



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS6004HTHOWT50120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1
 [TESTLAB] BEGHELLI
 [TESTDATE] 08 March 2022
 [ISSUEDATE] 2022-03-08 16:56:19
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER]
 [MANUFAC] BEGHELLI
 [LUMINAIRE] HZCAS6004HTHOWT50120-277V
 [LAMP] LED

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

CHARACTERISTICS

Lumens Per Lamp	11893 (1 lamp)
Total Lamp Lumens	11893
Luminaire Lumens	11896
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	79.9195
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.60 m
Luminous Width (90-270)	0.45 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12996	13817	16097
55	8332	11785	14985
65	4066	6335	12607
75	26	2249	8038
85	0	0	795

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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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4306.36	4306.35	4306.44	4306.61	4306.88	4307.24	4307.68	4308.21	4308.83	4309.52
5.0	4258.61	4258.60	4258.77	4259.12	4259.65	4260.27	4260.94	4261.78	4262.80	4263.86
7.5	4210.86	4210.84	4211.09	4211.60	4212.10	4212.84	4213.75	4214.88	4216.12	4217.64
10.0	4163.11	4163.08	4163.41	4163.81	4164.45	4165.28	4166.18	4167.43	4168.46	4169.82
12.5	4115.36	4115.32	4115.65	4116.01	4116.64	4117.28	4118.01	4118.67	4119.69	4121.05
15.0	4067.61	4067.56	4067.78	4068.14	4068.49	4068.82	4068.91	4069.43	4070.40	4071.49
17.5	3966.16	3966.55	3967.77	3969.74	3972.35	3974.98	3978.64	3983.31	3988.30	3994.46
20.0	3864.70	3865.27	3866.64	3868.62	3871.03	3873.98	3877.92	3882.09	3887.38	3892.80
22.5	3763.24	3764.03	3765.47	3767.57	3769.86	3772.88	3776.63	3780.57	3784.88	3790.07
25.0	3661.78	3662.76	3664.36	3666.35	3668.65	3671.50	3674.65	3677.77	3681.59	3686.28
27.5	3560.33	3561.47	3563.12	3565.08	3567.29	3569.74	3571.93	3574.11	3577.69	3580.87
30.0	3458.87	3460.21	3461.91	3463.93	3465.86	3467.47	3468.50	3470.33	3472.13	3474.27
32.5	3296.09	3298.01	3301.41	3306.28	3311.72	3317.98	3325.08	3334.11	3343.58	3355.26
35.0	3133.30	3135.22	3138.51	3142.90	3147.96	3153.62	3160.46	3167.91	3177.64	3188.44
37.5	2970.52	2972.42	2975.52	2979.44	2984.01	2988.89	2995.59	3002.57	3011.47	3020.84
40.0	2807.73	2809.62	2812.38	2815.89	2819.65	2824.14	2830.05	2836.36	2844.13	2852.75
42.5	2644.95	2646.81	2649.22	2652.20	2655.31	2659.23	2664.57	2670.07	2676.47	2684.04
45.0	2482.16	2484.00	2486.02	2488.25	2490.93	2494.25	2498.43	2503.31	2508.59	2514.97
47.5	2184.35	2187.76	2194.31	2203.93	2216.96	2233.88	2254.00	2277.50	2304.02	2333.81
50.0	1886.53	1890.04	1896.73	1906.57	1919.93	1937.53	1958.31	1982.37	2009.61	2039.32
52.5	1588.72	1592.32	1599.10	1609.10	1622.70	1641.44	1662.98	1687.72	1715.16	1745.27
55.0	1290.90	1294.54	1301.52	1312.00	1326.34	1345.39	1367.78	1393.43	1420.63	1451.84
57.5	993.09	996.76	1003.90	1014.77	1029.75	1049.59	1072.91	1099.55	1125.74	1158.98
60.0	695.28	698.99	706.33	717.63	733.31	754.12	778.29	805.89	831.55	864.85
62.5	579.71	581.47	583.62	586.38	590.29	595.91	601.78	607.05	608.62	611.10
65.0	464.14	465.68	467.78	470.58	474.62	480.15	486.15	491.30	494.67	497.76
67.5	348.57	349.88	351.94	354.75	358.96	364.47	370.64	375.86	380.99	385.64
70.0	232.99	234.09	236.10	239.06	243.32	248.84	255.22	260.80	267.58	273.86
72.5	117.42	118.29	120.25	123.32	127.68	133.22	139.88	146.34	154.35	162.34
75.0	1.85	2.49	4.41	7.60	12.04	17.73	24.62	32.39	41.29	51.04
77.5	0.93	0.93	0.96	1.00	1.05	1.13	1.22	1.33	1.45	1.61
80.0	0.00	0.00	0.01	0.03	0.06	0.10	0.14	0.20	0.28	0.37
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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4310.27	4311.04	4311.89	4312.82	4313.84	4314.93	4316.10	4317.35	4318.66	4320.05
5.0	4265.27	4266.64	4268.19	4269.91	4271.79	4273.79	4275.79	4277.95	4280.28	4282.77
7.5	4219.19	4220.83	4222.75	4224.92	4227.14	4229.63	4232.37	4235.29	4238.20	4242.95
10.0	4171.43	4173.29	4175.42	4177.67	4180.16	4182.93	4185.75	4188.94	4192.42	4195.85
12.5	4122.63	4124.41	4126.34	4128.35	4130.67	4133.01	4135.81	4138.78	4142.21	4146.00
15.0	4072.62	4073.77	4074.94	4076.47	4078.22	4080.45	4082.86	4085.82	4088.88	4092.58
17.5	4000.83	4007.88	4016.00	4022.62	4023.12	4025.15	4026.91	4028.77	4031.17	4034.10
20.0	3899.11	3906.43	3914.34	3923.13	3932.82	3943.41	3954.98	3968.49	3969.47	3971.24
22.5	3796.12	3802.77	3810.36	3818.63	3827.92	3838.22	3849.63	3862.01	3875.47	3890.13
25.0	3691.29	3697.20	3703.99	3711.64	3720.20	3728.37	3740.30	3752.11	3765.41	3780.22
27.5	3584.95	3589.90	3595.45	3601.94	3609.44	3617.88	3627.80	3639.14	3651.82	3663.23
30.0	3477.34	3480.64	3484.84	3489.95	3496.14	3503.69	3512.61	3522.20	3533.65	3546.78

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CANDELA TABULATION - (Cont.)

32.5	3368.07	3369.70	3372.36	3376.05	3380.02	3387.18	3393.58	3402.24	3412.23	3424.24
35.0	3200.39	3214.08	3229.67	3246.58	3263.73	3267.09	3272.33	3278.86	3285.48	3297.86
37.5	3030.71	3044.82	3059.78	3077.01	3095.07	3115.69	3138.22	3152.61	3159.09	3168.00
40.0	2862.87	2874.87	2889.03	2904.32	2921.81	2940.86	2962.31	2985.77	3013.23	3033.47
42.5	2693.14	2704.20	2716.87	2731.34	2746.81	2764.50	2786.46	2802.27	2826.97	2857.36
45.0	2522.98	2533.04	2544.41	2556.81	2569.13	2584.07	2595.95	2614.02	2639.01	2664.48
47.5	2352.46	2359.51	2371.04	2381.40	2393.17	2396.37	2406.08	2425.29	2443.11	2460.78
50.0	2074.32	2112.61	2154.15	2198.46	2206.12	2205.12	2217.46	2229.40	2239.28	2257.22
52.5	1780.16	1819.17	1860.57	1903.69	1936.23	1978.83	2024.19	2024.54	2035.51	2050.73
55.0	1486.01	1526.18	1567.83	1606.50	1642.63	1688.25	1731.77	1773.35	1825.79	1840.26
57.5	1193.20	1231.88	1275.53	1310.20	1353.97	1402.24	1442.09	1493.05	1540.28	1585.94
60.0	900.96	940.72	983.35	1022.33	1069.25	1115.58	1162.36	1213.53	1259.79	1313.65
62.5	618.12	649.48	692.18	736.73	785.62	833.68	885.82	938.00	989.43	1045.69
65.0	504.91	511.24	512.99	520.04	526.33	557.82	611.96	666.54	723.18	774.97
67.5	392.68	400.56	405.02	411.87	419.73	426.77	432.89	438.22	460.91	520.11
70.0	281.78	290.41	297.50	305.79	314.58	322.62	331.65	338.44	343.44	350.18
72.5	171.41	181.11	190.50	200.95	211.18	221.31	231.32	240.56	248.97	258.28
75.0	61.55	72.66	84.33	96.66	109.11	121.46	133.77	146.33	157.22	168.66
77.5	1.78	2.00	2.25	2.60	7.72	22.63	37.63	52.19	66.60	80.89
80.0	0.48	0.62	0.79	1.00	1.23	1.52	1.91	2.33	2.82	3.42
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.39	0.77
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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4321.36	4322.99	4324.56	4326.15	4327.80	4329.50	4331.26	4333.07	4334.92	4336.81
5.0	4285.40	4288.07	4291.01	4293.94	4297.01	4300.20	4303.52	4306.96	4310.51	4314.16
7.5	4244.77	4248.07	4252.19	4256.16	4260.37	4264.82	4269.48	4273.85	4279.33	4284.39
10.0	4199.65	4203.12	4208.18	4212.84	4218.58	4223.20	4228.86	4234.79	4241.04	4247.62
12.5	4150.14	4154.79	4159.63	4164.81	4170.49	4176.58	4182.96	4189.84	4197.20	4203.95
15.0	4096.33	4100.77	4105.56	4110.81	4116.04	4122.96	4129.83	4137.37	4145.44	4153.94
17.5	4037.40	4041.30	4045.70	4050.69	4056.40	4062.59	4069.70	4077.54	4086.04	4095.42
20.0	3973.59	3976.32	3979.88	3984.28	3989.57	3995.77	4003.00	4010.85	4019.83	4029.89
22.5	3904.44	3906.25	3908.94	3912.46	3916.88	3922.50	3929.21	3937.19	3946.50	3956.90
25.0	3796.28	3813.61	3832.21	3834.59	3838.18	3843.30	3849.65	3857.19	3866.63	3877.30
27.5	3681.04	3698.46	3717.93	3737.51	3754.51	3758.41	3764.02	3771.23	3782.02	3790.86
30.0	3561.85	3578.93	3598.04	3618.02	3643.28	3667.69	3669.94	3677.21	3685.11	3695.02
32.5	3438.24	3454.57	3476.02	3492.15	3516.44	3541.86	3572.90	3576.01	3582.51	3591.48
35.0	3310.65	3325.49	3341.91	3358.97	3383.52	3408.09	3435.44	3465.90	3470.67	3478.57
37.5	3178.02	3192.12	3203.15	3223.49	3243.57	3266.77	3292.37	3322.04	3350.67	3356.58
40.0	3041.73	3052.04	3064.67	3079.90	3094.22	3112.76	3136.49	3166.43	3202.23	3226.86
42.5	2890.50	2909.22	2914.29	2919.99	2930.45	2948.96	2974.84	3005.24	3038.35	3074.42
45.0	2694.44	2722.21	2748.11	2751.73	2765.79	2784.89	2805.39	2825.81	2852.84	2887.01
47.5	2488.83	2509.28	2539.33	2579.99	2597.81	2604.66	2611.43	2628.68	2663.25	2701.81
50.0	2272.63	2298.14	2330.88	2366.51	2396.78	2410.37	2422.09	2446.34	2470.79	2494.73
52.5	2064.28	2088.81	2117.18	2138.29	2167.11	2207.07	2229.38	2245.11	2263.36	2290.95
55.0	1854.91	1878.58	1891.90	1916.11	1946.00	1978.81	2013.17	2046.95	2066.36	2090.16
57.5	1642.47	1656.73	1675.86	1696.27	1717.74	1752.12	1792.71	1838.90	1855.91	1875.59
60.0	1364.46	1413.34	1459.22	1473.54	1499.99	1529.64	1561.06	1593.95	1639.81	1662.06
62.5	1093.85	1147.09	1196.86	1247.04	1280.08	1303.08	1328.12	1362.45	1402.42	1443.98
65.0	833.68	887.96	939.21	991.56	1039.13	1078.01	1106.32	1140.72	1174.58	1201.94
67.5	581.38	638.43	694.36	747.17	793.58	841.65	893.74	930.11	949.95	977.94

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CANDELA TABULATION - (Cont.)

70.0	357.70	397.26	456.88	512.31	563.33	615.69	671.64	712.79	742.78	766.25
72.5	264.50	270.67	274.22	288.72	345.00	403.47	454.44	500.31	539.53	569.80
75.0	178.09	186.13	191.91	194.12	194.68	196.98	255.50	308.26	353.09	384.51
77.5	93.46	104.97	114.59	120.64	125.56	128.38	131.07	136.29	187.62	226.44
80.0	11.23	26.58	40.26	51.86	61.49	69.13	76.00	82.36	85.44	91.25
82.5	1.22	1.77	2.44	3.25	4.23	14.14	25.20	34.59	41.49	45.52
85.0	0.00	0.00	0.00	0.00	0.00	0.68	1.64	2.88	4.41	10.06
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>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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4338.74	4340.70	4342.70	4344.72	4346.76	4348.83	4350.91	4351.04	4351.18	4351.33
5.0	4317.91	4321.75	4325.33	4329.47	4333.65	4337.83	4342.03	4342.26	4342.49	4342.72
7.5	4289.65	4295.10	4300.74	4306.54	4312.51	4318.62	4324.87	4325.29	4325.85	4326.52
10.0	4254.50	4261.67	4269.11	4275.96	4284.37	4292.82	4301.28	4301.78	4302.28	4302.77
12.5	4213.20	4221.66	4230.57	4239.90	4249.64	4259.78	4270.29	4271.07	4272.21	4273.69
15.0	4163.10	4172.89	4183.29	4194.29	4204.87	4217.74	4230.63	4231.38	4232.14	4235.12
17.5	4105.67	4116.71	4128.51	4141.12	4154.53	4168.70	4183.60	4184.83	4186.74	4189.34
20.0	4040.82	4052.88	4066.04	4080.27	4093.71	4111.32	4128.97	4129.92	4130.87	4135.92
22.5	3968.70	3980.33	3996.28	4011.98	4028.99	4047.28	4066.80	4068.39	4071.18	4075.15
25.0	3889.61	3903.42	3918.91	3936.05	3954.79	3974.37	3996.94	3998.03	4002.05	4006.80
27.5	3803.00	3817.21	3833.43	3851.53	3871.71	3893.90	3918.06	3920.27	3924.37	3930.34
30.0	3707.49	3722.08	3738.95	3758.31	3780.13	3803.20	3830.93	3832.28	3838.22	3845.27
32.5	3602.99	3617.29	3632.58	3654.86	3678.03	3704.18	3733.26	3736.12	3741.82	3750.35
35.0	3489.37	3503.63	3520.94	3541.96	3566.63	3593.19	3626.57	3628.05	3636.23	3646.06
37.5	3366.54	3379.89	3397.53	3419.26	3445.04	3475.04	3509.24	3512.88	3520.64	3532.50
40.0	3234.93	3247.38	3263.43	3284.56	3311.30	3340.98	3380.68	3382.25	3393.49	3407.08
42.5	3084.16	3093.56	3109.83	3132.66	3161.81	3197.46	3239.26	3244.10	3254.71	3271.05
45.0	2920.42	2931.70	2948.30	2969.99	2997.92	3028.87	3074.50	3079.22	3098.54	3120.49
47.5	2745.71	2763.94	2770.78	2784.47	2812.92	2848.12	2892.21	2902.21	2921.25	2947.18
50.0	2534.57	2569.59	2575.71	2596.31	2624.54	2657.66	2709.76	2713.02	2735.33	2762.40
52.5	2326.48	2372.75	2392.34	2408.04	2432.17	2466.93	2513.09	2525.68	2548.92	2581.75
55.0	2119.60	2159.78	2198.03	2211.01	2235.68	2266.91	2321.63	2326.09	2355.05	2391.55
57.5	1905.10	1946.45	2002.62	2016.57	2036.80	2069.67	2116.49	2129.61	2156.35	2195.52
60.0	1689.70	1728.09	1774.21	1800.31	1820.53	1847.99	1905.91	1912.23	1950.61	1997.81
62.5	1458.08	1491.75	1537.24	1584.35	1599.17	1630.21	1682.04	1698.71	1733.00	1782.09
65.0	1232.84	1262.38	1294.03	1336.81	1360.18	1389.99	1439.10	1456.50	1497.26	1549.53
67.5	1010.08	1039.41	1068.97	1111.89	1137.68	1161.71	1206.25	1225.14	1266.16	1306.95
70.0	795.18	830.61	854.92	889.67	931.85	947.66	982.57	1001.31	1046.32	1072.24
72.5	593.55	622.96	648.03	688.98	731.94	738.56	769.34	796.87	847.16	857.68
75.0	407.27	436.39	462.52	495.33	524.85	539.66	561.94	590.13	628.02	651.64
77.5	254.59	270.23	300.07	331.14	347.86	366.30	384.05	407.61	438.44	468.41
80.0	125.01	145.31	158.29	181.13	195.17	200.19	200.88	222.28	268.37	302.98
82.5	45.84	52.06	70.61	74.95	85.02	73.57	70.87	83.50	125.76	166.91
85.0	15.52	19.60	20.98	26.28	27.05	25.70	18.72	28.41	44.21	71.44
87.5	0.00	1.40	4.03	7.31	8.02	6.18	4.04	7.54	17.96	25.97
90.0	0.00	0.00	0.00	0.00	0.00	0.00	4.61	0.00	0.00	0.00

Vert. Horizontal Angles
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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4351.49	4351.66	4351.84	4352.03	4352.23	4352.43	4352.65	4352.87	4353.10	4353.34

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CANDELA TABULATION - (Cont.)

5.0	4342.95	4343.72	4344.18	4344.69	4345.23	4345.80	4346.42	4347.07	4347.76	4348.48
7.5	4327.31	4328.21	4329.22	4330.35	4331.58	4332.30	4334.00	4335.28	4336.65	4338.10
10.0	4304.77	4306.11	4307.62	4309.32	4311.19	4313.23	4315.45	4317.76	4320.21	4322.80
12.5	4275.51	4277.68	4280.18	4281.75	4285.56	4288.57	4291.84	4295.36	4299.03	4302.89
15.0	4237.59	4240.54	4243.96	4247.85	4252.19	4256.71	4261.49	4266.65	4271.45	4277.76
17.5	4192.62	4196.57	4201.09	4206.17	4211.87	4218.16	4224.73	4231.63	4239.03	4246.68
20.0	4140.06	4145.12	4151.08	4157.94	4165.26	4173.29	4182.06	4191.04	4200.59	4210.57
22.5	4080.30	4085.00	4093.76	4102.04	4111.38	4121.38	4132.35	4144.04	4156.58	4169.65
25.0	4012.99	4020.62	4029.65	4039.80	4051.16	4063.30	4077.08	4091.57	4106.46	4122.23
27.5	3938.16	3947.57	3958.64	3971.36	3985.04	3999.93	4016.09	4033.40	4051.58	4066.89
30.0	3854.57	3866.08	3879.49	3894.48	3911.49	3929.77	3947.95	3970.57	3971.61	3971.26
32.5	3759.50	3775.16	3791.32	3809.72	3830.10	3852.41	3875.00	3875.10	3877.29	3879.64
35.0	3659.17	3675.52	3694.53	3716.47	3740.74	3767.46	3767.70	3770.66	3775.90	3780.79
37.5	3548.00	3566.91	3589.44	3614.97	3643.76	3649.32	3652.56	3658.78	3667.55	3678.71
40.0	3425.38	3448.09	3474.81	3505.46	3520.63	3523.60	3530.34	3540.29	3552.62	3567.81
42.5	3292.59	3319.25	3350.48	3378.74	3381.99	3389.49	3400.71	3415.07	3432.49	3452.16
45.0	3148.23	3180.59	3217.68	3228.61	3236.15	3248.16	3264.28	3283.55	3305.87	3331.10
47.5	2986.68	3032.13	3064.04	3070.58	3082.62	3096.15	3117.83	3147.05	3175.43	3199.07
50.0	2796.88	2848.73	2869.58	2884.99	2917.76	2944.84	2971.93	3005.26	3026.60	3032.25
52.5	2622.65	2658.70	2666.42	2685.28	2718.20	2761.76	2811.23	2839.71	2846.95	2859.31
55.0	2441.87	2466.89	2479.04	2498.74	2527.36	2567.40	2599.97	2630.66	2656.14	2679.04
57.5	2241.20	2250.59	2273.66	2308.58	2348.74	2377.41	2391.35	2416.34	2443.61	2487.03
60.0	2032.12	2045.55	2069.30	2104.51	2146.27	2166.88	2189.21	2217.47	2250.13	2283.01
62.5	1800.12	1825.73	1859.57	1911.76	1923.50	1947.11	1979.70	2019.71	2063.36	2087.37
65.0	1574.41	1604.35	1646.41	1671.91	1700.75	1735.25	1774.64	1817.10	1840.83	1857.43
67.5	1330.37	1371.98	1414.61	1439.84	1471.61	1517.46	1564.79	1579.75	1597.65	1628.30
70.0	1105.67	1151.86	1176.21	1211.10	1254.51	1289.03	1315.48	1343.55	1363.74	1396.84
72.5	888.24	926.74	967.42	1003.45	1028.79	1053.23	1080.06	1110.20	1140.15	1169.54
75.0	684.93	720.70	762.15	795.92	808.11	830.90	861.49	888.88	909.27	914.96
77.5	493.58	535.33	563.03	588.39	604.37	626.09	645.98	660.01	667.61	671.18
80.0	332.92	356.30	378.66	401.53	418.23	431.51	440.27	445.01	443.14	438.41
82.5	188.12	205.58	226.07	244.93	252.72	252.95	251.10	243.23	228.98	206.38
85.0	87.32	101.25	107.89	108.18	99.06	81.53	58.59	29.62	0.00	0.00
87.5	25.71	12.63	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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4353.58	4353.79	4353.89	4354.24	4354.46	4354.68	4354.90	4355.12	4355.34	4355.56
5.0	4349.23	4349.85	4350.62	4351.29	4351.98	4352.68	4353.41	4354.15	4354.75	4355.31
7.5	4339.62	4340.83	4342.70	4344.28	4345.90	4347.56	4349.02	4350.42	4351.86	4353.32
10.0	4325.53	4327.61	4330.92	4333.65	4336.46	4339.00	4341.54	4344.15	4346.56	4348.94
12.5	4306.99	4311.10	4315.01	4319.09	4323.22	4327.38	4331.64	4335.48	4339.31	4342.89
15.0	4283.71	4289.62	4295.21	4301.04	4306.96	4313.10	4318.67	4324.27	4329.73	4335.20
17.5	4254.68	4262.79	4270.82	4279.07	4287.42	4295.40	4302.94	4310.62	4317.67	4325.25
20.0	4220.93	4231.47	4242.10	4252.84	4263.75	4273.73	4273.83	4274.59	4274.56	4275.21
22.5	4182.67	4195.92	4209.52	4211.17	4211.92	4212.94	4214.84	4216.67	4218.94	4221.55
25.0	4138.48	4139.67	4141.49	4143.32	4145.78	4148.94	4152.60	4155.02	4160.70	4164.76
27.5	4060.14	4062.33	4065.68	4067.91	4075.76	4081.22	4087.17	4093.45	4099.86	4106.22
30.0	3975.90	3980.39	3986.26	3993.11	4000.76	4009.41	4018.44	4027.51	4036.72	4045.71
32.5	3887.15	3893.94	3902.22	3911.99	3922.88	3934.22	3946.36	3958.74	3969.98	3983.18
35.0	3792.07	3802.55	3814.67	3827.27	3838.99	3856.13	3871.53	3887.17	3902.84	3906.22
37.5	3688.14	3705.83	3721.47	3738.59	3756.45	3774.64	3785.55	3787.85	3790.94	3794.91
40.0	3585.06	3604.24	3624.29	3645.62	3655.49	3658.53	3662.25	3667.75	3673.84	3680.74

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CANDELA TABULATION - (Cont.)

42.5	3473.64	3497.52	3514.47	3517.43	3522.50	3529.34	3537.22	3545.60	3555.00	3564.78
45.0	3358.89	3363.75	3369.19	3377.19	3386.60	3397.33	3409.55	3421.82	3432.85	3447.83
47.5	3202.91	3210.94	3220.74	3230.27	3247.59	3262.96	3279.32	3296.32	3313.08	3329.73
50.0	3040.81	3052.90	3065.79	3086.32	3105.58	3126.53	3147.30	3168.98	3190.17	3207.48
52.5	2875.00	2892.65	2911.47	2936.60	2961.71	2987.39	3012.25	3018.42	3023.01	3027.16
55.0	2703.71	2729.73	2755.91	2784.53	2809.49	2815.38	2822.35	2827.20	2838.58	2846.56
57.5	2525.19	2562.28	2591.81	2595.67	2604.26	2616.95	2628.89	2641.45	2651.50	2664.14
60.0	2336.47	2358.42	2370.74	2381.35	2396.66	2416.02	2434.97	2451.59	2468.30	2484.27
62.5	2101.46	2127.42	2148.24	2165.14	2186.73	2212.07	2239.95	2262.08	2283.13	2303.00
65.0	1868.65	1898.10	1926.09	1946.57	1973.95	2007.22	2043.03	2072.73	2083.23	2075.26
67.5	1648.19	1676.07	1710.32	1733.82	1762.43	1780.55	1787.32	1788.37	1781.04	1773.89
70.0	1429.27	1457.38	1486.99	1485.46	1482.09	1483.82	1487.86	1489.33	1481.85	1474.38
72.5	1193.94	1195.75	1198.46	1201.38	1197.58	1194.11	1194.39	1193.32	1185.11	1176.53
75.0	924.59	928.72	925.52	925.97	917.41	911.35	905.88	901.25	890.59	880.12
77.5	671.92	669.07	659.92	654.61	642.01	633.13	621.81	611.91	598.23	579.02
80.0	429.38	417.31	402.18	382.40	358.20	334.05	306.50	278.72	249.39	219.87
82.5	179.73	149.60	117.67	83.27	48.41	11.91	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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4355.79	4356.01	4356.23	4356.37	4356.49	4356.58	4356.66	4356.74	4356.81	4356.88
5.0	4355.87	4356.43	4357.00	4357.35	4357.96	4358.40	4358.84	4359.28	4359.62	4359.71
7.5	4354.53	4355.72	4356.94	4357.99	4358.84	4359.69	4360.38	4361.17	4361.84	4362.45
10.0	4351.25	4353.37	4355.42	4357.30	4358.98	4360.64	4361.79	4362.91	4363.90	4364.91
12.5	4346.39	4349.64	4352.68	4355.52	4358.16	4360.55	4362.72	4364.44	4365.85	4367.08
15.0	4339.98	4344.65	4349.01	4353.00	4356.61	4359.87	4362.95	4365.62	4367.64	4369.17
17.5	4326.96	4326.91	4326.70	4326.71	4326.44	4327.00	4327.25	4327.75	4328.39	4328.52
20.0	4276.30	4277.14	4278.11	4279.08	4280.13	4280.78	4282.22	4283.26	4284.42	4285.35
22.5	4223.47	4225.91	4228.12	4230.28	4232.41	4234.56	4236.59	4238.38	4240.25	4242.05
25.0	4169.31	4173.08	4176.90	4180.55	4183.86	4187.13	4190.35	4193.15	4195.78	4198.38
27.5	4112.47	4118.92	4124.54	4129.80	4134.78	4138.90	4143.52	4147.54	4151.04	4154.40
30.0	4054.38	4062.69	4071.09	4078.26	4084.70	4090.59	4096.04	4101.50	4106.08	4110.31
32.5	3994.66	4005.51	4015.79	4016.49	4016.38	4016.75	4017.04	4018.33	4019.55	4020.98
35.0	3909.02	3910.92	3912.97	3915.30	3917.67	3918.90	3921.31	3923.45	3925.52	3927.32
37.5	3799.29	3803.96	3807.23	3813.12	3818.07	3821.67	3825.15	3828.23	3831.47	3833.70
40.0	3687.93	3695.41	3702.88	3710.06	3716.91	3723.18	3728.34	3733.01	3737.05	3740.13
42.5	3575.21	3585.61	3595.76	3605.72	3615.21	3623.91	3631.35	3637.30	3642.65	3646.57
45.0	3461.06	3474.76	3487.73	3500.65	3512.91	3523.98	3533.55	3541.38	3548.21	3552.94
47.5	3346.23	3360.68	3379.14	3388.67	3391.31	3393.79	3395.99	3397.39	3399.10	3400.26
50.0	3209.00	3211.72	3215.56	3219.36	3223.83	3227.98	3231.82	3235.06	3238.27	3240.96
52.5	3032.29	3037.68	3043.72	3049.82	3056.11	3062.11	3067.68	3072.62	3076.59	3081.13
55.0	2854.99	2863.35	2871.83	2880.21	2888.41	2896.16	2903.28	2909.80	2915.96	2921.72
57.5	2675.30	2686.81	2699.98	2710.70	2720.85	2730.27	2738.81	2746.87	2754.46	2761.82
60.0	2498.85	2513.79	2527.95	2541.05	2553.29	2564.52	2573.86	2583.98	2592.93	2601.86
62.5	2321.05	2338.78	2349.79	2341.19	2333.12	2326.11	2319.82	2315.38	2312.35	2311.69
65.0	2064.81	2056.68	2048.64	2040.37	2032.37	2025.27	2018.86	2014.19	2010.80	2009.63
67.5	1765.75	1753.45	1748.38	1740.42	1732.37	1724.94	1718.35	1713.31	1709.52	1707.39
70.0	1466.67	1458.34	1449.53	1441.25	1433.04	1425.07	1418.20	1412.71	1408.47	1406.02
72.5	1168.17	1160.92	1151.45	1142.65	1134.23	1125.67	1118.35	1111.83	1107.63	1104.36
75.0	872.07	864.18	854.24	844.78	835.66	826.63	818.81	812.14	806.97	802.83
77.5	559.86	540.46	519.05	498.15	478.88	460.70	444.61	430.66	419.38	410.37

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CANDELA TABULATION - (Cont.)

80.0	192.75	165.93	139.52	114.63	91.62	70.79	52.42	36.62	23.58	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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4356.94	4357.00	4357.05	4356.87	4356.67	4356.48	4356.28	4356.08	4355.87	4355.66
5.0	4359.80	4359.90	4359.99	4359.65	4359.31	4358.97	4358.64	4358.29	4357.65	4357.16
7.5	4362.63	4362.79	4362.93	4362.45	4361.95	4361.44	4360.72	4359.98	4359.23	4358.24
10.0	4365.54	4365.70	4365.86	4365.28	4364.71	4363.87	4362.75	4361.60	4360.23	4358.85
12.5	4368.23	4368.60	4368.80	4368.13	4367.52	4366.03	4364.61	4362.93	4360.79	4358.01
15.0	4370.80	4371.53	4371.74	4371.02	4369.92	4368.23	4366.29	4363.83	4360.43	4356.84
17.5	4328.95	4329.42	4329.63	4329.21	4328.63	4328.07	4327.74	4326.38	4325.34	4324.53
20.0	4284.95	4286.72	4287.51	4286.91	4285.29	4285.68	4284.46	4282.84	4281.96	4279.92
22.5	4243.06	4244.51	4245.39	4245.25	4244.37	4243.29	4241.26	4239.26	4237.10	4234.43
25.0	4198.86	4201.63	4203.27	4203.00	4200.81	4200.60	4198.05	4195.49	4192.35	4188.51
27.5	4157.16	4159.34	4161.16	4161.20	4159.96	4157.73	4154.80	4151.50	4147.12	4142.13
30.0	4112.34	4116.27	4119.04	4118.79	4116.13	4114.93	4111.64	4107.21	4101.40	4094.71
32.5	4022.57	4023.93	4025.72	4026.01	4025.67	4024.98	4024.13	4023.14	4021.88	4020.44
35.0	3929.37	3929.79	3932.40	3931.38	3931.65	3930.12	3928.64	3926.44	3923.76	3921.65
37.5	3836.17	3837.58	3839.08	3838.66	3837.71	3835.24	3833.52	3829.32	3826.31	3821.95
40.0	3742.84	3743.46	3745.76	3743.96	3743.24	3740.24	3736.75	3732.15	3727.11	3721.70
42.5	3649.58	3651.35	3652.44	3651.26	3648.97	3645.47	3640.47	3634.56	3629.26	3620.95
45.0	3556.38	3557.26	3559.12	3556.53	3554.70	3549.87	3544.57	3537.01	3528.80	3519.79
47.5	3401.29	3401.84	3402.32	3401.43	3400.33	3398.45	3396.51	3394.78	3392.49	3390.69
50.0	3243.27	3242.82	3245.51	3242.93	3243.23	3240.88	3238.16	3235.49	3232.03	3228.66
52.5	3085.02	3087.47	3088.71	3087.82	3086.15	3083.31	3079.89	3076.24	3071.63	3066.41
55.0	2926.89	2928.65	2931.90	2929.49	2929.44	2925.59	2921.58	2916.77	2910.96	2903.74
57.5	2768.48	2772.99	2775.09	2774.08	2771.76	2767.89	2763.32	2757.33	2750.20	2740.78
60.0	2604.05	2614.21	2618.29	2615.74	2608.69	2610.27	2605.14	2598.06	2589.55	2579.29
62.5	2312.39	2313.55	2314.50	2314.93	2316.65	2319.45	2324.00	2329.55	2334.39	2339.47
65.0	1999.33	2007.53	2010.70	2008.75	2003.10	2016.34	2021.40	2025.60	2030.82	2036.03
67.5	1706.61	1706.62	1706.91	1707.66	1709.87	1713.33	1717.96	1722.59	1727.65	1733.02
70.0	1395.40	1401.08	1403.11	1401.93	1398.07	1410.55	1415.12	1419.78	1425.50	1430.44
72.5	1101.23	1099.82	1099.32	1100.47	1103.33	1107.46	1112.43	1117.14	1122.08	1128.32
75.0	792.07	794.81	795.53	795.24	793.50	804.63	809.86	814.94	819.71	826.58
77.5	403.31	399.24	397.77	399.45	404.07	411.30	420.83	431.84	444.70	460.48
80.0	0.00	0.00	0.00	0.00	0.00	0.00	23.66	36.72	52.41	70.71
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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4355.44	4355.22	4355.09	4354.75	4354.51	4354.27	4354.02	4353.78	4353.54	4353.31
5.0	4356.67	4356.18	4355.56	4354.86	4354.15	4353.45	4352.76	4352.19	4351.04	4350.10
7.5	4357.19	4356.13	4354.79	4353.20	4351.64	4350.21	4348.41	4346.77	4345.16	4343.91
10.0	4356.67	4354.50	4352.23	4349.88	4347.56	4344.95	4342.38	4340.29	4336.89	4334.10
12.5	4355.11	4352.11	4348.89	4345.49	4341.86	4337.96	4334.05	4330.04	4326.07	4321.54

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CANDELA TABULATION - (Cont.)

15.0	4353.64	4348.92	4344.38	4339.48	4334.41	4329.35	4323.44	4318.32	4311.50	4306.39
17.5	4323.75	4322.65	4321.85	4321.44	4320.48	4317.91	4310.35	4302.78	4295.25	4287.58
20.0	4277.95	4276.14	4274.30	4273.24	4270.36	4268.94	4267.93	4267.57	4266.60	4266.28
22.5	4231.58	4228.48	4225.16	4222.09	4219.84	4216.74	4214.04	4211.55	4209.37	4207.57
25.0	4184.34	4179.74	4175.37	4171.10	4166.60	4162.03	4158.07	4153.18	4148.71	4144.67
27.5	4137.18	4130.58	4124.76	4118.37	4111.80	4105.19	4098.34	4091.39	4084.72	4078.14
30.0	4087.87	4081.28	4072.65	4064.12	4055.40	4046.06	4036.55	4026.94	4017.09	4008.05
32.5	4020.06	4019.64	4019.32	4008.63	3996.98	3984.92	3972.45	3961.37	3947.00	3934.46
35.0	3919.49	3917.16	3915.88	3913.39	3911.60	3910.28	3905.35	3889.78	3873.65	3857.24
37.5	3818.40	3813.93	3810.09	3805.68	3801.74	3799.46	3794.28	3791.29	3789.65	3777.39
40.0	3715.85	3709.94	3703.45	3697.12	3690.20	3684.12	3677.68	3672.34	3665.94	3662.14
42.5	3613.15	3605.08	3596.29	3587.45	3578.34	3568.95	3559.09	3549.86	3541.86	3534.39
45.0	3510.13	3499.35	3488.54	3478.14	3465.22	3452.37	3439.37	3427.42	3416.78	3403.65
47.5	3388.99	3387.84	3380.28	3366.55	3351.02	3334.75	3319.96	3303.30	3286.60	3271.53
50.0	3224.92	3222.92	3219.22	3217.28	3214.87	3213.52	3199.78	3177.16	3156.55	3136.48
52.5	3060.56	3055.46	3050.44	3045.41	3040.00	3036.08	3034.33	3027.87	3023.23	2999.80
55.0	2896.05	2888.50	2881.17	2873.06	2864.85	2856.94	2849.47	2841.10	2834.13	2828.71
57.5	2731.39	2721.21	2711.47	2700.19	2689.16	2676.89	2664.42	2652.24	2640.37	2630.40
60.0	2566.51	2553.91	2541.43	2527.33	2512.33	2496.31	2479.50	2462.41	2445.55	2430.02
62.5	2346.90	2355.30	2365.36	2354.49	2335.17	2315.46	2293.93	2271.72	2249.90	2228.04
65.0	2044.34	2052.25	2061.69	2071.21	2079.04	2087.25	2093.44	2080.65	2053.78	2025.05
67.5	1740.60	1750.15	1759.78	1766.07	1777.48	1784.95	1791.22	1796.18	1800.73	1800.65
70.0	1438.54	1449.88	1459.00	1469.06	1478.01	1485.06	1491.66	1498.04	1503.73	1504.98
72.5	1137.50	1148.18	1159.30	1169.96	1178.12	1187.25	1194.82	1203.65	1211.43	1214.40
75.0	836.28	848.22	861.30	871.76	881.39	891.17	900.46	913.02	923.47	929.21
77.5	478.88	500.32	523.11	545.93	567.79	589.91	609.04	624.55	639.29	648.89
80.0	91.64	115.09	140.66	167.78	195.58	224.37	253.80	285.57	316.39	344.36
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.30
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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4353.07	4352.84	4352.61	4352.38	4352.25	4351.81	4351.52	4351.25	4350.99	4350.73
5.0	4349.18	4348.29	4347.42	4346.59	4346.22	4344.86	4344.04	4343.26	4342.53	4341.83
7.5	4341.79	4340.10	4338.47	4336.90	4335.24	4333.59	4332.03	4330.55	4329.17	4327.88
10.0	4331.80	4328.48	4325.71	4323.05	4320.21	4317.39	4314.71	4312.20	4310.39	4307.51
12.5	4317.14	4312.76	4308.40	4304.24	4300.08	4296.01	4292.16	4289.35	4284.96	4281.68
15.0	4299.55	4293.75	4287.83	4282.17	4276.39	4270.69	4265.31	4259.80	4254.58	4249.74
17.5	4279.73	4271.75	4263.62	4255.54	4247.55	4239.76	4233.96	4224.93	4218.08	4211.55
20.0	4256.36	4245.70	4235.17	4224.59	4214.14	4203.87	4193.83	4184.08	4176.18	4166.14
22.5	4205.82	4204.70	4203.73	4188.94	4175.55	4162.49	4149.76	4137.64	4125.77	4114.35
25.0	4141.03	4137.89	4135.42	4133.82	4132.53	4115.77	4099.41	4084.35	4068.95	4055.20
27.5	4073.31	4066.84	4061.70	4057.32	4053.97	4051.77	4043.36	4024.47	4006.21	3988.98
30.0	3999.17	3990.54	3982.55	3975.59	3969.85	3965.19	3961.53	3958.56	3937.09	3916.19
32.5	3921.98	3910.09	3899.19	3889.22	3880.33	3873.17	3866.84	3862.75	3860.92	3837.72
35.0	3841.40	3826.89	3814.09	3801.12	3787.18	3776.06	3767.19	3759.88	3754.58	3751.66
37.5	3758.14	3739.36	3721.02	3704.17	3688.57	3673.96	3660.91	3650.32	3641.59	3635.49
40.0	3660.56	3649.22	3627.22	3605.88	3585.48	3566.89	3549.12	3534.18	3521.93	3512.56
42.5	3527.73	3523.50	3520.58	3503.84	3478.15	3454.02	3432.31	3412.53	3395.26	3381.54
45.0	3394.08	3384.96	3378.13	3372.38	3366.75	3337.26	3309.22	3284.13	3261.12	3241.90
47.5	3256.64	3243.44	3231.10	3221.35	3213.25	3207.98	3180.33	3148.21	3119.89	3095.49
50.0	3117.02	3098.49	3081.43	3065.14	3051.79	3039.66	3032.06	3008.45	2973.82	2945.15

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CANDELA TABULATION - (Cont.)

52.5	2975.34	2951.29	2925.84	2906.21	2884.60	2866.66	2852.22	2844.12	2818.16	2774.87
55.0	2825.75	2801.19	2771.42	2741.83	2712.72	2685.19	2663.86	2644.65	2631.71	2602.01
57.5	2620.85	2612.72	2606.93	2573.65	2532.51	2498.19	2466.36	2438.88	2419.14	2400.55
60.0	2413.90	2399.58	2385.03	2367.72	2349.71	2306.11	2264.05	2231.97	2204.16	2184.88
62.5	2205.88	2183.77	2160.59	2139.18	2119.94	2096.38	2066.11	2029.33	1997.48	1973.63
65.0	1996.37	1966.50	1938.89	1916.27	1890.63	1865.48	1848.28	1832.55	1789.32	1754.23
67.5	1785.73	1751.51	1725.97	1698.31	1667.65	1639.97	1619.43	1597.99	1578.09	1541.37
70.0	1501.33	1499.88	1505.00	1486.55	1450.74	1420.54	1390.82	1364.14	1344.90	1315.84
72.5	1214.31	1215.86	1222.76	1223.41	1216.82	1204.11	1170.23	1145.54	1120.98	1089.71
75.0	936.02	940.89	949.45	951.40	948.05	946.15	940.71	939.20	916.23	876.79
77.5	659.34	670.63	681.70	686.29	693.69	695.73	697.80	703.45	693.29	670.56
80.0	372.45	398.08	420.11	432.41	446.13	456.24	466.43	474.68	472.69	462.60
82.5	50.25	87.18	122.75	156.22	187.99	216.12	241.44	259.56	270.70	275.25
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.86	63.70	91.84
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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4350.49	4350.26	4350.04	4349.83	4349.64	4349.46	4349.30	4349.15	4349.01	4346.93
5.0	4341.17	4340.56	4340.00	4339.48	4339.01	4338.59	4338.22	4337.89	4337.62	4333.46
7.5	4327.01	4325.42	4324.32	4323.33	4322.45	4321.69	4321.05	4320.53	4320.12	4313.81
10.0	4305.40	4303.48	4301.76	4300.23	4298.90	4297.77	4296.84	4296.12	4295.59	4287.08
12.5	4278.66	4275.92	4274.30	4270.96	4268.90	4267.17	4265.76	4264.70	4263.97	4253.18
15.0	4246.48	4241.00	4237.21	4233.88	4231.00	4228.60	4226.66	4225.21	4224.24	4211.10
17.5	4205.29	4199.61	4194.54	4191.48	4185.95	4182.60	4179.95	4178.00	4176.77	4161.25
20.0	4158.09	4151.64	4143.99	4138.04	4132.96	4128.75	4125.43	4123.01	4121.50	4103.55
22.5	4105.89	4094.10	4085.38	4077.76	4071.20	4065.79	4061.59	4058.59	4056.81	4036.42
25.0	4042.10	4030.26	4022.40	4010.02	4001.91	3995.30	3990.20	3986.61	3984.56	3961.65
27.5	3972.89	3958.32	3945.21	3933.78	3925.65	3915.76	3909.43	3905.05	3902.61	3877.12
30.0	3897.87	3879.40	3863.68	3849.69	3837.73	3828.00	3820.51	3815.31	3812.41	3784.25
32.5	3814.73	3793.56	3774.27	3757.19	3742.69	3730.79	3721.64	3715.29	3711.79	3681.25
35.0	3724.61	3699.70	3676.69	3659.06	3639.49	3625.50	3614.76	3607.35	3603.30	3570.34
37.5	3627.76	3598.21	3572.48	3548.17	3528.31	3511.93	3499.20	3490.52	3485.93	3450.46
40.0	3506.60	3489.54	3458.40	3431.13	3407.55	3388.23	3373.55	3363.59	3358.42	3320.35
42.5	3371.42	3365.55	3335.81	3303.52	3275.92	3256.64	3236.74	3225.47	3219.89	3179.32
45.0	3226.82	3216.58	3208.53	3166.63	3135.43	3110.04	3091.11	3078.71	3072.92	3028.78
47.5	3075.23	3059.82	3050.50	3023.56	2983.44	2953.27	2930.01	2914.90	2908.15	2857.56
50.0	2916.99	2890.85	2874.30	2856.41	2811.86	2774.41	2745.47	2725.82	2716.12	2665.05
52.5	2738.76	2708.21	2686.54	2665.15	2622.93	2580.33	2549.48	2530.00	2521.45	2470.75
55.0	2553.86	2511.50	2480.55	2459.81	2435.61	2393.15	2362.36	2342.98	2335.15	2279.64
57.5	2364.83	2320.71	2287.23	2264.16	2251.64	2204.61	2165.78	2140.03	2128.96	2073.98
60.0	2174.72	2135.68	2091.01	2055.80	2032.24	1995.59	1954.21	1928.69	1919.02	1861.19
62.5	1951.42	1935.95	1880.20	1840.00	1814.90	1790.39	1749.71	1710.26	1697.68	1638.85
65.0	1723.90	1699.92	1688.74	1623.84	1583.06	1556.58	1509.67	1477.38	1466.23	1405.65
67.5	1498.20	1468.41	1440.14	1401.48	1358.15	1327.98	1287.93	1249.04	1233.55	1177.95
70.0	1282.69	1242.83	1210.81	1191.02	1141.78	1101.21	1069.57	1027.91	1011.87	959.54
72.5	1065.00	1029.61	989.48	962.82	943.39	893.67	857.97	821.03	811.36	753.67
75.0	841.07	812.11	784.21	751.88	735.25	691.28	646.07	610.29	597.22	551.20
77.5	635.76	606.10	579.67	552.58	530.78	507.88	459.66	430.41	409.95	379.91
80.0	443.71	423.13	399.16	379.58	359.14	328.90	299.60	262.43	234.48	223.67
82.5	271.51	262.95	245.50	223.79	207.53	190.99	155.88	117.34	91.74	96.85
85.0	114.03	123.45	121.70	113.11	99.59	85.73	64.38	38.21	29.64	29.09
87.5	0.00	0.00	0.00	14.90	30.40	33.10	25.82	16.82	7.14	10.26

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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	7.16	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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4344.88	4342.84	4340.83	4338.86	4336.91	4335.01	4333.15	4331.33	4329.57	4327.85
5.0	4329.36	4325.32	4321.36	4317.48	4313.69	4310.00	4306.41	4302.94	4299.58	4296.35
7.5	4307.64	4301.61	4295.74	4290.04	4284.53	4279.22	4274.51	4269.15	4264.35	4259.78
10.0	4278.79	4270.74	4262.94	4255.42	4248.20	4241.28	4234.69	4228.44	4223.13	4216.90
12.5	4242.75	4232.71	4223.08	4213.89	4206.12	4196.78	4188.80	4181.32	4174.35	4168.83
15.0	4198.49	4186.43	4174.95	4164.08	4153.86	4144.31	4136.75	4127.18	4119.56	4112.67
17.5	4146.48	4132.50	4119.35	4108.57	4095.50	4084.72	4074.83	4065.87	4057.58	4050.03
20.0	4086.57	4070.58	4055.64	4041.78	4029.03	4018.30	4006.70	3997.09	3989.93	3981.08
22.5	4017.30	3999.50	3983.06	3968.02	3954.38	3942.20	3933.55	3921.78	3913.32	3906.07
25.0	3940.32	3920.66	3902.69	3886.48	3874.87	3859.17	3847.95	3838.51	3830.14	3824.00
27.5	3853.67	3832.35	3814.87	3795.93	3780.68	3767.59	3758.43	3747.52	3740.30	3734.72
30.0	3758.50	3735.23	3714.51	3696.40	3680.82	3667.58	3657.77	3648.68	3643.02	3638.42
32.5	3653.65	3629.06	3607.51	3588.94	3573.42	3560.65	3550.34	3542.76	3539.26	3509.28
35.0	3540.85	3514.90	3492.52	3476.12	3458.14	3445.98	3436.68	3430.51	3400.35	3373.45
37.5	3419.20	3392.25	3369.28	3350.17	3335.99	3323.99	3316.56	3287.90	3257.93	3231.67
40.0	3287.17	3258.95	3235.71	3217.25	3203.26	3193.97	3171.40	3138.00	3108.83	3083.78
42.5	3144.55	3118.56	3092.36	3074.78	3062.41	3048.03	3010.95	2979.57	2952.70	2930.23
45.0	2991.58	2961.61	2939.09	2922.75	2917.40	2875.50	2837.72	2808.55	2787.05	2769.30
47.5	2815.78	2783.13	2759.80	2749.20	2729.88	2689.54	2652.59	2621.91	2602.22	2591.46
50.0	2623.59	2590.79	2565.75	2551.60	2516.69	2481.76	2458.12	2434.08	2409.85	2397.08
52.5	2431.10	2402.29	2382.32	2359.15	2313.33	2274.14	2249.85	2231.04	2220.38	2189.43
55.0	2236.62	2206.82	2189.20	2150.42	2109.87	2077.04	2050.25	2032.01	2007.27	1965.36
57.5	2033.60	2005.81	1985.46	1934.95	1897.00	1869.08	1849.57	1823.37	1775.37	1737.40
60.0	1819.62	1794.72	1761.48	1716.75	1687.05	1660.90	1635.55	1586.79	1545.49	1510.96
62.5	1606.83	1576.60	1530.48	1485.01	1457.38	1447.67	1400.89	1355.50	1314.11	1283.26
65.0	1364.91	1337.54	1294.55	1261.67	1242.94	1194.66	1159.18	1124.91	1089.63	1058.11
67.5	1144.65	1113.60	1073.09	1043.04	1008.85	967.10	929.43	897.92	864.58	823.23
70.0	931.84	896.31	868.44	847.03	789.89	749.51	715.92	682.04	640.51	594.17
72.5	721.38	688.39	665.92	632.57	590.46	545.26	513.39	475.41	431.73	381.98
75.0	521.76	495.93	473.20	435.44	401.38	367.04	330.25	289.28	241.00	183.41
77.5	350.95	326.25	296.45	263.98	243.12	212.71	169.88	120.53	119.54	118.90
80.0	201.22	179.74	152.09	138.48	115.05	76.96	72.74	71.94	69.13	64.34
82.5	91.11	74.00	66.10	45.52	38.56	38.11	35.63	30.60	23.36	13.83
85.0	27.39	25.73	19.11	16.76	14.50	9.53	4.88	3.23	1.84	0.75
87.5	9.31	8.22	4.66	1.49	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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4326.19	4324.59	4323.21	4321.56	4320.06	4318.63	4317.26	4315.96	4314.74	4313.59
5.0	4293.25	4290.28	4287.96	4284.76	4282.13	4279.65	4277.32	4275.16	4273.16	4271.52
7.5	4255.45	4251.36	4247.53	4243.88	4240.30	4238.55	4233.90	4231.47	4228.37	4225.84
10.0	4212.33	4206.64	4202.07	4197.78	4193.65	4189.91	4187.05	4183.37	4180.52	4178.61
12.5	4161.88	4156.31	4151.29	4146.64	4142.20	4138.29	4134.76	4131.58	4128.93	4126.36
15.0	4106.41	4100.28	4094.86	4090.03	4085.73	4082.18	4078.88	4077.21	4073.78	4072.58
17.5	4045.22	4037.52	4032.44	4028.14	4024.54	4021.46	4018.57	4016.40	4014.99	4013.92
20.0	3974.63	3969.06	3964.33	3960.48	3957.51	3955.27	3953.95	3953.54	3940.77	3929.95
22.5	3899.79	3894.75	3890.72	3887.80	3887.00	3871.97	3857.68	3844.88	3833.20	3822.83

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CANDELA TABULATION - (Cont.)

25.0	3818.58	3815.10	3812.23	3793.55	3776.15	3760.42	3746.32	3733.65	3722.32	3712.40
27.5	3730.71	3716.13	3695.23	3676.65	3659.90	3644.60	3632.20	3618.95	3608.61	3599.42
30.0	3615.08	3593.02	3572.70	3554.40	3538.06	3523.82	3511.48	3500.56	3491.27	3483.72
32.5	3485.15	3464.12	3447.20	3427.29	3412.34	3399.19	3387.89	3378.63	3371.01	3366.97
35.0	3349.72	3329.02	3311.73	3298.14	3284.15	3271.35	3261.54	3253.59	3247.65	3243.43
37.5	3208.83	3189.39	3173.05	3160.77	3148.07	3139.05	3131.48	3126.10	3113.00	3089.68
40.0	3062.71	3045.09	3030.45	3018.88	3010.20	3003.70	2985.36	2957.26	2933.51	2913.34
42.5	2910.92	2895.36	2883.70	2874.95	2857.78	2827.31	2799.38	2774.79	2756.60	2733.23
45.0	2753.48	2741.55	2732.36	2697.07	2663.57	2635.42	2612.14	2589.24	2570.58	2551.97
47.5	2587.39	2573.37	2530.96	2494.73	2466.00	2437.44	2418.00	2401.86	2384.22	2369.22
50.0	2383.44	2352.05	2317.98	2284.70	2258.68	2235.14	2218.02	2207.86	2197.44	2184.99
52.5	2148.93	2119.57	2095.20	2069.23	2045.74	2029.95	2015.04	2007.81	2006.19	1960.91
55.0	1925.65	1891.89	1867.97	1849.47	1829.01	1816.13	1801.95	1755.53	1714.33	1672.54
57.5	1706.08	1673.16	1646.17	1627.81	1607.50	1559.57	1515.77	1470.42	1424.86	1381.99
60.0	1481.72	1459.83	1430.97	1382.14	1333.26	1283.16	1236.41	1191.14	1141.02	1095.23
62.5	1260.40	1226.12	1176.06	1117.93	1066.13	1015.35	963.97	913.79	863.34	813.34
65.0	1016.01	969.95	918.65	863.89	807.40	751.94	696.73	644.31	590.70	535.06
67.5	772.73	722.84	669.20	614.64	555.98	496.43	436.72	417.19	413.07	406.66
70.0	544.03	489.60	431.03	370.53	332.03	330.42	325.05	320.93	315.26	308.62
72.5	327.30	267.47	251.01	247.70	246.01	242.13	235.37	227.43	220.83	212.06
75.0	180.93	180.31	176.67	170.79	164.75	157.32	148.62	138.57	127.81	116.66
77.5	116.45	112.46	105.46	96.36	86.43	75.61	63.28	49.79	36.22	22.01
80.0	57.55	48.81	37.94	25.13	11.05	3.80	3.15	2.56	2.09	1.69
82.5	4.81	3.74	2.80	2.01	1.37	0.85	0.43	0.09	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	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4312.52	4311.53	4310.62	4309.79	4309.15	4308.39	4307.80	4307.31	4306.90	4306.59
5.0	4269.51	4267.81	4266.28	4264.92	4263.75	4262.61	4261.48	4260.53	4259.75	4259.30
7.5	4223.59	4221.72	4219.67	4217.99	4216.58	4215.30	4214.13	4213.23	4212.50	4211.62
10.0	4175.57	4173.35	4171.49	4169.61	4168.10	4166.79	4165.67	4164.90	4164.15	4163.76
12.5	4124.31	4122.49	4121.06	4119.69	4118.43	4117.36	4116.46	4115.77	4115.31	4115.08
15.0	4070.08	4068.89	4067.84	4067.31	4067.02	4066.73	4067.02	4066.13	4066.07	4066.09
17.5	4013.40	4012.85	4006.93	3999.69	3993.23	3987.74	3983.09	3978.53	3974.58	3971.42
20.0	3919.87	3911.06	3903.17	3896.90	3889.45	3884.01	3879.52	3875.81	3872.73	3869.08
22.5	3813.38	3804.69	3797.68	3790.56	3784.50	3779.34	3775.17	3771.85	3769.04	3766.43
25.0	3704.38	3696.40	3689.43	3683.43	3678.33	3673.76	3670.09	3667.36	3665.31	3663.39
27.5	3591.49	3585.00	3579.69	3574.95	3570.76	3567.35	3565.26	3562.34	3561.02	3559.98
30.0	3477.30	3471.75	3467.59	3464.62	3462.14	3460.22	3458.00	3456.52	3456.18	3456.18
32.5	3360.48	3356.97	3354.01	3352.43	3351.97	3339.94	3328.88	3319.39	3312.00	3306.01
35.0	3240.74	3226.63	3210.25	3195.48	3183.68	3172.30	3162.43	3153.85	3146.47	3141.22
37.5	3069.99	3054.98	3038.26	3025.01	3013.45	3003.76	2995.58	2987.53	2981.58	2976.08
40.0	2893.90	2877.99	2864.51	2853.11	2843.06	2834.49	2827.33	2820.95	2815.11	2810.98
42.5	2716.32	2701.78	2689.72	2680.06	2671.61	2664.78	2658.82	2653.62	2649.93	2645.49
45.0	2537.31	2524.63	2513.95	2506.98	2499.35	2494.23	2489.86	2486.01	2482.89	2480.03
47.5	2357.24	2346.17	2337.65	2330.98	2326.57	2311.43	2284.24	2259.68	2238.25	2219.24
50.0	2176.31	2160.32	2119.53	2081.45	2047.82	2017.66	1989.09	1963.67	1941.51	1922.46
52.5	1915.08	1869.40	1827.96	1789.39	1754.31	1723.39	1694.46	1668.08	1645.26	1625.89
55.0	1624.33	1579.35	1537.25	1498.49	1461.53	1430.53	1400.54	1373.08	1349.36	1329.45
57.5	1336.41	1289.81	1248.23	1208.45	1170.27	1138.27	1107.33	1078.71	1053.79	1033.18
60.0	1050.87	1002.04	959.86	918.54	880.09	845.86	814.84	785.38	758.51	737.09

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CANDELA TABULATION - (Cont.)

62.5	764.61	716.41	671.91	629.67	599.70	594.90	593.58	588.52	583.68	580.90
65.0	503.25	501.64	496.43	494.34	490.30	484.39	482.46	476.74	471.32	467.63
67.5	401.60	397.93	390.79	387.15	381.80	374.99	371.05	365.16	359.20	354.80
70.0	301.56	294.62	286.68	280.75	273.56	266.33	260.40	253.78	247.41	242.16
72.5	202.49	192.63	183.72	175.15	166.24	157.68	150.23	142.62	135.54	129.65
75.0	104.41	92.64	81.52	70.36	59.78	49.60	40.20	31.64	23.90	17.27
77.5	7.72	2.76	2.40	2.06	1.81	1.62	1.44	1.32	1.21	1.11
80.0	1.34	1.07	0.84	0.64	0.49	0.38	0.28	0.20	0.14	0.09
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	4354.11	4354.11	4354.11	4354.11	4354.11
2.5	4306.36	4306.22	4306.18	4306.22	4306.36
5.0	4258.70	4258.40	4258.29	4258.36	4258.61
7.5	4211.01	4210.65	4210.45	4210.52	4210.86
10.0	4163.25	4162.81	4162.66	4162.71	4163.11
12.5	4115.15	4114.93	4115.01	4114.92	4115.36
15.0	4066.41	4067.02	4066.97	4067.15	4067.61
17.5	3969.10	3967.63	3966.46	3965.87	3966.16
20.0	3866.79	3865.45	3864.72	3864.27	3864.70
22.5	3764.39	3763.25	3762.94	3762.64	3763.24
25.0	3661.74	3660.90	3660.93	3661.07	3661.78
27.5	3558.89	3558.39	3558.75	3559.20	3560.33
30.0	3456.00	3455.83	3456.57	3457.44	3458.87
32.5	3301.18	3297.62	3295.60	3295.05	3296.09
35.0	3136.95	3133.77	3132.30	3132.06	3133.30
37.5	2973.06	2969.98	2969.14	2969.07	2970.52
40.0	2807.85	2806.12	2805.45	2806.07	2807.73
42.5	2643.17	2642.52	2641.93	2643.05	2644.95
45.0	2478.89	2477.84	2478.40	2480.02	2482.16
47.5	2204.43	2193.40	2186.63	2183.74	2184.35
50.0	1907.34	1895.96	1889.05	1886.00	1886.53
52.5	1610.40	1598.64	1591.53	1588.28	1588.72
55.0	1313.46	1301.40	1294.33	1290.65	1290.90
57.5	1016.62	1004.24	996.47	992.81	993.09
60.0	719.91	707.16	699.00	695.11	695.28
62.5	578.47	577.37	577.30	578.18	579.71
65.0	465.01	463.23	462.59	463.00	464.14
67.5	351.42	349.19	347.95	347.85	348.57
70.0	238.10	235.26	233.37	232.71	232.99
72.5	124.89	121.30	118.84	117.59	117.42
75.0	11.77	7.45	4.36	2.48	1.85
77.5	1.03	0.97	0.95	0.93	0.93
80.0	0.06	0.03	0.01	0.00	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	1597.07	13.40	13.40
0-30	3418.37	28.70	28.70
0-40	5647.16	47.50	47.50
0-60	9968.83	83.80	83.80
0-80	11855.52	99.70	99.70
0-90	11896.49	100.00	100.00
10-90	11485.83	96.60	96.50
20-40	4050.09	34.10	34.00
20-50	6372.07	53.60	53.60
40-70	5658.95	47.60	47.60
60-80	1886.69	15.90	15.90
70-80	549.42	4.60	4.60
80-90	40.97	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	11896.49	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	410.66
10-20	1186.41
20-30	1821.3
30-40	2228.79
40-50	2321.98
50-60	1999.69
60-70	1337.28
70-80	549.42
80-90	40.97
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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	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	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	34	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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UGR TABLE - CORRECTED

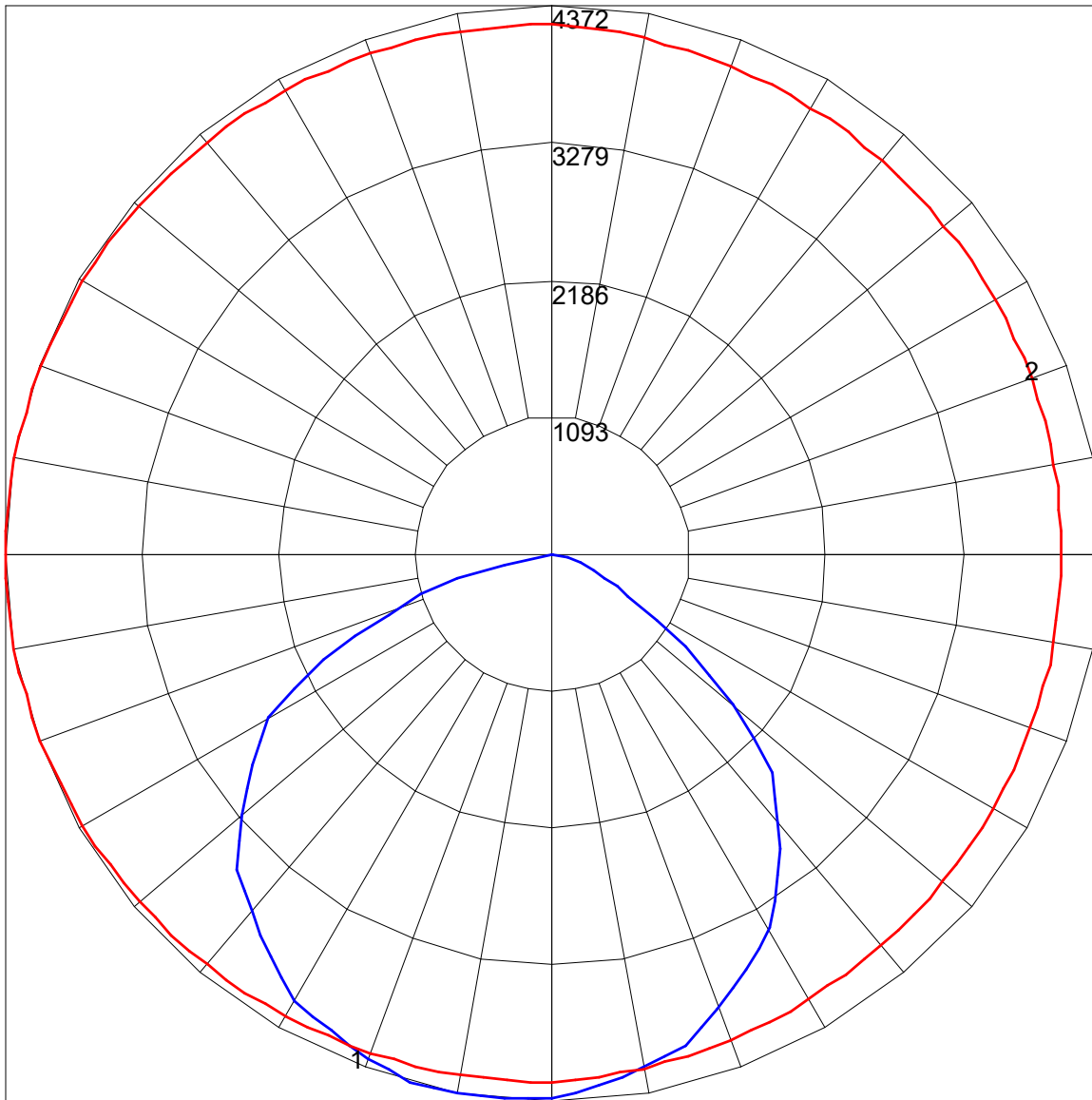
Reflectances

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

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.9	14.3	13.3	14.6	15.0	8.6	8.6	8.6	8.6	8.6
	3H	13.4	14.7	13.8	15.0	15.4	8.6	8.6	8.6	8.6	8.6
	4H	13.4	14.5	13.8	14.9	15.3	8.6	8.6	8.6	8.6	8.6
	6H	13.3	14.4	13.7	14.7	15.1	8.6	8.6	8.6	8.6	8.6
	8H	13.3	14.3	13.7	14.7	15.1	8.6	8.6	8.6	8.6	8.6
	12H	13.2	14.2	13.7	14.6	15.0	8.6	8.6	8.6	8.6	8.6
4H	2H	12.9	14.0	13.3	14.4	14.7	8.6	8.6	8.6	8.6	8.6
	3H	13.4	14.4	13.8	14.8	15.2	8.6	8.6	8.6	8.6	8.6
	4H	13.4	14.2	13.8	14.6	15.0	8.6	8.6	8.6	8.6	8.6
	6H	13.3	14.0	13.7	14.4	14.9	8.6	8.6	8.6	8.6	8.6
	8H	13.2	13.9	13.7	14.3	14.8	8.6	8.6	8.6	8.6	8.6
	12H	13.2	13.8	13.7	14.2	14.7	8.6	8.6	8.6	8.6	8.6
8H	4H	13.2	13.9	13.7	14.3	14.8	8.6	8.6	8.6	8.6	8.6
	6H	13.1	13.7	13.6	14.2	14.6	8.6	8.6	8.6	8.6	8.6
	8H	13.1	13.5	13.6	14.1	14.6	8.6	8.6	8.6	8.6	8.6
	12H	13.0	13.5	13.5	13.9	14.5	8.6	8.6	8.6	8.6	8.6
12H	4H	13.2	13.8	13.7	14.2	14.7	8.6	8.6	8.6	8.6	8.6
	6H	13.1	13.6	13.6	14.0	14.6	8.6	8.6	8.6	8.6	8.6
	8H	13.0	13.5	13.5	13.9	14.5	8.6	8.6	8.6	8.6	8.6

Maximum UGR = 15.4

POLAR GRAPH



Maximum Candela = 4371.74 Located At Horizontal Angle = 180, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)