

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

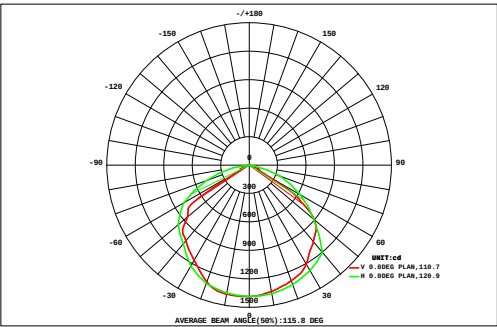
Maximum Intensity (Luminaire orientation as tested.)		371.1 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	157.8V x 121.4H
	At 50% of Imax	120.9V x 110.7H
	At 90% of Imax	63.2V x 51.0H
Beam Flux	Total	996.9 lumens per klm.
	To 10% of Imax	980.9 lumens per klm.
	To 50% of Imax	859.2 lumens per klm.
	To 90% of Imax	265.4 lumens per klm.
Upward LOR		0.0 %
Downward LOR		99.7 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-03-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:1.310A P:31.43W PF:1.000 Freq:0Hz Lamp Flux:3735.24x1 lm		
NAME: 8.02.038.0049 LLS-WZB-W40-L12-S	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025030058
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:118.84lm/W	
MODEL	LLS-WZB-W40-L12-S	Imax(cd)	1386
NOMINAL POWER(W)	31	AVAILABILITY(%)	98.5
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	3680
NOMINAL FLUX(lm)	3735.24	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	3735
TEST VOLTAGE(V)	24	θ @50%(H,V)	111, 121DEG

AREA FLUX DIAGRAM																	UNIT:lm	Φ t	Φ a	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
80	0.00	0.00	0.00	0.01	0.34	0.94	4.47	7.82	9.74	9.50	7.12	4.37	0.89	0.64	0.16	0.01	0.00	0.00	46.0	41.6
70	0.00	0.00	0.00	0.30	1.42	5.92	15.8	19.0	19.0	19.4	17.5	15.2	5.65	1.24	0.71	0.09	0.00	0.00	121	117
60	0.00	0.00	0.02	1.07	4.93	17.2	22.0	25.2	26.8	27.4	23.9	20.9	16.8	4.60	1.19	0.31	0.01	0.00	192	188
50	0.00	0.01	0.23	2.38	12.7	21.0	25.2	29.1	31.1	31.5	29.0	24.0	20.1	13.1	2.00	0.61	0.04	0.00	242	239
40	0.00	0.01	0.69	5.24	17.7	23.4	28.8	32.4	34.5	34.7	32.7	27.6	23.0	17.5	4.90	0.89	0.07	0.00	284	281
30	0.00	0.01	0.92	8.43	20.0	25.9	32.3	36.3	38.7	39.0	36.9	31.0	25.1	19.0	8.80	1.01	0.12	0.00	323	321
20	0.00	0.01	1.09	10.6	21.0	27.5	34.2	38.2	40.8	41.0	38.8	33.0	26.6	20.2	10.9	1.10	0.16	0.00	345	342
10	0.00	0.00	1.15	11.4	21.3	28.0	34.7	38.9	41.5	41.8	39.7	33.9	27.4	21.0	11.9	1.13	0.17	0.00	354	351
0	0.00	0.00	1.16	11.3	21.2	27.9	34.7	38.9	41.5	41.9	39.8	33.9	27.4	20.9	11.6	1.11	0.17	0.00	353	351
-10	0.00	0.00	1.06	10.2	20.8	27.3	34.0	38.2	40.9	41.2	39.1	33.0	26.6	20.1	9.84	1.03	0.13	0.00	343	341
-20	0.00	0.00	0.89	7.90	19.6	26.0	32.7	36.9	39.4	39.8	37.5	31.3	25.4	18.8	6.78	0.95	0.07	0.00	324	321
-30	0.00	0.00	0.59	4.49	17.0	24.2	30.4	34.8	37.3	37.7	35.1	28.9	23.7	16.4	3.25	0.77	0.03	0.00	295	292
-40	0.00	0.00	0.21	1.70	11.6	21.5	26.3	30.3	32.1	32.5	29.7	24.8	20.6	10.5	1.09	0.38	0.01	0.00	243	240
-50	0.00	0.00	0.00	0.77	3.91	14.3	19.8	21.6	22.3	22.5	19.8	18.0	13.0	3.01	0.87	0.18	0.00	0.00	160	156
-60	0.00	0.00	0.00	0.22	0.64	3.60	10.4	13.9	14.0	14.1	12.3	9.12	3.05	0.77	0.38	0.04	0.00	0.00	82.5	78.4
-70	0.00	0.00	0.00	0.00	0.22	0.21	1.04	6.13	5.86	5.39	5.29	0.86	0.25	0.33	0.05	0.00	0.00	0.00	25.7	20.0
-80	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.14	0.09	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.32	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Φ t	0.00	0.03	8.00	75.9	194	295	387	448	476	480	444	370	286	188	74.4	9.59	0.99	0.00	3735	---
Φ a	0.00	0.00	0.14	69.0	190	292	385	446	475	479	443	369	283	183	65.9	0.00	0.00	0.00	---	3680

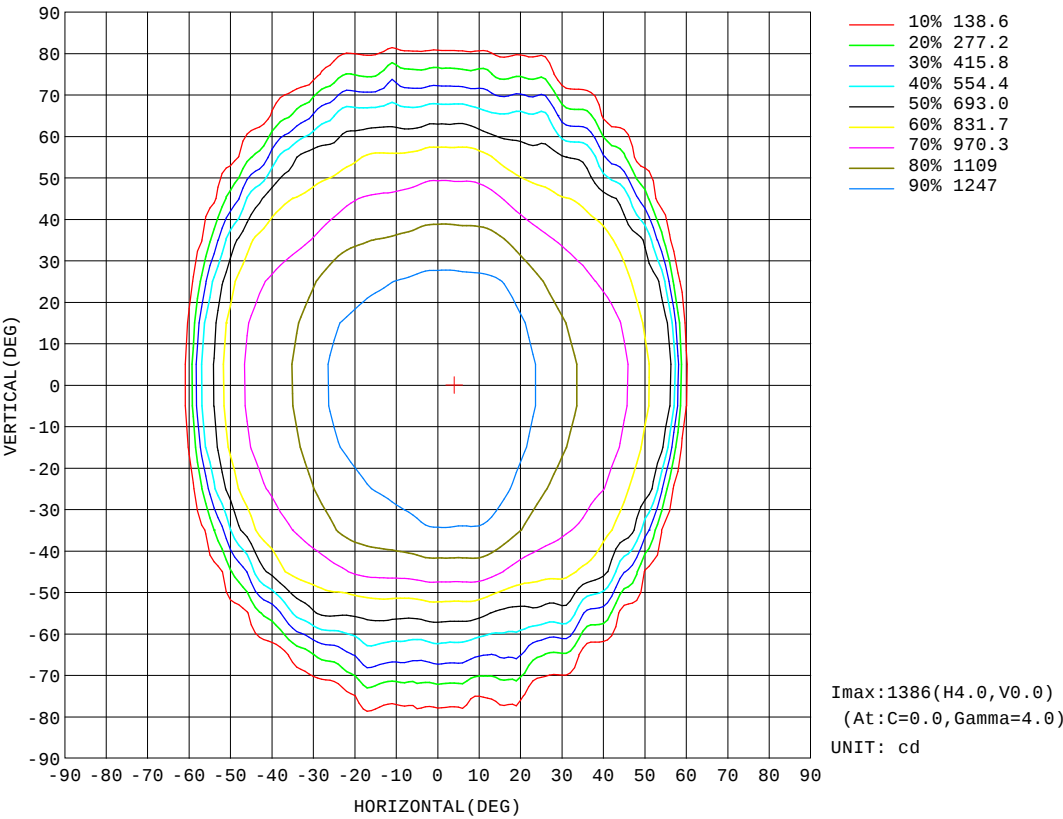
one-half-peak spread: U:57.6,D:63.7 , L:58.4, Beam Type: Type 6 x 7 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-03-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

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SPEC.:	DIM.:	SERIAL No.:2025030058
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

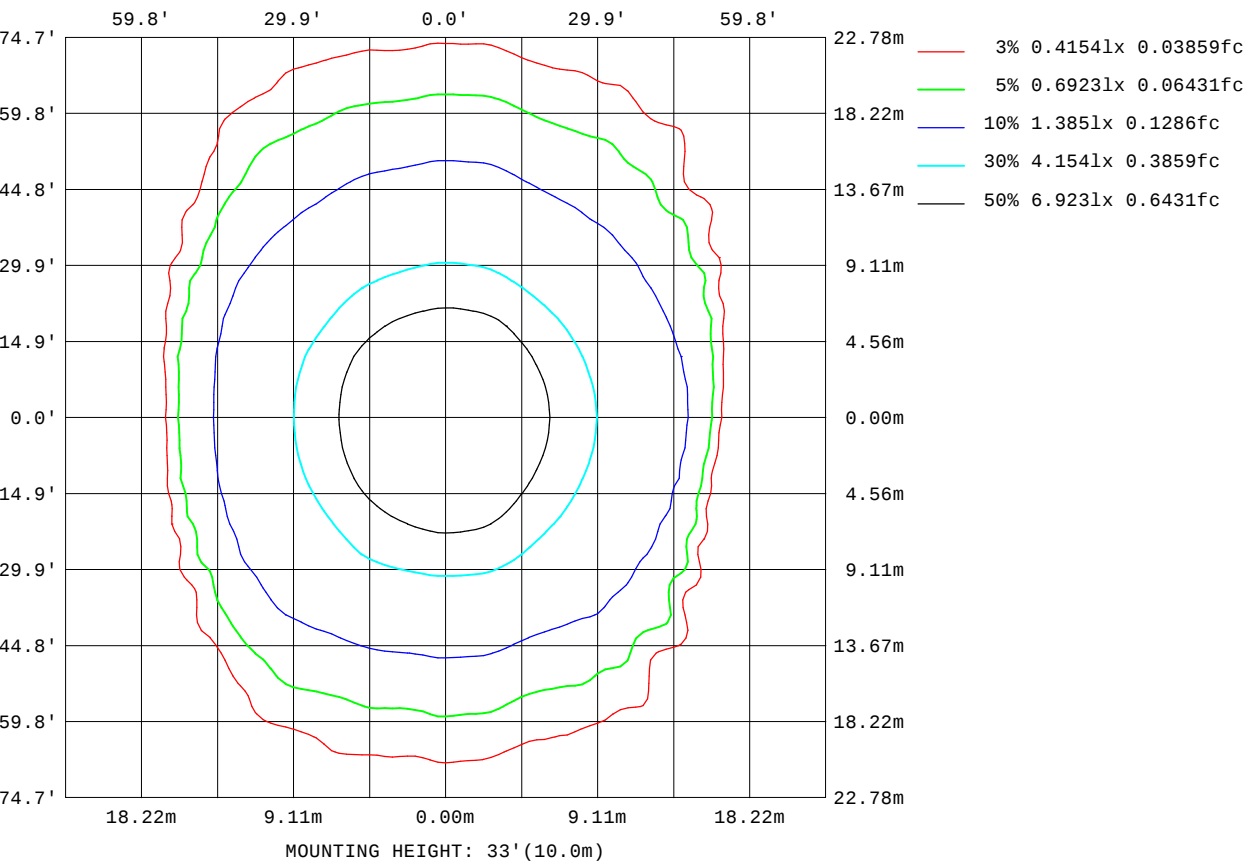


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Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

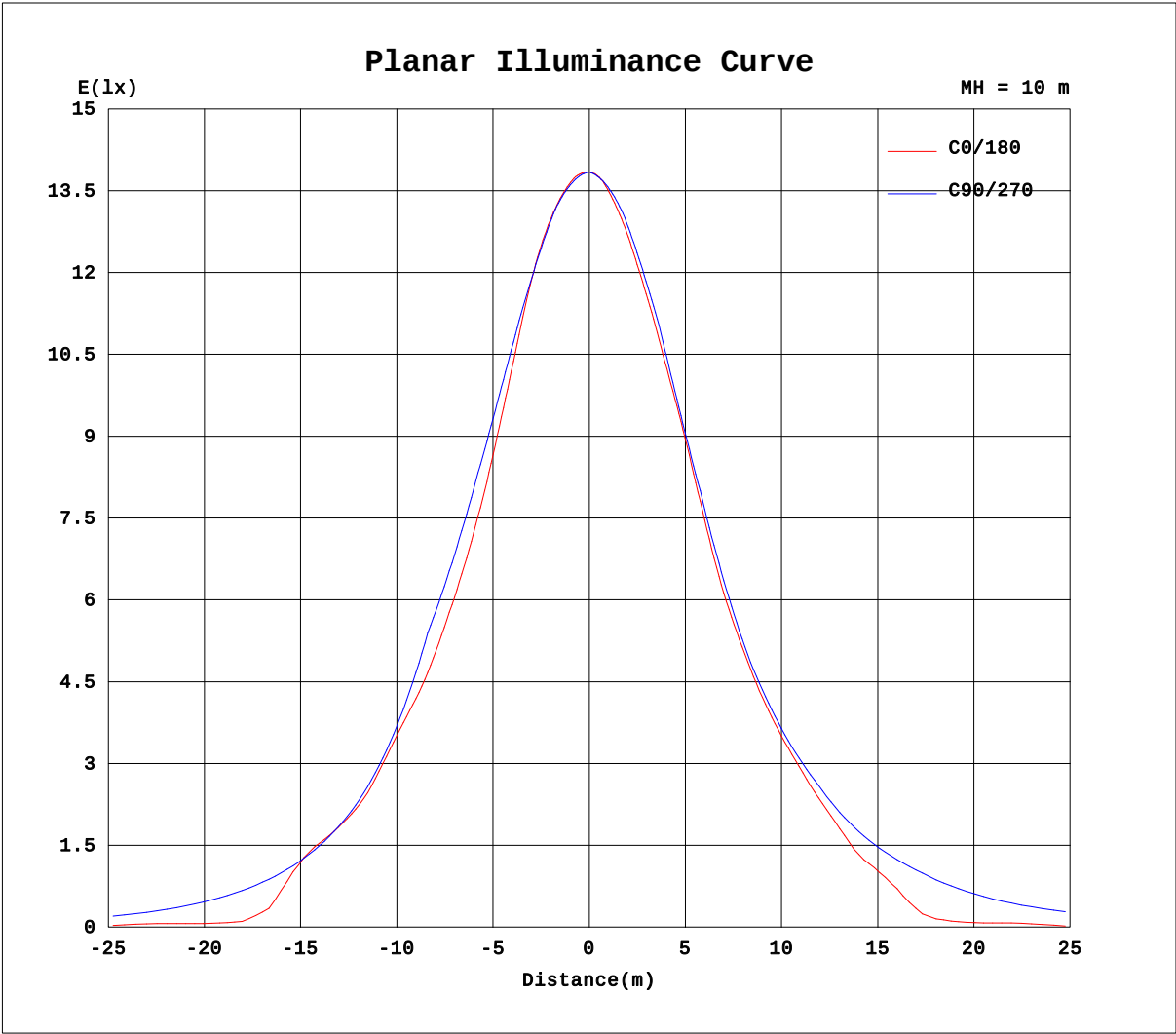
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Remarks:

Planar Illuminance Curve

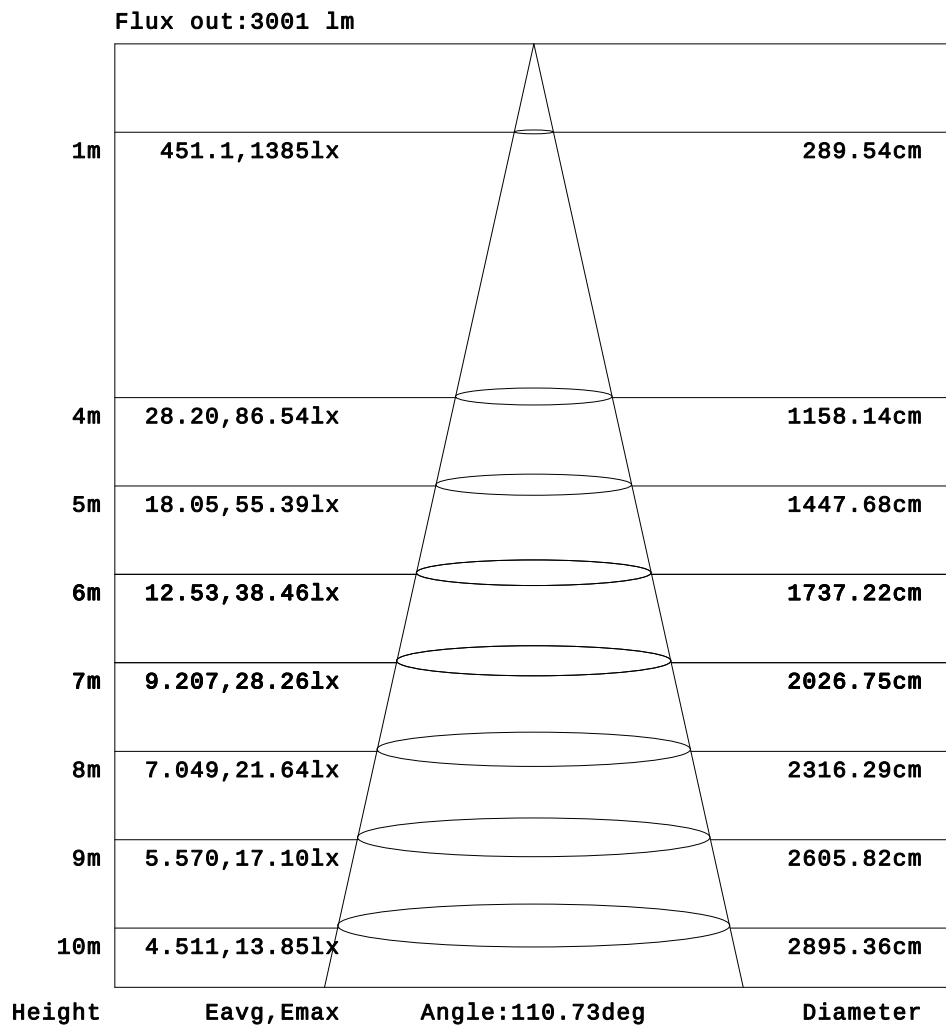


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AAI Figure

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Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.310A P:31.43W PF:1.000 Freq:0Hz Lamp Flux:3735.24x1 lm		
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Table--2 UNIT: cd

H(°) \ V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	37.0	0.00	0.00	0.72	6.45	4.16	1.39	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	190	140	176	156	17.1	9.53	7.82	22.2	12.7	12.5	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	343	280	351	311	27.8	14.9	14.3	41.7	25.4	25.1	4.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	476	427	434	420	288	265	85.0	40.2	34.4	44.1	22.6	9.02	2.67	0.00	0.00	0.00	0.00	0.00
-60	609	575	517	529	547	516	156	38.8	43.4	63.2	40.7	18.0	5.34	0.00	0.00	0.00	0.00	0.00
-55	747	730	668	650	657	655	429	356	71.5	59.4	65.2	27.7	11.6	3.27	0.00	0.00	0.00	0.00
-50	886	886	820	771	767	794	702	673	99.6	55.6	89.8	37.4	17.9	6.55	0.00	0.00	0.00	0.00
-45	1042	1043	983	913	879	871	813	733	423	127	77.4	62.3	30.1	8.27	0.00	0.00	0.00	0.00
-40	1199	1200	1145	1054	992	947	924	793	746	198	65.0	87.2	42.2	9.99	0.00	0.00	0.00	0.00
-35	1241	1241	1197	1112	1041	991	953	871	777	474	88.7	82.6	52.7	17.5	0.98	0.00	0.00	0.00
-30	1282	1281	1249	1170	1090	1035	981	949	809	750	112	78.0	63.1	25.1	1.97	0.00	0.00	0.00
-25	1310	1308	1282	1208	1128	1067	1012	974	857	774	312	78.6	78.3	32.2	5.31	0.00	0.00	0.00
-20	1338	1334	1314	1246	1165	1099	1044	998	905	798	512	79.1	93.5	39.3	8.66	0.00	0.00	0.00
-15	1357	1352	1333	1270	1190	1121	1065	1012	941	817	631	90.4	98.4	45.8	10.1	0.00	0.00	0.00
-10	1376	1369	1351	1294	1216	1143	1086	1025	977	837	750	102	103	52.4	11.6	0.00	0.00	0.00
-5	1381	1374	1357	1302	1225	1152	1094	1032	986	844	767	140	100	54.3	12.1	0.00	0.00	0.00
0	1386	1379	1363	1310	1235	1161	1101	1040	996	852	784	178	97.7	56.3	12.5	0.01	0.00	0.00
5	1376	1370	1353	1301	1226	1153	1093	1033	990	847	777	153	97.8	56.0	11.8	0.00	0.00	0.00
10	1367	1360	1343	1291	1217	1144	1084	1027	983	843	771	127	98.0	55.7	11.1	0.00	0.00	0.00
15	1346	1338	1320	1264	1190	1120	1063	1005	956	823	727	110	101	54.0	9.81	0.00	0.00	0.00
20	1325	1317	1297	1237	1162	1096	1041	984	928	803	683	94.2	104	52.3	8.49	0.00	0.00	0.00
25	1279	1272	1252	1189	1115	1054	1003	959	878	777	533	85.2	94.2	46.9	8.21	0.00	0.00	0.00
30	1233	1227	1207	1142	1068	1013	965	933	828	750	383	76.3	84.5	41.6	7.92	0.00	0.00	0.00
35	1154	1150	1124	1061	1000	956	917	878	779	675	235	83.0	67.0	31.1	6.33	0.00	0.00	0.00
40	1074	1072	1040	981	932	899	870	823	730	599	85.9	89.8	49.4	20.6	4.74	0.00	0.00	0.00
45	1027	1025	978	913	870	837	808	741	637	337	75.7	76.8	42.8	15.1	2.37	0.00	0.00	0.00
50	980	978	917	845	808	775	746	660	544	74.4	65.4	63.7	36.1	9.61	0.00	0.00	0.00	0.00
55	888	874	804	757	744	703	677	430	296	66.5	58.8	47.3	24.0	5.82	0.00	0.00	0.00	0.00
60	797	771	691	668	680	630	608	201	48.5	58.6	52.2	30.9	11.8	2.04	0.00	0.00	0.00	0.00
65	648	603	569	588	588	362	321	114	57.7	43.7	39.7	20.4	5.91	1.02	0.00	0.00	0.00	0.00
70	499	435	447	507	496	93.1	33.9	28.0	67.0	28.7	27.2	9.96	0.00	0.00	0.00	0.00	0.00	0.00
75	318	319	238															