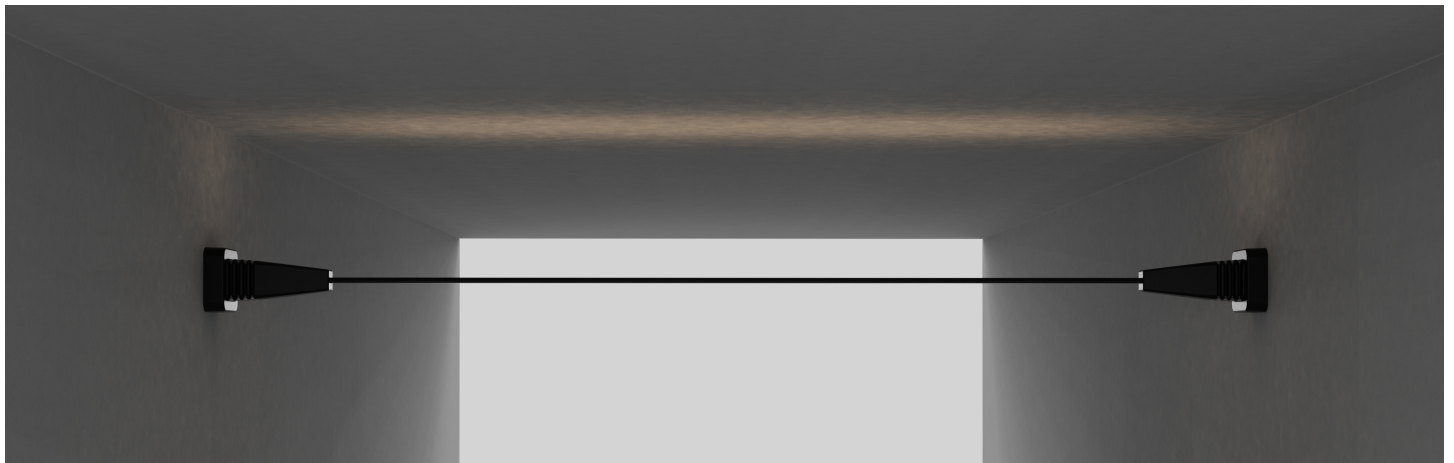
0-10V dimming on either MVOLT 120, 277 Dimmable down to 1% of initial lumens. FT-DR- ELG-100-48: 60W @ 120V or 85W. @ 277V.

EXAMPLE:					
SERIES	OPTICS	CCT	CRI	FINISH	OPTION
FT-P1-2	☐ ND=31° ☐ NFL=37° ☐ FL=46°	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K	☐ 90	☐ BK (Black) ☐ WH (White)	☐ 48V

ACCESSORY - TRACK



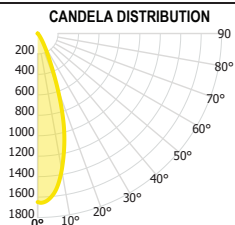
ACCESSORY - UPLIGHT



FT-P1-2-ND-30K-90

TEST NO.: **220076**

INPUT WATTS: **8.7** LUMENS: **522** EFFICACY: **60** BEAM ANGLE: **31** SPACING CRITERIA: **0.56**



CANDELA TABLE

	0°	90°
0°	1649	1649
10°	1356	1225
20°	567	406
30°	114	80
40°	23	16
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	56492156	56492156
45.00°	502474	276191
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	140
10° - 20°	241
20° - 30°	106
30° - 40°	29
40° - 50°	6
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	380	73%
0° - 30°	487	93%
0° - 40°	516	99%
0° - 60°	522	100%
0° - 80°	522	100%
0° - 90°	522	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	45.8 fc	3.4 ft	3.4 ft
8.0 ft	25.8 fc	4.5 ft	4.6 ft
10.0 ft	16.5 fc	5.7 ft	5.7 ft
12.0 ft	11.4 fc	6.8 ft	6.9 ft
14.0 ft	8.4 fc	7.9 ft	8.0 ft
16.0 ft	6.4 fc	9.0 ft	9.2 ft
18.0 ft	5.1 fc	10.2 ft	10.3 ft
20.0 ft	4.1 fc	11.3 ft	11.5 ft

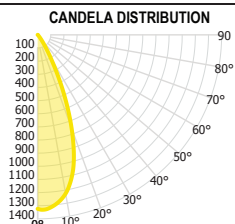
INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																0%
pc	80%				70%				50%				30%				0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	96
2	110	107	103	101	108	105	102	100	102	100	98	99	97	95	96	95	94
3	107	102	98	95	105	100	97	94	98	95	93	96	93	91	93	91	90
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	91	88	86
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83
6	96	89	85	82	95	89	85	81	87	84	81	86	83	80	85	82	80
7	93	86	82	78	92	86	81	78	84	81	78	83	80	77	82	79	76
8	90	83	79	75	89	83	78	75	82	78	75	81	77	75	80	77	74
9	87	80	76	73	86	80	76	73	79	75	72	78	75	72	77	74	71
10	85	77	73	70	84	77	73	70	76	73	70	76	72	70	75	72	69

FT-P1-2-NFL-30K-90

TEST NO.: **220076**

INPUT WATTS: **8.9** LUMENS: **542** EFFICACY: **61** BEAM ANGLE: **37** SPACING CRITERIA: **0.70**



CANDELA TABLE

	0°	90°
0°	1324	1324
10°	1226	1142
20°	755	564
30°	188	107
40°	25	13
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	45353389	45353389
45.00°	481154	260201
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	118
10° - 20°	245
20° - 30°	143
30° - 40°	32
40° - 50°	5
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	362	67%
0° - 30°	505	93%
0° - 40°	537	99%
0° - 60°	542	100%
0° - 80°	542	100%
0° - 90°	542	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	36.8 fc	4.2 ft	4.0 ft
8.0 ft	20.7 fc	5.6 ft	5.4 ft
10.0 ft	13.2 fc	7.0 ft	6.7 ft
12.0 ft	9.2 fc	8.4 ft	8.1 ft
14.0 ft	6.8 fc	9.8 ft	9.4 ft
16.0 ft	5.2 fc	11.2 ft	10.8 ft
18.0 ft	4.1 fc	12.6 ft	12.1 ft
20.0 ft	3.3 fc	14.0 ft	13.5 ft

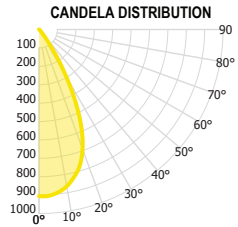
INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																0%
pc	80%				70%				50%				30%				0%
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97
2	110	106	103	100	108	104	102	99	101	99	97	98	97	95	96	94	93
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85
5	98	92	87	84	97	91	87	83	89	86	83	88	85	82	86	84	81
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	83	80	78
7	92	84	80	76	90	84	79	76	83	79	76	81	78	75	80	77	74
8	88	81	76	73	87	80	76	73	79	75	73	79	75	72	78	74	72
9	85	78	73	70	85	77	73	70	77	73	70	76	72	70	75	72	69
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	66

FT-P1-2-FL-30K-90

TEST NO.: **220076**

INPUT WATTS: **8.8** LUMENS: **536** EFFICACY: **61** BEAM ANGLE: **48** SPACING CRITERIA: **0.86**



CANDELA TABLE

	0°	90°
0°	905	905
10°	866	831
20°	691	590
30°	295	167
40°	34	17
50°	0	0
60°	0	0
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	30995308	30995308
45.00°	674488	322708
55.00°	0	0
65.00°	0	0
75.00°	0	0
85.00°	0	0

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	83
10° - 20°	207
20° - 30°	186
30° - 40°	52
40° - 50°	8
50° - 60°	0
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	290	54%
0° - 30°	475	89%
0° - 40°	528	99%
0° - 60°	536	100%
0° - 80°	536	100%
0° - 90°	536	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	25.1 fc	5.4 ft	5.4 ft
8.0 ft	14.1 fc	7.2 ft	7.2 ft
10.0 ft	9.0 fc	9.0 ft	8.9 ft
12.0 ft	6.3 fc	10.8 ft	10.7 ft
14.0 ft	4.6 fc	12.6 ft	12.5 ft
16.0 ft	3.5 fc	14.4 ft	14.3 ft
18.0 ft	2.8 fc	16.2 ft	16.1 ft
20.0 ft	2.3 fc	18.0 ft	17.9 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf pc pw	20%																0%	
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	99	107	103	100	97	100	98	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	87	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77
6	92	85	79	76	91	84	79	76	82	78	75	81	77	75	80	77	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63
10	79	70	65	62	78	70	65	62	69	65	61	68	64	61	68	64	61	60