



NOTCH 2 - NT2-B Specification Data



D2 - Drywall Trimless shown with (E) Dado Endcap option

Luminaire	NOTCH - VSI 100 Dn Symmetric (NT2-B)	Type
Project		
Product		
Notes		

Performance Summary	NT2-B VSI 100 Dn Symmetric	
	C - 7.25w/ft	D - 9.5w/ft
Light (lm/ft)	440	560
Energy (W/ft)	7.25	9.5
Efficacy (lm/W)	61	59
Color Rendering (CRI)	80+	80+
Color Accuracy (SDCM)	< 2	< 2
L70 Estimate (h)	200,000	200,000
Lumen Maintenance per TM21 (@ 60,000 h)	L90	L90

Summary values are nominal and based on 4000K CCT

SPECIFICATION

NT2		B		OPTIONS										
1	2	3	4	5	6	7	8	9						
1. FAMILY		2. VERSION		3. CEILING			4. DISTRIBUTION		5. LIGHT + ENERGY ¹		6. CCT			
NT2 VSI 100 Dn		L Linear Row P Pattern	D1 Drywall - Trim Flange D2 Drywall - Trimless D3 Drywall - Drop Radius D4 Drywall - Drop Square G1 Grid - 9/16" or 15/16" Flat-T G1 9/16" Tegular or Bolt-Slot G1 4" Armstrong TechZone® or 4" USG Logix®			B Symmetric		C 440 lm + 7.25w/ft D 560 lm + 9.5w/ft <small>¹ Add 1w/ft for 347V with E1-4/L1</small>		30 3000 K 35 3500 K 40 4000 K				
		PATTERN P0 Square P1 Rectangle P2 2-rows 1-corner P3 3-rows 2-corner P4 4-rows 3-corner P5 5-rows 4-corner <small>Other pattern options available. See page 4 and/or consult factory.</small>												
7. DRIVER		8. VOLTAGE		9. LENGTH ³			OPTIONS							
E1 eldoLED ECO 0-10V Dim 1% E2 eldoLED SOLO 0-10V Dim 0.1% E3 eldoLED ECO DALI 1% E4 eldoLED SOLO DALI Dim 0.1% F1 Factory Non- Dim F2 Factory 0-10V Dim 3% L1 Lutron Hi-Lume 1%-H EcoSystem		M 120 - 277 V 3 347 V ² <small>² 347V Driver for F1/F2 347V Transformer & Driver for E1-4/L1</small>		XX Drywall - Specify 1ft Increments XX Grid - Specify 2ft Increments LC L Corner (2 ft x 2ft) XN X intersection ⁴ TN T Intersection ⁴ <small>³ Minimum length is 2 feet ⁴ Available in D2 or W2 trim options</small>			A Alternate Wiring (AV) B Battery Pack ⁵ C Chicago Plenum E Dado Endcap ⁶ F 6' Flex Whip (Standalone Only) K Black Trim and Endcap M EM or NL (2nd neutral) P Capsule Endcap ⁷ T Throughwire Circuit U Throughwire (w / neutral) <small>⁵ Available for 120-277V in linear 4 or 8 foot. ⁶ Available with D2 trim option. Default option is to install in one end only. Call factory for options. ⁷ Available in D2 and D3 trim options.</small>							

TRIM OPTIONS

TRIM



D1 - Drywall Trim Flange

TRIMLESS



D2 - Drywall Trimless

DROP TRIM



D3 - Drywall Drop Radius

GRID



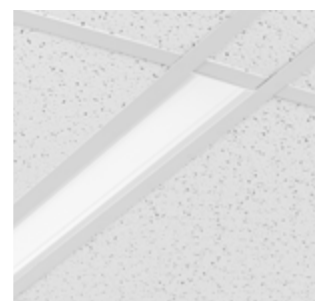
G1 - 9/16" Grid Flat T



OPTIONAL Dado Endcap



D4 - Drywall Drop Square



G1 - 15/16" Grid Flat T



OPTIONAL Capsule Endcap



OPTIONAL Capsule Endcap



G1 - 9/16" Tegular | Slot Grid

NOTE: Use **G1** for 4" Armstrong TechZone® or 4" USG Logix®

OPTICAL

- Anidolic optical system with linear light extraction elements
- Precision extruded high transmittance clear acrylic lenses
- Long life LED system designed for TM21 lumen maintenance \geq L90 @ 60,000 h
- Available in CCTs 3000 K, 3500 K or 4000 K with CRI \geq 80 and R9 \geq 0, all with color accurate binning \leq 2 SDCM

CONSTRUCTION

- 20 ga. satin coat steel housing
- Extruded aluminum flange options available for drywall trim, trimless and t-bar grid ceilings

ELECTRICAL

- Integral high efficiency drivers 120 - 277 V or 347 V; 50 - 60 Hz
- Optional Battery Pack
- Optional flex whip: 6' prewired for standalone
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

ENVIRONMENTAL

- Designed for use in damp or dry indoor environments with room side operating temperatures of 0 - 30° C (32 - 86° F)

WARRANTY

- 5 year limited warranty on all components and workmanship

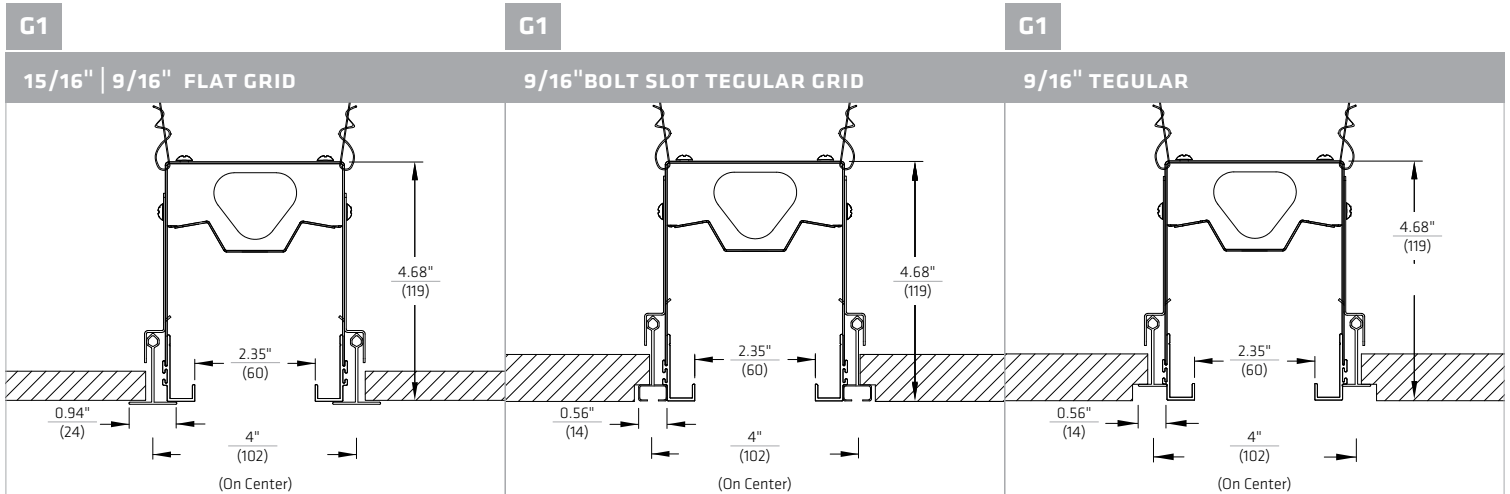
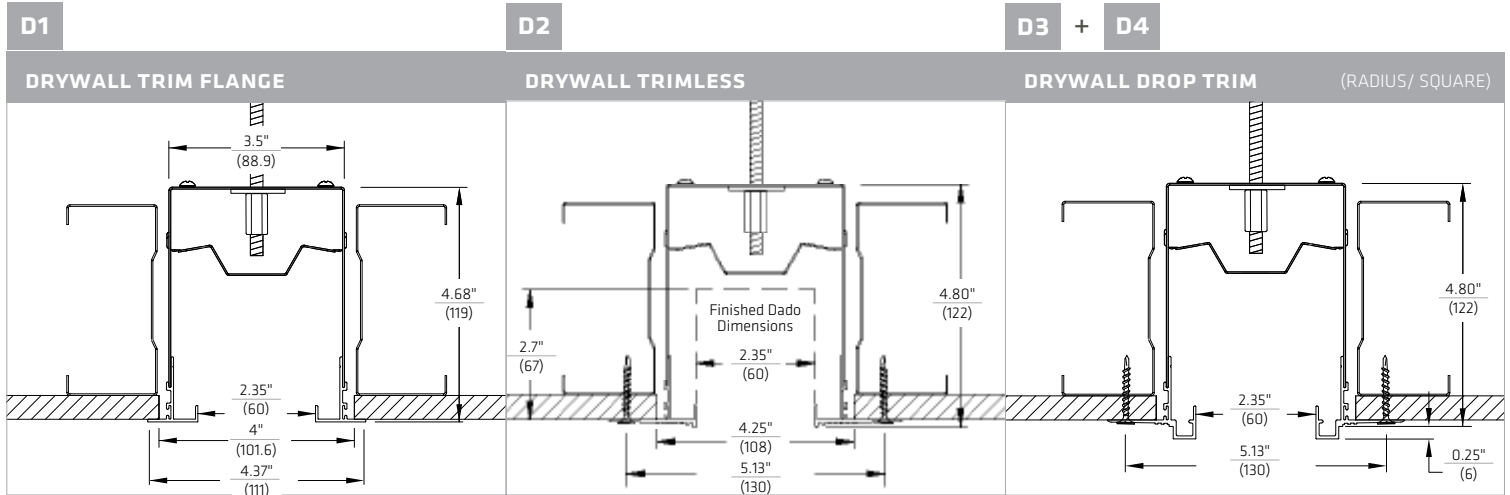
INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED@ 10,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- Lighting Facts®
- IC Rated

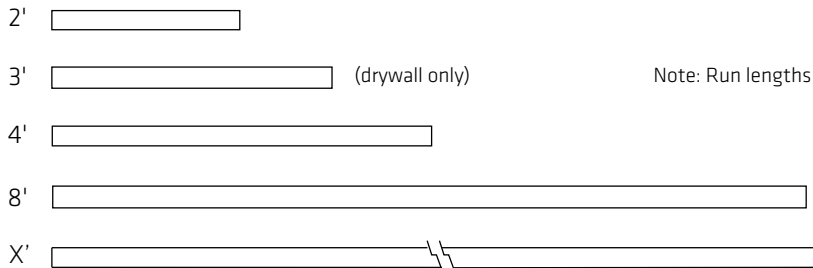
DIMENSIONS inches
(mm)



Grid (G1) is compatible with 4" Armstrong TechZone® and 4" USG Logix® Ceiling Systems

CONTINUOUS ROWS + STANDALONE FIXTURES

Continuous rows are available in nominal 1' increments in drywall ceilings and in 2' increments on-grid for T-bar ceilings. Standalone fixtures are available in 2', 3', 4', or 8' sizes.

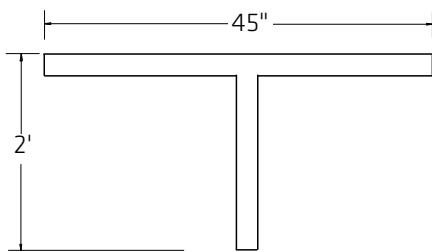


Note: Run lengths are nominal and vary with ceiling condition and trim selections.

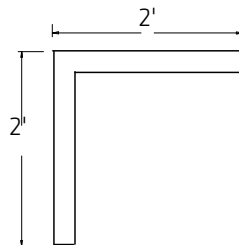
INTERSECTING FIXTURES

Intersecting sections can be used as standalone fixtures or combined with rows to create illuminated ceiling designs and patterns of light in limitless combinations.

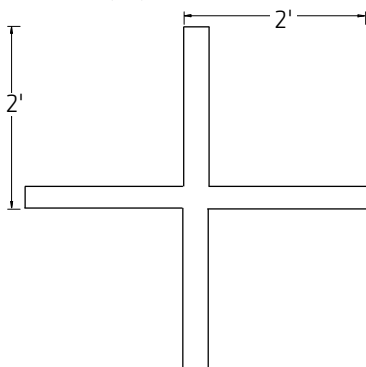
T-INTERSECTION (TN) - CEILING ONLY



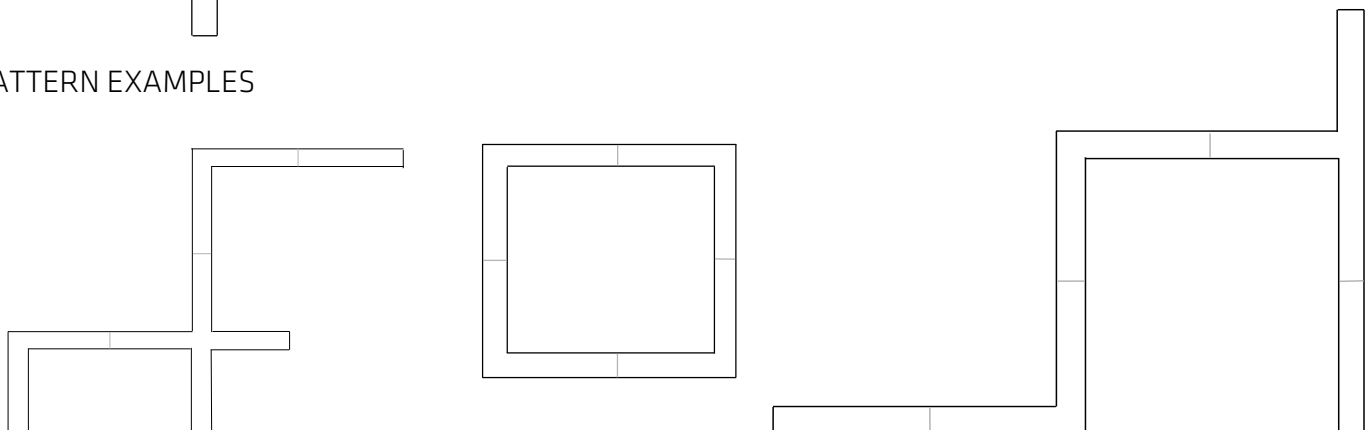
CORNER (LC) - WALL OR CEILING



X-INTERSECTION (XN) - CEILING ONLY



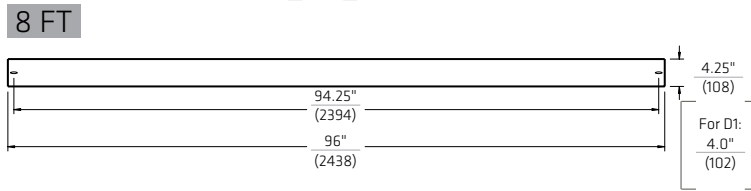
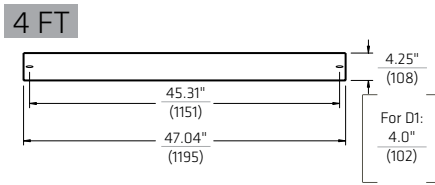
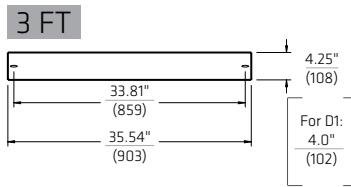
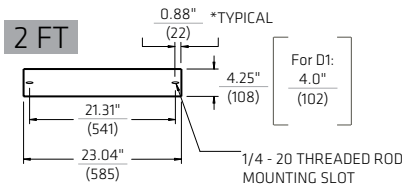
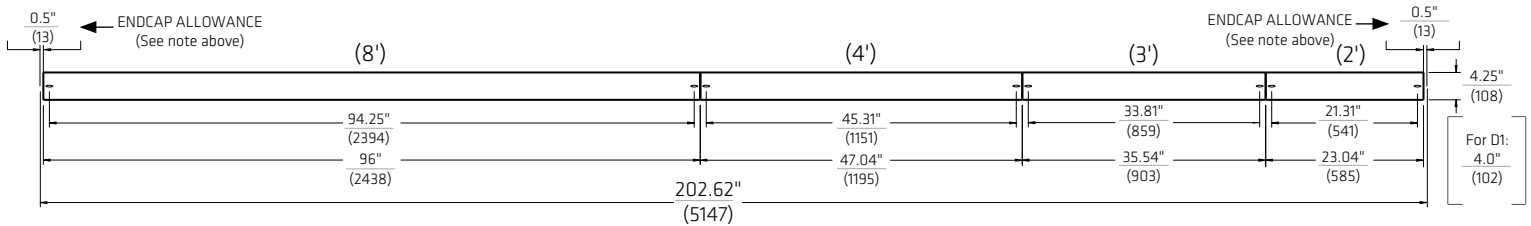
PATTERN EXAMPLES



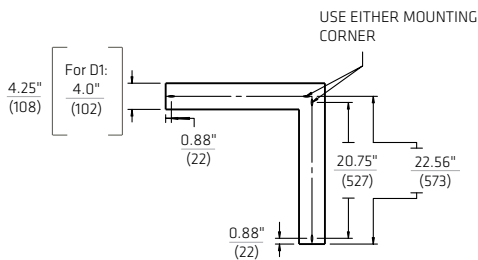
DRYWALL CUT OUT DIMENSIONS inches (mm)

For cutout dimensions for rows and open patterns, add 1/2" to each end of the overall run length, except for Capsule or Dado endcaps. For rows or open patterns with Capsule endcaps add 1-3/4" inches to each end of the overall run length. Do not add to the cutout dimensions when using Dado endcaps or closed patterns.

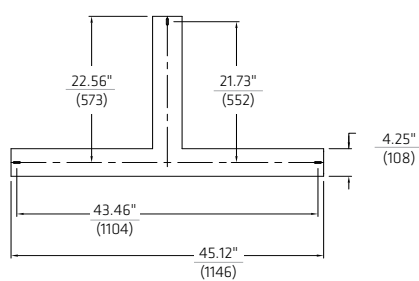
Example of a drywall cutout for a 17' run



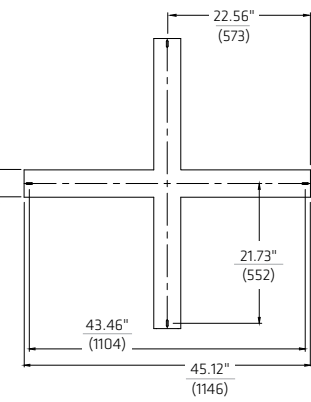
CORNER



T - INTERSECTION




X - INTERSECTION



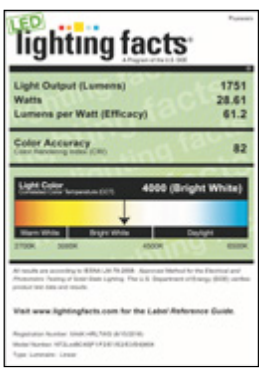
INSTALLATION NOTES:

- Cutout dimensions apply to all drywall trim options.
- Do not add additional allowance for patterns, squares and rectangles.
- A minimum depth of 5" above ceiling plane is required.
- Threaded rod or lag bolt mounting is required for ceiling installations:
 - Ensure 1/4 - 20 threaded rod length is cut between 3.25" - 4.25" above finished ceiling plane
 - 2 threaded rods required for each linear housing (3 for corner housing).

Light + Energy	C - 440 lm + 7.25w/ft	Description	Performance Summary					Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	NT2-BC40	4ft luminaire 100% Dn, C Lumens CCT 4000 K	CCT Color Temperature	4000 K	1751	28.61	61.2	82.6	9.2	< 2			
Report	1248353			3500 K	1672	28.2	59	83.2	10.2	< 2			
				3000K	1671	28.1	59	82.3	6.7	< 2			



100% Dn



CANDLEPOWER DISTRIBUTION

Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	163	163	163	163	163	
5°	136	183	237	291	313	28
15°	126	325	642	871	948	173
25°	108	509	1007	1119	1067	362
35°	88	634	885	557	476	369
45°	71	631	420	300	291	298
55°	59	479	241	214	212	240
65°	51	292	154	143	140	169
75°	44	112	82	76	75	89
85°	29	26	17	16	16	24
90°	0	1	1	1	1	
95°						
105°						
115°						
125°						
135°						
145°						
155°						
165°						
175°						
180°						

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	563	N.A.	32	
0-60°	1470	N.A.	84	
0-90°	1751	N.A.	100	
90-180°	0	N.A.	0	
Total Luminaire	0-180°	1751	N.A.	100

LUMINANCE DATA (CD/M²)


Vertical Angle	0°	45°	90°
45°	1388	8228	5702
55°	1424	5826	5113
65°	1670	5066	4600
75°	2330	4393	4007
85°	4661	2657	2530

CO-EFFICIENTS OF UTILIZATION

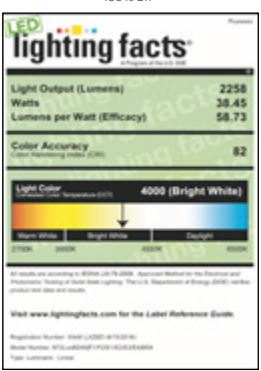
Floor Ceiling Wall	80				70				20				30				10				0			
	70	50	30	10	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10		
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100										
1	110	105	101	98	107	103	96	99	93	95	90	91	88	85										
2	100	93	86	81	98	91	80	87	78	84	76	81	75	73										
3	92	82	74	68	90	80	68	78	66	75	65	72	64	62										
4	85	73	65	58	82	72	58	69	57	67	56	65	56	54										
5	78	66	57	51	76	64	50	62	50	60	49	59	49	47										
6	72	59	51	44	70	58	44	56	44	55	43	53	43	41										
7	67	54	45	39	65	53	39	51	39	50	39	49	38	36										
8	62	49	41	35	61	48	35	47	35	46	34	45	34	32										
9	58	45	37	31	57	44	31	43	31	42	31	41	31	29										
10	54	41	34	28	53	41	28	40	28	39	28	38	28	26										

Integrating Sphere and Photometric results at 4000K B lumens, by an independent accredited testing laboratory per IES LM-79-2008 and ANSI C78.377-2011. Results for 3000K, 3500K scaled based on integrating sphere results for symmetric data. Results for 4500K A lumens, scaled from B lumen data and symmetric A lumen data. Candlepower Distribution scaled per total lumens of Integrating Sphere results.

Light + Energy	D - 560 lm + 9.50w/ft	Description	Performance Summary					Light (lm)	Energy (W)	Efficacy (lm/W)	Color Accuracy		
Version	NT2-BD40	4ft luminaire 100% Dn, D Lumens CCT 4000 K	CCT Color Temperature	4000 K	2258	38.45	58.7	82.5	9	< 2			
Report	1248352			3500 K	2156	37.9	57	83.2	10.2	< 2			
				3000K	2155	37.7	57	82.3	6.7	< 2			



100% Dn



CANDLEPOWER DISTRIBUTION

Vertical Angle	0°	22.5°	45°	67.5°	90°	Zonal Lumens
0°	210	210	210	210	210	
5°	176	236	306	376	403	36
15°	163	418	827	1123	1222	222
25°	139	656	1298	1443	1376	467
35°	114	817	1142	718	614	476
45°	91	813	541	387	375	385
55°	76	618	311	276	273	309
65°	66	376	199	184	181	218
75°	56	144	106	99	97	114
85°	38	33	22	21	21	30
90°	0	2	2	2	2	
95°						
105°						
115°						
125°						
135°						
145°						
155°						
165°						
175°						
180°						

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture	
0-30°	725	N.A.	32	
0-60°	1895	N.A.	84	
0-90°	2258	N.A.	100	
90-180°	0	N.A.	0	
Total Luminaire	0-180°	2258	N.A.	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	1790	10611	7353
55°	1837	7511	6595
65°	2152	6532	5932
75°	3000	5668	5170
85°	6014	3436	3277

CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20				30				10				0			
	70	50	30	10	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10		
0	119	119	119	119	116	116	116	111	111	106	106	102	102	100										
1	110	105	101	98	107	103	96	99	93	95	90	91	88	85										
2	100	93	86	81	98	91	80	87	78	84	76	81	75	73										
3	92	82	74	68	90	80	68	78	66	75	65	72	64	62										
4	85	73	65	58	82	72	58	69	57	67	56	65	56	54										
5	78	66	57	51	76	64	50	62	50	60	49	59	49	47										
6	72	59	51	44	70	58	44	56	44	55	43	53	43	41										
7	67	54	45	39	65	53	39	51	39	50	39	49	38	36										
8	62	49	41	35	61	48	35	47	35	46	34	45	34	32										
9	58	45	37	31	57	44	31	43	31	42	31	41	31	29										
10	54	41	34	28	53	41	28	40	28	39	28	38	28	26										