



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDSE-55L-CA-W-40-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-55L-CA-W-40-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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	57551
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	428
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	197	221	245	269	293	318	342	366	390	414
95.0	459	499	539	579	619	658	698	738	778	818
97.5	858	908	958	1008	1058	1108	1158	1208	1258	1308
100.0	1429	1473	1516	1560	1604	1647	1691	1735	1778	1822
102.5	2196	2218	2241	2263	2286	2308	2331	2353	2376	2398
105.0	3100	3108	3116	3123	3131	3139	3147	3154	3162	3170
107.5	4094	4097	4100	4103	4106	4108	4111	4114	4117	4120
110.0	5149	5151	5153	5154	5156	5158	5160	5161	5163	5165
112.5	6235	6241	6246	6252	6257	6263	6268	6274	6279	6285
115.0	7305	7313	7322	7330	7339	7347	7356	7364	7373	7381
117.5	8330	8342	8355	8367	8379	8392	8404	8416	8429	8441
120.0	9324	9334	9344	9354	9364	9375	9385	9395	9405	9415
122.5	10253	10260	10267	10273	10280	10287	10294	10300	10307	10314
125.0	11081	11097	11114	11130	11146	11163	11179	11195	11212	11228
127.5	11864	11880	11895	11911	11927	11942	11958	11974	11989	12005
130.0	12581	12597	12613	12630	12646	12662	12678	12695	12711	12727
132.5	13272	13287	13302	13318	13333	13348	13363	13379	13394	13409

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CANDELA TABULATION - (Cont.)

135.0	13903	13918	13933	13949	13964	13979	13994	14010	14025	14040
137.5	14469	14487	14505	14523	14541	14558	14576	14594	14612	14630
140.0	14999	15017	15036	15054	15073	15091	15110	15128	15147	15165
142.5	15489	15507	15526	15544	15563	15581	15600	15618	15637	15655
145.0	15933	15951	15969	15987	16005	16022	16040	16058	16076	16094
147.5	16322	16341	16360	16379	16398	16417	16436	16455	16474	16493
150.0	16670	16688	16706	16724	16742	16759	16777	16795	16813	16831
152.5	16963	16981	16999	17017	17035	17052	17070	17088	17106	17124
155.0	17215	17232	17249	17266	17283	17299	17316	17333	17350	17367
157.5	17422	17438	17453	17469	17485	17500	17516	17532	17547	17563
160.0	17594	17609	17623	17638	17652	17667	17681	17696	17710	17725
162.5	17730	17744	17758	17772	17786	17800	17814	17828	17842	17856
165.0	17836	17850	17864	17878	17892	17906	17920	17934	17948	17962
167.5	17917	17931	17945	17959	17973	17987	18001	18015	18029	18043
170.0	17977	17990	18003	18016	18029	18042	18055	18068	18081	18094
172.5	18018	18030	18042	18053	18065	18077	18089	18100	18112	18124
175.0	18038	18048	18058	18068	18078	18089	18099	18109	18119	18129
177.5	18023	18033	18042	18052	18061	18071	18080	18090	18099	18109
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	428	442	456	470	484	498	512	526	540	542
95.0	835	852	868	885	902	919	935	952	969	978
97.5	1329	1349	1370	1391	1411	1432	1453	1473	1494	1513
100.0	1865	1907	1950	1993	2035	2078	2121	2163	2206	2203
102.5	2499	2600	2701	2802	2903	3004	3105	3206	3307	3228
105.0	3287	3405	3522	3639	3757	3874	3991	4109	4226	4165
107.5	4179	4239	4298	4358	4417	4477	4536	4596	4655	4722
110.0	5142	5119	5096	5073	5050	5027	5004	4981	4958	5122
112.5	6202	6119	6036	5953	5870	5787	5704	5621	5538	5681
115.0	7298	7215	7132	7049	6966	6883	6800	6717	6634	6630
117.5	8397	8353	8310	8266	8222	8178	8135	8091	8047	7912
120.0	9406	9397	9388	9379	9371	9362	9353	9344	9335	9188
122.5	10324	10333	10343	10352	10362	10371	10381	10390	10400	10318
125.0	11234	11239	11245	11250	11256	11261	11267	11272	11278	11268
127.5	12009	12013	12017	12021	12024	12028	12032	12036	12040	12068
130.0	12730	12734	12737	12740	12744	12747	12750	12754	12757	12787
132.5	13414	13419	13424	13429	13434	13439	13444	13449	13454	13471
135.0	14045	14050	14055	14060	14065	14070	14075	14080	14085	14096
137.5	14635	14640	14645	14650	14656	14661	14666	14671	14676	14679
140.0	15174	15183	15192	15201	15210	15219	15228	15237	15246	15242
142.5	15666	15676	15687	15698	15708	15719	15730	15740	15751	15747
145.0	16105	16116	16128	16139	16150	16161	16173	16184	16195	16193
147.5	16504	16515	16527	16538	16549	16560	16572	16583	16594	16593
150.0	16843	16855	16866	16878	16890	16902	16913	16925	16937	16937
152.5	17137	17151	17164	17178	17191	17205	17218	17232	17245	17243
155.0	17382	17397	17412	17427	17443	17458	17473	17488	17503	17501
157.5	17579	17595	17610	17626	17642	17658	17673	17689	17705	17704
160.0	17741	17757	17774	17790	17806	17822	17839	17855	17871	17871
162.5	17871	17886	17902	17917	17932	17947	17963	17978	17993	17995
165.0	17974	17987	17999	18011	18024	18036	18048	18061	18073	18076
167.5	18053	18063	18073	18083	18094	18104	18114	18124	18134	18138
170.0	18103	18112	18121	18130	18138	18147	18156	18165	18174	18177
172.5	18132	18140	18148	18156	18163	18171	18179	18187	18195	18198
175.0	18137	18146	18154	18163	18171	18180	18188	18197	18205	18207
177.5	18117	18126	18134	18142	18151	18159	18167	18176	18184	18186
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	544	547	549	551	553	556	558	560	563	566
95.0	987	996	1005	1014	1023	1032	1041	1050	1049	1049
97.5	1531	1550	1568	1587	1605	1624	1642	1661	1672	1682
100.0	2200	2198	2195	2192	2189	2187	2184	2181	2195	2209
102.5	3150	3071	2993	2914	2836	2757	2679	2600	2603	2607
105.0	4104	4042	3981	3920	3859	3797	3736	3675	3629	3583
107.5	4788	4855	4922	4988	5055	5122	5188	5255	5198	5141
110.0	5286	5449	5613	5777	5941	6104	6268	6432	6418	6404
112.5	5824	5967	6110	6253	6396	6539	6682	6825	6889	6953
115.0	6626	6622	6618	6614	6610	6606	6602	6598	6696	6794
117.5	7778	7643	7509	7374	7240	7105	6971	6836	6865	6893
120.0	9041	8894	8747	8600	8453	8306	8159	8012	7955	7898
122.5	10235	10153	10070	9988	9905	9823	9740	9658	9577	9496
125.0	11259	11249	11240	11230	11221	11211	11202	11192	11137	11081
127.5	12096	12124	12152	12181	12209	12237	12265	12293	12280	12266
130.0	12817	12846	12876	12906	12936	12965	12995	13025	13033	13042
132.5	13489	13506	13524	13541	13559	13576	13594	13611	13617	13622
135.0	14107	14119	14130	14141	14152	14164	14175	14186	14188	14189
137.5	14682	14684	14687	14690	14693	14695	14698	14701	14698	14694
140.0	15237	15233	15228	15224	15219	15215	15210	15206	15196	15187
142.5	15743	15739	15735	15732	15728	15724	15720	15716	15700	15684
145.0	16192	16190	16188	16187	16185	16183	16182	16180	16165	16150
147.5	16593	16592	16592	16591	16591	16590	16590	16589	16576	16562
150.0	16937	16937	16937	16937	16937	16937	16937	16937	16924	16911
152.5	17242	17240	17238	17237	17235	17233	17232	17230	17219	17208
155.0	17500	17498	17496	17495	17493	17491	17490	17488	17477	17466
157.5	17704	17703	17703	17702	17702	17701	17701	17700	17689	17679
160.0	17871	17871	17871	17871	17871	17871	17871	17871	17862	17852
162.5	17996	17998	18000	18001	18003	18005	18006	18008	17998	17989
165.0	18080	18083	18087	18090	18094	18097	18101	18104	18096	18088
167.5	18142	18146	18150	18153	18157	18161	18165	18169	18161	18152

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CANDELA TABULATION - (Cont.)

170.0	18180	18183	18186	18188	18191	18194	18197	18200	18192	18183
172.5	18201	18203	18206	18209	18212	18214	18217	18220	18212	18204
175.0	18209	18212	18214	18216	18218	18221	18223	18225	18217	18209
177.5	18188	18189	18191	18193	18195	18196	18198	18200	18192	18184
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

Vert. Angles	Horizontal Angles									
	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</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	569	572	574	577	580	583	586	583	580	577
95.0	1048	1048	1047	1047	1046	1046	1045	1046	1046	1047
97.5	1693	1704	1714	1725	1736	1746	1757	1746	1736	1725
100.0	2223	2237	2251	2265	2279	2293	2307	2293	2279	2265
102.5	2610	2613	2617	2620	2623	2627	2630	2627	2623	2620
105.0	3537	3491	3445	3399	3353	3307	3261	3307	3353	3399
107.5	5083	5026	4969	4912	4854	4797	4740	4797	4854	4912
110.0	6390	6376	6361	6347	6333	6319	6305	6319	6333	6347
112.5	7017	7081	7145	7209	7273	7337	7401	7337	7273	7209
115.0	6893	6991	7089	7187	7286	7384	7482	7384	7286	7187

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CANDELA TABULATION - (Cont.)

117.5	6922	6950	6979	7007	7036	7064	7093	7064	7036	7007
120.0	7840	7783	7726	7669	7611	7554	7497	7554	7611	7669
122.5	9416	9335	9254	9173	9093	9012	8931	9012	9093	9173
125.0	11026	10970	10915	10859	10804	10748	10693	10748	10804	10859
127.5	12253	12239	12226	12212	12199	12185	12172	12185	12199	12212
130.0	13050	13059	13067	13076	13084	13093	13101	13093	13084	13076
132.5	13628	13633	13639	13644	13650	13655	13661	13655	13650	13644
135.0	14191	14193	14194	14196	14198	14199	14201	14199	14198	14196
137.5	14691	14688	14684	14681	14678	14674	14671	14674	14678	14681
140.0	15177	15168	15158	15149	15139	15130	15120	15130	15139	15149
142.5	15669	15653	15637	15621	15606	15590	15574	15590	15606	15621
145.0	16135	16120	16104	16089	16074	16059	16044	16059	16074	16089
147.5	16549	16535	16522	16508	16495	16481	16468	16481	16495	16508
150.0	16898	16885	16873	16860	16847	16834	16821	16834	16847	16860
152.5	17196	17185	17174	17163	17151	17140	17129	17140	17151	17163
155.0	17454	17443	17432	17421	17409	17398	17387	17398	17409	17421
157.5	17668	17657	17647	17636	17625	17615	17604	17615	17625	17636
160.0	17843	17833	17824	17814	17805	17795	17786	17795	17805	17814
162.5	17979	17970	17960	17951	17941	17932	17922	17932	17941	17951
165.0	18080	18072	18065	18057	18049	18041	18033	18041	18049	18057
167.5	18144	18136	18127	18119	18111	18102	18094	18102	18111	18119
170.0	18175	18166	18158	18149	18141	18132	18124	18132	18141	18149
172.5	18196	18188	18181	18173	18165	18157	18149	18157	18165	18173
175.0	18201	18193	18186	18178	18170	18162	18154	18162	18170	18178
177.5	18176	18168	18161	18153	18145	18137	18129	18137	18145	18153
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

Vert. Horizontal Angles
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	574	572	569	566	563	560	558	556	553	551
95.0	1047	1048	1048	1049	1049	1050	1041	1032	1023	1014
97.5	1714	1704	1693	1682	1672	1661	1642	1624	1605	1587
100.0	2251	2237	2223	2209	2195	2181	2184	2187	2189	2192
102.5	2617	2613	2610	2607	2603	2600	2679	2757	2836	2914
105.0	3445	3491	3537	3583	3629	3675	3736	3797	3859	3920
107.5	4969	5026	5083	5141	5198	5255	5188	5122	5055	4988
110.0	6361	6376	6390	6404	6418	6432	6268	6104	5941	5777
112.5	7145	7081	7017	6953	6889	6825	6682	6539	6396	6253
115.0	7089	6991	6893	6794	6696	6598	6602	6606	6610	6614
117.5	6979	6950	6922	6893	6865	6836	6971	7105	7240	7374
120.0	7726	7783	7840	7898	7955	8012	8159	8306	8453	8600
122.5	9254	9335	9416	9496	9577	9658	9740	9823	9905	9988
125.0	10915	10970	11026	11081	11137	11192	11202	11211	11221	11230
127.5	12226	12239	12253	12266	12280	12293	12265	12237	12209	12181
130.0	13067	13059	13050	13042	13033	13025	12995	12965	12936	12906
132.5	13639	13633	13628	13622	13617	13611	13594	13576	13559	13541
135.0	14194	14193	14191	14189	14188	14186	14175	14164	14152	14141
137.5	14684	14688	14691	14694	14698	14701	14698	14695	14693	14690
140.0	15158	15168	15177	15187	15196	15206	15210	15215	15219	15224
142.5	15637	15653	15669	15684	15700	15716	15720	15724	15728	15732
145.0	16104	16120	16135	16150	16165	16180	16182	16183	16185	16187
147.5	16522	16535	16549	16562	16576	16589	16590	16590	16591	16591
150.0	16873	16885	16898	16911	16924	16937	16937	16937	16937	16937
152.5	17174	17185	17196	17208	17219	17230	17232	17233	17235	17237
155.0	17432	17443	17454	17466	17477	17488	17490	17491	17493	17495
157.5	17647	17657	17668	17679	17689	17700	17701	17701	17702	17702
160.0	17824	17833	17843	17852	17862	17871	17871	17871	17871	17871
162.5	17960	17970	17979	17989	17998	18008	18006	18005	18003	18001
165.0	18065	18072	18080	18088	18096	18104	18101	18097	18094	18090
167.5	18127	18136	18144	18152	18161	18169	18165	18161	18157	18153
170.0	18158	18166	18175	18183	18192	18200	18197	18194	18191	18188
172.5	18181	18188	18196	18204	18212	18220	18217	18214	18212	18209
175.0	18186	18193	18201	18209	18217	18225	18223	18221	18218	18216
177.5	18161	18168	18176	18184	18192	18200	18198	18196	18195	18193
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	549	547	544	542	540	526	512	498	484	470
95.0	1005	996	987	978	969	952	935	919	902	885
97.5	1568	1550	1531	1513	1494	1473	1453	1432	1411	1391
100.0	2195	2198	2200	2203	2206	2163	2121	2078	2035	1993
102.5	2993	3071	3150	3228	3307	3206	3105	3004	2903	2802
105.0	3981	4042	4104	4165	4226	4109	3991	3874	3757	3639
107.5	4922	4855	4788	4722	4655	4596	4536	4477	4417	4358
110.0	5613	5449	5286	5122	4958	4981	5004	5027	5050	5073
112.5	6110	5967	5824	5681	5538	5621	5704	5787	5870	5953
115.0	6618	6622	6626	6630	6634	6717	6800	6883	6966	7049
117.5	7509	7643	7778	7912	8047	8091	8135	8178	8222	8266
120.0	8747	8894	9041	9188	9335	9344	9353	9362	9371	9379
122.5	10070	10153	10235	10318	10400	10390	10381	10371	10362	10352
125.0	11240	11249	11259	11268	11278	11272	11267	11261	11256	11250
127.5	12152	12124	12096	12068	12040	12036	12032	12028	12024	12021
130.0	12876	12846	12817	12787	12757	12754	12750	12747	12744	12740
132.5	13524	13506	13489	13471	13454	13449	13444	13439	13434	13429
135.0	14130	14119	14107	14096	14085	14080	14075	14070	14065	14060
137.5	14687	14684	14682	14679	14676	14671	14666	14661	14656	14650
140.0	15228	15233	15237	15242	15246	15237	15228	15219	15210	15201
142.5	15735	15739	15743	15747	15751	15740	15730	15719	15708	15698
145.0	16188	16190	16192	16193	16195	16184	16173	16161	16150	16139
147.5	16592	16592	16593	16593	16594	16583	16572	16560	16549	16538
150.0	16937	16937	16937	16937	16937	16925	16913	16902	16890	16878

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CANDELA TABULATION - (Cont.)

152.5	17238	17240	17242	17243	17245	17232	17218	17205	17191	17178
155.0	17496	17498	17500	17501	17503	17488	17473	17458	17443	17427
157.5	17703	17703	17704	17704	17705	17689	17673	17658	17642	17626
160.0	17871	17871	17871	17871	17871	17855	17839	17822	17806	17790
162.5	18000	17998	17996	17995	17993	17978	17963	17947	17932	17917
165.0	18087	18083	18080	18076	18073	18061	18048	18036	18024	18011
167.5	18150	18146	18142	18138	18134	18124	18114	18104	18094	18083
170.0	18186	18183	18180	18177	18174	18165	18156	18147	18138	18130
172.5	18206	18203	18201	18198	18195	18187	18179	18171	18163	18156
175.0	18214	18212	18209	18207	18205	18197	18188	18180	18171	18163
177.5	18191	18189	18188	18186	18184	18176	18167	18159	18151	18142
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</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	456	442	428	414	390	366	342	318	293	269
95.0	868	852	835	818	778	738	698	658	619	579
97.5	1370	1349	1329	1308	1258	1208	1158	1108	1058	1008

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CANDELA TABULATION - (Cont.)

100.0	1950	1907	1865	1822	1778	1735	1691	1647	1604	1560
102.5	2701	2600	2499	2398	2376	2353	2331	2308	2286	2263
105.0	3522	3405	3287	3170	3162	3154	3147	3139	3131	3123
107.5	4298	4239	4179	4120	4117	4114	4111	4108	4106	4103
110.0	5096	5119	5142	5165	5163	5161	5160	5158	5156	5154
112.5	6036	6119	6202	6285	6279	6274	6268	6263	6257	6252
115.0	7132	7215	7298	7381	7373	7364	7356	7347	7339	7330
117.5	8310	8353	8397	8441	8429	8416	8404	8392	8379	8367
120.0	9388	9397	9406	9415	9405	9395	9385	9375	9364	9354
122.5	10343	10333	10324	10314	10307	10300	10294	10287	10280	10273
125.0	11245	11239	11234	11228	11212	11195	11179	11163	11146	11130
127.5	12017	12013	12009	12005	11989	11974	11958	11942	11927	11911
130.0	12737	12734	12730	12727	12711	12695	12678	12662	12646	12630
132.5	13424	13419	13414	13409	13394	13379	13363	13348	13333	13318
135.0	14055	14050	14045	14040	14025	14010	13994	13979	13964	13949
137.5	14645	14640	14635	14630	14612	14594	14576	14558	14541	14523
140.0	15192	15183	15174	15165	15147	15128	15110	15091	15073	15054
142.5	15687	15676	15666	15655	15637	15618	15600	15581	15563	15544
145.0	16128	16116	16105	16094	16076	16058	16040	16022	16005	15987
147.5	16527	16515	16504	16493	16474	16455	16436	16417	16398	16379
150.0	16866	16855	16843	16831	16813	16795	16777	16759	16742	16724
152.5	17164	17151	17137	17124	17106	17088	17070	17052	17035	17017
155.0	17412	17397	17382	17367	17350	17333	17316	17299	17283	17266
157.5	17610	17595	17579	17563	17547	17532	17516	17500	17485	17469
160.0	17774	17757	17741	17725	17710	17696	17681	17667	17652	17638
162.5	17902	17886	17871	17856	17842	17828	17814	17800	17786	17772
165.0	17999	17987	17974	17962	17948	17934	17920	17906	17892	17878
167.5	18073	18063	18053	18043	18029	18015	18001	17987	17973	17959
170.0	18121	18112	18103	18094	18081	18068	18055	18042	18029	18016
172.5	18148	18140	18132	18124	18112	18100	18089	18077	18065	18053
175.0	18154	18146	18137	18129	18119	18109	18099	18089	18078	18068
177.5	18134	18126	18117	18109	18099	18090	18080	18071	18061	18052
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	245	221	197	221	245	269	293	318	342	366
95.0	539	499	459	499	539	579	619	658	698	738
97.5	958	908	858	908	958	1008	1058	1108	1158	1208
100.0	1516	1473	1429	1473	1516	1560	1604	1647	1691	1735
102.5	2241	2218	2196	2218	2241	2263	2286	2308	2331	2353
105.0	3116	3108	3100	3108	3116	3123	3131	3139	3147	3154
107.5	4100	4097	4094	4097	4100	4103	4106	4108	4111	4114
110.0	5153	5151	5149	5151	5153	5154	5156	5158	5160	5161
112.5	6246	6241	6235	6241	6246	6252	6257	6263	6268	6274
115.0	7322	7313	7305	7313	7322	7330	7339	7347	7356	7364
117.5	8355	8342	8330	8342	8355	8367	8379	8392	8404	8416
120.0	9344	9334	9324	9334	9344	9354	9364	9375	9385	9395
122.5	10267	10260	10253	10260	10267	10273	10280	10287	10294	10300
125.0	11114	11097	11081	11097	11114	11130	11146	11163	11179	11195
127.5	11895	11880	11864	11880	11895	11911	11927	11942	11958	11974
130.0	12613	12597	12581	12597	12613	12630	12646	12662	12678	12695
132.5	13302	13287	13272	13287	13302	13318	13333	13348	13363	13379
135.0	13933	13918	13903	13918	13933	13949	13964	13979	13994	14010
137.5	14505	14487	14469	14487	14505	14523	14541	14558	14576	14594
140.0	15036	15017	14999	15017	15036	15054	15073	15091	15110	15128
142.5	15526	15507	15489	15507	15526	15544	15563	15581	15600	15618
145.0	15969	15951	15933	15951	15969	15987	16005	16022	16040	16058
147.5	16360	16341	16322	16341	16360	16379	16398	16417	16436	16455
150.0	16706	16688	16670	16688	16706	16724	16742	16759	16777	16795
152.5	16999	16981	16963	16981	16999	17017	17035	17052	17070	17088
155.0	17249	17232	17215	17232	17249	17266	17283	17299	17316	17333
157.5	17453	17438	17422	17438	17453	17469	17485	17500	17516	17532
160.0	17623	17609	17594	17609	17623	17638	17652	17667	17681	17696
162.5	17758	17744	17730	17744	17758	17772	17786	17800	17814	17828
165.0	17864	17850	17836	17850	17864	17878	17892	17906	17920	17934
167.5	17945	17931	17917	17931	17945	17959	17973	17987	18001	18015
170.0	18003	17990	17977	17990	18003	18016	18029	18042	18055	18068
172.5	18042	18030	18018	18030	18042	18053	18065	18077	18089	18100
175.0	18058	18048	18038	18048	18058	18068	18078	18089	18099	18109
177.5	18042	18033	18023	18033	18042	18052	18061	18071	18080	18090
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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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	390	414	428	442	456	470	484	498	512	526
95.0	778	818	835	852	868	885	902	919	935	952
97.5	1258	1308	1329	1349	1370	1391	1411	1432	1453	1473
100.0	1778	1822	1865	1907	1950	1993	2035	2078	2121	2163
102.5	2376	2398	2499	2600	2701	2802	2903	3004	3105	3206
105.0	3162	3170	3287	3405	3522	3639	3757	3874	3991	4109
107.5	4117	4120	4179	4239	4298	4358	4417	4477	4536	4596
110.0	5163	5165	5142	5119	5096	5073	5050	5027	5004	4981
112.5	6279	6285	6202	6119	6036	5953	5870	5787	5704	5621
115.0	7373	7381	7298	7215	7132	7049	6966	6883	6800	6717
117.5	8429	8441	8397	8353	8310	8266	8222	8178	8135	8091
120.0	9405	9415	9406	9397	9388	9379	9371	9362	9353	9344
122.5	10307	10314	10324	10333	10343	10352	10362	10371	10381	10390
125.0	11212	11228	11234	11239	11245	11250	11256	11261	11267	11272
127.5	11989	12005	12009	12013	12017	12021	12024	12028	12032	12036
130.0	12711	12727	12730	12734	12737	12740	12744	12747	12750	12754

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CANDELA TABULATION - (Cont.)

132.5	13394	13409	13414	13419	13424	13429	13434	13439	13444	13449
135.0	14025	14040	14045	14050	14055	14060	14065	14070	14075	14080
137.5	14612	14630	14635	14640	14645	14650	14656	14661	14666	14671
140.0	15147	15165	15174	15183	15192	15201	15210	15219	15228	15237
142.5	15637	15655	15666	15676	15687	15698	15708	15719	15730	15740
145.0	16076	16094	16105	16116	16128	16139	16150	16161	16173	16184
147.5	16474	16493	16504	16515	16527	16538	16549	16560	16572	16583
150.0	16813	16831	16843	16855	16866	16878	16890	16902	16913	16925
152.5	17106	17124	17137	17151	17164	17178	17191	17205	17218	17232
155.0	17350	17367	17382	17397	17412	17427	17443	17458	17473	17488
157.5	17547	17563	17579	17595	17610	17626	17642	17658	17673	17689
160.0	17710	17725	17741	17757	17774	17790	17806	17822	17839	17855
162.5	17842	17856	17871	17886	17902	17917	17932	17947	17963	17978
165.0	17948	17962	17974	17987	17999	18011	18024	18036	18048	18061
167.5	18029	18043	18053	18063	18073	18083	18094	18104	18114	18124
170.0	18081	18094	18103	18112	18121	18130	18138	18147	18156	18165
172.5	18112	18124	18132	18140	18148	18156	18163	18171	18179	18187
175.0	18119	18129	18137	18146	18154	18163	18171	18180	18188	18197
177.5	18099	18109	18117	18126	18134	18142	18151	18159	18167	18176
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	540	542	544	547	549	551	553	556	558	560
95.0	969	978	987	996	1005	1014	1023	1032	1041	1050
97.5	1494	1513	1531	1550	1568	1587	1605	1624	1642	1661
100.0	2206	2203	2200	2198	2195	2192	2189	2187	2184	2181
102.5	3307	3228	3150	3071	2993	2914	2836	2757	2679	2600
105.0	4226	4165	4104	4042	3981	3920	3859	3797	3736	3675
107.5	4655	4722	4788	4855	4922	4988	5055	5122	5188	5255
110.0	4958	5122	5286	5449	5613	5777	5941	6104	6268	6432
112.5	5538	5681	5824	5967	6110	6253	6396	6539	6682	6825
115.0	6634	6630	6626	6622	6618	6614	6610	6606	6602	6598
117.5	8047	7912	7778	7643	7509	7374	7240	7105	6971	6836
120.0	9335	9188	9041	8894	8747	8600	8453	8306	8159	8012
122.5	10400	10318	10235	10153	10070	9988	9905	9823	9740	9658
125.0	11278	11268	11259	11249	11240	11230	11221	11211	11202	11192
127.5	12040	12068	12096	12124	12152	12181	12209	12237	12265	12293
130.0	12757	12787	12817	12846	12876	12906	12936	12965	12995	13025
132.5	13454	13471	13489	13506	13524	13541	13559	13576	13594	13611
135.0	14085	14096	14107	14119	14130	14141	14152	14164	14175	14186
137.5	14676	14679	14682	14684	14687	14690	14693	14695	14698	14701
140.0	15246	15242	15237	15233	15228	15224	15219	15215	15210	15206
142.5	15751	15747	15743	15739	15735	15732	15728	15724	15720	15716
145.0	16195	16193	16192	16190	16188	16187	16185	16183	16182	16180
147.5	16594	16593	16593	16592	16592	16591	16591	16590	16590	16589
150.0	16937	16937	16937	16937	16937	16937	16937	16937	16937	16937
152.5	17245	17243	17242	17240	17238	17237	17235	17233	17232	17230
155.0	17503	17501	17500	17498	17496	17495	17493	17491	17490	17488
157.5	17705	17704	17704	17703	17703	17702	17702	17701	17701	17700
160.0	17871	17871	17871	17871	17871	17871	17871	17871	17871	17871
162.5	17993	17995	17996	17998	18000	18001	18003	18005	18006	18008
165.0	18073	18076	18080	18083	18087	18090	18094	18097	18101	18104
167.5	18134	18138	18142	18146	18150	18153	18157	18161	18165	18169
170.0	18174	18177	18180	18183	18186	18188	18191	18194	18197	18200
172.5	18195	18198	18201	18203	18206	18209	18212	18214	18217	18220
175.0	18205	18207	18209	18212	18214	18216	18218	18221	18223	18225
177.5	18184	18186	18188	18189	18191	18193	18195	18196	18198	18200
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	563	566	569	572	574	577	580	583	586	583
95.0	1049	1049	1048	1048	1047	1047	1046	1046	1045	1046
97.5	1672	1682	1693	1704	1714	1725	1736	1746	1757	1746
100.0	2195	2209	2223	2237	2251	2265	2279	2293	2307	2293
102.5	2603	2607	2610	2613	2617	2620	2623	2627	2630	2627
105.0	3629	3583	3537	3491	3445	3399	3353	3307	3261	3307
107.5	5198	5141	5083	5026	4969	4912	4854	4797	4740	4797
110.0	6418	6404	6390	6376	6361	6347	6333	6319	6305	6319
112.5	6889	6953	7017	7081	7145	7209	7273	7337	7401	7337
115.0	6696	6794	6893	6991	7089	7187	7286	7384	7482	7384
117.5	6865	6893	6922	6950	6979	7007	7036	7064	7093	7064
120.0	7955	7898	7840	7783	7726	7669	7611	7554	7497	7554
122.5	9577	9496	9416	9335	9254	9173	9093	9012	8931	9012
125.0	11137	11081	11026	10970	10915	10859	10804	10748	10693	10748
127.5	12280	12266	12253	12239	12226	12212	12199	12185	12172	12185
130.0	13033	13042	13050	13059	13067	13076	13084	13093	13101	13093
132.5	13617	13622	13628	13633	13639	13644	13650	13655	13661	13655
135.0	14188	14189	14191	14193	14194	14196	14198	14199	14201	14199
137.5	14698	14694	14691	14688	14684	14681	14678	14674	14671	14674
140.0	15196	15187	15177	15168	15158	15149	15139	15130	15120	15130
142.5	15700	15684	15669	15653	15637	15621	15606	15590	15574	15590
145.0	16165	16150	16135	16120	16104	16089	16074	16059	16044	16059
147.5	16576	16562	16549	16535	16522	16508	16495	16481	16468	16481
150.0	16924	16911	16898	16885	16873	16860	16847	16834	16821	16834
152.5	17219	17208	17196	17185	17174	17163	17151	17140	17129	17140
155.0	17477	17466	17454	17443	17432	17421	17409	17398	17387	17398
157.5	17689	17679	17668	17657	17647	17636	17625	17615	17604	17615
160.0	17862	17852	17843	17833	17824	17814	17805	17795	17786	17795
162.5	17998	17989	17979	17970	17960	17951	17941	17932	17922	17932
165.0	18096	18088	18080	18072	18065	18057	18049	18041	18033	18041

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CANDELA TABULATION - (Cont.)

167.5	18161	18152	18144	18136	18127	18119	18111	18102	18094	18102
170.0	18192	18183	18175	18166	18158	18149	18141	18132	18124	18132
172.5	18212	18204	18196	18188	18181	18173	18165	18157	18149	18157
175.0	18217	18209	18201	18193	18186	18178	18170	18162	18154	18162
177.5	18192	18184	18176	18168	18161	18153	18145	18137	18129	18137
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

Vert. Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</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	580	577	574	572	569	566	563	560	558	556
95.0	1046	1047	1047	1048	1048	1049	1049	1050	1041	1032
97.5	1736	1725	1714	1704	1693	1682	1672	1661	1642	1624
100.0	2279	2265	2251	2237	2223	2209	2195	2181	2184	2187
102.5	2623	2620	2617	2613	2610	2607	2603	2600	2679	2757
105.0	3353	3399	3445	3491	3537	3583	3629	3675	3736	3797
107.5	4854	4912	4969	5026	5083	5141	5198	5255	5188	5122
110.0	6333	6347	6361	6376	6390	6404	6418	6432	6268	6104
112.5	7273	7209	7145	7081	7017	6953	6889	6825	6682	6539

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CANDELA TABULATION - (Cont.)

115.0	7286	7187	7089	6991	6893	6794	6696	6598	6602	6606
117.5	7036	7007	6979	6950	6922	6893	6865	6836	6971	7105
120.0	7611	7669	7726	7783	7840	7898	7955	8012	8159	8306
122.5	9093	9173	9254	9335	9416	9496	9577	9658	9740	9823
125.0	10804	10859	10915	10970	11026	11081	11137	11192	11202	11211
127.5	12199	12212	12226	12239	12253	12266	12280	12293	12265	12237
130.0	13084	13076	13067	13059	13050	13042	13033	13025	12995	12965
132.5	13650	13644	13639	13633	13628	13622	13617	13611	13594	13576
135.0	14198	14196	14194	14193	14191	14189	14188	14186	14175	14164
137.5	14678	14681	14684	14688	14691	14694	14698	14701	14698	14695
140.0	15139	15149	15158	15168	15177	15187	15196	15206	15210	15215
142.5	15606	15621	15637	15653	15669	15684	15700	15716	15720	15724
145.0	16074	16089	16104	16120	16135	16150	16165	16180	16182	16183
147.5	16495	16508	16522	16535	16549	16562	16576	16589	16590	16590
150.0	16847	16860	16873	16885	16898	16911	16924	16937	16937	16937
152.5	17151	17163	17174	17185	17196	17208	17219	17230	17232	17233
155.0	17409	17421	17432	17443	17454	17466	17477	17488	17490	17491
157.5	17625	17636	17647	17657	17668	17679	17689	17700	17701	17701
160.0	17805	17814	17824	17833	17843	17852	17862	17871	17871	17871
162.5	17941	17951	17960	17970	17979	17989	17998	18008	18006	18005
165.0	18049	18057	18065	18072	18080	18088	18096	18104	18101	18097
167.5	18111	18119	18127	18136	18144	18152	18161	18169	18165	18161
170.0	18141	18149	18158	18166	18175	18183	18192	18200	18197	18194
172.5	18165	18173	18181	18188	18196	18204	18212	18220	18217	18214
175.0	18170	18178	18186	18193	18201	18209	18217	18225	18223	18221
177.5	18145	18153	18161	18168	18176	18184	18192	18200	18198	18196
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	553	551	549	547	544	542	540	526	512	498
95.0	1023	1014	1005	996	987	978	969	952	935	919
97.5	1605	1587	1568	1550	1531	1513	1494	1473	1453	1432
100.0	2189	2192	2195	2198	2200	2203	2206	2163	2121	2078
102.5	2836	2914	2993	3071	3150	3228	3307	3206	3105	3004
105.0	3859	3920	3981	4042	4104	4165	4226	4109	3991	3874
107.5	5055	4988	4922	4855	4788	4722	4655	4596	4536	4477
110.0	5941	5777	5613	5449	5286	5122	4958	4981	5004	5027
112.5	6396	6253	6110	5967	5824	5681	5538	5621	5704	5787
115.0	6610	6614	6618	6622	6626	6630	6634	6717	6800	6883
117.5	7240	7374	7509	7643	7778	7912	8047	8091	8135	8178
120.0	8453	8600	8747	8894	9041	9188	9335	9344	9353	9362
122.5	9905	9988	10070	10153	10235	10318	10400	10390	10381	10371
125.0	11221	11230	11240	11249	11259	11268	11278	11272	11267	11261
127.5	12209	12181	12152	12124	12096	12068	12040	12036	12032	12028
130.0	12936	12906	12876	12846	12817	12787	12757	12754	12750	12747
132.5	13559	13541	13524	13506	13489	13471	13454	13449	13444	13439
135.0	14152	14141	14130	14119	14107	14096	14085	14080	14075	14070
137.5	14693	14690	14687	14684	14682	14679	14676	14671	14666	14661
140.0	15219	15224	15228	15233	15237	15242	15246	15237	15228	15219
142.5	15728	15732	15735	15739	15743	15747	15751	15740	15730	15719
145.0	16185	16187	16188	16190	16192	16193	16195	16184	16173	16161
147.5	16591	16591	16592	16592	16593	16593	16594	16583	16572	16560
150.0	16937	16937	16937	16937	16937	16937	16937	16925	16913	16902
152.5	17235	17237	17238	17240	17242	17243	17245	17232	17218	17205
155.0	17493	17495	17496	17498	17500	17501	17503	17488	17473	17458
157.5	17702	17702	17703	17703	17704	17704	17705	17689	17673	17658
160.0	17871	17871	17871	17871	17871	17871	17871	17855	17839	17822
162.5	18003	18001	18000	17998	17996	17995	17993	17978	17963	17947
165.0	18094	18090	18087	18083	18080	18076	18073	18061	18048	18036
167.5	18157	18153	18150	18146	18142	18138	18134	18124	18114	18104
170.0	18191	18188	18186	18183	18180	18177	18174	18165	18156	18147
172.5	18212	18209	18206	18203	18201	18198	18195	18187	18179	18171
175.0	18218	18216	18214	18212	18209	18207	18205	18197	18188	18180
177.5	18195	18193	18191	18189	18188	18186	18184	18176	18167	18159
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	484	470	456	442	428	414	390	366	342	318
95.0	902	885	868	852	835	818	778	738	698	658
97.5	1411	1391	1370	1349	1329	1308	1258	1208	1158	1108
100.0	2035	1993	1950	1907	1865	1822	1778	1735	1691	1647
102.5	2903	2802	2701	2600	2499	2398	2376	2353	2331	2308
105.0	3757	3639	3522	3405	3287	3170	3162	3154	3147	3139
107.5	4417	4358	4298	4239	4179	4120	4117	4114	4111	4108
110.0	5050	5073	5096	5119	5142	5165	5163	5161	5160	5158
112.5	5870	5953	6036	6119	6202	6285	6279	6274	6268	6263
115.0	6966	7049	7132	7215	7298	7381	7373	7364	7356	7347
117.5	8222	8266	8310	8353	8397	8441	8429	8416	8404	8392
120.0	9371	9379	9388	9397	9406	9415	9405	9395	9385	9375
122.5	10362	10352	10343	10333	10324	10314	10307	10300	10294	10287
125.0	11256	11250	11245	11239	11234	11228	11212	11195	11179	11163
127.5	12024	12021	12017	12013	12009	12005	11989	11974	11958	11942
130.0	12744	12740	12737	12734	12730	12727	12711	12695	12678	12662
132.5	13434	13429	13424	13419	13414	13409	13394	13379	13363	13348
135.0	14065	14060	14055	14050	14045	14040	14025	14010	13994	13979
137.5	14656	14650	14645	14640	14635	14630	14612	14594	14576	14558
140.0	15210	15201	15192	15183	15174	15165	15147	15128	15110	15091
142.5	15708	15698	15687	15676	15666	15655	15637	15618	15600	15581
145.0	16150	16139	16128	16116	16105	16094	16076	16058	16040	16022
147.5	16549	16538	16527	16515	16504	16493	16474	16455	16436	16417

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDSE-55L-CA-W-40-ID.IES

CANDELA TABULATION - (Cont.)

150.0	16890	16878	16866	16855	16843	16831	16813	16795	16777	16759
152.5	17191	17178	17164	17151	17137	17124	17106	17088	17070	17052
155.0	17443	17427	17412	17397	17382	17367	17350	17333	17316	17299
157.5	17642	17626	17610	17595	17579	17563	17547	17532	17516	17500
160.0	17806	17790	17774	17757	17741	17725	17710	17696	17681	17667
162.5	17932	17917	17902	17886	17871	17856	17842	17828	17814	17800
165.0	18024	18011	17999	17987	17974	17962	17948	17934	17920	17906
167.5	18094	18083	18073	18063	18053	18043	18029	18015	18001	17987
170.0	18138	18130	18121	18112	18103	18094	18081	18068	18055	18042
172.5	18163	18156	18148	18140	18132	18124	18112	18100	18089	18077
175.0	18171	18163	18154	18146	18137	18129	18119	18109	18099	18089
177.5	18151	18142	18134	18126	18117	18109	18099	18090	18080	18071
180.0	18109	18109	18109	18109	18109	18109	18109	18109	18109	18109

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	293	269	245	221	197
95.0	619	579	539	499	459

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

97.5	1058	1008	958	908	858
100.0	1604	1560	1516	1473	1429
102.5	2286	2263	2241	2218	2196
105.0	3131	3123	3116	3108	3100
107.5	4106	4103	4100	4097	4094
110.0	5156	5154	5153	5151	5149
112.5	6257	6252	6246	6241	6235
115.0	7339	7330	7322	7313	7305
117.5	8379	8367	8355	8342	8330
120.0	9364	9354	9344	9334	9324
122.5	10280	10273	10267	10260	10253
125.0	11146	11130	11114	11097	11081
127.5	11927	11911	11895	11880	11864
130.0	12646	12630	12613	12597	12581
132.5	13333	13318	13302	13287	13272
135.0	13964	13949	13933	13918	13903
137.5	14541	14523	14505	14487	14469
140.0	15073	15054	15036	15017	14999
142.5	15563	15544	15526	15507	15489
145.0	16005	15987	15969	15951	15933
147.5	16398	16379	16360	16341	16322
150.0	16742	16724	16706	16688	16670
152.5	17035	17017	16999	16981	16963
155.0	17283	17266	17249	17232	17215
157.5	17485	17469	17453	17438	17422
160.0	17652	17638	17623	17609	17594
162.5	17786	17772	17758	17744	17730
165.0	17892	17878	17864	17850	17836
167.5	17973	17959	17945	17931	17917
170.0	18029	18016	18003	17990	17977
172.5	18065	18053	18042	18030	18018
175.0	18078	18068	18058	18048	18038
177.5	18061	18052	18042	18033	18023
180.0	18109	18109	18109	18109	18109

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDSE-55L-CA-W-40-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	4901.02	N.A.	8.50
90-120	11906.68	N.A.	20.70
90-130	21749.66	N.A.	37.80
90-150	42689.89	N.A.	74.20
90-180	57551.22	N.A.	100.00
110-180	52650.21	N.A.	91.50
0-180	57551.22	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	1040.95
100-110	3860.06
110-120	7005.67
120-130	9842.98
130-140	10860.93
140-150	10079.3
150-160	8032.35
160-170	5096.57
170-180	1732.41

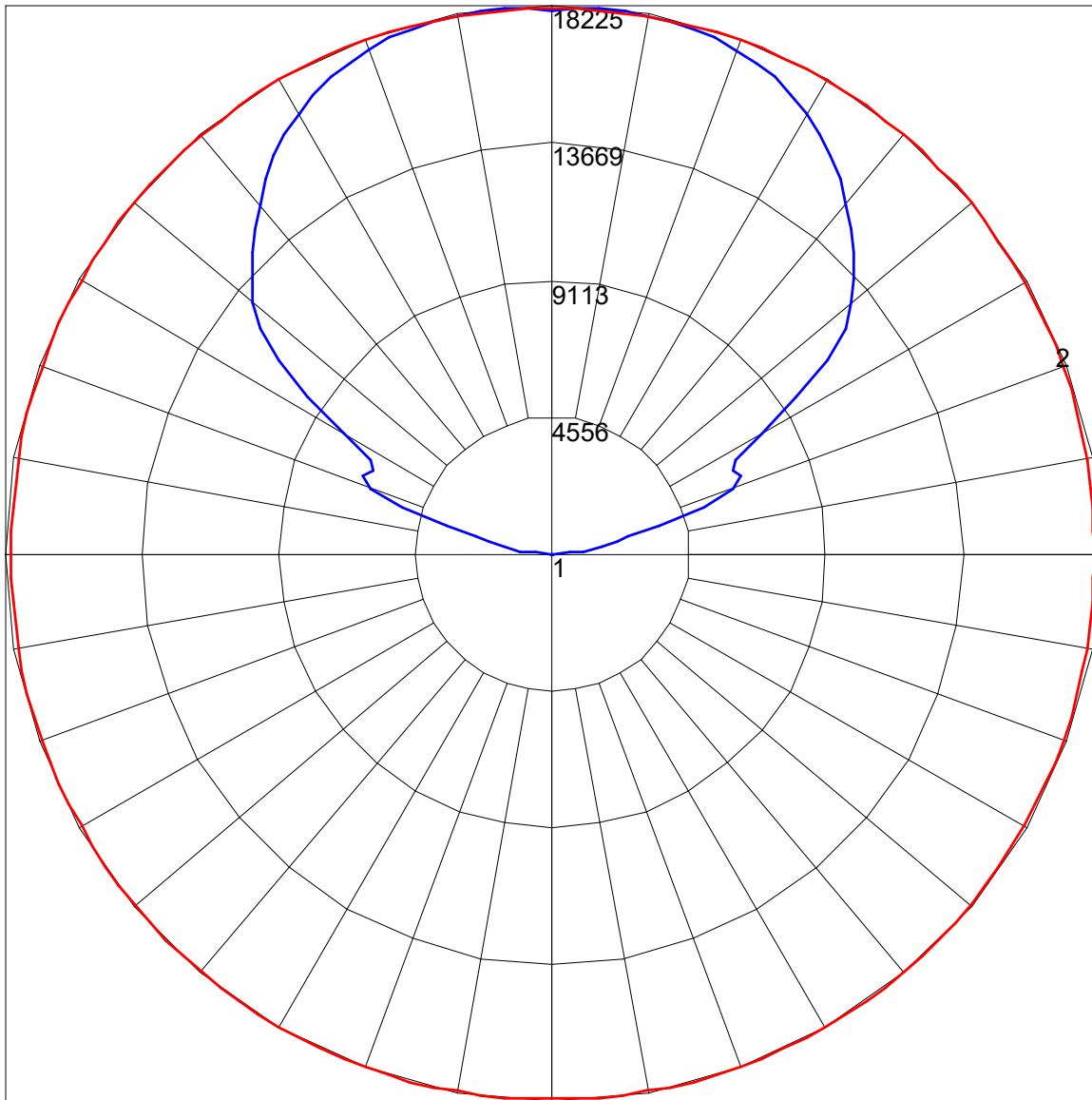
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZNIA-2LEDSE-55L-CA-W-40-ID.IES

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 = 18225 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.)