



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-S1-80W-5000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-S1-80W-5000K-D120
 [TESTLAB] EVERFINE
 [TESTDATE] 2019-05-08
 [ISSUEDATE] 2019-05-08 09:38:32
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-S1-80W-5000K-D120
 [LUMCAT]] HZX-EX-S1-80W-5000K-D120
 [LAMP] 10558 LUMENS
 [_SEARCH_SOURCECTYPE] LED
 [OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	373.22	373.22	3.54	3.54
[OTHER]	10- 20	1082.52	1455.74	13.79	13.79
[OTHER]	20- 30	1653.03	3108.77	29.45	29.45
[OTHER]	30- 40	1945.48	5054.25	47.88	47.88
[OTHER]	40- 50	1979.24	7033.49	66.63	66.63
[OTHER]	50- 60	1761.38	8794.87	83.32	83.32
[OTHER]	60- 70	1222.07	10016.94	94.90	94.90
[OTHER]	70- 80	512.67	10529.61	99.75	99.75
[OTHER]	80- 90	26.13	10555.74	100.00	100.00
[OTHER]	90-100	0.00	10555.74	100.00	100.00
[OTHER]	100-110	0.00	10555.74	100.00	100.00
[OTHER]	110-120	0.00	10555.74	100.00	100.00
[OTHER]	120-130	0.00	10555.74	100.00	100.00
[OTHER]	130-140	0.00	10555.74	100.00	100.00
[OTHER]	140-150	0.00	10555.74	100.00	100.00
[OTHER]	150-160	0.00	10555.74	100.00	100.00
[OTHER]	160-170	0.00	10555.74	100.00	100.00
[OTHER]	170-180	0.00	10555.74	100.00	100.00
[OTHER]					

Note: Candela values converted from Type-B to Type-C

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CHARACTERISTICS

Lumens Per Lamp	10558 (1 lamp)
Total Lamp Lumens	10558
Luminaire Lumens	10558
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	81.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.20 m (Diameter)
Luminous Width (90-270)	0.20 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	130336	123420	118297
55	125891	120941	110600
65	114446	103610	84857
75	79738	75191	45018
85	0	0	9731

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3928.32	3928.33	3928.36	3928.43	3928.51	3928.63	3928.77	3928.93	3929.12	3929.34
5.0	3914.51	3914.51	3914.55	3914.65	3914.81	3914.97	3915.13	3915.33	3915.60	3915.87
7.5	3900.59	3900.63	3900.76	3900.95	3901.06	3901.22	3901.42	3901.56	3901.67	3901.87
10.0	3886.67	3886.80	3887.02	3887.16	3887.32	3887.46	3887.48	3887.60	3887.40	3887.29
12.5	3872.92	3872.82	3872.79	3872.53	3872.28	3871.84	3871.39	3870.83	3870.23	3869.59
15.0	3859.17	3858.74	3858.18	3857.33	3856.25	3855.02	3853.63	3852.00	3850.38	3848.41
17.5	3814.19	3814.34	3814.46	3814.53	3814.49	3814.21	3813.89	3813.55	3812.45	3812.32
20.0	3769.20	3769.90	3770.28	3770.33	3770.05	3769.48	3768.64	3766.70	3765.65	3763.80
22.5	3724.67	3724.78	3724.13	3723.23	3721.68	3719.63	3717.25	3714.66	3711.97	3709.30
25.0	3680.14	3679.45	3677.70	3675.10	3671.53	3667.02	3662.01	3656.51	3650.56	3644.31
27.5	3634.94	3635.04	3633.57	3630.58	3625.93	3619.54	3611.77	3602.33	3591.53	3578.91
30.0	3589.73	3590.80	3589.76	3586.73	3581.42	3573.51	3563.80	3552.13	3538.13	3522.01
32.5	3450.67	3451.73	3452.53	3452.95	3452.07	3451.10	3450.40	3448.92	3446.49	3443.55
35.0	3311.60	3311.65	3311.45	3309.77	3306.93	3304.13	3301.17	3296.51	3293.05	3287.50
37.5	3171.49	3172.79	3173.86	3172.77	3169.80	3165.48	3160.85	3154.28	3146.01	3134.20
40.0	3031.37	3034.13	3036.64	3037.18	3034.53	3030.80	3026.97	3021.81	3014.07	3003.39
42.5	2892.46	2894.79	2896.25	2895.22	2891.46	2888.68	2886.79	2883.97	2879.75	2874.33
45.0	2753.55	2755.40	2755.46	2751.81	2746.65	2743.94	2741.65	2738.30	2734.35	2730.50
47.5	2603.65	2606.80	2608.60	2606.59	2602.66	2600.20	2597.96	2593.85	2590.67	2588.34
50.0	2453.74	2458.32	2461.86	2461.92	2459.18	2457.14	2454.89	2450.57	2446.07	2442.77
52.5	2305.57	2309.81	2312.26	2311.49	2308.88	2307.63	2305.14	2300.39	2296.85	2295.83
55.0	2157.40	2161.25	2162.37	2160.89	2158.40	2155.25	2149.80	2142.00	2137.03	2133.90
57.5	2007.11	2012.25	2014.86	2014.90	2013.28	2009.53	2001.92	1990.64	1982.13	1973.94
60.0	1856.83	1863.33	1867.71	1869.83	1869.76	1866.70	1858.94	1846.77	1837.17	1828.36
62.5	1650.96	1655.20	1659.05	1664.50	1668.35	1668.73	1666.75	1663.35	1664.98	1666.69
65.0	1445.08	1446.38	1447.89	1453.58	1456.50	1452.56	1448.51	1446.59	1450.02	1447.97
67.5	1240.73	1237.72	1238.48	1244.55	1248.81	1244.62	1238.19	1237.46	1240.01	1233.99
70.0	1036.38	1029.06	1028.99	1036.02	1042.34	1038.92	1031.65	1033.22	1038.22	1032.29
72.5	826.49	819.18	817.84	827.22	832.57	821.72	821.41	824.74	831.34	823.91
75.0	616.60	609.22	606.80	618.23	621.99	604.87	609.76	615.12	617.66	604.79
77.5	308.30	305.41	306.65	316.65	324.10	321.20	332.35	345.25	354.87	352.64
80.0	0.00	1.13	4.51	10.28	18.21	27.31	39.18	53.09	67.75	80.86
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3929.57	3929.82	3930.09	3930.40	3930.72	3931.07	3931.44	3931.84	3932.26	3932.70
5.0	3916.21	3916.48	3916.82	3917.23	3917.70	3918.20	3918.64	3919.15	3919.73	3920.39
7.5	3901.96	3901.98	3902.08	3902.23	3902.18	3902.20	3902.31	3902.43	3902.40	3902.89
10.0	3887.06	3886.73	3886.44	3885.96	3885.51	3885.07	3884.40	3883.86	3883.37	3882.71
12.5	3868.91	3868.21	3867.53	3866.82	3866.28	3865.61	3864.24	3862.61	3861.15	3859.67
15.0	3846.42	3844.40	3842.27	3840.37	3838.43	3836.84	3835.26	3834.10	3833.02	3832.45
17.5	3811.70	3811.12	3810.87	3809.90	3805.90	3803.47	3800.75	3798.28	3796.29	3794.76
20.0	3761.90	3760.08	3758.29	3756.81	3755.99	3756.03	3757.06	3759.50	3755.99	3752.53
22.5	3706.85	3704.88	3701.98	3698.46	3695.70	3693.89	3692.98	3692.58	3693.62	3696.07
25.0	3638.13	3632.51	3627.73	3624.11	3622.09	3619.81	3619.74	3616.78	3615.49	3615.45
27.5	3565.47	3553.12	3543.31	3534.47	3527.22	3522.23	3519.98	3520.69	3524.13	3518.34
30.0	3504.36	3485.32	3464.99	3444.29	3424.42	3410.49	3403.11	3398.48	3396.43	3396.77

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CANDELA TABULATION - (Cont.)

32.5	3439.78	3414.43	3387.69	3361.06	3333.52	3310.34	3286.80	3264.86	3256.40	3252.69
35.0	3280.88	3272.43	3263.19	3251.76	3238.73	3208.75	3181.15	3156.42	3130.30	3110.24
37.5	3119.69	3112.25	3101.75	3091.03	3080.60	3071.59	3065.57	3050.87	3026.39	3001.47
40.0	2990.41	2974.71	2956.63	2936.82	2923.64	2916.37	2911.60	2909.76	2910.72	2902.24
42.5	2865.70	2851.72	2835.06	2816.40	2797.78	2779.63	2764.86	2759.46	2758.51	2759.16
45.0	2725.09	2718.22	2709.41	2699.93	2681.07	2664.81	2647.15	2628.29	2607.44	2601.42
47.5	2585.03	2576.75	2570.44	2560.70	2551.04	2542.67	2534.06	2512.17	2488.90	2464.34
50.0	2439.58	2434.92	2428.90	2422.38	2413.02	2402.12	2390.89	2380.43	2372.23	2350.21
52.5	2293.60	2287.45	2277.99	2267.43	2259.15	2251.88	2246.15	2234.08	2224.65	2215.28
55.0	2130.13	2123.54	2114.20	2106.76	2097.12	2083.57	2078.68	2075.15	2072.56	2057.39
57.5	1963.01	1945.58	1928.93	1914.94	1906.20	1905.48	1907.63	1904.12	1896.38	1885.06
60.0	1814.82	1789.76	1759.55	1731.27	1712.10	1706.38	1704.24	1706.87	1711.68	1710.02
62.5	1665.38	1638.97	1603.20	1570.11	1545.95	1526.83	1509.01	1496.89	1498.93	1500.68
65.0	1437.71	1421.00	1401.14	1387.37	1376.17	1360.19	1338.85	1322.76	1308.26	1286.07
67.5	1213.18	1193.93	1181.58	1175.31	1163.70	1153.78	1147.95	1146.88	1139.52	1113.79
70.0	1012.46	995.42	984.92	981.03	962.49	947.36	943.47	944.67	936.54	928.01
72.5	805.93	798.26	797.63	801.43	781.81	769.24	766.00	761.55	743.93	730.34
75.0	588.29	590.46	602.69	605.02	587.55	586.02	591.98	596.63	581.44	569.82
77.5	353.28	367.79	395.16	397.12	389.38	395.79	408.46	405.48	402.01	400.41
80.0	94.90	113.09	136.37	148.88	161.94	180.20	200.85	209.95	215.84	225.94
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.46	28.89	49.49
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3933.15	3933.64	3934.12	3934.61	3935.12	3935.65	3936.19	3936.76	3937.33	3937.92
5.0	3921.11	3921.84	3922.67	3923.47	3924.33	3925.27	3926.27	3927.34	3928.47	3929.66
7.5	3902.93	3903.42	3904.46	3905.32	3906.34	3907.52	3908.85	3909.93	3911.91	3913.55
10.0	3882.19	3881.23	3881.42	3881.08	3881.10	3882.10	3883.61	3885.23	3887.14	3889.32
12.5	3858.18	3856.90	3855.59	3854.38	3853.42	3852.64	3851.98	3852.29	3854.58	3856.26
15.0	3830.87	3828.41	3826.07	3823.94	3821.55	3820.41	3818.95	3817.83	3816.93	3818.40
17.5	3793.57	3792.92	3792.64	3790.57	3787.23	3783.80	3780.84	3778.23	3775.98	3774.28
20.0	3749.77	3747.47	3745.87	3744.99	3744.86	3742.14	3737.48	3732.63	3728.38	3724.68
22.5	3699.19	3694.54	3690.43	3687.10	3684.50	3683.65	3683.37	3674.96	3667.53	3660.57
25.0	3615.51	3614.88	3614.11	3605.81	3598.79	3595.30	3593.77	3595.85	3586.68	3577.38
27.5	3514.98	3507.91	3499.97	3487.42	3480.85	3474.09	3471.55	3473.73	3482.49	3467.66
30.0	3398.82	3391.01	3375.72	3355.86	3340.63	3323.14	3316.78	3321.10	3327.43	3333.73
32.5	3250.57	3249.45	3251.57	3223.95	3202.08	3177.31	3154.29	3154.28	3160.47	3169.89
35.0	3099.81	3095.47	3091.49	3084.35	3070.70	3043.17	3019.71	3000.20	3005.71	3013.56
37.5	2975.06	2946.42	2933.72	2932.70	2930.56	2922.65	2898.38	2876.53	2860.90	2866.05
40.0	2872.23	2839.49	2807.50	2789.78	2786.99	2787.17	2781.69	2755.68	2733.21	2724.77
42.5	2761.59	2741.43	2706.84	2672.04	2644.01	2642.12	2644.54	2638.38	2611.28	2586.07
45.0	2602.92	2607.62	2609.90	2569.69	2531.30	2498.45	2498.52	2502.85	2488.92	2459.13
47.5	2446.75	2445.16	2448.96	2458.40	2428.37	2386.71	2347.70	2349.16	2359.27	2333.05
50.0	2321.79	2296.29	2280.88	2288.44	2302.92	2283.15	2232.24	2193.79	2197.85	2200.64
52.5	2204.90	2172.17	2142.02	2116.98	2126.11	2140.23	2117.16	2060.31	2029.32	2041.48
55.0	2041.36	2030.96	2016.34	1984.38	1945.27	1939.84	1954.67	1938.08	1879.10	1863.83
57.5	1874.12	1864.35	1855.47	1847.26	1794.34	1751.24	1746.08	1778.43	1748.70	1666.26
60.0	1698.14	1688.30	1666.76	1637.11	1628.15	1595.97	1548.39	1542.04	1572.22	1502.83
62.5	1507.68	1508.98	1479.00	1435.94	1401.96	1394.56	1380.29	1323.35	1317.51	1352.23
65.0	1285.09	1289.41	1282.87	1256.25	1202.24	1167.26	1175.11	1171.91	1122.15	1110.09
67.5	1098.53	1075.34	1046.13	1037.69	1032.81	1000.17	980.59	985.92	977.54	895.86

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CANDELA TABULATION - (Cont.)

70.0	928.14	911.40	864.49	830.94	806.36	813.91	826.06	782.89	753.02	756.91
72.5	729.92	715.68	698.93	682.55	635.72	615.74	620.67	621.88	581.67	550.72
75.0	561.14	534.92	516.59	496.17	478.78	468.92	446.86	422.29	425.76	415.21
77.5	404.96	397.07	383.15	354.67	334.65	322.54	314.05	309.19	271.32	269.40
80.0	231.88	237.67	233.59	231.58	227.38	220.50	206.11	176.53	169.37	162.81
82.5	67.13	82.31	90.77	100.16	102.60	112.53	112.86	108.69	101.12	82.17
85.0	0.00	0.00	0.00	0.00	0.00	13.02	22.86	30.98	34.65	39.07
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3938.53	3939.14	3939.76	3940.39	3941.03	3941.67	3942.31	3941.60	3940.90	3940.20
5.0	3930.89	3932.18	3933.33	3934.78	3936.24	3937.71	3939.18	3937.60	3936.02	3934.45
7.5	3915.34	3917.26	3919.31	3921.48	3923.77	3926.15	3928.62	3926.03	3923.53	3921.13
10.0	3891.75	3894.43	3897.35	3899.75	3903.50	3907.26	3911.03	3907.14	3903.26	3899.40
12.5	3860.27	3863.58	3867.25	3871.28	3875.63	3880.31	3885.28	3880.19	3875.41	3870.93
15.0	3821.80	3825.76	3830.28	3835.33	3840.04	3846.67	3853.31	3846.60	3839.90	3835.10
17.5	3775.46	3780.10	3785.37	3791.42	3798.22	3805.71	3813.83	3805.80	3798.38	3791.64
20.0	3721.18	3723.08	3729.70	3737.54	3744.82	3756.06	3767.33	3757.08	3746.86	3740.31
22.5	3655.11	3649.33	3658.79	3669.83	3682.72	3697.21	3713.02	3700.03	3688.28	3677.97
25.0	3569.94	3563.63	3565.37	3582.11	3601.86	3623.31	3648.33	3627.77	3610.68	3595.14
27.5	3454.83	3444.75	3437.24	3455.81	3482.03	3511.97	3545.21	3517.57	3493.18	3472.46
30.0	3315.39	3299.79	3287.42	3295.87	3326.67	3359.72	3400.77	3365.50	3338.32	3313.48
32.5	3167.86	3149.23	3130.47	3127.85	3158.79	3193.93	3233.55	3198.81	3168.60	3142.69
35.0	3024.12	3007.25	2988.24	2972.95	2996.38	3026.56	3065.99	3031.14	3005.62	2987.01
37.5	2874.97	2876.00	2854.66	2837.65	2850.20	2882.49	2919.26	2886.59	2858.48	2850.62
40.0	2732.78	2745.98	2728.59	2708.98	2711.16	2742.95	2784.73	2747.58	2720.27	2722.11
42.5	2587.89	2601.22	2598.85	2574.26	2564.33	2601.33	2644.12	2606.59	2574.87	2590.26
45.0	2440.11	2452.38	2467.60	2438.77	2415.62	2451.09	2499.21	2456.98	2426.99	2455.91
47.5	2300.91	2300.71	2319.29	2299.98	2273.37	2304.23	2352.44	2310.56	2285.92	2318.80
50.0	2167.68	2144.37	2161.51	2162.78	2129.29	2147.45	2203.66	2156.71	2146.34	2185.29
52.5	2030.13	1990.04	1996.79	2019.28	1981.54	1995.02	2055.10	2007.06	2004.71	2052.02
55.0	1882.86	1840.60	1817.01	1852.97	1820.79	1817.43	1895.36	1832.02	1849.60	1894.54
57.5	1674.50	1672.11	1617.78	1653.98	1641.20	1622.08	1714.23	1631.36	1663.34	1689.43
60.0	1450.15	1485.79	1432.61	1427.89	1435.69	1379.64	1479.03	1391.20	1458.05	1461.12
62.5	1261.88	1250.10	1248.48	1201.72	1244.20	1179.05	1274.66	1188.41	1265.00	1230.74
65.0	1110.53	1023.76	1067.26	991.82	1041.21	975.83	1071.47	983.06	1062.41	1020.60
67.5	907.46	876.47	849.87	840.35	834.19	789.20	856.95	799.16	848.29	847.10
70.0	689.68	732.85	642.85	682.45	629.33	614.87	662.84	627.42	655.50	701.93
72.5	566.63	493.91	493.23	471.39	445.94	465.58	500.30	471.20	458.33	493.34
75.0	387.23	379.88	335.32	313.15	318.70	326.81	348.12	334.31	329.56	321.84
77.5	279.82	226.21	224.92	226.40	198.02	192.45	216.94	203.45	208.60	227.24
80.0	137.35	147.62	111.65	109.41	97.01	86.85	119.17	93.22	99.85	100.83
82.5	77.25	74.44	63.95	51.22	48.21	46.47	55.76	46.19	32.68	22.90
85.0	41.73	37.79	30.96	26.91	23.53	22.46	25.34	6.56	2.67	3.69
87.5	0.00	6.01	13.82	15.63	13.42	9.84	12.23	4.64	5.46	3.74
90.0	0.00	0.00	0.00	0.00	0.00	0.00	3.32	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3939.51	3938.82	3938.15	3937.48	3936.83	3936.19	3935.57	3934.96	3934.38	3933.81

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CANDELA TABULATION - (Cont.)

5.0	3932.89	3931.63	3930.23	3928.88	3927.59	3926.34	3925.16	3924.04	3922.99	3922.01
7.5	3918.84	3916.67	3914.63	3912.72	3910.95	3908.85	3907.61	3906.13	3904.80	3903.61
10.0	3896.87	3893.82	3891.01	3888.44	3886.12	3884.06	3882.28	3880.62	3879.30	3879.30
12.5	3866.79	3863.00	3859.58	3855.46	3853.64	3851.21	3850.73	3851.21	3851.79	3852.54
15.0	3829.97	3825.34	3821.24	3817.69	3816.02	3816.74	3817.70	3818.99	3819.97	3822.17
17.5	3785.60	3780.30	3775.61	3774.32	3775.82	3777.83	3780.14	3782.75	3785.79	3788.83
20.0	3733.10	3726.85	3724.69	3727.31	3730.34	3733.94	3738.12	3742.37	3744.82	3744.72
22.5	3669.25	3661.79	3667.41	3672.39	3678.27	3684.16	3690.31	3690.29	3690.40	3691.61
25.0	3582.36	3583.64	3592.27	3601.36	3611.48	3620.97	3619.73	3621.49	3623.88	3628.59
27.5	3459.24	3471.43	3485.75	3502.32	3517.69	3514.93	3515.71	3520.24	3527.97	3526.37
30.0	3311.40	3330.32	3352.14	3376.11	3375.35	3374.13	3374.85	3383.57	3389.72	3390.81
32.5	3151.42	3177.47	3203.95	3212.78	3209.71	3210.67	3216.54	3228.73	3240.83	3249.59
35.0	3007.81	3032.52	3055.17	3049.68	3047.49	3047.54	3060.56	3076.87	3094.90	3096.28
37.5	2873.13	2900.01	2903.87	2899.85	2899.78	2909.02	2921.75	2937.34	2936.78	2929.31
40.0	2745.57	2767.16	2758.39	2754.43	2761.08	2775.89	2792.75	2788.23	2777.31	2768.89
42.5	2619.86	2626.87	2618.41	2617.19	2630.00	2647.08	2644.79	2633.31	2624.88	2639.80
45.0	2490.00	2480.36	2473.12	2483.79	2501.75	2503.39	2488.24	2478.44	2501.63	2528.74
47.5	2344.36	2331.77	2332.06	2350.29	2362.22	2339.19	2325.14	2355.58	2388.49	2409.98
50.0	2190.77	2180.26	2193.91	2215.05	2200.38	2182.44	2201.57	2237.05	2251.31	2235.21
52.5	2040.21	2036.49	2058.37	2054.94	2031.63	2048.37	2085.83	2091.93	2069.70	2055.28
55.0	1872.88	1887.36	1912.50	1879.58	1880.87	1924.55	1927.96	1903.34	1896.92	1921.26
57.5	1662.88	1715.46	1703.42	1680.50	1745.04	1761.66	1717.33	1713.57	1748.80	1784.88
60.0	1461.49	1498.20	1448.41	1503.83	1564.30	1527.49	1521.32	1548.37	1575.61	1581.07
62.5	1272.96	1258.57	1245.01	1320.71	1287.22	1303.79	1355.50	1353.85	1339.20	1367.00
65.0	1078.03	1019.73	1094.72	1074.47	1061.85	1129.39	1141.72	1134.77	1155.10	1185.85
67.5	840.55	861.49	886.93	869.84	913.33	900.28	906.35	961.90	994.08	984.47
70.0	643.22	692.63	654.98	734.78	725.48	720.50	749.12	764.24	765.79	791.43
72.5	515.66	485.06	530.94	521.64	555.55	582.18	558.57	555.84	588.84	642.73
75.0	351.37	366.62	343.60	381.31	399.02	390.05	407.73	422.40	435.31	458.13
77.5	224.52	215.80	245.94	235.19	245.94	272.33	283.49	284.95	299.38	321.32
80.0	100.63	138.29	125.95	140.54	147.74	159.60	182.59	191.92	200.43	203.73
82.5	41.18	52.89	63.14	75.86	88.28	97.49	99.13	96.47	84.33	84.11
85.0	8.17	19.26	30.22	31.38	30.82	27.89	20.08	11.33	0.00	0.00
87.5	2.59	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3933.27	3932.74	3932.20	3931.70	3931.22	3930.75	3930.32	3929.91	3929.52	3929.17
5.0	3921.10	3920.15	3919.32	3918.48	3917.72	3917.03	3916.42	3915.89	3915.30	3914.75
7.5	3902.59	3901.40	3900.72	3900.07	3899.80	3899.62	3899.30	3899.00	3898.78	3898.64
10.0	3879.46	3879.10	3879.80	3880.06	3880.45	3880.64	3880.89	3881.25	3881.38	3881.53
12.5	3853.51	3854.58	3855.64	3856.91	3858.14	3859.32	3860.65	3861.46	3861.89	3862.07
15.0	3824.09	3826.20	3828.39	3829.70	3830.00	3830.80	3831.70	3833.00	3834.29	3835.95
17.5	3790.68	3790.78	3791.26	3792.25	3793.59	3795.34	3797.50	3799.87	3801.95	3805.43
20.0	3745.30	3746.52	3748.34	3750.59	3753.42	3756.00	3748.44	3742.11	3736.81	3732.55
22.5	3693.57	3696.33	3698.95	3690.52	3680.97	3672.81	3666.31	3660.83	3656.62	3653.69
25.0	3633.09	3620.45	3608.40	3597.99	3589.34	3582.48	3577.32	3569.80	3564.92	3560.27
27.5	3522.38	3514.03	3505.20	3494.38	3487.54	3475.14	3465.85	3459.53	3455.86	3454.50
30.0	3395.26	3394.79	3387.05	3371.41	3358.16	3348.05	3341.28	3337.71	3340.61	3349.37
32.5	3260.22	3247.57	3235.99	3225.41	3216.12	3211.31	3218.25	3227.04	3236.23	3250.51
35.0	3090.44	3082.00	3074.58	3072.98	3080.29	3091.68	3101.54	3114.29	3129.16	3131.70
37.5	2919.09	2917.60	2932.60	2947.09	2959.96	2971.73	2974.90	2972.77	2973.36	2975.05
40.0	2775.37	2795.49	2812.89	2828.26	2829.47	2823.12	2819.23	2817.18	2816.71	2821.94

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CANDELA TABULATION - (Cont.)

42.5	2661.17	2683.15	2692.29	2680.72	2671.64	2666.10	2664.47	2675.60	2686.27	2696.53
45.0	2554.29	2542.70	2530.78	2522.51	2520.33	2529.39	2540.51	2552.81	2562.93	2573.81
47.5	2394.06	2380.80	2371.23	2380.79	2396.46	2408.53	2419.71	2422.57	2425.88	2429.62
50.0	2223.87	2230.98	2243.84	2260.79	2274.17	2274.03	2274.14	2275.84	2280.01	2284.99
52.5	2079.50	2104.02	2122.66	2122.01	2122.06	2124.47	2125.78	2125.28	2125.25	2128.31
55.0	1948.45	1960.42	1963.92	1967.68	1968.09	1964.56	1963.10	1961.10	1966.30	1969.12
57.5	1783.93	1788.75	1795.63	1797.68	1796.72	1796.57	1794.74	1787.11	1781.87	1784.30
60.0	1600.61	1610.41	1615.98	1619.99	1613.26	1603.27	1597.70	1593.44	1594.04	1606.02
62.5	1407.60	1426.80	1424.35	1411.90	1400.45	1395.62	1406.68	1417.42	1429.98	1447.38
65.0	1207.85	1200.13	1192.91	1199.20	1208.14	1219.60	1238.41	1252.77	1263.30	1271.75
67.5	979.14	984.31	997.10	1024.46	1035.77	1041.26	1053.33	1062.82	1068.67	1073.48
70.0	807.42	815.35	816.76	840.17	851.14	851.28	856.86	871.38	885.30	891.54
72.5	653.44	647.68	641.36	645.85	673.27	682.88	691.26	706.39	719.69	722.32
75.0	480.52	489.92	494.18	504.38	522.14	528.57	528.60	535.12	542.43	545.15
77.5	353.11	355.37	351.82	353.03	357.30	357.73	352.85	354.26	358.39	361.23
80.0	212.16	206.11	196.20	192.83	191.32	182.59	170.99	159.35	148.34	136.96
82.5	79.32	71.08	56.17	41.57	25.72	6.47	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3928.84	3928.54	3928.26	3928.01	3927.77	3927.56	3927.38	3927.23	3927.11	3927.01
5.0	3914.27	3913.86	3913.52	3913.13	3912.83	3912.54	3912.32	3912.15	3911.52	3911.56
7.5	3898.35	3898.11	3897.97	3897.78	3897.53	3897.37	3897.19	3896.99	3896.82	3896.72
10.0	3881.71	3881.75	3881.84	3881.88	3881.86	3881.93	3881.81	3881.79	3881.66	3881.01
12.5	3862.39	3862.69	3863.00	3863.33	3863.64	3863.97	3864.32	3864.66	3865.05	3865.32
15.0	3837.40	3839.06	3840.49	3841.89	3843.29	3844.37	3845.51	3846.53	3847.56	3848.51
17.5	3803.35	3799.85	3796.72	3793.81	3790.73	3788.86	3786.67	3784.88	3783.51	3782.45
20.0	3729.19	3726.56	3724.32	3722.36	3720.60	3718.48	3717.53	3716.02	3714.78	3713.80
22.5	3651.68	3649.35	3646.81	3645.07	3643.87	3643.05	3642.60	3642.40	3642.35	3642.33
25.0	3557.59	3556.53	3556.66	3557.77	3559.63	3561.75	3563.89	3566.09	3568.25	3569.95
27.5	3455.11	3457.39	3463.06	3470.36	3477.44	3483.91	3489.70	3494.43	3498.33	3500.94
30.0	3359.06	3369.36	3380.08	3390.74	3400.59	3409.66	3417.42	3423.99	3429.39	3432.55
32.5	3264.51	3279.16	3293.95	3294.71	3294.98	3295.36	3295.41	3294.96	3294.92	3294.93
35.0	3134.91	3136.80	3138.95	3141.01	3143.31	3144.26	3146.45	3147.44	3148.42	3149.93
37.5	2977.25	2980.48	2981.92	2990.27	2997.34	3002.48	3005.86	3007.64	3009.30	3010.59
40.0	2832.65	2842.38	2851.35	2858.83	2865.07	2869.57	2871.40	2871.79	2872.11	2872.62
42.5	2706.71	2715.76	2723.74	2727.97	2730.23	2731.72	2731.82	2730.19	2729.00	2729.31
45.0	2576.42	2578.66	2580.88	2582.95	2584.71	2586.75	2587.65	2586.75	2584.85	2585.04
47.5	2433.29	2434.15	2437.49	2438.57	2439.35	2440.57	2440.90	2439.38	2437.15	2437.12
50.0	2286.35	2286.79	2287.39	2289.50	2292.00	2293.55	2292.66	2290.62	2288.64	2288.89
52.5	2131.16	2132.88	2135.34	2137.79	2139.65	2141.37	2139.84	2136.72	2134.41	2135.09
55.0	1967.76	1965.91	1965.58	1969.29	1975.32	1981.37	1983.35	1980.65	1979.94	1981.24
57.5	1788.12	1790.27	1793.46	1802.48	1815.57	1827.15	1831.88	1829.76	1830.07	1832.26
60.0	1621.23	1631.77	1639.30	1651.35	1666.86	1680.59	1684.48	1680.67	1681.29	1683.88
62.5	1465.81	1478.20	1483.97	1488.07	1496.04	1502.68	1504.73	1498.37	1492.99	1491.54
65.0	1279.99	1286.79	1289.84	1288.28	1291.98	1297.81	1306.03	1305.74	1297.96	1295.31
67.5	1079.02	1084.97	1098.86	1095.75	1095.72	1101.68	1114.03	1115.81	1106.70	1102.42
70.0	896.84	908.41	920.81	912.61	908.81	911.88	925.60	927.40	915.99	910.38
72.5	721.58	727.43	740.17	730.79	718.43	716.01	726.88	735.63	725.00	716.92
75.0	534.74	534.02	547.21	548.36	526.06	518.27	524.58	542.10	534.52	523.49
77.5	342.19	329.18	329.45	327.64	301.25	287.31	282.82	287.41	278.51	267.76

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CANDELA TABULATION - (Cont.)

80.0	118.33	100.91	87.98	75.36	57.76	44.16	33.24	24.40	15.67	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3926.95	3926.91	3926.91	3926.92	3926.97	3927.04	3927.15	3927.28	3927.44	3927.63
5.0	3911.60	3911.64	3911.68	3911.66	3911.65	3911.63	3911.62	3912.33	3912.55	3912.85
7.5	3896.52	3896.41	3896.38	3896.28	3896.27	3896.34	3896.36	3896.47	3896.68	3896.84
10.0	3881.17	3881.12	3881.08	3880.72	3880.37	3879.79	3880.08	3879.86	3879.57	3879.43
12.5	3865.64	3865.72	3865.88	3865.69	3865.68	3865.14	3864.71	3864.07	3863.35	3862.45
15.0	3849.14	3850.07	3850.68	3850.60	3850.18	3850.07	3849.22	3848.26	3847.06	3845.52
17.5	3781.69	3781.20	3780.92	3780.59	3780.55	3780.86	3781.57	3782.46	3783.85	3785.84
20.0	3711.04	3711.61	3711.16	3709.51	3706.97	3708.11	3707.46	3707.10	3707.77	3707.33
22.5	3642.20	3642.29	3641.94	3641.08	3639.98	3638.67	3637.15	3635.49	3633.52	3631.20
25.0	3568.84	3571.68	3572.71	3571.75	3568.74	3569.33	3567.12	3564.41	3560.95	3556.75
27.5	3502.48	3503.12	3502.53	3500.51	3497.63	3494.03	3489.74	3484.61	3478.78	3472.77
30.0	3431.46	3433.51	3432.35	3427.91	3420.80	3417.46	3409.94	3400.25	3389.86	3379.55
32.5	3293.83	3292.80	3291.63	3289.40	3287.13	3285.11	3281.41	3276.46	3270.61	3263.67
35.0	3150.66	3149.14	3150.90	3148.32	3148.71	3147.64	3145.93	3142.37	3137.37	3131.40
37.5	3010.67	3009.83	3008.87	3006.75	3005.70	3004.38	3003.50	2999.81	2997.56	2992.04
40.0	2871.01	2867.71	2866.83	2862.14	2861.95	2860.47	2857.65	2854.57	2849.79	2844.23
42.5	2728.66	2727.27	2726.04	2723.67	2722.62	2722.77	2720.55	2717.56	2713.30	2704.76
45.0	2586.01	2583.67	2585.25	2582.25	2583.82	2585.49	2586.50	2585.40	2581.70	2576.27
47.5	2437.98	2437.24	2435.66	2433.22	2432.95	2434.33	2435.43	2435.99	2434.75	2433.85
50.0	2289.79	2287.67	2286.07	2280.90	2281.37	2281.33	2281.05	2278.96	2275.37	2272.19
52.5	2137.53	2139.46	2138.28	2134.52	2132.90	2132.62	2132.28	2129.22	2123.39	2116.52
55.0	1984.98	1987.91	1990.48	1985.15	1984.87	1984.50	1984.86	1982.59	1976.42	1968.35
57.5	1837.02	1841.87	1840.27	1835.55	1832.66	1832.46	1832.05	1828.38	1821.20	1812.69
60.0	1683.70	1692.98	1690.07	1683.08	1674.93	1679.94	1677.89	1671.20	1660.56	1651.07
62.5	1494.69	1500.49	1497.55	1491.22	1488.98	1490.59	1492.86	1489.59	1480.02	1474.14
65.0	1291.63	1304.50	1305.03	1295.98	1289.23	1298.22	1303.00	1298.68	1290.49	1286.79
67.5	1108.02	1113.96	1107.96	1101.49	1099.23	1104.79	1106.38	1099.87	1094.77	1093.82
70.0	912.78	920.64	910.88	904.00	897.29	911.40	908.99	898.55	897.51	897.16
72.5	720.76	728.97	719.90	711.06	708.95	716.76	717.63	706.46	704.11	706.04
75.0	518.81	534.81	528.92	515.73	510.85	522.82	527.24	517.20	513.73	517.89
77.5	263.97	268.61	264.46	259.05	260.05	267.54	274.10	273.46	278.90	288.58
80.0	0.00	0.00	0.00	0.00	0.00	0.00	15.40	23.21	32.90	44.28
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3927.85	3928.09	3928.36	3928.63	3928.93	3929.26	3929.62	3930.00	3930.40	3930.83
5.0	3913.21	3913.62	3914.05	3914.49	3914.99	3915.54	3916.15	3916.85	3917.37	3918.01
7.5	3897.08	3897.43	3897.77	3898.12	3898.62	3899.29	3899.72	3900.36	3901.15	3902.25
10.0	3879.04	3878.83	3878.64	3878.47	3878.53	3878.38	3878.45	3879.10	3878.79	3879.17
12.5	3861.45	3860.36	3859.16	3857.85	3856.41	3854.77	3853.15	3851.22	3850.93	3850.38

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CANDELA TABULATION - (Cont.)

15.0	3844.34	3842.11	3840.11	3837.90	3835.30	3832.72	3829.83	3827.76	3824.22	3822.28
17.5	3788.45	3791.53	3795.41	3800.12	3805.59	3809.23	3805.36	3801.23	3797.11	3792.70
20.0	3707.85	3709.12	3711.31	3715.62	3718.84	3724.27	3731.13	3739.81	3749.35	3760.94
22.5	3628.83	3626.79	3625.22	3624.06	3625.46	3628.15	3633.03	3639.89	3648.89	3660.18
25.0	3552.35	3548.18	3544.22	3540.31	3536.85	3534.38	3533.94	3533.94	3538.94	3549.03
27.5	3468.56	3462.06	3457.60	3452.25	3445.61	3440.28	3436.68	3434.83	3434.78	3436.13
30.0	3369.18	3359.34	3348.69	3340.48	3334.56	3331.36	3331.00	3329.48	3326.46	3324.35
32.5	3254.86	3244.59	3233.55	3220.41	3209.95	3202.42	3198.66	3201.55	3202.36	3207.56
35.0	3122.76	3112.72	3102.89	3091.18	3079.91	3069.08	3061.43	3060.06	3060.07	3061.21
37.5	2987.17	2981.12	2974.30	2963.93	2953.06	2945.51	2935.02	2926.73	2919.18	2914.19
40.0	2838.32	2832.83	2827.98	2823.40	2819.31	2817.31	2811.91	2803.24	2792.56	2785.42
42.5	2696.72	2688.43	2681.90	2677.19	2673.58	2671.21	2669.24	2668.38	2669.85	2662.67
45.0	2570.33	2563.84	2556.56	2548.89	2537.86	2526.55	2521.94	2520.73	2522.22	2522.07
47.5	2434.81	2438.23	2437.13	2428.99	2419.02	2407.63	2396.41	2383.50	2369.56	2368.16
50.0	2271.13	2274.07	2275.29	2277.01	2280.43	2287.68	2281.41	2265.03	2248.00	2232.59
52.5	2111.68	2108.95	2105.53	2101.73	2099.43	2102.30	2111.82	2119.54	2128.85	2115.04
55.0	1962.26	1959.21	1952.56	1939.40	1925.63	1917.00	1918.50	1926.53	1937.43	1955.61
57.5	1808.76	1807.75	1801.91	1783.51	1765.13	1753.23	1748.07	1746.85	1745.62	1755.99
60.0	1646.46	1641.09	1625.80	1605.04	1589.85	1584.32	1585.61	1583.41	1577.91	1574.51
62.5	1474.07	1468.76	1445.78	1417.94	1401.38	1398.33	1401.76	1399.88	1399.69	1404.74
65.0	1287.86	1284.86	1264.29	1237.00	1220.63	1218.35	1215.34	1201.68	1200.93	1208.74
67.5	1097.11	1098.13	1081.78	1057.21	1045.74	1045.96	1045.76	1028.19	1021.39	1017.87
70.0	902.89	900.50	877.62	861.45	858.75	868.03	869.19	858.50	858.69	856.68
72.5	712.59	706.54	682.14	669.50	671.56	684.98	676.43	673.07	681.18	684.15
75.0	525.05	525.77	505.94	492.57	496.74	510.77	500.56	498.83	504.89	502.89
77.5	301.69	311.55	304.46	304.08	315.06	338.52	335.11	334.03	344.07	344.95
80.0	57.83	71.40	81.26	93.32	108.88	129.11	138.17	151.90	168.49	179.85
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.41
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3931.28	3931.75	3932.25	3932.76	3933.31	3933.80	3934.33	3934.89	3935.47	3936.06
5.0	3918.70	3919.45	3920.24	3921.08	3922.12	3922.65	3923.50	3924.39	3925.33	3926.32
7.5	3902.84	3903.83	3904.67	3905.46	3906.14	3906.85	3907.65	3908.54	3909.53	3910.61
10.0	3880.13	3880.29	3881.10	3882.19	3883.34	3884.67	3886.27	3886.97	3888.11	3888.30
12.5	3850.23	3850.29	3850.56	3851.22	3852.05	3853.18	3854.73	3857.38	3858.71	3860.53
15.0	3818.57	3815.91	3814.04	3813.95	3814.17	3814.84	3816.12	3817.71	3819.85	3822.59
17.5	3788.25	3783.80	3779.38	3775.17	3771.10	3769.63	3771.95	3771.56	3773.56	3776.23
20.0	3755.42	3749.09	3742.98	3736.91	3731.00	3725.35	3719.70	3717.59	3720.24	3720.70
22.5	3673.52	3689.25	3704.54	3695.63	3686.68	3677.15	3666.56	3655.91	3644.55	3646.19
25.0	3561.68	3576.91	3594.24	3612.90	3632.23	3615.33	3597.02	3580.23	3561.18	3544.62
27.5	3439.92	3447.32	3459.77	3473.68	3489.23	3506.31	3506.44	3480.28	3454.41	3429.53
30.0	3321.83	3317.56	3311.45	3314.92	3325.93	3338.57	3352.20	3364.22	3330.52	3298.06
32.5	3202.35	3192.80	3181.73	3169.39	3155.67	3162.40	3171.62	3182.67	3195.73	3162.65
35.0	3063.26	3066.61	3059.30	3043.13	3021.92	3000.82	2997.57	3009.47	3024.02	3041.78
37.5	2916.13	2918.03	2918.60	2918.13	2896.53	2877.04	2860.01	2853.56	2868.17	2886.21
40.0	2780.68	2774.35	2772.32	2771.22	2772.15	2763.19	2743.45	2725.53	2718.69	2736.77
42.5	2652.99	2643.35	2636.47	2633.19	2632.18	2633.39	2631.35	2610.74	2591.29	2585.81
45.0	2524.82	2517.82	2509.41	2500.94	2493.19	2492.87	2495.76	2498.02	2473.68	2452.04
47.5	2370.51	2376.91	2385.19	2374.20	2363.14	2353.84	2351.94	2355.50	2359.27	2333.12
50.0	2221.26	2223.59	2227.24	2233.47	2233.95	2220.78	2211.06	2208.34	2212.55	2215.18

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CANDELA TABULATION - (Cont.)

52.5	2103.47	2086.13	2063.22	2068.02	2075.01	2088.32	2072.56	2057.00	2051.96	2059.39
55.0	1979.14	1965.85	1939.95	1914.73	1900.27	1904.14	1915.80	1904.51	1891.41	1894.22
57.5	1772.03	1788.73	1807.83	1787.23	1748.87	1705.06	1707.26	1727.45	1733.72	1723.76
60.0	1572.80	1575.91	1590.53	1603.92	1605.56	1552.93	1512.33	1513.75	1544.54	1542.32
62.5	1402.19	1396.27	1383.09	1369.72	1370.78	1373.48	1355.98	1321.54	1302.95	1328.41
65.0	1215.48	1221.21	1210.08	1186.74	1155.10	1144.36	1154.49	1160.02	1113.61	1089.51
67.5	1011.18	1010.98	1015.79	1012.17	993.89	966.06	933.20	935.52	956.25	939.01
70.0	846.09	830.80	817.47	803.52	800.53	799.82	777.67	747.07	746.71	774.86
72.5	682.29	679.45	667.93	644.96	620.81	590.40	583.44	592.12	586.65	550.85
75.0	503.34	505.40	502.38	499.19	491.33	459.71	423.76	398.72	418.02	422.67
77.5	343.60	345.75	339.23	335.19	333.71	323.54	314.77	303.51	278.68	244.54
80.0	188.40	198.54	199.97	204.95	203.06	196.60	191.34	187.62	185.92	177.87
82.5	25.43	43.19	58.21	72.43	83.76	91.44	97.48	97.98	95.68	89.59
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.76	22.12	29.05
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3936.66	3937.28	3937.91	3938.55	3939.20	3939.86	3940.53	3941.20	3941.88	3941.26
5.0	3927.35	3928.43	3929.55	3930.71	3931.90	3933.13	3934.40	3935.69	3937.02	3935.80
7.5	3912.03	3912.85	3914.08	3915.42	3916.86	3918.42	3920.07	3921.83	3923.70	3921.96
10.0	3889.15	3890.18	3891.40	3892.80	3894.38	3896.15	3898.09	3900.23	3902.54	3900.39
12.5	3861.03	3861.79	3863.57	3863.89	3865.34	3867.09	3869.15	3871.52	3874.19	3871.74
15.0	3826.92	3827.17	3827.53	3828.28	3829.44	3831.01	3833.01	3835.45	3838.33	3835.79
17.5	3779.53	3783.61	3786.09	3787.45	3786.62	3787.69	3789.36	3791.65	3794.59	3791.82
20.0	3723.90	3729.27	3733.74	3735.96	3735.63	3736.20	3737.66	3740.01	3743.23	3739.02
22.5	3651.64	3653.73	3660.94	3670.59	3670.59	3670.19	3671.17	3673.56	3677.40	3671.14
25.0	3544.24	3549.85	3563.12	3570.14	3577.89	3573.38	3570.81	3570.35	3572.18	3566.61
27.5	3405.83	3408.94	3417.65	3430.53	3450.06	3441.10	3434.05	3430.17	3429.64	3425.49
30.0	3269.81	3245.14	3254.57	3268.14	3285.28	3288.59	3277.05	3269.28	3265.52	3264.86
32.5	3131.39	3103.82	3094.06	3106.45	3121.71	3135.10	3121.84	3112.61	3107.43	3108.48
35.0	3009.84	2980.69	2954.88	2963.14	2975.28	2993.74	2984.60	2974.75	2968.93	2970.73
37.5	2898.09	2866.92	2839.42	2824.18	2838.41	2856.88	2854.97	2842.08	2833.53	2837.78
40.0	2759.02	2757.05	2723.02	2692.10	2700.15	2718.98	2725.63	2710.91	2700.89	2706.87
42.5	2606.67	2632.05	2607.94	2573.91	2563.14	2585.31	2598.23	2580.45	2567.74	2575.76
45.0	2454.41	2479.74	2498.54	2454.91	2422.24	2442.23	2467.89	2445.92	2429.79	2440.40
47.5	2307.77	2322.75	2354.27	2337.25	2293.46	2297.86	2325.15	2308.26	2288.08	2301.63
50.0	2183.86	2159.92	2191.70	2212.60	2162.08	2143.94	2174.56	2165.53	2141.68	2159.41
52.5	2053.51	2019.13	2019.64	2056.09	2024.82	1982.81	2016.68	2017.40	1990.29	2010.82
55.0	1905.99	1884.30	1839.21	1871.82	1888.25	1830.67	1852.94	1864.16	1829.96	1853.17
57.5	1716.72	1730.83	1680.69	1665.48	1733.95	1655.95	1651.50	1680.51	1623.38	1663.37
60.0	1494.32	1495.36	1500.87	1436.71	1482.49	1456.14	1414.63	1459.33	1400.91	1448.71
62.5	1306.19	1266.19	1294.81	1260.17	1237.25	1271.86	1205.69	1266.35	1208.81	1257.98
65.0	1120.78	1103.77	1077.54	1100.82	1025.29	1079.53	1009.21	1068.85	1012.66	1053.46
67.5	899.07	924.69	898.21	893.98	877.44	871.03	851.03	869.41	811.62	851.66
70.0	744.99	681.38	729.72	699.28	729.53	650.00	687.93	671.57	641.37	654.11
72.5	546.25	527.15	502.20	550.58	507.09	506.02	533.96	489.36	472.33	468.65
75.0	373.05	359.88	368.01	352.44	365.78	366.54	328.88	313.56	313.59	302.82
77.5	255.51	247.03	228.62	243.31	225.20	199.30	197.99	192.87	191.34	187.58
80.0	153.45	129.29	147.98	127.11	136.06	125.65	121.33	116.75	93.43	111.68
82.5	84.56	82.63	71.79	62.02	58.54	60.73	56.51	50.27	43.37	48.63
85.0	34.13	35.16	31.70	27.18	15.02	13.94	8.65	19.21	22.35	26.68
87.5	0.00	0.00	0.00	3.33	4.36	5.41	6.36	6.75	9.73	14.40

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CANDELA TABULATION - (Cont.)

90.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 5.09 0.00

**Vert.
Angles**

Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3940.65	3940.04	3939.44	3938.85	3938.26	3937.69	3937.13	3936.58	3936.04	3935.52
5.0	3934.60	3933.44	3932.31	3931.22	3930.16	3929.14	3928.17	3927.24	3926.36	3925.52
7.5	3920.33	3918.81	3917.38	3916.06	3914.85	3913.75	3913.05	3911.76	3910.82	3909.96
10.0	3898.43	3896.65	3895.05	3893.63	3892.40	3891.36	3890.49	3889.81	3889.80	3888.82
12.5	3869.59	3867.74	3866.19	3864.93	3864.78	3863.19	3862.60	3862.27	3860.63	3859.44
15.0	3833.70	3832.03	3830.79	3829.95	3829.51	3829.44	3829.48	3825.44	3822.95	3821.03
17.5	3789.72	3788.31	3787.60	3789.00	3788.00	3785.71	3781.86	3779.08	3776.95	3775.42
20.0	3735.74	3733.47	3732.29	3732.27	3729.56	3724.53	3718.75	3715.75	3716.31	3714.55
22.5	3666.37	3663.14	3661.45	3659.53	3647.69	3638.56	3635.11	3628.49	3627.57	3640.21
25.0	3563.41	3562.48	3563.70	3552.42	3542.14	3525.58	3517.42	3515.97	3532.28	3551.80
27.5	3424.69	3427.05	3431.35	3407.44	3390.11	3376.84	3370.05	3390.62	3414.09	3439.86
30.0	3268.15	3275.08	3267.34	3245.94	3227.92	3213.58	3231.74	3254.00	3281.00	3311.36
32.5	3113.52	3122.51	3105.20	3085.92	3069.30	3073.99	3095.70	3120.46	3148.98	3143.91
35.0	2976.55	2981.65	2959.24	2943.27	2931.01	2952.06	2975.70	3001.56	2993.81	2989.44
37.5	2846.34	2844.01	2821.45	2802.99	2813.69	2837.06	2864.23	2860.47	2852.92	2848.77
40.0	2717.48	2706.74	2684.04	2672.01	2697.44	2725.89	2731.36	2720.35	2713.75	2732.53
42.5	2588.91	2571.32	2544.59	2551.37	2582.04	2605.32	2589.94	2579.78	2596.15	2627.54
45.0	2456.85	2425.58	2400.29	2428.70	2468.41	2457.59	2443.47	2452.90	2487.34	2523.45
47.5	2311.95	2278.11	2267.43	2305.91	2324.09	2305.41	2303.03	2340.48	2378.90	2387.13
50.0	2162.36	2126.07	2137.02	2178.60	2166.08	2146.92	2185.28	2231.12	2240.39	2247.00
52.5	2003.24	1962.64	1999.75	2029.53	2004.16	2015.28	2061.93	2081.11	2087.37	2104.47
55.0	1828.03	1795.27	1854.38	1845.87	1825.59	1885.84	1919.84	1919.92	1930.67	1957.38
57.5	1620.07	1605.92	1670.36	1625.61	1664.03	1734.57	1732.68	1750.60	1768.32	1775.82
60.0	1395.13	1421.40	1441.12	1413.52	1492.19	1508.40	1519.66	1568.16	1576.93	1549.46
62.5	1190.27	1244.99	1215.74	1252.16	1298.48	1287.90	1337.64	1360.38	1335.95	1358.13
65.0	976.56	1047.95	1000.19	1093.00	1080.65	1118.71	1141.64	1119.02	1154.10	1199.63
67.5	813.43	824.63	840.46	872.17	893.33	936.69	913.91	955.01	997.45	977.52
70.0	662.90	632.22	704.86	681.27	726.06	692.82	764.91	786.64	761.32	780.93
72.5	485.61	486.62	515.75	548.58	504.66	548.61	571.04	572.98	601.49	617.27
75.0	311.63	353.37	370.52	364.50	377.43	372.53	393.13	443.73	434.04	416.43
77.5	191.12	196.00	225.54	255.49	237.83	252.06	262.84	261.44	293.74	314.06
80.0	117.47	123.42	134.61	130.48	148.91	133.10	153.70	185.51	193.74	194.06
82.5	55.91	63.73	62.20	62.04	68.96	83.26	84.37	89.92	94.52	98.77
85.0	29.69	30.57	29.22	32.80	33.57	33.87	32.32	29.28	20.45	11.80
87.5	13.07	12.85	13.03	5.60	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3935.02	3934.53	3934.09	3933.60	3933.13	3932.68	3932.25	3931.85	3931.46	3931.09
5.0	3924.73	3923.98	3923.56	3922.62	3921.88	3921.18	3920.54	3919.94	3919.40	3918.98
7.5	3909.20	3908.54	3907.97	3907.43	3906.79	3906.70	3905.24	3904.79	3903.81	3903.16
10.0	3888.60	3886.81	3885.61	3884.61	3883.66	3882.97	3882.93	3882.11	3881.87	3882.32
12.5	3856.99	3855.63	3854.66	3853.99	3853.54	3853.50	3853.66	3854.01	3854.76	3855.38
15.0	3819.66	3818.51	3817.94	3817.76	3817.86	3819.65	3822.42	3826.28	3828.53	3832.42
17.5	3776.50	3774.53	3776.34	3780.61	3784.83	3789.14	3793.35	3797.61	3801.93	3806.30
20.0	3718.99	3727.54	3735.46	3742.85	3749.63	3756.05	3762.47	3768.44	3761.08	3756.26
22.5	3654.22	3668.90	3683.16	3696.80	3710.76	3701.33	3692.43	3685.42	3680.07	3676.80

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CANDELA TABULATION - (Cont.)

25.0	3570.40	3591.85	3613.58	3606.08	3599.42	3593.89	3589.68	3587.13	3586.04	3588.86
27.5	3466.59	3474.21	3469.30	3465.97	3464.06	3463.77	3470.33	3481.36	3494.02	3505.67
30.0	3311.06	3310.46	3311.22	3313.19	3322.76	3342.26	3360.62	3378.89	3397.03	3414.73
32.5	3143.33	3144.77	3150.52	3177.55	3205.25	3231.18	3254.26	3273.08	3281.70	3295.70
35.0	2988.24	3002.26	3033.10	3065.46	3096.18	3119.09	3129.46	3139.97	3150.43	3161.85
37.5	2865.40	2893.30	2924.64	2958.41	2969.05	2981.30	2993.81	3006.95	3022.66	3035.87
40.0	2761.75	2792.19	2812.22	2823.41	2837.54	2852.93	2868.23	2881.14	2897.57	2915.44
42.5	2660.96	2674.58	2684.32	2696.42	2710.52	2727.98	2746.05	2761.65	2780.06	2782.42
45.0	2532.85	2542.58	2556.20	2572.25	2588.87	2607.20	2624.37	2627.61	2632.01	2635.38
47.5	2395.33	2409.05	2428.47	2449.14	2470.22	2468.47	2472.21	2479.11	2486.85	2503.13
50.0	2258.92	2278.08	2301.64	2310.57	2312.31	2315.57	2322.95	2348.53	2372.98	2393.11
52.5	2126.84	2148.56	2143.17	2144.56	2151.08	2181.91	2209.29	2237.14	2264.12	2254.31
55.0	1979.85	1974.45	1973.52	1993.21	2029.60	2066.89	2087.61	2072.30	2063.29	2057.35
57.5	1770.68	1783.66	1834.11	1871.80	1900.05	1884.86	1871.87	1862.44	1860.94	1871.83
60.0	1561.77	1634.67	1703.19	1692.47	1675.19	1661.45	1662.61	1675.42	1689.79	1703.60
62.5	1397.72	1442.01	1451.23	1449.08	1463.39	1476.33	1484.89	1499.03	1507.22	1515.06
65.0	1197.75	1190.91	1212.18	1250.65	1280.80	1296.66	1291.88	1288.17	1295.14	1311.15
67.5	976.78	1016.69	1045.53	1064.61	1064.15	1072.45	1082.08	1087.97	1103.23	1128.66
70.0	821.76	854.31	856.98	853.94	852.46	875.85	908.53	919.29	932.38	950.35
72.5	618.58	636.74	677.78	691.47	700.41	720.92	736.42	738.79	738.89	748.43
75.0	445.75	492.92	536.69	535.35	532.80	534.15	546.08	550.19	551.70	561.59
77.5	326.64	340.32	357.50	362.43	364.29	369.98	378.27	383.20	383.68	390.88
80.0	191.83	199.82	211.82	217.59	217.83	218.07	214.62	203.21	189.97	178.99
82.5	90.49	89.08	84.85	76.54	62.71	47.11	28.90	7.24	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3930.75	3930.43	3930.13	3929.86	3929.63	3929.38	3929.16	3928.97	3928.80	3928.65
5.0	3918.36	3917.82	3917.34	3916.90	3916.53	3916.16	3915.80	3915.49	3915.23	3915.06
7.5	3902.66	3902.37	3901.83	3901.47	3901.25	3901.04	3900.79	3900.66	3900.60	3900.46
10.0	3881.84	3881.96	3882.30	3882.45	3882.82	3883.23	3883.64	3884.23	3884.56	3885.04
12.5	3857.20	3858.97	3860.77	3862.46	3864.08	3865.59	3867.01	3868.32	3869.53	3870.50
15.0	3834.69	3837.75	3840.46	3843.23	3845.77	3848.15	3850.85	3852.42	3854.38	3855.98
17.5	3810.83	3815.07	3814.28	3812.38	3810.98	3810.22	3809.99	3809.98	3810.34	3811.01
20.0	3752.34	3750.15	3749.24	3750.47	3750.17	3751.54	3753.29	3755.31	3758.14	3759.70
22.5	3675.44	3675.75	3677.79	3680.85	3686.77	3692.85	3698.50	3703.60	3708.29	3712.61
25.0	3596.08	3603.10	3611.39	3619.88	3628.74	3637.86	3646.39	3653.78	3660.32	3666.17
27.5	3516.83	3528.59	3541.34	3554.29	3564.86	3574.59	3586.53	3594.79	3603.38	3611.20
30.0	3427.44	3436.64	3448.25	3462.22	3477.71	3494.37	3509.32	3525.10	3539.75	3552.21
32.5	3305.77	3321.36	3339.00	3359.17	3381.91	3397.33	3409.59	3420.19	3429.50	3435.58
35.0	3176.59	3195.76	3215.36	3233.25	3251.00	3265.63	3278.22	3288.36	3296.45	3302.25
37.5	3050.70	3071.70	3088.16	3106.39	3122.72	3134.36	3143.49	3149.47	3156.62	3159.93
40.0	2929.51	2943.06	2953.37	2964.16	2974.37	2984.01	2993.55	3002.03	3008.47	3014.43
42.5	2788.66	2795.39	2804.44	2815.48	2826.02	2838.31	2851.11	2862.97	2872.44	2877.78
45.0	2642.57	2652.63	2669.20	2687.86	2701.81	2715.06	2725.83	2735.57	2741.79	2746.04
47.5	2520.11	2537.83	2554.57	2571.05	2584.63	2591.30	2591.87	2594.54	2596.32	2596.92
50.0	2410.44	2422.50	2419.87	2419.91	2422.28	2426.29	2429.52	2434.27	2438.56	2440.78
52.5	2246.40	2240.98	2242.89	2246.34	2251.16	2260.26	2271.32	2280.87	2288.06	2291.74
55.0	2055.48	2060.11	2074.18	2087.75	2099.43	2112.38	2125.11	2136.07	2142.88	2145.62
57.5	1884.42	1901.64	1920.49	1937.42	1950.49	1961.36	1972.91	1983.63	1991.15	1993.59
60.0	1718.67	1732.93	1750.48	1767.84	1781.11	1793.05	1807.63	1824.16	1834.99	1839.50

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CANDELA TABULATION - (Cont.)

62.5	1523.19	1537.01	1561.91	1589.16	1609.59	1617.70	1627.17	1637.40	1645.86	1648.64
65.0	1327.51	1344.27	1369.74	1397.81	1416.30	1420.28	1426.59	1432.73	1440.61	1444.81
67.5	1147.68	1160.06	1180.41	1206.21	1222.96	1222.42	1218.96	1221.34	1226.93	1233.98
70.0	962.58	966.11	973.18	988.61	1009.79	1019.03	1006.68	1005.77	1010.20	1020.13
72.5	761.45	766.30	764.94	776.75	802.39	816.27	800.50	796.87	800.65	815.79
75.0	575.86	582.02	577.91	585.95	614.83	621.74	598.74	591.67	595.07	614.79
77.5	403.57	396.83	378.41	371.63	380.37	375.87	346.28	331.41	324.01	326.64
80.0	166.93	151.15	130.45	113.79	101.53	86.50	66.36	50.92	38.14	27.72
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	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>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	3942.13	3942.13	3942.13	3942.13	3942.13
2.5	3928.53	3928.44	3928.37	3928.33	3928.32
5.0	3914.84	3914.67	3914.57	3914.51	3914.51
7.5	3900.41	3900.44	3900.41	3900.46	3900.59
10.0	3885.40	3885.72	3886.07	3886.31	3886.67
12.5	3871.34	3871.91	3872.58	3872.66	3872.92
15.0	3857.19	3858.22	3858.79	3859.09	3859.17
17.5	3811.90	3812.48	3813.08	3813.66	3814.19
20.0	3762.05	3764.31	3766.28	3767.89	3769.20
22.5	3716.46	3719.73	3722.16	3723.77	3724.67
25.0	3671.28	3675.35	3678.11	3679.83	3680.14
27.5	3618.39	3624.68	3629.64	3633.06	3634.94
30.0	3563.21	3572.66	3580.46	3586.18	3589.73
32.5	3440.27	3444.51	3446.92	3448.89	3450.67
35.0	3306.38	3309.28	3310.67	3310.96	3311.60
37.5	3164.75	3167.36	3169.89	3170.30	3171.49
40.0	3019.34	3024.52	3028.10	3029.60	3031.37
42.5	2883.57	2889.24	2890.86	2891.09	2892.46
45.0	2750.82	2754.14	2754.38	2752.69	2753.55
47.5	2598.71	2601.92	2603.40	2602.63	2603.65
50.0	2443.29	2447.49	2451.45	2452.42	2453.74
52.5	2295.07	2299.53	2303.14	2303.70	2305.57
55.0	2148.51	2152.49	2155.45	2155.06	2157.40
57.5	1995.71	1999.57	2003.03	2004.42	2007.11
60.0	1841.75	1846.03	1850.71	1853.80	1856.83
62.5	1645.95	1645.36	1648.80	1651.26	1650.96
65.0	1443.25	1440.53	1444.80	1448.24	1445.08
67.5	1235.33	1232.58	1234.49	1242.76	1240.73
70.0	1027.01	1024.76	1023.85	1037.12	1036.38
72.5	822.50	817.70	821.04	834.43	826.49
75.0	618.65	611.14	618.27	631.88	616.60
77.5	322.75	313.14	312.31	316.82	308.30
80.0	18.14	10.17	4.59	1.18	0.00
82.5	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1455.58	13.80	13.80
0-30	3108.02	29.40	29.40
0-40	5053.64	47.90	47.90
0-60	8793.2	83.30	83.30
0-80	10528.67	99.70	99.70
0-90	10558.16	100.00	100.00
10-90	10184.94	96.50	96.50
20-40	3598.06	34.10	34.10
20-50	5577.21	52.80	52.80
40-70	4961.76	47.00	47.00
60-80	1735.47	16.40	16.40
70-80	513.27	4.90	4.90
80-90	29.49	0.30	0.30
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	10558.16	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	373.22
10-20	1082.36
20-30	1652.44
30-40	1945.62
40-50	1979.15
50-60	1760.41
60-70	1222.2
70-80	513.27
80-90	29.49
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

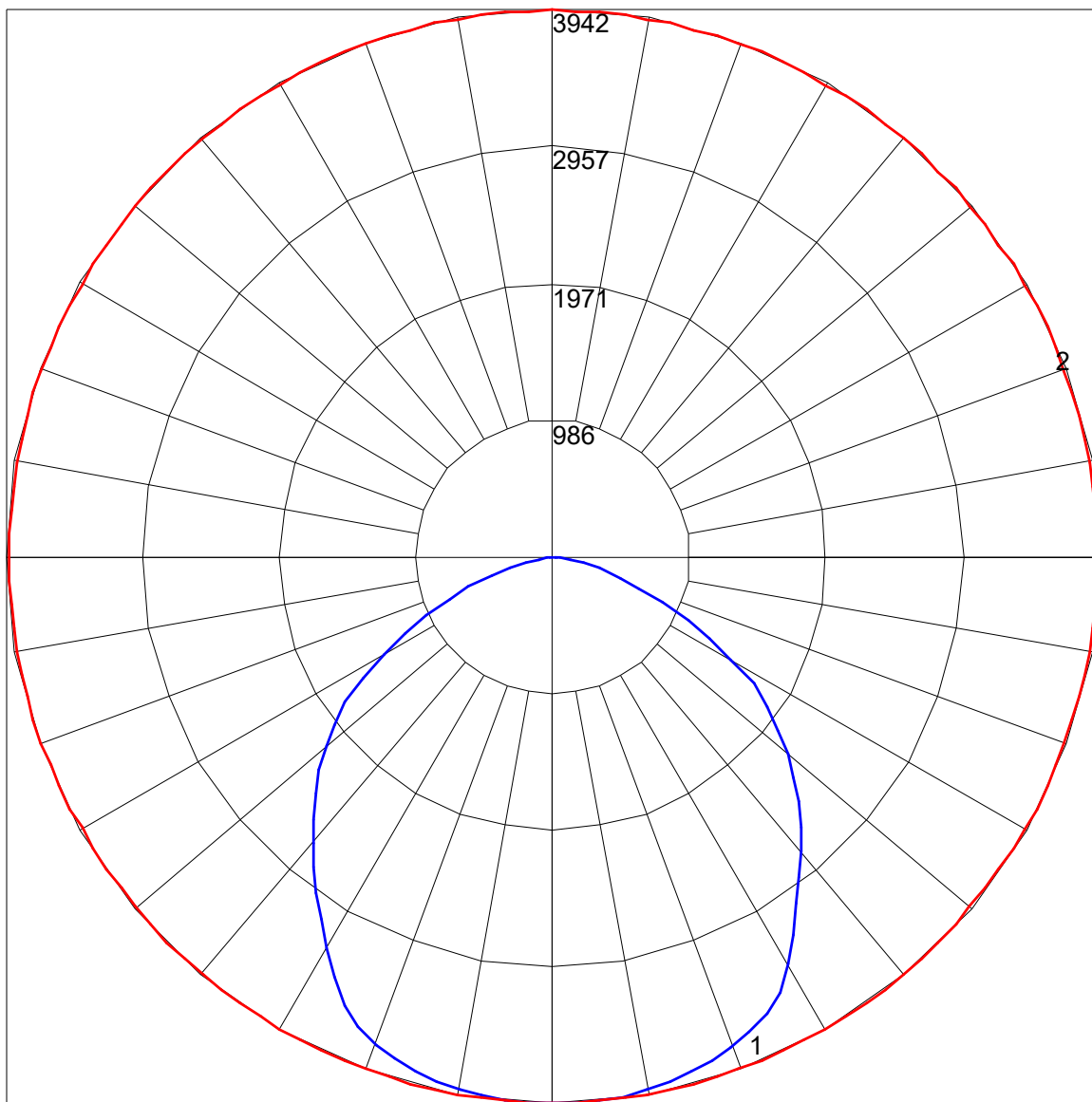
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	27	26

POLAR GRAPH



Maximum Candela = 3942.31 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)