



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48LFA30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1410211019-002-001
[TESTLAB]Intertek
[ISSUE DATE]10/27/2014
[MANUFACTURER]LAMAR LIGHTING CO., INC.
[LUMEN CATEGORY]MCNL48LFA30
[MORE]LOW POWER SETTING (OUTPUT 620MA)
[LUMINAIRE]SURFACE MOUNT
[LAMP]LED
[LAMP CATEGORY]NA. LUMINAIRE OUTPUT = 2476 LMS
[OTHER]120.03 VAC, 204.54 mA, 24.349 W, 0.9918 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2479
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	24.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.04
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5846	4112	1972
55	7029	4464	1572
65	8912	4960	1169
75	12916	5982	817
85	30336	9771	313

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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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	590.4	590.2	590.1	589.9	589.7	589.6	589.4	588.2	587.8	587.3
5.0	611.5	611.2	610.9	610.6	610.3	608.8	608.1	607.2	606.2	605.2
7.5	633.7	633.2	632.8	632.3	630.7	629.5	628.3	626.9	625.4	623.8
10.0	654.4	653.8	653.3	651.8	650.6	649.1	647.5	645.7	643.7	641.6
12.5	675.5	674.8	674.1	672.2	670.6	668.7	666.7	664.3	661.8	659.0
15.0	695.6	694.8	693.9	691.7	689.7	687.5	685.0	682.1	679.0	675.7
17.5	713.9	713.0	711.3	709.5	707.3	704.8	701.9	698.6	695.0	691.1
20.0	733.0	731.9	729.9	727.6	724.9	721.8	718.3	714.3	710.0	705.4
22.5	751.0	749.7	747.3	744.7	741.5	737.9	733.8	729.3	724.5	719.0
25.0	765.7	764.2	761.6	758.8	755.4	751.6	747.3	742.6	737.2	731.2
27.5	779.3	777.5	774.4	771.1	767.3	763.0	758.3	753.5	748.1	742.1
30.0	790.4	788.6	785.4	781.9	777.7	772.8	768.5	763.7	758.0	751.7
32.5	801.7	799.4	795.5	791.4	786.8	783.5	778.9	773.4	767.6	759.8
35.0	810.9	807.7	803.7	799.1	796.7	793.1	788.1	782.1	774.9	766.9
37.5	818.6	814.6	809.7	808.2	806.0	801.7	795.9	788.2	780.7	770.7
40.0	824.7	819.0	817.3	816.0	811.7	806.1	799.2	791.6	782.8	772.8
42.5	827.1	823.3	822.5	817.8	812.7	807.1	800.8	793.5	784.3	774.0
45.0	826.2	825.3	823.3	820.2	815.6	809.7	802.8	794.7	784.8	773.8
47.5	827.1	823.9	821.6	816.4	812.4	807.0	800.2	792.1	782.2	770.7
50.0	824.7	817.9	817.7	814.7	808.5	801.5	794.3	785.7	775.7	764.0
52.5	818.6	813.4	809.8	808.3	803.8	796.3	787.6	778.6	766.7	754.5
55.0	810.9	806.3	800.6	798.5	795.3	788.0	779.4	768.9	756.7	742.9
57.5	801.7	797.4	792.0	787.8	783.5	777.2	769.0	758.2	745.9	731.5
60.0	790.4	786.7	781.7	775.9	771.2	764.8	756.6	746.0	733.1	718.7
62.5	779.3	775.2	770.0	763.7	758.2	751.5	742.6	732.0	718.8	704.6
65.0	765.7	761.9	757.0	750.8	744.2	736.8	727.0	715.9	702.7	687.5
67.5	751.0	747.9	742.1	735.8	728.3	720.1	710.0	698.2	684.9	669.5
70.0	733.0	730.0	724.4	718.2	710.9	702.1	691.8	679.7	666.1	650.6
72.5	713.9	711.0	705.7	699.7	692.6	683.8	673.1	660.6	646.7	631.1
75.0	695.6	692.5	687.0	680.8	673.5	664.8	654.3	640.9	626.6	610.8
77.5	675.5	672.3	666.8	660.6	653.4	644.9	633.6	620.4	605.7	589.8
80.0	654.4	651.1	645.7	639.6	632.3	623.8	612.6	599.3	584.7	569.0
82.5	633.7	630.2	624.4	618.1	610.6	602.1	591.6	578.3	564.0	548.5
85.0	611.5	607.9	602.2	596.0	588.7	580.3	570.7	557.6	543.5	528.3
87.5	590.4	586.6	580.8	574.6	567.4	559.1	549.9	537.7	523.4	508.2
90.0	569.6	565.6	559.8	553.6	546.4	538.2	529.0	518.4	503.5	488.4
92.5	548.7	544.6	538.8	532.5	525.4	517.3	508.4	498.1	484.1	469.1
95.0	527.7	523.6	517.9	511.6	504.6	496.8	488.3	479.0	465.3	450.4
97.5	506.6	502.6	497.0	491.0	484.2	476.7	468.5	459.5	447.2	432.2
100.0	485.7	481.8	476.4	470.6	464.0	456.8	448.9	440.4	429.3	413.9
102.5	464.6	460.9	455.7	450.1	443.6	436.5	428.6	420.0	410.5	395.2
105.0	443.4	439.7	434.5	429.0	422.7	415.7	408.1	399.7	390.7	376.9
107.5	422.2	418.5	413.4	408.0	401.8	395.0	387.5	379.4	371.4	358.5
110.0	400.4	397.0	391.8	386.5	380.5	373.7	366.3	358.3	349.7	339.7
112.5	377.7	374.3	369.4	364.3	358.5	352.0	344.9	337.1	328.8	319.9
115.0	355.3	351.9	347.3	342.4	336.7	330.6	323.7	316.3	308.2	299.8
117.5	333.4	330.1	325.6	320.8	315.5	309.5	303.0	295.9	288.3	280.2
120.0	311.5	308.4	304.1	299.5	294.4	288.8	282.6	275.9	268.7	261.1
122.5	289.7	286.8	282.8	278.4	273.6	268.3	262.4	256.1	249.3	242.0
125.0	268.0	265.3	261.5	257.5	253.0	248.0	242.4	236.4	230.0	223.6
127.5	246.6	244.1	240.6	236.8	232.6	227.8	222.6	217.0	210.9	204.4
130.0	225.1	222.8	219.5	216.1	212.1	207.7	202.9	197.7	192.1	186.0
132.5	203.8	201.7	198.8	195.6	191.9	187.9	183.5	178.6	173.4	167.9

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CANDELA TABULATION - (Cont.)

135.0	182.6	180.8	178.2	175.3	172.0	168.4	164.3	159.8	155.0	149.8
137.5	162.0	160.4	158.0	155.4	152.4	149.0	145.4	141.1	136.7	131.9
140.0	141.8	140.4	139.0	135.9	133.2	130.2	126.8	123.0	119.0	114.6
142.5	122.8	121.5	120.2	117.4	115.0	112.3	109.2	105.9	102.3	98.3
145.0	105.0	103.8	102.7	100.2	98.0	95.7	93.0	90.0	86.8	83.4
147.5	88.3	87.3	86.3	84.2	82.4	80.3	78.1	75.6	72.9	70.1
150.0	73.4	72.6	71.8	70.0	68.5	66.8	64.9	62.8	60.6	58.2
152.5	60.3	59.6	58.9	57.5	56.3	54.8	53.2	51.5	49.7	47.7
155.0	49.0	48.4	47.8	46.7	45.6	44.5	43.2	41.8	40.3	38.7
157.5	39.2	38.7	38.3	37.3	36.5	35.5	34.5	33.4	32.2	30.9
160.0	30.7	30.3	29.9	29.2	28.6	27.9	27.1	26.2	25.3	24.3
162.5	23.4	23.1	22.9	22.3	21.8	21.3	20.7	20.1	19.4	18.6
165.0	17.5	17.3	17.1	16.7	16.3	15.9	15.5	15.0	14.5	13.9
167.5	12.5	12.3	12.2	12.0	11.7	11.4	11.1	10.8	10.4	10.0
170.0	8.5	8.4	8.3	8.2	7.9	7.7	7.5	7.3	7.1	6.8
172.5	5.2	5.1	5.1	5.0	4.8	4.7	4.6	4.5	4.3	4.2
175.0	2.6	2.6	2.6	2.5	2.5	2.4	2.3	2.3	2.2	2.1
177.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5
180.0	0.0	0.0	0.0	0.0	0.0	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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	586.7	586.2	585.6	584.9	584.3	583.6	582.8	582.1	581.3	580.5
5.0	604.1	602.9	601.7	600.4	599.0	597.5	596.0	594.4	592.8	591.2
7.5	622.0	620.2	618.1	616.0	613.8	611.5	609.1	606.6	604.0	601.5
10.0	639.3	636.8	634.2	631.4	628.5	625.4	622.1	618.7	615.2	611.6
12.5	656.0	652.8	649.4	645.8	642.1	638.1	634.0	629.8	625.4	620.9
15.0	672.1	668.2	664.1	659.6	655.0	650.2	645.2	640.1	634.6	629.1
17.5	687.0	682.4	677.5	672.3	666.9	661.5	655.3	649.1	642.8	636.2
20.0	700.5	695.2	689.6	683.8	677.5	670.6	663.4	656.7	648.3	640.4
22.5	713.2	707.0	700.4	693.4	685.9	678.2	670.0	661.4	652.6	643.5
25.0	724.9	718.4	710.3	702.2	693.8	684.8	675.5	665.7	655.7	646.1
27.5	735.4	727.6	719.2	710.2	700.5	691.4	679.8	668.9	657.5	645.9
30.0	744.0	735.9	726.6	716.7	706.1	694.7	682.9	670.5	657.9	644.9
32.5	751.8	742.5	732.6	721.4	709.9	697.2	684.2	670.5	656.6	642.1
35.0	757.2	747.1	735.7	723.8	711.0	697.5	683.3	668.4	653.3	637.4
37.5	760.6	749.2	737.0	724.2	710.3	695.8	680.5	664.4	648.9	630.7
40.0	762.0	749.3	736.1	722.2	707.3	691.8	675.4	658.1	640.4	621.9
42.5	762.5	749.3	735.3	720.5	704.5	687.7	670.2	651.3	631.7	611.5
45.0	761.5	747.8	733.0	717.4	700.5	682.7	664.0	644.4	623.5	602.2
47.5	757.9	744.0	728.3	711.6	694.1	675.3	655.5	634.8	613.2	590.8
50.0	750.7	736.4	721.2	703.4	684.8	665.4	644.6	622.8	600.4	577.3
52.5	741.2	726.2	709.9	692.4	673.4	652.9	631.1	608.7	585.3	561.6
55.0	728.9	713.8	697.4	679.1	659.6	638.8	616.2	592.7	568.3	543.9
57.5	715.7	699.4	682.3	663.9	643.9	622.1	599.4	575.6	550.9	525.6
60.0	702.7	684.7	665.5	646.5	625.8	603.9	580.9	556.8	532.2	507.0
62.5	687.4	669.3	649.3	627.4	606.1	583.9	560.8	536.9	512.4	487.4
65.0	670.6	652.2	631.7	609.7	585.8	562.6	539.7	516.0	491.7	467.0
67.5	652.5	633.7	613.2	591.0	567.1	542.0	517.7	494.3	470.4	446.0
70.0	633.5	614.5	594.0	571.5	547.9	523.1	497.2	472.1	448.5	424.7
72.5	614.0	594.7	573.8	551.8	529.7	504.2	478.5	451.8	426.2	403.0
75.0	593.3	574.3	554.0	532.3	509.4	485.2	460.7	433.4	406.4	381.3
77.5	572.6	555.1	534.5	513.1	490.2	466.3	441.3	415.5	389.0	362.4
80.0	552.3	534.7	515.3	493.8	471.4	448.0	423.2	397.9	372.2	346.1

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82.5	532.0	514.4	495.7	475.1	452.8	429.4	405.7	380.7	355.9	329.9
85.0	511.9	494.5	476.1	456.4	434.3	411.5	387.9	363.7	338.9	313.4
87.5	492.0	474.7	456.5	437.1	416.2	393.7	370.4	346.5	322.0	296.9
90.0	472.3	455.2	437.2	418.1	397.8	375.7	352.8	329.2	305.0	280.6
92.5	453.2	436.3	418.2	399.2	379.1	357.8	335.1	312.0	288.5	264.5
95.0	434.5	417.6	399.6	380.6	360.5	339.5	317.7	295.1	272.0	248.6
97.5	416.3	399.2	380.9	362.6	342.3	321.8	300.5	278.2	255.8	233.9
100.0	397.5	380.4	362.5	343.9	324.4	304.1	283.3	261.8	240.2	218.5
102.5	379.1	362.2	344.5	325.9	306.7	286.8	266.6	246.2	225.5	204.8
105.0	360.9	344.0	326.4	308.1	289.4	270.2	250.7	231.3	211.9	192.0
107.5	342.4	325.7	308.5	290.8	272.6	254.3	236.0	217.2	198.5	179.8
110.0	324.0	308.0	291.1	274.1	256.6	239.2	221.5	203.8	185.9	168.5
112.5	305.9	290.2	274.2	258.0	241.4	224.7	207.7	190.7	173.9	157.0
115.0	288.3	273.3	257.9	242.5	226.6	210.6	194.5	178.3	162.5	146.6
117.5	271.2	256.9	242.2	227.4	212.2	197.0	181.8	166.6	151.5	136.6
120.0	253.0	240.7	226.7	212.5	198.3	183.8	169.4	155.0	140.8	126.8
122.5	234.4	224.7	211.5	198.0	184.4	170.8	157.2	143.8	130.3	117.2
125.0	216.0	208.4	196.2	183.5	170.8	158.1	145.3	132.6	120.0	107.6
127.5	197.7	190.6	181.1	169.6	157.4	145.4	133.7	121.6	109.7	98.1
130.0	179.8	173.2	166.4	155.1	144.0	132.8	121.5	110.4	99.4	89.1
132.5	162.0	155.9	149.4	140.8	130.6	120.0	109.5	99.3	89.2	79.3
135.0	144.4	138.6	132.5	126.1	116.6	107.1	97.5	88.4	79.2	70.4
137.5	127.3	121.5	115.9	110.0	103.0	94.5	86.0	77.8	69.8	62.2
140.0	109.9	105.1	100.1	94.8	89.3	82.6	75.3	68.0	61.0	54.6
142.5	94.1	89.9	85.6	81.0	76.2	71.4	65.4	59.5	53.3	47.7
145.0	79.8	76.1	72.4	68.5	64.5	60.4	56.4	51.2	46.2	41.1
147.5	67.0	64.0	60.7	57.4	54.0	50.5	47.1	43.7	39.4	35.1
150.0	55.6	52.9	50.3	47.6	44.7	41.8	38.8	36.1	33.3	29.9
152.5	45.6	43.4	41.2	39.0	36.7	34.4	31.8	29.4	27.3	25.0
155.0	37.0	35.2	33.3	31.5	29.7	27.9	25.9	24.0	22.2	20.4
157.5	29.6	28.2	26.7	25.3	23.8	22.4	20.9	19.3	17.8	16.4
160.0	23.2	22.1	21.0	19.9	18.8	17.6	16.4	15.2	14.0	12.9
162.5	17.8	17.0	16.1	15.2	14.3	13.5	12.6	11.7	10.8	9.8
165.0	13.3	12.7	12.1	11.4	10.7	10.0	9.4	8.8	8.1	7.4
167.5	9.6	9.2	8.7	8.3	7.8	7.3	6.8	6.3	5.8	5.4
170.0	6.6	6.3	6.0	5.6	5.3	4.9	4.6	4.2	3.9	3.6
172.5	4.0	3.8	3.7	3.5	3.3	3.1	2.9	2.6	2.4	2.2
175.0	2.0	2.0	1.9	1.8	1.7	1.6	1.5	1.3	1.2	1.1
177.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3
180.0	0.0	0.0	0.0	0.0	0.0	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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	579.7	578.9	578.0	577.2	576.3	575.4	574.5	573.5	572.6	571.7
5.0	589.4	587.7	585.9	584.1	582.3	580.4	578.6	576.7	574.8	573.0
7.5	598.8	596.1	593.4	590.6	587.7	584.8	582.0	579.7	576.2	573.4
10.0	607.9	604.1	600.2	596.4	592.5	588.6	584.7	580.7	576.8	572.9
12.5	616.2	611.3	606.4	601.4	596.4	591.4	586.3	581.4	576.3	572.0
15.0	623.4	617.6	611.6	605.5	599.4	593.2	587.1	581.0	574.9	568.8
17.5	629.2	622.0	614.7	607.3	599.9	592.5	585.1	577.7	570.5	563.3
20.0	632.3	623.9	615.3	606.7	598.1	589.4	580.9	572.4	564.1	555.9
22.5	634.2	624.7	614.8	604.8	595.0	585.2	575.4	565.9	556.5	547.2
25.0	634.8	624.1	613.0	601.8	590.6	579.6	568.7	558.1	547.6	537.3
27.5	634.1	622.1	609.8	597.2	584.7	572.6	561.4	549.0	537.5	526.2

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	631.9	618.5	605.0	591.0	577.4	564.1	551.1	538.5	526.0	513.6
32.5	627.6	612.9	597.9	582.7	567.8	553.4	539.3	525.7	512.2	499.0
35.0	621.5	605.3	589.0	572.5	556.5	540.9	525.7	510.9	496.4	482.4
37.5	613.4	595.8	578.1	560.6	543.4	526.7	510.4	494.6	479.1	464.3
40.0	603.1	585.2	565.3	546.7	528.4	510.7	493.5	476.6	460.1	444.7
42.5	590.5	570.4	550.5	530.8	511.6	492.9	474.6	457.1	440.1	423.9
45.0	580.5	558.5	536.6	514.8	493.3	473.3	454.4	436.1	418.5	401.9
47.5	568.3	545.6	522.9	500.4	478.3	456.5	435.1	414.0	395.7	378.9
50.0	554.0	530.6	508.4	484.4	461.8	439.6	417.8	396.7	376.3	356.8
52.5	537.7	513.9	490.2	466.9	444.0	421.5	399.6	378.4	358.2	338.6
55.0	519.5	495.4	471.4	448.0	424.9	402.3	380.6	359.6	339.2	319.7
57.5	499.9	475.3	451.4	427.8	404.8	382.6	360.9	340.5	319.8	300.0
60.0	481.3	455.6	430.0	406.7	384.1	361.9	340.5	319.8	299.6	279.9
62.5	462.0	436.5	411.2	386.0	362.5	340.7	319.6	299.0	279.0	259.4
65.0	442.0	416.9	392.0	367.2	342.8	318.9	298.0	277.8	258.0	238.7
67.5	421.5	396.9	372.5	348.4	324.4	301.6	276.9	256.4	236.9	217.9
70.0	400.6	376.7	353.0	329.4	305.8	282.4	259.2	236.3	215.8	197.2
72.5	379.6	356.6	333.5	310.3	287.2	264.1	241.3	218.9	196.9	176.6
75.0	359.0	336.5	313.8	291.1	268.4	245.7	223.4	201.4	179.8	158.9
77.5	338.3	316.6	294.2	271.8	249.4	227.3	205.5	184.0	163.0	142.9
80.0	319.6	296.1	274.3	252.3	230.5	208.9	187.6	166.9	146.7	127.2
82.5	303.7	277.0	254.2	232.8	211.6	190.6	170.1	150.1	130.7	112.0
85.0	287.6	261.6	234.8	213.5	192.9	172.7	153.0	133.8	115.3	98.3
87.5	271.5	246.4	220.0	194.3	174.4	155.2	136.4	118.0	101.3	85.4
90.0	255.7	230.6	205.6	180.5	156.6	138.3	120.4	103.8	88.1	73.1
92.5	240.1	215.8	191.5	167.4	143.8	122.1	105.7	90.2	75.5	61.6
95.0	225.0	201.6	178.0	155.2	132.5	110.5	91.9	77.5	63.9	51.3
97.5	210.6	188.0	165.7	143.9	122.5	101.6	81.8	65.9	53.8	42.2
100.0	197.0	175.3	154.3	133.4	113.1	93.7	75.0	57.8	44.8	34.3
102.5	184.1	163.7	143.6	123.8	104.9	86.6	69.4	53.3	38.1	28.0
105.0	172.2	152.8	133.6	115.1	97.4	80.3	64.4	49.3	35.7	23.6
107.5	160.9	142.6	124.4	107.3	90.6	74.8	60.3	46.1	33.9	22.8
110.0	150.4	133.1	116.3	100.1	84.4	69.8	56.0	43.5	32.2	22.1
112.5	140.6	124.3	108.5	93.2	78.7	65.4	52.4	40.9	30.5	21.6
115.0	131.1	115.8	101.0	86.7	73.3	60.5	49.0	38.4	29.0	21.0
117.5	121.9	107.6	93.6	80.3	67.8	56.2	45.5	35.7	27.5	20.3
120.0	113.0	99.5	86.2	74.0	62.3	51.7	41.9	33.2	25.7	19.2
122.5	104.1	91.5	79.1	67.5	56.7	47.1	38.2	30.5	23.7	18.1
125.0	95.4	83.6	72.2	61.2	51.2	42.3	34.5	27.6	21.7	16.8
127.5	86.9	75.7	65.3	55.2	46.0	37.5	30.8	24.6	19.8	15.4
130.0	78.2	68.1	58.7	49.6	41.3	33.7	27.1	22.1	17.6	13.9
132.5	69.9	60.8	52.3	44.5	37.2	30.6	24.5	19.3	15.3	12.2
135.0	61.9	54.1	46.5	39.8	33.5	27.6	22.4	17.6	13.4	10.4
137.5	54.7	48.0	41.5	35.5	30.1	24.7	20.2	16.0	12.4	9.1
140.0	48.3	42.3	36.7	31.4	26.7	22.2	18.1	14.6	11.3	8.5
142.5	42.3	36.9	32.2	27.7	23.5	19.8	16.2	13.1	10.3	7.8
145.0	36.6	32.2	28.0	24.2	20.6	17.4	14.4	11.8	9.4	7.2
147.5	31.4	27.7	24.1	21.0	18.0	15.1	12.7	10.5	8.3	6.5
150.0	26.6	23.7	20.9	18.1	15.6	13.3	11.3	9.2	7.3	5.8
152.5	22.6	20.1	17.8	15.6	13.4	11.5	9.6	7.8	6.5	5.2
155.0	18.6	16.8	15.0	13.1	11.2	9.5	8.1	6.8	5.6	4.5
157.5	14.9	13.4	11.9	10.6	9.3	8.0	6.7	5.7	4.7	3.7
160.0	11.6	10.5	9.4	8.3	7.3	6.4	5.4	4.5	3.7	3.0
162.5	8.9	8.1	7.2	6.4	5.6	4.9	4.2	3.5	2.8	2.1
165.0	6.7	6.1	5.5	4.8	4.2	3.6	3.0	2.5	2.1	1.6
167.5	4.9	4.4	3.9	3.4	3.0	2.6	2.2	1.8	1.4	1.1

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CANDELA TABULATION - (Cont.)

170.0	3.3	3.0	2.7	2.4	2.0	1.7	1.4	1.2	1.0	0.8
172.5	2.0	1.8	1.6	1.4	1.3	1.1	0.9	0.8	0.6	0.4
175.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3
177.5	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles

Angles	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	570.8	569.8	568.9	568.0	567.0	566.1	565.6	564.3	563.4	562.5
5.0	571.1	569.2	567.3	565.4	563.5	561.7	559.8	558.0	556.2	554.4
7.5	570.5	567.6	564.8	561.9	559.1	556.3	553.6	550.8	548.1	545.5
10.0	569.0	565.2	561.4	557.6	553.8	550.1	546.4	542.7	539.2	535.7
12.5	566.5	561.7	556.9	552.1	547.4	542.8	538.1	533.7	529.2	525.0
15.0	562.9	557.1	551.4	545.9	540.1	534.5	529.0	524.1	518.5	513.5
17.5	556.3	549.6	542.8	536.4	529.9	523.6	518.4	511.8	506.2	500.8
20.0	547.8	540.0	532.8	524.8	517.5	510.8	503.5	496.9	490.5	484.6
22.5	538.2	529.3	520.6	512.2	504.0	496.1	488.4	482.0	474.1	467.5
25.0	527.2	517.3	507.8	498.5	489.5	480.7	472.3	464.3	456.7	449.4
27.5	515.1	504.3	493.9	483.7	473.8	465.3	455.2	446.6	438.3	430.4
30.0	501.6	490.1	478.8	467.7	457.0	446.7	437.2	427.8	418.9	410.5
32.5	486.4	474.4	462.3	450.6	439.3	428.5	418.1	408.1	398.6	389.6
35.0	468.9	455.9	443.3	431.3	419.7	408.6	397.8	387.3	377.2	367.6
37.5	450.0	436.2	423.1	410.6	398.5	386.9	375.7	365.0	354.8	344.8
40.0	429.8	415.5	401.9	388.9	376.4	364.4	352.8	341.7	331.0	321.2
42.5	408.3	393.8	379.8	366.5	353.6	341.2	329.2	317.7	307.1	296.9
45.0	386.2	371.7	357.1	343.3	330.1	317.3	305.0	293.6	282.7	272.3
47.5	363.1	348.0	333.4	319.4	305.9	292.8	280.6	268.9	257.9	247.7
50.0	339.2	323.9	309.2	294.9	281.1	268.1	255.7	244.0	233.1	222.9
52.5	319.6	301.0	284.2	269.8	256.0	242.9	230.6	219.1	209.0	198.6
55.0	300.5	281.6	263.2	245.3	230.5	217.6	205.6	194.2	183.9	174.5
57.5	280.7	261.9	243.5	225.5	208.2	192.4	180.5	169.7	159.9	150.9
60.0	260.7	241.9	223.5	205.8	188.8	172.2	156.6	145.5	136.4	128.3
62.5	240.3	221.6	203.6	186.2	170.3	153.4	138.3	124.8	113.6	106.3
65.0	219.8	201.6	183.8	166.7	150.4	135.1	120.4	107.3	94.9	85.6
67.5	199.5	181.5	164.1	147.7	132.0	117.9	103.8	91.3	79.7	69.5
70.0	179.1	161.6	145.0	129.1	114.5	100.5	88.1	76.3	65.7	56.4
72.5	159.0	142.3	126.3	111.0	97.4	84.9	73.1	62.2	52.5	43.9
75.0	139.5	123.4	107.9	94.5	81.9	70.1	58.9	48.9	40.1	32.7
77.5	123.3	104.9	91.4	78.9	67.2	55.7	45.4	36.3	28.7	23.0
80.0	108.4	91.4	75.8	64.2	52.6	42.1	32.7	25.0	19.4	14.9
82.5	95.0	79.1	64.3	49.4	38.7	29.2	21.3	15.8	11.6	8.8
85.0	82.4	67.5	52.7	38.7	25.6	17.8	12.2	8.3	5.9	5.3
87.5	70.4	55.9	42.2	29.2	17.8	8.7	5.1	3.0	3.2	3.0
90.0	58.9	45.4	32.7	21.3	12.2	5.1	0.2	1.1	1.5	1.5
92.5	48.6	36.1	24.9	15.7	8.3	3.0	1.1	0.0	0.5	0.6
95.0	39.3	28.2	19.1	11.5	5.9	3.2	1.5	0.5	0.0	0.2
97.5	31.3	22.2	14.6	8.6	5.3	3.0	1.5	0.7	0.2	0.0
100.0	25.3	17.5	11.2	7.3	4.4	2.4	1.3	0.6	0.2	0.0
102.5	20.3	13.7	9.2	5.9	3.4	1.9	1.0	0.4	0.1	0.0
105.0	16.1	11.0	7.1	4.3	2.5	1.4	0.6	0.2	0.0	0.0
107.5	13.2	8.3	5.2	3.1	1.7	0.9	0.3	0.1	0.0	0.0
110.0	13.7	6.5	3.6	2.1	1.0	0.4	0.1	0.0	0.0	0.0
112.5	14.0	7.7	3.0	1.2	0.4	0.1	0.0	0.0	0.0	0.0
115.0	14.2	8.8	4.5	1.2	0.1	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

117.5	14.3	9.4	5.5	2.9	0.8	0.0	0.0	0.0	0.0	0.0
120.0	14.0	9.6	6.3	3.8	2.0	0.7	0.0	0.0	0.0	0.0
122.5	13.4	9.7	6.7	4.5	2.8	1.5	0.6	0.1	0.0	0.0
125.0	12.7	9.5	6.7	4.7	3.1	1.9	1.0	0.5	0.1	0.0
127.5	11.9	8.9	6.5	4.6	3.1	2.0	1.1	0.6	0.3	0.1
130.0	10.7	8.0	5.9	4.2	2.8	1.8	1.0	0.5	0.2	0.1
132.5	9.4	7.1	5.2	3.6	2.4	1.5	0.8	0.4	0.1	0.0
135.0	8.0	6.0	4.3	2.9	1.9	1.1	0.4	0.2	0.0	0.0
137.5	6.5	4.7	3.4	2.2	1.3	0.6	0.3	0.1	0.0	0.0
140.0	6.0	3.9	2.4	1.5	0.7	0.3	0.1	0.0	0.0	0.0
142.5	5.7	3.8	2.3	1.0	0.4	0.1	0.0	0.0	0.0	0.0
145.0	5.4	3.7	2.4	1.4	0.7	0.3	0.1	0.0	0.0	0.0
147.5	4.8	3.5	2.4	1.7	1.1	0.7	0.4	0.2	0.1	0.0
150.0	4.5	3.3	2.5	1.8	1.3	0.8	0.5	0.2	0.1	0.1
152.5	4.1	3.2	2.4	1.7	1.2	0.8	0.5	0.2	0.1	0.0
155.0	3.6	2.7	2.1	1.4	1.0	0.6	0.3	0.2	0.1	0.0
157.5	3.0	2.3	1.6	1.1	0.7	0.3	0.2	0.1	0.0	0.0
160.0	2.3	1.7	1.2	0.8	0.4	0.3	0.1	0.0	0.0	0.0
162.5	1.6	1.2	0.7	0.4	0.3	0.1	0.0	0.0	0.0	0.0
165.0	1.2	0.8	0.6	0.4	0.2	0.1	0.1	0.0	0.0	0.0
167.5	0.9	0.7	0.5	0.3	0.1	0.1	0.1	0.0	0.0	0.0
170.0	0.6	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0
172.5	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0
175.0	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
177.5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	561.6	560.8	559.9	559.1	558.3	557.5	556.8	556.0	555.3	554.7
5.0	552.7	551.0	549.3	547.7	546.2	544.6	543.1	541.7	540.3	539.0
7.5	542.9	540.4	537.9	535.5	533.2	531.0	528.8	526.7	524.7	522.8
10.0	532.6	529.0	525.7	522.6	519.6	516.7	513.9	511.2	508.6	506.1
12.5	520.8	516.8	512.8	509.0	505.3	501.8	498.4	495.2	492.1	489.5
15.0	508.6	503.8	499.3	494.9	490.7	486.6	482.7	479.0	475.4	472.0
17.5	495.7	490.5	485.4	480.4	475.6	471.1	466.7	462.5	458.5	454.8
20.0	478.9	473.4	468.4	463.6	459.2	455.1	450.6	446.0	441.6	437.2
22.5	461.1	455.2	449.6	444.4	439.6	435.1	431.0	427.0	423.1	418.7
25.0	442.6	436.1	430.0	424.4	419.1	413.9	409.1	404.6	400.6	397.1
27.5	423.0	416.1	409.5	403.2	397.2	391.6	386.5	381.9	377.7	373.9
30.0	402.5	396.0	387.7	380.9	374.6	368.9	363.5	358.6	354.2	350.4
32.5	381.1	372.9	365.1	358.1	351.6	345.5	339.9	334.8	330.1	325.8
35.0	358.5	350.1	342.2	334.8	328.0	321.6	315.8	310.5	305.4	301.5
37.5	335.5	326.8	318.6	310.9	303.8	297.3	291.4	286.1	281.3	277.2
40.0	311.8	302.8	294.4	286.6	279.4	273.0	267.1	262.0	257.4	253.4
42.5	287.3	278.2	269.9	262.2	255.3	248.9	243.4	238.3	234.1	230.3
45.0	262.6	253.6	245.5	238.0	231.5	225.4	220.2	215.5	211.3	207.7
47.5	238.0	229.3	221.2	214.3	208.6	202.6	198.2	193.0	189.0	185.8
50.0	213.7	205.2	197.8	191.1	185.2	180.0	175.3	171.2	167.4	164.6
52.5	189.6	181.7	174.6	168.3	163.0	158.3	153.9	150.2	147.2	144.7
55.0	166.1	158.8	151.8	146.4	141.4	137.2	133.5	130.4	127.7	125.2
57.5	143.4	136.5	130.5	125.4	120.9	117.3	114.1	111.5	109.0	107.0
60.0	121.2	115.0	109.9	105.4	101.8	98.7	95.9	93.7	91.6	89.7
62.5	99.8	94.8	90.4	86.7	83.8	81.3	79.1	77.2	75.5	73.8

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CANDELA TABULATION - (Cont.)

65.0	80.1	75.8	72.1	69.4	67.0	65.2	63.7	62.1	60.9	59.1
67.5	61.5	58.3	55.4	53.4	51.8	50.7	49.6	48.8	47.8	46.7
70.0	48.0	41.8	40.2	39.2	38.4	37.9	37.4	37.0	36.3	35.7
72.5	36.7	30.9	26.5	26.5	26.6	26.7	26.9	27.0	26.8	26.5
75.0	26.8	22.0	18.2	15.8	16.5	17.4	18.2	18.7	19.0	19.0
77.5	18.4	14.8	12.2	9.7	8.2	10.0	11.2	12.2	12.9	13.2
80.0	11.7	9.8	7.8	5.8	4.3	4.2	5.7	7.2	8.1	8.8
82.5	7.5	6.1	4.6	3.4	2.4	1.5	2.0	3.6	4.7	5.6
85.0	4.5	3.5	2.6	1.9	1.1	0.6	0.2	1.1	2.5	3.3
87.5	2.5	2.0	1.4	0.9	0.4	0.1	0.0	0.0	0.9	1.7
90.0	1.3	1.0	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.6
92.5	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	554.0	553.4	552.8	552.3	551.7	551.3	550.8	550.4	550.0	549.7
5.0	537.8	536.6	535.4	534.3	533.4	532.4	531.6	530.8	530.1	529.4
7.5	521.0	519.3	518.3	516.1	514.6	513.3	512.1	510.9	509.9	508.9
10.0	503.8	501.6	499.5	497.5	495.7	494.0	492.4	491.0	489.7	488.5

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CANDELA TABULATION - (Cont.)

12.5	486.3	483.7	481.2	478.9	476.7	474.6	473.0	471.0	469.5	468.1
15.0	468.8	465.7	462.9	460.1	457.6	455.2	453.1	451.1	449.2	447.5
17.5	451.1	447.7	444.4	441.2	438.1	435.3	432.7	430.3	428.2	426.3
20.0	433.0	428.9	425.1	421.5	418.1	415.0	412.2	409.6	407.3	405.9
22.5	414.0	409.6	405.5	401.7	398.0	394.7	391.5	388.7	386.0	383.7
25.0	393.9	390.4	385.9	381.6	377.7	374.0	370.5	367.2	364.2	361.6
27.5	370.2	367.6	365.0	361.2	356.8	352.7	348.9	345.4	342.2	339.4
30.0	346.6	343.3	340.5	338.2	335.7	331.3	327.6	323.7	320.5	317.6
32.5	322.1	318.8	316.0	313.2	311.7	310.2	306.1	302.4	299.1	296.1
35.0	297.7	294.4	291.7	289.3	287.6	286.3	285.3	282.2	278.2	275.2
37.5	273.6	270.4	267.9	265.7	264.0	262.9	262.1	261.2	257.7	254.6
40.0	250.0	247.1	244.6	242.6	241.0	239.9	238.9	238.9	237.6	234.2
42.5	227.0	224.2	221.8	220.1	218.6	217.5	216.9	216.5	216.7	214.3
45.0	204.5	202.0	199.8	198.1	196.7	195.7	195.0	194.6	194.5	194.5
47.5	182.8	180.5	178.5	176.9	175.6	174.5	173.8	173.5	173.4	173.7
50.0	162.1	159.8	158.0	156.3	155.2	154.2	153.5	153.2	153.0	153.2
52.5	142.1	140.0	138.3	136.8	135.7	134.5	134.0	133.5	133.3	133.1
55.0	123.1	121.2	119.6	118.2	116.9	116.0	115.2	114.5	114.1	113.7
57.5	105.0	103.3	101.6	100.4	99.1	98.2	97.3	96.5	95.9	95.3
60.0	87.7	86.3	84.8	83.6	82.4	81.4	80.5	79.6	79.2	78.6
62.5	72.1	70.4	69.2	68.1	67.1	66.0	65.3	64.5	64.2	63.9
65.0	58.0	56.3	54.9	53.9	53.2	52.3	51.9	51.4	51.2	51.1
67.5	45.5	44.0	42.5	41.4	41.1	40.7	40.5	40.3	40.1	40.1
70.0	34.7	33.6	32.4	31.0	30.9	30.9	30.9	30.9	30.7	30.7
72.5	25.8	25.1	24.1	23.2	22.5	22.7	22.7	22.9	22.8	22.9
75.0	18.7	18.3	17.7	17.0	15.9	15.9	16.1	16.3	16.4	16.5
77.5	13.3	13.1	12.7	12.0	11.2	10.4	10.7	11.0	11.2	11.4
80.0	9.1	9.1	8.8	8.2	7.6	6.8	6.5	6.8	7.2	7.4
82.5	6.0	6.1	5.8	5.4	4.9	4.1	3.4	3.6	4.0	4.2
85.0	3.7	3.9	3.6	3.2	2.8	2.2	1.6	1.2	1.8	2.1
87.5	2.1	2.2	2.1	1.8	1.4	0.9	0.5	0.2	0.6	1.0
90.0	1.0	1.1	1.0	0.8	0.4	0.3	0.1	0.0	0.1	0.4
92.5	0.4	0.5	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.1
95.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	549.4	549.1	548.9	548.7	548.5	548.4	548.3	548.3	548.3	548.3
5.0	528.8	528.3	527.9	527.6	527.3	527.1	526.9	526.9	526.9	527.0
7.5	508.1	507.4	506.8	506.3	505.9	505.6	505.3	505.3	505.4	505.5
10.0	487.4	486.5	485.7	485.1	484.6	484.3	484.1	484.0	484.1	484.3
12.5	466.8	465.7	464.8	464.0	463.4	463.0	462.7	462.6	462.7	462.9
15.0	445.9	444.6	443.5	442.5	441.8	441.3	441.0	440.9	441.0	441.3
17.5	424.6	423.2	422.0	421.0	420.2	419.6	419.3	419.2	419.4	419.7
20.0	403.3	401.7	400.3	399.1	398.2	397.6	397.2	397.1	397.3	397.7
22.5	381.6	379.7	378.1	376.7	375.7	374.9	374.4	374.2	374.3	374.8
25.0	359.5	357.1	355.4	354.0	352.9	352.1	351.6	351.4	351.6	352.0
27.5	336.9	334.8	333.0	331.5	330.4	329.6	329.2	329.1	329.3	329.8
30.0	315.0	312.8	311.0	309.5	308.3	307.5	307.0	306.9	307.1	307.7
32.5	293.5	291.2	289.3	287.8	286.6	285.7	285.2	285.0	285.3	285.8
35.0	272.4	270.1	268.1	266.4	265.1	264.2	263.6	263.4	263.5	264.1
37.5	251.7	249.2	247.1	245.3	243.9	243.0	242.3	242.1	242.2	242.7
40.0	231.3	228.6	226.8	224.5	223.0	221.9	221.2	220.8	220.8	221.3
42.5	211.2	208.4	206.0	204.0	202.4	201.2	200.4	199.9	199.8	200.2
45.0	191.5	188.6	186.0	184.0	182.2	180.8	179.9	179.3	179.1	179.3
47.5	172.3	169.3	166.7	164.4	162.4	160.9	159.8	159.1	158.8	158.9
50.0	153.6	150.4	147.5	145.1	143.0	141.3	140.1	139.3	138.9	138.9
52.5	133.3	131.7	128.7	126.4	124.0	122.3	121.0	120.1	119.8	119.9
55.0	113.6	113.5	110.5	107.8	105.9	104.3	103.1	102.3	102.0	102.1
57.5	95.1	95.2	93.4	90.9	89.1	87.6	86.6	85.9	85.5	85.6
60.0	78.3	78.4	77.9	75.6	73.9	72.7	71.8	71.1	70.8	70.9
62.5	63.5	63.7	63.9	62.2	60.6	59.5	58.7	58.1	57.9	57.9
65.0	50.9	51.0	51.2	50.3	48.8	47.9	47.2	46.8	46.6	46.7
67.5	39.9	40.0	40.1	39.9	38.9	37.9	37.3	37.0	36.9	37.1
70.0	30.6	30.6	30.7	30.9	29.9	29.4	28.9	28.8	28.7	28.8
72.5	22.9	22.9	23.1	23.2	22.8	22.3	22.0	21.8	21.7	21.8
75.0	16.6	16.6	16.9	17.1	17.0	16.5	16.2	16.0	15.9	16.0
77.5	11.6	11.7	11.8	11.8	11.8	11.5	11.3	11.2	11.2	11.3
80.0	7.6	7.6	7.7	7.7	7.7	7.5	7.4	7.3	7.3	7.5
82.5	4.5	4.6	4.7	4.7	4.6	4.4	4.3	4.3	4.3	4.4
85.0	2.5	2.6	2.6	2.5	2.3	2.0	2.0	2.0	2.0	2.1
87.5	1.3	1.3	1.1	1.0	0.8	0.5	0.5	0.6	0.6	0.6
90.0	0.5	0.5	0.3	0.2	0.1	0.0	0.1	0.1	0.1	0.1
92.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	548.4	548.5	548.7	548.5	548.4	548.3	548.3	548.3	548.3	548.4
5.0	527.1	527.4	527.7	527.4	527.1	527.0	526.9	526.9	526.9	527.1
7.5	505.8	506.1	506.6	506.1	505.8	505.5	505.4	505.3	505.4	505.6
10.0	484.6	485.1	485.7	485.1	484.6	484.3	484.1	484.0	484.1	484.3
12.5	463.3	463.9	464.6	463.9	463.3	462.9	462.7	462.6	462.7	463.0
15.0	441.8	442.5	443.4	442.5	441.8	441.3	441.0	440.9	441.0	441.3
17.5	420.3	421.2	422.2	421.2	420.3	419.8	419.4	419.2	419.4	419.6
20.0	398.3	399.2	400.4	399.2	398.3	397.7	397.3	397.1	397.2	397.6
22.5	375.5	376.4	377.7	376.4	375.5	374.8	374.3	374.2	374.4	374.9
25.0	352.8	353.9	355.3	353.9	352.8	352.0	351.6	351.4	351.6	352.1
27.5	330.6	331.9	333.4	331.9	330.7	329.8	329.3	329.1	329.2	329.6
30.0	308.6	309.9	311.5	309.9	308.7	307.7	307.1	306.9	307.0	307.5
32.5	286.7	288.0	289.7	288.0	286.7	285.8	285.3	285.0	285.2	285.7
35.0	265.0	266.3	268.0	266.3	265.0	264.1	263.5	263.4	263.6	264.2
37.5	243.6	244.9	246.6	244.9	243.6	242.7	242.2	242.1	242.3	243.0
40.0	222.1	223.4	225.1	223.4	222.1	221.3	220.8	220.8	221.2	221.9
42.5	200.9	202.1	203.8	202.1	200.9	200.3	199.8	199.9	200.5	201.2
45.0	180.0	181.1	182.6	181.1	180.0	179.3	179.1	179.3	179.9	180.8

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48LFA30.IES

CANDELA TABULATION - (Cont.)

47.5	159.5	160.5	162.0	160.5	159.5	158.9	158.8	159.1	159.8	160.9
50.0	139.4	140.3	141.8	140.3	139.4	138.9	138.9	139.3	140.1	141.3
52.5	120.4	121.4	122.8	121.4	120.4	119.9	119.8	120.2	121.0	122.3
55.0	102.6	103.6	105.0	103.6	102.6	102.1	102.0	102.3	103.1	104.3
57.5	86.1	87.0	88.3	87.0	86.1	85.6	85.5	85.9	86.6	87.6
60.0	71.3	72.2	73.4	72.2	71.3	70.9	70.8	71.1	71.8	72.7
62.5	58.4	59.2	60.3	59.2	58.4	57.9	57.9	58.1	58.7	59.5
65.0	47.2	47.9	49.0	47.9	47.2	46.7	46.6	46.8	47.2	47.9
67.5	37.5	38.2	39.2	38.2	37.5	37.1	36.9	37.0	37.3	37.9
70.0	29.2	29.8	30.7	29.8	29.2	28.8	28.7	28.8	28.9	29.4
72.5	22.1	22.7	23.4	22.7	22.1	21.8	21.7	21.8	22.0	22.3
75.0	16.3	16.8	17.5	16.8	16.3	16.0	15.9	16.0	16.2	16.5
77.5	11.5	11.9	12.5	11.9	11.5	11.3	11.2	11.2	11.3	11.5
80.0	7.7	8.0	8.5	8.0	7.7	7.5	7.3	7.3	7.4	7.5
82.5	4.5	4.8	5.2	4.8	4.5	4.4	4.3	4.3	4.3	4.4
85.0	2.2	2.4	2.6	2.4	2.2	2.1	2.0	2.0	2.0	2.0
87.5	0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.5	0.5
90.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
135.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48LFA30.IES

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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	548.5	548.7	548.9	549.1	549.4	549.7	550.0	550.4	550.8	551.3
5.0	527.3	527.6	527.9	528.3	528.8	529.4	530.1	530.8	531.6	532.4
7.5	505.9	506.3	506.8	507.4	508.1	508.9	509.9	510.9	512.1	513.3
10.0	484.6	485.1	485.7	486.5	487.4	488.5	489.7	491.1	492.4	494.0
12.5	463.5	464.0	464.8	465.7	466.8	468.1	469.5	471.0	473.0	474.6
15.0	441.8	442.5	443.5	444.6	445.9	447.5	449.2	451.1	453.1	455.2
17.5	420.2	421.0	422.0	423.2	424.7	426.3	428.2	430.3	432.7	435.3
20.0	398.2	399.1	400.3	401.7	403.3	405.9	407.3	409.6	412.2	415.0
22.5	375.7	376.7	378.1	379.7	381.6	383.7	386.0	388.7	391.5	394.7
25.0	352.9	354.0	355.4	357.1	359.5	361.6	364.2	367.2	370.5	374.0
27.5	330.4	331.5	333.0	334.8	336.9	339.4	342.2	345.6	348.9	352.7
30.0	308.3	309.5	311.0	312.8	315.0	317.6	320.5	323.7	327.6	331.3
32.5	286.6	287.8	289.3	291.2	293.5	296.1	299.1	302.4	306.1	310.2
35.0	265.1	266.4	268.1	270.1	272.4	275.2	278.2	282.2	285.4	286.3
37.5	243.9	245.3	247.1	249.2	251.7	254.6	257.7	261.2	262.1	263.2
40.0	223.0	224.5	226.8	228.7	231.3	234.2	237.6	238.9	239.2	239.9
42.5	202.4	204.1	206.0	208.4	211.2	214.3	216.7	216.5	216.9	217.8
45.0	182.2	184.0	186.1	188.6	191.5	194.6	194.5	194.6	195.0	195.7
47.5	162.4	164.4	166.7	169.4	172.3	173.7	173.6	173.5	173.8	174.6
50.0	143.0	145.1	147.5	150.4	153.6	153.2	153.0	153.2	153.5	154.2
52.5	124.0	126.4	128.7	131.7	133.3	133.1	133.3	133.5	134.0	134.8
55.0	105.9	107.8	110.5	113.5	113.6	113.7	114.1	114.6	115.2	116.0
57.5	89.1	90.9	93.4	95.2	95.1	95.3	95.9	96.5	97.3	98.2
60.0	73.9	75.6	77.9	78.4	78.3	78.6	79.2	79.6	80.5	81.4
62.5	60.6	62.2	63.9	63.7	63.5	63.9	64.2	64.5	65.3	66.0
65.0	48.8	50.3	51.2	51.0	50.9	51.1	51.2	51.4	51.9	52.3
67.5	38.9	39.9	40.1	40.0	39.9	40.1	40.1	40.3	40.5	40.7
70.0	29.9	30.9	30.7	30.7	30.6	30.7	30.7	30.9	30.9	30.9
72.5	22.8	23.2	23.1	22.9	22.9	22.9	22.8	22.9	22.7	22.7
75.0	17.0	17.1	16.9	16.6	16.6	16.5	16.4	16.3	16.1	15.9
77.5	11.8	11.8	11.8	11.7	11.6	11.4	11.2	11.0	10.7	10.4
80.0	7.7	7.7	7.7	7.6	7.6	7.4	7.2	6.8	6.5	6.8
82.5	4.6	4.7	4.7	4.6	4.5	4.2	4.0	3.6	3.4	4.1
85.0	2.3	2.5	2.6	2.6	2.5	2.1	1.8	1.2	1.6	2.2
87.5	0.8	1.0	1.1	1.3	1.3	1.0	0.6	0.2	0.5	0.9
90.0	0.1	0.2	0.3	0.5	0.5	0.4	0.1	0.0	0.1	0.3
92.5	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles	Horizontal Angles									
	225.0	227.5	230.0	232.5	235.0	237.5	240.0	242.5	245.0	247.5
0.0	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	551.7	552.3	552.8	553.4	554.0	554.7	555.3	556.0	556.8	557.5
5.0	533.4	534.4	535.4	536.6	537.8	539.0	540.3	541.7	543.1	544.6
7.5	514.6	516.1	518.3	519.3	521.0	522.8	524.7	526.7	528.8	531.0
10.0	495.7	497.5	499.5	501.6	503.8	506.1	508.6	511.2	513.9	516.7
12.5	476.7	478.9	481.2	483.7	486.3	489.5	492.1	495.2	498.4	501.8
15.0	457.6	460.1	462.9	465.7	468.8	472.0	475.4	479.0	482.7	486.6
17.5	438.1	441.2	444.4	447.7	451.1	454.8	458.5	462.5	466.7	471.1
20.0	418.1	421.5	425.1	428.9	433.0	437.3	441.6	446.0	450.6	455.1
22.5	398.0	401.7	405.5	409.6	414.0	418.7	423.1	427.0	431.0	435.3
25.0	377.7	381.6	385.9	390.4	393.9	397.1	400.6	404.6	409.1	413.9
27.5	356.8	361.2	365.0	367.6	370.5	373.9	377.7	381.9	386.5	391.6
30.0	335.7	338.2	340.5	343.3	346.6	350.4	354.2	358.6	363.5	368.9
32.5	311.7	313.6	316.0	318.8	322.1	325.8	330.1	334.8	339.9	345.5
35.0	287.9	289.3	291.7	294.4	297.9	301.5	305.7	310.5	315.8	321.6
37.5	264.0	265.7	267.9	270.4	273.6	277.2	281.3	286.1	291.4	297.3
40.0	241.0	242.6	244.6	247.1	250.0	253.4	257.4	262.0	267.1	273.0
42.5	218.6	220.1	221.8	224.2	227.0	230.3	234.4	238.3	243.4	248.9
45.0	196.7	198.1	199.8	202.0	204.5	207.7	211.3	215.5	220.2	225.4
47.5	175.6	176.9	178.5	180.5	182.8	185.8	189.0	193.0	198.2	202.6
50.0	155.2	156.3	158.0	159.8	162.1	164.6	167.6	171.2	175.3	180.0
52.5	135.7	136.8	138.4	140.0	142.1	144.9	147.2	150.2	153.9	158.3
55.0	116.9	118.2	119.6	121.2	123.1	125.2	127.7	130.4	133.5	137.2
57.5	99.1	100.4	101.6	103.3	105.0	107.0	109.0	111.5	114.1	117.3
60.0	82.4	83.6	84.8	86.3	87.7	89.7	91.6	93.7	95.9	98.7
62.5	67.1	68.1	69.2	70.4	72.1	73.8	75.5	77.2	79.1	81.3
65.0	53.2	53.9	54.9	56.3	58.0	59.3	60.9	62.1	63.7	65.2
67.5	41.1	41.4	42.5	44.0	45.5	46.7	47.8	49.0	49.6	50.7
70.0	30.9	31.1	32.4	33.6	34.7	35.7	36.3	37.0	37.4	37.9
72.5	22.5	23.2	24.1	25.1	25.8	26.5	26.8	27.0	27.1	26.7
75.0	15.9	17.0	17.7	18.3	18.7	19.0	19.0	18.7	18.2	17.4
77.5	11.2	12.0	12.7	13.1	13.3	13.2	12.9	12.2	11.2	10.0

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

80.0	7.6	8.2	8.8	9.1	9.1	8.8	8.1	7.2	5.8	4.2
82.5	4.9	5.4	5.8	6.1	6.0	5.6	4.7	3.6	2.0	1.5
85.0	2.8	3.2	3.6	3.9	3.7	3.3	2.5	1.1	0.2	0.6
87.5	1.4	1.8	2.1	2.2	2.1	1.7	0.9	0.0	0.0	0.1
90.0	0.4	0.8	1.0	1.1	1.0	0.6	0.0	0.0	0.0	0.0
92.5	0.1	0.3	0.4	0.5	0.4	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	558.3	559.1	559.9	560.8	561.6	562.5	563.4	564.3	565.6	566.1
5.0	546.2	547.7	549.3	551.0	552.7	554.4	556.2	558.0	559.8	561.7
7.5	533.2	535.5	537.9	540.4	542.9	545.5	548.1	550.8	553.6	556.3
10.0	519.6	522.6	525.7	529.0	532.6	535.7	539.2	542.7	546.4	550.1
12.5	505.3	509.0	512.8	516.8	520.8	525.0	529.2	533.7	538.2	542.8
15.0	490.7	494.9	499.3	503.8	508.6	513.5	518.5	524.1	529.0	534.5
17.5	475.6	480.4	485.4	490.5	495.7	500.8	506.2	511.8	518.4	523.6
20.0	459.2	463.6	468.4	473.4	478.9	484.6	490.5	496.9	503.5	511.0
22.5	439.6	444.4	449.6	455.2	461.1	467.5	474.1	482.0	488.4	496.1
25.0	419.1	424.4	430.0	436.1	442.6	449.4	456.7	464.3	472.3	480.7

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CANDELA TABULATION - (Cont.)

27.5	397.2	403.2	409.5	416.1	423.0	430.4	438.4	446.6	455.2	465.3
30.0	374.6	380.9	387.7	396.0	402.5	410.5	418.9	427.8	437.2	446.9
32.5	351.6	358.1	365.1	372.9	381.1	389.6	398.6	408.1	418.1	428.5
35.0	328.0	334.8	342.2	350.1	358.5	367.6	377.2	387.3	397.8	408.6
37.5	303.8	311.1	318.6	326.8	335.5	344.8	354.8	365.0	375.7	386.9
40.0	279.4	286.6	294.4	302.8	311.8	321.2	331.0	341.7	352.8	364.4
42.5	255.3	262.2	269.9	278.2	287.3	296.9	307.4	317.7	329.2	341.2
45.0	231.5	238.0	245.5	253.6	262.6	272.3	282.7	293.6	305.0	317.3
47.5	208.6	214.3	221.2	229.3	238.0	247.7	257.9	268.9	280.6	292.8
50.0	185.2	191.1	197.8	205.2	213.7	222.9	233.1	244.0	255.7	268.1
52.5	163.0	168.3	174.6	181.7	189.6	198.6	209.0	219.1	230.6	242.9
55.0	141.4	146.4	152.1	158.8	166.1	174.5	183.9	194.2	205.6	217.9
57.5	120.9	125.4	130.5	136.5	143.4	150.9	159.9	169.7	180.5	192.4
60.0	101.8	105.4	109.9	115.0	121.2	128.3	136.4	145.5	156.6	172.2
62.5	83.8	86.7	90.4	94.8	99.8	106.6	113.6	124.8	138.3	153.4
65.0	67.0	69.4	72.1	75.8	80.1	85.6	94.9	107.3	120.4	135.1
67.5	51.8	53.4	55.4	58.3	61.5	69.5	79.7	91.3	103.8	117.9
70.0	38.4	39.2	40.2	41.8	48.0	56.4	65.7	76.3	88.1	100.5
72.5	26.6	26.5	26.5	30.9	36.7	43.9	52.5	62.2	73.1	84.9
75.0	16.5	15.8	18.2	22.0	26.9	32.7	40.1	49.0	58.9	70.1
77.5	8.2	9.7	12.2	14.8	18.4	23.0	28.7	36.3	45.4	55.7
80.0	4.3	5.8	7.8	9.8	11.7	14.9	19.4	25.0	32.7	42.1
82.5	2.4	3.4	4.6	6.1	7.5	8.8	11.6	15.8	21.3	29.2
85.0	1.1	1.9	2.6	3.5	4.5	5.3	5.9	8.3	12.2	17.8
87.5	0.4	0.9	1.4	2.0	2.5	3.0	3.2	3.0	5.1	8.7
90.0	0.1	0.3	0.6	1.0	1.3	1.5	1.5	1.1	0.2	5.1
92.5	0.0	0.1	0.2	0.4	0.6	0.6	0.5	0.0	1.1	3.0
95.0	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.5	1.5	3.2
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	1.5	3.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.3	2.4
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	1.9
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.4
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.9
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.5
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	1.9
127.5	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	1.1	2.0
130.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	1.0	1.8
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.8	1.5
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.1
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.7
150.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.5	0.8
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	0.8
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.6
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	567.0	568.0	568.9	569.8	570.8	571.7	572.6	573.5	574.5	575.4
5.0	563.5	565.4	567.3	569.2	571.1	573.0	574.8	576.7	578.6	580.4
7.5	559.1	561.9	564.8	567.6	570.5	573.4	576.2	579.7	582.0	584.9
10.0	553.8	557.6	561.4	565.2	569.0	572.9	576.8	580.7	584.7	588.6
12.5	547.4	552.1	556.9	561.7	566.5	572.0	576.3	581.4	586.4	591.4
15.0	540.1	545.9	551.4	557.1	562.9	568.8	574.9	581.0	587.1	593.2
17.5	529.9	536.4	542.9	549.6	556.3	563.3	570.5	577.7	585.1	592.5
20.0	517.5	524.8	532.8	540.0	547.8	555.9	564.1	572.4	580.9	589.4
22.5	504.0	512.2	520.6	529.3	538.2	547.3	556.5	565.9	575.4	585.2
25.0	489.5	498.5	507.8	517.3	527.2	537.3	547.6	558.1	568.7	579.6
27.5	473.9	483.7	493.9	504.3	515.1	526.2	537.6	549.0	561.4	572.6
30.0	457.0	467.7	478.8	490.1	501.6	513.6	526.0	538.5	551.1	564.1
32.5	439.3	450.6	462.5	474.4	486.4	499.0	512.2	525.7	539.3	553.4
35.0	419.7	431.3	443.3	455.9	468.9	482.4	496.4	510.9	525.7	540.9
37.5	398.5	410.8	423.1	436.2	450.3	464.3	479.1	494.6	510.4	526.7
40.0	376.4	388.9	401.9	415.5	429.8	444.7	460.3	476.6	493.5	510.7
42.5	353.6	366.5	379.8	393.8	408.3	423.9	440.1	457.1	474.7	492.9
45.0	330.1	343.3	357.1	371.7	386.2	402.1	418.5	436.1	454.4	473.3
47.5	305.9	319.4	333.4	348.0	363.1	378.9	395.7	414.0	435.1	456.5
50.0	281.1	294.9	309.2	323.9	339.2	356.8	376.3	396.7	417.8	439.6
52.5	256.0	269.8	284.2	301.0	319.6	338.6	358.2	378.4	399.6	421.5
55.0	230.5	245.3	263.2	281.6	300.5	319.7	339.3	359.6	380.6	402.3
57.5	208.2	225.5	243.5	261.9	280.7	300.0	319.8	340.5	360.9	382.6
60.0	188.8	205.8	223.5	241.9	260.7	279.9	299.6	319.8	340.5	361.9
62.5	170.3	186.2	203.6	221.7	240.3	259.4	279.0	299.0	319.6	340.7
65.0	150.5	166.7	183.8	201.6	219.8	238.7	258.0	277.8	298.0	318.9
67.5	132.0	147.7	164.1	181.5	199.5	217.9	236.9	256.4	276.9	301.6
70.0	114.5	129.1	145.0	161.6	179.1	197.2	215.8	236.3	259.2	282.4
72.5	97.4	111.0	126.3	142.3	159.0	176.6	196.9	218.9	241.3	264.1
75.0	81.9	94.5	107.9	123.4	139.5	158.9	179.8	201.4	223.4	245.7
77.5	67.2	78.9	91.4	104.9	123.3	142.9	163.0	184.0	205.5	227.3
80.0	52.6	64.2	75.8	91.4	108.4	127.2	146.7	166.9	187.6	208.9
82.5	38.7	49.4	64.3	79.1	95.0	112.0	130.7	150.1	170.1	190.6
85.0	25.6	38.7	52.7	67.5	82.4	98.3	115.3	133.8	153.0	172.7
87.5	17.8	29.2	42.2	55.9	70.4	85.4	101.3	118.0	136.4	155.2
90.0	12.2	21.3	32.7	45.4	58.9	73.1	88.1	103.8	120.4	138.3
92.5	8.3	15.7	24.9	36.1	48.5	61.6	75.5	90.2	105.7	122.1
95.0	5.9	11.5	19.1	28.2	39.3	51.3	63.9	77.5	91.9	110.5
97.5	5.3	8.6	14.6	22.2	31.3	42.2	53.8	65.9	81.8	101.6
100.0	4.4	7.3	11.2	17.5	25.3	34.3	44.8	57.8	74.8	93.7
102.5	3.4	5.9	9.2	13.7	20.3	28.0	38.1	53.3	69.4	86.6
105.0	2.5	4.3	7.1	11.0	16.1	23.6	35.7	49.3	64.4	80.3
107.5	1.7	3.1	5.2	8.3	13.2	22.8	33.9	46.1	60.0	74.8
110.0	1.0	2.1	3.6	6.5	13.7	22.1	32.2	43.5	56.0	69.8
112.5	0.4	1.2	3.0	7.7	14.0	21.6	30.5	40.9	52.4	65.1

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

115.0	0.1	1.2	4.5	8.8	14.2	21.0	29.0	38.4	49.0	60.5
117.5	0.8	2.8	5.5	9.4	14.3	20.3	27.5	35.7	45.5	56.2
120.0	2.0	3.8	6.3	9.6	14.0	19.2	25.7	33.2	41.9	51.7
122.5	2.8	4.5	6.7	9.7	13.4	18.1	23.7	30.5	38.2	47.1
125.0	3.1	4.7	6.7	9.5	12.6	16.8	21.7	27.6	34.5	42.3
127.5	3.1	4.6	6.5	8.9	11.9	15.4	19.8	24.6	30.8	37.5
130.0	2.8	4.2	5.9	8.0	10.7	13.9	17.6	22.1	27.1	33.7
132.5	2.4	3.6	5.2	7.1	9.4	12.2	15.3	19.3	24.5	30.6
135.0	1.9	2.9	4.3	6.0	8.0	10.4	13.4	17.6	22.4	27.6
137.5	1.3	2.2	3.4	4.7	6.5	9.1	12.4	16.0	20.2	24.7
140.0	0.7	1.5	2.4	3.9	6.0	8.5	11.3	14.6	18.1	22.2
142.5	0.4	1.0	2.3	3.8	5.7	7.8	10.3	13.1	16.2	19.8
145.0	0.7	1.4	2.4	3.7	5.4	7.2	9.4	11.8	14.4	17.4
147.5	1.1	1.7	2.4	3.5	4.8	6.5	8.3	10.5	12.7	15.1
150.0	1.3	1.8	2.5	3.3	4.5	5.8	7.3	9.2	11.3	13.3
152.5	1.2	1.7	2.4	3.2	4.1	5.2	6.5	7.8	9.6	11.5
155.0	1.0	1.4	2.1	2.7	3.6	4.5	5.6	6.8	8.1	9.5
157.5	0.7	1.1	1.6	2.3	3.0	3.7	4.7	5.7	6.7	8.0
160.0	0.4	0.8	1.2	1.7	2.3	3.0	3.7	4.5	5.4	6.4
162.5	0.3	0.4	0.7	1.2	1.6	2.1	2.8	3.5	4.2	4.9
165.0	0.2	0.4	0.6	0.8	1.2	1.6	2.1	2.5	3.0	3.6
167.5	0.1	0.3	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.6
170.0	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.7
172.5	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.1
175.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
177.5	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	576.3	577.2	578.0	578.9	579.7	580.5	581.4	582.1	582.8	583.6
5.0	582.3	584.1	585.9	587.7	589.4	591.2	592.8	594.4	596.0	597.5
7.5	587.7	590.6	593.4	596.1	598.8	601.5	604.0	606.6	609.2	611.5
10.0	592.5	596.4	600.2	604.1	607.9	611.6	615.2	618.7	622.1	625.4
12.5	596.4	601.4	606.4	611.3	616.2	620.9	625.4	629.8	634.0	638.1
15.0	599.4	605.5	611.6	617.6	623.4	629.1	634.6	640.1	645.2	650.2
17.5	599.9	607.3	614.7	622.0	629.2	636.2	642.8	649.1	655.3	661.6
20.0	598.1	606.7	615.3	623.9	632.3	640.4	648.3	656.7	663.4	670.6
22.5	595.0	604.9	614.8	624.7	634.2	643.5	652.6	661.4	670.0	678.2
25.0	590.6	601.8	613.0	624.1	634.8	646.1	655.7	665.7	675.5	684.8
27.5	584.7	597.2	609.8	622.1	634.1	645.9	657.5	668.9	679.8	691.4
30.0	577.4	591.1	605.0	618.5	631.9	644.9	657.9	670.5	682.9	694.7
32.5	567.8	582.7	597.9	612.9	627.6	642.1	656.6	670.5	684.2	697.2
35.0	556.5	572.5	589.0	605.3	621.5	637.4	653.3	668.4	683.3	697.5
37.5	543.4	560.6	578.1	595.8	613.4	630.7	648.9	664.4	680.5	695.8
40.0	528.4	546.7	565.3	585.3	603.1	621.9	640.4	658.1	675.4	691.8
42.5	511.6	531.0	550.5	570.4	590.5	611.5	631.7	651.3	670.2	687.7
45.0	493.3	514.8	536.6	558.5	580.5	602.2	623.5	644.4	664.0	682.7
47.5	478.3	500.4	522.9	545.6	568.3	590.8	613.2	634.8	655.5	675.3
50.0	461.8	484.4	508.4	530.6	554.0	577.3	600.4	622.8	644.6	665.4
52.5	444.0	466.9	490.2	513.9	537.7	561.6	585.3	608.7	631.1	652.9
55.0	424.9	448.0	471.4	495.4	519.5	543.9	568.3	592.7	616.2	638.8
57.5	404.8	427.8	451.4	475.3	499.9	525.6	550.9	575.6	599.4	622.1
60.0	384.1	406.7	430.0	455.6	481.3	507.0	532.2	556.8	580.9	603.9

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

62.5	362.5	386.0	411.2	436.5	462.0	487.4	512.4	536.9	560.8	583.9
65.0	342.8	367.2	392.0	416.9	442.0	467.0	491.7	516.0	539.7	562.6
67.5	324.4	348.4	372.5	396.9	421.5	446.0	470.4	494.3	517.7	542.0
70.0	305.8	329.4	353.0	376.7	400.6	424.7	448.5	472.1	497.2	523.1
72.5	287.2	310.3	333.4	356.6	379.6	403.0	426.2	451.8	478.5	504.2
75.0	268.4	291.1	313.8	336.5	359.0	381.3	406.4	433.4	460.7	485.2
77.5	249.4	271.8	294.2	316.6	338.3	362.4	389.0	415.5	441.3	466.3
80.0	230.5	252.3	274.3	296.1	319.6	346.1	372.2	397.9	423.2	448.0
82.5	211.6	232.8	254.2	277.0	303.7	329.7	355.6	380.7	405.4	429.3
85.0	192.9	213.5	234.8	261.3	287.6	313.4	338.9	363.7	387.9	411.5
87.5	174.4	194.3	220.0	246.4	271.5	296.9	322.0	346.5	370.4	393.7
90.0	156.6	180.5	205.6	230.6	255.7	280.6	305.0	329.2	352.8	375.7
92.5	143.8	167.4	191.5	215.8	240.1	264.5	288.5	312.0	335.1	357.8
95.0	132.5	155.2	178.0	201.6	225.0	248.6	272.0	295.1	317.7	339.5
97.5	122.5	143.9	165.7	188.0	210.6	233.9	255.8	278.2	300.5	321.8
100.0	113.1	133.4	154.3	175.3	197.0	218.5	240.2	261.8	283.3	304.1
102.5	104.9	123.7	143.6	163.7	184.1	204.8	225.5	246.2	266.6	286.8
105.0	97.4	115.1	133.6	152.8	171.9	192.0	211.9	231.3	250.7	270.2
107.5	90.6	107.3	124.4	142.6	160.9	179.8	198.5	217.2	235.8	254.3
110.0	84.4	100.1	116.3	133.1	150.4	168.1	185.9	203.8	221.5	239.2
112.5	78.7	93.2	108.5	124.3	140.6	157.0	173.9	190.7	207.7	224.7
115.0	73.3	86.4	101.0	115.8	131.1	146.6	162.5	178.3	194.5	210.6
117.5	67.8	80.3	93.6	107.6	121.9	136.6	151.5	166.6	181.8	197.0
120.0	62.3	74.0	86.2	99.5	113.0	126.8	140.8	155.0	169.4	183.8
122.5	56.7	67.5	79.1	91.5	104.1	117.2	130.3	143.8	157.2	170.8
125.0	51.2	61.2	72.2	83.6	95.4	107.6	120.0	132.6	145.3	157.9
127.5	46.0	55.0	65.3	75.7	86.8	98.1	109.7	121.3	133.7	145.4
130.0	41.2	49.6	58.7	68.1	78.2	89.1	99.4	110.4	121.5	132.8
132.5	37.2	44.5	52.3	60.8	69.9	79.3	89.2	99.3	109.5	120.0
135.0	33.5	39.8	46.5	54.1	61.9	70.4	79.2	88.4	97.5	107.1
137.5	30.0	35.5	41.5	48.0	54.7	62.2	69.8	77.6	86.0	94.5
140.0	26.7	31.4	36.7	42.3	48.3	54.6	61.0	68.0	75.1	82.6
142.5	23.5	27.7	32.2	36.9	42.3	47.7	53.3	59.3	65.4	71.4
145.0	20.5	24.2	28.0	32.2	36.6	41.1	46.0	51.2	56.4	60.4
147.5	18.0	21.0	24.1	27.7	31.4	35.0	39.4	43.7	47.1	50.5
150.0	15.6	18.1	20.9	23.7	26.6	29.9	33.3	36.1	38.8	41.8
152.5	13.4	15.6	17.8	20.1	22.6	25.0	27.3	29.4	31.8	34.3
155.0	11.2	13.1	15.0	16.8	18.6	20.4	22.2	24.0	25.9	27.9
157.5	9.3	10.6	11.9	13.4	14.9	16.4	17.8	19.3	20.9	22.4
160.0	7.3	8.3	9.4	10.5	11.6	12.9	14.0	15.2	16.4	17.6
162.5	5.6	6.4	7.2	8.1	8.9	9.8	10.8	11.7	12.6	13.5
165.0	4.2	4.8	5.5	6.1	6.7	7.4	8.1	8.8	9.4	10.0
167.5	3.0	3.4	3.9	4.4	4.9	5.4	5.8	6.3	6.8	7.3
170.0	2.0	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.6	4.9
172.5	1.3	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.9	3.1
175.0	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6
177.5	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
180.0	0.0	0.0	0.0	0.0	0.0	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	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6
2.5	584.3	584.9	585.6	586.2	586.7	587.3	587.8	588.2	589.4	589.6
5.0	599.0	600.4	601.7	602.9	604.1	605.2	606.2	607.2	608.1	608.8
7.5	613.8	616.0	618.1	620.2	622.0	623.8	625.4	626.9	628.3	629.5

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CANDELA TABULATION - (Cont.)

10.0	628.5	631.4	634.2	636.8	639.3	641.6	643.7	645.7	647.5	649.1
12.5	642.1	645.8	649.4	652.8	656.0	659.0	661.8	664.3	666.7	668.7
15.0	655.0	659.6	664.1	668.2	672.1	675.7	679.0	682.1	685.0	687.5
17.5	666.9	672.3	677.5	682.4	687.0	691.1	695.0	698.6	701.9	704.8
20.0	677.5	683.8	689.6	695.2	700.5	705.4	710.0	714.3	718.3	721.8
22.5	685.9	693.4	700.4	707.0	713.2	719.0	724.5	729.3	733.8	737.9
25.0	693.8	702.2	710.3	718.4	724.9	731.2	737.2	742.6	747.3	751.6
27.5	700.5	710.2	719.2	727.6	735.4	742.1	748.1	753.5	758.3	763.0
30.0	706.1	716.7	726.6	735.9	744.0	751.7	758.0	763.7	768.5	772.8
32.5	709.9	721.4	732.6	742.5	751.8	759.8	767.6	773.4	778.9	783.5
35.0	711.0	723.8	735.7	747.1	757.2	766.9	774.9	782.1	788.1	793.1
37.5	710.3	724.2	737.0	749.2	760.6	770.7	780.7	788.2	795.9	801.7
40.0	707.3	722.2	736.1	749.3	762.0	772.8	782.8	791.6	799.2	806.1
42.5	704.5	720.5	735.3	749.3	762.5	774.0	784.3	793.5	800.8	807.1
45.0	700.5	717.4	733.0	747.8	761.5	773.8	784.8	794.7	802.8	809.7
47.5	694.1	711.6	728.3	744.0	757.9	770.7	782.2	792.1	800.2	807.0
50.0	684.8	703.4	721.2	736.4	750.7	764.0	775.7	785.7	794.3	801.5
52.5	673.4	692.4	709.9	726.2	741.2	754.5	766.7	778.6	787.6	796.3
55.0	659.6	679.1	697.4	713.8	728.9	742.9	756.7	768.9	779.4	788.0
57.5	643.9	663.9	682.3	699.4	715.7	731.5	745.9	758.2	769.0	777.2
60.0	625.8	646.5	665.5	684.7	702.7	718.7	733.1	746.0	756.6	764.8
62.5	606.1	627.4	649.3	669.3	687.4	704.6	718.8	732.0	742.6	751.5
65.0	585.8	609.7	631.7	652.2	670.6	687.5	702.7	715.9	727.0	736.8
67.5	567.1	591.0	613.1	633.7	652.5	669.5	684.9	698.2	710.0	720.1
70.0	547.9	571.5	594.0	614.5	633.5	650.6	666.1	679.7	691.8	702.1
72.5	529.7	551.8	573.8	594.7	614.0	631.1	646.7	660.6	673.1	683.8
75.0	509.4	532.3	554.0	574.3	593.3	610.8	626.6	640.9	654.3	664.8
77.5	490.2	513.1	534.5	555.1	572.6	589.8	605.7	620.4	633.6	644.9
80.0	471.4	493.8	515.3	534.5	552.3	569.0	584.7	599.3	612.6	623.8
82.5	452.8	475.1	495.7	514.4	532.0	548.5	564.0	578.3	591.6	602.0
85.0	434.3	456.4	476.1	494.5	511.9	528.3	543.5	557.6	570.7	580.3
87.5	416.2	437.1	456.5	474.7	492.0	508.2	523.4	537.6	549.9	559.1
90.0	397.8	418.1	437.2	455.2	472.3	488.4	503.5	518.4	529.0	538.1
92.5	379.1	399.2	418.2	436.2	453.2	469.1	484.1	498.1	508.3	517.3
95.0	360.5	380.6	399.6	417.6	434.5	450.4	465.3	479.0	488.3	496.8
97.5	342.3	362.6	380.9	399.2	416.1	432.2	447.2	459.5	468.5	476.7
100.0	324.4	343.9	362.5	380.4	397.5	413.9	429.3	440.4	448.9	456.8
102.5	306.7	325.9	344.5	362.2	379.1	395.2	410.5	420.0	428.6	436.5
105.0	289.4	308.1	326.4	344.0	360.9	376.9	390.7	399.7	408.1	415.7
107.5	272.6	290.8	308.5	325.7	342.4	358.5	371.4	379.4	387.5	395.0
110.0	256.6	274.1	291.1	307.8	324.0	339.7	349.7	358.3	366.3	373.7
112.5	241.4	258.0	274.2	290.2	305.9	319.9	328.8	337.1	344.9	351.9
115.0	226.6	242.5	257.9	273.3	288.3	299.8	308.2	316.3	323.7	330.6
117.5	212.2	227.4	242.2	256.9	271.2	280.2	288.3	295.9	303.0	309.5
120.0	198.3	212.5	226.7	240.7	253.0	261.1	268.7	275.9	282.6	288.8
122.5	184.4	198.0	211.5	224.7	234.4	242.0	249.3	256.0	262.4	268.3
125.0	170.8	183.5	196.2	208.4	216.0	223.6	230.0	236.4	242.4	248.0
127.5	157.4	169.6	181.1	190.6	197.7	204.4	210.9	217.0	222.6	227.8
130.0	144.0	155.1	166.3	173.2	179.8	186.0	192.1	197.7	202.9	207.7
132.5	130.4	140.8	149.4	155.8	162.0	167.9	173.4	178.6	183.5	187.9
135.0	116.6	126.0	132.5	138.6	144.3	149.8	155.0	159.8	164.3	168.4
137.5	103.0	110.0	115.9	121.5	127.3	131.9	136.7	141.1	145.3	149.0
140.0	89.3	94.8	100.1	105.1	109.9	114.6	119.0	123.0	126.8	130.2
142.5	76.2	81.0	85.6	89.9	94.1	98.3	102.3	105.9	109.2	112.3
145.0	64.5	68.5	72.4	76.1	79.8	83.4	86.8	90.0	93.0	95.7
147.5	54.0	57.4	60.7	64.0	67.0	70.1	72.9	75.6	78.1	80.3

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CANDELA TABULATION - (Cont.)

150.0	44.7	47.6	50.3	52.9	55.6	58.2	60.6	62.8	64.9	66.8
152.5	36.7	39.0	41.2	43.4	45.6	47.7	49.7	51.5	53.2	54.8
155.0	29.7	31.5	33.3	35.2	37.0	38.7	40.3	41.8	43.2	44.5
157.5	23.8	25.3	26.7	28.2	29.6	30.9	32.2	33.4	34.5	35.5
160.0	18.8	19.9	21.0	22.1	23.2	24.3	25.3	26.2	27.1	27.9
162.5	14.3	15.2	16.1	17.0	17.8	18.6	19.4	20.1	20.7	21.3
165.0	10.7	11.4	12.1	12.7	13.3	13.9	14.5	15.0	15.5	15.9
167.5	7.8	8.3	8.7	9.2	9.6	10.0	10.4	10.8	11.1	11.4
170.0	5.3	5.6	6.0	6.3	6.6	6.8	7.1	7.3	7.5	7.7
172.5	3.3	3.5	3.7	3.8	4.0	4.2	4.3	4.5	4.6	4.7
175.0	1.7	1.8	1.9	2.0	2.0	2.1	2.2	2.3	2.3	2.4
177.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	569.6	569.6	569.6	569.6	569.6
2.5	589.7	589.9	590.1	590.2	590.4
5.0	610.3	610.6	610.9	611.2	611.5
7.5	630.7	632.3	632.8	633.2	633.7
10.0	650.6	651.8	653.3	653.8	654.4
12.5	670.6	672.2	674.1	674.8	675.5
15.0	689.7	691.7	694.0	694.8	695.6
17.5	707.3	709.5	711.3	713.0	713.9
20.0	724.9	727.6	729.9	731.9	733.0
22.5	741.5	744.7	747.3	749.7	751.0
25.0	755.4	758.8	761.6	764.2	765.7
27.5	767.3	771.1	774.4	777.5	779.3
30.0	777.7	781.9	785.4	788.6	790.4
32.5	786.8	791.4	795.5	799.4	801.7
35.0	796.7	799.1	803.7	807.7	810.9
37.5	806.0	808.2	809.7	814.6	818.6
40.0	811.7	816.0	817.3	819.0	824.7
42.5	812.7	817.8	822.5	823.3	827.1
45.0	815.6	820.2	823.3	825.3	826.2
47.5	812.4	816.4	821.6	823.9	827.1
50.0	808.5	814.7	817.7	817.9	824.7
52.5	803.8	808.3	809.8	813.3	818.6
55.0	795.3	798.5	800.6	806.3	810.9
57.5	783.5	787.8	792.0	797.4	801.7
60.0	771.2	775.9	781.7	786.7	790.4
62.5	758.2	763.7	770.0	775.2	779.3
65.0	744.2	750.8	757.0	761.9	765.7
67.5	728.3	735.8	742.1	747.9	751.0
70.0	710.9	718.2	724.4	730.0	733.0
72.5	692.6	699.7	705.7	711.0	713.9
75.0	673.5	680.8	687.0	692.5	695.6
77.5	653.4	660.6	666.8	672.3	675.5
80.0	632.3	639.6	645.7	651.1	654.4
82.5	610.6	618.1	624.4	630.2	633.7
85.0	588.7	596.0	602.2	607.9	611.5
87.5	567.4	574.6	580.8	586.6	590.4
90.0	546.4	553.6	559.8	565.6	569.6
92.5	525.4	532.5	538.8	544.6	548.7
95.0	504.6	511.6	517.9	523.6	527.7

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

97.5	484.1	491.0	497.0	502.6	506.6
100.0	464.0	470.6	476.4	481.8	485.7
102.5	443.6	450.1	455.7	460.9	464.6
105.0	422.7	429.0	434.5	439.7	443.4
107.5	401.8	408.0	413.4	418.5	422.2
110.0	380.5	386.5	391.8	396.9	400.4
112.5	358.4	364.3	369.4	374.3	377.7
115.0	336.7	342.4	347.3	351.8	355.3
117.5	315.5	320.8	325.6	330.1	333.4
120.0	294.4	299.5	304.1	308.4	311.5
122.5	273.6	278.4	282.8	286.8	289.7
125.0	253.0	257.5	261.5	265.3	268.0
127.5	232.6	236.8	240.6	244.1	246.6
130.0	212.1	216.1	219.5	222.8	225.1
132.5	191.9	195.6	198.8	201.7	203.8
135.0	172.0	175.3	178.2	180.8	182.6
137.5	152.4	155.4	158.0	160.4	162.0
140.0	133.2	135.9	139.0	140.4	141.8
142.5	115.0	117.4	120.2	121.5	122.8
145.0	98.0	100.2	102.7	103.8	105.0
147.5	82.4	84.2	86.3	87.3	88.3
150.0	68.5	70.0	71.7	72.6	73.4
152.5	56.3	57.5	58.9	59.6	60.3
155.0	45.6	46.7	47.8	48.4	49.0
157.5	36.5	37.3	38.3	38.7	39.2
160.0	28.6	29.2	29.9	30.3	30.7
162.5	21.8	22.3	22.9	23.1	23.4
165.0	16.3	16.7	17.1	17.3	17.5
167.5	11.6	12.0	12.2	12.3	12.5
170.0	7.9	8.2	8.3	8.4	8.5
172.5	4.8	5.0	5.1	5.1	5.2
175.0	2.5	2.5	2.6	2.6	2.6
177.5	0.6	0.6	0.6	0.6	0.6
180.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	208.07	N.A.	8.40
0-30	445.66	N.A.	18.00
0-40	738.19	N.A.	29.80
0-60	1353.3	N.A.	54.60
0-80	1842.95	N.A.	74.30
0-90	2024.27	N.A.	81.70
10-90	1970.68	N.A.	79.50
20-40	530.12	N.A.	21.40
20-50	843.59	N.A.	34.00
40-70	881.68	N.A.	35.60
60-80	489.65	N.A.	19.80
70-80	223.08	N.A.	9.00
80-90	181.32	N.A.	7.30
90-110	258.58	N.A.	10.40
90-120	342.24	N.A.	13.80
90-130	398.95	N.A.	16.10
90-150	447.55	N.A.	18.10
90-180	454.53	N.A.	18.30
110-180	195.95	N.A.	7.90
0-180	2478.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.59
10-20	154.48
20-30	237.60
30-40	292.53
40-50	313.47
50-60	301.65
60-70	266.57
70-80	223.08
80-90	181.32
90-100	145.31
100-110	113.27
110-120	83.66
120-130	56.71
130-140	33.07
140-150	15.52
150-160	5.58
160-170	1.30
170-180	0.10

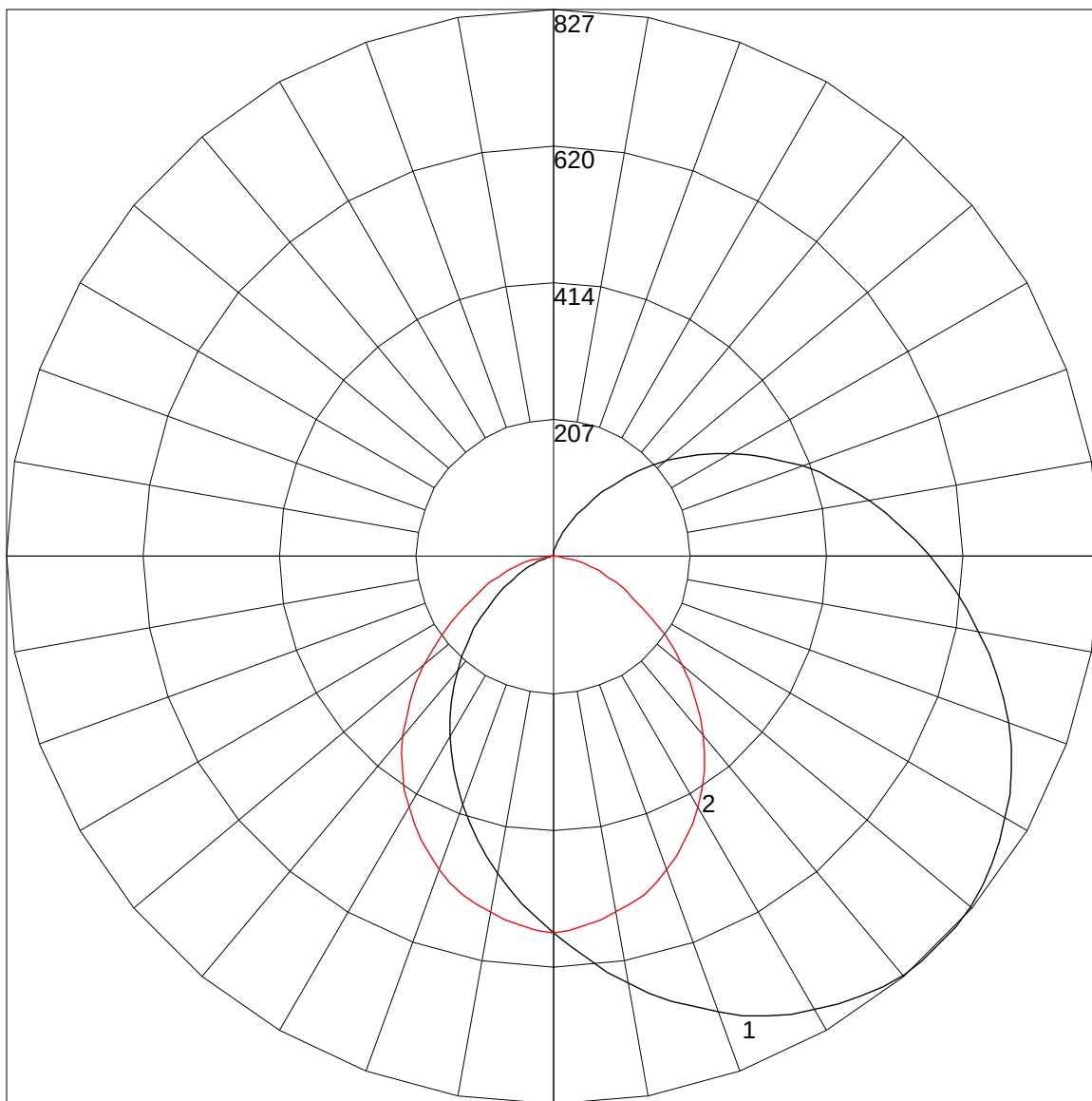
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48LFA30.IES

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	102	96	91	86	97	92	87	83	84	80	77	77	74	71	70	68	66	62
2	92	82	74	68	87	79	72	66	72	66	61	66	61	57	60	57	53	50
3	83	71	63	55	79	68	60	54	63	56	50	58	52	47	53	48	44	41
4	76	63	54	46	72	60	52	45	55	48	42	51	45	40	47	42	37	35
5	69	56	46	39	66	54	45	38	49	42	36	45	39	34	42	36	32	30
6	64	50	41	34	61	48	40	33	44	37	32	41	35	30	38	32	28	26
7	59	45	36	30	56	43	35	29	40	33	28	37	31	26	34	29	25	22
8	55	41	32	26	52	40	31	26	37	30	25	34	28	23	32	26	22	20
9	51	38	29	24	49	36	28	23	34	27	22	31	25	21	29	24	20	18
10	48	35	27	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

POLAR GRAPH



Maximum Candela = 827.1 Located At Horizontal Angle = 0, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)