



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZNIA-2LEDSE-75L-CA-W-50-ID.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-10924  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUEDATE] 01/06/21  
[TESTDATE] 04/03/19  
[MANUFAC] LSI INDUSTRIES, INC  
[LUMCAT] ZNIA-2LEDSE-75L-CA-W-50-ID  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor  
[SEARCH\_COLORTEMP] 5000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	76754
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	550
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	263	295	327	359	391	424	456	488	520	552
95.0	613	666	719	772	825	879	932	985	1038	1091
97.5	1145	1212	1278	1345	1411	1478	1544	1611	1677	1744
100.0	1905	1963	2022	2080	2139	2197	2256	2314	2373	2431
102.5	2929	2959	2989	3019	3049	3078	3108	3138	3168	3198
105.0	4134	4144	4155	4165	4176	4186	4197	4207	4218	4228
107.5	5460	5464	5468	5471	5475	5479	5483	5486	5490	5494
110.0	6868	6870	6872	6875	6877	6879	6881	6884	6886	6888
112.5	8315	8322	8330	8337	8345	8352	8360	8367	8375	8382
115.0	9742	9753	9764	9776	9787	9798	9809	9821	9832	9843
117.5	11109	11125	11142	11158	11175	11191	11208	11224	11241	11257
120.0	12436	12449	12463	12476	12490	12503	12517	12530	12544	12557
122.5	13675	13684	13693	13702	13711	13719	13728	13737	13746	13755
125.0	14779	14801	14822	14844	14866	14887	14909	14931	14952	14974
127.5	15822	15843	15864	15885	15906	15927	15948	15969	15990	16011
130.0	16778	16800	16822	16843	16865	16887	16909	16930	16952	16974
132.5	17701	17721	17741	17762	17782	17802	17822	17843	17863	17883

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**CANDELA TABULATION - (Cont.)**

135.0	18542	18562	18582	18603	18623	18643	18663	18684	18704	18724
137.5	19296	19320	19344	19368	19392	19416	19440	19464	19488	19512
140.0	20003	20028	20053	20077	20102	20127	20152	20176	20201	20226
142.5	20657	20682	20706	20731	20756	20780	20805	20830	20854	20879
145.0	21249	21273	21297	21321	21345	21368	21392	21416	21440	21464
147.5	21767	21792	21818	21843	21869	21894	21920	21945	21971	21996
150.0	22232	22256	22280	22304	22328	22351	22375	22399	22423	22447
152.5	22623	22647	22671	22695	22719	22742	22766	22790	22814	22838
155.0	22959	22981	23004	23026	23049	23071	23094	23116	23139	23161
157.5	23235	23256	23277	23298	23319	23340	23361	23382	23403	23424
160.0	23464	23483	23503	23522	23542	23561	23581	23600	23620	23639
162.5	23646	23665	23683	23702	23721	23739	23758	23777	23795	23814
165.0	23787	23806	23825	23843	23862	23881	23900	23918	23937	23956
167.5	23895	23914	23932	23951	23970	23988	24007	24026	24044	24063
170.0	23976	23993	24010	24028	24045	24062	24079	24097	24114	24131
172.5	24030	24046	24061	24077	24093	24108	24124	24140	24155	24171
175.0	24057	24070	24084	24097	24111	24124	24138	24151	24165	24178
177.5	24036	24049	24062	24074	24087	24100	24113	24125	24138	24151
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

Vert. Angles	Horizontal Angles									
	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	571	589	608	627	645	664	683	701	720	723
95.0	1113	1136	1158	1181	1203	1226	1248	1271	1293	1305
97.5	1772	1799	1827	1855	1882	1910	1938	1965	1993	2018
100.0	2488	2545	2601	2658	2715	2772	2828	2885	2942	2938
102.5	3333	3467	3602	3737	3871	4006	4141	4275	4410	4305
105.0	4384	4541	4697	4853	5010	5166	5322	5479	5635	5554
107.5	5573	5653	5732	5811	5891	5970	6049	6129	6208	6297
110.0	6857	6827	6796	6765	6735	6704	6673	6643	6612	6830
112.5	8271	8161	8050	7939	7829	7718	7607	7497	7386	7577
115.0	9732	9622	9511	9400	9290	9179	9068	8958	8847	8842
117.5	11199	11140	11082	11024	10965	10907	10849	10790	10732	10552
120.0	12545	12533	12521	12509	12497	12485	12473	12461	12449	12253
122.5	13768	13781	13793	13806	13819	13832	13844	13857	13870	13760
125.0	14981	14989	14996	15004	15011	15019	15026	15034	15041	15028
127.5	16016	16021	16027	16032	16037	16042	16048	16053	16058	16095
130.0	16978	16983	16987	16992	16996	17001	17005	17010	17014	17054
132.5	17890	17896	17903	17910	17916	17923	17930	17936	17943	17966
135.0	18731	18738	18744	18751	18758	18765	18771	18778	18785	18800
137.5	19519	19526	19532	19539	19546	19553	19559	19566	19573	19577
140.0	20238	20250	20262	20274	20285	20297	20309	20321	20333	20327
142.5	20893	20907	20922	20936	20950	20964	20979	20993	21007	21002
145.0	21479	21494	21509	21524	21539	21554	21569	21584	21599	21597
147.5	22011	22026	22041	22056	22071	22086	22101	22116	22131	22130
150.0	22463	22479	22494	22510	22526	22542	22557	22573	22589	22589
152.5	22856	22874	22892	22910	22928	22946	22964	22982	23000	22998
155.0	23181	23201	23222	23242	23262	23282	23303	23323	23343	23341
157.5	23445	23466	23487	23508	23528	23549	23570	23591	23612	23611
160.0	23661	23682	23704	23726	23747	23769	23791	23812	23834	23834
162.5	23834	23854	23875	23895	23915	23935	23956	23976	23996	23998
165.0	23972	23989	24005	24022	24038	24055	24071	24088	24104	24108
167.5	24077	24090	24104	24117	24131	24144	24158	24171	24185	24190
170.0	24143	24155	24167	24179	24190	24202	24214	24226	24238	24242
172.5	24181	24192	24202	24213	24223	24234	24244	24255	24265	24269
175.0	24189	24200	24212	24223	24234	24245	24257	24268	24279	24282
177.5	24162	24173	24185	24196	24207	24218	24230	24241	24252	24254
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

**Vert. Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	726	729	732	735	738	741	744	747	751	755
95.0	1317	1329	1341	1352	1364	1376	1388	1400	1399	1399
97.5	2042	2067	2092	2116	2141	2166	2190	2215	2229	2243
100.0	2935	2931	2927	2924	2920	2916	2913	2909	2928	2946
102.5	4200	4096	3991	3886	3781	3677	3572	3467	3472	3476
105.0	5472	5391	5309	5228	5146	5065	4983	4902	4841	4779
107.5	6386	6475	6564	6653	6742	6831	6920	7009	6933	6856
110.0	7049	7267	7486	7704	7923	8141	8360	8578	8559	8540
112.5	7768	7958	8149	8340	8531	8721	8912	9103	9188	9273
115.0	8837	8831	8826	8821	8816	8810	8805	8800	8931	9062
117.5	10373	10193	10014	9834	9655	9475	9296	9116	9154	9192
120.0	12057	11861	11665	11469	11273	11077	10881	10685	10609	10532
122.5	13650	13540	13430	13320	13210	13100	12990	12880	12772	12664
125.0	15016	15003	14990	14978	14965	14952	14940	14927	14853	14779
127.5	16133	16170	16208	16245	16283	16320	16358	16395	16377	16359
130.0	17093	17133	17173	17212	17252	17292	17331	17371	17382	17393
132.5	17989	18013	18036	18059	18082	18106	18129	18152	18159	18167
135.0	18815	18830	18845	18859	18874	18889	18904	18919	18921	18924
137.5	19580	19584	19588	19591	19595	19599	19602	19606	19602	19597
140.0	20321	20315	20309	20303	20297	20291	20285	20279	20266	20254
142.5	20997	20991	20986	20981	20976	20970	20965	20960	20939	20918
145.0	21595	21592	21590	21588	21586	21583	21581	21579	21559	21539
147.5	22129	22129	22128	22127	22126	22126	22125	22124	22106	22088
150.0	22589	22589	22589	22589	22589	22589	22589	22589	22572	22555
152.5	22995	22993	22991	22988	22986	22984	22981	22979	22964	22949
155.0	23339	23336	23334	23332	23330	23327	23325	23323	23308	23293
157.5	23611	23610	23609	23609	23608	23607	23607	23606	23592	23578
160.0	23834	23834	23834	23834	23834	23834	23834	23834	23821	23809
162.5	24000	24003	24005	24007	24009	24012	24014	24016	24003	23991
165.0	24113	24117	24122	24126	24131	24135	24140	24144	24134	24123
167.5	24195	24201	24206	24211	24216	24222	24227	24232	24221	24210

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**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	24246	24249	24253	24257	24261	24264	24268	24272	24261	24250
<b>172.5</b>	24273	24276	24280	24284	24288	24291	24295	24299	24289	24278
<b>175.0</b>	24285	24288	24291	24294	24297	24300	24303	24306	24295	24285
<b>177.5</b>	24256	24259	24261	24263	24265	24268	24270	24272	24262	24251
<b>180.0</b>	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>75.0</b></u>	<u><b>77.5</b></u>	<u><b>80.0</b></u>	<u><b>82.5</b></u>	<u><b>85.0</b></u>	<u><b>87.5</b></u>	<u><b>90.0</b></u>	<u><b>92.5</b></u>	<u><b>95.0</b></u>	<u><b>97.5</b></u>
<b>0.0</b>	0	0	0	0	0	0	0	0	0	0
<b>2.5</b>	0	0	0	0	0	0	0	0	0	0
<b>5.0</b>	0	0	0	0	0	0	0	0	0	0
<b>7.5</b>	0	0	0	0	0	0	0	0	0	0
<b>10.0</b>	0	0	0	0	0	0	0	0	0	0
<b>12.5</b>	0	0	0	0	0	0	0	0	0	0
<b>15.0</b>	0	0	0	0	0	0	0	0	0	0
<b>17.5</b>	0	0	0	0	0	0	0	0	0	0
<b>20.0</b>	0	0	0	0	0	0	0	0	0	0
<b>22.5</b>	0	0	0	0	0	0	0	0	0	0
<b>25.0</b>	0	0	0	0	0	0	0	0	0	0
<b>27.5</b>	0	0	0	0	0	0	0	0	0	0
<b>30.0</b>	0	0	0	0	0	0	0	0	0	0
<b>32.5</b>	0	0	0	0	0	0	0	0	0	0
<b>35.0</b>	0	0	0	0	0	0	0	0	0	0
<b>37.5</b>	0	0	0	0	0	0	0	0	0	0
<b>40.0</b>	0	0	0	0	0	0	0	0	0	0
<b>42.5</b>	0	0	0	0	0	0	0	0	0	0
<b>45.0</b>	0	0	0	0	0	0	0	0	0	0
<b>47.5</b>	0	0	0	0	0	0	0	0	0	0
<b>50.0</b>	0	0	0	0	0	0	0	0	0	0
<b>52.5</b>	0	0	0	0	0	0	0	0	0	0
<b>55.0</b>	0	0	0	0	0	0	0	0	0	0
<b>57.5</b>	0	0	0	0	0	0	0	0	0	0
<b>60.0</b>	0	0	0	0	0	0	0	0	0	0
<b>62.5</b>	0	0	0	0	0	0	0	0	0	0
<b>65.0</b>	0	0	0	0	0	0	0	0	0	0
<b>67.5</b>	0	0	0	0	0	0	0	0	0	0
<b>70.0</b>	0	0	0	0	0	0	0	0	0	0
<b>72.5</b>	0	0	0	0	0	0	0	0	0	0
<b>75.0</b>	0	0	0	0	0	0	0	0	0	0
<b>77.5</b>	0	0	0	0	0	0	0	0	0	0
<b>80.0</b>	0	0	0	0	0	0	0	0	0	0
<b>82.5</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	0	0	0	0	0	0	0	0	0
<b>87.5</b>	0	0	0	0	0	0	0	0	0	0
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>92.5</b>	758	762	766	770	773	777	781	777	773	770
<b>95.0</b>	1398	1397	1397	1396	1395	1395	1394	1395	1395	1396
<b>97.5</b>	2258	2272	2286	2300	2315	2329	2343	2329	2315	2300
<b>100.0</b>	2965	2984	3002	3021	3040	3058	3077	3058	3040	3021
<b>102.5</b>	3481	3485	3490	3494	3499	3503	3508	3503	3499	3494
<b>105.0</b>	4718	4656	4595	4533	4472	4410	4349	4410	4472	4533
<b>107.5</b>	6780	6704	6627	6551	6475	6398	6322	6398	6475	6551
<b>110.0</b>	8522	8503	8484	8465	8447	8428	8409	8428	8447	8465
<b>112.5</b>	9359	9444	9529	9614	9700	9785	9870	9785	9700	9614
<b>115.0</b>	9193	9324	9454	9585	9716	9847	9978	9847	9716	9585

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**CANDELA TABULATION - (Cont.)**

117.5	9231	9269	9307	9345	9384	9422	9460	9422	9384	9345
120.0	10456	10380	10303	10227	10151	10074	9998	10074	10151	10227
122.5	12557	12449	12341	12233	12126	12018	11910	12018	12126	12233
125.0	14705	14631	14556	14482	14408	14334	14260	14334	14408	14482
127.5	16341	16323	16305	16287	16269	16251	16233	16251	16269	16287
130.0	17405	17416	17427	17438	17450	17461	17472	17461	17450	17438
132.5	18174	18182	18189	18197	18204	18212	18219	18212	18204	18197
135.0	18926	18928	18931	18933	18935	18938	18940	18938	18935	18933
137.5	19593	19588	19584	19579	19575	19570	19566	19570	19575	19579
140.0	20241	20228	20216	20203	20190	20178	20165	20178	20190	20203
142.5	20897	20876	20855	20834	20813	20792	20771	20792	20813	20834
145.0	21518	21498	21478	21458	21437	21417	21397	21417	21437	21458
147.5	22070	22052	22035	22017	21999	21981	21963	21981	21999	22017
150.0	22537	22520	22503	22486	22468	22451	22434	22451	22468	22486
152.5	22934	22919	22905	22890	22875	22860	22845	22860	22875	22890
155.0	23278	23263	23248	23233	23218	23203	23188	23203	23218	23233
157.5	23563	23549	23535	23521	23506	23492	23478	23492	23506	23521
160.0	23796	23783	23771	23758	23745	23733	23720	23733	23745	23758
162.5	23978	23965	23953	23940	23927	23915	23902	23915	23927	23940
165.0	24113	24102	24092	24081	24071	24060	24050	24060	24071	24081
167.5	24198	24187	24176	24165	24153	24142	24131	24142	24153	24165
170.0	24238	24227	24216	24205	24193	24182	24171	24182	24193	24205
172.5	24268	24257	24247	24236	24226	24215	24205	24215	24226	24236
175.0	24274	24264	24253	24243	24232	24222	24211	24222	24232	24243
177.5	24241	24230	24220	24209	24199	24188	24178	24188	24199	24209
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

Vert. Angles	Horizontal Angles									
	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	766	762	758	755	751	747	744	741	738	735
95.0	1397	1397	1398	1399	1399	1400	1388	1376	1364	1352
97.5	2286	2272	2258	2243	2229	2215	2190	2166	2141	2116
100.0	3002	2984	2965	2946	2928	2909	2913	2916	2920	2924
102.5	3490	3485	3481	3476	3472	3467	3572	3677	3781	3886
105.0	4595	4656	4718	4779	4841	4902	4983	5065	5146	5228
107.5	6627	6704	6780	6856	6933	7009	6920	6831	6742	6653
110.0	8484	8503	8522	8540	8559	8578	8360	8141	7923	7704
112.5	9529	9444	9359	9273	9188	9103	8912	8721	8531	8340
115.0	9454	9324	9193	9062	8931	8800	8805	8810	8816	8821
117.5	9307	9269	9231	9192	9154	9116	9296	9475	9655	9834
120.0	10303	10380	10456	10532	10609	10685	10881	11077	11273	11469
122.5	12341	12449	12557	12664	12772	12880	12990	13100	13210	13320
125.0	14556	14631	14705	14779	14853	14927	14940	14952	14965	14978
127.5	16305	16323	16341	16359	16377	16395	16358	16320	16283	16245
130.0	17427	17416	17405	17393	17382	17371	17331	17292	17252	17212
132.5	18189	18182	18174	18167	18159	18152	18129	18106	18082	18059
135.0	18931	18928	18926	18924	18921	18919	18904	18889	18874	18859
137.5	19584	19588	19593	19597	19602	19606	19602	19599	19595	19591
140.0	20216	20228	20241	20254	20266	20279	20285	20291	20297	20303
142.5	20855	20876	20897	20918	20939	20960	20965	20970	20976	20981
145.0	21478	21498	21518	21539	21559	21579	21581	21583	21586	21588
147.5	22035	22052	22070	22088	22106	22124	22125	22126	22126	22127
150.0	22503	22520	22537	22555	22572	22589	22589	22589	22589	22589
152.5	22905	22919	22934	22949	22964	22979	22981	22984	22986	22988
155.0	23248	23263	23278	23293	23308	23323	23325	23327	23330	23332
157.5	23535	23549	23563	23578	23592	23606	23607	23607	23608	23609
160.0	23771	23783	23796	23809	23821	23834	23834	23834	23834	23834
162.5	23953	23965	23978	23991	24003	24016	24014	24012	24009	24007
165.0	24092	24102	24113	24123	24134	24144	24140	24135	24131	24126
167.5	24176	24187	24198	24210	24221	24232	24227	24222	24216	24211
170.0	24216	24227	24238	24250	24261	24272	24268	24264	24261	24257
172.5	24247	24257	24268	24278	24289	24299	24295	24291	24288	24284
175.0	24253	24264	24274	24285	24295	24306	24303	24300	24297	24294
177.5	24220	24230	24241	24251	24262	24272	24270	24268	24265	24263
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

Vert. Angles	Horizontal Angles									
	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	732	729	726	723	720	701	683	664	645	627
95.0	1341	1329	1317	1305	1293	1271	1248	1226	1203	1181
97.5	2092	2067	2042	2018	1993	1965	1938	1910	1882	1855
100.0	2927	2931	2935	2938	2942	2885	2828	2772	2715	2658
102.5	3991	4096	4200	4305	4410	4275	4141	4006	3871	3737
105.0	5309	5391	5472	5554	5635	5479	5322	5166	5010	4853
107.5	6564	6475	6386	6297	6208	6129	6049	5970	5891	5811
110.0	7486	7267	7049	6830	6612	6643	6673	6704	6735	6765
112.5	8149	7958	7768	7577	7386	7497	7607	7718	7829	7939
115.0	8826	8831	8837	8842	8847	8958	9068	9179	9290	9400
117.5	10014	10193	10373	10552	10732	10790	10849	10907	10965	11024
120.0	11665	11861	12057	12253	12449	12461	12473	12485	12497	12509
122.5	13430	13540	13650	13760	13870	13857	13844	13832	13819	13806
125.0	14990	15003	15016	15028	15041	15034	15026	15019	15011	15004
127.5	16208	16170	16133	16095	16058	16053	16048	16042	16037	16032
130.0	17173	17133	17093	17054	17014	17010	17005	17001	16996	16992
132.5	18036	18013	17989	17966	17943	17936	17930	17923	17916	17910
135.0	18845	18830	18815	18800	18785	18778	18771	18765	18758	18751
137.5	19588	19584	19580	19577	19573	19566	19559	19553	19546	19539
140.0	20309	20315	20321	20327	20333	20321	20309	20297	20285	20274
142.5	20986	20991	20997	21002	21007	20993	20979	20964	20950	20936
145.0	21590	21592	21595	21597	21599	21584	21569	21554	21539	21524
147.5	22128	22129	22129	22130	22131	22116	22101	22086	22071	22056
150.0	22589	22589	22589	22589	22589	22573	22557	22542	22526	22510

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**CANDELA TABULATION - (Cont.)**

<b>152.5</b>	22991	22993	22995	22998	23000	22982	22964	22946	22928	22910
<b>155.0</b>	23334	23336	23339	23341	23343	23323	23303	23282	23262	23242
<b>157.5</b>	23609	23610	23611	23611	23612	23591	23570	23549	23528	23508
<b>160.0</b>	23834	23834	23834	23834	23834	23812	23791	23769	23747	23726
<b>162.5</b>	24005	24003	24000	23998	23996	23976	23956	23935	23915	23895
<b>165.0</b>	24122	24117	24113	24108	24104	24088	24071	24055	24038	24022
<b>167.5</b>	24206	24201	24195	24190	24185	24171	24158	24144	24131	24117
<b>170.0</b>	24253	24249	24246	24242	24238	24226	24214	24202	24190	24179
<b>172.5</b>	24280	24276	24273	24269	24265	24255	24244	24234	24223	24213
<b>175.0</b>	24291	24288	24285	24282	24279	24268	24257	24245	24234	24223
<b>177.5</b>	24261	24259	24256	24254	24252	24241	24230	24218	24207	24196
<b>180.0</b>	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>150.0</u></b>	<b><u>152.5</u></b>	<b><u>155.0</u></b>	<b><u>157.5</u></b>	<b><u>160.0</u></b>	<b><u>162.5</u></b>	<b><u>165.0</u></b>	<b><u>167.5</u></b>	<b><u>170.0</u></b>	<b><u>172.5</u></b>
<b>0.0</b>	0	0	0	0	0	0	0	0	0	0
<b>2.5</b>	0	0	0	0	0	0	0	0	0	0
<b>5.0</b>	0	0	0	0	0	0	0	0	0	0
<b>7.5</b>	0	0	0	0	0	0	0	0	0	0
<b>10.0</b>	0	0	0	0	0	0	0	0	0	0
<b>12.5</b>	0	0	0	0	0	0	0	0	0	0
<b>15.0</b>	0	0	0	0	0	0	0	0	0	0
<b>17.5</b>	0	0	0	0	0	0	0	0	0	0
<b>20.0</b>	0	0	0	0	0	0	0	0	0	0
<b>22.5</b>	0	0	0	0	0	0	0	0	0	0
<b>25.0</b>	0	0	0	0	0	0	0	0	0	0
<b>27.5</b>	0	0	0	0	0	0	0	0	0	0
<b>30.0</b>	0	0	0	0	0	0	0	0	0	0
<b>32.5</b>	0	0	0	0	0	0	0	0	0	0
<b>35.0</b>	0	0	0	0	0	0	0	0	0	0
<b>37.5</b>	0	0	0	0	0	0	0	0	0	0
<b>40.0</b>	0	0	0	0	0	0	0	0	0	0
<b>42.5</b>	0	0	0	0	0	0	0	0	0	0
<b>45.0</b>	0	0	0	0	0	0	0	0	0	0
<b>47.5</b>	0	0	0	0	0	0	0	0	0	0
<b>50.0</b>	0	0	0	0	0	0	0	0	0	0
<b>52.5</b>	0	0	0	0	0	0	0	0	0	0
<b>55.0</b>	0	0	0	0	0	0	0	0	0	0
<b>57.5</b>	0	0	0	0	0	0	0	0	0	0
<b>60.0</b>	0	0	0	0	0	0	0	0	0	0
<b>62.5</b>	0	0	0	0	0	0	0	0	0	0
<b>65.0</b>	0	0	0	0	0	0	0	0	0	0
<b>67.5</b>	0	0	0	0	0	0	0	0	0	0
<b>70.0</b>	0	0	0	0	0	0	0	0	0	0
<b>72.5</b>	0	0	0	0	0	0	0	0	0	0
<b>75.0</b>	0	0	0	0	0	0	0	0	0	0
<b>77.5</b>	0	0	0	0	0	0	0	0	0	0
<b>80.0</b>	0	0	0	0	0	0	0	0	0	0
<b>82.5</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	0	0	0	0	0	0	0	0	0
<b>87.5</b>	0	0	0	0	0	0	0	0	0	0
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>92.5</b>	608	589	571	552	520	488	456	424	391	359
<b>95.0</b>	1158	1136	1113	1091	1038	985	932	879	825	772
<b>97.5</b>	1827	1799	1772	1744	1677	1611	1544	1478	1411	1345

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**CANDELA TABULATION - (Cont.)**

100.0	2601	2545	2488	2431	2373	2314	2256	2197	2139	2080
102.5	3602	3467	3333	3198	3168	3138	3108	3078	3049	3019
105.0	4697	4541	4384	4228	4218	4207	4197	4186	4176	4165
107.5	5732	5653	5573	5494	5490	5486	5483	5479	5475	5471
110.0	6796	6827	6857	6888	6886	6884	6881	6879	6877	6875
112.5	8050	8161	8271	8382	8375	8367	8360	8352	8345	8337
115.0	9511	9622	9732	9843	9832	9821	9809	9798	9787	9776
117.5	11082	11140	11199	11257	11241	11224	11208	11191	11175	11158
120.0	12521	12533	12545	12557	12544	12530	12517	12503	12490	12476
122.5	13793	13781	13768	13755	13746	13737	13728	13719	13711	13702
125.0	14996	14989	14981	14974	14952	14931	14909	14887	14866	14844
127.5	16027	16021	16016	16011	15990	15969	15948	15927	15906	15885
130.0	16987	16983	16978	16974	16952	16930	16909	16887	16865	16843
132.5	17903	17896	17890	17883	17863	17843	17822	17802	17782	17762
135.0	18744	18738	18731	18724	18704	18684	18663	18643	18623	18603
137.5	19532	19526	19519	19512	19488	19464	19440	19416	19392	19368
140.0	20262	20250	20238	20226	20201	20176	20152	20127	20102	20077
142.5	20922	20907	20893	20879	20854	20830	20805	20780	20756	20731
145.0	21509	21494	21479	21464	21440	21416	21392	21368	21345	21321
147.5	22041	22026	22011	21996	21971	21945	21920	21894	21869	21843
150.0	22494	22479	22463	22447	22423	22399	22375	22351	22328	22304
152.5	22892	22874	22856	22838	22814	22790	22766	22742	22719	22695
155.0	23222	23201	23181	23161	23139	23116	23094	23071	23049	23026
157.5	23487	23466	23445	23424	23403	23382	23361	23340	23319	23298
160.0	23704	23682	23661	23639	23620	23600	23581	23561	23542	23522
162.5	23875	23854	23834	23814	23795	23777	23758	23739	23721	23702
165.0	24005	23989	23972	23956	23937	23918	23900	23881	23862	23843
167.5	24104	24090	24077	24063	24044	24026	24007	23988	23970	23951
170.0	24167	24155	24143	24131	24114	24097	24079	24062	24045	24028
172.5	24202	24192	24181	24171	24155	24140	24124	24108	24093	24077
175.0	24212	24200	24189	24178	24165	24151	24138	24124	24111	24097
177.5	24185	24173	24162	24151	24138	24125	24113	24100	24087	24074
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

Vert. Angles	Horizontal Angles									
	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	327	295	263	295	327	359	391	424	456	488
95.0	719	666	613	666	719	772	825	879	932	985
97.5	1278	1212	1145	1212	1278	1345	1411	1478	1544	1611
100.0	2022	1963	1905	1963	2022	2080	2139	2197	2256	2314
102.5	2989	2959	2929	2959	2989	3019	3049	3078	3108	3138
105.0	4155	4144	4134	4144	4155	4165	4176	4186	4197	4207
107.5	5468	5464	5460	5464	5468	5471	5475	5479	5483	5486
110.0	6872	6870	6868	6870	6872	6875	6877	6879	6881	6884
112.5	8330	8322	8315	8322	8330	8337	8345	8352	8360	8367
115.0	9764	9753	9742	9753	9764	9776	9787	9798	9809	9821
117.5	11142	11125	11109	11125	11142	11158	11175	11191	11208	11224
120.0	12463	12449	12436	12449	12463	12476	12490	12503	12517	12530
122.5	13693	13684	13675	13684	13693	13702	13711	13719	13728	13737
125.0	14822	14801	14779	14801	14822	14844	14866	14887	14909	14931
127.5	15864	15843	15822	15843	15864	15885	15906	15927	15948	15969
130.0	16822	16800	16778	16800	16822	16843	16865	16887	16909	16930
132.5	17741	17721	17701	17721	17741	17762	17782	17802	17822	17843
135.0	18582	18562	18542	18562	18582	18603	18623	18643	18663	18684
137.5	19344	19320	19296	19320	19344	19368	19392	19416	19440	19464
140.0	20053	20028	20003	20028	20053	20077	20102	20127	20152	20176
142.5	20706	20682	20657	20682	20706	20731	20756	20780	20805	20830
145.0	21297	21273	21249	21273	21297	21321	21345	21368	21392	21416
147.5	21818	21792	21767	21792	21818	21843	21869	21894	21920	21945
150.0	22280	22256	22232	22256	22280	22304	22328	22351	22375	22399
152.5	22671	22647	22623	22647	22671	22695	22719	22742	22766	22790
155.0	23004	22981	22959	22981	23004	23026	23049	23071	23094	23116
157.5	23277	23256	23235	23256	23277	23298	23319	23340	23361	23382
160.0	23503	23483	23464	23483	23503	23522	23542	23561	23581	23600
162.5	23683	23665	23646	23665	23683	23702	23721	23739	23758	23777
165.0	23825	23806	23787	23806	23825	23843	23862	23881	23900	23918
167.5	23932	23914	23895	23914	23932	23951	23970	23988	24007	24026
170.0	24010	23993	23976	23993	24010	24028	24045	24062	24079	24097
172.5	24061	24046	24030	24046	24061	24077	24093	24108	24124	24140
175.0	24084	24070	24057	24070	24084	24097	24111	24124	24138	24151
177.5	24062	24049	24036	24049	24062	24074	24087	24100	24113	24125
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	520	552	571	589	608	627	645	664	683	701
95.0	1038	1091	1113	1136	1158	1181	1203	1226	1248	1271
97.5	1677	1744	1772	1799	1827	1855	1882	1910	1938	1965
100.0	2373	2431	2488	2545	2601	2658	2715	2772	2828	2885
102.5	3168	3198	3333	3467	3602	3737	3871	4006	4141	4275
105.0	4218	4228	4384	4541	4697	4853	5010	5166	5322	5479
107.5	5490	5494	5573	5653	5732	5811	5891	5970	6049	6129
110.0	6886	6888	6857	6827	6796	6765	6735	6704	6673	6643
112.5	8375	8382	8271	8161	8050	7939	7829	7718	7607	7497
115.0	9832	9843	9732	9622	9511	9400	9290	9179	9068	8958
117.5	11241	11257	11199	11140	11082	11024	10965	10907	10849	10790
120.0	12544	12557	12545	12533	12521	12509	12497	12485	12473	12461
122.5	13746	13755	13768	13781	13793	13806	13819	13832	13844	13857
125.0	14952	14974	14981	14989	14996	15004	15011	15019	15026	15034
127.5	15990	16011	16016	16021	16027	16032	16037	16042	16048	16053
130.0	16952	16974	16978	16983	16987	16992	16996	17001	17005	17010

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**CANDELA TABULATION - (Cont.)**

132.5	17863	17883	17890	17896	17903	17910	17916	17923	17930	17936
135.0	18704	18724	18731	18738	18744	18751	18758	18765	18771	18778
137.5	19488	19512	19519	19526	19532	19539	19546	19553	19559	19566
140.0	20201	20226	20238	20250	20262	20274	20285	20297	20309	20321
142.5	20854	20879	20893	20907	20922	20936	20950	20964	20979	20993
145.0	21440	21464	21479	21494	21509	21524	21539	21554	21569	21584
147.5	21971	21996	22011	22026	22041	22056	22071	22086	22101	22116
150.0	22423	22447	22463	22479	22494	22510	22526	22542	22557	22573
152.5	22814	22838	22856	22874	22892	22910	22928	22946	22964	22982
155.0	23139	23161	23181	23201	23222	23242	23262	23282	23303	23323
157.5	23403	23424	23445	23466	23487	23508	23528	23549	23570	23591
160.0	23620	23639	23661	23682	23704	23726	23747	23769	23791	23812
162.5	23795	23814	23834	23854	23875	23895	23915	23935	23956	23976
165.0	23937	23956	23972	23989	24005	24022	24038	24055	24071	24088
167.5	24044	24063	24077	24090	24104	24117	24131	24144	24158	24171
170.0	24114	24131	24143	24155	24167	24179	24190	24202	24214	24226
172.5	24155	24171	24181	24192	24202	24213	24223	24234	24244	24255
175.0	24165	24178	24189	24200	24212	24223	24234	24245	24257	24268
177.5	24138	24151	24162	24173	24185	24196	24207	24218	24230	24241
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

Vert. Angles	Horizontal Angles									
	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	720	723	726	729	732	735	738	741	744	747
95.0	1293	1305	1317	1329	1341	1352	1364	1376	1388	1400
97.5	1993	2018	2042	2067	2092	2116	2141	2166	2190	2215
100.0	2942	2938	2935	2931	2927	2924	2920	2916	2913	2909
102.5	4410	4305	4200	4096	3991	3886	3781	3677	3572	3467
105.0	5635	5554	5472	5391	5309	5228	5146	5065	4983	4902
107.5	6208	6297	6386	6475	6564	6653	6742	6831	6920	7009
110.0	6612	6830	7049	7267	7486	7704	7923	8141	8360	8578
112.5	7386	7577	7768	7958	8149	8340	8531	8721	8912	9103
115.0	8847	8842	8837	8831	8826	8821	8816	8810	8805	8800
117.5	10732	10552	10373	10193	10014	9834	9655	9475	9296	9116
120.0	12449	12253	12057	11861	11665	11469	11273	11077	10881	10685
122.5	13870	13760	13650	13540	13430	13320	13210	13100	12990	12880
125.0	15041	15028	15016	15003	14990	14978	14965	14952	14940	14927
127.5	16058	16095	16133	16170	16208	16245	16283	16320	16358	16395
130.0	17014	17054	17093	17133	17173	17212	17252	17292	17331	17371
132.5	17943	17966	17989	18013	18036	18059	18082	18106	18129	18152
135.0	18785	18800	18815	18830	18845	18859	18874	18889	18904	18919
137.5	19573	19577	19580	19584	19588	19591	19595	19599	19602	19606
140.0	20333	20327	20321	20315	20309	20303	20297	20291	20285	20279
142.5	21007	21002	20997	20991	20986	20981	20976	20970	20965	20960
145.0	21599	21597	21595	21592	21590	21588	21586	21583	21581	21579
147.5	22131	22130	22129	22129	22128	22127	22126	22126	22125	22124
150.0	22589	22589	22589	22589	22589	22589	22589	22589	22589	22589
152.5	23000	22998	22995	22993	22991	22988	22986	22984	22981	22979
155.0	23343	23341	23339	23336	23334	23332	23330	23327	23325	23323
157.5	23612	23611	23611	23610	23609	23609	23608	23607	23607	23606
160.0	23834	23834	23834	23834	23834	23834	23834	23834	23834	23834
162.5	23996	23998	24000	24003	24005	24007	24009	24012	24014	24016
165.0	24104	24108	24113	24117	24122	24126	24131	24135	24140	24144
167.5	24185	24190	24195	24201	24206	24211	24216	24222	24227	24232
170.0	24238	24242	24246	24249	24253	24257	24261	24264	24268	24272
172.5	24265	24269	24273	24276	24280	24284	24288	24291	24295	24299
175.0	24279	24282	24285	24288	24291	24294	24297	24300	24303	24306
177.5	24252	24254	24256	24259	24261	24263	24265	24268	24270	24272
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

**Vert. Angles**      **Horizontal Angles**

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	751	755	758	762	766	770	773	777	781	777
95.0	1399	1399	1398	1397	1397	1396	1395	1395	1394	1395
97.5	2229	2243	2258	2272	2286	2300	2315	2329	2343	2329
100.0	2928	2946	2965	2984	3002	3021	3040	3058	3077	3058
102.5	3472	3476	3481	3485	3490	3494	3499	3503	3508	3503
105.0	4841	4779	4718	4656	4595	4533	4472	4410	4349	4410
107.5	6933	6856	6780	6704	6627	6551	6475	6398	6322	6398
110.0	8559	8540	8522	8503	8484	8465	8447	8428	8409	8428
112.5	9188	9273	9359	9444	9529	9614	9700	9785	9870	9785
115.0	8931	9062	9193	9324	9454	9585	9716	9847	9978	9847
117.5	9154	9192	9231	9269	9307	9345	9384	9422	9460	9422
120.0	10609	10532	10456	10380	10303	10227	10151	10074	9998	10074
122.5	12772	12664	12557	12449	12341	12233	12126	12018	11910	12018
125.0	14853	14779	14705	14631	14556	14482	14408	14334	14260	14334
127.5	16377	16359	16341	16323	16305	16287	16269	16251	16233	16251
130.0	17382	17393	17405	17416	17427	17438	17450	17461	17472	17461
132.5	18159	18167	18174	18182	18189	18197	18204	18212	18219	18212
135.0	18921	18924	18926	18928	18931	18933	18935	18938	18940	18938
137.5	19602	19597	19593	19588	19584	19579	19575	19570	19566	19570
140.0	20266	20254	20241	20228	20216	20203	20190	20178	20165	20178
142.5	20939	20918	20897	20876	20855	20834	20813	20792	20771	20792
145.0	21559	21539	21518	21498	21478	21458	21437	21417	21397	21417
147.5	22106	22088	22070	22052	22035	22017	21999	21981	21963	21981
150.0	22572	22555	22537	22520	22503	22486	22468	22451	22434	22451
152.5	22964	22949	22934	22919	22905	22890	22875	22860	22845	22860
155.0	23308	23293	23278	23263	23248	23233	23218	23203	23188	23203
157.5	23592	23578	23563	23549	23535	23521	23506	23492	23478	23492
160.0	23821	23809	23796	23783	23771	23758	23745	23733	23720	23733
162.5	24003	23991	23978	23965	23953	23940	23927	23915	23902	23915
165.0	24134	24123	24113	24102	24092	24081	24071	24060	24050	24060

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**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	24221	24210	24198	24187	24176	24165	24153	24142	24131	24142
<b>170.0</b>	24261	24250	24238	24227	24216	24205	24193	24182	24171	24182
<b>172.5</b>	24289	24278	24268	24257	24247	24236	24226	24215	24205	24215
<b>175.0</b>	24295	24285	24274	24264	24253	24243	24232	24222	24211	24222
<b>177.5</b>	24262	24251	24241	24230	24220	24209	24199	24188	24178	24188
<b>180.0</b>	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

**Vert. Horizontal Angles**

	<u><b>275.0</b></u>	<u><b>277.5</b></u>	<u><b>280.0</b></u>	<u><b>282.5</b></u>	<u><b>285.0</b></u>	<u><b>287.5</b></u>	<u><b>290.0</b></u>	<u><b>292.5</b></u>	<u><b>295.0</b></u>	<u><b>297.5</b></u>
<b>0.0</b>	0	0	0	0	0	0	0	0	0	0
<b>2.5</b>	0	0	0	0	0	0	0	0	0	0
<b>5.0</b>	0	0	0	0	0	0	0	0	0	0
<b>7.5</b>	0	0	0	0	0	0	0	0	0	0
<b>10.0</b>	0	0	0	0	0	0	0	0	0	0
<b>12.5</b>	0	0	0	0	0	0	0	0	0	0
<b>15.0</b>	0	0	0	0	0	0	0	0	0	0
<b>17.5</b>	0	0	0	0	0	0	0	0	0	0
<b>20.0</b>	0	0	0	0	0	0	0	0	0	0
<b>22.5</b>	0	0	0	0	0	0	0	0	0	0
<b>25.0</b>	0	0	0	0	0	0	0	0	0	0
<b>27.5</b>	0	0	0	0	0	0	0	0	0	0
<b>30.0</b>	0	0	0	0	0	0	0	0	0	0
<b>32.5</b>	0	0	0	0	0	0	0	0	0	0
<b>35.0</b>	0	0	0	0	0	0	0	0	0	0
<b>37.5</b>	0	0	0	0	0	0	0	0	0	0
<b>40.0</b>	0	0	0	0	0	0	0	0	0	0
<b>42.5</b>	0	0	0	0	0	0	0	0	0	0
<b>45.0</b>	0	0	0	0	0	0	0	0	0	0
<b>47.5</b>	0	0	0	0	0	0	0	0	0	0
<b>50.0</b>	0	0	0	0	0	0	0	0	0	0
<b>52.5</b>	0	0	0	0	0	0	0	0	0	0
<b>55.0</b>	0	0	0	0	0	0	0	0	0	0
<b>57.5</b>	0	0	0	0	0	0	0	0	0	0
<b>60.0</b>	0	0	0	0	0	0	0	0	0	0
<b>62.5</b>	0	0	0	0	0	0	0	0	0	0
<b>65.0</b>	0	0	0	0	0	0	0	0	0	0
<b>67.5</b>	0	0	0	0	0	0	0	0	0	0
<b>70.0</b>	0	0	0	0	0	0	0	0	0	0
<b>72.5</b>	0	0	0	0	0	0	0	0	0	0
<b>75.0</b>	0	0	0	0	0	0	0	0	0	0
<b>77.5</b>	0	0	0	0	0	0	0	0	0	0
<b>80.0</b>	0	0	0	0	0	0	0	0	0	0
<b>82.5</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	0	0	0	0	0	0	0	0	0
<b>87.5</b>	0	0	0	0	0	0	0	0	0	0
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>92.5</b>	773	770	766	762	758	755	751	747	744	741
<b>95.0</b>	1395	1396	1397	1397	1398	1399	1399	1400	1388	1376
<b>97.5</b>	2315	2300	2286	2272	2258	2243	2229	2215	2190	2166
<b>100.0</b>	3040	3021	3002	2984	2965	2946	2928	2909	2913	2916
<b>102.5</b>	3499	3494	3490	3485	3481	3476	3472	3467	3572	3677
<b>105.0</b>	4472	4533	4595	4656	4718	4779	4841	4902	4983	5065
<b>107.5</b>	6475	6551	6627	6704	6780	6856	6933	7009	6920	6831
<b>110.0</b>	8447	8465	8484	8503	8522	8540	8559	8578	8360	8141
<b>112.5</b>	9700	9614	9529	9444	9359	9273	9188	9103	8912	8721

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**CANDELA TABULATION - (Cont.)**

115.0	9716	9585	9454	9324	9193	9062	8931	8800	8805	8810
117.5	9384	9345	9307	9269	9231	9192	9154	9116	9296	9475
120.0	10151	10227	10303	10380	10456	10532	10609	10685	10881	11077
122.5	12126	12233	12341	12449	12557	12664	12772	12880	12990	13100
125.0	14408	14482	14556	14631	14705	14779	14853	14927	14940	14952
127.5	16269	16287	16305	16323	16341	16359	16377	16395	16358	16320
130.0	17450	17438	17427	17416	17405	17393	17382	17371	17331	17292
132.5	18204	18197	18189	18182	18174	18167	18159	18152	18129	18106
135.0	18935	18933	18931	18928	18926	18924	18921	18919	18904	18889
137.5	19575	19579	19584	19588	19593	19597	19602	19606	19602	19599
140.0	20190	20203	20216	20228	20241	20254	20266	20279	20285	20291
142.5	20813	20834	20855	20876	20897	20918	20939	20960	20965	20970
145.0	21437	21458	21478	21498	21518	21539	21559	21579	21581	21583
147.5	21999	22017	22035	22052	22070	22088	22106	22124	22125	22126
150.0	22468	22486	22503	22520	22537	22555	22572	22589	22589	22589
152.5	22875	22890	22905	22919	22934	22949	22964	22979	22981	22984
155.0	23218	23233	23248	23263	23278	23293	23308	23323	23325	23327
157.5	23506	23521	23535	23549	23563	23578	23592	23606	23607	23607
160.0	23745	23758	23771	23783	23796	23809	23821	23834	23834	23834
162.5	23927	23940	23953	23965	23978	23991	24003	24016	24014	24012
165.0	24071	24081	24092	24102	24113	24123	24134	24144	24140	24135
167.5	24153	24165	24176	24187	24198	24210	24221	24232	24227	24222
170.0	24193	24205	24216	24227	24238	24250	24261	24272	24268	24264
172.5	24226	24236	24247	24257	24268	24278	24289	24299	24295	24291
175.0	24232	24243	24253	24264	24274	24285	24295	24306	24303	24300
177.5	24199	24209	24220	24230	24241	24251	24262	24272	24270	24268
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

Vert. Angles	Horizontal Angles									
	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	738	735	732	729	726	723	720	701	683	664
95.0	1364	1352	1341	1329	1317	1305	1293	1271	1248	1226
97.5	2141	2116	2092	2067	2042	2018	1993	1965	1938	1910
100.0	2920	2924	2927	2931	2935	2938	2942	2885	2828	2772
102.5	3781	3886	3991	4096	4200	4305	4410	4275	4141	4006
105.0	5146	5228	5309	5391	5472	5554	5635	5479	5322	5166
107.5	6742	6653	6564	6475	6386	6297	6208	6129	6049	5970
110.0	7923	7704	7486	7267	7049	6830	6612	6643	6673	6704
112.5	8531	8340	8149	7958	7768	7577	7386	7497	7607	7718
115.0	8816	8821	8826	8831	8837	8842	8847	8958	9068	9179
117.5	9655	9834	10014	10193	10373	10552	10732	10790	10849	10907
120.0	11273	11469	11665	11861	12057	12253	12449	12461	12473	12485
122.5	13210	13320	13430	13540	13650	13760	13870	13857	13844	13832
125.0	14965	14978	14990	15003	15016	15028	15041	15034	15026	15019
127.5	16283	16245	16208	16170	16133	16095	16058	16053	16048	16042
130.0	17252	17212	17173	17133	17093	17054	17014	17010	17005	17001
132.5	18082	18059	18036	18013	17989	17966	17943	17936	17930	17923
135.0	18874	18859	18845	18830	18815	18800	18785	18778	18771	18765
137.5	19595	19591	19588	19584	19580	19577	19573	19566	19559	19553
140.0	20297	20303	20309	20315	20321	20327	20333	20321	20309	20297
142.5	20976	20981	20986	20991	20997	21002	21007	20993	20979	20964
145.0	21586	21588	21590	21592	21595	21597	21599	21584	21569	21554
147.5	22126	22127	22128	22129	22129	22130	22131	22116	22101	22086
150.0	22589	22589	22589	22589	22589	22589	22589	22573	22557	22542
152.5	22986	22988	22991	22993	22995	22998	23000	22982	22964	22946
155.0	23330	23332	23334	23336	23339	23341	23343	23323	23303	23282
157.5	23608	23609	23609	23610	23611	23611	23612	23591	23570	23549
160.0	23834	23834	23834	23834	23834	23834	23834	23812	23791	23769
162.5	24009	24007	24005	24003	24000	23998	23996	23976	23956	23935
165.0	24131	24126	24122	24117	24113	24108	24104	24088	24071	24055
167.5	24216	24211	24206	24201	24195	24190	24185	24171	24158	24144
170.0	24261	24257	24253	24249	24246	24242	24238	24226	24214	24202
172.5	24288	24284	24280	24276	24273	24269	24265	24255	24244	24234
175.0	24297	24294	24291	24288	24285	24282	24279	24268	24257	24245
177.5	24265	24263	24261	24259	24256	24254	24252	24241	24230	24218
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

**Vert. Angles**      **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
7.5	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

10.0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
17.5	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
22.5	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
27.5	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
32.5	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
37.5	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
42.5	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
52.5	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
57.5	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
92.5	645	627	608	589	571	552	520	488	456	424
95.0	1203	1181	1158	1136	1113	1091	1038	985	932	879
97.5	1882	1855	1827	1799	1772	1744	1677	1611	1544	1478
100.0	2715	2658	2601	2545	2488	2431	2373	2314	2256	2197
102.5	3871	3737	3602	3467	3333	3198	3168	3138	3108	3078
105.0	5010	4853	4697	4541	4384	4228	4218	4207	4197	4186
107.5	5891	5811	5732	5653	5573	5494	5490	5486	5483	5479
110.0	6735	6765	6796	6827	6857	6888	6886	6884	6881	6879
112.5	7829	7939	8050	8161	8271	8382	8375	8367	8360	8352
115.0	9290	9400	9511	9622	9732	9843	9832	9821	9809	9798
117.5	10965	11024	11082	11140	11199	11257	11241	11224	11208	11191
120.0	12497	12509	12521	12533	12545	12557	12544	12530	12517	12503
122.5	13819	13806	13793	13781	13768	13755	13746	13737	13728	13719
125.0	15011	15004	14996	14989	14981	14974	14952	14931	14909	14887
127.5	16037	16032	16027	16021	16016	16011	15990	15969	15948	15927
130.0	16996	16992	16987	16983	16978	16974	16952	16930	16909	16887
132.5	17916	17910	17903	17896	17890	17883	17863	17843	17822	17802
135.0	18758	18751	18744	18738	18731	18724	18704	18684	18663	18643
137.5	19546	19539	19532	19526	19519	19512	19488	19464	19440	19416
140.0	20285	20274	20262	20250	20238	20226	20201	20176	20152	20127
142.5	20950	20936	20922	20907	20893	20879	20854	20830	20805	20780
145.0	21539	21524	21509	21494	21479	21464	21440	21416	21392	21368
147.5	22071	22056	22041	22026	22011	21996	21971	21945	21920	21894

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**CANDELA TABULATION - (Cont.)**

150.0	22526	22510	22494	22479	22463	22447	22423	22399	22375	22351
152.5	22928	22910	22892	22874	22856	22838	22814	22790	22766	22742
155.0	23262	23242	23222	23201	23181	23161	23139	23116	23094	23071
157.5	23528	23508	23487	23466	23445	23424	23403	23382	23361	23340
160.0	23747	23726	23704	23682	23661	23639	23620	23600	23581	23561
162.5	23915	23895	23875	23854	23834	23814	23795	23777	23758	23739
165.0	24038	24022	24005	23989	23972	23956	23937	23918	23900	23881
167.5	24131	24117	24104	24090	24077	24063	24044	24026	24007	23988
170.0	24190	24179	24167	24155	24143	24131	24114	24097	24079	24062
172.5	24223	24213	24202	24192	24181	24171	24155	24140	24124	24108
175.0	24234	24223	24212	24200	24189	24178	24165	24151	24138	24124
177.5	24207	24196	24185	24173	24162	24151	24138	24125	24113	24100
180.0	24151	24151	24151	24151	24151	24151	24151	24151	24151	24151

**Vert. Horizontal Angles**

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	0	0	0	0	0
2.5	0	0	0	0	0
5.0	0	0	0	0	0
7.5	0	0	0	0	0
10.0	0	0	0	0	0
12.5	0	0	0	0	0
15.0	0	0	0	0	0
17.5	0	0	0	0	0
20.0	0	0	0	0	0
22.5	0	0	0	0	0
25.0	0	0	0	0	0
27.5	0	0	0	0	0
30.0	0	0	0	0	0
32.5	0	0	0	0	0
35.0	0	0	0	0	0
37.5	0	0	0	0	0
40.0	0	0	0	0	0
42.5	0	0	0	0	0
45.0	0	0	0	0	0
47.5	0	0	0	0	0
50.0	0	0	0	0	0
52.5	0	0	0	0	0
55.0	0	0	0	0	0
57.5	0	0	0	0	0
60.0	0	0	0	0	0
62.5	0	0	0	0	0
65.0	0	0	0	0	0
67.5	0	0	0	0	0
70.0	0	0	0	0	0
72.5	0	0	0	0	0
75.0	0	0	0	0	0
77.5	0	0	0	0	0
80.0	0	0	0	0	0
82.5	0	0	0	0	0
85.0	0	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0
92.5	391	359	327	295	263
95.0	825	772	719	666	613

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**CANDELA TABULATION - (Cont.)**

<b>97.5</b>	1411	1345	1278	1212	1145
<b>100.0</b>	2139	2080	2022	1963	1905
<b>102.5</b>	3049	3019	2989	2959	2929
<b>105.0</b>	4176	4165	4155	4144	4134
<b>107.5</b>	5475	5471	5468	5464	5460
<b>110.0</b>	6877	6875	6872	6870	6868
<b>112.5</b>	8345	8337	8330	8322	8315
<b>115.0</b>	9787	9776	9764	9753	9742
<b>117.5</b>	11175	11158	11142	11125	11109
<b>120.0</b>	12490	12476	12463	12449	12436
<b>122.5</b>	13711	13702	13693	13684	13675
<b>125.0</b>	14866	14844	14822	14801	14779
<b>127.5</b>	15906	15885	15864	15843	15822
<b>130.0</b>	16865	16843	16822	16800	16778
<b>132.5</b>	17782	17762	17741	17721	17701
<b>135.0</b>	18623	18603	18582	18562	18542
<b>137.5</b>	19392	19368	19344	19320	19296
<b>140.0</b>	20102	20077	20053	20028	20003
<b>142.5</b>	20756	20731	20706	20682	20657
<b>145.0</b>	21345	21321	21297	21273	21249
<b>147.5</b>	21869	21843	21818	21792	21767
<b>150.0</b>	22328	22304	22280	22256	22232
<b>152.5</b>	22719	22695	22671	22647	22623
<b>155.0</b>	23049	23026	23004	22981	22959
<b>157.5</b>	23319	23298	23277	23256	23235
<b>160.0</b>	23542	23522	23503	23483	23464
<b>162.5</b>	23721	23702	23683	23665	23646
<b>165.0</b>	23862	23843	23825	23806	23787
<b>167.5</b>	23970	23951	23932	23914	23895
<b>170.0</b>	24045	24028	24010	23993	23976
<b>172.5</b>	24093	24077	24061	24046	24030
<b>175.0</b>	24111	24097	24084	24070	24057
<b>177.5</b>	24087	24074	24062	24049	24036
<b>180.0</b>	24151	24151	24151	24151	24151

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ZNIA-2LEDSE-75L-CA-W-50-ID.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	6536.36	N.A.	8.50
90-120	15879.4	N.A.	20.70
90-130	29006.63	N.A.	37.80
90-150	56933.89	N.A.	74.20
90-180	76753.93	N.A.	100.00
110-180	70217.58	N.A.	91.50
0-180	76753.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	1388.37
100-110	5147.99
110-120	9343.05
120-130	13127.23
130-140	14484.79
140-150	13442.47
150-160	10712.51
160-170	6797.1
170-180	2310.43

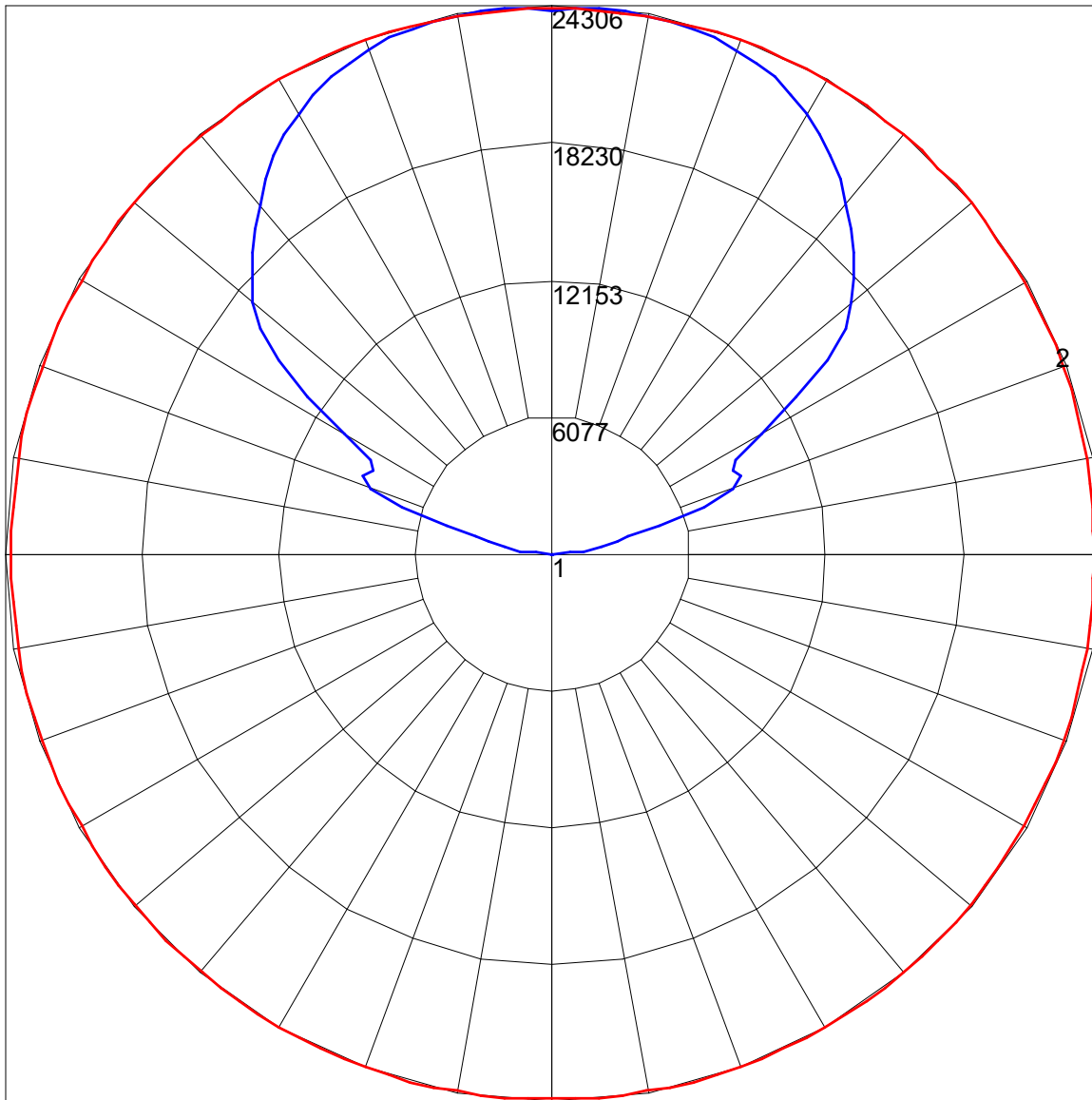
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ZNIA-2LEDSE-75L-CA-W-50-ID.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 24306 Located At Horizontal Angle = 67.5, Vertical Angle = 175  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)