



8165 E Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Report No: L062617602



Report No: L062617602
Amendment: N/A

Issue Date: 8/28/2026
Revision Date: N/A

Report Prepared For: Arktura
966 Sandhill Ave., Carson, CA 90746

Model Number: SM-HM

Test: Photometric/Electrical Test

Standards Used: Appropriate part or all test guidelines were used for test performed:

ANSI/IES LM79: 2019 Approved Methods for Optical and Electrical Measurements of Solid-State Lighting Products

ANSI/NEMA C78.377: 2017 Specification of the Chromaticity of Solid State Lighting Products

ANSI C82.77-10:2014: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

Special Test Condition: Fixture is tested with no special conditions.

Date of Tests: 8/28/26

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S3	6/21/27
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	6/25/27
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

General Information

Manufacturer:	Arktura
Model Number:	SM-HM
Driver Model Number:	N/A

Photometric & Electrical Test Results

Total Lumens:	154.00
Efficacy:	28.51
Input Voltage (VDC):	24.00
Input Current (Amp):	0.2251
Input Power (W):	5.40
Input Power Factor:	1.0000
Current ATHD (%):	N/A

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:35
Total Operating Time (Hours):	1:15

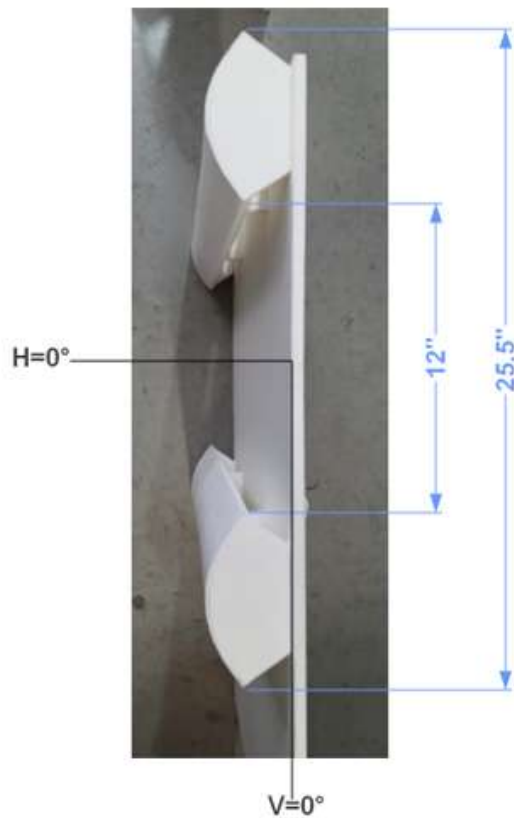


FIG. 1 LUMINAIRE



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Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by : JG

Test Report Reviewed by:
Jason Gee

**Attached are photometric data reports.*



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Addendum A

Report Amendment Log

Date	Reference No.	Revision Description	Revision By



8165 E. Kaiser Blvd. Anaheim, CA 92808
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Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L062617602.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L062617602
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 8/28/2026
[MANUFAC] Arktura
[LUMCAT] SM-HM
[LUMINAIRE] SoundForm Arc, 6.5" W x 24" L x 12" S
[BALLASTCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 24VDC
[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	154
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	29
Total Luminaire Watts	5.4
Ballast Factor	1.00
CIE Type	General Diffuse
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)	1.00 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	269	206	0
55	371	283	0
65	543	411	0
75	909	671	0
85	2699	1992	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L062617602.IES

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	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1
7.5	4	4	4	4	4	4	4	4	3	3
10.0	6	6	6	6	6	6	6	6	6	5
12.5	9	9	9	9	9	9	8	8	8	8
15.0	14	14	14	14	14	14	14	13	13	12
17.5	18	18	18	18	18	17	17	17	17	16
20.0	20	20	20	20	20	20	19	19	19	19
22.5	21	21	21	21	21	21	21	21	20	20
25.0	23	23	23	23	23	22	22	22	22	21
27.5	25	25	25	25	25	24	24	24	24	23
30.0	26	26	26	26	26	26	26	25	25	25
32.5	27	27	28	28	28	27	27	27	26	26
35.0	29	29	29	29	29	29	28	28	28	28
37.5	31	31	30	30	30	30	30	29	29	29
40.0	32	32	32	32	32	32	31	31	31	30
42.5	33	33	33	33	33	33	32	32	32	31
45.0	34	34	34	34	34	33	33	33	33	32
47.5	35	35	35	35	35	34	34	34	34	33
50.0	36	36	36	36	36	35	35	35	34	34
52.5	37	37	37	37	37	36	36	36	35	35
55.0	38	38	38	38	38	37	37	37	36	36
57.5	38	39	39	39	38	38	38	37	37	36
60.0	39	39	39	39	39	39	39	38	38	37
62.5	40	40	40	40	39	39	39	38	38	38
65.0	41	40	40	40	40	40	39	39	38	38
67.5	41	41	41	41	40	40	40	40	39	38
70.0	41	41	41	41	41	41	40	40	39	39
72.5	42	42	42	41	41	41	40	40	39	39
75.0	42	42	42	41	41	41	41	40	40	39
77.5	42	42	42	42	42	41	41	40	40	39
80.0	42	42	42	42	41	42	41	40	40	39
82.5	42	42	42	42	42	41	41	40	40	39
85.0	42	42	42	42	42	42	41	41	40	39
87.5	42	42	42	42	42	41	41	41	40	39
90.0	42	42	42	42	42	41	41	41	40	39
92.5	42	43	42	42	42	41	41	41	40	39
95.0	42	42	42	42	42	42	41	41	40	39
97.5	42	42	42	42	42	42	41	40	40	40
100.0	42	42	42	42	42	42	41	41	40	40
102.5	42	42	42	42	42	41	41	41	40	40
105.0	42	42	42	42	42	41	41	41	40	39
107.5	42	42	42	42	42	41	41	40	40	40
110.0	42	42	42	41	41	41	41	40	40	39
112.5	42	42	41	41	41	41	41	40	40	39
115.0	41	41	41	41	40	40	40	40	39	39
117.5	41	41	41	41	40	40	40	39	39	38
120.0	40	40	40	40	40	39	39	39	39	38
122.5	40	40	40	40	39	39	39	38	38	37
125.0	39	39	39	39	39	38	38	38	37	37
127.5	38	38	38	38	38	37	37	37	36	36
130.0	37	37	37	37	37	36	36	36	35	35
132.5	36	37	37	37	36	36	35	35	35	34

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CANDELA TABULATION - (Cont.)

135.0	35	35	36	35	35	34	34	34	34	33
137.5	34	34	34	34	34	34	33	33	33	32
140.0	33	33	33	33	33	33	32	32	32	32
142.5	32	32	32	32	32	32	31	31	31	30
145.0	31	31	31	31	31	30	30	30	29	29
147.5	29	29	29	29	29	29	28	28	28	27
150.0	27	27	27	27	27	27	27	27	26	26
152.5	26	26	26	26	26	25	25	25	25	24
155.0	24	24	24	24	24	23	23	23	23	22
157.5	22	22	22	22	22	22	22	22	21	21
160.0	21	21	21	21	21	21	20	20	20	20
162.5	19	19	19	19	19	18	18	18	18	17
165.0	16	16	16	16	15	15	15	14	14	13
167.5	10	10	10	10	10	10	9	9	9	8
170.0	7	7	7	7	6	6	6	6	6	6
172.5	4	4	4	4	4	4	4	4	3	3
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

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	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1
7.5	3	3	3	3	2	2	2	2	1	1
10.0	5	5	5	5	5	5	4	4	4	4
12.5	8	7	7	7	7	6	6	6	6	6
15.0	12	11	10	9	9	8	8	8	7	7
17.5	16	16	15	14	13	12	11	10	9	9
20.0	18	18	18	17	17	16	15	14	13	12
22.5	20	20	19	19	19	18	17	17	16	15
25.0	21	21	21	20	20	20	19	19	18	17
27.5	23	22	22	21	21	21	20	20	19	19
30.0	24	24	23	23	22	22	21	21	20	20
32.5	25	25	25	24	24	23	22	22	21	21
35.0	27	26	26	26	25	25	24	23	22	21
37.5	28	28	27	27	26	26	25	24	23	22
40.0	29	29	28	27	27	26	26	25	24	23
42.5	30	30	29	29	28	28	27	26	25	24
45.0	32	31	30	30	29	29	28	27	26	25
47.5	33	32	32	31	30	29	29	28	27	26
50.0	34	33	33	32	31	30	29	29	27	26
52.5	34	34	33	33	32	31	30	29	28	27
55.0	35	35	34	33	33	31	31	30	29	28
57.5	36	35	35	34	33	32	31	30	30	29
60.0	37	36	35	35	34	33	32	31	30	29
62.5	37	37	36	35	34	34	32	31	31	30
65.0	38	37	36	35	34	34	33	32	31	30
67.5	38	37	36	35	35	34	33	32	31	30
70.0	38	38	37	36	35	34	33	33	32	31
72.5	38	38	37	36	36	35	34	33	32	31
75.0	38	38	37	36	36	35	34	32	31	30
77.5	39	38	37	36	35	34	33	32	31	31
80.0	39	38	37	36	36	35	34	33	32	30

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CANDELA TABULATION - (Cont.)

82.5	39	38	38	37	36	35	34	33	32	30
85.0	39	38	37	37	36	35	34	33	31	30
87.5	39	38	37	36	36	35	34	33	31	30
90.0	39	38	37	37	36	34	34	32	31	30
92.5	39	38	37	37	36	35	34	33	32	30
95.0	39	38	38	37	36	35	34	33	32	30
97.5	39	38	38	37	36	35	34	33	32	31
100.0	39	38	37	36	36	35	34	33	32	31
102.5	39	38	38	37	36	35	34	33	32	31
105.0	39	39	38	37	36	35	34	33	32	31
107.5	39	38	37	36	36	35	34	33	32	31
110.0	38	38	37	37	36	35	34	33	32	31
112.5	39	38	37	36	36	35	34	33	32	31
115.0	38	37	37	36	35	34	34	33	32	31
117.5	38	37	36	36	35	34	33	32	32	30
120.0	38	37	36	36	34	34	33	32	31	30
122.5	37	36	36	35	34	34	32	31	30	29
125.0	36	36	35	34	34	33	32	31	30	29
127.5	35	35	34	34	33	32	31	30	29	28
130.0	35	34	34	33	33	32	31	30	29	28
132.5	34	33	33	32	32	31	30	29	28	27
135.0	33	33	32	31	30	30	29	28	27	26
137.5	32	32	31	30	29	29	28	27	26	26
140.0	31	31	30	29	28	28	27	26	26	25
142.5	30	29	29	28	27	27	26	25	24	23
145.0	28	28	28	27	26	26	25	24	23	22
147.5	27	26	26	26	25	24	23	23	22	21
150.0	26	25	25	24	23	23	22	22	21	21
152.5	24	23	23	22	22	22	21	21	20	20
155.0	22	22	22	21	21	21	20	20	19	18
157.5	21	21	20	20	20	19	18	18	17	16
160.0	19	19	19	18	18	17	16	15	14	13
162.5	17	17	16	15	15	14	13	12	11	10
165.0	13	12	12	11	10	10	9	9	8	7
167.5	8	8	8	7	7	6	6	6	6	6
170.0	5	5	5	5	5	5	4	4	4	4
172.5	3	3	3	3	2	2	2	2	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	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	1	1	1	1	0	0	0	0	0	0
5.0	1	1	1	1	1	1	1	1	1	1
7.5	1	1	1	1	1	1	1	1	1	1
10.0	3	3	3	2	2	2	2	1	1	1
12.5	5	5	5	4	3	3	2	2	2	2
15.0	7	6	6	5	5	4	4	3	2	2
17.5	8	8	7	6	6	5	5	4	3	3
20.0	11	10	9	8	7	6	6	6	5	4
22.5	14	13	11	10	9	7	7	7	6	5
25.0	17	16	14	13	11	10	8	7	7	7
27.5	18	17	16	15	14	13	11	8	8	7

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CANDELA TABULATION - (Cont.)

30.0	19	18	17	16	15	14	12	10	9	8
32.5	20	19	18	17	16	15	14	12	10	9
35.0	21	20	19	18	17	16	15	14	11	9
37.5	21	21	20	19	18	17	16	15	13	10
40.0	23	21	21	20	19	18	17	15	14	12
42.5	23	22	21	20	19	18	17	16	15	13
45.0	24	23	22	21	20	19	18	17	15	14
47.5	25	24	23	22	20	19	18	17	16	14
50.0	26	24	23	22	21	20	18	17	16	15
52.5	26	25	24	23	22	20	19	17	16	15
55.0	27	26	24	23	22	21	19	18	17	15
57.5	27	26	25	24	22	21	20	18	17	16
60.0	28	27	26	24	23	21	20	18	17	15
62.5	29	27	26	25	23	22	21	19	17	15
65.0	29	27	26	25	24	22	20	19	17	16
67.5	29	28	26	25	24	22	20	19	18	16
70.0	29	28	26	25	24	22	21	19	18	16
72.5	29	28	27	25	24	22	21	19	18	16
75.0	29	28	27	25	24	22	21	19	17	16
77.5	29	28	27	25	24	22	21	19	18	16
80.0	29	28	27	25	24	23	21	19	18	16
82.5	29	28	27	25	24	23	21	19	17	16
85.0	29	28	27	25	24	22	21	19	17	16
87.5	29	28	27	25	24	22	21	19	17	16
90.0	29	28	26	25	24	22	20	19	17	16
92.5	29	28	27	25	24	22	21	19	17	16
95.0	29	28	27	25	24	22	21	19	17	16
97.5	30	28	27	26	24	23	21	19	17	16
100.0	30	28	27	26	24	23	21	20	18	16
102.5	30	29	27	26	24	23	21	20	18	16
105.0	30	28	27	26	24	23	21	20	18	17
107.5	30	29	27	26	24	23	21	20	18	16
110.0	30	29	27	26	24	23	21	20	18	16
112.5	30	29	27	26	24	23	21	20	18	16
115.0	29	28	27	26	24	23	21	20	18	16
117.5	29	28	26	25	24	22	21	20	18	16
120.0	29	28	26	25	24	22	21	19	18	16
122.5	28	27	26	25	23	21	20	19	17	16
125.0	28	27	25	24	23	21	20	19	17	16
127.5	27	26	25	24	23	21	20	18	17	16
130.0	27	26	24	23	22	21	19	18	17	16
132.5	26	25	24	23	21	20	19	18	17	15
135.0	26	24	23	22	21	20	18	17	16	15
137.5	25	23	22	21	20	19	18	17	16	14
140.0	24	22	21	20	19	19	18	16	15	13
142.5	22	21	20	20	19	18	17	16	14	11
145.0	21	21	20	19	18	17	16	15	12	10
147.5	21	20	19	18	17	16	15	13	10	9
150.0	20	19	18	17	16	15	13	11	9	8
152.5	19	18	17	16	14	13	11	9	8	8
155.0	18	17	15	14	12	11	9	8	7	7
157.5	15	14	13	12	10	8	8	7	6	5
160.0	12	11	10	9	7	7	6	6	5	4
162.5	9	8	7	6	6	6	5	4	3	3
165.0	7	6	6	5	5	4	4	3	2	2
167.5	5	5	5	4	3	3	2	2	2	2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L062617602.IES

CANDELA TABULATION - (Cont.)

170.0	3	3	3	2	2	2	2	2	2	2
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0
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	1	0	0	0	0	0	0	0	0	0
7.5	1	1	1	0	0	0	0	0	0	0
10.0	1	1	1	1	0	0	0	0	0	0
12.5	2	1	1	1	1	0	0	0	0	0
15.0	2	2	2	2	1	1	0	0	0	0
17.5	2	2	2	2	1	1	0	0	0	0
20.0	3	3	2	2	1	1	0	0	0	0
22.5	4	3	3	3	2	1	0	0	0	0
25.0	5	4	4	3	3	1	0	0	0	0
27.5	6	5	4	3	3	1	0	0	0	0
30.0	7	5	4	3	3	1	0	0	0	0
32.5	8	6	5	4	4	2	0	0	0	0
35.0	8	7	6	5	4	2	0	0	0	0
37.5	9	8	7	5	5	3	0	0	0	0
40.0	10	9	7	6	5	3	0	0	0	0
42.5	11	9	8	6	6	3	0	0	0	0
45.0	12	10	9	7	6	4	0	0	0	0
47.5	13	11	9	8	6	4	0	0	0	0
50.0	13	11	9	8	7	5	0	0	0	0
52.5	13	12	10	9	7	5	0	0	0	0
55.0	14	12	10	9	7	5	0	0	0	0
57.5	14	12	11	9	8	5	0	0	0	0
60.0	14	13	11	9	8	6	0	0	0	0
62.5	14	12	11	9	8	6	0	0	0	0
65.0	14	12	11	9	8	5	0	0	0	0
67.5	14	12	11	9	8	6	0	0	0	0
70.0	14	12	11	9	8	6	0	0	0	0
72.5	14	13	11	9	7	5	0	0	0	0
75.0	15	13	11	9	7	5	0	0	0	0
77.5	14	13	10	8	7	5	0	0	0	0
80.0	14	13	10	8	7	4	0	0	0	0
82.5	14	12	10	8	7	4	0	0	0	0
85.0	14	12	10	8	6	4	0	0	0	0
87.5	14	12	10	8	6	4	0	0	0	0
90.0	14	12	10	8	6	4	0	0	0	0
92.5	14	12	10	8	6	4	0	0	0	0
95.0	14	12	10	8	6	4	0	0	0	0
97.5	14	12	11	9	7	5	0	0	0	0
100.0	15	13	11	9	7	5	0	0	0	0
102.5	15	13	11	9	7	5	0	0	0	0
105.0	15	13	11	9	8	5	0	0	0	0
107.5	14	13	11	9	8	5	0	0	0	0
110.0	14	12	11	9	8	6	0	0	0	0
112.5	15	13	11	9	8	6	0	0	0	0
115.0	15	13	11	9	8	6	0	0	0	0

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CANDELA TABULATION - (Cont.)

117.5	15	13	11	10	8	6	0	0	0	0
120.0	15	13	11	10	8	6	0	0	0	0
122.5	15	13	12	10	8	6	0	0	0	0
125.0	15	13	11	10	8	6	0	0	0	0
127.5	14	13	11	9	8	5	0	0	0	0
130.0	14	12	10	9	7	5	0	0	0	0
132.5	13	11	9	8	6	4	0	0	0	0
135.0	12	10	9	7	6	4	0	0	0	0
137.5	11	10	8	7	6	3	0	0	0	0
140.0	10	9	8	6	5	3	0	0	0	0
142.5	10	8	7	5	5	3	0	0	0	0
145.0	9	8	6	5	4	2	0	0	0	0
147.5	8	7	5	5	4	2	0	0	0	0
150.0	8	6	5	4	4	2	0	0	0	0
152.5	7	5	4	4	3	2	0	0	0	0
155.0	5	4	4	3	3	1	0	0	0	0
157.5	4	3	3	3	2	1	0	0	0	0
160.0	3	3	2	2	1	1	0	0	0	0
162.5	2	2	2	2	1	1	0	0	0	0
165.0	2	2	2	2	1	1	0	0	0	0
167.5	2	2	2	1	1	0	0	0	0	0
170.0	2	2	1	1	1	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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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	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
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	1
17.5	0	0	0	0	0	0	0	0	0	1
20.0	0	0	0	0	0	0	0	0	0	1
22.5	0	0	0	0	0	0	0	0	0	1
25.0	0	0	0	0	0	0	0	0	0	1

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CANDELA TABULATION - (Cont.)

27.5	0	0	0	0	0	0	0	0	0	1
30.0	0	0	0	0	0	0	0	0	0	1
32.5	0	0	0	0	0	0	0	0	0	2
35.0	0	0	0	0	0	0	0	0	0	2
37.5	0	0	0	0	0	0	0	0	0	3
40.0	0	0	0	0	0	0	0	0	0	3
42.5	0	0	0	0	0	0	0	0	0	3
45.0	0	0	0	0	0	0	0	0	0	4
47.5	0	0	0	0	0	0	0	0	0	4
50.0	0	0	0	0	0	0	0	0	0	5
52.5	0	0	0	0	0	0	0	0	0	5
55.0	0	0	0	0	0	0	0	0	0	5
57.5	0	0	0	0	0	0	0	0	0	5
60.0	0	0	0	0	0	0	0	0	0	6
62.5	0	0	0	0	0	0	0	0	0	6
65.0	0	0	0	0	0	0	0	0	0	5
67.5	0	0	0	0	0	0	0	0	0	6
70.0	0	0	0	0	0	0	0	0	0	6
72.5	0	0	0	0	0	0	0	0	0	5
75.0	0	0	0	0	0	0	0	0	0	5
77.5	0	0	0	0	0	0	0	0	0	5
80.0	0	0	0	0	0	0	0	0	0	4
82.5	0	0	0	0	0	0	0	0	0	4
85.0	0	0	0	0	0	0	0	0	0	4
87.5	0	0	0	0	0	0	0	0	0	4
90.0	0	0	0	0	0	0	0	0	0	4
92.5	0	0	0	0	0	0	0	0	0	4
95.0	0	0	0	0	0	0	0	0	0	4
97.5	0	0	0	0	0	0	0	0	0	5
100.0	0	0	0	0	0	0	0	0	0	5
102.5	0	0	0	0	0	0	0	0	0	5
105.0	0	0	0	0	0	0	0	0	0	5
107.5	0	0	0	0	0	0	0	0	0	5
110.0	0	0	0	0	0	0	0	0	0	6
112.5	0	0	0	0	0	0	0	0	0	6
115.0	0	0	0	0	0	0	0	0	0	6
117.5	0	0	0	0	0	0	0	0	0	6
120.0	0	0	0	0	0	0	0	0	0	6
122.5	0	0	0	0	0	0	0	0	0	6
125.0	0	0	0	0	0	0	0	0	0	6
127.5	0	0	0	0	0	0	0	0	0	5
130.0	0	0	0	0	0	0	0	0	0	5
132.5	0	0	0	0	0	0	0	0	0	4
135.0	0	0	0	0	0	0	0	0	0	4
137.5	0	0	0	0	0	0	0	0	0	3
140.0	0	0	0	0	0	0	0	0	0	3
142.5	0	0	0	0	0	0	0	0	0	3
145.0	0	0	0	0	0	0	0	0	0	2
147.5	0	0	0	0	0	0	0	0	0	2
150.0	0	0	0	0	0	0	0	0	0	2
152.5	0	0	0	0	0	0	0	0	0	2
155.0	0	0	0	0	0	0	0	0	0	1
157.5	0	0	0	0	0	0	0	0	0	1
160.0	0	0	0	0	0	0	0	0	0	1
162.5	0	0	0	0	0	0	0	0	0	1
165.0	0	0	0	0	0	0	0	0	0	1

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CANDELA TABULATION - (Cont.)

167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	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	1	1	1	1	1	1
7.5	0	0	1	1	1	1	1	1	1	1
10.0	0	1	1	1	1	1	1	1	2	2
12.5	1	1	1	1	2	2	2	2	2	3
15.0	1	2	2	2	2	2	2	3	4	4
17.5	1	2	2	2	2	3	3	4	5	5
20.0	1	2	2	3	3	4	5	6	6	6
22.5	2	3	3	3	4	5	6	7	7	7
25.0	3	3	4	4	5	7	7	7	8	10
27.5	3	3	4	5	6	7	8	8	11	13
30.0	3	3	4	5	7	8	9	10	12	14
32.5	4	4	5	6	8	9	10	12	14	15
35.0	4	5	6	7	8	9	11	14	15	16
37.5	5	5	7	8	9	10	13	15	16	17
40.0	5	6	7	9	10	12	14	15	17	18
42.5	6	6	8	9	11	13	15	16	17	18
45.0	6	7	9	10	12	14	15	17	18	19
47.5	6	8	9	11	13	14	16	17	18	19
50.0	7	8	9	11	13	15	16	17	18	20
52.5	7	9	10	12	13	15	16	17	19	20
55.0	7	9	10	12	14	15	17	18	19	21
57.5	8	9	11	12	14	16	17	18	20	21
60.0	8	9	11	13	14	15	17	18	20	21
62.5	8	9	11	12	14	15	17	19	21	22
65.0	8	9	11	12	14	16	17	19	20	22
67.5	8	9	11	12	14	16	18	19	20	22
70.0	8	9	11	12	14	16	18	19	21	22
72.5	7	9	11	13	14	16	18	19	21	22
75.0	7	9	11	13	15	16	17	19	21	22
77.5	7	8	10	13	14	16	18	19	21	22
80.0	7	8	10	13	14	16	18	19	21	23
82.5	7	8	10	12	14	16	17	19	21	23
85.0	6	8	10	12	14	16	17	19	21	22
87.5	6	8	10	12	14	16	17	19	21	22
90.0	6	8	10	12	14	16	17	19	20	22
92.5	6	8	10	12	14	16	17	19	21	22
95.0	6	8	10	12	14	16	17	19	21	22
97.5	7	9	11	12	14	16	17	19	21	23
100.0	7	9	11	13	15	16	18	20	21	23
102.5	7	9	11	13	15	16	18	20	21	23
105.0	8	9	11	13	15	17	18	20	21	23
107.5	8	9	11	13	14	16	18	20	21	23
110.0	8	9	11	12	14	16	18	20	21	23
112.5	8	9	11	13	15	16	18	20	21	23

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CANDELA TABULATION - (Cont.)

115.0	8	9	11	13	15	16	18	20	21	23
117.5	8	10	11	13	15	16	18	20	21	22
120.0	8	10	11	13	15	16	18	19	21	22
122.5	8	10	12	13	15	16	17	19	20	21
125.0	8	10	11	13	15	16	17	19	20	21
127.5	8	9	11	13	14	16	17	18	20	21
130.0	7	9	10	12	14	16	17	18	19	21
132.5	6	8	9	11	13	15	17	18	19	20
135.0	6	7	9	10	12	15	16	17	18	20
137.5	6	7	8	10	11	14	16	17	18	19
140.0	5	6	8	9	10	13	15	16	18	19
142.5	5	5	7	8	10	11	14	16	17	18
145.0	4	5	6	8	9	10	12	15	16	17
147.5	4	5	5	7	8	9	10	13	15	16
150.0	4	4	5	6	8	8	9	11	13	15
152.5	3	4	4	5	7	8	8	9	11	13
155.0	3	3	4	4	5	7	7	8	9	11
157.5	2	3	3	3	4	5	6	7	8	8
160.0	1	2	2	3	3	4	5	6	6	7
162.5	1	2	2	2	2	3	3	4	5	6
165.0	1	2	2	2	2	2	2	3	4	4
167.5	1	1	2	2	2	2	2	2	2	3
170.0	1	1	1	2	2	2	2	2	2	2
172.5	0	1	1	1	1	1	1	1	1	1
175.0	0	0	0	0	1	1	1	1	1	1
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
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	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1
7.5	1	1	1	1	1	1	1	2	2	2
10.0	2	2	3	3	3	4	4	4	4	5
12.5	3	4	5	5	5	6	6	6	6	6
15.0	5	5	6	6	7	7	7	8	8	8
17.5	6	6	7	8	8	9	9	10	11	12
20.0	7	8	9	10	11	12	13	14	15	16
22.5	9	10	11	13	14	15	16	17	17	18
25.0	11	13	14	16	17	17	18	19	19	20
27.5	14	15	16	17	18	19	19	20	20	21
30.0	15	16	17	18	19	20	20	21	21	22
32.5	16	17	18	19	20	21	21	22	22	23
35.0	17	18	19	20	21	21	22	23	24	25
37.5	18	19	20	21	21	22	23	24	25	26
40.0	19	20	21	21	23	23	24	25	26	26
42.5	19	20	21	22	23	24	25	26	27	28
45.0	20	21	22	23	24	25	26	27	28	29
47.5	20	22	23	24	25	26	27	28	29	29
50.0	21	22	23	24	26	26	27	29	29	30
52.5	22	23	24	25	26	27	28	29	30	31
55.0	22	23	24	26	27	28	29	30	31	31
57.5	22	24	25	26	27	29	30	30	31	32
60.0	23	24	26	27	28	29	30	31	32	33

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CANDELA TABULATION - (Cont.)

62.5	23	25	26	27	29	30	31	31	32	34
65.0	24	25	26	27	29	30	31	32	33	34
67.5	24	25	26	28	29	30	31	32	33	34
70.0	24	25	26	28	29	31	32	33	33	34
72.5	24	25	27	28	29	31	32	33	34	35
75.0	24	25	27	28	29	30	31	32	34	35
77.5	24	25	27	28	29	31	31	32	33	34
80.0	24	25	27	28	29	30	32	33	34	35
82.5	24	25	27	28	29	30	32	33	34	35
85.0	24	25	27	28	29	30	31	33	34	35
87.5	24	25	27	28	29	30	31	33	34	35
90.0	24	25	26	28	29	30	31	32	34	34
92.5	24	25	27	28	29	30	32	33	34	35
95.0	24	25	27	28	29	30	32	33	34	35
97.5	24	26	27	28	30	31	32	33	34	35
100.0	24	26	27	28	30	31	32	33	34	35
102.5	24	26	27	29	30	31	32	33	34	35
105.0	24	26	27	28	30	31	32	33	34	35
107.5	24	26	27	29	30	31	32	33	34	35
110.0	24	26	27	29	30	31	32	33	34	35
112.5	24	26	27	29	30	31	32	33	34	35
115.0	24	26	27	28	29	31	32	33	34	34
117.5	24	25	26	28	29	30	32	32	33	34
120.0	24	25	26	28	29	30	31	32	33	34
122.5	23	25	26	27	28	29	30	31	32	34
125.0	23	24	25	27	28	29	30	31	32	33
127.5	23	24	25	26	27	28	29	30	31	32
130.0	22	23	24	26	27	28	29	30	31	32
132.5	21	23	24	25	26	27	28	29	30	31
135.0	21	22	23	24	26	26	27	28	29	30
137.5	20	21	22	23	25	26	26	27	28	29
140.0	19	20	21	22	24	25	26	26	27	28
142.5	19	20	20	21	22	23	24	25	26	27
145.0	18	19	20	21	21	22	23	24	25	26
147.5	17	18	19	20	21	21	22	23	23	24
150.0	16	17	18	19	20	21	21	22	22	23
152.5	14	16	17	18	19	20	20	21	21	22
155.0	12	14	15	17	18	18	19	20	20	21
157.5	10	12	13	14	15	16	17	18	18	19
160.0	7	9	10	11	12	13	14	15	16	17
162.5	6	6	7	8	9	10	11	12	13	14
165.0	5	5	6	6	7	7	8	9	9	10
167.5	3	4	5	5	5	6	6	6	6	6
170.0	2	2	3	3	3	4	4	4	4	5
172.5	1	1	1	1	1	1	1	2	2	2
175.0	1	1	1	1	1	1	1	1	1	1
177.5	0	1	1	1	1	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

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	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1
7.5	2	3	3	3	3	3	3	4	4	4

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CANDELA TABULATION - (Cont.)

10.0	5	5	5	5	5	5	6	6	6	6
12.5	7	7	7	7	8	8	8	8	8	9
15.0	9	9	10	11	12	12	13	13	14	14
17.5	13	14	15	16	16	16	17	17	17	17
20.0	17	17	18	18	18	19	19	19	19	20
22.5	19	19	19	20	20	20	20	21	21	21
25.0	20	20	21	21	21	21	22	22	22	22
27.5	21	21	22	22	23	23	24	24	24	24
30.0	22	23	23	24	24	25	25	25	26	26
32.5	24	24	25	25	25	26	26	27	27	27
35.0	25	26	26	26	27	28	28	28	28	29
37.5	26	27	27	28	28	29	29	29	30	30
40.0	27	27	28	29	29	30	31	31	31	32
42.5	28	29	29	30	30	31	32	32	32	33
45.0	29	30	30	31	32	32	33	33	33	33
47.5	30	31	32	32	33	33	34	34	34	34
50.0	31	32	33	33	34	34	34	35	35	35
52.5	32	33	33	34	34	35	35	36	36	36
55.0	33	33	34	35	35	36	36	37	37	37
57.5	33	34	35	35	36	36	37	37	38	38
60.0	34	35	35	36	37	37	38	38	39	39
62.5	34	35	36	37	37	38	38	38	39	39
65.0	34	35	36	37	38	38	38	39	39	40
67.5	35	35	36	37	38	38	39	40	40	40
70.0	35	36	37	38	38	39	39	40	40	41
72.5	36	36	37	38	38	39	39	40	40	41
75.0	36	36	37	38	38	39	40	40	41	41
77.5	35	36	37	38	39	39	40	40	41	41
80.0	36	36	37	38	39	39	40	40	41	42
82.5	36	37	38	38	39	39	40	40	41	41
85.0	36	37	37	38	39	39	40	41	41	42
87.5	36	36	37	38	39	39	40	41	41	41
90.0	36	37	37	38	39	39	40	41	41	41
92.5	36	37	37	38	39	39	40	41	41	41
95.0	36	37	38	38	39	39	40	41	41	42
97.5	36	37	38	38	39	40	40	40	41	42
100.0	36	36	37	38	39	40	40	41	41	42
102.5	36	37	38	38	39	40	40	41	41	41
105.0	36	37	38	39	39	40	40	41	41	41
107.5	36	36	37	38	39	40	40	40	41	41
110.0	36	37	37	38	38	39	40	40	41	41
112.5	36	36	37	38	39	39	40	40	41	41
115.0	35	36	37	37	38	39	39	40	40	40
117.5	35	36	36	37	38	38	39	39	40	40
120.0	34	36	36	37	38	38	39	39	39	39
122.5	34	35	36	36	37	37	38	38	39	39
125.0	34	34	35	36	36	37	37	38	38	38
127.5	33	34	34	35	35	36	36	37	37	37
130.0	33	33	34	34	35	35	35	36	36	36
132.5	32	32	33	33	34	34	35	35	35	36
135.0	30	31	32	33	33	33	34	34	34	34
137.5	29	30	31	32	32	32	33	33	33	34
140.0	28	29	30	31	31	32	32	32	32	33
142.5	27	28	29	29	30	30	31	31	31	32
145.0	26	27	28	28	28	29	29	30	30	30
147.5	25	26	26	26	27	27	28	28	28	29

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CANDELA TABULATION - (Cont.)

150.0	23	24	25	25	26	26	26	27	27	27
152.5	22	22	23	23	24	24	25	25	25	25
155.0	21	21	22	22	22	22	23	23	23	23
157.5	20	20	20	21	21	21	21	22	22	22
160.0	18	18	19	19	19	20	20	20	20	21
162.5	15	15	16	17	17	17	18	18	18	18
165.0	10	11	12	12	13	13	14	14	15	15
167.5	7	7	8	8	8	8	9	9	9	10
170.0	5	5	5	5	5	6	6	6	6	6
172.5	2	3	3	3	3	3	3	4	4	4
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	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	1	1	1	1	1
5.0	1	1	1	1	1
7.5	4	4	4	4	4
10.0	6	6	6	6	6
12.5	9	9	9	9	9
15.0	14	14	14	14	14
17.5	18	18	18	18	18
20.0	20	20	20	20	20
22.5	21	21	21	21	21
25.0	23	23	23	23	23
27.5	25	25	25	25	25
30.0	26	26	26	26	26
32.5	28	28	28	27	27
35.0	29	29	29	29	29
37.5	30	30	30	31	31
40.0	32	32	32	32	32
42.5	33	33	33	33	33
45.0	34	34	34	34	34
47.5	35	35	35	35	35
50.0	36	36	36	36	36
52.5	37	37	37	37	37
55.0	38	38	38	38	38
57.5	38	39	39	39	38
60.0	39	39	39	39	39
62.5	39	40	40	40	40
65.0	40	40	40	40	41
67.5	40	41	41	41	41
70.0	41	41	41	41	41
72.5	41	41	42	42	42
75.0	41	41	42	42	42
77.5	42	42	42	42	42
80.0	41	42	42	42	42
82.5	42	42	42	42	42
85.0	42	42	42	42	42
87.5	42	42	42	42	42
90.0	42	42	42	42	42
92.5	42	42	42	43	42
95.0	42	42	42	42	42

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CANDELA TABULATION - (Cont.)

97.5	42	42	42	42	42
100.0	42	42	42	42	42
102.5	42	42	42	42	42
105.0	42	42	42	42	42
107.5	42	42	42	42	42
110.0	41	41	42	42	42
112.5	41	41	41	42	42
115.0	40	41	41	41	41
117.5	40	41	41	41	41
120.0	40	40	40	40	40
122.5	39	40	40	40	40
125.0	39	39	39	39	39
127.5	38	38	38	38	38
130.0	37	37	37	37	37
132.5	36	37	37	37	36
135.0	35	35	36	35	35
137.5	34	34	34	34	34
140.0	33	33	33	33	33
142.5	32	32	32	32	32
145.0	31	31	31	31	31
147.5	29	29	29	29	29
150.0	27	27	27	27	27
152.5	26	26	26	26	26
155.0	24	24	24	24	24
157.5	22	22	22	22	22
160.0	21	21	21	21	21
162.5	19	19	19	19	19
165.0	15	16	16	16	16
167.5	10	10	10	10	10
170.0	6	7	7	7	7
172.5	4	4	4	4	4
175.0	1	1	1	1	1
177.5	1	1	1	1	1
180.0	0	0	0	0	0

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1.22	N.A.	0.80
0-30	4.69	N.A.	3.00
0-40	10.89	N.A.	7.10
0-60	31.67	N.A.	20.60
0-80	60.48	N.A.	39.30
0-90	75.99	N.A.	49.40
10-90	75.91	N.A.	49.30
20-40	9.67	N.A.	6.30
20-50	18.74	N.A.	12.20
40-70	34.57	N.A.	22.50
60-80	28.81	N.A.	18.70
70-80	15.03	N.A.	9.80
80-90	15.51	N.A.	10.10
90-110	30.83	N.A.	20.00
90-120	44.93	N.A.	29.20
90-130	57.05	N.A.	37.10
90-150	73.01	N.A.	47.40
90-180	77.98	N.A.	50.60
110-180	47.15	N.A.	30.60
0-180	153.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.09
10-20	1.14
20-30	3.47
30-40	6.19
40-50	9.07
50-60	11.71
60-70	13.78
70-80	15.03
80-90	15.51
90-100	15.58
100-110	15.24
110-120	14.10
120-130	12.12
130-140	9.45
140-150	6.51
150-160	3.66
160-170	1.22
170-180	0.09

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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	92	86	80	75	84	79	73	69	65	61	57	52	49	47	41	39	37	31
2	82	72	64	57	74	66	58	52	54	48	43	43	39	35	33	30	27	22
3	74	62	52	45	67	56	48	41	46	39	34	36	31	27	27	24	21	16
4	66	53	44	36	60	49	40	33	40	33	27	31	26	22	24	20	16	12
5	60	47	37	30	55	43	34	28	35	28	23	27	22	18	21	16	13	10
6	55	41	32	25	50	38	29	23	31	24	19	24	19	15	18	14	11	8
7	51	37	28	22	46	34	26	20	28	21	16	22	17	13	16	12	9	6
8	47	33	24	19	43	30	22	17	25	18	14	20	15	11	15	11	8	5
9	44	30	22	16	39	27	20	15	22	16	12	18	13	9	14	10	7	4
10	41	27	19	14	37	25	18	13	21	15	11	16	12	8	12	9	6	4

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UGR TABLE - CORRECTED

Reflectances

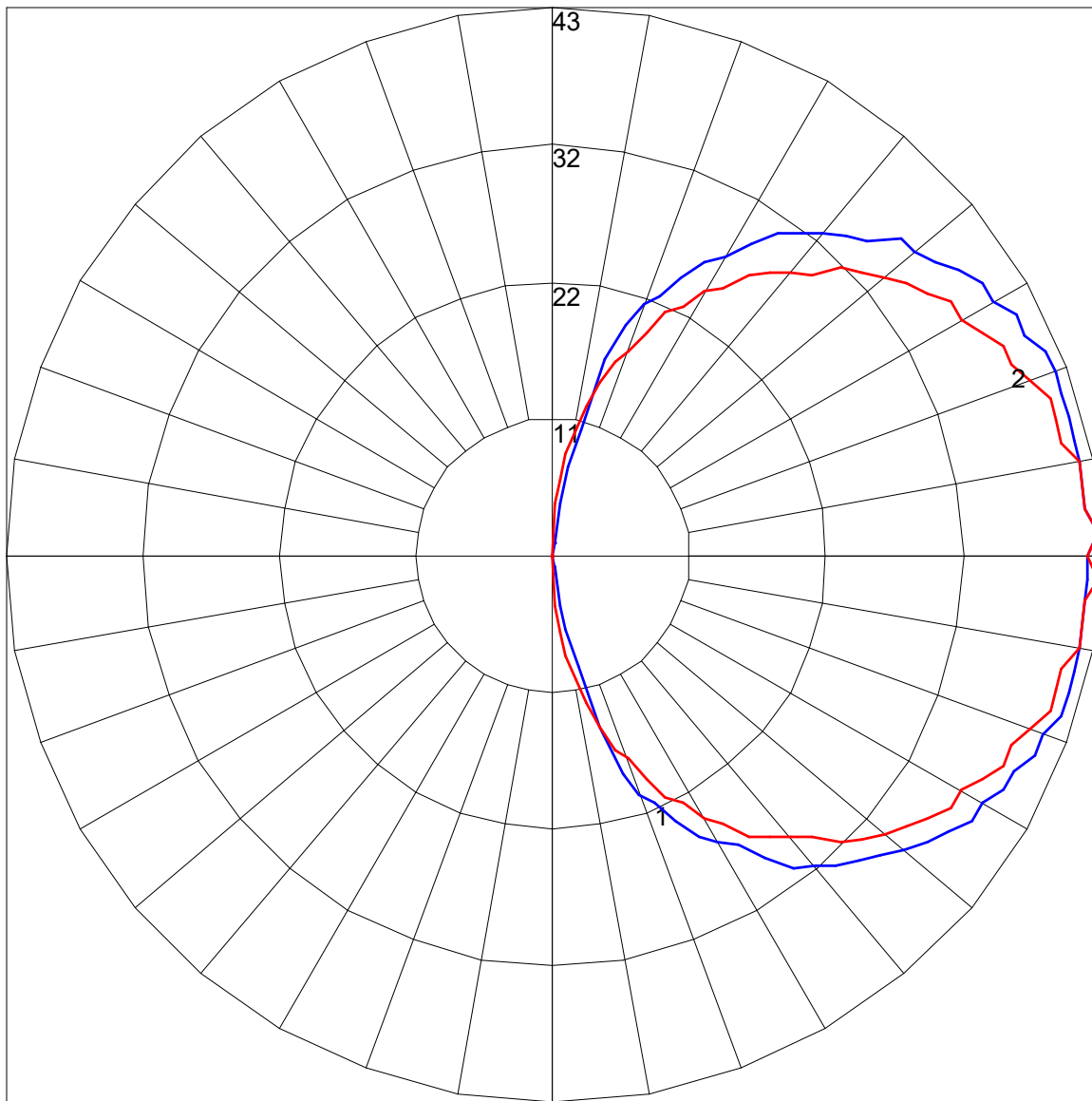
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	8.7	9.7	9.6	10.7	11.9	0.6	1.6	1.5	2.6	3.8
	3H	12.6	13.6	13.6	14.6	15.8	2.7	3.7	3.7	4.6	5.9
	4H	14.7	15.6	15.6	16.5	17.8	3.8	4.7	4.7	5.7	6.9
	6H	16.9	17.8	17.9	18.7	20.0	4.7	5.5	5.6	6.5	7.8
	8H	18.1	18.9	19.1	19.9	21.2	5.1	5.9	6.1	6.9	8.2
	12H	19.5	20.2	20.4	21.2	22.6	5.5	6.2	6.4	7.2	8.6
4H	2H	9.4	10.3	10.3	11.3	12.6	3.7	4.6	4.7	5.6	6.9
	3H	13.6	14.4	14.6	15.4	16.7	6.5	7.3	7.4	8.3	9.6
	4H	15.9	16.6	16.9	17.6	18.9	7.8	8.5	8.8	9.5	10.9
	6H	18.4	19.0	19.3	20.0	21.4	9.0	9.7	10.0	10.7	12.0
	8H	19.7	20.3	20.7	21.3	22.7	9.5	10.2	10.5	11.2	12.5
	12H	21.2	21.8	22.2	22.8	24.2	10.0	10.5	11.0	11.6	12.9
8H	4H	16.4	17.0	17.4	18.0	19.4	10.2	10.8	11.1	11.8	13.1
	6H	19.2	19.7	20.2	20.8	22.1	11.9	12.5	12.9	13.5	14.9
	8H	20.8	21.3	21.8	22.3	23.6	12.8	13.3	13.8	14.3	15.7
	12H	22.6	23.0	23.6	24.0	25.4	13.5	14.0	14.6	15.0	16.4
12H	4H	16.5	17.0	17.5	18.1	19.4	10.9	11.5	11.9	12.5	13.9
	6H	19.4	19.9	20.4	20.9	22.3	13.0	13.4	14.0	14.5	15.9
	8H	21.1	21.5	22.1	22.6	24.0	14.1	14.5	15.1	15.5	16.9

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 43 Located At Horizontal Angle = 2.5, Vertical Angle = 92.5
1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (92.5) (Through Max. Cd.)