



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2430-XX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 11890707.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 8/15/2017
 [MANUFAC] Lamar Lighting Co Inc
 [LUMCAT] SSLED2430-XX
 [LUMINAIRE] White formed steel housing, frosted plastic lens enclosure
 [LAMP] 56 white LEDs
 [BALLAST] One Espen VPL50-xxx-MVHDA-PD-2C driver
 [OTHER] 24.8 C, 120.072 V, 0.121493 A, 14.4011 W, 0.987198 PF, 59.9994
 [MORE] Hz
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1474
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	14.4011
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16738	13350	13094
55	15889	12105	12156
65	14334	10812	11324
75	11429	9657	10629
85	4881	8506	10092

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	421.90	421.90	421.90	421.90	421.90	421.90	421.90	421.90	421.90	421.90
0.5	419.20	424.20	421.70	419.30	419.70	420.80	424.10	426.50	419.00	424.10
1.0	419.20	424.20	421.70	419.20	419.80	420.90	424.30	426.60	419.00	424.00
1.5	419.10	424.10	421.60	419.20	419.80	421.00	424.30	426.80	418.80	424.00
2.0	419.00	424.10	421.60	419.10	419.70	421.10	424.40	426.80	418.70	423.80
2.5	418.90	424.00	421.40	419.00	419.80	421.00	424.40	426.80	418.40	423.60
3.0	418.80	423.80	421.20	419.00	419.80	421.10	424.40	426.70	418.20	423.40
3.5	418.60	423.60	421.20	418.90	419.70	421.00	424.30	426.70	417.90	423.20
4.0	418.40	423.40	421.00	418.70	419.70	421.00	424.20	426.60	417.60	422.90
4.5	418.20	423.10	420.70	418.50	419.50	420.90	424.10	426.40	417.30	422.60
5.0	417.80	422.80	420.50	418.40	419.50	420.80	424.00	426.20	416.90	422.40
5.5	417.50	422.40	420.10	418.20	419.30	420.60	423.70	425.90	416.60	421.90
6.0	417.20	422.10	419.80	417.80	419.00	420.40	423.50	425.80	416.20	421.60
6.5	416.70	421.60	419.40	417.50	418.80	420.10	423.10	425.40	415.70	421.20
7.0	416.30	421.20	419.00	417.20	418.50	419.80	422.90	425.00	415.30	420.80
7.5	415.80	420.70	418.60	416.80	418.10	419.60	422.50	424.60	414.70	420.30
8.0	415.30	420.20	418.10	416.40	417.80	419.20	422.10	424.20	414.20	419.80
8.5	414.70	419.50	417.50	415.90	417.40	418.90	421.70	423.80	413.60	419.20
9.0	414.10	418.90	417.00	415.50	417.00	418.40	421.20	423.10	413.00	418.60
9.5	413.40	418.30	416.30	415.00	416.60	417.90	420.70	422.60	412.30	418.00
10.0	412.70	417.60	415.70	414.50	416.10	417.50	420.20	422.00	411.60	417.30
10.5	412.00	416.90	415.10	414.00	415.60	417.00	419.60	421.30	410.80	416.60
11.0	411.20	416.10	414.40	413.40	415.10	416.50	418.90	420.60	410.00	415.80
11.5	410.40	415.30	413.70	412.80	414.60	415.90	418.30	419.90	409.10	415.00
12.0	409.50	414.50	413.00	412.20	414.00	415.30	417.50	419.10	408.30	414.20
12.5	408.60	413.50	412.20	411.50	413.40	414.70	416.90	418.30	407.30	413.20
13.0	407.70	412.60	411.50	410.90	412.80	414.00	416.00	417.40	406.40	412.20
13.5	406.60	411.70	410.60	410.20	412.10	413.30	415.20	416.50	405.30	411.20
14.0	405.60	410.60	409.70	409.40	411.40	412.40	414.30	415.60	404.30	410.10
14.5	404.50	409.60	408.80	408.60	410.60	411.70	413.40	414.60	403.10	409.00
15.0	403.40	408.40	407.80	407.80	409.80	410.80	412.40	413.60	402.00	407.90
15.5	402.20	407.30	406.80	406.90	408.90	410.00	411.40	412.50	400.80	406.70
16.0	401.00	406.10	405.70	405.90	408.00	409.00	410.40	411.40	399.50	405.50
16.5	399.80	404.90	404.60	404.90	407.00	407.90	409.30	410.30	398.20	404.10
17.0	398.50	403.60	403.40	403.90	406.00	406.90	408.20	409.10	396.80	402.80
17.5	397.20	402.30	402.20	402.80	405.00	405.90	407.00	407.90	395.30	401.50
18.0	395.80	400.80	400.90	401.60	403.90	404.70	405.90	406.70	393.90	400.10
18.5	394.40	399.40	399.60	400.40	402.90	403.70	404.70	405.40	392.40	398.60
19.0	393.00	397.90	398.20	399.20	401.80	402.60	403.50	404.10	390.80	397.30
19.5	391.50	396.30	396.80	398.00	400.60	401.40	402.20	402.70	389.20	395.70
20.0	389.90	394.80	395.30	396.80	399.50	400.20	400.90	401.30	387.60	394.20
20.5	388.40	393.20	393.90	395.50	398.30	399.00	399.60	399.90	385.90	392.60
21.0	386.70	391.60	392.40	394.30	397.20	397.90	398.20	398.40	384.20	391.10
21.5	385.10	390.00	390.90	393.00	396.00	396.60	396.80	396.80	382.50	389.50
22.0	383.50	388.30	389.40	391.70	394.80	395.40	395.40	395.10	380.80	387.80
22.5	381.80	386.60	387.90	390.40	393.60	394.10	393.90	393.40	379.00	386.20
23.0	380.00	384.90	386.30	389.10	392.30	392.80	392.40	391.80	377.30	384.50
23.5	378.20	383.10	384.80	387.80	391.00	391.40	390.90	390.00	375.50	382.80
24.0	376.40	381.40	383.20	386.40	389.60	390.00	389.30	388.30	373.70	381.20
24.5	374.50	379.50	381.60	384.90	388.20	388.50	387.70	386.50	371.90	379.40
25.0	372.50	377.70	380.00	383.50	386.80	387.10	386.00	384.70	370.00	377.70
25.5	370.50	375.80	378.30	381.90	385.30	385.60	384.30	382.90	368.10	375.90
26.0	368.40	373.80	376.50	380.30	383.90	384.10	382.60	381.00	366.20	374.00
26.5	366.40	371.90	374.80	378.70	382.30	382.50	380.80	379.10	364.20	372.10

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27.0	364.20	369.90	372.90	377.00	380.80	380.90	379.10	377.10	362.30	370.20
27.5	362.10	367.90	371.00	375.40	379.20	379.20	377.20	375.20	360.20	368.30
28.0	359.90	365.80	369.20	373.60	377.70	377.70	375.40	373.20	358.20	366.40
28.5	357.70	363.70	367.20	371.80	376.10	376.00	373.40	371.10	356.10	364.40
29.0	355.50	361.70	365.30	370.10	374.40	374.20	371.50	369.10	354.10	362.40
29.5	353.30	359.60	363.30	368.30	372.80	372.50	369.50	367.00	352.10	360.40
30.0	351.30	357.40	361.20	366.60	371.10	370.70	367.50	364.80	349.80	358.30
30.5	349.00	355.30	359.30	364.80	369.40	368.90	365.50	362.80	347.70	356.30
31.0	346.80	353.00	357.20	363.10	367.60	367.00	363.60	360.60	345.50	354.10
31.5	344.50	350.90	355.20	361.20	365.70	365.10	361.50	358.40	343.30	351.90
32.0	342.30	348.50	353.20	359.30	363.90	363.20	359.50	356.20	340.90	349.70
32.5	340.00	346.30	351.20	357.40	362.00	361.30	357.40	353.90	338.60	347.40
33.0	337.70	344.00	349.00	355.50	360.10	359.40	355.30	351.70	336.30	345.10
33.5	335.40	341.60	346.80	353.40	358.10	357.40	353.30	349.30	333.80	342.70
34.0	333.00	339.00	344.60	351.40	356.20	355.50	351.10	347.00	331.40	340.30
34.5	330.50	336.50	342.30	349.30	354.30	353.60	349.10	344.50	328.90	337.90
35.0	328.00	333.90	339.80	347.20	352.40	351.70	346.90	342.10	326.40	335.50
35.5	325.40	331.20	337.50	345.00	350.50	349.80	344.70	339.70	323.80	332.90
36.0	322.60	328.50	334.90	342.90	348.60	347.80	342.50	337.20	321.20	330.40
36.5	319.80	325.80	332.50	340.70	346.60	345.90	340.10	334.60	318.60	327.90
37.0	317.10	323.00	329.90	338.50	344.70	343.80	337.80	332.20	315.90	325.40
37.5	314.20	320.20	327.40	336.30	342.70	341.70	335.50	329.70	313.20	322.70
38.0	311.40	317.40	324.80	334.10	340.70	339.60	333.10	327.20	310.60	320.10
38.5	308.50	314.70	322.20	331.90	338.70	337.40	330.80	324.50	307.90	317.50
39.0	305.70	311.90	319.70	329.70	336.60	335.20	328.30	322.00	305.10	314.90
39.5	302.80	309.20	317.20	327.40	334.50	333.10	325.90	319.40	302.40	312.30
40.0	299.90	306.40	314.60	325.20	332.30	330.90	323.50	316.80	299.60	309.60
40.5	297.10	303.80	312.20	322.90	330.20	328.60	321.00	314.20	296.90	307.00
41.0	294.20	301.10	309.70	320.60	328.00	326.30	318.60	311.60	294.20	304.30
41.5	291.40	298.50	307.20	318.40	325.80	324.00	316.00	308.90	291.50	301.60
42.0	288.70	295.80	304.80	316.20	323.60	321.70	313.50	306.20	288.80	299.00
42.5	286.00	293.20	302.30	313.90	321.40	319.40	311.10	303.50	286.10	296.30
43.0	283.20	290.50	300.00	311.70	319.20	317.00	308.50	300.80	283.40	293.50
43.5	280.60	287.80	297.50	309.50	316.90	314.70	306.00	298.10	280.70	290.90
44.0	277.80	285.10	295.10	307.30	314.70	312.30	303.40	295.20	277.90	288.20
44.5	275.10	282.50	292.60	305.10	312.50	310.10	300.80	292.50	275.10	285.40
45.0	272.40	279.80	290.20	302.70	310.30	307.70	298.30	289.80	272.40	282.60
45.5	269.60	277.10	287.80	300.40	308.10	305.40	295.70	287.00	269.60	279.80
46.0	266.80	274.20	285.20	298.20	305.90	303.10	293.10	284.10	266.70	276.90
46.5	264.00	271.50	282.70	296.00	303.80	300.80	290.60	281.40	263.80	274.00
47.0	261.10	268.70	280.20	293.70	301.60	298.60	288.00	278.60	260.80	271.10
47.5	258.20	265.90	277.70	291.50	299.50	296.30	285.40	275.70	257.90	268.10
48.0	255.30	263.10	275.20	289.10	297.30	294.10	282.80	272.90	254.80	265.20
48.5	252.30	260.30	272.70	286.80	295.20	291.90	280.20	270.10	251.80	262.20
49.0	249.30	257.60	270.00	284.70	293.20	289.60	277.60	267.20	248.70	259.20
49.5	246.30	254.80	267.50	282.40	291.10	287.40	275.00	264.30	245.60	256.30
50.0	243.20	251.90	265.00	280.20	289.00	285.20	272.50	261.50	242.50	253.30
50.5	240.20	249.10	262.40	278.00	286.90	283.00	269.90	258.60	239.30	250.30
51.0	237.10	246.20	259.80	275.80	284.80	280.80	267.40	255.70	236.00	247.30
51.5	234.10	243.40	257.10	273.50	282.70	278.60	264.80	252.80	232.90	244.10
52.0	231.00	240.40	254.50	271.20	280.50	276.30	262.20	249.90	229.60	241.20
52.5	227.90	237.50	251.80	268.90	278.40	274.00	259.70	246.90	226.40	238.00
53.0	224.90	234.50	249.20	266.60	276.10	271.80	257.00	243.90	223.00	234.80
53.5	221.80	231.40	246.60	264.30	273.90	269.40	254.50	241.00	219.80	231.60
54.0	218.80	228.30	243.90	261.90	271.70	267.10	251.90	238.00	216.50	228.50
54.5	215.70	225.20	241.20	259.60	269.50	264.80	249.40	235.00	213.20	225.20

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55.0	212.60	222.00	238.60	257.30	267.20	262.40	246.70	231.90	209.90	221.90
55.5	209.50	218.90	235.90	254.90	265.00	260.10	244.00	228.80	206.50	218.70
56.0	206.30	215.80	233.30	252.60	262.80	257.80	241.40	225.60	203.20	215.30
56.5	203.10	212.50	230.60	250.20	260.60	255.40	238.60	222.50	199.80	212.10
57.0	199.90	209.30	227.90	247.80	258.30	253.00	235.80	219.20	196.50	208.80
57.5	196.60	206.10	225.30	245.50	256.00	250.60	233.10	216.00	193.10	205.50
58.0	193.30	202.90	222.50	243.10	253.90	248.30	230.20	212.70	189.80	202.20
58.5	189.90	199.60	219.80	240.70	251.60	245.90	227.40	209.40	186.40	199.00
59.0	186.50	196.40	217.00	238.40	249.30	243.40	224.60	206.10	183.10	195.80
59.5	182.90	193.10	214.30	236.00	247.00	241.10	221.80	202.80	179.70	192.70
60.0	179.50	189.80	211.50	233.50	244.70	238.60	219.00	199.50	176.30	189.40
60.5	176.00	186.70	208.80	231.00	242.40	236.20	216.10	196.20	173.00	186.30
61.0	172.40	183.40	206.00	228.70	240.10	233.90	213.40	193.00	169.50	183.10
61.5	168.90	180.10	203.20	226.40	237.80	231.40	210.80	189.70	166.10	180.00
62.0	165.40	176.90	200.40	223.90	235.60	229.10	208.00	186.40	162.70	176.80
62.5	161.90	173.70	197.70	221.60	233.30	226.80	205.40	183.10	159.30	173.60
63.0	158.30	170.50	195.00	219.30	230.90	224.50	202.80	179.80	155.90	170.40
63.5	154.80	167.30	192.40	216.90	228.70	222.20	200.20	176.60	152.40	167.20
64.0	151.40	164.10	189.70	214.60	226.40	219.90	197.60	173.40	148.90	164.00
64.5	147.90	160.80	187.20	212.40	224.10	217.70	195.10	170.10	145.50	160.80
65.0	144.50	157.60	184.70	210.20	221.90	215.30	192.50	166.90	142.00	157.60
65.5	141.10	154.40	182.10	207.90	219.70	213.10	189.90	163.60	138.60	154.30
66.0	137.70	151.20	179.60	205.50	217.50	210.70	187.30	160.40	135.10	151.20
66.5	134.20	148.00	177.10	203.20	215.10	208.30	184.80	157.00	131.60	148.00
67.0	130.80	144.80	174.60	200.80	212.90	205.90	182.20	153.80	128.10	144.70
67.5	127.30	141.50	172.20	198.50	210.70	203.50	179.60	150.40	124.70	141.60
68.0	123.90	138.20	169.70	196.10	208.40	201.20	177.10	147.30	121.20	138.40
68.5	120.30	135.10	167.30	193.80	206.00	198.70	174.50	144.00	117.60	135.20
69.0	116.80	131.80	164.80	191.40	203.80	196.40	172.00	140.80	114.00	132.10
69.5	113.30	128.60	162.40	189.00	201.50	194.10	169.60	137.70	110.50	129.00
70.0	109.70	125.60	159.90	186.60	199.20	191.80	167.00	134.40	106.90	125.90
70.5	106.10	122.50	157.40	184.40	196.90	189.40	164.50	131.30	103.40	122.80
71.0	102.50	119.50	154.80	182.00	194.60	187.10	161.90	128.20	99.83	119.60
71.5	98.94	116.50	152.30	179.70	192.40	184.90	159.30	125.20	96.22	116.60
72.0	95.27	113.50	149.80	177.40	190.10	182.60	157.30	122.00	92.69	113.60
72.5	91.68	110.60	147.20	175.10	187.90	180.30	154.80	119.00	89.20	110.60
73.0	88.07	107.70	144.70	172.80	185.60	177.90	152.20	116.00	85.66	107.60
73.5	84.55	104.80	142.20	170.50	183.40	175.70	149.70	113.00	82.20	104.70
74.0	80.99	102.00	139.60	168.30	181.10	173.30	147.20	110.10	78.70	101.80
74.5	77.46	99.17	137.10	166.00	178.90	171.10	144.60	107.20	75.29	98.88
75.0	74.00	96.37	134.60	163.70	176.60	168.70	142.10	104.30	71.91	96.10
75.5	70.89	93.64	132.10	161.40	174.40	166.50	139.60	101.60	68.82	93.37
76.0	67.44	90.94	129.80	159.20	172.20	164.20	137.10	98.74	65.40	90.60
76.5	64.04	88.27	127.20	157.00	170.00	161.90	134.60	96.03	62.03	87.96
77.0	60.64	85.63	124.90	154.70	167.80	159.50	132.20	93.37	58.67	85.38
77.5	57.30	83.11	122.50	152.50	165.60	157.30	129.80	90.75	55.36	82.78
78.0	54.00	80.57	120.10	150.20	163.50	155.00	127.40	88.21	52.06	80.34
78.5	50.70	78.00	117.70	148.10	161.30	152.80	125.00	85.68	48.78	77.93
79.0	47.47	75.51	115.40	145.80	159.10	150.50	122.70	83.11	45.56	75.47
79.5	44.27	72.89	113.10	143.70	156.90	148.30	120.40	80.46	42.36	73.09
80.0	41.10	70.68	110.70	141.50	154.70	146.10	118.10	77.77	39.24	70.92
80.5	37.98	68.09	108.40	139.30	152.60	143.80	115.70	75.15	36.15	68.37
81.0	34.88	65.50	106.20	137.20	150.40	141.60	113.50	72.65	33.11	65.84
81.5	31.87	62.96	103.90	135.00	148.10	139.40	111.20	70.29	30.19	63.34
82.0	28.88	60.47	101.60	132.80	145.90	137.10	108.90	67.71	27.32	60.84
82.5	26.01	57.98	99.32	130.60	143.70	134.90	106.60	65.18	24.56	58.41

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CANDELA TABULATION - (Cont.)

83.0	23.19	55.56	97.05	128.30	141.40	132.70	104.40	62.70	21.85	56.00
83.5	20.48	53.19	94.82	126.10	139.10	130.40	102.10	60.25	19.26	53.68
84.0	17.87	50.87	92.61	123.90	136.90	128.20	99.84	57.87	16.77	51.39
84.5	15.37	48.59	90.40	121.70	134.70	126.00	97.64	55.53	14.41	49.16
85.0	13.04	46.38	88.20	119.50	132.50	123.70	95.40	53.24	12.16	47.00
85.5	10.82	44.23	86.02	117.30	130.30	121.50	93.18	51.05	10.06	44.89
86.0	8.75	42.15	83.93	115.20	128.10	119.30	90.99	48.89	8.10	42.84
86.5	6.89	40.12	81.82	113.00	126.00	117.10	88.82	46.81	6.33	40.84
87.0	5.20	38.13	79.77	110.90	123.80	114.90	86.70	44.76	4.74	38.90
87.5	3.73	36.19	77.64	108.80	121.70	112.80	84.56	42.74	3.36	37.01
88.0	2.46	34.31	75.61	106.70	119.60	110.70	82.42	40.78	2.20	35.17
88.5	1.44	32.46	73.66	104.60	117.40	108.50	80.34	38.84	1.29	33.37
89.0	0.65	30.65	71.78	102.70	115.50	106.40	78.26	36.94	0.64	31.60
89.5	0.12	28.91	70.11	100.70	113.50	104.30	76.18	35.04	0.22	29.88
90.0	0.00	27.25	68.22	98.68	111.40	102.40	74.30	33.31	0.00	28.24
90.5	0.00	25.59	66.28	96.67	109.30	100.30	72.55	31.62	0.00	26.61
91.0	0.00	23.95	64.30	94.59	107.30	98.18	70.70	29.83	0.00	25.00
91.5	0.00	22.33	62.31	92.46	105.10	96.05	68.63	28.11	0.00	23.46
92.0	0.00	20.79	60.32	90.34	102.90	93.85	66.55	26.44	0.00	21.95
92.5	0.00	19.29	58.32	88.17	100.60	91.60	64.45	24.79	0.00	20.48
93.0	0.00	17.79	56.34	86.01	98.29	89.39	62.42	23.23	0.00	19.08
93.5	0.00	16.36	54.38	83.90	96.07	87.19	60.38	21.67	0.00	17.70
94.0	0.00	14.92	52.46	81.71	93.79	85.03	58.36	20.14	0.00	16.35
94.5	0.00	13.51	50.55	79.61	91.60	82.90	56.36	18.65	0.00	15.01
95.0	0.00	12.12	48.66	77.54	89.43	80.74	54.40	17.17	0.00	13.68
95.5	0.00	10.73	46.78	75.48	87.27	78.69	52.47	15.70	0.00	12.36
96.0	0.00	9.36	44.96	73.45	85.15	76.64	50.55	14.26	0.00	11.07
96.5	0.00	7.98	43.12	71.81	83.07	74.63	48.64	12.81	0.00	9.78
97.0	0.00	6.61	41.31	69.79	81.00	72.70	46.76	11.38	0.00	8.47
97.5	0.00	5.22	39.52	67.79	78.92	70.90	44.89	9.92	0.00	7.16
98.0	0.00	3.83	37.70	65.77	76.90	68.88	43.03	8.49	0.00	5.88
98.5	0.00	2.47	35.88	63.78	74.82	66.81	41.16	7.03	0.00	4.59
99.0	0.00	1.21	34.08	61.74	72.84	64.77	39.31	5.58	0.00	3.32
99.5	0.00	0.22	32.26	59.71	71.03	62.70	37.44	4.14	0.00	2.10
100.0	0.00	0.00	30.45	57.65	68.92	60.61	35.58	2.72	0.00	0.98
100.5	0.00	0.00	28.61	55.60	66.81	58.52	33.71	1.36	0.00	0.24
101.0	0.00	0.00	26.79	53.56	64.72	56.44	31.83	0.36	0.00	0.10
101.5	0.00	0.00	24.96	51.49	62.61	54.34	29.97	0.00	0.00	0.05
102.0	0.00	0.00	23.10	49.44	60.50	52.25	28.07	0.00	0.00	0.02
102.5	0.00	0.00	21.26	47.40	58.37	50.18	26.19	0.00	0.00	0.00
103.0	0.00	0.00	19.39	45.34	56.26	48.10	24.32	0.00	0.00	0.00
103.5	0.00	0.00	17.51	43.30	54.15	46.01	22.41	0.00	0.00	0.00
104.0	0.00	0.00	15.61	41.26	52.03	43.93	20.49	0.00	0.00	0.00
104.5	0.00	0.00	13.70	39.22	49.91	41.86	18.56	0.00	0.00	0.00
105.0	0.00	0.00	11.76	37.14	47.77	39.79	16.62	0.00	0.00	0.00
105.5	0.00	0.00	9.79	35.08	45.66	37.70	14.67	0.00	0.00	0.00
106.0	0.00	0.00	7.82	33.00	43.51	35.60	12.68	0.00	0.00	0.00
106.5	0.00	0.00	5.85	30.91	41.36	33.51	10.68	0.00	0.00	0.00
107.0	0.00	0.00	3.95	28.79	39.19	31.40	8.65	0.00	0.00	0.00
107.5	0.00	0.00	2.25	26.65	37.00	29.27	6.63	0.00	0.00	0.00
108.0	0.00	0.00	0.98	24.49	34.79	27.11	4.63	0.00	0.00	0.00
108.5	0.00	0.00	0.18	22.32	32.55	24.94	2.73	0.00	0.00	0.00
109.0	0.00	0.00	0.00	20.10	30.31	22.73	1.25	0.00	0.00	0.00
109.5	0.00	0.00	0.00	17.87	28.04	20.52	0.34	0.00	0.00	0.00
110.0	0.00	0.00	0.00	15.61	25.77	18.28	0.00	0.00	0.00	0.00
110.5	0.00	0.00	0.00	13.33	23.46	16.02	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

111.0	0.00	0.00	0.00	11.05	21.16	13.74	0.00	0.00	0.00	0.00
111.5	0.00	0.00	0.00	8.76	18.85	11.43	0.00	0.00	0.00	0.00
112.0	0.00	0.00	0.00	6.48	16.50	9.12	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	4.31	14.13	6.83	0.00	0.00	0.00	0.00
113.0	0.00	0.00	0.00	2.49	11.76	4.60	0.00	0.00	0.00	0.00
113.5	0.00	0.00	0.00	1.19	9.39	2.63	0.00	0.00	0.00	0.00
114.0	0.00	0.00	0.00	0.29	7.04	1.27	0.00	0.00	0.00	0.00
114.5	0.00	0.00	0.00	0.00	4.77	0.32	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	2.79	0.00	0.00	0.00	0.00	0.00
115.5	0.00	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00
116.0	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00
116.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	421.90	421.90	421.90	421.90	421.90	421.90	421.90
0.5	421.60	419.30	419.80	420.70	423.80	426.20	419.20
1.0	421.60	419.30	419.70	420.70	423.60	425.90	419.20
1.5	421.50	419.20	419.70	420.50	423.40	425.60	419.10
2.0	421.40	419.10	419.70	420.40	423.20	425.30	419.00
2.5	421.20	419.10	419.50	420.20	423.00	425.00	418.90
3.0	421.00	418.90	419.50	420.10	422.70	424.70	418.80
3.5	420.90	418.70	419.30	420.00	422.40	424.30	418.60
4.0	420.60	418.50	419.10	419.70	422.10	423.90	418.40
4.5	420.40	418.30	418.90	419.50	421.90	423.50	418.20
5.0	420.10	418.10	418.80	419.20	421.40	423.00	417.80
5.5	419.70	417.80	418.50	418.90	421.00	422.50	417.50
6.0	419.50	417.50	418.10	418.50	420.60	421.90	417.20
6.5	419.10	417.30	417.70	418.10	420.10	421.40	416.70
7.0	418.70	416.80	417.30	417.70	419.60	420.80	416.30
7.5	418.30	416.40	416.90	417.20	419.10	420.10	415.80
8.0	417.80	416.00	416.50	416.70	418.50	419.50	415.30
8.5	417.30	415.60	416.10	416.10	417.80	418.80	414.70
9.0	416.70	415.10	415.50	415.60	417.20	418.10	414.10
9.5	416.20	414.60	415.00	415.10	416.60	417.30	413.40
10.0	415.60	414.10	414.50	414.50	415.80	416.60	412.70
10.5	414.90	413.50	414.00	413.90	415.10	415.80	412.00
11.0	414.30	413.00	413.50	413.30	414.50	415.00	411.20
11.5	413.50	412.40	413.00	412.80	413.70	414.10	410.40
12.0	412.70	411.70	412.40	412.20	413.00	413.20	409.50

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CANDELA TABULATION - (Cont.)

12.5	411.90	411.10	411.90	411.60	412.20	412.30	408.60
13.0	411.00	410.30	411.20	410.90	411.40	411.20	407.70
13.5	410.00	409.50	410.50	410.10	410.50	410.20	406.60
14.0	409.10	408.60	409.70	409.30	409.70	409.20	405.60
14.5	408.10	407.80	408.90	408.50	408.70	408.10	404.50
15.0	407.10	406.80	407.90	407.60	407.70	406.90	403.40
15.5	405.90	405.90	407.00	406.70	406.60	405.60	402.20
16.0	404.90	404.90	406.10	405.70	405.50	404.40	401.00
16.5	403.60	403.80	405.10	404.60	404.30	403.00	399.80
17.0	402.40	402.80	404.10	403.50	403.10	401.60	398.50
17.5	401.20	401.70	403.10	402.30	401.80	400.20	397.20
18.0	399.90	400.70	402.00	401.10	400.40	398.70	395.80
18.5	398.60	399.50	400.90	399.90	399.00	397.10	394.40
19.0	397.20	398.40	399.70	398.70	397.50	395.50	393.00
19.5	395.90	397.20	398.60	397.40	396.00	393.90	391.50
20.0	394.50	395.90	397.30	396.10	394.50	392.20	389.90
20.5	393.10	394.60	396.00	394.70	392.90	390.50	388.40
21.0	391.70	393.40	394.70	393.30	391.30	388.80	386.70
21.5	390.20	392.00	393.40	391.90	389.70	387.00	385.10
22.0	388.70	390.60	392.00	390.40	388.00	385.20	383.50
22.5	387.30	389.20	390.70	389.00	386.40	383.40	381.80
23.0	385.70	387.80	389.20	387.40	384.70	381.50	380.00
23.5	384.20	386.40	387.80	385.90	383.00	379.70	378.20
24.0	382.60	385.00	386.40	384.40	381.30	377.70	376.40
24.5	381.10	383.60	385.00	382.90	379.50	375.80	374.50
25.0	379.60	382.10	383.60	381.30	377.80	373.90	372.50
25.5	378.00	380.70	382.20	379.90	376.00	372.00	370.50
26.0	376.40	379.30	380.80	378.30	374.20	370.00	368.40
26.5	374.80	377.90	379.50	376.80	372.50	368.00	366.40
27.0	373.10	376.50	378.10	375.30	370.70	366.00	364.20
27.5	371.30	375.10	376.70	373.80	369.00	364.00	362.10
28.0	369.70	373.70	375.30	372.30	367.20	362.00	359.90
28.5	368.00	372.10	373.90	370.90	365.50	360.00	357.70
29.0	366.10	370.50	372.40	369.30	363.70	358.00	355.50
29.5	364.20	368.80	370.90	367.70	361.90	356.00	353.30
30.0	362.20	367.20	369.40	366.10	360.10	353.90	351.30
30.5	360.30	365.50	367.90	364.40	358.20	351.80	349.00
31.0	358.30	363.70	366.20	362.80	356.30	349.70	346.80
31.5	356.20	361.90	364.50	361.10	354.40	347.50	344.50
32.0	354.10	360.10	362.80	359.30	352.40	345.40	342.30
32.5	352.10	358.20	361.10	357.60	350.40	343.20	340.00
33.0	350.00	356.40	359.40	355.70	348.20	340.90	337.70
33.5	347.90	354.50	357.50	353.80	346.10	338.60	335.40
34.0	345.80	352.50	355.60	351.80	343.90	336.20	333.00
34.5	343.60	350.60	353.90	349.80	341.80	333.70	330.50
35.0	341.40	348.60	351.80	347.80	339.40	331.30	328.00
35.5	339.20	346.70	349.80	345.70	337.10	328.70	325.40
36.0	336.80	344.50	347.80	343.50	334.70	326.20	322.60
36.5	334.50	342.40	345.70	341.30	332.30	323.60	319.80
37.0	332.10	340.20	343.50	339.10	329.90	321.10	317.10
37.5	329.70	337.90	341.40	336.80	327.40	318.50	314.20
38.0	327.30	335.60	339.20	334.50	325.00	315.80	311.40
38.5	324.80	333.40	337.00	332.30	322.50	313.20	308.50
39.0	322.40	331.10	334.80	329.90	320.00	310.60	305.70
39.5	319.90	328.90	332.70	327.70	317.50	307.90	302.80
40.0	317.40	326.70	330.60	325.40	315.10	305.30	299.90

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40.5	315.00	324.40	328.50	323.30	312.50	302.60	297.10
41.0	312.60	322.30	326.40	321.10	310.10	299.90	294.20
41.5	310.20	320.20	324.40	319.00	307.70	297.30	291.40
42.0	307.80	318.10	322.40	316.90	305.30	294.60	288.70
42.5	305.50	315.90	320.40	314.70	302.90	291.90	286.00
43.0	303.00	313.80	318.40	312.60	300.40	289.20	283.20
43.5	300.50	311.60	316.40	310.50	298.00	286.50	280.60
44.0	298.10	309.50	314.40	308.30	295.60	283.90	277.80
44.5	295.60	307.30	312.20	306.20	293.20	281.20	275.10
45.0	293.00	304.90	310.20	304.10	290.80	278.50	272.40
45.5	290.40	302.70	308.00	301.80	288.30	275.80	269.60
46.0	287.90	300.40	305.90	299.50	285.70	273.10	266.80
46.5	285.20	298.00	303.60	297.30	283.30	270.30	264.00
47.0	282.60	295.50	301.40	295.00	280.80	267.50	261.10
47.5	279.90	293.20	299.10	292.60	278.20	264.80	258.20
48.0	277.20	290.80	296.80	291.30	275.50	261.80	255.30
48.5	274.60	288.30	294.60	287.80	272.90	258.90	252.30
49.0	271.90	285.90	292.20	285.40	270.20	256.00	249.30
49.5	269.10	283.50	289.90	283.00	267.50	253.00	246.30
50.0	266.40	281.10	287.50	280.50	264.80	250.00	243.20
50.5	263.80	278.60	285.20	278.00	262.10	247.00	240.20
51.0	261.00	276.30	282.80	275.50	259.30	243.80	237.10
51.5	258.30	273.80	280.40	273.10	256.60	240.80	234.10
52.0	255.50	271.30	278.10	270.70	253.70	237.70	231.00
52.5	252.70	268.90	275.70	268.10	251.00	234.50	227.90
53.0	250.00	266.40	273.40	265.70	248.10	231.40	224.90
53.5	247.10	264.00	271.00	263.10	245.30	228.30	221.80
54.0	244.40	261.50	268.60	260.70	242.60	225.10	218.80
54.5	241.60	259.00	266.20	258.20	239.80	221.90	215.70
55.0	238.70	256.40	263.90	255.70	236.90	218.80	212.60
55.5	235.80	253.90	261.50	253.30	234.20	215.60	209.50
56.0	233.00	251.40	259.10	250.90	231.30	212.40	206.30
56.5	230.20	249.00	256.80	248.40	228.50	209.30	203.10
57.0	227.30	246.50	254.40	246.00	225.90	206.10	199.90
57.5	224.60	243.90	252.00	243.60	223.00	202.90	196.60
58.0	221.80	241.40	249.70	241.10	220.30	199.70	193.30
58.5	219.10	239.00	247.30	238.60	217.50	196.50	189.90
59.0	216.40	236.60	245.00	236.20	214.70	193.40	186.50
59.5	213.80	234.20	242.70	233.80	212.00	190.20	182.90
60.0	211.20	231.90	240.50	231.40	209.40	187.00	179.50
60.5	208.50	229.50	238.30	229.00	206.80	183.80	176.00
61.0	205.90	227.30	236.10	226.70	204.00	180.70	172.40
61.5	203.30	225.10	233.90	224.50	201.40	177.50	168.90
62.0	200.80	222.80	231.90	222.20	198.90	174.30	165.40
62.5	198.10	220.50	229.70	220.00	196.30	171.20	161.90
63.0	195.50	218.30	227.50	217.70	193.80	168.00	158.30
63.5	192.90	216.00	225.30	215.60	191.20	164.90	154.80
64.0	190.20	213.80	223.20	213.40	188.70	161.80	151.40
64.5	187.60	211.50	221.00	211.10	186.20	158.70	147.90
65.0	185.00	209.20	218.60	208.90	183.60	155.50	144.50
65.5	182.40	206.90	216.30	206.70	181.20	152.30	141.10
66.0	179.80	204.60	214.10	204.80	178.70	149.20	137.70
66.5	177.20	202.30	211.90	202.30	176.20	146.20	134.20
67.0	174.80	200.00	209.70	199.90	173.80	143.10	130.80
67.5	172.20	197.80	207.50	197.70	171.40	140.00	127.30
68.0	169.70	195.40	205.20	195.50	168.90	137.00	123.90

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68.5	167.30	193.10	203.00	193.20	166.40	134.00	120.30
69.0	164.80	190.80	200.70	190.90	164.00	130.90	116.80
69.5	162.40	188.50	198.50	188.50	161.50	127.80	113.30
70.0	160.00	186.20	196.20	186.20	159.10	124.80	109.70
70.5	157.50	183.80	193.90	183.80	156.60	121.80	106.10
71.0	155.10	181.50	191.70	181.60	154.10	118.80	102.50
71.5	152.60	179.10	189.40	179.20	151.60	115.80	98.94
72.0	150.20	176.90	187.10	176.90	149.10	112.90	95.27
72.5	147.80	174.60	184.90	174.70	146.70	109.90	91.68
73.0	145.30	172.30	182.70	172.40	144.30	107.10	88.07
73.5	142.80	170.00	180.50	170.20	141.90	104.30	84.55
74.0	140.30	167.70	178.20	167.90	139.50	101.40	80.99
74.5	137.90	165.50	176.10	165.70	137.10	98.71	77.46
75.0	135.40	163.30	173.90	163.50	134.90	95.98	74.00
75.5	133.00	161.00	171.70	161.30	132.50	93.36	70.89
76.0	130.50	158.80	169.60	159.20	130.20	90.75	67.44
76.5	128.20	156.60	167.50	157.00	127.90	88.18	64.04
77.0	125.70	154.60	165.40	154.80	125.60	85.70	60.64
77.5	123.40	152.50	163.40	152.70	123.30	83.28	57.30
78.0	121.00	150.30	161.30	150.60	121.10	80.89	54.00
78.5	118.70	148.30	159.20	148.40	118.80	78.56	50.70
79.0	116.50	146.10	157.00	146.30	116.50	76.10	47.47
79.5	114.10	144.00	155.00	144.20	114.30	73.65	44.27
80.0	111.80	141.90	152.90	142.20	112.10	71.51	41.10
80.5	109.60	139.70	150.70	140.00	109.90	69.17	37.98
81.0	107.30	137.60	148.70	137.90	107.70	66.77	34.88
81.5	105.00	135.50	146.50	135.70	105.40	64.35	31.87
82.0	102.80	133.30	144.40	133.60	103.30	61.99	28.88
82.5	100.60	131.20	142.20	131.50	101.10	59.67	26.01
83.0	98.43	129.10	140.20	129.30	98.96	57.41	23.19
83.5	96.27	126.90	138.10	127.20	96.93	55.16	20.48
84.0	94.19	124.90	136.00	125.10	94.86	53.00	17.87
84.5	92.07	122.80	133.80	123.00	92.74	50.88	15.37
85.0	90.01	120.70	131.80	120.90	90.74	48.82	13.04
85.5	87.89	118.60	129.70	118.90	88.71	46.79	10.82
86.0	85.84	116.50	127.60	116.80	86.63	44.80	8.75
86.5	83.84	114.40	125.60	114.70	84.62	42.87	6.89
87.0	81.72	112.30	123.50	112.60	82.59	40.99	5.20
87.5	79.67	110.20	121.40	110.50	80.62	39.14	3.73
88.0	77.68	108.20	119.20	108.40	78.63	37.32	2.46
88.5	75.68	106.00	117.10	106.40	76.63	35.51	1.44
89.0	73.63	103.90	115.00	104.30	74.55	33.75	0.65
89.5	72.00	101.90	112.90	102.10	72.58	32.03	0.12
90.0	70.05	99.77	110.90	100.10	71.02	30.39	0.00
90.5	68.16	97.85	108.90	98.11	69.14	28.74	0.00
91.0	66.23	95.84	106.70	96.09	67.17	27.11	0.00
91.5	64.28	93.81	104.60	93.99	65.18	25.54	0.00
92.0	62.31	91.66	102.40	91.92	63.24	24.02	0.00
92.5	60.39	89.59	100.30	89.83	61.33	22.56	0.00
93.0	58.52	87.50	98.17	87.75	59.45	21.11	0.00
93.5	56.64	85.50	96.14	85.74	57.60	19.72	0.00
94.0	54.80	83.52	94.09	83.78	55.77	18.37	0.00
94.5	52.96	81.52	92.05	81.75	53.98	17.01	0.00
95.0	51.15	79.54	90.00	79.81	52.20	15.68	0.00
95.5	49.37	77.57	87.93	77.79	50.44	14.37	0.00
96.0	47.59	75.65	85.94	75.89	48.70	13.05	0.00

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96.5	45.82	73.64	83.89	73.93	46.96	11.75	0.00
97.0	44.03	71.92	81.85	72.18	45.22	10.45	0.00
97.5	42.28	70.17	79.85	70.44	43.50	9.14	0.00
98.0	40.52	68.23	77.87	68.53	41.78	7.83	0.00
98.5	38.76	66.28	75.84	66.59	40.07	6.52	0.00
99.0	37.02	64.35	73.83	64.68	38.35	5.21	0.00
99.5	35.27	62.37	72.21	62.74	36.63	3.91	0.00
100.0	33.53	60.41	70.20	60.82	34.93	2.64	0.00
100.5	31.80	58.44	68.19	58.88	33.20	1.37	0.00
101.0	30.08	56.50	66.15	56.96	31.50	0.22	0.00
101.5	28.36	54.57	64.14	55.05	29.78	0.00	0.00
102.0	26.63	52.63	62.15	53.14	28.06	0.00	0.00
102.5	24.93	50.69	60.17	51.24	26.36	0.00	0.00
103.0	23.21	48.76	58.16	49.33	24.63	0.00	0.00
103.5	21.48	46.84	56.16	47.42	22.91	0.00	0.00
104.0	19.73	44.92	54.17	45.52	21.17	0.00	0.00
104.5	17.98	43.00	52.20	43.61	19.43	0.00	0.00
105.0	16.19	41.05	50.22	41.67	17.69	0.00	0.00
105.5	14.39	39.11	48.20	39.72	15.93	0.00	0.00
106.0	12.57	37.18	46.18	37.78	14.14	0.00	0.00
106.5	10.74	35.22	44.17	35.83	12.36	0.00	0.00
107.0	8.86	33.27	42.13	33.85	10.55	0.00	0.00
107.5	6.96	31.26	40.10	31.86	8.74	0.00	0.00
108.0	5.09	29.25	38.05	29.88	6.91	0.00	0.00
108.5	3.25	27.24	35.99	27.88	5.07	0.00	0.00
109.0	1.60	25.20	33.93	25.88	3.26	0.00	0.00
109.5	0.48	23.16	31.85	23.85	1.54	0.00	0.00
110.0	0.10	21.07	29.76	21.81	0.30	0.00	0.00
110.5	0.00	18.97	27.67	19.79	0.00	0.00	0.00
111.0	0.00	16.86	25.53	17.67	0.00	0.00	0.00
111.5	0.00	14.74	23.40	15.58	0.00	0.00	0.00
112.0	0.00	12.60	21.25	13.48	0.00	0.00	0.00
112.5	0.00	10.44	19.09	11.36	0.00	0.00	0.00
113.0	0.00	8.27	16.89	9.21	0.00	0.00	0.00
113.5	0.00	6.10	14.68	7.06	0.00	0.00	0.00
114.0	0.00	3.99	12.47	4.91	0.00	0.00	0.00
114.5	0.00	2.06	10.23	2.84	0.00	0.00	0.00
115.0	0.00	0.65	8.00	1.08	0.00	0.00	0.00
115.5	0.00	0.04	5.75	0.13	0.00	0.00	0.00
116.0	0.00	0.00	3.56	0.00	0.00	0.00	0.00
116.5	0.00	0.00	1.63	0.00	0.00	0.00	0.00
117.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

124.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	155.13	N.A.	10.50
0-30	330.47	N.A.	22.40
0-40	544.06	N.A.	36.90
0-60	984.93	N.A.	66.80
0-80	1306.58	N.A.	88.60
0-90	1398.19	N.A.	94.90
10-90	1358.19	N.A.	92.10
20-40	388.92	N.A.	26.40
20-50	615.06	N.A.	41.70
40-70	623.80	N.A.	42.30
60-80	321.65	N.A.	21.80
70-80	138.72	N.A.	9.40
80-90	91.61	N.A.	6.20
90-110	73.54	N.A.	5.00
90-120	75.77	N.A.	5.10
90-130	75.77	N.A.	5.10
90-150	75.77	N.A.	5.10
90-180	75.77	N.A.	5.10
110-180	2.23	N.A.	0.20
0-180	1473.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.00
10-20	115.13
20-30	175.34
30-40	213.59
40-50	226.13
50-60	214.74
60-70	182.93
70-80	138.72
80-90	91.61
90-100	52.29
100-110	21.25
110-120	2.23
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

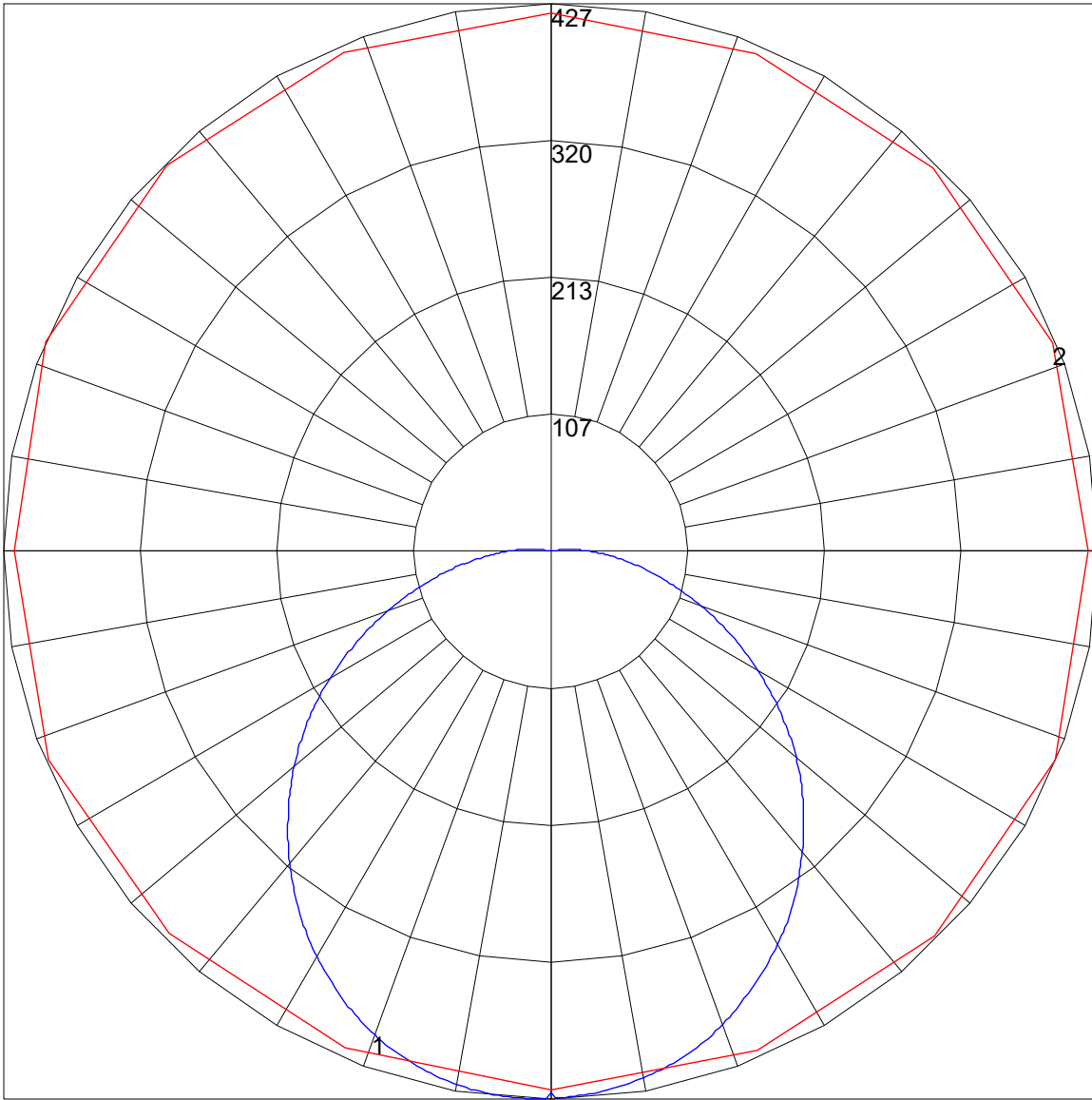
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	105	100	94	90	90	102	97	92	88	91	88	84	87	83	81	82	80	77	75
2	95	86	78	71	71	92	83	76	70	79	73	68	75	70	65	71	67	63	61
3	86	75	66	59	59	83	73	64	58	69	62	56	65	59	54	62	57	53	50
4	79	66	56	49	49	76	64	55	48	61	53	47	58	51	46	55	49	45	42
5	72	58	49	42	42	70	57	48	41	54	46	41	52	45	40	49	43	39	36
6	66	52	43	36	36	64	51	42	36	49	41	35	47	40	35	45	39	34	32
7	62	47	38	32	32	59	46	38	32	44	37	31	42	36	30	41	35	30	28
8	57	43	34	28	28	55	42	34	28	41	33	28	39	32	27	37	31	27	25
9	53	40	31	25	25	52	39	31	25	37	30	25	36	29	24	34	28	24	22
10	50	37	28	23	23	49	36	28	23	34	27	23	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 426.8 Located At Horizontal Angle = 157.5, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)