



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4018-TU-MO-FWA-D9 ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE]

[MANUFAC] PRUDENTIAL

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	661
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	7
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	Circular
Luminous Length (0-180)	2.08 ft (Diameter)
Luminous Width (90-270)	2.08 ft (Diameter)
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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	9.92	10.96	11.92	12.96	14.00	14.96	16.00	17.04	18.00	19.04
95.0	14.88	15.60	16.40	17.12	17.92	18.64	19.44	20.16	20.96	21.68
97.5	20.80	21.36	21.92	22.48	23.04	23.68	24.24	24.80	25.36	25.92
100.0	27.60	28.00	28.40	28.80	29.20	29.68	30.08	30.48	30.88	31.28
102.5	34.40	34.72	35.04	35.36	35.68	36.00	36.32	36.64	36.96	37.28
105.0	42.88	42.96	42.96	43.04	43.12	43.12	43.20	43.28	43.28	43.36
107.5	48.64	48.80	48.96	49.04	49.20	49.36	49.52	49.60	49.76	49.92
110.0	56.80	56.80	56.80	56.88	56.88	56.88	56.88	56.96	56.96	56.96
112.5	66.00	65.84	65.68	65.52	65.36	65.12	64.96	64.80	64.64	64.48
115.0	69.52	69.92	70.32	70.72	71.12	71.52	71.92	72.32	72.72	73.12
117.5	80.88	80.72	80.64	80.48	80.40	80.24	80.16	80.00	79.92	79.76
120.0	91.60	91.12	90.72	90.24	89.76	89.36	88.88	88.40	88.00	87.52
122.5	94.56	94.64	94.80	94.88	94.96	95.12	95.20	95.28	95.44	95.52
125.0	101.36	101.76	102.16	102.56	102.96	103.44	103.84	104.24	104.64	105.04
127.5	112.16	112.40	112.64	112.96	113.20	113.44	113.68	114.00	114.24	114.48
130.0	122.16	121.84	121.60	121.28	120.96	120.72	120.40	120.08	119.84	119.52
132.5	127.84	127.84	127.76	127.76	127.76	127.68	127.68	127.68	127.60	127.60
135.0	138.32	138.00	137.68	137.36	137.04	136.72	136.40	136.08	135.76	135.44
137.5	143.44	143.44	143.44	143.44	143.44	143.52	143.52	143.52	143.52	143.52
140.0	149.60	150.08	150.64	151.12	151.68	152.16	152.72	153.20	153.76	154.24
142.5	160.88	161.12	161.44	161.68	161.92	162.24	162.48	162.72	163.04	163.28
145.0	170.48	170.48	170.40	170.40	170.40	170.32	170.32	170.32	170.24	170.24
147.5	177.84	177.44	177.12	176.72	176.40	176.00	175.68	175.28	174.96	174.56
150.0	182.32	181.84	181.36	180.88	180.40	180.00	179.52	179.04	178.56	178.08
152.5	184.96	184.80	184.72	184.56	184.40	184.32	184.16	184.00	183.92	183.76
155.0	190.72	190.56	190.48	190.32	190.24	190.08	190.00	189.84	189.76	189.60
157.5	196.48	196.32	196.16	196.00	195.84	195.76	195.60	195.44	195.28	195.12
160.0	201.92	201.68	201.52	201.28	201.12	200.88	200.72	200.48	200.32	200.08
162.5	206.64	206.40	206.16	206.00	205.76	205.52	205.28	205.12	204.88	204.64
165.0	210.88	210.64	210.40	210.16	209.92	209.60	209.36	209.12	208.88	208.64
167.5	214.56	214.24	214.00	213.68	213.44	213.12	212.88	212.56	212.32	212.00
170.0	217.44	217.12	216.88	216.56	216.32	216.00	215.76	215.44	215.20	214.88
172.5	220.00	219.68	219.36	219.04	218.72	218.32	218.00	217.68	217.36	217.04
175.0	221.52	221.20	220.88	220.56	220.24	220.00	219.68	219.36	219.04	218.72
177.5	222.88	222.56	222.16	221.84	221.52	221.12	220.80	220.48	220.08	219.76
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	20.32	21.68	22.96	24.32	25.60	26.96	28.24	29.60	30.88	31.60
95.0	23.12	24.56	26.00	27.44	28.96	30.40	31.84	33.28	34.72	35.76
97.5	27.44	28.88	30.40	31.84	33.36	34.80	36.32	37.76	39.28	40.40
100.0	32.72	34.24	35.68	37.20	38.64	40.16	41.60	43.12	44.56	45.68
102.5	38.72	40.08	41.52	42.96	44.32	45.76	47.20	48.56	50.00	51.20
105.0	44.72	46.08	47.44	48.80	50.24	51.60	52.96	54.32	55.68	56.96
107.5	51.20	52.48	53.84	55.12	56.40	57.68	59.04	60.32	61.60	62.88
110.0	58.16	59.36	60.64	61.84	63.04	64.24	65.52	66.72	67.92	69.12
112.5	65.60	66.80	67.92	69.12	70.24	71.44	72.56	73.76	74.88	76.00
115.0	74.08	74.96	75.92	76.88	77.76	78.72	79.68	80.56	81.52	82.64
117.5	80.80	81.76	82.80	83.76	84.80	85.76	86.80	87.76	88.80	89.92
120.0	88.48	89.44	90.48	91.44	92.40	93.36	94.40	95.36	96.32	97.36

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CANDELA TABULATION - (Cont.)

122.5	96.48	97.44	98.40	99.36	100.24	101.20	102.16	103.12	104.08	105.12
125.0	105.76	106.56	107.28	108.00	108.80	109.52	110.24	111.04	111.76	112.72
127.5	115.04	115.60	116.24	116.80	117.36	117.92	118.56	119.12	119.68	120.56
130.0	120.56	121.60	122.56	123.60	124.64	125.68	126.64	127.68	128.72	129.44
132.5	128.88	130.24	131.52	132.80	134.16	135.44	136.72	138.08	139.36	139.68
135.0	136.80	138.16	139.52	140.88	142.24	143.60	144.96	146.32	147.68	147.92
137.5	144.64	145.76	146.80	147.92	149.04	150.16	151.20	152.32	153.44	153.76
140.0	154.64	155.04	155.44	155.84	156.24	156.64	157.04	157.44	157.84	158.40
142.5	163.28	163.28	163.36	163.36	163.36	163.36	163.44	163.44	163.44	164.08
145.0	170.16	170.08	170.00	169.92	169.76	169.68	169.60	169.52	169.44	170.08
147.5	174.64	174.80	174.88	174.96	175.12	175.20	175.28	175.44	175.52	176.08
150.0	178.48	178.80	179.20	179.60	179.92	180.32	180.72	181.04	181.44	181.92
152.5	184.16	184.48	184.88	185.20	185.60	185.92	186.32	186.64	187.04	187.44
155.0	189.92	190.16	190.48	190.80	191.04	191.36	191.68	191.92	192.24	192.64
157.5	195.36	195.52	195.76	196.00	196.16	196.40	196.64	196.80	197.04	197.36
160.0	200.24	200.40	200.56	200.72	200.80	200.96	201.12	201.28	201.44	201.68
162.5	204.72	204.80	204.88	204.96	205.04	205.12	205.20	205.28	205.36	205.52
165.0	208.64	208.64	208.64	208.64	208.64	208.64	208.64	208.64	208.64	208.80
167.5	212.00	211.92	211.92	211.92	211.84	211.84	211.84	211.76	211.76	211.84
170.0	214.80	214.72	214.64	214.56	214.48	214.40	214.32	214.24	214.16	214.24
172.5	216.96	216.80	216.72	216.64	216.48	216.40	216.32	216.16	216.08	216.08
175.0	218.56	218.40	218.24	218.08	218.00	217.84	217.68	217.52	217.36	217.36
177.5	219.60	219.44	219.28	219.12	218.88	218.72	218.56	218.40	218.24	218.24
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

Vert. Horizontal Angles
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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	32.40	33.12	33.84	34.64	35.36	36.08	36.88	37.60	37.76	37.92
95.0	36.80	37.84	38.88	39.84	40.88	41.92	42.96	44.00	44.40	44.72
97.5	41.52	42.56	43.68	44.80	45.92	46.96	48.08	49.20	49.60	50.00
100.0	46.88	48.00	49.12	50.32	51.44	52.56	53.76	54.88	55.28	55.76
102.5	52.40	53.68	54.88	56.08	57.28	58.56	59.76	60.96	61.36	61.76
105.0	58.24	59.44	60.72	62.00	63.28	64.48	65.76	67.04	67.44	67.84
107.5	64.16	65.36	66.64	67.92	69.20	70.40	71.68	72.96	73.36	73.76
110.0	70.40	71.60	72.80	74.08	75.28	76.48	77.76	78.96	79.36	79.76
112.5	77.12	78.32	79.44	80.56	81.68	82.88	84.00	85.12	85.52	85.92
115.0	83.76	84.88	86.00	87.20	88.32	89.44	90.56	91.68	92.08	92.48
117.5	90.96	92.08	93.20	94.24	95.36	96.48	97.52	98.64	98.96	99.36
120.0	98.40	99.52	100.56	101.60	102.64	103.76	104.80	105.84	106.16	106.56
122.5	106.08	107.12	108.08	109.12	110.08	111.12	112.08	113.12	113.44	113.76
125.0	113.68	114.64	115.60	116.56	117.52	118.48	119.44	120.40	120.72	121.04
127.5	121.52	122.40	123.28	124.24	125.12	126.00	126.96	127.84	128.16	128.40
130.0	130.16	130.88	131.60	132.32	133.04	133.76	134.48	135.20	135.52	135.76
132.5	140.08	140.40	140.72	141.12	141.44	141.76	142.16	142.48	142.72	143.04
135.0	148.08	148.32	148.48	148.72	148.88	149.12	149.28	149.52	149.76	150.00
137.5	154.08	154.40	154.72	155.04	155.36	155.68	156.00	156.32	156.56	156.80
140.0	158.96	159.52	160.08	160.64	161.20	161.76	162.32	162.88	163.12	163.36
142.5	164.72	165.36	166.00	166.56	167.20	167.84	168.48	169.12	169.36	169.52
145.0	170.72	171.28	171.92	172.56	173.20	173.76	174.40	175.04	175.28	175.52
147.5	176.64	177.20	177.76	178.40	178.96	179.52	180.08	180.64	180.88	181.04
150.0	182.48	182.96	183.52	184.00	184.56	185.04	185.60	186.08	186.24	186.40
152.5	187.92	188.32	188.72	189.20	189.60	190.00	190.48	190.88	191.04	191.28
155.0	192.96	193.36	193.68	194.08	194.40	194.80	195.12	195.52	195.68	195.84
157.5	197.68	197.92	198.24	198.56	198.88	199.12	199.44	199.76	199.92	200.08

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CANDELA TABULATION - (Cont.)

160.0	201.92	202.16	202.40	202.64	202.88	203.12	203.36	203.60	203.76	203.84
162.5	205.76	205.92	206.08	206.32	206.48	206.64	206.88	207.04	207.12	207.20
165.0	208.96	209.12	209.28	209.36	209.52	209.68	209.84	210.00	210.08	210.16
167.5	211.92	212.00	212.08	212.24	212.32	212.40	212.48	212.56	212.64	212.72
170.0	214.24	214.32	214.40	214.40	214.48	214.56	214.56	214.64	214.72	214.80
172.5	216.16	216.16	216.24	216.24	216.32	216.32	216.40	216.40	216.40	216.48
175.0	217.36	217.44	217.44	217.44	217.44	217.52	217.52	217.52	217.60	217.60
177.5	218.24	218.24	218.24	218.24	218.24	218.24	218.24	218.24	218.24	218.24
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	38.00	38.16	38.32	38.48	38.56	38.72	38.88	38.72	38.56	38.48
95.0	45.12	45.52	45.84	46.24	46.64	46.96	47.36	46.96	46.64	46.24
97.5	50.40	50.80	51.28	51.68	52.08	52.48	52.88	52.48	52.08	51.68
100.0	56.16	56.56	57.04	57.44	57.84	58.32	58.72	58.32	57.84	57.44
102.5	62.24	62.64	63.04	63.44	63.92	64.32	64.72	64.32	63.92	63.44
105.0	68.24	68.64	69.04	69.44	69.84	70.24	70.64	70.24	69.84	69.44
107.5	74.16	74.56	74.88	75.28	75.68	76.08	76.48	76.08	75.68	75.28
110.0	80.08	80.48	80.88	81.28	81.60	82.00	82.40	82.00	81.60	81.28
112.5	86.24	86.64	87.04	87.44	87.76	88.16	88.56	88.16	87.76	87.44
115.0	92.88	93.28	93.60	94.00	94.40	94.80	95.20	94.80	94.40	94.00
117.5	99.68	100.08	100.40	100.80	101.12	101.52	101.84	101.52	101.12	100.80
120.0	106.88	107.20	107.60	107.92	108.24	108.64	108.96	108.64	108.24	107.92
122.5	114.08	114.40	114.80	115.12	115.44	115.76	116.08	115.76	115.44	115.12
125.0	121.36	121.68	121.92	122.24	122.56	122.88	123.20	122.88	122.56	122.24
127.5	128.72	128.96	129.28	129.52	129.84	130.08	130.40	130.08	129.84	129.52
130.0	136.08	136.32	136.64	136.88	137.20	137.44	137.76	137.44	137.20	136.88
132.5	143.28	143.52	143.84	144.08	144.32	144.64	144.88	144.64	144.32	144.08
135.0	150.24	150.48	150.72	150.96	151.20	151.44	151.68	151.44	151.20	150.96
137.5	157.04	157.28	157.44	157.68	157.92	158.16	158.40	158.16	157.92	157.68
140.0	163.60	163.84	164.00	164.24	164.48	164.72	164.96	164.72	164.48	164.24
142.5	169.76	170.00	170.16	170.40	170.64	170.80	171.04	170.80	170.64	170.40
145.0	175.68	175.92	176.16	176.40	176.56	176.80	177.04	176.80	176.56	176.40
147.5	181.28	181.44	181.68	181.84	182.08	182.24	182.48	182.24	182.08	181.84
150.0	186.56	186.72	186.96	187.12	187.28	187.44	187.60	187.44	187.28	187.12
152.5	191.44	191.68	191.84	192.08	192.24	192.48	192.64	192.48	192.24	192.08
155.0	196.00	196.16	196.40	196.56	196.72	196.88	197.04	196.88	196.72	196.56
157.5	200.24	200.40	200.48	200.64	200.80	200.96	201.12	200.96	200.80	200.64
160.0	204.00	204.08	204.24	204.32	204.48	204.56	204.72	204.56	204.48	204.32
162.5	207.28	207.36	207.52	207.60	207.68	207.76	207.84	207.76	207.68	207.60
165.0	210.24	210.32	210.40	210.48	210.56	210.64	210.72	210.64	210.56	210.48
167.5	212.80	212.88	212.88	212.96	213.04	213.12	213.20	213.12	213.04	212.96
170.0	214.88	214.96	215.04	215.12	215.20	215.28	215.36	215.28	215.20	215.12
172.5	216.48	216.56	216.56	216.64	216.64	216.72	216.72	216.72	216.64	216.64
175.0	217.68	217.68	217.76	217.76	217.84	217.84	217.92	217.84	217.84	217.76
177.5	218.32	218.32	218.32	218.32	218.40	218.40	218.40	218.40	218.40	218.32
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	38.32	38.16	38.00	37.92	37.76	37.60	36.88	36.08	35.36	34.64

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CANDELA TABULATION - (Cont.)

95.0	45.84	45.52	45.12	44.72	44.40	44.00	42.96	41.92	40.88	39.84
97.5	51.28	50.80	50.40	50.00	49.60	49.20	48.08	46.96	45.92	44.80
100.0	57.04	56.56	56.16	55.76	55.28	54.88	53.76	52.56	51.44	50.32
102.5	63.04	62.64	62.24	61.76	61.36	60.96	59.76	58.56	57.28	56.08
105.0	69.04	68.64	68.24	67.84	67.44	67.04	65.76	64.48	63.28	62.00
107.5	74.88	74.56	74.16	73.76	73.36	72.96	71.68	70.40	69.20	67.92
110.0	80.88	80.48	80.08	79.76	79.36	78.96	77.76	76.48	75.28	74.08
112.5	87.04	86.64	86.24	85.92	85.52	85.12	84.00	82.88	81.68	80.56
115.0	93.60	93.28	92.88	92.48	92.08	91.68	90.56	89.44	88.32	87.20
117.5	100.40	100.08	99.68	99.36	98.96	98.64	97.52	96.48	95.36	94.24
120.0	107.60	107.20	106.88	106.56	106.16	105.84	104.80	103.76	102.64	101.60
122.5	114.80	114.40	114.08	113.76	113.44	113.12	112.08	111.12	110.08	109.12
125.0	121.92	121.68	121.36	121.04	120.72	120.40	119.44	118.48	117.52	116.56
127.5	129.28	128.96	128.72	128.40	128.16	127.84	126.96	126.00	125.12	124.24
130.0	136.64	136.32	136.08	135.76	135.52	135.20	134.48	133.76	133.04	132.32
132.5	143.84	143.52	143.28	143.04	142.72	142.48	142.16	141.76	141.44	141.12
135.0	150.72	150.48	150.24	150.00	149.76	149.52	149.28	149.12	148.88	148.72
137.5	157.44	157.28	157.04	156.80	156.56	156.32	156.00	155.68	155.36	155.04
140.0	164.00	163.84	163.60	163.36	163.12	162.88	162.32	161.76	161.20	160.64
142.5	170.16	170.00	169.76	169.52	169.36	169.12	168.48	167.84	167.20	166.56
145.0	176.16	175.92	175.68	175.52	175.28	175.04	174.40	173.76	173.20	172.56
147.5	181.68	181.44	181.28	181.04	180.88	180.64	180.08	179.52	178.96	178.40
150.0	186.96	186.72	186.56	186.40	186.24	186.08	185.60	185.04	184.56	184.00
152.5	191.84	191.68	191.44	191.28	191.04	190.88	190.48	190.00	189.60	189.20
155.0	196.40	196.16	196.00	195.84	195.68	195.52	195.12	194.80	194.40	194.08
157.5	200.48	200.40	200.24	200.08	199.92	199.76	199.44	199.12	198.88	198.56
160.0	204.24	204.08	204.00	203.84	203.76	203.60	203.36	203.12	202.88	202.64
162.5	207.52	207.36	207.28	207.20	207.12	207.04	206.88	206.64	206.48	206.32
165.0	210.40	210.32	210.24	210.16	210.08	210.00	209.84	209.68	209.52	209.36
167.5	212.88	212.88	212.80	212.72	212.64	212.56	212.48	212.40	212.32	212.24
170.0	215.04	214.96	214.88	214.80	214.72	214.64	214.56	214.56	214.48	214.40
172.5	216.56	216.56	216.48	216.48	216.40	216.40	216.40	216.32	216.32	216.24
175.0	217.76	217.68	217.68	217.60	217.60	217.52	217.52	217.52	217.44	217.44
177.5	218.32	218.32	218.32	218.24	218.24	218.24	218.24	218.24	218.24	218.24
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	33.84	33.12	32.40	31.60	30.88	29.60	28.24	26.96	25.60	24.32
95.0	38.88	37.84	36.80	35.76	34.72	33.28	31.84	30.40	28.96	27.44
97.5	43.68	42.56	41.52	40.40	39.28	37.76	36.32	34.80	33.36	31.84
100.0	49.12	48.00	46.88	45.68	44.56	43.12	41.60	40.16	38.64	37.20
102.5	54.88	53.68	52.40	51.20	50.00	48.56	47.20	45.76	44.32	42.96
105.0	60.72	59.44	58.24	56.96	55.68	54.32	52.96	51.60	50.24	48.80
107.5	66.64	65.36	64.16	62.88	61.60	60.32	59.04	57.68	56.40	55.12
110.0	72.80	71.60	70.40	69.12	67.92	66.72	65.52	64.24	63.04	61.84
112.5	79.44	78.32	77.12	76.00	74.88	73.76	72.56	71.44	70.24	69.12
115.0	86.00	84.88	83.76	82.64	81.52	80.56	79.68	78.72	77.76	76.88
117.5	93.20	92.08	90.96	89.92	88.80	87.76	86.80	85.76	84.80	83.76
120.0	100.56	99.52	98.40	97.36	96.32	95.36	94.40	93.36	92.40	91.44
122.5	108.08	107.12	106.08	105.12	104.08	103.12	102.16	101.20	100.24	99.36
125.0	115.60	114.64	113.68	112.72	111.76	111.04	110.24	109.52	108.80	108.00
127.5	123.28	122.40	121.52	120.56	119.68	119.12	118.56	117.92	117.36	116.80
130.0	131.60	130.88	130.16	129.44	128.72	127.68	126.64	125.68	124.64	123.60

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CANDELA TABULATION - (Cont.)

132.5	140.72	140.40	140.08	139.68	139.36	138.08	136.72	135.44	134.16	132.80
135.0	148.48	148.32	148.08	147.92	147.68	146.32	144.96	143.60	142.24	140.88
137.5	154.72	154.40	154.08	153.76	153.44	152.32	151.20	150.16	149.04	147.92
140.0	160.08	159.52	158.96	158.40	157.84	157.44	157.04	156.64	156.24	155.84
142.5	166.00	165.36	164.72	164.08	163.44	163.44	163.44	163.36	163.36	163.36
145.0	171.92	171.28	170.72	170.08	169.44	169.52	169.60	169.68	169.76	169.92
147.5	177.76	177.20	176.64	176.08	175.52	175.44	175.28	175.20	175.12	174.96
150.0	183.52	182.96	182.48	181.92	181.44	181.04	180.72	180.32	179.92	179.60
152.5	188.72	188.32	187.92	187.44	187.04	186.64	186.32	185.92	185.60	185.20
155.0	193.68	193.36	192.96	192.64	192.24	191.92	191.68	191.36	191.04	190.80
157.5	198.24	197.92	197.68	197.36	197.04	196.80	196.64	196.40	196.16	196.00
160.0	202.40	202.16	201.92	201.68	201.44	201.28	201.12	200.96	200.80	200.72
162.5	206.08	205.92	205.76	205.52	205.36	205.28	205.20	205.12	205.04	204.96
165.0	209.28	209.12	208.96	208.80	208.64	208.64	208.64	208.64	208.64	208.64
167.5	212.08	212.00	211.92	211.84	211.76	211.76	211.84	211.84	211.84	211.92
170.0	214.40	214.32	214.24	214.24	214.16	214.24	214.32	214.40	214.48	214.56
172.5	216.24	216.16	216.16	216.08	216.08	216.16	216.32	216.40	216.48	216.64
175.0	217.44	217.44	217.36	217.36	217.36	217.52	217.68	217.84	218.00	218.08
177.5	218.24	218.24	218.24	218.24	218.24	218.40	218.56	218.72	218.88	219.12
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	22.96	21.68	20.32	19.04	18.00	17.04	16.00	14.96	14.00	12.96
95.0	26.00	24.56	23.12	21.68	20.96	20.16	19.44	18.64	17.92	17.12
97.5	30.40	28.88	27.44	25.92	25.36	24.80	24.24	23.68	23.04	22.48
100.0	35.68	34.24	32.72	31.28	30.88	30.48	30.08	29.68	29.20	28.80
102.5	41.52	40.08	38.72	37.28	36.96	36.64	36.32	36.00	35.68	35.36
105.0	47.44	46.08	44.72	43.36	43.28	43.28	43.20	43.12	43.12	43.04
107.5	53.84	52.48	51.20	49.92	49.76	49.60	49.52	49.36	49.20	49.04
110.0	60.64	59.36	58.16	56.96	56.96	56.96	56.88	56.88	56.88	56.88
112.5	67.92	66.80	65.60	64.48	64.64	64.80	64.96	65.12	65.36	65.52
115.0	75.92	74.96	74.08	73.12	72.72	72.32	71.92	71.52	71.12	70.72
117.5	82.80	81.76	80.80	79.76	79.92	80.00	80.16	80.24	80.40	80.48
120.0	90.48	89.44	88.48	87.52	88.00	88.40	88.88	89.36	89.76	90.24
122.5	98.40	97.44	96.48	95.52	95.44	95.28	95.20	95.12	94.96	94.88
125.0	107.28	106.56	105.76	105.04	104.64	104.24	103.84	103.44	102.96	102.56
127.5	116.24	115.60	115.04	114.48	114.24	114.00	113.68	113.44	113.20	112.96
130.0	122.56	121.60	120.56	119.52	119.84	120.08	120.40	120.72	120.96	121.28
132.5	131.52	130.24	128.88	127.60	127.60	127.68	127.68	127.68	127.76	127.76
135.0	139.52	138.16	136.80	135.44	135.76	136.08	136.40	136.72	137.04	137.36
137.5	146.80	145.76	144.64	143.52	143.52	143.52	143.52	143.52	143.44	143.44
140.0	155.44	155.04	154.64	154.24	153.76	153.20	152.72	152.16	151.68	151.12
142.5	163.36	163.28	163.28	163.28	163.04	162.72	162.48	162.24	161.92	161.68
145.0	170.00	170.08	170.16	170.24	170.24	170.32	170.32	170.32	170.40	170.40
147.5	174.88	174.80	174.64	174.56	174.96	175.28	175.68	176.00	176.40	176.72
150.0	179.20	178.80	178.48	178.08	178.56	179.04	179.52	180.00	180.40	180.88
152.5	184.88	184.48	184.16	183.76	183.92	184.00	184.16	184.32	184.40	184.56
155.0	190.48	190.16	189.92	189.60	189.76	189.84	190.00	190.08	190.24	190.32
157.5	195.76	195.52	195.36	195.12	195.28	195.44	195.60	195.76	195.84	196.00
160.0	200.56	200.40	200.24	200.08	200.32	200.48	200.72	200.88	201.12	201.28
162.5	204.88	204.80	204.72	204.64	204.88	205.12	205.28	205.52	205.76	206.00
165.0	208.64	208.64	208.64	208.64	208.88	209.12	209.36	209.60	209.92	210.16
167.5	211.92	211.92	212.00	212.00	212.32	212.56	212.88	213.12	213.44	213.68

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CANDELA TABULATION - (Cont.)

170.0	214.64	214.72	214.80	214.88	215.20	215.44	215.76	216.00	216.32	216.56
172.5	216.72	216.80	216.96	217.04	217.36	217.68	218.00	218.32	218.72	219.04
175.0	218.24	218.40	218.56	218.72	219.04	219.36	219.68	220.00	220.24	220.56
177.5	219.28	219.44	219.60	219.76	220.08	220.48	220.80	221.12	221.52	221.84
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	11.92	10.96	9.92	10.96	11.92	12.96	14.00	14.96	16.00	17.04
95.0	16.40	15.60	14.88	15.60	16.40	17.12	17.92	18.64	19.44	20.16
97.5	21.92	21.36	20.80	21.36	21.92	22.48	23.04	23.68	24.24	24.80
100.0	28.40	28.00	27.60	28.00	28.40	28.80	29.20	29.68	30.08	30.48
102.5	35.04	34.72	34.40	34.72	35.04	35.36	35.68	36.00	36.32	36.64
105.0	42.96	42.96	42.88	42.96	42.96	43.04	43.12	43.12	43.20	43.28
107.5	48.96	48.80	48.64	48.80	48.96	49.04	49.20	49.36	49.52	49.60
110.0	56.80	56.80	56.80	56.80	56.80	56.88	56.88	56.88	56.88	56.96
112.5	65.68	65.84	66.00	65.84	65.68	65.52	65.36	65.12	64.96	64.80
115.0	70.32	69.92	69.52	69.92	70.32	70.72	71.12	71.52	71.92	72.32
117.5	80.64	80.72	80.88	80.72	80.64	80.48	80.40	80.24	80.16	80.00
120.0	90.72	91.12	91.60	91.12	90.72	90.24	89.76	89.36	88.88	88.40
122.5	94.80	94.64	94.56	94.64	94.80	94.88	94.96	95.12	95.20	95.28
125.0	102.16	101.76	101.36	101.76	102.16	102.56	102.96	103.44	103.84	104.24
127.5	112.64	112.40	112.16	112.40	112.64	112.96	113.20	113.44	113.68	114.00
130.0	121.60	121.84	122.16	121.84	121.60	121.28	120.96	120.72	120.40	120.08
132.5	127.76	127.84	127.84	127.84	127.76	127.76	127.76	127.68	127.68	127.68
135.0	137.68	138.00	138.32	138.00	137.68	137.36	137.04	136.72	136.40	136.08
137.5	143.44	143.44	143.44	143.44	143.44	143.44	143.44	143.52	143.52	143.52
140.0	150.64	150.08	149.60	150.08	150.64	151.12	151.68	152.16	152.72	153.20
142.5	161.44	161.12	160.88	161.12	161.44	161.68	161.92	162.24	162.48	162.72
145.0	170.40	170.48	170.48	170.48	170.40	170.40	170.40	170.32	170.32	170.32
147.5	177.12	177.44	177.84	177.44	177.12	176.72	176.40	176.00	175.68	175.28
150.0	181.36	181.84	182.32	181.84	181.36	180.88	180.40	180.00	179.52	179.04
152.5	184.72	184.80	184.96	184.80	184.72	184.56	184.40	184.32	184.16	184.00
155.0	190.48	190.56	190.72	190.56	190.48	190.32	190.24	190.08	190.00	189.84
157.5	196.16	196.32	196.48	196.32	196.16	196.00	195.84	195.76	195.60	195.44
160.0	201.52	201.68	201.92	201.68	201.52	201.28	201.12	200.88	200.72	200.48
162.5	206.16	206.40	206.64	206.40	206.16	206.00	205.76	205.52	205.28	205.12
165.0	210.40	210.64	210.88	210.64	210.40	210.16	209.92	209.60	209.36	209.12
167.5	214.00	214.24	214.56	214.24	214.00	213.68	213.44	213.12	212.88	212.56
170.0	216.88	217.12	217.44	217.12	216.88	216.56	216.32	216.00	215.76	215.44
172.5	219.36	219.68	220.00	219.68	219.36	219.04	218.72	218.32	218.00	217.68
175.0	220.88	221.20	221.52	221.20	220.88	220.56	220.24	220.00	219.68	219.36
177.5	222.16	222.56	222.88	222.56	222.16	221.84	221.52	221.12	220.80	220.48
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	18.00	19.04	20.32	21.68	22.96	24.32	25.60	26.96	28.24	29.60
95.0	20.96	21.68	23.12	24.56	26.00	27.44	28.96	30.40	31.84	33.28
97.5	25.36	25.92	27.44	28.88	30.40	31.84	33.36	34.80	36.32	37.76
100.0	30.88	31.28	32.72	34.24	35.68	37.20	38.64	40.16	41.60	43.12
102.5	36.96	37.28	38.72	40.08	41.52	42.96	44.32	45.76	47.20	48.56

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CANDELA TABULATION - (Cont.)

105.0	43.28	43.36	44.72	46.08	47.44	48.80	50.24	51.60	52.96	54.32
107.5	49.76	49.92	51.20	52.48	53.84	55.12	56.40	57.68	59.04	60.32
110.0	56.96	56.96	58.16	59.36	60.64	61.84	63.04	64.24	65.52	66.72
112.5	64.64	64.48	65.60	66.80	67.92	69.12	70.24	71.44	72.56	73.76
115.0	72.72	73.12	74.08	74.96	75.92	76.88	77.76	78.72	79.68	80.56
117.5	79.92	79.76	80.80	81.76	82.80	83.76	84.80	85.76	86.80	87.76
120.0	88.00	87.52	88.48	89.44	90.48	91.44	92.40	93.36	94.40	95.36
122.5	95.44	95.52	96.48	97.44	98.40	99.36	100.24	101.20	102.16	103.12
125.0	104.64	105.04	105.76	106.56	107.28	108.00	108.80	109.52	110.24	111.04
127.5	114.24	114.48	115.04	115.60	116.24	116.80	117.36	117.92	118.56	119.12
130.0	119.84	119.52	120.56	121.60	122.56	123.60	124.64	125.68	126.64	127.68
132.5	127.60	127.60	128.88	130.24	131.52	132.80	134.16	135.44	136.72	138.08
135.0	135.76	135.44	136.80	138.16	139.52	140.88	142.24	143.60	144.96	146.32
137.5	143.52	143.52	144.64	145.76	146.80	147.92	149.04	150.16	151.20	152.32
140.0	153.76	154.24	154.64	155.04	155.44	155.84	156.24	156.64	157.04	157.44
142.5	163.04	163.28	163.28	163.28	163.36	163.36	163.36	163.36	163.44	163.44
145.0	170.24	170.24	170.16	170.08	170.00	169.92	169.76	169.68	169.60	169.52
147.5	174.96	174.56	174.64	174.80	174.88	174.96	175.12	175.20	175.28	175.44
150.0	178.56	178.08	178.48	178.80	179.20	179.60	179.92	180.32	180.72	181.04
152.5	183.92	183.76	184.16	184.48	184.88	185.20	185.60	185.92	186.32	186.64
155.0	189.76	189.60	189.92	190.16	190.48	190.80	191.04	191.36	191.68	191.92
157.5	195.28	195.12	195.36	195.52	195.76	196.00	196.16	196.40	196.64	196.80
160.0	200.32	200.08	200.24	200.40	200.56	200.72	200.80	200.96	201.12	201.28
162.5	204.88	204.64	204.72	204.80	204.88	204.96	205.04	205.12	205.20	205.28
165.0	208.88	208.64	208.64	208.64	208.64	208.64	208.64	208.64	208.64	208.64
167.5	212.32	212.00	212.00	211.92	211.92	211.92	211.84	211.84	211.84	211.76
170.0	215.20	214.88	214.80	214.72	214.64	214.56	214.48	214.40	214.32	214.24
172.5	217.36	217.04	216.96	216.80	216.72	216.64	216.48	216.40	216.32	216.16
175.0	219.04	218.72	218.56	218.40	218.24	218.08	218.00	217.84	217.68	217.52
177.5	220.08	219.76	219.60	219.44	219.28	219.12	218.88	218.72	218.56	218.40
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	30.88	31.60	32.40	33.12	33.84	34.64	35.36	36.08	36.88	37.60
95.0	34.72	35.76	36.80	37.84	38.88	39.84	40.88	41.92	42.96	44.00
97.5	39.28	40.40	41.52	42.56	43.68	44.80	45.92	46.96	48.08	49.20
100.0	44.56	45.68	46.88	48.00	49.12	50.32	51.44	52.56	53.76	54.88
102.5	50.00	51.20	52.40	53.68	54.88	56.08	57.28	58.56	59.76	60.96
105.0	55.68	56.96	58.24	59.44	60.72	62.00	63.28	64.48	65.76	67.04
107.5	61.60	62.88	64.16	65.36	66.64	67.92	69.20	70.40	71.68	72.96
110.0	67.92	69.12	70.40	71.60	72.80	74.08	75.28	76.48	77.76	78.96
112.5	74.88	76.00	77.12	78.32	79.44	80.56	81.68	82.88	84.00	85.12
115.0	81.52	82.64	83.76	84.88	86.00	87.20	88.32	89.44	90.56	91.68
117.5	88.80	89.92	90.96	92.08	93.20	94.24	95.36	96.48	97.52	98.64
120.0	96.32	97.36	98.40	99.52	100.56	101.60	102.64	103.76	104.80	105.84
122.5	104.08	105.12	106.08	107.12	108.08	109.12	110.08	111.12	112.08	113.12
125.0	111.76	112.72	113.68	114.64	115.60	116.56	117.52	118.48	119.44	120.40
127.5	119.68	120.56	121.52	122.40	123.28	124.24	125.12	126.00	126.96	127.84
130.0	128.72	129.44	130.16	130.88	131.60	132.32	133.04	133.76	134.48	135.20
132.5	139.36	139.68	140.08	140.40	140.72	141.12	141.44	141.76	142.16	142.48
135.0	147.68	147.92	148.08	148.32	148.48	148.72	148.88	149.12	149.28	149.52
137.5	153.44	153.76	154.08	154.40	154.72	155.04	155.36	155.68	156.00	156.32
140.0	157.84	158.40	158.96	159.52	160.08	160.64	161.20	161.76	162.32	162.88

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CANDELA TABULATION - (Cont.)

142.5	163.44	164.08	164.72	165.36	166.00	166.56	167.20	167.84	168.48	169.12
145.0	169.44	170.08	170.72	171.28	171.92	172.56	173.20	173.76	174.40	175.04
147.5	175.52	176.08	176.64	177.20	177.76	178.40	178.96	179.52	180.08	180.64
150.0	181.44	181.92	182.48	182.96	183.52	184.00	184.56	185.04	185.60	186.08
152.5	187.04	187.44	187.92	188.32	188.72	189.20	189.60	190.00	190.48	190.88
155.0	192.24	192.64	192.96	193.36	193.68	194.08	194.40	194.80	195.12	195.52
157.5	197.04	197.36	197.68	197.92	198.24	198.56	198.88	199.12	199.44	199.76
160.0	201.44	201.68	201.92	202.16	202.40	202.64	202.88	203.12	203.36	203.60
162.5	205.36	205.52	205.76	205.92	206.08	206.32	206.48	206.64	206.88	207.04
165.0	208.64	208.80	208.96	209.12	209.28	209.36	209.52	209.68	209.84	210.00
167.5	211.76	211.84	211.92	212.00	212.08	212.24	212.32	212.40	212.48	212.56
170.0	214.16	214.24	214.24	214.32	214.40	214.40	214.48	214.56	214.56	214.64
172.5	216.08	216.08	216.16	216.16	216.24	216.24	216.32	216.32	216.40	216.40
175.0	217.36	217.36	217.36	217.44	217.44	217.44	217.44	217.52	217.52	217.52
177.5	218.24	218.24	218.24	218.24	218.24	218.24	218.24	218.24	218.24	218.24
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	37.76	37.92	38.00	38.16	38.32	38.48	38.56	38.72	38.88	38.72
95.0	44.40	44.72	45.12	45.52	45.84	46.24	46.64	46.96	47.36	46.96
97.5	49.60	50.00	50.40	50.80	51.28	51.68	52.08	52.48	52.88	52.48
100.0	55.28	55.76	56.16	56.56	57.04	57.44	57.84	58.32	58.72	58.32
102.5	61.36	61.76	62.24	62.64	63.04	63.44	63.92	64.32	64.72	64.32
105.0	67.44	67.84	68.24	68.64	69.04	69.44	69.84	70.24	70.64	70.24
107.5	73.36	73.76	74.16	74.56	74.88	75.28	75.68	76.08	76.48	76.08
110.0	79.36	79.76	80.08	80.48	80.88	81.28	81.60	82.00	82.40	82.00
112.5	85.52	85.92	86.24	86.64	87.04	87.44	87.76	88.16	88.56	88.16
115.0	92.08	92.48	92.88	93.28	93.60	94.00	94.40	94.80	95.20	94.80
117.5	98.96	99.36	99.68	100.08	100.40	100.80	101.12	101.52	101.84	101.52
120.0	106.16	106.56	106.88	107.20	107.60	107.92	108.24	108.64	108.96	108.64
122.5	113.44	113.76	114.08	114.40	114.80	115.12	115.44	115.76	116.08	115.76
125.0	120.72	121.04	121.36	121.68	121.92	122.24	122.56	122.88	123.20	122.88
127.5	128.16	128.40	128.72	128.96	129.28	129.52	129.84	130.08	130.40	130.08
130.0	135.52	135.76	136.08	136.32	136.64	136.88	137.20	137.44	137.76	137.44
132.5	142.72	143.04	143.28	143.52	143.84	144.08	144.32	144.64	144.88	144.64
135.0	149.76	150.00	150.24	150.48	150.72	150.96	151.20	151.44	151.68	151.44
137.5	156.56	156.80	157.04	157.28	157.44	157.68	157.92	158.16	158.40	158.16
140.0	163.12	163.36	163.60	163.84	164.00	164.24	164.48	164.72	164.96	164.72
142.5	169.36	169.52	169.76	170.00	170.16	170.40	170.64	170.80	171.04	170.80
145.0	175.28	175.52	175.68	175.92	176.16	176.40	176.56	176.80	177.04	176.80
147.5	180.88	181.04	181.28	181.44	181.68	181.84	182.08	182.24	182.48	182.24
150.0	186.24	186.40	186.56	186.72	186.96	187.12	187.28	187.44	187.60	187.44
152.5	191.04	191.28	191.44	191.68	191.84	192.08	192.24	192.48	192.64	192.48
155.0	195.68	195.84	196.00	196.16	196.40	196.56	196.72	196.88	197.04	196.88
157.5	199.92	200.08	200.24	200.40	200.48	200.64	200.80	200.96	201.12	200.96
160.0	203.76	203.84	204.00	204.08	204.24	204.32	204.48	204.56	204.72	204.56
162.5	207.12	207.20	207.28	207.36	207.52	207.60	207.68	207.76	207.84	207.76
165.0	210.08	210.16	210.24	210.32	210.40	210.48	210.56	210.64	210.72	210.64
167.5	212.64	212.72	212.80	212.88	212.88	212.96	213.04	213.12	213.20	213.12
170.0	214.72	214.80	214.88	214.96	215.04	215.12	215.20	215.28	215.36	215.28
172.5	216.40	216.48	216.48	216.56	216.56	216.64	216.64	216.72	216.72	216.72
175.0	217.60	217.60	217.68	217.68	217.76	217.76	217.84	217.84	217.92	217.84
177.5	218.24	218.24	218.32	218.32	218.32	218.32	218.40	218.40	218.40	218.40

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CANDELA TABULATION - (Cont.)

180.0 219.20 219.20 219.20 219.20 219.20 219.20 219.20 219.20 219.20 219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	38.56	38.48	38.32	38.16	38.00	37.92	37.76	37.60	36.88	36.08
95.0	46.64	46.24	45.84	45.52	45.12	44.72	44.40	44.00	42.96	41.92
97.5	52.08	51.68	51.28	50.80	50.40	50.00	49.60	49.20	48.08	46.96
100.0	57.84	57.44	57.04	56.56	56.16	55.76	55.28	54.88	53.76	52.56
102.5	63.92	63.44	63.04	62.64	62.24	61.76	61.36	60.96	59.76	58.56
105.0	69.84	69.44	69.04	68.64	68.24	67.84	67.44	67.04	65.76	64.48
107.5	75.68	75.28	74.88	74.56	74.16	73.76	73.36	72.96	71.68	70.40
110.0	81.60	81.28	80.88	80.48	80.08	79.76	79.36	78.96	77.76	76.48
112.5	87.76	87.44	87.04	86.64	86.24	85.92	85.52	85.12	84.00	82.88
115.0	94.40	94.00	93.60	93.28	92.88	92.48	92.08	91.68	90.56	89.44
117.5	101.12	100.80	100.40	100.08	99.68	99.36	98.96	98.64	97.52	96.48
120.0	108.24	107.92	107.60	107.20	106.88	106.56	106.16	105.84	104.80	103.76
122.5	115.44	115.12	114.80	114.40	114.08	113.76	113.44	113.12	112.08	111.12
125.0	122.56	122.24	121.92	121.68	121.36	121.04	120.72	120.40	119.44	118.48
127.5	129.84	129.52	129.28	128.96	128.72	128.40	128.16	127.84	126.96	126.00
130.0	137.20	136.88	136.64	136.32	136.08	135.76	135.52	135.20	134.48	133.76
132.5	144.32	144.08	143.84	143.52	143.28	143.04	142.72	142.48	142.16	141.76
135.0	151.20	150.96	150.72	150.48	150.24	150.00	149.76	149.52	149.28	149.12
137.5	157.92	157.68	157.44	157.28	157.04	156.80	156.56	156.32	156.00	155.68
140.0	164.48	164.24	164.00	163.84	163.60	163.36	163.12	162.88	162.32	161.76
142.5	170.64	170.40	170.16	170.00	169.76	169.52	169.36	169.12	168.48	167.84
145.0	176.56	176.40	176.16	175.92	175.68	175.52	175.28	175.04	174.40	173.76
147.5	182.08	181.84	181.68	181.44	181.28	181.04	180.88	180.64	180.08	179.52
150.0	187.28	187.12	186.96	186.72	186.56	186.40	186.24	186.08	185.60	185.04
152.5	192.24	192.08	191.84	191.68	191.44	191.28	191.04	190.88	190.48	190.00
155.0	196.72	196.56	196.40	196.16	196.00	195.84	195.68	195.52	195.12	194.80
157.5	200.80	200.64	200.48	200.40	200.24	200.08	199.92	199.76	199.44	199.12
160.0	204.48	204.32	204.24	204.08	204.00	203.84	203.76	203.60	203.36	203.12
162.5	207.68	207.60	207.52	207.36	207.28	207.20	207.12	207.04	206.88	206.64
165.0	210.56	210.48	210.40	210.32	210.24	210.16	210.08	210.00	209.84	209.68
167.5	213.04	212.96	212.88	212.88	212.80	212.72	212.64	212.56	212.48	212.40
170.0	215.20	215.12	215.04	214.96	214.88	214.80	214.72	214.64	214.56	214.56
172.5	216.64	216.64	216.56	216.56	216.48	216.48	216.40	216.40	216.40	216.32
175.0	217.84	217.76	217.76	217.68	217.68	217.60	217.60	217.52	217.52	217.52
177.5	218.40	218.32	218.32	218.32	218.32	218.24	218.24	218.24	218.24	218.24
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	35.36	34.64	33.84	33.12	32.40	31.60	30.88	29.60	28.24	26.96
95.0	40.88	39.84	38.88	37.84	36.80	35.76	34.72	33.28	31.84	30.40
97.5	45.92	44.80	43.68	42.56	41.52	40.40	39.28	37.76	36.32	34.80
100.0	51.44	50.32	49.12	48.00	46.88	45.68	44.56	43.12	41.60	40.16
102.5	57.28	56.08	54.88	53.68	52.40	51.20	50.00	48.56	47.20	45.76
105.0	63.28	62.00	60.72	59.44	58.24	56.96	55.68	54.32	52.96	51.60
107.5	69.20	67.92	66.64	65.36	64.16	62.88	61.60	60.32	59.04	57.68
110.0	75.28	74.08	72.80	71.60	70.40	69.12	67.92	66.72	65.52	64.24
112.5	81.68	80.56	79.44	78.32	77.12	76.00	74.88	73.76	72.56	71.44

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CANDELA TABULATION - (Cont.)

115.0	88.32	87.20	86.00	84.88	83.76	82.64	81.52	80.56	79.68	78.72
117.5	95.36	94.24	93.20	92.08	90.96	89.92	88.80	87.76	86.80	85.76
120.0	102.64	101.60	100.56	99.52	98.40	97.36	96.32	95.36	94.40	93.36
122.5	110.08	109.12	108.08	107.12	106.08	105.12	104.08	103.12	102.16	101.20
125.0	117.52	116.56	115.60	114.64	113.68	112.72	111.76	111.04	110.24	109.52
127.5	125.12	124.24	123.28	122.40	121.52	120.56	119.68	119.12	118.56	117.92
130.0	133.04	132.32	131.60	130.88	130.16	129.44	128.72	127.68	126.64	125.68
132.5	141.44	141.12	140.72	140.40	140.08	139.68	139.36	138.08	136.72	135.44
135.0	148.88	148.72	148.48	148.32	148.08	147.92	147.68	146.32	144.96	143.60
137.5	155.36	155.04	154.72	154.40	154.08	153.76	153.44	152.32	151.20	150.16
140.0	161.20	160.64	160.08	159.52	158.96	158.40	157.84	157.44	157.04	156.64
142.5	167.20	166.56	166.00	165.36	164.72	164.08	163.44	163.44	163.44	163.36
145.0	173.20	172.56	171.92	171.28	170.72	170.08	169.44	169.52	169.60	169.68
147.5	178.96	178.40	177.76	177.20	176.64	176.08	175.52	175.44	175.28	175.20
150.0	184.56	184.00	183.52	182.96	182.48	181.92	181.44	181.04	180.72	180.32
152.5	189.60	189.20	188.72	188.32	187.92	187.44	187.04	186.64	186.32	185.92
155.0	194.40	194.08	193.68	193.36	192.96	192.64	192.24	191.92	191.68	191.36
157.5	198.88	198.56	198.24	197.92	197.68	197.36	197.04	196.80	196.64	196.40
160.0	202.88	202.64	202.40	202.16	201.92	201.68	201.44	201.28	201.12	200.96
162.5	206.48	206.32	206.08	205.92	205.76	205.52	205.36	205.28	205.20	205.12
165.0	209.52	209.36	209.28	209.12	208.96	208.80	208.64	208.64	208.64	208.64
167.5	212.32	212.24	212.08	212.00	211.92	211.84	211.76	211.76	211.84	211.84
170.0	214.48	214.40	214.40	214.32	214.24	214.24	214.16	214.24	214.32	214.40
172.5	216.32	216.24	216.24	216.16	216.16	216.08	216.08	216.16	216.32	216.40
175.0	217.44	217.44	217.44	217.44	217.36	217.36	217.36	217.52	217.68	217.84
177.5	218.24	218.24	218.24	218.24	218.24	218.24	218.24	218.40	218.56	218.72
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

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>
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	25.60	24.32	22.96	21.68	20.32	19.04	18.00	17.04	16.00	14.96
95.0	28.96	27.44	26.00	24.56	23.12	21.68	20.96	20.16	19.44	18.64
97.5	33.36	31.84	30.40	28.88	27.44	25.92	25.36	24.80	24.24	23.68
100.0	38.64	37.20	35.68	34.24	32.72	31.28	30.88	30.48	30.08	29.68
102.5	44.32	42.96	41.52	40.08	38.72	37.28	36.96	36.64	36.32	36.00
105.0	50.24	48.80	47.44	46.08	44.72	43.36	43.28	43.28	43.20	43.12
107.5	56.40	55.12	53.84	52.48	51.20	49.92	49.76	49.60	49.52	49.36
110.0	63.04	61.84	60.64	59.36	58.16	56.96	56.96	56.96	56.88	56.88
112.5	70.24	69.12	67.92	66.80	65.60	64.48	64.64	64.80	64.96	65.12
115.0	77.76	76.88	75.92	74.96	74.08	73.12	72.72	72.32	71.92	71.52
117.5	84.80	83.76	82.80	81.76	80.80	79.76	79.92	80.00	80.16	80.24
120.0	92.40	91.44	90.48	89.44	88.48	87.52	88.00	88.40	88.88	89.36
122.5	100.24	99.36	98.40	97.44	96.48	95.52	95.44	95.28	95.20	95.12
125.0	108.80	108.00	107.28	106.56	105.76	105.04	104.64	104.24	103.84	103.44
127.5	117.36	116.80	116.24	115.60	115.04	114.48	114.24	114.00	113.68	113.44
130.0	124.64	123.60	122.56	121.60	120.56	119.52	119.84	120.08	120.40	120.72
132.5	134.16	132.80	131.52	130.24	128.88	127.60	127.60	127.68	127.68	127.68
135.0	142.24	140.88	139.52	138.16	136.80	135.44	135.76	136.08	136.40	136.72
137.5	149.04	147.92	146.80	145.76	144.64	143.52	143.52	143.52	143.52	143.52
140.0	156.24	155.84	155.44	155.04	154.64	154.24	153.76	153.20	152.72	152.16
142.5	163.36	163.36	163.36	163.28	163.28	163.28	163.04	162.72	162.48	162.24
145.0	169.76	169.92	170.00	170.08	170.16	170.24	170.24	170.32	170.32	170.32
147.5	175.12	174.96	174.88	174.80	174.64	174.56	174.96	175.28	175.68	176.00
150.0	179.92	179.60	179.20	178.80	178.48	178.08	178.56	179.04	179.52	180.00

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CANDELA TABULATION - (Cont.)

152.5	185.60	185.20	184.88	184.48	184.16	183.76	183.92	184.00	184.16	184.32
155.0	191.04	190.80	190.48	190.16	189.92	189.60	189.76	189.84	190.00	190.08
157.5	196.16	196.00	195.76	195.52	195.36	195.12	195.28	195.44	195.60	195.76
160.0	200.80	200.72	200.56	200.40	200.24	200.08	200.32	200.48	200.72	200.88
162.5	205.04	204.96	204.88	204.80	204.72	204.64	204.88	205.12	205.28	205.52
165.0	208.64	208.64	208.64	208.64	208.64	208.64	208.88	209.12	209.36	209.60
167.5	211.84	211.92	211.92	211.92	212.00	212.00	212.32	212.56	212.88	213.12
170.0	214.48	214.56	214.64	214.72	214.80	214.88	215.20	215.44	215.76	216.00
172.5	216.48	216.64	216.72	216.80	216.96	217.04	217.36	217.68	218.00	218.32
175.0	218.00	218.08	218.24	218.40	218.56	218.72	219.04	219.36	219.68	220.00
177.5	218.88	219.12	219.28	219.44	219.60	219.76	220.08	220.48	220.80	221.12
180.0	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20	219.20

Vert. Horizontal Angles
Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
90.0	0.00	0.00	0.00	0.00	0.00
92.5	14.00	12.96	11.92	10.96	9.92
95.0	17.92	17.12	16.40	15.60	14.88
97.5	23.04	22.48	21.92	21.36	20.80
100.0	29.20	28.80	28.40	28.00	27.60
102.5	35.68	35.36	35.04	34.72	34.40
105.0	43.12	43.04	42.96	42.96	42.88
107.5	49.20	49.04	48.96	48.80	48.64
110.0	56.88	56.88	56.80	56.80	56.80
112.5	65.36	65.52	65.68	65.84	66.00
115.0	71.12	70.72	70.32	69.92	69.52
117.5	80.40	80.48	80.64	80.72	80.88
120.0	89.76	90.24	90.72	91.12	91.60
122.5	94.96	94.88	94.80	94.64	94.56
125.0	102.96	102.56	102.16	101.76	101.36
127.5	113.20	112.96	112.64	112.40	112.16
130.0	120.96	121.28	121.60	121.84	122.16
132.5	127.76	127.76	127.76	127.84	127.84
135.0	137.04	137.36	137.68	138.00	138.32
137.5	143.44	143.44	143.44	143.44	143.44
140.0	151.68	151.12	150.64	150.08	149.60
142.5	161.92	161.68	161.44	161.12	160.88
145.0	170.40	170.40	170.40	170.48	170.48
147.5	176.40	176.72	177.12	177.44	177.84
150.0	180.40	180.88	181.36	181.84	182.32
152.5	184.40	184.56	184.72	184.80	184.96
155.0	190.24	190.32	190.48	190.56	190.72
157.5	195.84	196.00	196.16	196.32	196.48
160.0	201.12	201.28	201.52	201.68	201.92
162.5	205.76	206.00	206.16	206.40	206.64
165.0	209.92	210.16	210.40	210.64	210.88
167.5	213.44	213.68	214.00	214.24	214.56
170.0	216.32	216.56	216.88	217.12	217.44
172.5	218.72	219.04	219.36	219.68	220.00
175.0	220.24	220.56	220.88	221.20	221.52
177.5	221.52	221.84	222.16	222.56	222.88
180.0	219.20	219.20	219.20	219.20	219.20

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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	91.64	N.A.	13.90
90-120	173.39	N.A.	26.20
90-130	274.19	N.A.	41.50
90-150	492.61	N.A.	74.50
90-180	661.34	N.A.	100.00
110-180	569.70	N.A.	86.10
0-180	661.34	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	32.80
100-110	58.84
110-120	81.75
120-130	100.80
130-140	111.04
140-150	107.38
150-160	88.89
160-170	59.11
170-180	20.74

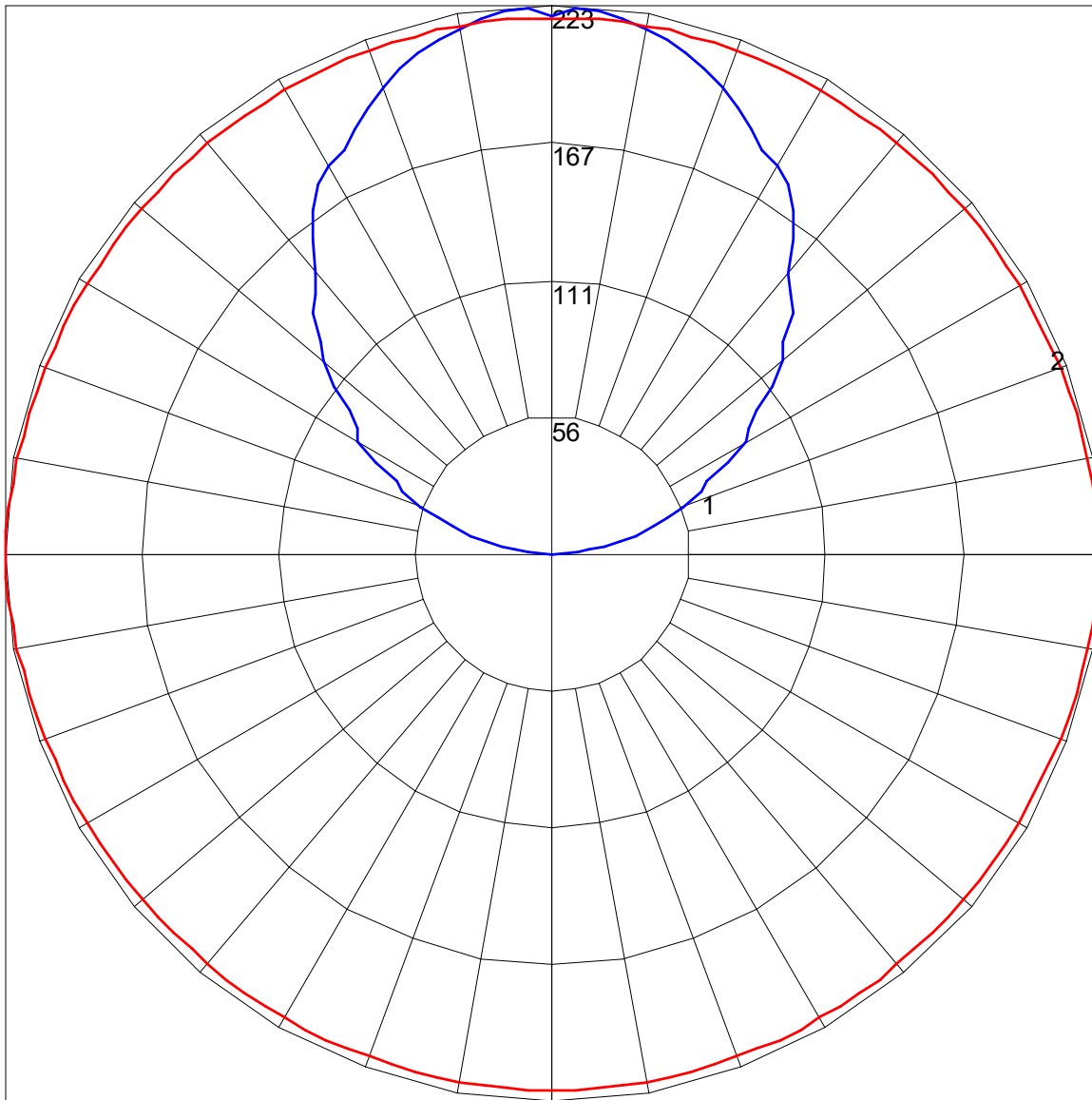
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	57	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	25	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 = 222.88 Located At Horizontal Angle = 0, Vertical Angle = 177.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)