



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 769-48WLED114DMV30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLI-15121-1
 [TESTLAB] LightLab International (www.LightLabInt.com)
 [MANUFAC] Mobern Lighting Company, Jessup, MD 20794
 [LUMCAT] 769-48WLED114DMV30 (Calc)
 [LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 769-48WLED114DMV30
 [MORE] White painted fabricated steel housing with white interior and clear prismatic plastic wrap lens.
 [MORE] 256 LEDs with single row of 32 on each of eight white PCBs. Marked "M10CC830D32N2S"
 [MORE] Two Universal Everline drivers. Model: D10CC55UNVTZ-C with dimming disconnected. Marked "998"
 [MORE] Operating at 120Vac and 60Hz.
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 8m.
 [MORE] This IES file created by LightLab/LSA Report program version 3.807a.
 [DATE] This file created: Friday, May 15, 2015 7:11:02 AM
 [ISSUE DATE] Friday, May 15, 2015 7:11:02 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10583
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	114
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.33 m
Luminous Height	0.04 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8901	8054	7855
55	7039	5734	5030
65	4401	3893	3226
75	3040	2887	2822
85	2163	2830	3750

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CANDELA TABULATION

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
0.0	3953.28	3953.28	3953.28	3953.28	3953.28	3953.28	3953.28	3953.28	3953.28	3953.28
0.5	3933.08	3950.52	3955.84	3960.24	3960.32	3955.64	3955.16	3956.28	3954.60	3955.64
1.0	3932.40	3951.04	3957.92	3960.28	3961.64	3955.96	3957.92	3959.52	3956.36	3958.96
1.5	3935.92	3954.00	3960.32	3963.60	3965.76	3959.04	3961.56	3962.64	3961.72	3963.76
2.0	3939.24	3958.56	3964.64	3966.76	3970.00	3965.40	3968.72	3968.56	3969.28	3974.08
2.5	3944.64	3963.52	3968.44	3971.84	3974.84	3971.60	3977.64	3977.84	3982.32	3984.12
3.0	3948.84	3966.96	3975.28	3978.24	3982.04	3980.40	3986.40	3989.36	3991.84	3996.56
3.5	3952.88	3971.28	3978.16	3981.52	3988.72	3990.32	3995.52	3999.16	4003.44	4007.36
4.0	3952.08	3971.80	3979.72	3986.52	3994.04	3998.80	4004.84	4008.24	4013.60	4016.96
4.5	3949.76	3969.32	3983.96	3987.16	4000.28	4006.72	4015.12	4017.96	4021.88	4028.64
5.0	3947.68	3967.44	3983.40	3988.24	4004.36	4012.68	4021.80	4027.60	4032.80	4037.84
5.5	3943.56	3964.12	3982.88	3990.84	4007.08	4017.60	4026.24	4035.20	4042.08	4049.52
6.0	3939.60	3960.88	3983.04	3990.60	4010.60	4022.20	4034.60	4041.40	4052.52	4059.72
6.5	3930.64	3954.60	3983.56	3992.24	4015.16	4026.52	4038.76	4049.32	4061.92	4067.08
7.0	3923.60	3947.52	3982.24	3989.08	4016.80	4033.00	4045.88	4055.28	4067.04	4070.20
7.5	3917.32	3942.08	3978.80	3987.56	4017.28	4035.12	4049.08	4061.08	4067.92	4070.08
8.0	3909.28	3936.28	3977.00	3987.48	4016.44	4039.60	4053.60	4060.16	4064.40	4063.36
8.5	3903.08	3930.68	3974.68	3985.80	4016.40	4042.12	4054.48	4060.08	4056.32	4054.20
9.0	3894.24	3925.40	3972.68	3984.40	4017.48	4040.04	4051.08	4053.48	4046.76	4038.20
9.5	3888.64	3919.80	3970.96	3981.72	4017.40	4038.48	4045.64	4046.60	4032.12	4022.12
10.0	3882.80	3915.80	3966.36	3981.56	4017.88	4036.04	4037.04	4035.76	4013.88	4000.28
10.5	3874.20	3908.80	3962.48	3974.84	4012.72	4030.12	4025.36	4020.64	3994.92	3974.68
11.0	3865.80	3902.28	3958.20	3971.52	4008.16	4020.16	4013.64	4003.60	3969.80	3945.40
11.5	3856.04	3896.28	3952.44	3965.40	4003.04	4008.80	3997.68	3983.84	3944.88	3915.36
12.0	3846.04	3889.72	3945.96	3961.80	3998.32	3993.32	3981.00	3962.52	3916.40	3887.92
12.5	3837.88	3882.56	3941.48	3956.56	3990.84	3977.72	3960.36	3942.16	3889.00	3861.36
13.0	3832.32	3879.12	3938.24	3951.72	3983.80	3960.64	3940.24	3917.00	3863.20	3839.40
13.5	3826.00	3873.36	3935.32	3950.04	3977.20	3941.92	3916.00	3889.96	3841.80	3820.32
14.0	3820.52	3870.52	3933.00	3948.60	3967.76	3921.32	3891.36	3865.20	3821.92	3807.04
14.5	3812.04	3866.20	3934.12	3947.60	3958.20	3900.20	3866.00	3841.56	3807.12	3796.32
15.0	3800.68	3859.04	3932.24	3944.12	3948.00	3879.08	3845.04	3818.88	3795.44	3793.24
15.5	3784.04	3852.40	3929.60	3939.40	3933.84	3856.20	3823.40	3801.76	3786.96	3794.80
16.0	3770.08	3841.24	3924.52	3932.12	3915.52	3835.64	3803.36	3784.96	3783.52	3801.08
16.5	3753.76	3833.20	3917.08	3923.48	3896.92	3812.60	3781.84	3769.12	3785.68	3810.72
17.0	3739.40	3823.76	3907.92	3910.56	3876.84	3789.32	3762.32	3756.08	3787.56	3821.44
17.5	3723.60	3813.68	3898.64	3899.24	3858.40	3767.52	3742.80	3744.56	3793.04	3835.48
18.0	3713.64	3804.24	3888.36	3886.20	3837.16	3746.76	3729.04	3736.88	3799.60	3845.32
18.5	3702.76	3795.16	3875.88	3870.44	3814.88	3727.52	3717.24	3732.44	3803.60	3850.76
19.0	3692.80	3787.88	3862.12	3853.00	3793.48	3711.80	3706.28	3728.56	3809.44	3851.12
19.5	3683.64	3779.16	3846.32	3836.32	3773.00	3697.04	3700.48	3728.92	3813.04	3844.88
20.0	3676.60	3768.68	3830.84	3815.84	3750.56	3685.12	3696.60	3732.64	3810.76	3833.60
20.5	3667.80	3759.48	3814.40	3798.32	3726.68	3676.24	3693.88	3737.52	3805.88	3815.12
21.0	3657.60	3747.36	3796.96	3777.24	3704.76	3668.20	3694.48	3739.96	3795.84	3791.80
21.5	3648.72	3737.96	3777.72	3756.88	3683.44	3660.36	3696.04	3739.88	3781.80	3765.52
22.0	3637.92	3726.76	3758.40	3736.60	3661.28	3654.40	3694.44	3736.64	3758.64	3735.88
22.5	3625.60	3718.32	3738.88	3712.40	3639.92	3647.52	3692.20	3726.32	3736.92	3703.56
23.0	3610.76	3706.40	3719.48	3693.32	3620.60	3639.20	3686.48	3714.44	3705.72	3668.40
23.5	3592.24	3695.64	3699.88	3670.28	3599.68	3632.76	3680.04	3699.32	3672.84	3635.04
24.0	3575.04	3686.40	3679.24	3649.36	3583.52	3628.20	3672.12	3682.56	3642.84	3607.16
24.5	3558.80	3672.04	3655.68	3626.20	3566.88	3619.96	3660.52	3660.56	3613.68	3583.48
25.0	3539.40	3658.00	3631.16	3602.40	3552.16	3613.36	3648.36	3637.44	3587.20	3562.68
25.5	3520.16	3640.64	3607.16	3579.76	3540.44	3605.76	3632.72	3612.52	3563.88	3547.88
26.0	3503.00	3620.92	3581.52	3556.40	3530.84	3599.52	3614.08	3586.48	3543.28	3537.64
26.5	3490.36	3601.24	3556.48	3533.04	3517.92	3589.80	3592.32	3558.96	3526.52	3526.96

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CANDELA TABULATION - (Cont.)

27.0	3477.12	3578.56	3532.92	3509.32	3507.76	3576.72	3568.60	3530.92	3509.60	3520.56
27.5	3461.20	3556.72	3508.12	3486.76	3495.52	3560.28	3542.60	3507.52	3496.32	3509.20
28.0	3447.36	3535.16	3482.04	3462.96	3481.32	3540.76	3516.92	3484.44	3480.96	3500.48
28.5	3429.20	3512.96	3456.40	3439.08	3467.32	3519.00	3491.80	3463.68	3462.64	3484.96
29.0	3414.96	3489.64	3432.08	3415.28	3450.84	3493.20	3469.72	3443.72	3445.12	3466.12
29.5	3393.36	3469.40	3406.76	3393.88	3431.44	3468.88	3445.60	3425.44	3425.32	3442.92
30.0	3376.24	3448.64	3385.52	3371.88	3413.80	3439.64	3421.64	3407.68	3403.20	3419.24
30.5	3356.08	3428.56	3365.80	3353.28	3396.48	3413.60	3397.92	3388.04	3378.28	3395.60
31.0	3338.12	3410.00	3346.00	3337.36	3379.16	3387.84	3373.80	3364.76	3355.16	3372.92
31.5	3322.08	3388.24	3325.20	3319.44	3358.12	3360.32	3347.88	3341.20	3332.40	3351.92
32.0	3303.52	3368.16	3306.48	3299.96	3338.36	3335.12	3322.12	3315.60	3312.36	3335.56
32.5	3286.44	3343.72	3283.72	3282.12	3315.72	3306.36	3296.04	3291.96	3293.52	3314.96
33.0	3266.20	3322.96	3264.00	3261.04	3295.68	3278.68	3268.48	3267.96	3277.36	3296.76
33.5	3248.00	3297.56	3241.56	3240.36	3275.28	3250.28	3240.16	3246.68	3258.12	3278.00
34.0	3224.24	3270.76	3218.28	3219.00	3254.04	3221.52	3213.16	3225.44	3240.08	3261.12
34.5	3199.20	3244.36	3193.16	3195.48	3233.56	3195.12	3188.68	3202.88	3221.04	3242.72
35.0	3173.04	3218.04	3166.68	3170.36	3212.56	3167.12	3165.68	3180.52	3202.52	3221.44
35.5	3151.00	3189.20	3138.32	3142.52	3190.60	3139.76	3144.80	3155.16	3181.00	3196.84
36.0	3130.08	3160.04	3111.52	3118.16	3165.36	3109.68	3120.96	3133.28	3158.20	3170.60
36.5	3106.00	3131.68	3084.32	3094.04	3139.68	3083.04	3098.20	3109.64	3136.28	3139.20
37.0	3085.64	3106.80	3059.72	3068.12	3112.16	3055.76	3073.44	3084.04	3109.36	3101.60
37.5	3061.76	3081.60	3036.40	3044.44	3083.88	3029.64	3045.68	3059.68	3079.60	3062.08
38.0	3037.84	3054.44	3010.92	3020.28	3054.12	3003.52	3019.88	3032.40	3047.28	3024.32
38.5	3009.00	3023.48	2984.16	2995.32	3023.32	2977.04	2991.32	3007.32	3012.04	2982.36
39.0	2982.84	2992.32	2955.20	2970.16	2990.64	2951.32	2965.28	2978.84	2974.16	2945.04
39.5	2953.24	2962.68	2927.68	2941.44	2958.08	2924.08	2934.88	2951.12	2936.92	2911.56
40.0	2925.56	2930.20	2896.36	2913.32	2926.28	2894.28	2905.12	2921.92	2898.32	2875.36
40.5	2895.68	2898.76	2865.28	2883.64	2893.36	2864.84	2877.24	2892.16	2859.64	2840.36
41.0	2871.84	2868.96	2837.84	2855.64	2860.64	2834.04	2848.44	2860.64	2822.88	2804.72
41.5	2847.04	2837.88	2809.56	2823.88	2824.08	2802.88	2818.76	2824.96	2785.20	2769.24
42.0	2817.56	2809.64	2781.24	2793.68	2789.64	2771.60	2788.44	2786.40	2746.04	2731.64
42.5	2789.92	2776.60	2750.80	2760.96	2756.96	2741.00	2754.56	2747.72	2706.92	2694.44
43.0	2755.00	2742.00	2717.64	2727.28	2721.76	2705.96	2717.40	2704.28	2665.52	2655.92
43.5	2722.08	2707.32	2684.16	2690.84	2683.16	2671.36	2674.80	2659.12	2621.52	2616.40
44.0	2687.64	2668.08	2650.84	2657.80	2645.76	2634.56	2634.00	2613.48	2577.28	2577.24
44.5	2651.24	2632.12	2615.60	2622.52	2605.88	2590.72	2588.92	2565.92	2531.68	2536.76
45.0	2618.08	2596.64	2579.88	2589.00	2566.72	2548.20	2543.48	2514.28	2482.52	2491.92
45.5	2581.32	2558.44	2543.52	2552.88	2525.64	2505.28	2494.20	2463.12	2437.60	2447.60
46.0	2539.72	2519.36	2505.92	2516.72	2480.00	2458.56	2442.32	2409.28	2389.72	2399.32
46.5	2499.32	2477.52	2470.80	2478.52	2436.96	2412.76	2387.40	2355.40	2342.72	2348.56
47.0	2456.68	2435.08	2432.16	2437.72	2391.28	2363.36	2333.76	2304.84	2295.44	2297.88
47.5	2412.52	2393.04	2390.20	2398.44	2343.40	2311.76	2279.40	2252.72	2247.00	2245.20
48.0	2370.80	2355.60	2346.84	2354.20	2296.08	2257.04	2226.76	2201.48	2198.72	2192.80
48.5	2329.88	2313.68	2303.16	2308.96	2246.12	2202.52	2172.04	2151.72	2149.56	2140.56
49.0	2286.32	2272.80	2257.36	2262.04	2195.36	2151.08	2119.44	2103.20	2100.16	2086.64
49.5	2239.56	2233.48	2212.56	2212.00	2144.20	2098.12	2068.04	2056.44	2049.32	2031.04
50.0	2195.56	2191.80	2167.52	2160.68	2091.00	2047.20	2018.48	2006.80	1999.48	1976.56
50.5	2146.64	2149.36	2118.84	2108.44	2040.12	1995.08	1968.92	1958.56	1945.80	1917.48
51.0	2100.04	2106.04	2071.36	2055.92	1986.20	1945.48	1919.72	1910.76	1894.16	1861.52
51.5	2051.44	2059.96	2019.72	2003.72	1935.76	1894.52	1871.56	1860.08	1840.16	1805.40
52.0	2003.40	2012.00	1967.12	1952.00	1887.40	1843.32	1823.76	1811.84	1786.24	1748.80
52.5	1955.40	1964.12	1913.32	1900.04	1837.68	1794.20	1774.60	1760.08	1731.52	1691.44
53.0	1906.32	1914.16	1863.08	1847.20	1788.60	1743.92	1724.68	1708.68	1677.64	1634.88
53.5	1857.20	1863.88	1809.12	1796.48	1738.96	1694.84	1675.88	1658.64	1622.00	1580.52
54.0	1807.36	1812.64	1757.12	1744.96	1691.24	1644.88	1628.72	1608.80	1569.12	1527.40
54.5	1755.84	1761.24	1709.00	1692.76	1643.12	1598.32	1580.68	1557.96	1513.88	1474.28

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CANDELA TABULATION - (Cont.)

55.0	1702.36	1705.44	1657.44	1641.12	1596.84	1550.72	1530.56	1507.44	1463.48	1424.48
55.5	1649.72	1651.20	1609.24	1592.36	1549.28	1505.00	1483.00	1460.44	1411.32	1375.80
56.0	1596.24	1598.36	1558.32	1540.16	1501.64	1457.48	1435.68	1412.84	1362.36	1331.56
56.5	1540.80	1544.76	1509.44	1493.16	1458.68	1414.64	1389.92	1368.40	1316.52	1285.64
57.0	1487.24	1491.52	1461.28	1445.08	1414.40	1370.04	1344.52	1323.76	1272.24	1244.68
57.5	1435.60	1439.04	1413.76	1400.08	1370.52	1329.04	1302.32	1280.68	1230.24	1205.04
58.0	1378.88	1387.00	1368.40	1355.60	1329.92	1287.72	1260.08	1241.04	1190.76	1166.64
58.5	1329.12	1336.40	1322.40	1311.12	1289.84	1247.28	1219.96	1200.12	1152.44	1129.00
59.0	1276.24	1287.24	1279.56	1269.64	1249.04	1208.84	1182.24	1162.28	1117.96	1094.56
59.5	1226.24	1238.04	1236.56	1228.40	1210.96	1169.60	1145.68	1123.88	1083.52	1058.84
60.0	1179.16	1192.76	1195.76	1189.88	1173.76	1133.64	1109.00	1091.32	1051.24	1025.76
60.5	1132.52	1146.52	1154.12	1151.12	1137.44	1098.88	1075.84	1057.16	1017.16	993.36
61.0	1087.72	1103.72	1116.20	1113.32	1100.04	1065.88	1044.20	1024.44	987.28	961.40
61.5	1047.08	1061.08	1077.52	1076.12	1066.00	1033.64	1011.72	995.44	957.16	928.72
62.0	1008.20	1020.80	1039.80	1039.16	1031.80	1002.40	981.28	964.68	927.96	898.76
62.5	968.24	982.84	1002.72	1005.56	998.88	970.20	952.84	936.68	898.32	871.84
63.0	932.72	945.96	967.56	970.56	967.68	940.60	923.96	908.12	870.32	844.00
63.5	896.72	910.00	932.88	937.20	936.64	913.84	896.20	880.20	843.84	816.68
64.0	863.12	877.00	899.72	905.08	906.64	885.72	869.92	853.44	817.00	788.76
64.5	832.64	844.04	867.00	873.48	877.20	859.36	842.20	825.64	791.20	762.12
65.0	801.84	813.12	834.76	842.12	848.96	834.24	817.36	801.12	765.68	736.32
65.5	775.16	781.56	804.12	813.76	821.76	807.24	792.64	774.92	740.56	714.52
66.0	744.08	752.20	776.40	784.12	794.60	783.56	767.80	749.92	717.44	691.32
66.5	716.16	723.96	748.08	756.40	768.24	759.16	744.32	729.32	693.20	670.44
67.0	691.44	695.88	720.84	729.00	743.36	735.72	721.40	704.32	670.32	650.84
67.5	664.40	670.68	693.68	703.36	718.40	711.84	699.28	681.88	650.32	630.68
68.0	639.40	643.44	669.48	678.16	694.48	690.16	677.16	659.32	628.76	611.56
68.5	615.00	618.68	642.20	653.64	672.08	667.84	655.96	637.84	611.04	591.60
69.0	589.68	595.28	618.68	630.60	647.20	646.80	634.28	615.72	592.16	574.04
69.5	569.04	571.36	596.24	606.72	625.92	626.12	614.64	599.08	572.52	555.60
70.0	546.68	547.60	572.88	583.36	602.32	605.28	593.56	579.08	555.36	538.72
70.5	522.80	526.00	552.84	560.64	583.48	583.36	573.20	559.68	538.80	523.20
71.0	502.60	504.32	530.08	541.76	562.96	563.52	554.16	543.28	522.24	506.40
71.5	481.40	483.04	508.92	518.64	542.48	542.96	538.12	525.96	505.76	491.80
72.0	461.96	462.64	490.60	499.72	523.72	526.20	519.60	509.76	490.00	478.16
72.5	442.96	443.44	470.96	479.40	503.52	506.16	500.92	492.88	476.04	464.52
73.0	424.72	422.00	451.40	461.64	483.96	487.00	484.28	477.56	462.64	453.88
73.5	404.28	406.36	433.64	443.28	464.96	470.88	468.12	461.52	450.80	443.04
74.0	387.36	387.76	416.32	426.16	449.36	453.20	452.92	449.16	439.48	433.00
74.5	368.68	369.40	399.00	408.28	431.08	437.20	437.24	433.72	428.84	421.92
75.0	355.64	355.36	382.36	391.00	413.64	418.72	423.32	421.84	416.72	413.96
75.5	338.96	339.36	367.20	375.16	396.96	404.52	409.00	409.68	408.04	405.52
76.0	323.64	324.04	350.56	360.88	381.56	390.56	394.44	398.28	398.12	398.56
76.5	308.60	309.72	337.44	345.96	366.12	376.00	382.16	386.64	390.64	393.16
77.0	292.04	296.44	321.76	331.04	352.44	362.44	369.56	376.44	383.32	388.08
77.5	282.04	282.96	308.84	317.32	337.48	351.08	356.08	365.60	375.96	385.04
78.0	267.52	268.64	295.32	303.84	324.68	338.20	344.40	354.80	370.56	380.52
78.5	253.76	255.64	281.72	290.80	312.12	323.80	333.60	344.16	364.84	379.16
79.0	242.92	244.00	269.88	278.16	300.32	312.28	321.72	336.88	360.44	376.96
79.5	230.92	232.56	257.96	265.04	287.16	300.40	311.84	329.08	358.24	375.60
80.0	217.28	221.48	243.60	252.64	275.16	290.72	302.64	322.44	354.72	374.00
80.5	207.72	208.68	233.00	241.64	262.80	279.48	293.12	313.76	349.68	372.08
81.0	196.32	197.12	220.52	229.04	250.36	269.72	285.84	308.96	346.80	368.96
81.5	185.52	186.36	209.76	217.60	240.00	259.96	278.68	302.44	342.40	367.00
82.0	173.40	173.24	197.16	205.72	227.16	249.28	270.28	296.00	338.16	363.68
82.5	163.28	165.24	186.80	193.88	217.16	241.16	263.12	289.20	334.68	358.36

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83.0	150.44	151.88	175.32	183.40	205.00	231.84	253.08	282.32	329.56	352.52
83.5	138.32	140.12	163.84	171.40	193.96	223.60	246.04	275.40	322.08	343.68
84.0	124.44	130.40	152.92	160.00	184.56	214.20	238.00	267.28	314.04	333.12
84.5	112.76	118.04	141.40	148.52	174.00	206.20	229.96	260.40	305.44	318.48
85.0	104.40	106.12	130.04	138.16	162.76	195.48	222.96	250.88	293.64	305.00
85.5	88.64	95.92	118.76	126.56	152.40	188.28	212.84	242.36	281.08	287.84
86.0	76.84	84.36	107.36	115.40	142.24	179.20	205.24	230.80	265.96	271.40
86.5	62.80	73.72	95.68	103.24	130.52	170.48	194.08	220.36	250.24	254.84
87.0	51.56	61.76	83.56	93.40	119.80	162.32	184.96	209.00	233.36	240.52
87.5	37.88	50.60	72.12	80.56	110.52	153.44	176.04	196.84	217.48	227.72
88.0	26.36	39.92	62.72	71.32	100.44	144.96	167.40	182.80	204.36	218.20
88.5	14.72	29.76	50.24	59.84	91.92	136.48	158.24	173.60	194.92	210.28
89.0	7.08	18.92	44.16	52.64	85.12	130.72	149.80	165.00	186.88	203.24
89.5	0.00	13.12	39.72	47.28	79.72	124.72	142.68	154.76	179.44	198.64
90.0	0.00	10.52	37.36	44.00	77.24	121.32	135.84	149.72	175.68	196.72
90.5	0.00	11.72	37.24	44.12	75.68	118.20	133.56	145.04	175.20	196.40
91.0	0.00	10.76	36.92	44.12	76.60	118.24	130.60	144.24	174.84	200.00
91.5	0.00	10.68	36.44	45.28	77.20	115.00	127.92	143.68	176.64	206.84
92.0	0.00	9.60	37.28	46.00	79.08	114.28	128.08	141.84	181.12	212.84
92.5	0.00	11.04	37.32	45.52	76.36	113.16	127.04	142.64	185.32	218.08
93.0	0.00	11.24	39.36	46.68	78.88	110.72	126.84	144.84	189.72	224.52
93.5	0.00	9.52	38.16	47.32	79.40	112.08	127.64	147.04	196.20	233.36
94.0	0.00	10.80	38.60	47.40	77.16	111.48	128.56	148.64	202.32	239.76
94.5	0.00	11.60	39.36	48.32	77.24	112.20	130.96	153.16	207.80	244.76
95.0	0.00	10.12	39.96	48.88	77.44	113.88	132.88	157.84	213.32	249.96
95.5	0.00	11.60	39.88	49.16	78.40	114.40	135.76	161.24	218.68	255.96
96.0	0.00	10.52	39.44	47.36	77.68	116.76	138.88	165.88	224.24	259.52
96.5	0.00	11.24	39.84	49.12	78.68	119.04	143.24	171.16	228.24	267.48
97.0	4.92	10.96	39.60	49.92	78.56	120.80	146.40	175.72	232.72	268.52
97.5	0.00	12.28	40.92	49.52	80.12	122.52	150.68	178.52	235.64	270.08
98.0	0.00	12.20	41.00	49.92	80.80	125.72	152.20	182.00	239.16	267.12
98.5	0.00	11.68	41.20	50.36	82.00	128.52	156.24	186.52	240.52	266.68
99.0	0.00	12.16	43.00	51.12	84.00	130.92	159.60	186.88	241.80	264.52
99.5	0.00	13.40	41.56	51.12	84.56	132.88	162.04	193.24	239.72	261.12
100.0	0.00	12.00	43.72	51.48	87.04	135.24	164.52	194.56	237.60	255.20
100.5	0.00	12.72	42.84	53.04	86.12	138.68	166.08	194.68	235.76	249.40
101.0	0.00	13.68	45.60	53.16	87.64	141.48	166.52	195.08	231.80	245.12
101.5	0.00	13.20	45.40	54.44	88.12	142.76	169.20	193.92	226.48	238.20
102.0	0.00	14.40	46.24	53.28	91.16	142.52	168.12	192.88	222.56	231.32
102.5	0.00	14.44	47.08	56.56	90.80	143.64	168.72	190.40	216.76	225.68
103.0	0.00	14.56	46.56	56.64	90.96	144.32	168.28	188.28	209.08	217.88
103.5	0.00	13.92	47.84	57.32	92.60	144.84	165.24	183.44	204.72	211.84
104.0	0.00	14.96	48.36	58.44	94.16	143.56	165.40	180.68	199.52	206.00
104.5	0.00	16.00	49.24	58.60	93.04	142.60	161.44	175.36	193.44	200.08
105.0	0.00	15.92	47.76	59.24	95.40	139.40	158.88	172.20	187.48	194.72
105.5	0.00	15.68	48.72	60.24	95.80	139.52	156.24	166.96	182.76	189.12
106.0	4.96	15.12	49.32	61.32	96.96	138.48	152.16	163.40	178.44	184.76
106.5	0.00	16.44	50.48	60.00	96.04	137.40	149.88	160.16	174.72	181.08
107.0	5.28	18.24	50.32	62.12	96.12	134.24	146.60	157.52	170.84	178.96
107.5	4.80	17.20	52.16	62.96	96.40	131.96	145.84	155.44	169.08	176.24
108.0	0.00	18.64	53.60	63.44	96.64	130.12	143.84	154.20	167.92	173.68
108.5	5.28	19.36	54.12	62.08	94.96	128.96	140.92	150.80	165.28	172.80
109.0	0.00	18.68	54.28	64.20	95.40	127.12	140.28	149.52	164.60	171.32
109.5	5.48	18.64	55.28	62.72	95.40	126.08	138.12	148.56	164.68	170.40
110.0	0.00	20.88	55.12	66.00	94.44	126.56	138.04	147.28	162.48	168.84
110.5	0.00	19.76	56.28	65.84	95.40	125.56	138.44	149.08	162.40	168.20

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111.0	5.04	20.92	56.20	65.52	95.16	125.48	138.16	146.24	162.36	168.40
111.5	4.80	20.40	56.80	65.60	94.88	126.12	138.48	147.96	162.68	168.08
112.0	6.56	21.84	57.12	66.72	94.72	127.16	139.24	148.32	164.84	169.16
112.5	7.16	21.16	59.48	66.32	94.68	126.56	138.52	149.04	165.28	170.80
113.0	0.00	22.72	58.60	69.12	95.60	127.80	140.80	149.12	164.40	170.28
113.5	5.60	22.16	59.60	68.76	97.12	129.16	142.16	150.68	167.76	171.76
114.0	0.00	22.24	58.84	69.56	97.32	129.56	141.64	153.00	168.12	173.24
114.5	5.16	22.64	60.88	69.92	97.92	131.04	143.16	154.20	169.04	173.96
115.0	5.48	23.60	61.20	71.08	98.48	131.08	144.80	156.48	171.24	176.04
115.5	0.00	23.24	62.32	71.20	99.16	133.60	144.96	156.32	171.72	176.44
116.0	7.24	24.20	63.16	70.52	99.88	134.24	147.96	157.12	172.24	178.72
116.5	5.00	23.60	62.68	72.16	99.68	134.36	148.60	159.20	175.36	180.00
117.0	5.44	24.76	62.80	72.16	101.52	137.44	149.48	161.72	175.68	181.72
117.5	0.00	24.56	62.72	71.52	102.12	136.04	152.36	162.88	177.56	183.52
118.0	6.40	22.48	63.76	71.04	103.24	138.16	152.64	164.04	177.76	183.20
118.5	5.84	26.28	63.96	73.72	103.92	139.80	153.00	164.40	179.48	185.56
119.0	6.44	25.68	64.92	75.84	106.00	140.32	153.16	165.40	181.08	186.16
119.5	0.00	25.52	64.36	74.80	104.84	141.76	155.08	166.28	182.32	189.20
120.0	8.56	25.04	65.12	74.08	105.56	142.28	155.44	168.60	182.52	188.52
120.5	8.24	23.92	64.96	74.84	106.76	142.12	156.92	169.36	183.56	190.64
121.0	7.80	25.40	64.08	73.28	106.36	142.92	157.40	169.60	185.48	191.56
121.5	8.28	26.12	62.64	74.80	105.48	142.08	158.40	169.88	186.04	192.28
122.0	7.68	25.84	63.60	73.72	105.16	143.16	157.92	171.12	186.76	192.88
122.5	6.64	25.76	64.68	74.20	105.84	141.32	156.32	170.24	185.44	192.92
123.0	7.96	25.56	64.16	73.92	104.08	142.36	158.08	170.64	186.52	192.92
123.5	7.08	23.84	63.64	72.64	105.28	141.96	157.48	168.56	186.92	192.56
124.0	8.36	24.52	62.04	73.08	104.40	140.24	157.76	167.76	185.72	193.44
124.5	8.04	24.40	61.40	71.24	102.04	140.16	155.72	168.92	184.84	192.88
125.0	9.20	24.20	60.48	70.96	101.56	140.24	153.56	167.08	185.16	192.76
125.5	6.84	24.20	59.24	69.68	98.92	139.44	152.72	166.12	184.60	192.96
126.0	9.76	24.56	58.60	68.56	99.04	136.64	152.00	164.72	184.16	191.28
126.5	7.84	25.16	59.20	68.32	97.84	135.92	150.52	162.96	182.68	191.12
127.0	8.44	23.20	59.48	66.68	97.00	134.96	149.72	163.16	180.52	188.96
127.5	8.76	23.92	56.16	65.24	94.48	133.68	148.00	161.20	178.68	187.40
128.0	8.40	23.20	55.72	65.20	93.72	130.16	146.12	157.80	177.04	185.68
128.5	7.92	22.84	54.92	62.88	91.00	129.28	144.08	155.60	175.76	184.32
129.0	8.44	22.72	54.20	62.12	90.68	126.80	141.36	153.92	174.84	182.24
129.5	9.88	21.92	53.48	61.32	88.48	125.48	138.32	152.40	171.96	179.92
130.0	8.60	22.64	51.96	61.12	89.08	123.72	137.04	149.84	169.28	177.48
130.5	7.28	22.08	50.80	58.60	85.28	120.52	135.40	149.08	165.76	175.60
131.0	9.80	21.96	50.96	57.32	82.16	117.92	131.80	145.68	162.68	173.32
131.5	9.32	22.28	48.08	56.72	82.12	116.12	129.40	141.52	161.00	170.60
132.0	9.60	19.44	46.88	54.64	78.64	112.80	127.60	140.20	159.20	166.88
132.5	10.28	21.00	47.84	54.52	78.80	110.84	124.40	138.36	155.88	164.68
133.0	10.28	20.32	46.20	52.76	77.20	108.40	122.08	134.72	153.60	162.80
133.5	10.28	18.60	44.12	51.52	74.28	106.96	118.92	132.36	150.00	160.60
134.0	11.36	21.16	43.84	50.04	72.56	103.28	116.56	128.68	146.92	156.56
134.5	11.88	19.72	42.56	50.32	70.28	102.56	113.24	126.92	144.36	153.68
135.0	9.36	18.96	43.56	48.84	69.60	98.16	110.16	122.76	140.16	151.32
135.5	10.28	18.80	40.20	48.16	68.56	96.56	107.96	119.40	138.00	147.08
136.0	10.80	18.96	39.40	46.52	66.80	93.20	105.64	116.92	136.64	143.80
136.5	9.16	18.64	38.96	44.92	63.92	90.76	102.96	114.24	132.04	140.40
137.0	9.00	17.12	39.68	45.12	63.48	87.20	99.16	111.00	127.72	136.32
137.5	10.60	18.16	37.12	43.12	63.20	85.68	96.76	107.56	124.56	133.68
138.0	9.52	18.24	37.56	41.80	60.32	83.96	94.24	104.44	120.36	129.68
138.5	11.32	19.04	35.52	40.24	58.72	81.88	92.12	102.28	117.28	126.84

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139.0	12.08	17.48	36.16	40.24	56.48	79.52	88.44	99.20	115.76	123.92
139.5	10.48	17.40	34.72	38.80	55.84	76.60	86.00	97.00	112.08	119.92
140.0	12.32	16.20	33.80	38.32	53.68	76.20	83.12	94.64	108.68	116.32
140.5	11.16	17.08	32.64	36.96	52.32	73.52	81.40	90.48	106.40	113.68
141.0	8.92	17.36	33.16	37.24	51.64	72.32	78.84	88.16	103.72	110.52
141.5	10.96	16.12	32.20	36.32	50.24	68.56	78.24	86.40	99.92	106.16
142.0	11.60	16.52	30.08	35.16	50.20	67.04	74.84	81.72	98.80	104.04
142.5	10.48	15.32	31.20	34.64	47.80	65.20	73.56	81.12	94.28	101.68
143.0	11.08	16.60	30.24	32.92	48.52	64.96	72.36	78.92	91.48	97.60
143.5	10.64	16.92	29.08	33.00	46.76	62.12	69.60	76.40	87.88	95.84
144.0	11.52	15.44	29.68	31.20	44.80	61.64	67.36	75.84	86.76	92.84
144.5	9.76	14.88	28.92	31.80	42.24	59.24	65.32	72.96	85.56	89.96
145.0	11.88	13.88	28.88	31.40	42.96	58.20	65.04	70.28	81.64	88.56
145.5	10.20	16.48	28.20	30.84	43.28	57.64	62.40	69.00	80.24	86.40
146.0	11.08	14.36	26.64	30.16	41.36	57.20	60.60	66.80	77.84	84.12
146.5	11.72	16.52	26.64	29.20	40.96	55.00	58.96	63.68	74.96	80.80
147.0	11.32	14.24	26.48	28.80	40.44	51.56	58.36	63.44	74.32	78.20
147.5	10.56	15.64	25.76	28.16	39.64	51.64	57.76	61.40	71.12	79.04
148.0	11.72	14.76	25.20	27.56	38.44	49.76	55.16	59.80	69.44	75.32
148.5	12.68	14.80	25.40	27.48	38.48	48.04	53.36	59.96	68.40	73.24
149.0	11.52	14.56	25.44	27.00	36.84	49.20	53.48	57.60	66.04	71.08
149.5	13.80	15.16	23.72	25.76	36.32	47.20	50.68	55.32	64.48	68.44
150.0	12.48	15.40	23.76	25.88	34.88	47.52	49.76	55.00	62.88	66.56
150.5	11.56	13.80	23.28	26.00	32.96	44.60	49.80	54.00	60.36	65.12
151.0	13.24	14.84	23.44	24.84	34.04	44.12	47.84	54.04	58.60	62.76
151.5	13.08	14.80	22.40	24.68	33.88	42.76	46.88	50.28	56.72	62.68
152.0	12.48	15.40	21.76	24.28	33.00	42.68	46.04	48.68	56.08	59.64
152.5	12.76	14.24	21.76	24.00	32.08	42.16	43.16	48.44	55.20	58.36
153.0	11.40	14.64	21.92	22.72	30.00	39.68	43.68	47.08	53.96	58.76
153.5	11.64	13.56	20.88	22.88	28.96	38.24	41.48	46.20	52.92	55.16
154.0	12.04	14.04	21.40	23.00	28.84	39.24	40.64	44.80	49.80	55.44
154.5	12.00	14.08	20.00	22.60	29.16	39.24	40.48	43.60	48.84	53.12
155.0	12.48	14.20	19.16	20.80	27.08	37.00	38.76	42.12	48.76	52.52
155.5	12.04	14.72	20.00	22.36	27.32	36.72	37.00	42.48	46.32	49.56
156.0	11.04	13.56	20.16	21.48	26.68	35.00	36.88	40.80	46.60	48.20
156.5	11.88	12.80	20.08	20.96	24.48	34.52	36.44	39.00	44.92	47.92
157.0	12.96	13.20	18.64	17.72	25.28	32.76	37.08	38.68	44.20	46.56
157.5	12.24	13.72	17.36	18.44	25.40	33.24	34.04	38.08	42.32	44.20
158.0	13.52	13.28	18.68	19.68	25.32	31.84	34.04	36.96	39.64	45.04
158.5	11.68	12.16	16.88	19.08	23.40	30.64	33.12	35.64	39.52	42.52
159.0	11.16	13.24	17.60	18.40	23.16	30.28	31.88	36.24	39.56	41.64
159.5	9.72	12.92	18.04	17.32	23.28	28.44	31.04	34.40	39.04	41.88
160.0	11.48	12.68	15.52	17.44	21.80	27.92	30.12	32.20	37.76	39.72
160.5	11.72	11.92	15.72	17.64	22.16	26.64	27.48	32.56	36.08	39.08
161.0	10.24	11.40	16.48	15.64	20.48	26.60	28.00	29.80	35.04	37.64
161.5	11.08	12.04	14.72	15.56	20.68	25.84	26.92	30.48	33.96	36.24
162.0	12.08	12.24	14.48	15.88	19.96	24.68	28.08	29.72	33.52	35.88
162.5	10.00	13.32	14.04	16.16	20.92	25.08	25.92	27.76	32.52	34.16
163.0	11.32	12.88	14.56	15.08	17.96	23.64	25.08	27.12	30.64	33.96
163.5	11.12	12.12	14.88	15.40	19.00	23.88	23.80	26.80	29.68	33.28
164.0	12.08	11.88	14.96	14.64	17.80	23.84	22.80	25.80	30.36	32.96
164.5	10.36	10.64	14.88	14.32	19.32	22.96	22.28	24.44	30.12	31.20
165.0	13.24	10.72	15.32	14.44	17.00	22.00	21.08	23.92	27.64	29.64
165.5	11.12	12.56	15.28	14.16	17.04	20.48	21.16	22.12	25.68	28.60
166.0	12.36	12.88	14.24	12.24	16.40	20.76	21.48	22.56	25.72	27.08
166.5	11.92	11.84	12.92	13.72	15.44	20.20	19.48	20.80	24.04	26.48

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CANDELA TABULATION - (Cont.)

167.0	11.44	11.44	13.64	12.76	14.48	18.40	18.80	20.48	24.08	25.52
167.5	10.96	12.56	14.12	11.76	14.24	17.48	19.84	20.28	23.32	25.56
168.0	12.60	11.92	13.12	12.84	15.20	18.72	18.84	19.92	23.12	23.76
168.5	11.52	10.80	13.68	13.28	15.60	16.80	17.80	18.92	21.52	23.44
169.0	10.84	11.28	13.76	13.00	15.52	15.08	16.72	17.48	17.96	21.24
169.5	11.68	11.64	14.36	12.52	14.64	16.56	16.00	16.80	19.04	21.44
170.0	12.92	11.20	13.72	12.32	14.04	16.24	14.88	16.52	18.64	18.60
170.5	12.52	12.40	12.96	11.28	13.92	14.80	16.60	18.12	18.68	17.48
171.0	12.64	12.16	12.20	12.44	13.52	15.76	15.12	15.56	16.60	18.28
171.5	13.56	11.88	12.76	11.20	12.20	14.32	15.76	16.28	16.36	17.96
172.0	12.64	11.76	12.20	13.08	13.88	14.20	14.20	15.12	16.32	17.36
172.5	10.64	11.52	11.20	11.32	12.20	12.72	13.12	14.44	15.48	15.24
173.0	11.36	11.88	12.00	12.28	13.96	13.00	13.28	14.00	14.92	14.60
173.5	9.88	11.52	11.76	13.24	11.20	13.44	13.32	13.20	14.96	13.84
174.0	12.48	10.80	13.28	9.88	12.04	11.40	12.80	12.24	12.32	14.12
174.5	12.44	11.00	11.48	10.48	11.08	12.64	13.08	12.20	14.16	13.52
175.0	11.84	9.88	11.72	11.64	11.72	11.52	12.88	12.04	13.08	13.48
175.5	12.32	11.40	11.84	10.76	11.28	10.56	10.80	10.88	12.84	12.76
176.0	11.80	11.48	11.36	10.04	10.36	12.44	11.92	11.80	12.64	12.92
176.5	13.64	9.76	11.16	10.12	10.84	10.96	11.76	11.08	12.24	12.56
177.0	10.08	11.00	10.28	11.48	12.84	10.96	11.20	10.56	12.88	12.88
177.5	10.76	10.76	11.20	10.44	9.80	10.48	9.40	10.20	12.72	11.04
178.0	12.04	10.12	11.72	10.40	12.00	11.56	10.72	9.64	10.60	10.80
178.5	10.52	9.60	11.20	10.84	11.16	11.52	11.28	9.72	10.68	12.72
179.0	11.52	10.28	12.12	9.64	12.16	11.08	10.20	9.16	9.88	10.76
179.5	12.76	11.56	10.28	10.04	10.08	10.56	10.76	10.32	8.36	11.68
180.0	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56	10.56

Vert. Horizontal Angles
Angles

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>
0.0	3953.28	3953.28	3953.28
0.5	3951.96	3953.36	3959.88
1.0	3955.08	3955.52	3960.24
1.5	3960.68	3964.20	3969.64
2.0	3969.08	3972.64	3977.96
2.5	3981.88	3983.80	3990.16
3.0	3992.24	3996.72	4004.32
3.5	4004.20	4007.20	4013.68
4.0	4013.88	4018.56	4023.88
4.5	4023.16	4027.52	4034.48
5.0	4034.12	4038.00	4046.32
5.5	4045.32	4046.24	4054.48
6.0	4054.76	4051.68	4057.12
6.5	4061.52	4054.92	4059.52
7.0	4063.52	4053.56	4055.52
7.5	4062.36	4050.04	4048.36
8.0	4056.64	4039.16	4038.56
8.5	4046.36	4027.12	4024.24
9.0	4029.52	4007.60	4003.72
9.5	4011.80	3987.88	3979.40
10.0	3989.92	3961.48	3951.40
10.5	3962.56	3932.64	3920.60
11.0	3932.12	3905.52	3891.52
11.5	3903.08	3879.56	3865.84
12.0	3876.04	3853.84	3842.00

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CANDELA TABULATION - (Cont.)

12.5	3852.00	3832.56	3823.32
13.0	3830.80	3816.08	3810.12
13.5	3814.56	3803.20	3799.80
14.0	3800.64	3795.00	3794.32
14.5	3794.08	3796.24	3795.16
15.0	3791.72	3802.52	3801.08
15.5	3795.36	3813.76	3813.04
16.0	3804.68	3831.36	3829.48
16.5	3816.20	3846.72	3843.16
17.0	3831.52	3860.52	3857.00
17.5	3844.64	3872.08	3868.92
18.0	3853.60	3879.52	3874.64
18.5	3858.76	3877.88	3871.28
19.0	3855.60	3866.20	3858.76
19.5	3847.76	3847.84	3837.92
20.0	3832.56	3824.40	3811.08
20.5	3810.84	3794.52	3781.32
21.0	3784.12	3762.44	3749.72
21.5	3753.60	3728.52	3713.08
22.0	3721.12	3695.04	3680.40
22.5	3689.28	3664.04	3651.48
23.0	3655.36	3637.28	3622.88
23.5	3625.04	3613.16	3602.44
24.0	3598.64	3596.12	3584.56
24.5	3577.76	3582.92	3575.28
25.0	3558.88	3574.72	3567.76
25.5	3545.84	3569.44	3567.80
26.0	3537.92	3561.92	3565.04
26.5	3529.48	3552.88	3555.84
27.0	3523.24	3538.04	3541.88
27.5	3516.20	3521.16	3523.00
28.0	3504.28	3498.12	3498.76
28.5	3487.12	3474.76	3474.16
29.0	3468.20	3453.48	3451.56
29.5	3445.16	3431.04	3429.84
30.0	3421.80	3412.40	3409.32
30.5	3398.88	3394.76	3391.84
31.0	3378.04	3378.84	3384.96
31.5	3357.88	3364.12	3377.00
32.0	3340.88	3350.44	3366.56
32.5	3323.16	3336.84	3355.40
33.0	3305.16	3319.72	3342.00
33.5	3287.08	3298.44	3314.92
34.0	3266.92	3271.64	3283.40
34.5	3246.12	3238.88	3246.36
35.0	3222.72	3203.20	3204.64
35.5	3194.24	3163.88	3162.24
36.0	3164.60	3126.60	3120.88
36.5	3128.44	3088.92	3086.56
37.0	3089.80	3055.56	3057.52
37.5	3051.96	3025.12	3027.08
38.0	3013.00	2994.12	2999.72
38.5	2977.16	2965.56	2969.04
39.0	2943.32	2936.28	2937.68
39.5	2907.88	2905.08	2907.32
40.0	2872.92	2871.96	2875.12

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CANDELA TABULATION - (Cont.)

40.5	2837.32	2838.60	2844.12
41.0	2802.32	2804.20	2812.40
41.5	2767.16	2770.44	2784.04
42.0	2730.00	2740.00	2755.40
42.5	2691.08	2706.24	2721.52
43.0	2653.00	2671.12	2688.72
43.5	2613.92	2633.08	2649.76
44.0	2574.28	2591.92	2609.00
44.5	2532.32	2548.12	2559.12
45.0	2489.48	2499.80	2508.28
45.5	2443.04	2448.96	2455.96
46.0	2395.40	2394.32	2394.40
46.5	2344.96	2339.28	2334.44
47.0	2294.52	2279.72	2272.76
47.5	2242.12	2221.88	2211.64
48.0	2186.80	2160.00	2146.88
48.5	2132.72	2098.28	2086.04
49.0	2076.80	2036.64	2024.48
49.5	2019.56	1975.72	1960.92
50.0	1962.68	1916.60	1901.52
50.5	1905.00	1855.80	1840.52
51.0	1846.44	1795.56	1782.76
51.5	1788.48	1738.92	1725.44
52.0	1731.08	1683.20	1667.28
52.5	1673.72	1628.04	1612.76
53.0	1617.52	1574.20	1557.36
53.5	1565.76	1523.36	1507.24
54.0	1513.44	1473.08	1458.20
54.5	1461.84	1425.24	1409.40
55.0	1412.36	1378.96	1363.08
55.5	1365.64	1335.44	1319.52
56.0	1320.64	1294.28	1275.60
56.5	1277.76	1253.64	1236.88
57.0	1237.76	1214.00	1195.56
57.5	1198.08	1175.20	1158.76
58.0	1159.68	1137.04	1120.96
58.5	1121.80	1101.88	1082.36
59.0	1087.28	1064.84	1046.16
59.5	1051.96	1029.00	1013.32
60.0	1017.96	995.24	976.64
60.5	985.68	961.72	945.04
61.0	953.28	928.32	913.44
61.5	922.00	896.44	881.84
62.0	893.40	867.20	852.28
62.5	864.48	837.60	820.76
63.0	834.60	807.36	792.64
63.5	808.32	779.52	763.60
64.0	779.68	752.24	737.68
64.5	753.24	727.92	711.80
65.0	729.12	705.52	691.84
65.5	706.48	683.24	668.16
66.0	682.88	660.52	648.44
66.5	662.24	641.16	629.88
67.0	642.48	621.00	610.48
67.5	624.04	602.80	592.00
68.0	603.84	583.52	573.76

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CANDELA TABULATION - (Cont.)

68.5	584.68	566.40	558.40
69.0	567.40	547.80	541.32
69.5	550.04	532.20	525.20
70.0	532.36	515.68	510.68
70.5	516.60	501.72	497.44
71.0	501.24	487.52	484.00
71.5	485.92	475.44	472.12
72.0	472.84	464.24	464.20
72.5	461.88	454.44	457.40
73.0	452.08	445.52	448.84
73.5	440.84	436.20	442.64
74.0	431.24	429.40	433.28
74.5	420.76	422.24	430.16
75.0	413.08	417.60	427.20
75.5	404.52	412.24	423.44
76.0	399.16	409.16	421.72
76.5	394.36	406.44	421.60
77.0	391.64	407.04	424.36
77.5	386.48	409.32	424.60
78.0	386.00	408.84	427.16
78.5	383.96	408.04	426.80
79.0	383.52	409.60	427.52
79.5	380.36	411.64	432.36
80.0	380.12	411.32	429.04
80.5	379.96	409.28	428.64
81.0	376.40	405.92	427.04
81.5	372.60	402.60	421.80
82.0	369.64	398.40	413.40
82.5	364.48	390.28	404.12
83.0	357.00	378.96	390.28
83.5	347.96	364.80	373.68
84.0	335.60	345.88	352.48
84.5	320.84	330.88	332.44
85.0	304.84	311.72	314.04
85.5	287.84	294.52	296.60
86.0	271.56	279.16	280.40
86.5	255.36	264.92	268.72
87.0	243.00	253.44	256.16
87.5	228.08	241.84	248.20
88.0	221.32	236.32	243.56
88.5	212.72	229.44	237.36
89.0	208.20	225.44	231.92
89.5	203.28	222.76	231.32
90.0	201.88	224.08	233.60
90.5	202.24	230.60	242.00
91.0	208.52	235.52	248.60
91.5	214.44	244.96	255.20
92.0	221.48	252.28	263.92
92.5	226.64	259.20	270.00
93.0	235.04	265.88	279.88
93.5	241.96	274.12	285.76
94.0	249.04	281.20	292.84
94.5	253.88	286.08	298.44
95.0	257.96	291.68	303.96
95.5	264.84	296.16	306.16
96.0	270.80	300.12	309.52

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CANDELA TABULATION - (Cont.)

96.5	274.44	299.88	304.20
97.0	274.52	299.08	303.84
97.5	275.32	295.12	298.12
98.0	273.60	290.16	292.48
98.5	272.44	285.16	286.44
99.0	268.00	279.92	280.72
99.5	263.28	271.12	273.00
100.0	258.24	265.32	265.20
100.5	251.84	258.76	261.04
101.0	245.08	252.64	251.72
101.5	240.40	244.80	245.16
102.0	234.44	239.08	240.52
102.5	227.48	232.12	232.36
103.0	219.56	224.56	226.00
103.5	213.96	216.32	217.44
104.0	206.68	207.88	210.32
104.5	200.68	202.44	204.68
105.0	195.28	198.20	199.48
105.5	191.28	194.48	194.12
106.0	186.20	191.28	190.40
106.5	182.80	187.28	187.84
107.0	178.44	184.28	184.48
107.5	175.92	180.76	181.72
108.0	175.00	177.48	178.08
108.5	173.12	175.44	178.40
109.0	170.96	175.32	174.84
109.5	170.40	174.64	175.52
110.0	169.48	173.56	173.00
110.5	169.80	172.68	172.44
111.0	169.88	172.00	172.40
111.5	169.32	171.52	170.68
112.0	170.48	174.00	174.60
112.5	169.04	173.08	174.52
113.0	171.96	175.08	175.88
113.5	172.60	175.48	174.72
114.0	174.08	176.16	177.44
114.5	173.88	177.92	176.68
115.0	176.96	178.92	179.00
115.5	177.52	179.60	180.56
116.0	179.08	181.60	181.16
116.5	180.36	181.92	182.20
117.0	182.04	184.80	183.08
117.5	182.88	186.56	185.60
118.0	184.00	186.64	186.68
118.5	186.44	188.72	187.40
119.0	188.36	190.40	189.12
119.5	188.56	191.64	190.28
120.0	190.72	191.12	192.12
120.5	190.20	191.20	191.60
121.0	191.72	193.36	192.76
121.5	191.76	194.16	193.60
122.0	193.88	194.84	194.12
122.5	193.40	196.32	196.60
123.0	193.80	195.32	195.24
123.5	195.08	198.20	195.44
124.0	194.40	195.96	199.16

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124.5	194.60	195.88	194.24
125.0	193.00	196.40	195.40
125.5	192.08	194.76	195.88
126.0	191.56	194.64	193.88
126.5	191.20	193.24	193.28
127.0	189.84	193.60	191.92
127.5	189.52	190.24	192.36
128.0	187.16	189.88	190.92
128.5	185.12	188.12	190.48
129.0	184.28	187.00	187.12
129.5	181.80	184.16	185.52
130.0	180.72	182.48	185.72
130.5	176.72	181.00	181.00
131.0	174.16	177.92	179.56
131.5	171.68	176.68	175.88
132.0	169.20	174.32	173.80
132.5	166.32	170.96	169.68
133.0	164.32	168.20	168.48
133.5	161.68	165.32	165.84
134.0	157.48	162.28	162.80
134.5	154.76	159.12	160.48
135.0	153.00	157.28	156.48
135.5	146.72	153.20	154.60
136.0	145.60	149.84	150.16
136.5	140.48	147.28	147.20
137.0	138.36	143.60	146.52
137.5	134.80	140.12	142.12
138.0	131.24	136.84	137.64
138.5	127.72	134.40	134.16
139.0	124.24	131.04	133.36
139.5	120.64	127.32	129.96
140.0	118.84	124.44	126.44
140.5	115.08	120.16	121.32
141.0	111.28	116.00	119.84
141.5	108.64	114.28	115.88
142.0	105.36	110.72	111.40
142.5	102.88	110.40	109.52
143.0	98.56	105.20	107.08
143.5	97.08	100.80	103.96
144.0	92.48	97.96	99.48
144.5	91.92	97.08	97.12
145.0	88.76	93.08	95.32
145.5	86.80	92.08	92.12
146.0	84.92	90.48	90.44
146.5	81.08	86.56	87.32
147.0	78.16	83.84	86.20
147.5	76.68	82.44	83.88
148.0	74.12	79.12	79.72
148.5	73.56	77.80	77.24
149.0	70.36	74.84	75.40
149.5	70.00	73.84	75.80
150.0	68.36	70.96	73.60
150.5	66.28	68.48	70.36
151.0	64.64	67.20	69.28
151.5	61.48	64.96	68.24
152.0	61.64	64.80	65.08

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CANDELA TABULATION - (Cont.)

152.5	59.16	63.84	63.28
153.0	58.32	62.00	62.12
153.5	56.32	60.24	60.64
154.0	54.80	59.04	59.40
154.5	52.40	56.60	57.96
155.0	51.24	54.36	57.12
155.5	50.64	54.32	53.08
156.0	49.68	52.88	54.20
156.5	48.04	51.28	52.20
157.0	46.92	49.92	51.36
157.5	46.60	48.44	48.88
158.0	43.88	47.92	48.52
158.5	43.08	46.52	46.32
159.0	41.36	46.72	44.40
159.5	40.24	45.32	43.16
160.0	39.76	43.16	43.56
160.5	37.92	40.92	43.08
161.0	38.80	40.20	40.92
161.5	36.12	40.08	38.72
162.0	35.64	38.88	38.60
162.5	34.60	36.88	37.88
163.0	33.16	36.96	37.04
163.5	32.80	36.08	34.84
164.0	31.64	34.40	35.92
164.5	29.48	33.44	33.56
165.0	29.76	32.08	31.80
165.5	29.20	29.92	30.32
166.0	28.04	29.68	27.76
166.5	26.12	28.72	29.04
167.0	25.84	27.48	27.00
167.5	23.76	27.28	25.24
168.0	22.48	26.20	25.64
168.5	23.48	23.76	23.76
169.0	20.04	23.08	25.68
169.5	20.36	22.60	23.16
170.0	19.36	20.76	23.04
170.5	17.68	20.84	20.12
171.0	16.56	20.76	20.24
171.5	16.68	18.96	19.16
172.0	16.72	18.64	17.12
172.5	15.56	19.64	16.12
173.0	14.28	15.76	15.80
173.5	12.48	17.00	15.96
174.0	12.92	13.64	15.64
174.5	12.96	14.52	14.96
175.0	12.24	14.76	13.28
175.5	12.64	13.20	13.44
176.0	12.68	12.64	12.04
176.5	10.72	13.24	11.84
177.0	11.00	12.44	11.64
177.5	10.52	12.16	10.88
178.0	10.12	11.40	11.36
178.5	10.00	12.00	11.00
179.0	9.24	10.52	12.24
179.5	9.16	9.92	11.40
180.0	10.56	10.56	10.56

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1474.64	N.A.	13.90
0-30	3135.75	N.A.	29.60
0-40	5127.31	N.A.	48.50
0-60	8446.48	N.A.	79.80
0-80	9677.07	N.A.	91.40
0-90	9913.09	N.A.	93.70
10-90	9530.68	N.A.	90.10
20-40	3652.66	N.A.	34.50
20-50	5591.17	N.A.	52.80
40-70	4111.53	N.A.	38.90
60-80	1230.59	N.A.	11.60
70-80	438.23	N.A.	4.10
80-90	236.03	N.A.	2.20
90-110	294.19	N.A.	2.80
90-120	414.60	N.A.	3.90
90-130	529.60	N.A.	5.00
90-150	644.21	N.A.	6.10
90-180	669.44	N.A.	6.30
110-180	375.25	N.A.	3.50
0-180	10582.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	382.41
10-20	1092.23
20-30	1661.1
30-40	1991.56
40-50	1938.51
50-60	1380.66
60-70	792.36
70-80	438.23
80-90	236.03
90-100	155.80
100-110	138.39
110-120	120.41
120-130	115.00
130-140	76.44
140-150	38.17
150-160	17.42
160-170	6.50
170-180	1.31

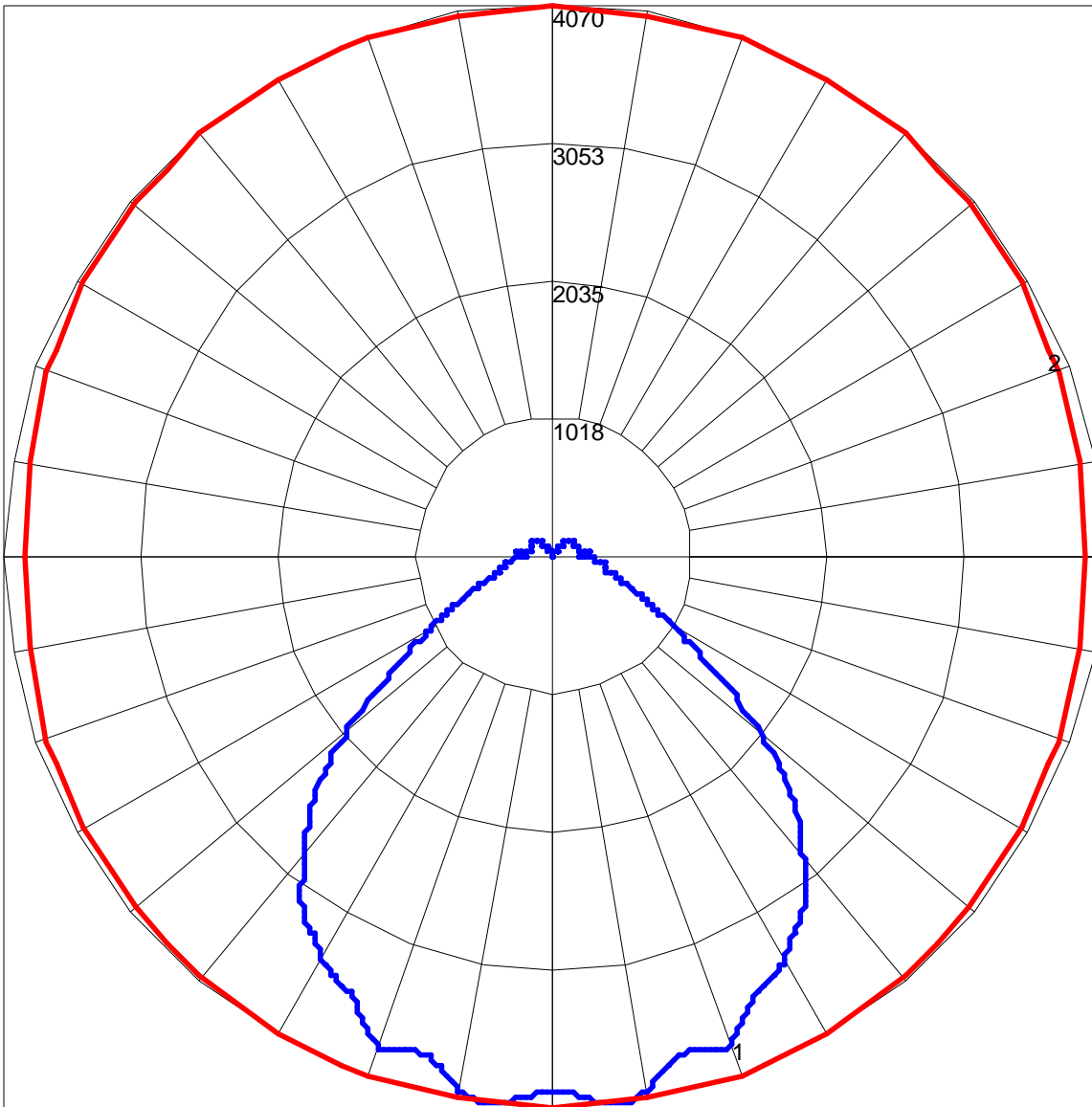
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	108	104	100	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80
2	99	91	85	80	96	89	83	78	85	80	76	80	77	73	77	73	71	68
3	91	81	74	68	88	79	72	67	75	69	65	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	58	52	48	56	51	47	45
6	72	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	41	39
7	66	54	45	39	64	53	45	39	50	44	38	49	42	38	47	41	37	35
8	62	49	41	35	60	48	40	35	46	39	34	45	38	34	43	37	33	31
9	58	45	37	32	56	44	37	32	43	36	31	41	35	31	40	34	30	28
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	28	26

POLAR GRAPH



Maximum Candela = 4070.2 Located At Horizontal Angle = 67.5, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)