

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BTRI-PRO-11-LED35-LO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 105054925LAX-001
[TESTLAB] Intertek
[ISSUE DATE] 04/28/2022
[MANUFAC] Prudential Lighting
[LUMCAT] BTRI-PRO-11-LED35-LO-SAL-DM01

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1405
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.13 ft (Diameter)
Luminous Width (90-270)	1.13 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4110	4069	4035
55	4168	4114	4073
65	4332	4289	4244
75	4725	4710	4667
85	7865	7855	7602

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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	408.04	408.04	408.04	408.04	408.04	408.04	408.04	408.04	408.04	408.04
0.5	407.00	406.96	408.12	409.44	408.56	409.44	408.12	406.96	407.00	406.96
1.0	407.12	407.20	408.40	409.40	408.48	409.40	408.40	407.20	407.12	407.20
1.5	407.12	407.16	408.24	409.44	408.44	409.44	408.24	407.16	407.12	407.16
2.0	406.92	407.08	408.04	409.28	408.36	409.28	408.04	407.08	406.92	407.08
2.5	406.84	406.72	407.76	409.12	408.32	409.12	407.76	406.72	406.84	407.76
3.0	406.60	406.28	407.40	409.08	408.12	409.08	407.40	406.28	406.60	407.40
3.5	406.40	405.80	406.96	408.84	408.16	408.84	406.96	405.80	406.40	405.80
4.0	406.20	405.40	406.88	408.68	408.00	408.68	406.88	405.40	406.20	405.40
4.5	406.08	405.20	406.60	408.40	407.80	408.40	406.60	405.20	406.08	405.20
5.0	405.92	405.20	406.32	408.12	407.40	408.12	406.32	405.20	405.92	405.20
5.5	405.52	405.08	406.24	407.72	407.08	407.72	406.24	405.08	405.52	405.08
6.0	405.40	405.28	406.00	407.36	406.64	407.36	406.00	405.28	405.40	405.28
6.5	405.28	404.84	405.84	407.04	406.36	407.04	405.84	404.84	405.28	404.84
7.0	405.08	404.48	405.56	407.08	405.88	407.08	405.56	404.48	405.08	404.48
7.5	404.64	403.88	404.80	406.56	405.24	406.56	404.80	403.88	404.64	403.88
8.0	404.08	403.04	404.28	406.36	404.64	406.36	404.28	403.04	404.08	403.04
8.5	403.64	402.28	403.64	405.60	404.08	405.60	403.64	402.28	403.64	402.28
9.0	402.80	401.72	402.84	404.76	403.32	404.76	402.84	401.72	402.80	401.72
9.5	401.96	401.24	402.20	403.96	402.68	403.96	402.20	401.24	401.96	401.24
10.0	401.24	400.80	401.52	402.96	402.00	402.96	401.52	400.80	401.24	400.80
10.5	400.60	399.88	400.84	402.00	401.08	402.00	400.84	399.88	400.60	399.88
11.0	399.80	399.04	399.96	401.20	400.32	401.20	399.96	399.04	399.80	399.04
11.5	398.72	397.92	398.92	400.20	399.44	400.20	398.92	397.92	398.72	397.92
12.0	397.80	396.80	397.84	399.24	398.48	399.24	397.84	396.80	397.80	396.80
12.5	396.64	395.88	396.76	398.24	397.40	398.24	396.76	395.88	396.64	395.88
13.0	395.44	394.80	395.68	397.36	396.20	397.36	395.68	394.80	395.44	394.80
13.5	394.44	393.72	394.92	396.28	395.20	396.28	394.92	393.72	394.44	393.72
14.0	393.12	392.24	393.72	394.88	393.96	394.88	393.72	392.24	393.12	392.24
14.5	392.16	390.88	392.48	393.64	392.64	393.64	392.48	390.88	392.16	390.88
15.0	390.92	389.44	391.00	392.24	391.36	392.24	391.00	389.44	390.92	389.44
15.5	389.40	388.24	389.64	390.88	390.16	390.88	389.64	388.24	389.40	388.24
16.0	388.24	386.88	388.24	389.64	388.40	389.64	388.24	386.88	388.24	386.88
16.5	386.64	385.56	387.20	388.36	386.88	388.36	387.20	385.56	386.64	385.56
17.0	385.12	384.04	385.72	387.00	385.36	387.00	385.72	384.04	385.12	384.04
17.5	383.88	382.36	384.32	385.56	383.80	385.56	384.32	382.36	383.88	382.36
18.0	382.24	380.76	382.84	384.00	382.20	384.00	382.84	380.76	382.24	380.76
18.5	380.84	379.28	381.20	382.48	380.60	382.48	381.20	379.28	380.84	379.28
19.0	379.16	377.56	379.36	380.84	379.00	380.84	379.36	377.56	379.16	377.56
19.5	377.48	375.84	377.72	379.16	377.16	379.16	377.72	375.84	377.48	375.84
20.0	375.76	374.16	376.16	377.60	375.56	377.60	376.16	374.16	375.76	374.16
20.5	374.08	372.52	374.40	376.00	373.56	376.00	374.40	372.52	374.08	372.52
21.0	372.40	370.72	372.52	374.08	371.88	374.08	372.52	370.72	372.40	370.72
21.5	370.64	368.72	370.68	372.32	370.12	372.32	370.68	368.72	370.64	368.72
22.0	368.80	366.68	368.80	370.48	368.28	370.48	368.80	366.68	368.80	366.68
22.5	366.80	364.76	366.96	368.60	366.08	368.60	366.96	364.76	366.80	364.76
23.0	365.00	362.76	365.20	366.68	364.12	366.68	365.20	362.76	365.00	362.76
23.5	363.08	360.80	363.20	364.80	362.16	364.80	363.20	360.80	363.08	360.80
24.0	361.24	358.84	361.28	362.68	360.04	362.68	361.28	358.84	361.24	358.84
24.5	359.20	356.84	359.28	360.76	357.88	360.76	359.28	356.84	359.20	356.84
25.0	357.08	354.76	357.32	358.76	355.84	358.76	357.32	354.76	357.08	354.76
25.5	355.04	352.52	355.16	356.68	353.64	356.68	355.16	352.52	355.04	352.52
26.0	353.04	350.40	353.08	354.68	351.60	354.68	353.08	350.40	353.04	350.40
26.5	350.72	348.20	350.80	352.44	349.52	352.44	350.80	348.20	350.72	348.20

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27.0	348.64	346.04	348.76	350.20	347.44	350.20	348.76	346.04	348.64	346.04
27.5	346.48	343.80	346.56	348.12	345.00	348.12	346.56	343.80	346.48	343.80
28.0	344.36	341.56	344.20	345.96	342.48	345.96	344.20	341.56	344.36	341.56
28.5	342.32	339.44	341.96	343.80	340.28	343.80	341.96	339.44	342.32	339.44
29.0	340.04	337.40	339.72	341.48	337.96	341.48	339.72	337.40	340.04	337.40
29.5	337.88	335.08	337.36	339.12	335.60	339.12	337.36	335.08	337.88	335.08
30.0	335.64	332.72	335.00	336.88	333.48	336.88	335.00	332.72	335.64	332.72
30.5	333.32	330.36	332.72	334.64	330.92	334.64	332.72	330.36	333.32	330.36
31.0	331.08	328.12	330.36	332.28	328.56	332.28	330.36	328.12	331.08	328.12
31.5	328.88	325.76	327.96	330.00	326.28	330.00	327.96	325.76	328.88	325.76
32.0	326.64	323.52	325.60	327.64	323.96	327.64	325.60	323.52	326.64	323.52
32.5	324.28	321.16	323.20	325.28	321.60	325.28	323.20	321.16	324.28	321.16
33.0	322.08	318.84	321.00	322.92	319.20	322.92	321.00	318.84	322.08	318.84
33.5	319.76	316.52	318.68	320.52	316.72	320.52	318.68	316.52	319.76	316.52
34.0	317.48	314.32	316.36	318.04	314.48	318.04	316.36	314.32	317.48	314.32
34.5	315.28	311.92	314.00	315.80	312.12	315.80	314.00	311.92	315.28	311.92
35.0	313.00	309.60	311.72	313.48	309.80	313.48	311.72	309.60	313.00	309.60
35.5	310.72	307.40	309.40	311.04	307.44	311.04	309.40	307.40	310.72	307.40
36.0	308.44	304.88	307.08	308.60	305.00	308.60	307.08	304.88	308.44	304.88
36.5	306.20	302.48	304.92	306.36	302.60	306.36	304.92	302.48	306.20	302.48
37.0	303.88	300.20	302.40	303.96	300.24	303.96	302.40	300.20	303.88	300.20
37.5	301.56	297.84	299.92	301.56	297.80	301.56	299.92	297.84	301.56	297.84
38.0	299.28	295.64	297.56	299.32	295.52	299.32	297.56	295.64	299.28	295.64
38.5	297.00	293.24	295.28	296.96	293.16	296.96	295.28	293.24	297.00	293.24
39.0	294.72	291.12	292.96	294.60	290.80	294.60	292.96	291.12	294.72	291.12
39.5	292.52	289.40	290.60	292.32	289.00	292.32	290.60	289.40	292.52	289.40
40.0	291.00	286.92	288.80	289.76	286.72	289.76	288.80	286.92	291.00	286.92
40.5	288.76	284.52	286.56	287.88	284.40	287.88	286.56	284.52	288.76	284.52
41.0	286.44	282.60	284.44	285.64	282.36	285.64	284.44	282.60	286.44	282.60
41.5	284.04	280.64	282.52	283.56	280.44	283.56	282.52	280.64	284.04	280.64
42.0	281.80	278.24	280.16	281.72	278.04	281.72	280.16	278.24	281.80	278.24
42.5	279.56	275.96	277.80	279.32	275.72	279.32	277.80	275.96	279.56	275.96
43.0	277.96	273.52	275.44	277.00	273.32	277.00	275.44	273.52	277.96	273.52
43.5	275.68	271.24	273.04	274.68	270.88	274.68	273.04	271.24	275.68	271.24
44.0	273.24	268.84	270.72	272.32	268.48	272.32	270.72	268.84	273.24	268.84
44.5	270.96	266.52	268.44	270.00	266.12	270.00	268.44	266.52	270.96	266.52
45.0	268.64	264.16	265.96	267.60	263.72	267.60	265.96	264.16	268.64	264.16
45.5	266.32	261.88	263.60	265.20	261.36	265.20	263.60	261.88	266.32	261.88
46.0	264.20	259.44	261.24	262.84	258.96	262.84	261.24	259.44	264.20	259.44
46.5	261.80	257.12	258.88	260.44	256.56	260.44	258.88	257.12	261.80	257.12
47.0	259.52	254.72	256.44	257.96	254.12	257.96	256.44	254.72	259.52	254.72
47.5	257.16	252.40	254.08	255.48	251.72	255.48	254.08	252.40	257.16	252.40
48.0	254.80	250.00	251.60	253.04	249.32	253.04	251.60	250.00	254.80	250.00
48.5	252.40	247.68	249.24	250.56	247.00	250.56	249.24	247.68	252.40	247.68
49.0	250.00	245.24	246.84	248.16	244.60	248.16	246.84	245.24	250.00	245.24
49.5	247.60	242.84	244.44	245.80	242.20	245.80	244.44	242.84	247.60	242.84
50.0	245.12	240.44	242.00	243.40	239.80	243.40	242.00	240.44	245.12	240.44
50.5	242.80	238.04	239.64	241.00	237.36	241.00	239.64	238.04	242.80	238.04
51.0	240.36	235.68	237.20	238.56	235.08	238.56	237.20	235.68	240.36	235.68
51.5	237.96	233.24	234.80	236.20	232.68	236.20	234.80	233.24	237.96	233.24
52.0	235.56	230.88	232.48	233.80	230.28	233.80	232.48	230.88	235.56	230.88
52.5	233.20	228.44	230.12	231.36	227.84	231.36	230.12	228.44	233.20	228.44
53.0	230.72	226.04	227.68	229.00	225.48	229.00	227.68	226.04	230.72	226.04
53.5	228.24	223.64	225.24	226.56	223.12	226.56	225.24	223.64	228.24	223.64
54.0	225.84	221.28	222.80	224.16	220.68	224.16	222.80	221.28	225.84	221.28
54.5	223.40	218.88	220.48	221.76	218.36	221.76	220.48	218.88	223.40	218.88

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55.0	220.96	216.48	218.12	219.28	215.96	219.28	218.12	216.48	220.96	216.48
55.5	218.52	214.00	215.64	216.92	213.60	216.92	215.64	214.00	218.52	214.00
56.0	216.12	211.60	213.28	214.44	211.20	214.44	213.28	211.60	216.12	211.60
56.5	213.56	209.16	210.80	211.92	208.68	211.92	210.80	209.16	213.56	209.16
57.0	211.08	206.72	208.40	209.48	206.32	209.48	208.40	206.72	211.08	206.72
57.5	208.60	204.28	205.92	207.04	203.88	207.04	205.92	204.28	208.60	204.28
58.0	206.12	201.84	203.40	204.48	201.40	204.48	203.40	201.84	206.12	201.84
58.5	203.56	199.40	200.92	202.04	199.00	202.04	200.92	199.40	203.56	199.40
59.0	201.08	196.96	198.48	199.52	196.52	199.52	198.48	196.96	201.08	196.96
59.5	198.52	194.48	196.00	196.96	194.00	196.96	196.00	194.48	198.52	194.48
60.0	196.00	191.92	193.40	194.48	191.52	194.48	193.40	191.92	196.00	191.92
60.5	193.40	189.40	190.88	191.96	188.96	191.96	190.88	189.40	193.40	189.40
61.0	190.76	186.88	188.36	189.44	186.44	189.44	188.36	186.88	190.76	186.88
61.5	188.20	184.36	185.80	186.88	183.92	186.88	185.80	184.36	188.20	184.36
62.0	185.56	181.84	183.20	184.32	181.40	184.32	183.20	181.84	185.56	181.84
62.5	182.84	179.24	180.64	181.76	178.84	181.76	180.64	179.24	182.84	179.24
63.0	180.12	176.64	178.04	179.16	176.24	179.16	178.04	176.64	180.12	176.64
63.5	177.44	174.08	175.40	176.60	173.60	176.60	175.40	174.08	177.44	174.08
64.0	174.76	171.44	172.80	174.00	171.00	174.00	172.80	171.44	174.76	171.44
64.5	171.96	168.84	170.16	171.36	168.40	171.36	170.16	168.84	171.96	168.84
65.0	169.24	166.20	167.56	168.76	165.80	168.76	167.56	166.20	169.24	166.20
65.5	166.48	163.48	164.92	166.08	163.16	166.08	164.92	163.48	166.48	163.48
66.0	163.72	160.84	162.28	163.40	160.48	163.40	162.28	160.84	163.72	160.84
66.5	160.96	158.20	159.60	160.72	157.88	160.72	159.60	158.20	160.96	158.20
67.0	158.20	155.48	156.96	158.08	155.20	158.08	156.96	155.48	158.20	155.48
67.5	155.36	152.76	154.36	155.36	152.64	155.36	154.36	152.76	155.36	152.76
68.0	152.60	150.00	151.64	152.64	149.92	152.64	151.64	150.00	152.60	150.00
68.5	149.84	147.24	148.92	149.92	147.24	149.92	148.92	147.24	149.84	147.24
69.0	147.04	144.48	146.24	147.16	144.56	147.16	146.24	144.48	147.04	144.48
69.5	144.20	141.76	143.52	144.44	141.92	144.44	143.52	141.76	144.20	141.76
70.0	141.48	139.00	140.80	141.68	139.24	141.68	140.80	139.00	141.48	139.00
70.5	138.68	136.28	138.12	138.96	136.52	138.96	138.12	136.28	138.68	136.28
71.0	135.80	133.52	135.36	136.16	133.80	136.16	135.36	133.52	135.80	133.52
71.5	133.04	130.72	132.60	133.40	131.08	133.40	132.60	130.72	133.04	130.72
72.0	130.24	127.96	129.80	130.52	128.32	130.52	129.80	127.96	130.24	127.96
72.5	127.44	125.16	127.00	127.76	125.60	127.76	127.00	125.16	127.44	125.16
73.0	124.60	122.36	124.20	124.96	122.88	124.96	124.20	122.36	124.60	122.36
73.5	121.68	119.56	121.32	122.12	120.16	122.12	121.32	119.56	121.68	119.56
74.0	118.80	116.76	118.44	119.28	117.48	119.28	118.44	116.76	118.80	116.76
74.5	115.92	113.96	115.60	116.44	114.64	116.44	115.60	113.96	115.92	113.96
75.0	113.04	111.12	112.68	113.48	111.64	113.48	112.68	111.12	113.04	111.12
75.5	110.12	108.28	109.76	110.68	108.68	110.68	109.76	108.28	110.12	108.28
76.0	107.20	105.44	106.88	107.80	105.76	107.80	106.88	105.44	107.20	105.44
76.5	104.36	102.64	104.00	104.96	102.88	104.96	104.00	102.64	104.36	102.64
77.0	101.52	99.80	101.20	102.12	100.04	102.12	101.20	99.80	101.52	99.80
77.5	98.72	97.00	98.44	99.44	97.20	99.44	98.44	97.00	98.72	97.00
78.0	96.00	94.24	95.72	96.68	94.36	96.68	95.72	94.24	96.00	94.24
78.5	93.32	91.56	93.08	94.04	91.60	94.04	93.08	91.56	93.32	91.56
79.0	90.64	88.92	90.44	91.44	88.92	91.44	90.44	88.92	90.64	88.92
79.5	88.04	86.28	87.88	88.88	86.28	88.88	87.88	86.28	88.04	86.28
80.0	85.44	83.72	85.36	86.40	83.68	86.40	85.36	83.72	85.44	83.72
80.5	82.96	81.24	82.88	83.96	81.20	83.96	82.88	81.24	82.96	81.24
81.0	80.52	78.80	80.48	81.52	78.72	81.52	80.48	78.80	80.52	78.80
81.5	78.20	76.40	78.12	79.20	76.36	79.20	78.12	76.40	78.20	76.40
82.0	75.88	74.04	75.88	76.88	74.04	76.88	75.88	74.04	75.88	74.04
82.5	73.68	71.76	73.64	74.68	71.76	74.68	73.64	71.76	73.68	71.76

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CANDELA TABULATION - (Cont.)

83.0	71.48	69.56	71.48	72.48	69.56	72.48	71.48	69.56	71.48	69.56
83.5	69.36	67.44	69.32	70.36	67.40	70.36	69.32	67.44	69.36	67.44
84.0	67.32	65.32	67.24	68.28	65.24	68.28	67.24	65.32	67.32	65.32
84.5	65.32	63.28	65.24	66.20	63.20	66.20	65.24	63.28	65.32	63.28
85.0	63.36	61.24	63.28	64.16	61.24	64.16	63.28	61.24	63.36	61.24
85.5	61.52	59.36	61.36	62.24	59.32	62.24	61.36	59.36	61.52	59.36
86.0	59.68	57.52	59.52	60.40	57.44	60.40	59.52	57.52	59.68	57.52
86.5	57.88	55.76	57.72	58.56	55.68	58.56	57.72	55.76	57.88	55.76
87.0	56.16	54.04	55.96	56.80	53.92	56.80	55.96	54.04	56.16	54.04
87.5	54.52	52.36	54.32	55.12	52.28	55.12	54.32	52.36	54.52	52.36
88.0	52.96	50.80	52.72	53.56	50.68	53.56	52.72	50.80	52.96	50.80
88.5	51.44	49.36	51.28	52.08	49.20	52.08	51.28	49.36	51.44	49.36
89.0	50.04	48.00	49.88	50.68	47.80	50.68	49.88	48.00	50.04	48.00
89.5	48.72	46.72	48.60	49.40	46.52	49.40	48.60	46.72	48.72	46.72
90.0	47.68	45.76	47.56	48.32	45.44	48.32	47.56	45.76	47.68	45.76
90.5	46.92	45.00	46.76	47.52	44.64	47.52	46.76	45.00	46.92	45.00
91.0	46.24	44.36	46.12	46.84	44.00	46.84	46.12	44.36	46.24	44.36
91.5	45.64	43.80	45.52	46.24	43.36	46.24	45.52	43.80	45.64	43.80
92.0	45.08	43.24	44.96	45.68	42.80	45.68	44.96	43.24	45.08	43.24
92.5	44.52	42.72	44.40	45.12	42.20	45.12	44.40	42.72	44.52	42.72
93.0	44.00	42.20	43.88	44.56	41.68	44.56	43.88	42.20	44.00	42.20
93.5	43.44	41.68	43.36	44.00	41.12	44.00	43.36	41.68	43.44	41.68
94.0	42.92	41.16	42.84	43.48	40.60	43.48	42.84	41.16	42.92	41.16
94.5	42.44	40.68	42.36	42.96	40.08	42.96	42.36	40.68	42.44	40.68
95.0	41.96	40.20	41.84	42.48	39.56	42.48	41.84	40.20	41.96	40.20
95.5	41.44	39.72	41.36	42.00	39.08	42.00	41.36	39.72	41.44	39.72
96.0	41.00	39.24	40.84	41.48	38.60	41.48	40.84	39.24	41.00	39.24
96.5	40.52	38.80	40.32	40.96	38.12	40.96	40.32	38.80	40.52	38.80
97.0	40.04	38.28	39.80	40.48	37.68	40.48	39.80	38.28	40.04	38.28
97.5	39.56	37.80	39.32	39.96	37.20	39.96	39.32	37.80	39.56	37.80
98.0	39.08	37.32	38.80	39.44	36.76	39.44	38.80	37.32	39.08	37.32
98.5	38.60	36.80	38.32	38.92	36.32	38.92	38.32	36.80	38.60	36.80
99.0	38.12	36.32	37.80	38.44	35.84	38.44	37.80	36.32	38.12	36.32
99.5	37.64	35.80	37.28	37.96	35.40	37.96	37.28	35.80	37.64	35.80
100.0	37.20	35.32	36.80	37.44	34.96	37.44	36.80	35.32	37.20	35.32
100.5	36.76	34.80	36.32	36.96	34.52	36.96	36.32	34.80	36.76	34.80
101.0	36.32	34.36	35.84	36.52	34.08	36.52	35.84	34.36	36.32	34.36
101.5	35.88	33.92	35.40	36.04	33.64	36.04	35.40	33.92	35.88	33.92
102.0	35.48	33.44	34.96	35.56	33.20	35.56	34.96	33.44	35.48	33.44
102.5	35.04	33.04	34.48	35.12	32.80	35.12	34.48	33.04	35.04	33.04
103.0	34.64	32.60	34.08	34.68	32.36	34.68	34.08	32.60	34.64	32.60
103.5	34.24	32.20	33.64	34.24	31.92	34.24	33.64	32.20	34.24	32.20
104.0	33.84	31.80	33.24	33.84	31.52	33.84	33.24	31.80	33.84	31.80
104.5	33.44	31.40	32.84	33.40	31.08	33.40	32.84	31.40	33.44	31.40
105.0	33.04	31.00	32.40	33.00	30.68	33.00	32.40	31.00	33.04	31.00
105.5	32.64	30.64	32.04	32.60	30.28	32.60	32.04	30.64	32.64	30.64
106.0	32.24	30.28	31.64	32.24	29.88	32.24	31.64	30.28	32.24	30.28
106.5	31.84	29.96	31.28	31.84	29.52	31.84	31.28	29.96	31.84	29.96
107.0	31.48	29.60	30.96	31.44	29.16	31.44	30.96	29.60	31.48	29.60
107.5	31.08	29.28	30.60	31.08	28.76	31.08	30.60	29.28	31.08	29.28
108.0	30.72	28.92	30.28	30.72	28.40	30.72	30.28	28.92	30.72	28.92
108.5	30.36	28.56	29.92	30.36	28.00	30.36	29.92	28.56	30.36	28.56
109.0	30.04	28.20	29.60	30.04	27.64	30.04	29.60	28.20	30.04	28.20
109.5	29.68	27.88	29.24	29.68	27.28	29.68	29.24	27.88	29.68	27.88
110.0	29.32	27.52	28.88	29.36	26.96	29.36	28.88	27.52	29.32	27.52
110.5	28.96	27.16	28.52	29.00	26.60	29.00	28.52	27.16	28.96	27.16

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CANDELA TABULATION - (Cont.)

111.0	28.60	26.80	28.20	28.68	26.24	28.68	28.20	26.80	28.60	26.80
111.5	28.24	26.44	27.84	28.32	25.88	28.32	27.84	26.44	28.24	26.44
112.0	27.92	26.08	27.48	28.00	25.56	28.00	27.48	26.08	27.92	26.08
112.5	27.60	25.72	27.12	27.64	25.24	27.64	27.12	25.72	27.60	25.72
113.0	27.28	25.40	26.80	27.32	24.96	27.32	26.80	25.40	27.28	25.40
113.5	26.96	25.08	26.44	27.00	24.64	27.00	26.44	25.08	26.96	25.08
114.0	26.64	24.76	26.08	26.64	24.32	26.64	26.08	24.76	26.64	24.76
114.5	26.36	24.44	25.72	26.32	24.04	26.32	25.72	24.44	26.36	24.44
115.0	26.04	24.16	25.36	25.96	23.76	25.96	25.36	24.16	26.04	24.16
115.5	25.76	23.88	25.04	25.64	23.44	25.64	25.04	23.88	25.76	23.88
116.0	25.44	23.64	24.72	25.32	23.16	25.32	24.72	23.64	25.44	23.64
116.5	25.16	23.40	24.36	24.96	22.88	24.96	24.36	23.40	25.16	23.40
117.0	24.88	23.16	24.04	24.64	22.64	24.64	24.04	23.16	24.88	23.16
117.5	24.60	22.88	23.68	24.32	22.36	24.32	23.68	22.88	24.60	22.88
118.0	24.32	22.64	23.36	24.00	22.08	24.00	23.36	22.64	24.32	22.64
118.5	24.04	22.36	23.08	23.64	21.80	23.64	23.08	22.36	24.04	22.36
119.0	23.80	22.12	22.80	23.32	21.52	23.32	22.80	22.12	23.80	22.12
119.5	23.52	21.84	22.52	23.00	21.28	23.00	22.52	21.84	23.52	21.84
120.0	23.24	21.60	22.24	22.68	21.00	22.68	22.24	21.60	23.24	21.60
120.5	23.00	21.36	21.96	22.36	20.76	22.36	21.96	21.36	23.00	21.36
121.0	22.72	21.08	21.68	22.04	20.48	22.04	21.68	21.08	22.72	21.08
121.5	22.44	20.84	21.44	21.68	20.24	21.68	21.44	20.84	22.44	20.84
122.0	22.20	20.60	21.12	21.32	20.00	21.32	21.12	20.60	22.20	20.60
122.5	21.92	20.40	20.84	21.00	19.76	21.00	20.84	20.40	21.92	20.40
123.0	21.68	20.12	20.56	20.72	19.48	20.72	20.56	20.12	21.68	20.12
123.5	21.40	19.92	20.28	20.40	19.24	20.40	20.28	19.92	21.40	19.92
124.0	21.16	19.68	20.00	20.12	19.00	20.12	20.00	19.68	21.16	19.68
124.5	20.88	19.44	19.72	19.84	18.76	19.84	19.72	19.44	20.88	19.44
125.0	20.64	19.20	19.44	19.56	18.52	19.56	19.44	19.20	20.64	19.20
125.5	20.36	19.00	19.20	19.32	18.28	19.32	19.20	19.00	20.36	19.00
126.0	20.12	18.76	18.92	19.04	18.04	19.04	18.92	18.76	20.12	18.76
126.5	19.84	18.52	18.64	18.80	17.80	18.80	18.64	18.52	19.84	18.52
127.0	19.60	18.32	18.36	18.52	17.56	18.52	18.36	18.32	19.60	18.32
127.5	19.32	18.08	18.08	18.24	17.36	18.24	18.08	18.08	19.32	18.08
128.0	19.04	17.88	17.80	17.96	17.16	17.96	17.80	17.88	19.04	17.88
128.5	18.80	17.64	17.52	17.68	16.96	17.68	17.52	17.64	18.80	17.64
129.0	18.52	17.44	17.28	17.44	16.76	17.44	17.28	17.44	18.52	17.44
129.5	18.24	17.20	16.96	17.16	16.60	17.16	16.96	17.20	18.24	17.20
130.0	18.00	16.96	16.68	16.84	16.40	16.84	16.68	16.96	18.00	16.96
130.5	17.72	16.72	16.40	16.56	16.20	16.56	16.40	16.72	17.72	16.72
131.0	17.44	16.52	16.16	16.28	16.04	16.28	16.16	16.52	17.44	16.52
131.5	17.16	16.28	15.88	16.00	15.88	16.00	15.88	16.28	17.16	16.28
132.0	16.88	16.04	15.60	15.72	15.68	15.72	15.60	16.04	16.88	16.04
132.5	16.56	15.80	15.36	15.44	15.48	15.44	15.36	15.80	16.56	15.80
133.0	16.28	15.56	15.08	15.16	15.28	15.16	15.08	15.56	16.28	15.56
133.5	15.96	15.32	14.84	14.92	15.08	14.92	14.84	15.32	15.96	15.32
134.0	15.68	15.08	14.60	14.64	14.84	14.64	14.60	15.08	15.68	15.08
134.5	15.36	14.84	14.36	14.40	14.64	14.40	14.36	14.84	15.36	14.84
135.0	15.04	14.60	14.12	14.16	14.44	14.16	14.12	14.60	15.04	14.60
135.5	14.72	14.36	13.88	13.92	14.20	13.92	13.88	14.36	14.72	14.36
136.0	14.40	14.12	13.60	13.68	13.96	13.68	13.60	14.12	14.40	14.12
136.5	14.08	13.88	13.36	13.44	13.76	13.44	13.36	13.88	14.08	13.88
137.0	13.76	13.64	13.12	13.16	13.52	13.16	13.12	13.64	13.76	13.64
137.5	13.44	13.40	12.92	12.96	13.32	12.96	12.92	13.40	13.44	13.40
138.0	13.08	13.16	12.68	12.72	13.08	12.72	12.68	13.16	13.08	13.16
138.5	12.76	12.88	12.44	12.48	12.84	12.48	12.44	12.88	12.76	12.88

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CANDELA TABULATION - (Cont.)

139.0	12.44	12.64	12.24	12.24	12.60	12.24	12.24	12.64	12.44	12.64
139.5	12.08	12.40	12.00	12.00	12.36	12.00	12.00	12.40	12.08	12.40
140.0	11.76	12.12	11.80	11.76	12.12	11.76	11.80	12.12	11.76	12.12
140.5	11.40	11.88	11.56	11.56	11.88	11.56	11.56	11.88	11.40	11.88
141.0	11.08	11.60	11.36	11.32	11.64	11.32	11.36	11.60	11.08	11.60
141.5	10.76	11.36	11.12	11.08	11.36	11.08	11.12	11.36	10.76	11.36
142.0	10.40	11.08	10.92	10.84	11.08	10.84	10.92	11.08	10.40	11.08
142.5	10.12	10.84	10.72	10.64	10.80	10.64	10.72	10.84	10.12	10.84
143.0	9.80	10.56	10.48	10.40	10.52	10.40	10.48	10.56	9.80	10.56
143.5	9.52	10.28	10.28	10.16	10.28	10.16	10.28	10.28	9.52	10.28
144.0	9.24	10.00	10.08	9.96	10.00	9.96	10.08	10.00	9.24	10.00
144.5	8.96	9.76	9.84	9.72	9.72	9.72	9.84	9.76	8.96	9.76
145.0	8.72	9.48	9.60	9.48	9.44	9.48	9.60	9.48	8.72	9.48
145.5	8.44	9.20	9.40	9.24	9.16	9.24	9.40	9.20	8.44	9.20
146.0	8.20	8.92	9.16	9.00	8.88	9.00	9.16	8.92	8.20	8.92
146.5	7.92	8.64	8.92	8.76	8.60	8.76	8.92	8.64	7.92	8.64
147.0	7.64	8.36	8.68	8.52	8.32	8.52	8.68	8.36	7.64	8.36
147.5	7.40	8.12	8.48	8.24	8.04	8.24	8.48	8.12	7.40	8.12
148.0	7.12	7.84	8.24	8.00	7.76	8.00	8.24	7.84	7.12	7.84
148.5	6.88	7.60	8.00	7.76	7.48	7.76	8.00	7.60	6.88	7.60
149.0	6.68	7.32	7.76	7.48	7.20	7.48	7.76	7.32	6.68	7.32
149.5	6.44	7.08	7.52	7.24	6.96	7.24	7.52	7.08	6.44	7.08
150.0	6.24	6.80	7.28	6.96	6.68	6.96	7.28	6.80	6.24	6.80
150.5	6.00	6.56	7.04	6.72	6.40	6.72	7.04	6.56	6.00	6.56
151.0	5.80	6.32	6.80	6.48	6.16	6.48	6.80	6.32	5.80	6.32
151.5	5.60	6.04	6.52	6.20	5.88	6.20	6.52	6.04	5.60	6.04
152.0	5.40	5.80	6.28	5.96	5.64	5.96	6.28	5.80	5.40	5.80
152.5	5.20	5.60	6.04	5.68	5.40	5.68	6.04	5.60	5.20	5.60
153.0	5.00	5.36	5.80	5.44	5.16	5.44	5.80	5.36	5.00	5.36
153.5	4.80	5.16	5.56	5.16	4.96	5.16	5.56	5.16	4.80	5.16
154.0	4.60	4.96	5.28	4.92	4.72	4.92	5.28	4.96	4.60	4.96
154.5	4.44	4.80	5.04	4.68	4.52	4.68	5.04	4.80	4.44	4.80
155.0	4.24	4.60	4.84	4.44	4.28	4.44	4.84	4.60	4.24	4.60
155.5	4.08	4.40	4.60	4.20	4.08	4.20	4.60	4.40	4.08	4.40
156.0	3.92	4.24	4.40	4.00	3.84	4.00	4.40	4.24	3.92	4.24
156.5	3.76	4.04	4.20	3.80	3.64	3.80	4.20	4.04	3.76	4.04
157.0	3.60	3.88	4.00	3.60	3.40	3.60	4.00	3.88	3.60	3.88
157.5	3.44	3.68	3.84	3.44	3.16	3.44	3.84	3.68	3.44	3.68
158.0	3.32	3.52	3.64	3.24	2.96	3.24	3.64	3.52	3.32	3.52
158.5	3.16	3.36	3.48	3.08	2.76	3.08	3.48	3.36	3.16	3.36
159.0	3.00	3.20	3.28	2.88	2.52	2.88	3.28	3.20	3.00	3.20
159.5	2.88	3.00	3.12	2.72	2.32	2.72	3.12	3.00	2.88	3.00
160.0	2.76	2.84	2.92	2.56	2.16	2.56	2.92	2.84	2.76	2.84
160.5	2.64	2.68	2.76	2.44	1.96	2.44	2.76	2.68	2.64	2.68
161.0	2.48	2.56	2.60	2.28	1.80	2.28	2.60	2.56	2.48	2.56
161.5	2.40	2.40	2.44	2.12	1.64	2.12	2.44	2.40	2.40	2.40
162.0	2.28	2.24	2.32	2.00	1.48	2.00	2.32	2.24	2.28	2.24
162.5	2.16	2.12	2.16	1.88	1.36	1.88	2.16	2.12	2.16	2.12
163.0	2.08	2.00	2.00	1.72	1.24	1.72	2.00	2.00	2.08	2.00
163.5	1.96	1.88	1.88	1.60	1.16	1.60	1.88	1.88	1.96	1.88
164.0	1.88	1.76	1.72	1.48	1.04	1.48	1.72	1.76	1.88	1.76
164.5	1.80	1.68	1.60	1.36	0.96	1.36	1.60	1.68	1.80	1.68
165.0	1.68	1.56	1.48	1.24	0.92	1.24	1.48	1.56	1.68	1.56
165.5	1.60	1.48	1.36	1.12	0.84	1.12	1.36	1.48	1.60	1.48
166.0	1.52	1.40	1.24	1.04	0.80	1.04	1.24	1.40	1.52	1.40
166.5	1.44	1.32	1.12	0.96	0.76	0.96	1.12	1.32	1.44	1.32

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CANDELA TABULATION - (Cont.)

167.0	1.32	1.24	1.04	0.88	0.68	0.88	1.04	1.24	1.32	1.24
167.5	1.24	1.20	0.96	0.80	0.64	0.80	0.96	1.20	1.24	1.20
168.0	1.16	1.12	0.88	0.76	0.60	0.76	0.88	1.12	1.16	1.12
168.5	1.08	1.04	0.84	0.72	0.52	0.72	0.84	1.04	1.08	1.04
169.0	1.04	0.96	0.76	0.64	0.52	0.64	0.76	0.96	1.04	0.96
169.5	0.96	0.88	0.72	0.64	0.48	0.64	0.72	0.88	0.96	0.88
170.0	0.88	0.80	0.68	0.60	0.44	0.60	0.68	0.80	0.88	0.80
170.5	0.80	0.76	0.64	0.56	0.40	0.56	0.64	0.76	0.80	0.76
171.0	0.72	0.68	0.60	0.52	0.36	0.52	0.60	0.68	0.72	0.68
171.5	0.68	0.64	0.56	0.48	0.32	0.48	0.56	0.64	0.68	0.64
172.0	0.60	0.56	0.52	0.48	0.32	0.48	0.52	0.56	0.60	0.56
172.5	0.52	0.52	0.44	0.44	0.28	0.44	0.44	0.52	0.52	0.52
173.0	0.44	0.48	0.36	0.40	0.24	0.40	0.36	0.48	0.44	0.48
173.5	0.40	0.44	0.32	0.36	0.24	0.36	0.32	0.44	0.40	0.44
174.0	0.36	0.40	0.28	0.28	0.20	0.28	0.28	0.40	0.36	0.40
174.5	0.32	0.32	0.24	0.24	0.16	0.24	0.24	0.32	0.32	0.32
175.0	0.28	0.28	0.24	0.20	0.12	0.20	0.24	0.28	0.28	0.28
175.5	0.24	0.20	0.20	0.16	0.12	0.16	0.20	0.20	0.24	0.20
176.0	0.20	0.16	0.16	0.12	0.08	0.12	0.16	0.16	0.20	0.16
176.5	0.16	0.16	0.12	0.12	0.04	0.12	0.12	0.16	0.16	0.16
177.0	0.16	0.12	0.08	0.08	0.04	0.08	0.08	0.12	0.16	0.12
177.5	0.12	0.12	0.08	0.04	0.04	0.04	0.08	0.12	0.12	0.12
178.0	0.08	0.08	0.08	0.04	0.00	0.04	0.08	0.08	0.08	0.08
178.5	0.08	0.08	0.04	0.04	0.00	0.04	0.04	0.08	0.08	0.08
179.0	0.04	0.04	0.04	0.04	0.00	0.04	0.04	0.04	0.04	0.04
179.5	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04
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
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	408.04	408.04	408.04	408.04	408.04	408.04	408.04
0.5	408.12	409.44	408.56	409.44	408.12	406.96	407.00
1.0	408.40	409.40	408.48	409.40	408.40	407.20	407.12
1.5	408.24	409.44	408.44	409.44	408.24	407.16	407.12
2.0	408.04	409.28	408.36	409.28	408.04	407.08	406.92
2.5	407.76	409.12	408.32	409.12	407.76	406.72	406.84
3.0	407.40	409.08	408.12	409.08	407.40	406.28	406.60
3.5	406.96	408.84	408.16	408.84	406.96	405.80	406.40
4.0	406.88	408.68	408.00	408.68	406.88	405.40	406.20
4.5	406.60	408.40	407.80	408.40	406.60	405.20	406.08
5.0	406.32	408.12	407.40	408.12	406.32	405.20	405.92
5.5	406.24	407.72	407.08	407.72	406.24	405.08	405.52
6.0	406.00	407.36	406.64	407.36	406.00	405.28	405.40
6.5	405.84	407.04	406.36	407.04	405.84	404.84	405.28
7.0	405.56	407.08	405.88	407.08	405.56	404.48	405.08
7.5	404.80	406.56	405.24	406.56	404.80	403.88	404.64
8.0	404.28	406.36	404.64	406.36	404.28	403.04	404.08
8.5	403.64	405.60	404.08	405.60	403.64	402.28	403.64
9.0	402.84	404.76	403.32	404.76	402.84	401.72	402.80
9.5	402.20	403.96	402.68	403.96	402.20	401.24	401.96
10.0	401.52	402.96	402.00	402.96	401.52	400.80	401.24
10.5	400.84	402.00	401.08	402.00	400.84	399.88	400.60
11.0	399.96	401.20	400.32	401.20	399.96	399.04	399.80
11.5	398.92	400.20	399.44	400.20	398.92	397.92	398.72
12.0	397.84	399.24	398.48	399.24	397.84	396.80	397.80

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CANDELA TABULATION - (Cont.)

12.5	396.76	398.24	397.40	398.24	396.76	395.88	396.64
13.0	395.68	397.36	396.20	397.36	395.68	394.80	395.44
13.5	394.92	396.28	395.20	396.28	394.92	393.72	394.44
14.0	393.72	394.88	393.96	394.88	393.72	392.24	393.12
14.5	392.48	393.64	392.64	393.64	392.48	390.88	392.16
15.0	391.00	392.24	391.36	392.24	391.00	389.44	390.92
15.5	389.64	390.88	390.16	390.88	389.64	388.24	389.40
16.0	388.24	389.64	388.40	389.64	388.24	386.88	388.24
16.5	387.20	388.36	386.88	388.36	387.20	385.56	386.64
17.0	385.72	387.00	385.36	387.00	385.72	384.04	385.12
17.5	384.32	385.56	383.80	385.56	384.32	382.36	383.88
18.0	382.84	384.00	382.20	384.00	382.84	380.76	382.24
18.5	381.20	382.48	380.60	382.48	381.20	379.28	380.84
19.0	379.36	380.84	379.00	380.84	379.36	377.56	379.16
19.5	377.72	379.16	377.16	379.16	377.72	375.84	377.48
20.0	376.16	377.60	375.56	377.60	376.16	374.16	375.76
20.5	374.40	376.00	373.56	376.00	374.40	372.52	374.08
21.0	372.52	374.08	371.88	374.08	372.52	370.72	372.40
21.5	370.68	372.32	370.12	372.32	370.68	368.72	370.64
22.0	368.80	370.48	368.28	370.48	368.80	366.68	368.80
22.5	366.96	368.60	366.08	368.60	366.96	364.76	366.80
23.0	365.20	366.68	364.12	366.68	365.20	362.76	365.00
23.5	363.20	364.80	362.16	364.80	363.20	360.80	363.08
24.0	361.28	362.68	360.04	362.68	361.28	358.84	361.24
24.5	359.28	360.76	357.88	360.76	359.28	356.84	359.20
25.0	357.32	358.76	355.84	358.76	357.32	354.76	357.08
25.5	355.16	356.68	353.64	356.68	355.16	352.52	355.04
26.0	353.08	354.68	351.60	354.68	353.08	350.40	353.04
26.5	350.80	352.44	349.52	352.44	350.80	348.20	350.72
27.0	348.76	350.20	347.44	350.20	348.76	346.04	348.64
27.5	346.56	348.12	345.00	348.12	346.56	343.80	346.48
28.0	344.20	345.96	342.48	345.96	344.20	341.56	344.36
28.5	341.96	343.80	340.28	343.80	341.96	339.44	342.32
29.0	339.72	341.48	337.96	341.48	339.72	337.40	340.04
29.5	337.36	339.12	335.60	339.12	337.36	335.08	337.88
30.0	335.00	336.88	333.48	336.88	335.00	332.72	335.64
30.5	332.72	334.64	330.92	334.64	332.72	330.36	333.32
31.0	330.36	332.28	328.56	332.28	330.36	328.12	331.08
31.5	327.96	330.00	326.28	330.00	327.96	325.76	328.88
32.0	325.60	327.64	323.96	327.64	325.60	323.52	326.64
32.5	323.20	325.28	321.60	325.28	323.20	321.16	324.28
33.0	321.00	322.92	319.20	322.92	321.00	318.84	322.08
33.5	318.68	320.52	316.72	320.52	318.68	316.52	319.76
34.0	316.36	318.04	314.48	318.04	316.36	314.32	317.48
34.5	314.00	315.80	312.12	315.80	314.00	311.92	315.28
35.0	311.72	313.48	309.80	313.48	311.72	309.60	313.00
35.5	309.40	311.04	307.44	311.04	309.40	307.40	310.72
36.0	307.08	308.60	305.00	308.60	307.08	304.88	308.44
36.5	304.92	306.36	302.60	306.36	304.92	302.48	306.20
37.0	302.40	303.96	300.24	303.96	302.40	300.20	303.88
37.5	299.92	301.56	297.80	301.56	299.92	297.84	301.56
38.0	297.56	299.32	295.52	299.32	297.56	295.64	299.28
38.5	295.28	296.96	293.16	296.96	295.28	293.24	297.00
39.0	292.96	294.60	290.80	294.60	292.96	291.12	294.72
39.5	290.60	292.32	289.00	292.32	290.60	289.40	292.52
40.0	288.80	289.76	286.72	289.76	288.80	286.92	291.00

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CANDELA TABULATION - (Cont.)

40.5	286.56	287.88	284.40	287.88	286.56	284.52	288.76
41.0	284.44	285.64	282.36	285.64	284.44	282.60	286.44
41.5	282.52	283.56	280.44	283.56	282.52	280.64	284.04
42.0	280.16	281.72	278.04	281.72	280.16	278.24	281.80
42.5	277.80	279.32	275.72	279.32	277.80	275.96	279.56
43.0	275.44	277.00	273.32	277.00	275.44	273.52	277.96
43.5	273.04	274.68	270.88	274.68	273.04	271.24	275.68
44.0	270.72	272.32	268.48	272.32	270.72	268.84	273.24
44.5	268.44	270.00	266.12	270.00	268.44	266.52	270.96
45.0	265.96	267.60	263.72	267.60	265.96	264.16	268.64
45.5	263.60	265.20	261.36	265.20	263.60	261.88	266.32
46.0	261.24	262.84	258.96	262.84	261.24	259.44	264.20
46.5	258.88	260.44	256.56	260.44	258.88	257.12	261.80
47.0	256.44	257.96	254.12	257.96	256.44	254.72	259.52
47.5	254.08	255.48	251.72	255.48	254.08	252.40	257.16
48.0	251.60	253.04	249.32	253.04	251.60	250.00	254.80
48.5	249.24	250.56	247.00	250.56	249.24	247.68	252.40
49.0	246.84	248.16	244.60	248.16	246.84	245.24	250.00
49.5	244.44	245.80	242.20	245.80	244.44	242.84	247.60
50.0	242.00	243.40	239.80	243.40	242.00	240.44	245.12
50.5	239.64	241.00	237.36	241.00	239.64	238.04	242.80
51.0	237.20	238.56	235.08	238.56	237.20	235.68	240.36
51.5	234.80	236.20	232.68	236.20	234.80	233.24	237.96
52.0	232.48	233.80	230.28	233.80	232.48	230.88	235.56
52.5	230.12	231.36	227.84	231.36	230.12	228.44	233.20
53.0	227.68	229.00	225.48	229.00	227.68	226.04	230.72
53.5	225.24	226.56	223.12	226.56	225.24	223.64	228.24
54.0	222.80	224.16	220.68	224.16	222.80	221.28	225.84
54.5	220.48	221.76	218.36	221.76	220.48	218.88	223.40
55.0	218.12	219.28	215.96	219.28	218.12	216.48	220.96
55.5	215.64	216.92	213.60	216.92	215.64	214.00	218.52
56.0	213.28	214.44	211.20	214.44	213.28	211.60	216.12
56.5	210.80	211.92	208.68	211.92	210.80	209.16	213.56
57.0	208.40	209.48	206.32	209.48	208.40	206.72	211.08
57.5	205.92	207.04	203.88	207.04	205.92	204.28	208.60
58.0	203.40	204.48	201.40	204.48	203.40	201.84	206.12
58.5	200.92	202.04	199.00	202.04	200.92	199.40	203.56
59.0	198.48	199.52	196.52	199.52	198.48	196.96	201.08
59.5	196.00	196.96	194.00	196.96	196.00	194.48	198.52
60.0	193.40	194.48	191.52	194.48	193.40	191.92	196.00
60.5	190.88	191.96	188.96	191.96	190.88	189.40	193.40
61.0	188.36	189.44	186.44	189.44	188.36	186.88	190.76
61.5	185.80	186.88	183.92	186.88	185.80	184.36	188.20
62.0	183.20	184.32	181.40	184.32	183.20	181.84	185.56
62.5	180.64	181.76	178.84	181.76	180.64	179.24	182.84
63.0	178.04	179.16	176.24	179.16	178.04	176.64	180.12
63.5	175.40	176.60	173.60	176.60	175.40	174.08	177.44
64.0	172.80	174.00	171.00	174.00	172.80	171.44	174.76
64.5	170.16	171.36	168.40	171.36	170.16	168.84	171.96
65.0	167.56	168.76	165.80	168.76	167.56	166.20	169.24
65.5	164.92	166.08	163.16	166.08	164.92	163.48	166.48
66.0	162.28	163.40	160.48	163.40	162.28	160.84	163.72
66.5	159.60	160.72	157.88	160.72	159.60	158.20	160.96
67.0	156.96	158.08	155.20	158.08	156.96	155.48	158.20
67.5	154.36	155.36	152.64	155.36	154.36	152.76	155.36
68.0	151.64	152.64	149.92	152.64	151.64	150.00	152.60

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CANDELA TABULATION - (Cont.)

68.5	148.92	149.92	147.24	149.92	148.92	147.24	149.84
69.0	146.24	147.16	144.56	147.16	146.24	144.48	147.04
69.5	143.52	144.44	141.92	144.44	143.52	141.76	144.20
70.0	140.80	141.68	139.24	141.68	140.80	139.00	141.48
70.5	138.12	138.96	136.52	138.96	138.12	136.28	138.68
71.0	135.36	136.16	133.80	136.16	135.36	133.52	135.80
71.5	132.60	133.40	131.08	133.40	132.60	130.72	133.04
72.0	129.80	130.52	128.32	130.52	129.80	127.96	130.24
72.5	127.00	127.76	125.60	127.76	127.00	125.16	127.44
73.0	124.20	124.96	122.88	124.96	124.20	122.36	124.60
73.5	121.32	122.12	120.16	122.12	121.32	119.56	121.68
74.0	118.44	119.28	117.48	119.28	118.44	116.76	118.80
74.5	115.60	116.44	114.64	116.44	115.60	113.96	115.92
75.0	112.68	113.48	111.64	113.48	112.68	111.12	113.04
75.5	109.76	110.68	108.68	110.68	109.76	108.28	110.12
76.0	106.88	107.80	105.76	107.80	106.88	105.44	107.20
76.5	104.00	104.96	102.88	104.96	104.00	102.64	104.36
77.0	101.20	102.12	100.04	102.12	101.20	99.80	101.52
77.5	98.44	99.44	97.20	99.44	98.44	97.00	98.72
78.0	95.72	96.68	94.36	96.68	95.72	94.24	96.00
78.5	93.08	94.04	91.60	94.04	93.08	91.56	93.32
79.0	90.44	91.44	88.92	91.44	90.44	88.92	90.64
79.5	87.88	88.88	86.28	88.88	87.88	86.28	88.04
80.0	85.36	86.40	83.68	86.40	85.36	83.72	85.44
80.5	82.88	83.96	81.20	83.96	82.88	81.24	82.96
81.0	80.48	81.52	78.72	81.52	80.48	78.80	80.52
81.5	78.12	79.20	76.36	79.20	78.12	76.40	78.20
82.0	75.88	76.88	74.04	76.88	75.88	74.04	75.88
82.5	73.64	74.68	71.76	74.68	73.64	71.76	73.68
83.0	71.48	72.48	69.56	72.48	71.48	69.56	71.48
83.5	69.32	70.36	67.40	70.36	69.32	67.44	69.36
84.0	67.24	68.28	65.24	68.28	67.24	65.32	67.32
84.5	65.24	66.20	63.20	66.20	65.24	63.28	65.32
85.0	63.28	64.16	61.24	64.16	63.28	61.24	63.36
85.5	61.36	62.24	59.32	62.24	61.36	59.36	61.52
86.0	59.52	60.40	57.44	60.40	59.52	57.52	59.68
86.5	57.72	58.56	55.68	58.56	57.72	55.76	57.88
87.0	55.96	56.80	53.92	56.80	55.96	54.04	56.16
87.5	54.32	55.12	52.28	55.12	54.32	52.36	54.52
88.0	52.72	53.56	50.68	53.56	52.72	50.80	52.96
88.5	51.28	52.08	49.20	52.08	51.28	49.36	51.44
89.0	49.88	50.68	47.80	50.68	49.88	48.00	50.04
89.5	48.60	49.40	46.52	49.40	48.60	46.72	48.72
90.0	47.56	48.32	45.44	48.32	47.56	45.76	47.68
90.5	46.76	47.52	44.64	47.52	46.76	45.00	46.92
91.0	46.12	46.84	44.00	46.84	46.12	44.36	46.24
91.5	45.52	46.24	43.36	46.24	45.52	43.80	45.64
92.0	44.96	45.68	42.80	45.68	44.96	43.24	45.08
92.5	44.40	45.12	42.20	45.12	44.40	42.72	44.52
93.0	43.88	44.56	41.68	44.56	43.88	42.20	44.00
93.5	43.36	44.00	41.12	44.00	43.36	41.68	43.44
94.0	42.84	43.48	40.60	43.48	42.84	41.16	42.92
94.5	42.36	42.96	40.08	42.96	42.36	40.68	42.44
95.0	41.84	42.48	39.56	42.48	41.84	40.20	41.96
95.5	41.36	42.00	39.08	42.00	41.36	39.72	41.44
96.0	40.84	41.48	38.60	41.48	40.84	39.24	41.00

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CANDELA TABULATION - (Cont.)

96.5	40.32	40.96	38.12	40.96	40.32	38.80	40.52
97.0	39.80	40.48	37.68	40.48	39.80	38.28	40.04
97.5	39.32	39.96	37.20	39.96	39.32	37.80	39.56
98.0	38.80	39.44	36.76	39.44	38.80	37.32	39.08
98.5	38.32	38.92	36.32	38.92	38.32	36.80	38.60
99.0	37.80	38.44	35.84	38.44	37.80	36.32	38.12
99.5	37.28	37.96	35.40	37.96	37.28	35.80	37.64
100.0	36.80	37.44	34.96	37.44	36.80	35.32	37.20
100.5	36.32	36.96	34.52	36.96	36.32	34.80	36.76
101.0	35.84	36.52	34.08	36.52	35.84	34.36	36.32
101.5	35.40	36.04	33.64	36.04	35.40	33.92	35.88
102.0	34.96	35.56	33.20	35.56	34.96	33.44	35.48
102.5	34.48	35.12	32.80	35.12	34.48	33.04	35.04
103.0	34.08	34.68	32.36	34.68	34.08	32.60	34.64
103.5	33.64	34.24	31.92	34.24	33.64	32.20	34.24
104.0	33.24	33.84	31.52	33.84	33.24	31.80	33.84
104.5	32.84	33.40	31.08	33.40	32.84	31.40	33.44
105.0	32.40	33.00	30.68	33.00	32.40	31.00	33.04
105.5	32.04	32.60	30.28	32.60	32.04	30.64	32.64
106.0	31.64	32.24	29.88	32.24	31.64	30.28	32.24
106.5	31.28	31.84	29.52	31.84	31.28	29.96	31.84
107.0	30.96	31.44	29.16	31.44	30.96	29.60	31.48
107.5	30.60	31.08	28.76	31.08	30.60	29.28	31.08
108.0	30.28	30.72	28.40	30.72	30.28	28.92	30.72
108.5	29.92	30.36	28.00	30.36	29.92	28.56	30.36
109.0	29.60	30.04	27.64	30.04	29.60	28.20	30.04
109.5	29.24	29.68	27.28	29.68	29.24	27.88	29.68
110.0	28.88	29.36	26.96	29.36	28.88	27.52	29.32
110.5	28.52	29.00	26.60	29.00	28.52	27.16	28.96
111.0	28.20	28.68	26.24	28.68	28.20	26.80	28.60
111.5	27.84	28.32	25.88	28.32	27.84	26.44	28.24
112.0	27.48	28.00	25.56	28.00	27.48	26.08	27.92
112.5	27.12	27.64	25.24	27.64	27.12	25.72	27.60
113.0	26.80	27.32	24.96	27.32	26.80	25.40	27.28
113.5	26.44	27.00	24.64	27.00	26.44	25.08	26.96
114.0	26.08	26.64	24.32	26.64	26.08	24.76	26.64
114.5	25.72	26.32	24.04	26.32	25.72	24.44	26.36
115.0	25.36	25.96	23.76	25.96	25.36	24.16	26.04
115.5	25.04	25.64	23.44	25.64	25.04	23.88	25.76
116.0	24.72	25.32	23.16	25.32	24.72	23.64	25.44
116.5	24.36	24.96	22.88	24.96	24.36	23.40	25.16
117.0	24.04	24.64	22.64	24.64	24.04	23.16	24.88
117.5	23.68	24.32	22.36	24.32	23.68	22.88	24.60
118.0	23.36	24.00	22.08	24.00	23.36	22.64	24.32
118.5	23.08	23.64	21.80	23.64	23.08	22.36	24.04
119.0	22.80	23.32	21.52	23.32	22.80	22.12	23.80
119.5	22.52	23.00	21.28	23.00	22.52	21.84	23.52
120.0	22.24	22.68	21.00	22.68	22.24	21.60	23.24
120.5	21.96	22.36	20.76	22.36	21.96	21.36	23.00
121.0	21.68	22.04	20.48	22.04	21.68	21.08	22.72
121.5	21.44	21.68	20.24	21.68	21.44	20.84	22.44
122.0	21.12	21.32	20.00	21.32	21.12	20.60	22.20
122.5	20.84	21.00	19.76	21.00	20.84	20.40	21.92
123.0	20.56	20.72	19.48	20.72	20.56	20.12	21.68
123.5	20.28	20.40	19.24	20.40	20.28	19.92	21.40
124.0	20.00	20.12	19.00	20.12	20.00	19.68	21.16

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CANDELA TABULATION - (Cont.)

124.5	19.72	19.84	18.76	19.84	19.72	19.44	20.88
125.0	19.44	19.56	18.52	19.56	19.44	19.20	20.64
125.5	19.20	19.32	18.28	19.32	19.20	19.00	20.36
126.0	18.92	19.04	18.04	19.04	18.92	18.76	20.12
126.5	18.64	18.80	17.80	18.80	18.64	18.52	19.84
127.0	18.36	18.52	17.56	18.52	18.36	18.32	19.60
127.5	18.08	18.24	17.36	18.24	18.08	18.08	19.32
128.0	17.80	17.96	17.16	17.96	17.80	17.88	19.04
128.5	17.52	17.68	16.96	17.68	17.52	17.64	18.80
129.0	17.28	17.44	16.76	17.44	17.28	17.44	18.52
129.5	16.96	17.16	16.60	17.16	16.96	17.20	18.24
130.0	16.68	16.84	16.40	16.84	16.68	16.96	18.00
130.5	16.40	16.56	16.20	16.56	16.40	16.72	17.72
131.0	16.16	16.28	16.04	16.28	16.16	16.52	17.44
131.5	15.88	16.00	15.88	16.00	15.88	16.28	17.16
132.0	15.60	15.72	15.68	15.72	15.60	16.04	16.88
132.5	15.36	15.44	15.48	15.44	15.36	15.80	16.56
133.0	15.08	15.16	15.28	15.16	15.08	15.56	16.28
133.5	14.84	14.92	15.08	14.92	14.84	15.32	15.96
134.0	14.60	14.64	14.84	14.64	14.60	15.08	15.68
134.5	14.36	14.40	14.64	14.40	14.36	14.84	15.36
135.0	14.12	14.16	14.44	14.16	14.12	14.60	15.04
135.5	13.88	13.92	14.20	13.92	13.88	14.36	14.72
136.0	13.60	13.68	13.96	13.68	13.60	14.12	14.40
136.5	13.36	13.44	13.76	13.44	13.36	13.88	14.08
137.0	13.12	13.16	13.52	13.16	13.12	13.64	13.76
137.5	12.92	12.96	13.32	12.96	12.92	13.40	13.44
138.0	12.68	12.72	13.08	12.72	12.68	13.16	13.08
138.5	12.44	12.48	12.84	12.48	12.44	12.88	12.76
139.0	12.24	12.24	12.60	12.24	12.24	12.64	12.44
139.5	12.00	12.00	12.36	12.00	12.00	12.40	12.08
140.0	11.80	11.76	12.12	11.76	11.80	12.12	11.76
140.5	11.56	11.56	11.88	11.56	11.56	11.88	11.40
141.0	11.36	11.32	11.64	11.32	11.36	11.60	11.08
141.5	11.12	11.08	11.36	11.08	11.12	11.36	10.76
142.0	10.92	10.84	11.08	10.84	10.92	11.08	10.40
142.5	10.72	10.64	10.80	10.64	10.72	10.84	10.12
143.0	10.48	10.40	10.52	10.40	10.48	10.56	9.80
143.5	10.28	10.16	10.28	10.16	10.28	10.28	9.52
144.0	10.08	9.96	10.00	9.96	10.08	10.00	9.24
144.5	9.84	9.72	9.72	9.72	9.84	9.76	8.96
145.0	9.60	9.48	9.44	9.48	9.60	9.48	8.72
145.5	9.40	9.24	9.16	9.24	9.40	9.20	8.44
146.0	9.16	9.00	8.88	9.00	9.16	8.92	8.20
146.5	8.92	8.76	8.60	8.76	8.92	8.64	7.92
147.0	8.68	8.52	8.32	8.52	8.68	8.36	7.64
147.5	8.48	8.24	8.04	8.24	8.48	8.12	7.40
148.0	8.24	8.00	7.76	8.00	8.24	7.84	7.12
148.5	8.00	7.76	7.48	7.76	8.00	7.60	6.88
149.0	7.76	7.48	7.20	7.48	7.76	7.32	6.68
149.5	7.52	7.24	6.96	7.24	7.52	7.08	6.44
150.0	7.28	6.96	6.68	6.96	7.28	6.80	6.24
150.5	7.04	6.72	6.40	6.72	7.04	6.56	6.00
151.0	6.80	6.48	6.16	6.48	6.80	6.32	5.80
151.5	6.52	6.20	5.88	6.20	6.52	6.04	5.60
152.0	6.28	5.96	5.64	5.96	6.28	5.80	5.40

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CANDELA TABULATION - (Cont.)

152.5	6.04	5.68	5.40	5.68	6.04	5.60	5.20
153.0	5.80	5.44	5.16	5.44	5.80	5.36	5.00
153.5	5.56	5.16	4.96	5.16	5.56	5.16	4.80
154.0	5.28	4.92	4.72	4.92	5.28	4.96	4.60
154.5	5.04	4.68	4.52	4.68	5.04	4.80	4.44
155.0	4.84	4.44	4.28	4.44	4.84	4.60	4.24
155.5	4.60	4.20	4.08	4.20	4.60	4.40	4.08
156.0	4.40	4.00	3.84	4.00	4.40	4.24	3.92
156.5	4.20	3.80	3.64	3.80	4.20	4.04	3.76
157.0	4.00	3.60	3.40	3.60	4.00	3.88	3.60
157.5	3.84	3.44	3.16	3.44	3.84	3.68	3.44
158.0	3.64	3.24	2.96	3.24	3.64	3.52	3.32
158.5	3.48	3.08	2.76	3.08	3.48	3.36	3.16
159.0	3.28	2.88	2.52	2.88	3.28	3.20	3.00
159.5	3.12	2.72	2.32	2.72	3.12	3.00	2.88
160.0	2.92	2.56	2.16	2.56	2.92	2.84	2.76
160.5	2.76	2.44	1.96	2.44	2.76	2.68	2.64
161.0	2.60	2.28	1.80	2.28	2.60	2.56	2.48
161.5	2.44	2.12	1.64	2.12	2.44	2.40	2.40
162.0	2.32	2.00	1.48	2.00	2.32	2.24	2.28
162.5	2.16	1.88	1.36	1.88	2.16	2.12	2.16
163.0	2.00	1.72	1.24	1.72	2.00	2.00	2.08
163.5	1.88	1.60	1.16	1.60	1.88	1.88	1.96
164.0	1.72	1.48	1.04	1.48	1.72	1.76	1.88
164.5	1.60	1.36	0.96	1.36	1.60	1.68	1.80
165.0	1.48	1.24	0.92	1.24	1.48	1.56	1.68
165.5	1.36	1.12	0.84	1.12	1.36	1.48	1.60
166.0	1.24	1.04	0.80	1.04	1.24	1.40	1.52
166.5	1.12	0.96	0.76	0.96	1.12	1.32	1.44
167.0	1.04	0.88	0.68	0.88	1.04	1.24	1.32
167.5	0.96	0.80	0.64	0.80	0.96	1.20	1.24
168.0	0.88	0.76	0.60	0.76	0.88	1.12	1.16
168.5	0.84	0.72	0.52	0.72	0.84	1.04	1.08
169.0	0.76	0.64	0.52	0.64	0.76	0.96	1.04
169.5	0.72	0.64	0.48	0.64	0.72	0.88	0.96
170.0	0.68	0.60	0.44	0.60	0.68	0.80	0.88
170.5	0.64	0.56	0.40	0.56	0.64	0.76	0.80
171.0	0.60	0.52	0.36	0.52	0.60	0.68	0.72
171.5	0.56	0.48	0.32	0.48	0.56	0.64	0.68
172.0	0.52	0.48	0.32	0.48	0.52	0.56	0.60
172.5	0.44	0.44	0.28	0.44	0.44	0.52	0.52
173.0	0.36	0.40	0.24	0.40	0.36	0.48	0.44
173.5	0.32	0.36	0.24	0.36	0.32	0.44	0.40
174.0	0.28	0.28	0.20	0.28	0.28	0.40	0.36
174.5	0.24	0.24	0.16	0.24	0.24	0.32	0.32
175.0	0.24	0.20	0.12	0.20	0.24	0.28	0.28
175.5	0.20	0.16	0.12	0.16	0.20	0.20	0.24
176.0	0.16	0.12	0.08	0.12	0.16	0.16	0.20
176.5	0.12	0.12	0.04	0.12	0.12	0.16	0.16
177.0	0.08	0.08	0.04	0.08	0.08	0.12	0.16
177.5	0.08	0.04	0.04	0.04	0.08	0.12	0.12
178.0	0.08	0.04	0.00	0.04	0.08	0.08	0.08
178.5	0.04	0.04	0.00	0.04	0.04	0.08	0.08
179.0	0.04	0.04	0.00	0.04	0.04	0.04	0.04
179.5	0.00	0.00	0.00	0.00	0.00	0.04	0.04
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	148.91	N.A.	10.60
0-30	313.23	N.A.	22.30
0-40	508.33	N.A.	36.20
0-60	908.75	N.A.	64.70
0-80	1193.22	N.A.	85.00
0-90	1262.77	N.A.	89.90
10-90	1224.1	N.A.	87.20
20-40	359.41	N.A.	25.60
20-50	564.74	N.A.	40.20
40-70	566.14	N.A.	40.30
60-80	284.47	N.A.	20.30
70-80	118.75	N.A.	8.50
80-90	69.55	N.A.	5.00
90-110	79.31	N.A.	5.60
90-120	104.34	N.A.	7.40
90-130	121.88	N.A.	8.70
90-150	139.06	N.A.	9.90
90-180	141.75	N.A.	10.10
110-180	62.44	N.A.	4.40
0-180	1404.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.67
10-20	110.24
20-30	164.32
30-40	195.09
40-50	205.33
50-60	195.10
60-70	165.71
70-80	118.75
80-90	69.55
90-100	45.21
100-110	34.10
110-120	25.04
120-130	17.53
130-140	11.21
140-150	5.97
150-160	2.20
160-170	0.46
170-180	0.04

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	105	99	94	90	101	96	92	88	90	86	83	84	81	79	79	77	75	72
2	95	86	78	72	91	83	76	70	78	72	67	73	68	64	68	65	61	58
3	86	75	66	59	82	72	64	58	68	61	56	64	58	53	60	55	51	49
4	78	66	57	50	75	64	55	49	60	53	47	57	50	45	53	48	44	41
5	72	59	49	43	69	57	48	42	54	46	41	51	44	39	48	42	38	35
6	66	53	44	37	64	51	43	36	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	46	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	22	20

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UGR TABLE - CORRECTED

Reflectances

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

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.5	16.9	16.0	17.4	18.0	15.5	17.0	16.0	17.5	18.0
	3H	17.7	19.1	18.3	19.6	20.2	17.8	19.1	18.3	19.6	20.2
	4H	18.7	20.0	19.3	20.6	21.2	18.8	20.0	19.3	20.6	21.2
	6H	19.7	20.9	20.2	21.4	22.1	19.7	20.9	20.3	21.4	22.1
	8H	20.2	21.3	20.7	21.9	22.5	20.1	21.3	20.7	21.9	22.5
	12H	20.6	21.7	21.2	22.3	23.0	20.6	21.7	21.2	22.3	22.9
4H	2H	16.2	17.5	16.7	18.0	18.6	16.2	17.5	16.8	18.0	18.6
	3H	18.7	19.8	19.3	20.4	21.0	18.8	19.8	19.3	20.4	21.0
	4H	19.9	20.9	20.5	21.5	22.1	19.9	20.9	20.5	21.5	22.2
	6H	21.0	21.9	21.6	22.5	23.2	21.0	21.9	21.6	22.5	23.2
	8H	21.5	22.4	22.1	23.0	23.7	21.6	22.4	22.2	23.0	23.7
	12H	22.1	22.9	22.8	23.5	24.2	22.2	22.9	22.8	23.5	24.2
8H	4H	20.4	21.2	21.0	21.8	22.5	20.4	21.2	21.0	21.8	22.5
	6H	21.7	22.4	22.3	23.0	23.7	21.7	22.4	22.4	23.1	23.8
	8H	22.4	23.0	23.0	23.7	24.4	22.4	23.1	23.1	23.7	24.4
	12H	23.2	23.7	23.8	24.4	25.1	23.2	23.8	23.8	24.4	25.2
12H	4H	20.4	21.2	21.1	21.8	22.5	20.5	21.2	21.1	21.9	22.6
	6H	21.8	22.5	22.5	23.1	23.9	21.9	22.5	22.5	23.2	23.9
	8H	22.6	23.2	23.3	23.8	24.6	22.7	23.2	23.3	23.9	24.7

Maximum UGR = 25.2

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POLAR GRAPH