



**UL Verification Services**  
7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300



## Photometric Indoor Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
Specialty Lighting Industries, Inc.  
Awi Salomon  
1306 Doris Avenue  
Ocean, NJ 07712

Catalog Number  
811LEDX  
Project Number  
6012-002005  
Test Number  
35566

Test Date

2012-11-12

Prepared By

Handwritten signature of Kyle Spaziani in black ink.

Kyle Spaziani, Project Coordinator

Approved By

Handwritten signature of Jeffrey M. Lockner in black ink.

Jeffrey Lockner, Engineer

The results contained in this report pertain only to the tested sample.  
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**UL Verification Services**

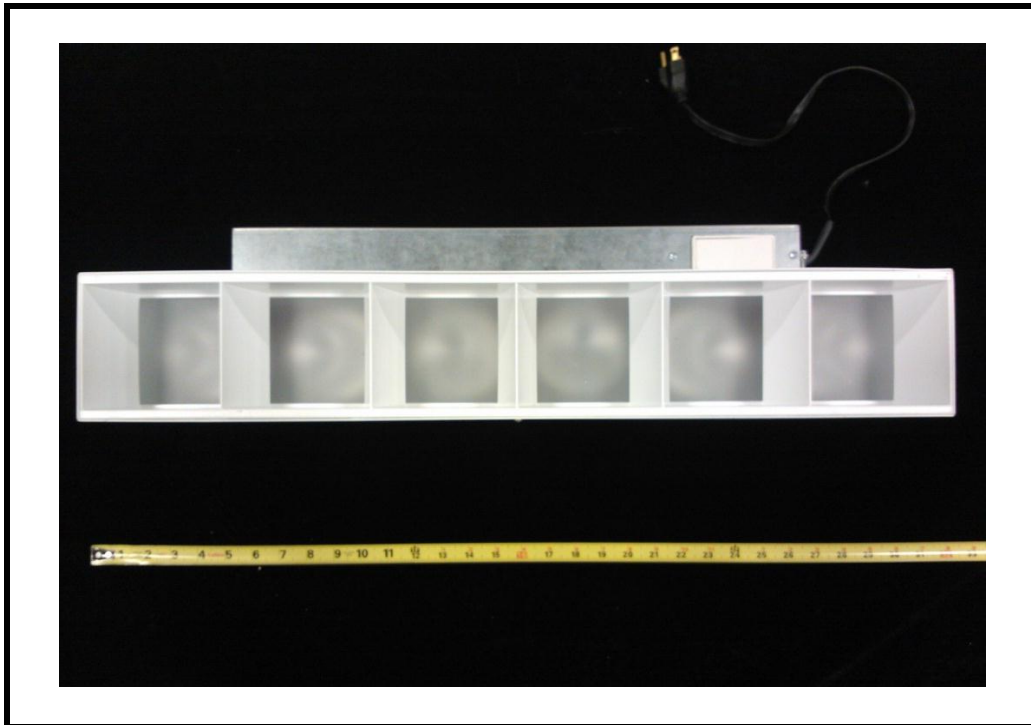
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Luminaire Description: Formed aluminum housing, extruded aluminum heatsink, molded specular faceted plastic reflector above frosted plastic upper lens, cast white enamel aluminum lower reflector / trim, frosted plastic enclosure

Catalog Number: 811LEDX  
Lamp: Six LED arrays  
Mounting: Recessed  
Ballast/Driver: One EldoLed SL1061/M

Luminaire

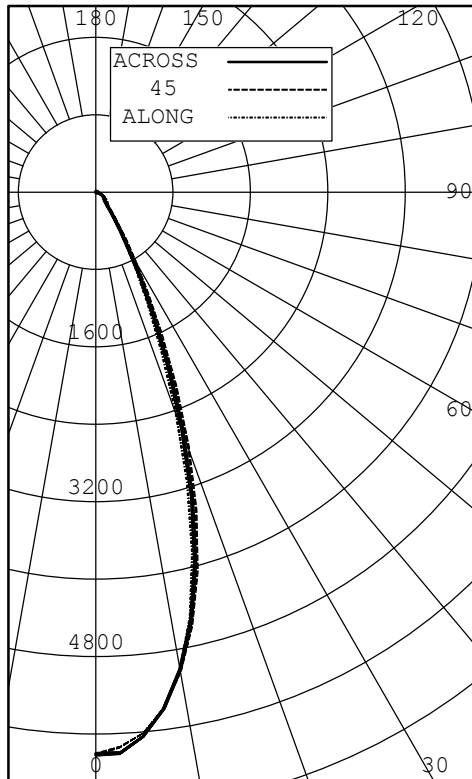


**Test Conditions**

Test Temperature:	25.6 °C
Voltage:	120.0 VAC
Current:	0.5882 A
Power:	70.05 W
Power Factor:	0.993
Frequency:	60 Hz
Current THD:	4.42 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	5810	5810	5810	5810	5810	
5	5615	5615	5614	5633	5648	524
10	5010	5029	5036	5030	5012	
15	3856	3931	4051	4050	3962	1071
20	2416	2538	2797	2766	2616	
25	1270	1380	1596	1563	1424	689
30	628	693	813	783	691	
35	335	367	420	392	338	254
40	214	227	244	221	189	
45	171	172	171	154	135	130
50	154	150	138	126	118	
55	135	133	119	111	105	108
60	119	115	102	94	88	
65	96	94	85	77	72	84
70	74	72	66	60	56	
75	53	52	47	43	41	50
80	33	32	29	27	25	
85	13	13	12	11	10	14
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	2284	78.14
0-40	2538	86.83
0-60	2775	94.95
0-90	2922	100.00
40-90	385	13.17
60-90	148	5.05
90-180	0	0.00
0-180	2922	100.00

EFFICACY (LUMENS PER WATT): 41.7

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 3.500 INS  
 WIDTH: 23.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 0.6  
 SC: 0.6

ANGLE	ALONG	45	ACROSS
45	4517	4517	3585
55	4377	3894	3410
65	4253	3745	3173
75	3825	3422	2939
85	2834	2541	2179

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA  
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	5810	5810	5810	5810	5810	5810	
2.5	5742	5745	5742	5779	5803	5760	
5.0	5615	5615	5614	5633	5648	5623	524
7.5	5377	5383	5376	5383	5383	5380	
10.0	5010	5029	5036	5030	5012	5027	
12.5	4498	4544	4591	4584	4541	4560	
15.0	3856	3931	4051	4050	3962	3985	1071
17.5	3134	3235	3444	3433	3305	3333	
20.0	2416	2538	2797	2766	2616	2654	
22.5	1781	1902	2162	2122	1971	2016	
25.0	1270	1380	1596	1563	1424	1471	689
27.5	892	980	1146	1114	999	1046	
30.0	628	693	813	783	691	737	
32.5	451	498	579	548	479	523	
35.0	335	367	420	392	338	379	254
37.5	260	282	314	288	246	284	
40.0	214	227	244	221	189	223	
42.5	187	193	200	179	155	185	
45.0	171	172	171	154	135	162	130
47.5	162	159	151	136	125	148	
50.0	154	150	138	126	118	137	
52.5	146	142	128	118	112	129	
55.0	135	133	119	111	105	121	108
57.5	128	122	111	103	96	112	
60.0	119	115	102	94	88	104	
62.5	108	105	93	85	80	94	
65.0	96	94	85	77	72	85	84
67.5	85	83	75	68	64	75	
70.0	74	72	66	60	56	66	
72.5	64	62	57	52	48	57	
75.0	53	52	47	43	41	47	50
77.5	43	42	38	35	33	38	
80.0	33	32	29	27	25	29	
82.5	23	22	20	19	18	20	
85.0	13	13	12	11	10	12	14
87.5	4	4	4	4	4	4	
90.0	0	0	0	0	0	0	



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0	
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.061	.06	1.021	.021	.021	.02	1.00
	1	1.161	.131	.111	.09	1.141	.111	.091	.07	1.121	.101	.071	.05	1.051	.041	.02		1.021	.000	.99	0.980	.970	.96	0.95		
	2	1.111	.071	.031	.00	1.091	.051	.020	.99	1.071	.031	.000	.97	1.000	.980	.95		0.970	.950	.93	0.950	.930	.91	0.90		
	3	1.071	.010	.960	.93	1.051	.000	.960	.92	1.030	.980	.950	.92	0.960	.930	.90		0.940	.910	.89	0.920	.890	.87	0.86		
	4	1.030	.960	.910	.88	1.010	.950	.910	.87	1.000	.940	.900	.86	0.920	.880	.86		0.900	.870	.85	0.880	.860	.84	0.82		
	5	0.990	.920	.860	.83	0.980	.910	.860	.82	0.960	.900	.850	.82	0.880	.840	.81		0.870	.830	.81	0.850	.820	.80	0.79		
	6	0.960	.880	.830	.79	0.940	.870	.820	.79	0.930	.860	.820	.79	0.850	.810	.78		0.840	.800	.78	0.830	.790	.77	0.76		
	7	0.920	.840	.790	.76	0.910	.840	.790	.75	0.900	.830	.780	.75	0.820	.780	.75		0.810	.770	.74	0.800	.760	.74	0.73		
	8	0.890	.810	.760	.73	0.880	.800	.760	.72	0.870	.800	.750	.72	0.790	.750	.72		0.780	.740	.72	0.770	.740	.71	0.70		
	9	0.860	.780	.730	.69	0.850	.770	.730	.69	0.840	.770	.730	.69	0.760	.720	.69		0.750	.710	.69	0.750	.710	.69	0.68		
	10	0.830	.750	.700	.67	0.820	.750	.700	.67	0.820	.740	.700	.67	0.740	.700	.67		0.730	.690	.67	0.720	.690	.66	0.65		

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS  
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.  
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD  
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST  
 LUMINOUS OPENING OF LUMINAIRE.



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## Integrating Sphere Test Report

Relevant Standards

IES LM-79-2008

ANSI C78.377-2008, ANSI C82.77

CIE 13.3-1995, CIE 15-2004

Prepared For

**Specialty Lighting Industries, Inc.**

Awi Salomon

1306 Doris Avenue

Ocean, NJ 07712

Catalog Number

**811LEDX**

Project Number

**6012-002005**

Test Number

**35567**

Test Date

2012-11-12

Prepared By

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Kyle Spaziani, Project Coordinator

Approved By

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Jeffrey Lockner, Engineer

The results contained in this report pertain only to the tested sample.

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Luminaire Description: Formed aluminum housing, extruded aluminum heatsink, molded specular faceted plastic reflector above frosted plastic upper lens, cast white enamel aluminum lower reflector / tri frosted plastic enclosure

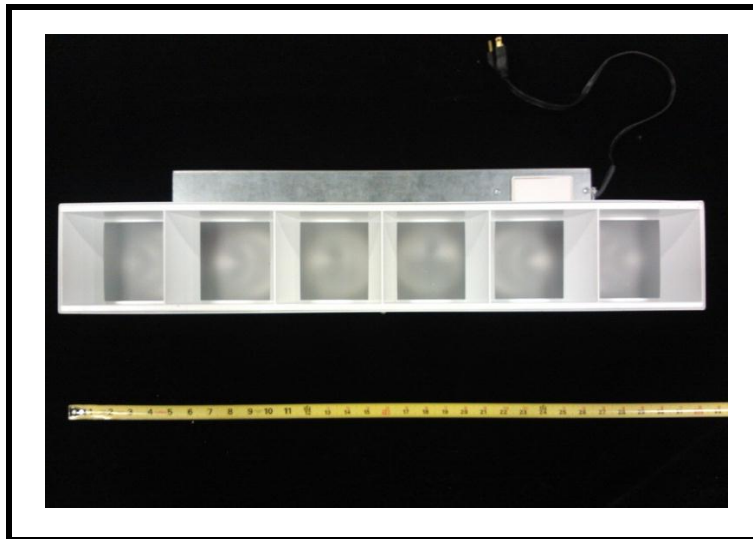
Catalog Number: 811LEDX

Lamp: Six LED arrays

Mounting: Recessed

Ballast/Driver: One EldoLed SL1061/M

Luminaire



**Summary of Results**

Radiant Flux: 9466 mW  
Luminous Flux: 3001 Lumens  
Luminaire Efficacy: 43.0 Lumens/Watt  
CCT: 3460 K  
CRI (Ra): 82.3  
Chromaticity (x): 0.4073  
Chromaticity (y): 0.3914  
Chromaticity (u): 0.2367  
Chromaticity (v): 0.3412  
Duv: -0.0004

**Test Conditions**

Test Temperature: 25.6 °C  
Voltage: 120.0 VAC  
Current: 0.5864 A  
Power: 69.87 W  
Power Factor: 0.993  
Frequency: 60 Hz  
Current THD: 4.28 %

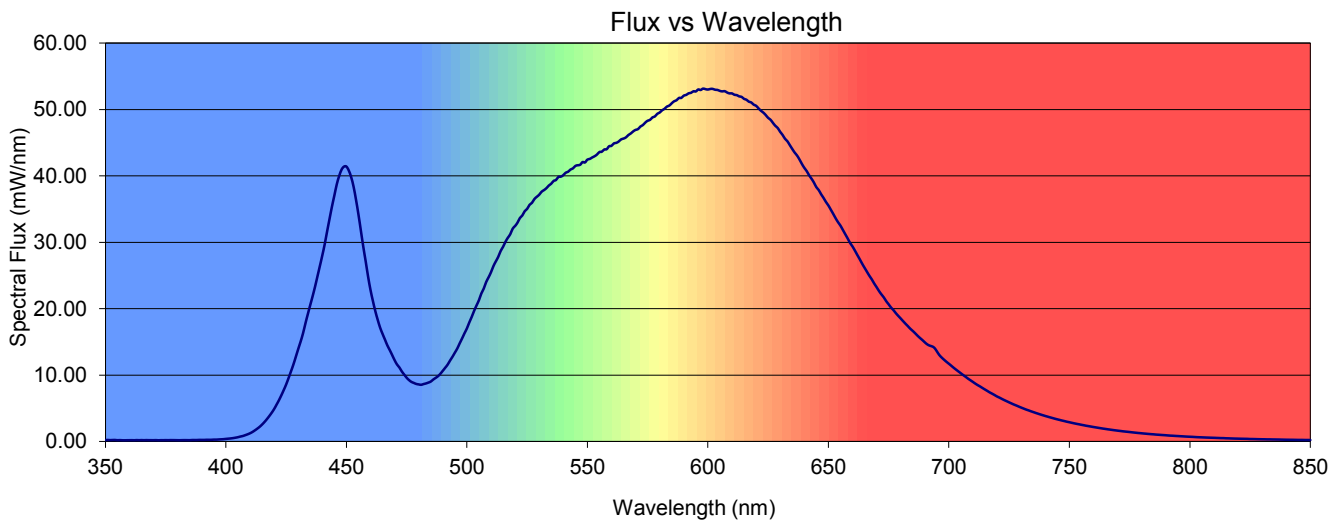
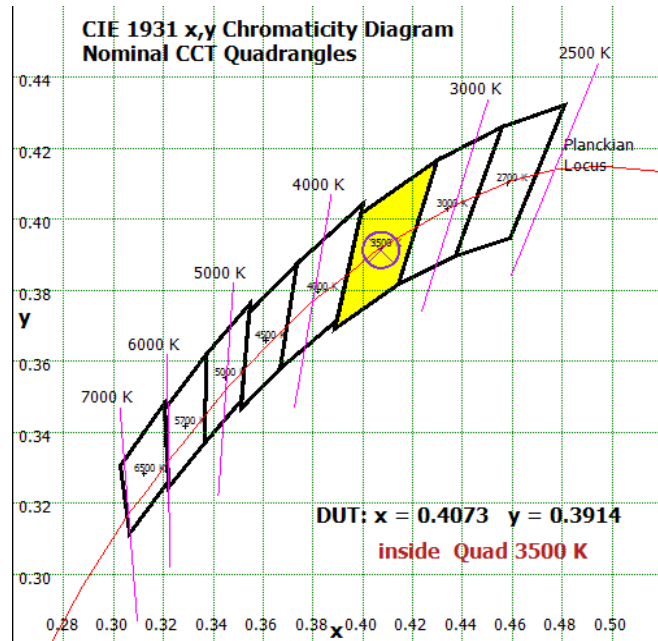
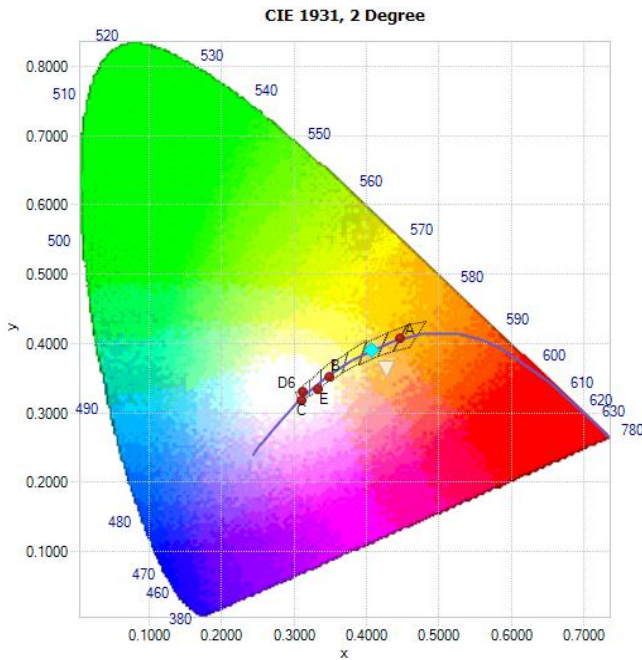


**Chromaticity Coordinates**

x	y	u	v	u'	v'	Duv
0.4073	0.3914	0.2367	0.3412	0.2367	0.5119	-0.0004

**Color Rendering Index Detail**

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.3	81.9	86.3	89.0	82.9	80.6	80.7	87.2	69.6	22.5	66.6	81.1	60.2	82.4	93.2







Spectral Power Distribution

$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm
350	0.215	422	6.20	494	12.7	566	45.8	638	42.5	710	8.96	782	1.17
351	0.234	423	6.96	495	13.4	567	46.1	639	41.8	711	8.71	783	1.13
352	0.209	424	7.75	496	14.0	568	46.4	640	41.2	712	8.48	784	1.11
353	0.226	425	8.58	497	14.8	569	46.7	641	40.7	713	8.28	785	1.08
354	0.231	426	9.55	498	15.5	570	46.9	642	40.1	714	8.04	786	1.04
355	0.196	427	10.6	499	16.3	571	47.0	643	39.6	715	7.83	787	1.02
356	0.209	428	11.6	500	17.0	572	47.4	644	39.0	716	7.61	788	0.992
357	0.189	429	12.7	501	17.9	573	47.6	645	38.3	717	7.39	789	0.967
358	0.183	430	13.9	502	18.8	574	48.0	646	37.9	718	7.20	790	0.942
359	0.191	431	15.0	503	19.7	575	48.3	647	37.2	719	6.99	791	0.911
360	0.195	432	16.3	504	20.5	576	48.4	648	36.7	720	6.78	792	0.885
361	0.201	433	17.8	505	21.3	577	48.8	649	36.1	721	6.61	793	0.866
362	0.189	434	19.2	506	22.3	578	48.9	650	35.5	722	6.41	794	0.842
363	0.212	435	20.5	507	23.0	579	49.3	651	34.9	723	6.24	795	0.821
364	0.197	436	21.9	508	24.0	580	49.5	652	34.3	724	6.07	796	0.798
365	0.214	437	23.3	509	24.7	581	49.9	653	33.6	725	5.90	797	0.779
366	0.198	438	24.9	510	25.5	582	50.1	654	33.0	726	5.73	798	0.755
367	0.214	439	26.4	511	26.4	583	50.4	655	32.5	727	5.57	799	0.736
368	0.200	440	28.0	512	27.1	584	50.6	656	31.9	728	5.42	800	0.718
369	0.202	441	29.7	513	27.8	585	50.9	657	31.2	729	5.26	801	0.701
370	0.195	442	31.6	514	28.7	586	51.2	658	30.6	730	5.11	802	0.680
371	0.209	443	33.5	515	29.3	587	51.4	659	29.9	731	4.97	803	0.656
372	0.185	444	35.3	516	30.1	588	51.7	660	29.4	732	4.82	804	0.640
373	0.201	445	37.0	517	30.7	589	51.7	661	28.8	733	4.70	805	0.628
374	0.198	446	38.7	518	31.2	590	52.1	662	28.1	734	4.56	806	0.608
375	0.210	447	40.0	519	32.0	591	52.2	663	27.5	735	4.44	807	0.596
376	0.201	448	40.9	520	32.5	592	52.4	664	26.8	736	4.31	808	0.583
377	0.211	449	41.4	521	33.0	593	52.5	665	26.2	737	4.19	809	0.569
378	0.210	450	41.4	522	33.6	594	52.7	666	25.6	738	4.07	810	0.557
379	0.206	451	40.8	523	34.0	595	52.7	667	25.0	739	3.96	811	0.543
380	0.196	452	39.8	524	34.7	596	53.0	668	24.4	740	3.85	812	0.528
381	0.193	453	38.3	525	35.0	597	52.9	669	23.8	741	3.74	813	0.514
382	0.206	454	36.4	526	35.6	598	53.1	670	23.3	742	3.64	814	0.508
383	0.209	455	34.2	527	35.9	599	53.1	671	22.7	743	3.54	815	0.487
384	0.205	456	31.8	528	36.5	600	53.0	672	22.2	744	3.43	816	0.476
385	0.199	457	29.4	529	36.8	601	53.1	673	21.7	745	3.34	817	0.461
386	0.226	458	27.1	530	37.2	602	53.1	674	21.1	746	3.25	818	0.448
387	0.224	459	24.8	531	37.6	603	53.0	675	20.7	747	3.16	819	0.439
388	0.225	460	22.8	532	37.9	604	52.9	676	20.2	748	3.07	820	0.430
389	0.246	461	21.2	533	38.1	605	52.8	677	19.8	749	2.98	821	0.422
390	0.242	462	19.6	534	38.5	606	52.7	678	19.3	750	2.90	822	0.412
391	0.242	463	18.3	535	38.8	607	52.8	679	18.9	751	2.82	823	0.407
392	0.260	464	17.1	536	39.2	608	52.5	680	18.5	752	2.74	824	0.396
393	0.258	465	16.2	537	39.4	609	52.4	681	18.1	753	2.66	825	0.379
394	0.259	466	15.3	538	39.8	610	52.4	682	17.7	754	2.59	826	0.373
395	0.285	467	14.5	539	39.9	611	52.2	683	17.4	755	2.52	827	0.365
396	0.284	468	13.8	540	40.1	612	52.2	684	17.0	756	2.45	828	0.353
397	0.308	469	13.0	541	40.5	613	52.0	685	16.7	757	2.37	829	0.346
398	0.331	470	12.3	542	40.6	614	51.9	686	16.3	758	2.31	830	0.339
399	0.353	471	11.6	543	41.0	615	51.6	687	15.9	759	2.25	831	0.332
400	0.394	472	11.1	544	41.1	616	51.5	688	15.6	760	2.19	832	0.322
401	0.428	473	10.6	545	41.5	617	51.2	689	15.3	761	2.12	833	0.321
402	0.465	474	10.1	546	41.6	618	51.1	690	14.9	762	2.06	834	0.313
403	0.515	475	9.60	547	41.7	619	50.7	691	14.6	763	2.00	835	0.308
404	0.577	476	9.25	548	42.1	620	50.6	692	14.4	764	1.94	836	0.301
405	0.650	477	8.98	549	42.0	621	50.2	693	14.3	765	1.89	837	0.296
406	0.746	478	8.82	550	42.4	622	49.8	694	14.1	766	1.84	838	0.286
407	0.828	479	8.67	551	42.5	623	49.5	695	13.6	767	1.79	839	0.278
408	0.951	480	8.60	552	42.8	624	49.2	696	13.0	768	1.73	840	0.271
409	1.08	481	8.54	553	43.0	625	48.7	697	12.7	769	1.69	841	0.263
410	1.24	482	8.65	554	43.2	626	48.5	698	12.3	770	1.64	842	0.261
411	1.43	483	8.74	555	43.6	627	48.0	699	12.0	771	1.60	843	0.255
412	1.67	484	8.87	556	43.6	628	47.5	700	11.7	772	1.55	844	0.248
413	1.93	485	9.02	557	44.0	629	47.2	701	11.4	773	1.50	845	0.240
414	2.21	486	9.32	558	44.0	630	46.6	702	11.1	774	1.47	846	0.240
415	2.55	487	9.57	559	44.5	631	46.2	703	10.8	775	1.43	847	0.237
416	2.93	488	9.83	560	44.5	632	45.6	704	10.5	776	1.38	848	0.229
417	3.36	489	10.2	561	44.9	633	45.2	705	10.3	777	1.35	849	0.229
418	3.83	490	10.6	562	45.0	634	44.6	706	9.99	778	1.31	850	0.220
419	4.33	491	11.1	563	45.2	635	44.1	707	9.73	779	1.27		
420	4.88	492	11.6	564	45.5	636	43.5	708	9.46	780	1.24		
421	5.54	493	12.2	565	45.6	637	43.1	709	9.21	781	1.20		