



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS310HTLOWT50120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB]

[TESTDATE] 07 March 2022

[ISSUEDATE] 2022-03-07 17:17:17

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] HZCAS310HTLOWT50120-277V

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

CHARACTERISTICS

Lumens Per Lamp	11264 (1 lamp)
Total Lamp Lumens	11264
Luminaire Lumens	11190
Total Luminaire Efficiency	99 %
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	78.1261
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
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	10441	11177	14736
55	7693	8765	13330
65	4712	5404	10882
75	463	2409	6965
85	0	0	2014

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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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4338.53	4338.47	4338.61	4338.94	4339.46	4340.17	4341.08	4342.18	4343.46	4344.89
5.0	4238.30	4237.86	4237.81	4238.15	4238.87	4239.92	4241.25	4242.98	4245.10	4247.32
7.5	4140.74	4140.28	4140.37	4140.95	4141.79	4143.09	4144.70	4147.02	4149.58	4152.68
10.0	4043.18	4042.84	4043.22	4043.80	4044.87	4046.46	4048.41	4051.05	4054.15	4057.92
12.5	3940.63	3938.91	3938.08	3937.72	3938.31	3939.68	3942.01	3945.26	3949.47	3954.63
15.0	3838.08	3834.44	3831.79	3829.71	3829.77	3830.62	3832.68	3835.86	3840.21	3845.42
17.5	3717.23	3714.97	3713.55	3713.04	3713.53	3715.14	3717.91	3721.82	3725.94	3732.15
20.0	3596.37	3595.95	3595.80	3596.07	3597.06	3599.05	3602.19	3605.64	3611.57	3617.66
22.5	3470.69	3469.22	3468.06	3468.17	3468.91	3471.10	3474.98	3480.57	3487.90	3496.80
25.0	3345.01	3342.36	3340.28	3338.88	3338.44	3339.70	3342.95	3347.95	3354.62	3362.72
27.5	3221.67	3220.93	3220.58	3220.29	3220.01	3220.29	3221.64	3224.26	3228.30	3232.63
30.0	3098.32	3099.96	3102.00	3103.63	3104.23	3104.26	3105.48	3108.68	3113.33	3118.82
32.5	2914.35	2914.95	2916.95	2920.14	2924.47	2930.90	2940.46	2953.73	2970.54	2990.63
35.0	2730.37	2729.05	2728.68	2729.45	2733.08	2739.54	2748.91	2760.71	2776.64	2794.52
37.5	2546.70	2546.70	2547.82	2549.62	2553.50	2559.52	2567.44	2576.62	2587.44	2598.00
40.0	2363.03	2364.58	2367.68	2371.52	2376.77	2384.25	2392.34	2401.86	2412.58	2423.82
42.5	2178.60	2178.75	2180.69	2184.79	2190.29	2197.22	2205.94	2217.30	2231.54	2248.31
45.0	1994.17	1992.75	1993.23	1996.91	2001.02	2004.86	2010.89	2020.38	2031.82	2045.18
47.5	1794.16	1794.03	1795.82	1800.52	1805.91	1811.07	1817.02	1825.18	1833.14	1841.83
50.0	1594.15	1595.15	1598.13	1603.44	1610.65	1617.65	1624.83	1633.88	1643.40	1653.42
52.5	1393.01	1392.85	1395.11	1399.30	1405.53	1413.20	1422.23	1433.89	1447.47	1462.97
55.0	1191.86	1190.40	1191.80	1194.44	1198.48	1204.24	1212.36	1222.38	1234.33	1247.97
57.5	991.78	991.33	992.99	996.29	1000.00	1005.33	1012.13	1019.80	1027.91	1036.60
60.0	791.70	792.29	794.61	798.97	803.84	810.17	818.35	826.86	837.05	846.22
62.5	664.82	664.10	664.23	664.57	665.05	666.08	667.72	668.92	670.94	670.99
65.0	537.93	536.63	536.38	536.13	536.41	537.84	538.96	541.08	542.37	543.38
67.5	411.72	411.21	411.67	412.31	413.62	415.58	417.40	419.65	420.73	421.29
70.0	285.50	285.82	287.22	289.26	291.96	295.29	299.21	303.35	307.23	310.75
72.5	158.94	159.40	161.07	163.72	167.38	171.91	177.58	183.98	190.65	197.74
75.0	32.38	32.98	34.88	38.09	42.53	48.17	55.00	62.89	71.57	80.96
77.5	16.19	16.22	16.36	16.63	17.00	17.50	18.16	18.95	19.88	20.93
80.0	0.00	0.06	0.24	0.54	0.96	1.49	2.14	2.91	3.81	4.82
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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4346.56	4348.33	4350.29	4352.43	4354.74	4357.23	4359.88	4362.69	4365.67	4368.79
5.0	4250.44	4253.57	4257.10	4261.02	4265.34	4269.98	4274.85	4280.09	4285.70	4291.67
7.5	4156.14	4159.97	4164.32	4169.14	4174.13	4179.59	4185.52	4191.78	4198.11	4207.99
10.0	4062.24	4067.10	4072.47	4078.32	4084.61	4091.36	4098.20	4105.53	4113.24	4120.89
12.5	3960.68	3967.63	3975.44	3984.08	3993.65	4003.66	4011.72	4019.44	4027.59	4035.75
15.0	3851.54	3858.57	3866.23	3875.05	3884.39	3895.02	3906.23	3918.81	3932.03	3946.65
17.5	3738.24	3744.67	3751.42	3758.69	3766.56	3777.73	3789.37	3802.18	3816.03	3830.83
20.0	3624.37	3631.43	3638.50	3645.90	3653.93	3662.80	3672.08	3682.62	3695.42	3709.59
22.5	3507.03	3518.55	3528.30	3536.12	3544.46	3553.32	3562.41	3571.12	3579.96	3588.75
25.0	3372.07	3382.77	3394.78	3408.29	3423.74	3439.44	3453.96	3461.44	3468.88	3476.80
27.5	3237.24	3244.21	3254.73	3266.36	3279.58	3294.66	3311.77	3331.18	3353.23	3361.79
30.0	3124.16	3128.71	3131.76	3133.18	3133.35	3140.30	3155.07	3172.27	3192.64	3216.91

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CANDELA TABULATION - (Cont.)

32.5	3013.46	3018.11	3020.65	3021.04	3018.75	3017.15	3012.38	3005.96	3019.81	3042.95
35.0	2814.53	2836.24	2860.18	2885.50	2907.91	2902.32	2893.91	2884.10	2872.93	2869.73
37.5	2608.73	2628.63	2649.57	2672.71	2697.29	2724.01	2752.73	2760.15	2749.02	2741.23
40.0	2434.13	2443.72	2452.40	2458.12	2471.68	2494.48	2521.32	2553.03	2590.02	2611.68
42.5	2262.21	2272.52	2281.62	2287.48	2289.42	2289.99	2295.62	2322.54	2359.73	2402.47
45.0	2060.83	2078.99	2098.70	2119.02	2121.99	2123.91	2125.83	2129.76	2134.74	2169.26
47.5	1854.29	1867.88	1885.15	1900.43	1917.79	1938.86	1962.26	1965.39	1969.40	1973.31
50.0	1663.98	1673.60	1679.28	1681.45	1695.65	1715.72	1740.13	1769.98	1804.55	1813.67
52.5	1477.52	1488.66	1496.06	1500.82	1505.21	1508.98	1515.44	1544.84	1578.22	1617.52
55.0	1263.84	1281.55	1300.01	1318.66	1330.11	1333.62	1342.81	1349.96	1357.99	1390.46
57.5	1045.77	1060.87	1078.30	1097.19	1118.36	1143.33	1170.28	1184.00	1192.74	1201.05
60.0	855.85	866.22	877.36	887.83	901.64	926.40	953.85	983.78	1017.17	1042.21
62.5	671.32	681.24	696.07	709.12	722.94	737.12	751.14	770.09	803.30	838.42
65.0	545.20	548.46	550.77	553.61	556.58	566.17	583.05	599.91	616.86	630.45
67.5	423.37	424.98	428.67	433.07	437.15	440.96	444.58	448.20	457.22	473.69
70.0	314.85	319.11	322.35	325.35	327.43	328.30	331.90	337.99	342.81	344.94
72.5	205.08	213.63	221.46	227.71	233.12	237.78	241.55	244.51	243.82	239.76
75.0	90.94	101.61	112.29	123.23	133.86	144.30	154.25	164.47	168.39	169.26
77.5	22.11	23.40	24.82	26.40	32.18	46.11	59.75	72.86	84.81	94.60
80.0	5.95	7.20	8.57	10.07	11.70	13.48	15.43	17.52	19.76	22.12
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	2.69	4.88
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

	<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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4371.93	4375.45	4378.99	4382.61	4386.37	4390.23	4394.20	4398.28	4402.44	4406.68
5.0	4297.99	4304.49	4311.47	4318.56	4325.95	4333.63	4341.58	4349.78	4358.22	4366.87
7.5	4213.08	4221.90	4232.05	4242.14	4252.80	4264.01	4275.74	4287.20	4300.54	4313.38
10.0	4128.98	4136.43	4146.02	4154.76	4165.26	4177.83	4192.86	4208.34	4224.64	4241.72
12.5	4043.87	4052.40	4060.74	4069.17	4078.01	4087.04	4095.83	4107.99	4127.98	4146.91
15.0	3957.87	3965.29	3972.27	3978.98	3984.61	3992.01	3998.22	4004.70	4011.35	4029.08
17.5	3846.35	3862.88	3880.10	3889.38	3892.67	3895.18	3897.91	3900.83	3904.19	3908.30
20.0	3724.76	3740.51	3757.15	3774.67	3793.22	3800.78	3800.77	3801.41	3802.97	3805.56
22.5	3598.79	3614.34	3630.97	3648.67	3667.58	3687.95	3708.00	3707.03	3707.00	3708.04
25.0	3485.52	3495.20	3506.27	3523.97	3543.19	3564.40	3587.43	3612.03	3614.03	3613.69
27.5	3371.72	3380.03	3389.72	3398.65	3417.01	3438.74	3462.87	3489.72	3523.22	3520.07
30.0	3245.35	3261.04	3269.38	3278.00	3292.46	3307.39	3330.47	3360.91	3393.13	3423.68
32.5	3071.23	3104.63	3147.68	3152.56	3165.32	3178.37	3196.10	3223.44	3257.44	3295.37
35.0	2888.98	2922.96	2962.53	3004.65	3035.54	3047.29	3061.55	3078.61	3114.17	3154.26
37.5	2736.54	2735.78	2769.53	2818.80	2871.16	2913.42	2926.06	2941.62	2963.16	3004.16
40.0	2605.10	2600.34	2597.50	2622.17	2676.42	2737.39	2788.54	2798.27	2804.75	2826.01
42.5	2450.95	2465.53	2460.70	2459.56	2473.38	2534.86	2604.05	2649.29	2638.62	2626.88
45.0	2217.11	2270.74	2324.08	2319.55	2313.63	2313.33	2380.50	2452.84	2477.78	2462.70
47.5	1986.59	2037.39	2098.11	2165.47	2172.54	2157.45	2146.54	2219.43	2302.88	2307.53
50.0	1818.71	1830.54	1860.29	1926.69	2000.81	2020.37	1996.34	1995.99	2076.70	2153.47
52.5	1661.33	1669.23	1675.32	1680.76	1753.35	1833.53	1858.69	1824.24	1835.33	1933.88
55.0	1433.16	1481.89	1515.55	1518.67	1519.03	1575.33	1657.70	1676.38	1636.83	1690.03
57.5	1206.64	1247.27	1299.82	1358.27	1354.33	1348.04	1394.21	1480.93	1489.45	1452.99
60.0	1048.81	1053.74	1061.11	1116.08	1180.69	1200.17	1185.82	1224.50	1319.28	1303.58
62.5	875.30	902.46	905.25	915.29	954.30	1015.08	1048.40	1022.84	1062.53	1170.34
65.0	659.82	699.12	740.39	771.97	779.24	782.79	843.19	890.66	856.24	912.32
67.5	488.11	504.15	538.45	587.22	637.02	638.96	619.04	670.76	732.24	696.95

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CANDELA TABULATION - (Cont.)

70.0	344.08	356.35	377.97	396.15	428.70	476.72	503.16	484.58	517.09	585.38
72.5	243.96	249.04	252.25	258.38	275.62	289.39	327.84	375.89	364.47	373.62
75.0	169.54	168.37	164.42	168.72	171.61	173.70	190.13	202.44	250.10	258.89
77.5	103.33	110.89	111.70	109.56	105.53	103.28	107.63	111.27	123.86	145.39
80.0	29.51	41.66	51.78	59.55	65.33	65.75	62.72	58.55	63.29	68.32
82.5	7.17	9.53	11.86	14.08	16.17	22.91	29.09	33.63	34.49	32.89
85.0	0.00	0.00	0.00	0.00	0.00	2.15	4.27	6.03	7.47	11.25
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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4410.99	4415.37	4419.80	4424.28	4428.79	4433.32	4437.88	4438.30	4438.72	4439.16
5.0	4375.71	4384.72	4393.55	4402.99	4412.49	4422.03	4431.58	4432.02	4432.46	4432.90
7.5	4326.64	4340.28	4354.28	4368.59	4383.17	4397.99	4413.00	4412.99	4413.16	4413.49
10.0	4259.53	4278.01	4297.11	4315.29	4336.28	4357.35	4378.46	4377.48	4376.50	4375.52
12.5	4171.30	4194.19	4218.20	4243.23	4269.20	4296.01	4323.58	4320.71	4318.58	4317.26
15.0	4054.82	4082.06	4110.75	4140.83	4170.00	4204.37	4238.82	4232.13	4225.45	4224.25
17.5	3923.79	3953.80	3985.24	4018.08	4052.38	4088.19	4125.57	4117.44	4110.95	4106.11
20.0	3809.30	3829.36	3862.58	3897.36	3930.41	3970.94	4011.57	4001.47	3991.39	3989.21
22.5	3710.31	3711.60	3745.59	3782.77	3821.75	3862.54	3905.19	3895.68	3888.00	3882.08
25.0	3614.90	3617.66	3632.95	3672.78	3714.71	3757.74	3804.78	3793.91	3787.04	3781.18
27.5	3519.10	3519.71	3521.98	3560.72	3607.43	3656.78	3708.57	3695.90	3685.64	3677.99
30.0	3419.39	3416.66	3415.80	3440.48	3492.87	3547.11	3606.89	3588.83	3576.36	3565.69
32.5	3315.38	3308.73	3301.92	3311.08	3368.98	3430.52	3495.50	3474.71	3457.36	3443.66
35.0	3198.64	3197.61	3188.96	3183.05	3237.85	3303.54	3376.90	3350.25	3331.29	3323.53
37.5	3051.93	3083.06	3067.88	3054.79	3094.66	3170.77	3252.02	3222.87	3198.32	3208.56
40.0	2879.22	2944.06	2933.42	2913.21	2936.86	3023.50	3121.25	3084.60	3058.19	3089.52
42.5	2676.35	2749.49	2782.93	2760.51	2764.49	2869.59	2982.74	2937.60	2900.45	2961.72
45.0	2471.02	2550.09	2628.65	2592.61	2562.30	2679.99	2814.55	2746.92	2696.97	2807.94
47.5	2295.06	2346.94	2433.28	2424.53	2387.79	2484.44	2614.15	2549.60	2520.53	2637.01
50.0	2137.32	2141.57	2228.44	2267.12	2220.69	2289.45	2428.63	2354.97	2355.07	2476.93
52.5	1978.03	1958.81	2024.81	2110.69	2053.83	2103.52	2248.11	2170.35	2191.20	2323.72
55.0	1806.48	1793.02	1807.26	1921.90	1882.99	1898.98	2065.23	1972.05	2027.86	2138.89
57.5	1559.36	1624.79	1569.42	1690.70	1701.36	1691.59	1878.81	1770.07	1860.79	1927.63
60.0	1297.17	1430.37	1395.48	1449.45	1514.53	1455.59	1667.75	1528.56	1681.25	1688.29
62.5	1107.98	1171.55	1235.95	1210.35	1337.95	1241.20	1449.22	1312.81	1496.92	1432.39
65.0	982.65	917.84	1067.38	1005.39	1138.33	1050.08	1242.21	1118.11	1292.20	1220.28
67.5	774.93	789.72	816.81	867.52	919.82	881.81	1044.64	948.51	1057.07	1077.18
70.0	535.99	646.98	593.25	736.09	691.87	716.69	852.79	787.24	831.22	949.57
72.5	439.31	407.31	489.44	503.05	483.27	562.31	661.56	633.09	608.47	692.87
75.0	246.67	310.10	313.73	308.28	376.02	431.19	486.96	496.10	496.91	470.59
77.5	174.41	150.63	191.91	237.20	245.90	275.57	331.72	327.62	347.80	404.93
80.0	74.11	101.58	82.46	99.42	106.52	119.08	195.46	148.45	169.26	194.42
82.5	36.74	42.69	50.70	44.70	55.83	71.71	100.00	94.17	89.58	89.96
85.0	15.90	18.82	23.36	24.45	21.68	28.28	47.42	35.62	33.55	46.87
87.5	0.00	1.31	3.16	8.09	8.05	5.14	20.69	7.18	17.53	29.47
90.0	0.00	0.00	0.00	0.00	0.00	0.00	3.65	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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4439.59	4440.04	4440.48	4440.94	4441.39	4441.86	4442.32	4442.79	4443.27	4443.74

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CANDELA TABULATION - (Cont.)

5.0	4433.33	4434.30	4435.00	4435.75	4436.57	4437.44	4438.39	4439.40	4440.48	4441.63
7.5	4414.01	4414.72	4415.63	4416.76	4418.10	4418.71	4420.96	4422.66	4424.57	4426.71
10.0	4377.23	4377.85	4378.89	4380.36	4382.28	4384.66	4387.51	4390.39	4393.96	4401.77
12.5	4316.82	4317.34	4318.88	4318.54	4323.69	4327.36	4338.80	4353.17	4366.41	4379.09
15.0	4222.09	4221.43	4222.34	4224.90	4236.60	4260.59	4284.14	4307.41	4328.62	4350.38
17.5	4102.95	4101.47	4101.80	4119.91	4151.91	4184.83	4218.03	4251.10	4284.20	4315.34
20.0	3985.29	3983.12	3996.70	4030.18	4065.91	4103.54	4142.99	4183.83	4213.38	4226.22
22.5	3877.89	3876.98	3911.90	3946.27	3982.60	4021.67	4064.90	4076.32	4089.06	4103.68
25.0	3777.33	3799.08	3833.83	3870.14	3908.05	3943.10	3952.95	3963.42	3976.07	3989.89
27.5	3678.49	3717.00	3756.96	3798.24	3837.42	3843.94	3853.15	3864.71	3878.31	3894.54
30.0	3584.04	3629.05	3675.75	3723.69	3732.65	3739.35	3747.53	3762.52	3788.74	3812.82
32.5	3481.02	3535.09	3588.81	3612.58	3616.09	3623.62	3636.04	3667.90	3700.17	3730.24
35.0	3379.00	3437.25	3487.00	3486.35	3490.02	3498.26	3535.82	3574.01	3612.34	3626.16
37.5	3271.12	3336.61	3354.17	3352.91	3356.85	3393.39	3437.25	3481.91	3490.05	3483.58
40.0	3160.33	3221.50	3214.16	3212.88	3240.90	3290.41	3341.08	3346.14	3337.47	3333.07
42.5	3045.31	3074.43	3065.99	3075.04	3130.77	3188.14	3197.58	3185.06	3178.64	3223.34
45.0	2922.36	2907.16	2898.01	2950.38	3017.79	3040.48	3021.35	3013.22	3075.46	3143.53
47.5	2722.23	2693.66	2710.57	2805.55	2868.18	2828.52	2808.33	2899.43	2988.40	3041.93
50.0	2504.44	2478.41	2551.18	2650.94	2632.06	2598.02	2675.59	2790.92	2843.77	2812.92
52.5	2300.01	2301.00	2404.14	2430.58	2389.37	2444.80	2556.96	2603.64	2576.01	2553.55
55.0	2090.33	2151.54	2249.41	2194.96	2212.55	2332.36	2373.83	2342.59	2342.74	2424.82
57.5	1884.18	2008.17	2009.47	1970.63	2099.79	2160.45	2116.46	2133.50	2218.17	2302.38
60.0	1713.55	1830.78	1747.65	1850.80	1950.74	1887.45	1911.96	2018.26	2071.54	2061.08
62.5	1547.86	1547.96	1553.08	1735.25	1656.11	1675.74	1792.00	1823.50	1819.80	1853.30
65.0	1371.05	1263.50	1439.31	1419.21	1421.56	1554.99	1556.68	1538.30	1623.05	1705.60
67.5	1097.21	1147.18	1205.05	1174.01	1313.92	1300.39	1297.98	1392.60	1472.66	1462.90
70.0	854.53	1009.08	931.20	1083.11	1059.08	1079.77	1179.53	1193.38	1181.59	1211.86
72.5	761.41	706.85	854.79	828.64	880.31	951.54	925.13	938.63	1018.19	1090.07
75.0	533.29	613.49	583.22	678.95	707.65	666.78	751.23	834.56	843.46	847.71
77.5	390.38	378.29	486.83	461.49	499.21	574.86	578.67	580.99	619.73	673.71
80.0	204.67	296.49	262.91	350.02	355.53	352.75	402.44	458.42	494.29	509.60
82.5	130.79	157.98	170.37	182.89	232.83	256.48	261.19	271.00	275.03	260.24
85.0	62.69	77.72	97.77	94.27	87.25	77.27	59.76	32.89	0.00	0.00
87.5	24.45	10.92	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									
	125.0	127.5	130.0	132.5	135.0	137.5	140.0	142.5	145.0	147.5
0.0	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4444.22	4444.67	4445.02	4445.53	4445.94	4446.35	4446.75	4447.14	4447.53	4447.90
5.0	4442.85	4443.92	4445.16	4446.31	4447.49	4448.72	4450.00	4451.31	4452.42	4453.47
7.5	4429.07	4430.97	4433.87	4436.95	4441.06	4445.10	4448.63	4451.92	4455.12	4458.21
10.0	4409.54	4415.97	4424.06	4430.96	4437.73	4443.84	4449.67	4455.34	4460.23	4464.78
12.5	4391.49	4403.21	4413.92	4424.30	4433.94	4442.90	4451.49	4459.36	4463.87	4468.02
15.0	4369.99	4388.06	4404.17	4415.18	4421.68	4428.87	4435.64	4442.72	4449.33	4456.06
17.5	4337.40	4347.92	4358.93	4370.93	4382.85	4395.00	4407.01	4418.10	4428.08	4438.88
20.0	4241.12	4257.84	4276.50	4296.10	4317.52	4337.83	4350.64	4360.57	4366.57	4370.98
22.5	4121.00	4140.96	4162.88	4193.13	4220.89	4245.22	4265.61	4280.95	4292.24	4300.09
25.0	4005.55	4033.45	4064.12	4097.10	4129.95	4160.64	4187.38	4197.56	4201.33	4201.88
27.5	3921.36	3947.95	3978.03	4007.43	4041.00	4049.30	4057.55	4065.44	4072.74	4079.53
30.0	3841.48	3868.92	3887.65	3890.93	3897.01	3905.14	3914.87	3925.71	3945.79	3973.34
32.5	3761.55	3757.68	3757.22	3759.88	3765.14	3776.68	3810.44	3844.56	3875.25	3904.83
35.0	3624.18	3622.41	3624.04	3638.90	3673.95	3712.98	3748.87	3784.61	3818.60	3824.44
37.5	3477.18	3483.06	3526.26	3569.26	3611.60	3652.33	3671.34	3670.77	3673.29	3678.04
40.0	3357.41	3407.26	3455.43	3502.33	3517.04	3513.42	3512.68	3514.74	3519.30	3533.49

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CANDELA TABULATION - (Cont.)

42.5	3280.45	3335.85	3363.60	3353.24	3348.83	3348.22	3352.44	3383.76	3413.44	3442.01
45.0	3208.20	3192.67	3177.30	3171.70	3183.34	3222.79	3258.21	3291.38	3320.73	3349.57
47.5	3012.37	2990.84	2980.92	3026.97	3081.97	3128.51	3167.44	3178.81	3189.33	3201.53
50.0	2792.04	2815.21	2861.69	2920.01	2975.30	2988.23	3004.50	3021.57	3037.27	3052.82
52.5	2630.58	2693.99	2747.52	2751.96	2763.77	2787.46	2819.50	2861.17	2883.86	2901.62
55.0	2507.19	2533.84	2531.56	2536.94	2556.64	2610.24	2665.52	2704.10	2732.41	2744.48
57.5	2299.67	2300.55	2312.52	2363.54	2412.92	2465.96	2512.16	2521.81	2524.14	2529.45
60.0	2066.10	2111.76	2164.99	2219.90	2243.38	2254.42	2270.23	2286.57	2302.02	2329.71
62.5	1910.84	1965.52	1981.40	1984.34	1994.83	2012.64	2059.00	2105.47	2146.07	2179.42
65.0	1727.44	1720.08	1718.79	1738.27	1804.16	1867.66	1921.66	1965.25	1988.73	1995.30
67.5	1454.78	1482.82	1542.88	1600.55	1668.51	1705.93	1723.35	1736.28	1747.24	1754.29
70.0	1281.26	1345.48	1388.79	1402.54	1421.61	1443.80	1467.13	1498.35	1528.04	1549.18
72.5	1109.23	1117.62	1127.29	1144.37	1194.49	1243.14	1288.54	1327.42	1352.29	1369.19
75.0	852.39	901.40	948.59	996.43	1044.30	1087.76	1111.26	1132.02	1147.40	1154.65
77.5	721.93	765.80	785.15	806.29	830.65	856.84	880.02	900.89	922.17	903.95
80.0	525.87	542.17	558.82	555.68	531.30	503.73	468.97	429.39	388.34	344.27
82.5	238.58	206.57	166.73	121.02	71.50	17.92	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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4448.26	4448.61	4448.95	4449.22	4449.48	4449.70	4449.90	4450.08	4450.24	4450.38
5.0	4454.53	4455.60	4456.67	4457.42	4458.38	4459.13	4459.86	4460.56	4461.45	4461.73
7.5	4460.70	4463.04	4465.28	4467.21	4468.78	4470.27	4471.48	4472.50	4473.33	4474.05
10.0	4469.00	4472.46	4475.63	4478.31	4480.49	4482.47	4483.93	4485.24	4486.17	4487.28
12.5	4472.15	4476.01	4479.68	4483.09	4486.21	4489.03	4491.54	4493.66	4495.48	4496.84
15.0	4462.31	4468.57	4474.51	4480.30	4485.97	4491.05	4495.89	4500.00	4503.33	4505.98
17.5	4442.03	4442.58	4443.41	4444.50	4445.07	4447.47	4448.79	4450.01	4451.04	4451.49
20.0	4374.17	4376.48	4378.57	4380.97	4383.72	4385.75	4389.21	4391.07	4392.48	4393.53
22.5	4305.40	4306.77	4305.37	4305.39	4306.75	4309.21	4312.50	4316.34	4320.41	4324.44
25.0	4202.70	4204.16	4206.54	4210.01	4214.59	4220.17	4226.82	4234.73	4243.55	4252.36
27.5	4086.33	4093.38	4105.14	4119.47	4132.97	4145.67	4158.97	4172.22	4185.12	4196.64
30.0	3996.88	4017.30	4035.51	4052.37	4068.16	4083.37	4098.92	4115.02	4130.01	4142.89
32.5	3928.52	3949.00	3967.44	3971.81	3977.56	3984.28	3992.15	4001.72	4011.99	4022.19
35.0	3826.31	3828.54	3832.28	3837.48	3844.22	3851.03	3861.39	3871.54	3882.49	3894.37
37.5	3683.95	3690.39	3694.79	3708.94	3723.73	3737.94	3752.00	3765.18	3777.61	3788.78
40.0	3559.56	3582.44	3600.99	3616.53	3630.76	3644.18	3656.90	3668.70	3679.05	3687.17
42.5	3469.20	3492.73	3511.17	3522.36	3529.53	3537.08	3545.20	3553.38	3561.77	3569.13
45.0	3361.21	3373.35	3384.11	3394.00	3403.49	3412.73	3421.82	3430.86	3440.35	3448.89
47.5	3216.02	3229.85	3249.33	3262.24	3270.29	3277.03	3283.00	3288.80	3294.96	3300.22
50.0	3068.62	3085.33	3100.68	3112.40	3121.17	3128.40	3134.05	3139.75	3145.22	3149.10
52.5	2919.25	2937.19	2952.79	2959.07	2961.45	2965.14	2969.13	2973.55	2978.01	2983.58
55.0	2746.92	2752.98	2760.93	2768.39	2775.20	2783.19	2792.44	2800.36	2808.19	2816.64
57.5	2536.47	2546.26	2561.71	2582.67	2600.73	2617.35	2632.79	2644.61	2654.63	2664.12
60.0	2357.82	2385.18	2411.50	2433.56	2451.71	2469.54	2484.35	2495.45	2504.97	2513.48
62.5	2209.02	2238.11	2261.33	2267.95	2273.52	2281.39	2290.05	2295.98	2301.38	2307.21
65.0	2002.90	2015.21	2027.42	2039.31	2049.28	2058.36	2070.03	2080.38	2087.99	2095.66
67.5	1765.75	1776.44	1801.20	1823.28	1840.82	1855.22	1869.92	1882.02	1890.42	1897.37
70.0	1572.37	1595.36	1616.95	1636.76	1651.99	1666.09	1679.40	1689.02	1695.62	1701.49
72.5	1392.32	1407.16	1421.40	1435.37	1447.02	1458.15	1470.32	1479.06	1487.08	1493.32
75.0	1164.41	1181.44	1197.81	1213.17	1228.01	1240.81	1254.56	1266.86	1276.86	1284.27
77.5	860.60	833.15	805.33	777.52	753.24	729.30	708.61	691.06	675.91	663.37

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CANDELA TABULATION - (Cont.)

80.0	296.47	255.72	216.31	178.86	144.05	112.02	83.49	58.76	37.99	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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4450.50	4450.60	4450.68	4450.63	4450.57	4450.48	4450.37	4450.23	4450.07	4449.89
5.0	4462.02	4462.31	4462.60	4462.73	4462.86	4462.98	4463.11	4462.59	4462.24	4461.85
7.5	4474.41	4474.68	4474.89	4474.69	4474.44	4474.13	4473.46	4472.73	4471.97	4470.92
10.0	4487.45	4487.31	4487.17	4486.50	4485.83	4484.78	4482.96	4481.31	4479.37	4477.42
12.5	4497.97	4498.60	4499.07	4498.81	4498.46	4497.14	4495.60	4493.46	4490.89	4487.79
15.0	4508.34	4509.77	4510.97	4511.50	4511.67	4510.71	4509.07	4506.86	4503.86	4500.17
17.5	4451.87	4452.28	4452.78	4452.91	4452.98	4453.07	4453.27	4453.38	4453.98	4455.17
20.0	4392.65	4394.22	4394.59	4393.34	4390.64	4390.57	4388.74	4387.12	4386.55	4384.90
22.5	4327.74	4331.27	4333.84	4335.23	4335.54	4334.68	4332.72	4329.86	4326.30	4322.12
25.0	4258.22	4266.95	4273.08	4276.52	4277.66	4280.03	4278.39	4274.98	4270.42	4264.98
27.5	4205.88	4212.64	4217.04	4218.62	4217.69	4214.48	4209.61	4203.72	4197.32	4190.89
30.0	4150.36	4157.70	4161.00	4159.06	4152.06	4146.24	4136.51	4124.99	4112.35	4099.59
32.5	4030.64	4037.31	4042.12	4043.95	4043.40	4040.45	4034.14	4025.63	4014.70	4001.18
35.0	3905.79	3914.24	3923.24	3927.07	3931.74	3932.02	3928.98	3923.08	3913.96	3902.38
37.5	3798.20	3804.52	3808.95	3811.32	3812.61	3810.68	3807.85	3801.80	3796.68	3788.44
40.0	3692.29	3693.03	3694.66	3692.80	3691.92	3687.33	3680.69	3673.17	3664.70	3656.29
42.5	3574.06	3576.84	3578.05	3578.35	3578.12	3576.58	3570.68	3562.36	3553.07	3539.80
45.0	3455.18	3458.02	3461.44	3461.54	3465.40	3467.36	3466.15	3460.38	3452.84	3443.22
47.5	3303.48	3304.93	3305.41	3306.29	3307.84	3309.17	3309.31	3309.02	3309.49	3310.54
50.0	3150.64	3148.56	3149.38	3147.53	3147.67	3144.75	3141.19	3137.58	3134.36	3131.14
52.5	2988.01	2990.81	2992.53	2993.98	2993.96	2991.20	2987.12	2981.52	2974.36	2964.96
55.0	2824.74	2829.47	2835.67	2837.27	2841.05	2839.09	2836.46	2831.69	2825.09	2816.02
57.5	2671.95	2677.34	2680.41	2680.99	2678.72	2675.38	2671.00	2665.39	2658.86	2651.19
60.0	2514.19	2522.30	2525.16	2521.40	2509.99	2510.15	2502.04	2492.79	2481.40	2470.12
62.5	2312.67	2317.01	2320.13	2321.08	2318.46	2314.96	2310.04	2303.99	2293.28	2280.72
65.0	2096.15	2107.98	2115.09	2117.34	2113.03	2117.29	2114.97	2108.84	2101.03	2090.48
67.5	1904.05	1908.75	1912.52	1913.63	1912.05	1908.48	1903.98	1897.78	1890.73	1882.18
70.0	1700.02	1706.51	1709.95	1706.70	1698.16	1698.93	1690.92	1681.91	1673.26	1660.72
72.5	1498.35	1501.81	1504.83	1505.52	1503.58	1499.11	1492.17	1482.69	1471.47	1458.33
75.0	1286.31	1294.56	1299.70	1301.85	1299.28	1300.53	1295.58	1288.02	1277.32	1266.47
77.5	654.95	650.23	649.85	653.91	661.63	672.18	686.65	703.98	724.72	749.88
80.0	0.00	0.00	0.00	0.00	0.00	0.00	38.60	59.86	85.42	115.11
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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4449.68	4449.44	4449.20	4448.75	4448.35	4447.93	4447.49	4447.02	4446.54	4446.03
5.0	4461.41	4460.91	4460.22	4459.38	4458.49	4457.54	4456.53	4455.55	4454.09	4452.72
7.5	4469.79	4468.65	4467.34	4465.88	4464.45	4463.12	4461.36	4459.75	4458.19	4456.91
10.0	4475.06	4472.72	4470.19	4467.51	4464.91	4461.96	4459.09	4456.76	4453.14	4450.17
12.5	4484.26	4480.26	4475.83	4470.95	4465.62	4459.76	4453.47	4446.65	4441.89	4436.63

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CANDELA TABULATION - (Cont.)

15.0	4496.45	4491.23	4485.89	4479.97	4473.19	4465.89	4457.32	4449.02	4437.88	4428.09
17.5	4456.97	4459.36	4462.65	4466.94	4471.93	4473.59	4463.22	4451.02	4437.91	4423.51
20.0	4384.24	4384.15	4384.77	4387.47	4388.59	4392.01	4396.78	4403.23	4410.31	4419.32
22.5	4317.27	4311.61	4305.14	4298.18	4295.69	4295.96	4298.51	4302.62	4308.24	4315.50
25.0	4258.43	4250.67	4241.99	4232.88	4223.87	4215.30	4207.50	4196.60	4190.04	4189.41
27.5	4185.95	4178.52	4173.43	4165.79	4154.44	4143.49	4131.47	4116.02	4094.84	4067.18
30.0	4087.29	4076.98	4067.27	4060.55	4056.10	4053.62	4052.45	4040.66	4013.78	3980.24
32.5	3986.34	3971.66	3957.96	3948.43	3940.38	3933.17	3926.33	3922.25	3910.04	3899.87
35.0	3888.79	3874.77	3861.90	3847.31	3831.50	3812.86	3795.47	3786.21	3775.93	3764.76
37.5	3781.65	3774.74	3766.89	3752.72	3736.01	3719.16	3695.66	3674.83	3654.45	3635.36
40.0	3648.08	3640.56	3633.80	3627.52	3621.53	3615.91	3600.42	3578.90	3553.33	3527.71
42.5	3525.95	3509.93	3495.21	3484.42	3474.51	3466.30	3460.33	3456.62	3455.11	3428.89
45.0	3431.22	3415.65	3396.00	3374.06	3346.47	3318.59	3305.51	3298.45	3295.18	3292.11
47.5	3312.46	3315.19	3305.58	3282.10	3255.19	3225.99	3195.38	3162.25	3130.36	3123.44
50.0	3128.18	3126.91	3124.25	3123.71	3125.17	3129.65	3106.02	3070.19	3032.73	2987.45
52.5	2952.95	2938.81	2927.46	2922.77	2920.03	2920.20	2926.41	2933.02	2941.82	2891.86
55.0	2803.99	2789.62	2773.53	2755.79	2736.10	2715.71	2708.67	2709.85	2710.98	2709.72
57.5	2642.96	2635.17	2626.08	2608.12	2587.79	2565.53	2542.42	2514.82	2473.59	2454.42
60.0	2456.10	2444.44	2433.14	2421.95	2411.14	2402.27	2392.05	2364.15	2324.50	2276.45
62.5	2267.49	2253.56	2238.11	2220.16	2203.15	2189.49	2179.40	2170.54	2158.57	2137.41
65.0	2078.88	2064.87	2050.08	2031.67	2009.99	1988.04	1965.68	1946.63	1931.37	1914.28
67.5	1873.13	1865.27	1857.59	1846.40	1828.50	1807.13	1784.79	1759.83	1731.27	1692.47
70.0	1650.19	1641.22	1628.90	1617.58	1606.38	1594.09	1584.04	1575.17	1556.20	1520.96
72.5	1444.88	1429.40	1412.29	1393.37	1372.00	1357.68	1344.25	1331.40	1318.93	1304.05
75.0	1252.78	1239.46	1225.36	1206.91	1187.99	1165.55	1141.48	1116.41	1087.21	1051.26
77.5	776.04	806.93	839.57	874.96	911.46	945.86	962.43	937.61	911.46	882.32
80.0	148.47	185.56	225.65	268.95	313.97	359.64	406.46	453.62	500.05	545.68
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.51
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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4445.51	4444.97	4444.41	4443.83	4443.32	4442.52	4441.84	4441.16	4440.48	4439.79
5.0	4451.29	4449.83	4448.32	4446.78	4445.54	4443.29	4441.49	4439.68	4437.85	4436.02
7.5	4454.86	4453.18	4450.71	4447.73	4444.47	4441.07	4437.62	4434.14	4430.64	4427.13
10.0	4447.73	4444.16	4441.24	4438.52	4435.73	4433.07	4430.66	4425.34	4420.16	4413.52
12.5	4431.72	4426.84	4422.03	4417.63	4413.32	4409.27	4405.67	4403.41	4399.31	4394.76
15.0	4415.19	4403.10	4392.88	4386.45	4380.18	4374.36	4369.31	4364.25	4360.02	4356.71
17.5	4408.28	4392.19	4374.76	4356.25	4335.60	4320.76	4315.13	4302.70	4295.99	4290.47
20.0	4401.45	4379.90	4355.86	4328.01	4296.23	4260.65	4221.77	4197.17	4189.26	4176.83
22.5	4323.62	4333.59	4343.77	4299.34	4253.72	4204.04	4151.86	4099.30	4049.79	4041.16
25.0	4190.01	4192.38	4195.73	4199.32	4202.77	4139.36	4078.24	4020.80	3965.85	3915.05
27.5	4037.00	4022.35	4020.58	4020.41	4021.30	4023.27	4001.51	3942.68	3887.96	3836.06
30.0	3943.06	3904.92	3867.62	3854.98	3856.79	3860.53	3867.15	3873.81	3814.48	3759.50
32.5	3865.40	3825.72	3786.69	3748.08	3710.05	3711.42	3717.87	3727.28	3740.02	3684.57
35.0	3753.91	3745.60	3715.80	3673.96	3630.51	3588.09	3571.82	3580.72	3593.41	3610.07
37.5	3623.06	3612.33	3603.72	3597.87	3553.11	3506.71	3460.18	3431.90	3443.92	3460.88
40.0	3502.93	3480.49	3469.29	3460.89	3455.86	3428.51	3375.86	3322.54	3287.64	3304.31
42.5	3400.04	3370.20	3339.10	3319.67	3310.96	3306.99	3293.25	3232.07	3170.43	3138.00
45.0	3293.77	3268.05	3231.56	3193.29	3158.25	3150.23	3148.33	3143.27	3074.01	3004.38
47.5	3116.94	3115.08	3120.03	3076.53	3033.32	2993.26	2980.21	2980.07	2979.42	2896.26
50.0	2928.87	2912.31	2911.03	2919.31	2910.44	2863.94	2809.45	2776.14	2782.84	2780.59

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CANDELA TABULATION - (Cont.)

52.5	2825.86	2756.36	2692.44	2699.86	2712.96	2736.97	2665.51	2582.56	2549.94	2568.98
55.0	2705.37	2646.61	2579.09	2513.36	2474.51	2487.54	2505.21	2445.31	2359.78	2328.90
57.5	2448.65	2447.06	2452.70	2395.11	2318.86	2239.51	2247.99	2271.18	2227.15	2136.08
60.0	2226.38	2190.27	2190.42	2200.33	2208.72	2126.11	2037.50	2011.80	2039.92	2007.11
62.5	2087.33	2028.42	1967.34	1931.74	1945.59	1969.38	1930.91	1827.89	1763.29	1809.05
65.0	1894.59	1876.14	1826.97	1766.54	1705.74	1685.08	1709.34	1723.12	1596.89	1514.78
67.5	1645.15	1621.86	1609.23	1599.38	1566.23	1500.63	1419.08	1427.80	1455.46	1366.20
70.0	1470.62	1417.73	1365.52	1337.53	1333.33	1335.32	1292.82	1209.88	1157.48	1193.77
72.5	1283.11	1262.44	1211.52	1159.57	1107.81	1065.42	1070.58	1077.08	1016.79	917.39
75.0	1033.39	1010.40	992.90	980.37	968.05	919.52	870.63	816.81	822.98	828.60
77.5	848.61	810.21	769.25	733.95	727.54	718.88	715.46	693.93	625.06	545.58
80.0	587.53	620.75	619.37	585.63	558.57	524.01	483.54	465.31	461.02	456.42
82.5	79.25	135.53	187.62	235.75	284.24	321.51	345.46	323.82	288.48	251.72
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.23	81.83	109.89
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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4439.10	4438.41	4437.72	4437.04	4436.37	4435.70	4435.04	4434.40	4433.77	4429.56
5.0	4434.19	4432.37	4430.57	4428.78	4427.03	4425.31	4423.64	4422.02	4420.45	4412.36
7.5	4423.99	4419.92	4416.32	4412.79	4409.35	4406.00	4402.76	4399.66	4396.70	4385.05
10.0	4407.54	4401.62	4395.78	4390.05	4384.46	4379.04	4373.81	4368.79	4364.02	4348.97
12.5	4385.87	4377.05	4369.39	4359.30	4350.62	4342.21	4334.14	4326.46	4319.25	4301.33
15.0	4355.67	4344.06	4329.07	4313.83	4298.53	4283.41	4268.70	4254.63	4241.46	4224.01
17.5	4285.76	4283.23	4270.64	4246.10	4214.99	4188.14	4162.51	4138.26	4115.60	4102.65
20.0	4170.10	4167.86	4163.75	4143.72	4109.97	4078.14	4048.23	4020.23	3994.12	3982.21
22.5	4038.46	4031.00	4029.93	4031.32	4000.46	3967.08	3935.92	3906.94	3880.06	3868.96
25.0	3905.02	3902.05	3905.88	3903.68	3894.63	3859.60	3826.85	3796.38	3768.18	3758.07
27.5	3786.72	3780.36	3780.35	3782.99	3790.48	3756.99	3722.12	3689.66	3659.62	3649.89
30.0	3707.83	3661.62	3661.87	3665.24	3671.83	3657.16	3619.34	3584.10	3551.52	3542.42
32.5	3627.06	3571.45	3541.28	3545.86	3554.23	3557.10	3514.61	3474.93	3438.28	3430.72
35.0	3546.82	3485.31	3425.42	3423.43	3430.74	3445.32	3404.94	3358.87	3316.21	3311.35
37.5	3466.63	3397.08	3329.71	3285.41	3297.66	3315.06	3287.93	3234.30	3184.77	3183.56
40.0	3327.29	3307.14	3229.08	3153.10	3154.61	3174.75	3164.37	3102.79	3045.81	3047.89
42.5	3161.09	3191.07	3128.22	3043.75	3005.32	3030.37	3035.68	2965.30	2900.07	2901.54
45.0	2984.46	3016.28	3033.44	2931.77	2840.31	2866.06	2903.96	2810.77	2723.31	2738.04
47.5	2809.09	2820.21	2874.09	2809.56	2672.90	2664.80	2715.10	2631.99	2530.75	2556.34
50.0	2674.63	2581.70	2638.80	2661.51	2516.49	2454.24	2507.43	2450.52	2347.67	2378.14
52.5	2538.50	2421.35	2393.97	2458.66	2368.13	2249.22	2308.04	2275.75	2165.57	2203.90
55.0	2354.76	2290.65	2172.35	2223.32	2225.71	2075.68	2107.86	2101.53	1981.28	2029.02
57.5	2120.84	2156.65	2041.81	1986.36	2070.96	1925.31	1902.83	1925.88	1787.40	1847.19
60.0	1910.86	1918.00	1919.46	1769.01	1828.07	1770.21	1673.87	1741.28	1568.99	1654.26
62.5	1772.49	1651.63	1707.49	1623.74	1554.21	1610.58	1435.95	1539.47	1358.94	1455.67
65.0	1572.66	1509.35	1427.64	1491.29	1302.12	1406.81	1231.90	1326.28	1157.36	1246.84
67.5	1264.89	1331.73	1240.45	1216.35	1177.31	1141.11	1080.74	1106.83	969.41	1032.23
70.0	1143.15	1029.03	1110.24	982.65	1044.48	879.78	943.85	895.68	790.29	823.06
72.5	937.52	924.32	809.45	886.32	771.50	758.34	791.14	675.22	594.13	609.95
75.0	720.97	688.14	708.32	602.08	624.80	618.88	524.55	459.43	417.91	403.55
77.5	567.64	540.12	449.13	499.12	423.50	357.97	347.70	314.58	265.54	262.59
80.0	391.13	324.22	359.92	275.41	319.21	275.98	257.18	241.87	146.31	191.36
82.5	235.34	240.37	201.68	163.55	158.94	169.36	136.19	104.16	71.16	81.07
85.0	128.64	117.51	93.61	91.28	79.72	75.75	72.93	59.08	33.97	44.28
87.5	0.00	0.00	0.00	15.46	33.83	29.25	26.78	27.34	10.38	17.47

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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	4.66	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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4425.38	4421.22	4417.11	4413.03	4409.01	4405.05	4401.15	4397.32	4393.58	4389.91
5.0	4404.35	4396.42	4388.59	4380.87	4373.27	4365.81	4358.48	4351.31	4344.31	4337.48
7.5	4373.57	4362.29	4351.22	4340.37	4329.75	4319.39	4309.75	4299.35	4289.59	4280.12
10.0	4334.21	4319.77	4305.65	4291.87	4278.47	4265.44	4252.82	4240.60	4229.50	4217.25
12.5	4283.92	4267.03	4250.64	4234.76	4220.61	4204.31	4189.59	4175.38	4157.12	4138.94
15.0	4207.52	4191.82	4176.76	4162.18	4147.91	4133.81	4116.81	4089.54	4065.16	4042.33
17.5	4091.29	4081.38	4072.75	4068.29	4058.02	4037.47	4007.74	3979.74	3952.73	3927.24
20.0	3972.10	3963.69	3956.89	3951.63	3935.18	3905.44	3874.10	3845.54	3820.22	3791.72
22.5	3859.80	3852.47	3846.87	3838.90	3804.10	3771.17	3742.92	3710.59	3682.67	3678.40
25.0	3750.12	3744.21	3740.23	3713.11	3679.82	3641.35	3608.68	3581.51	3582.10	3583.84
27.5	3642.55	3637.50	3631.22	3587.25	3547.81	3510.95	3480.60	3482.74	3486.83	3491.41
30.0	3535.95	3531.99	3506.28	3460.82	3418.66	3379.56	3380.80	3385.97	3393.48	3401.79
32.5	3426.23	3424.64	3379.27	3328.96	3282.93	3269.48	3279.03	3289.59	3301.29	3239.30
35.0	3309.99	3303.35	3243.46	3190.88	3147.72	3160.32	3174.86	3191.21	3124.77	3064.01
37.5	3186.49	3163.76	3098.23	3038.21	3032.12	3048.13	3067.29	3009.01	2939.66	2876.42
40.0	3054.91	3008.66	2932.44	2878.83	2906.89	2934.28	2898.20	2818.22	2745.71	2721.05
42.5	2908.95	2837.98	2747.75	2730.43	2768.29	2784.02	2691.84	2609.10	2582.70	2581.36
45.0	2758.57	2651.87	2554.71	2579.63	2622.69	2551.66	2460.98	2419.77	2431.92	2440.93
47.5	2565.41	2452.27	2386.58	2430.03	2424.76	2324.59	2254.14	2270.17	2287.69	2234.12
50.0	2365.33	2249.31	2232.76	2282.46	2200.29	2096.79	2108.09	2131.23	2078.80	2015.87
52.5	2168.17	2045.72	2082.67	2093.57	1970.56	1927.96	1960.55	1923.81	1855.38	1819.42
55.0	1964.81	1864.02	1934.35	1861.13	1744.46	1774.53	1761.85	1677.42	1645.39	1653.26
57.5	1744.84	1691.28	1767.50	1610.89	1586.79	1614.09	1514.08	1462.97	1480.09	1459.52
60.0	1513.17	1516.76	1500.38	1373.98	1434.30	1364.65	1288.16	1308.00	1279.19	1199.87
62.5	1284.37	1354.52	1244.58	1224.65	1221.22	1111.02	1139.84	1115.57	1028.50	1002.52
65.0	1084.04	1165.18	1015.94	1093.24	986.39	969.20	951.37	857.95	854.33	862.91
67.5	933.25	919.54	886.34	858.97	812.71	805.52	701.51	701.52	708.83	651.32
70.0	794.06	671.67	745.56	632.64	679.66	567.43	564.86	542.62	485.08	471.88
72.5	636.63	542.48	494.35	525.53	427.68	440.72	408.43	357.23	354.41	342.73
75.0	406.03	414.86	364.02	310.27	314.96	277.40	256.10	257.94	214.32	167.64
77.5	244.63	208.41	216.48	209.65	167.35	172.12	151.66	105.51	115.34	126.89
80.0	165.53	144.69	125.61	95.11	104.08	67.38	70.57	78.45	74.69	69.30
82.5	77.56	69.87	56.61	46.67	41.55	42.62	37.89	34.42	31.44	26.21
85.0	38.99	33.31	26.03	21.65	17.31	15.28	12.45	9.31	6.02	2.81
87.5	12.43	8.54	5.85	2.36	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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4386.34	4382.87	4379.63	4376.23	4373.00	4369.90	4366.91	4364.06	4361.34	4358.76
5.0	4330.83	4324.38	4318.59	4312.05	4306.04	4300.26	4294.72	4289.44	4284.41	4279.76
7.5	4270.94	4262.07	4253.52	4245.20	4236.95	4232.07	4219.79	4211.90	4203.63	4196.17
10.0	4207.36	4191.31	4177.75	4164.89	4152.56	4141.07	4131.01	4120.27	4110.86	4102.97
12.5	4119.44	4101.99	4085.67	4070.32	4055.82	4042.50	4030.12	4018.71	4008.55	3998.99
15.0	4021.02	4000.61	3981.83	3964.42	3948.16	3936.99	3928.96	3922.97	3914.83	3909.54
17.5	3906.87	3882.07	3866.94	3859.39	3851.68	3844.27	3836.94	3830.02	3823.52	3817.31
20.0	3774.68	3769.80	3764.98	3759.92	3754.67	3748.89	3743.11	3737.55	3717.93	3701.51
22.5	3675.86	3673.10	3669.85	3666.14	3662.94	3639.41	3616.55	3595.79	3576.70	3559.57

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CANDELA TABULATION - (Cont.)

25.0	3584.31	3585.12	3584.77	3553.37	3524.18	3497.61	3473.47	3451.69	3432.08	3419.26
27.5	3496.13	3473.65	3436.57	3403.36	3373.98	3348.11	3330.63	3322.09	3314.90	3307.95
30.0	3356.36	3312.24	3273.27	3239.25	3219.10	3216.61	3213.83	3209.79	3204.48	3198.44
32.5	3186.80	3139.48	3102.12	3096.65	3096.15	3096.97	3098.06	3094.16	3073.77	3058.60
35.0	3008.88	2977.67	2971.51	2970.22	2971.70	2964.76	2940.42	2921.87	2907.50	2896.43
37.5	2851.66	2844.63	2838.88	2837.01	2799.73	2771.00	2748.79	2733.95	2729.57	2723.45
40.0	2715.51	2711.67	2686.78	2644.24	2607.39	2576.18	2561.77	2557.11	2556.25	2554.50
42.5	2579.32	2537.91	2490.11	2448.62	2420.05	2405.56	2394.97	2390.26	2393.71	2361.57
45.0	2387.16	2332.07	2284.99	2267.95	2254.38	2241.41	2223.38	2186.87	2157.89	2131.63
47.5	2174.32	2127.91	2114.24	2102.43	2093.42	2040.39	1996.62	1959.03	1927.28	1923.69
50.0	1975.45	1962.00	1950.46	1910.61	1856.78	1808.72	1770.35	1764.01	1760.02	1759.02
52.5	1809.70	1799.10	1732.10	1672.98	1620.61	1611.52	1605.03	1599.76	1596.53	1571.00
55.0	1631.64	1558.03	1491.71	1461.46	1455.08	1448.31	1435.62	1400.86	1369.25	1341.19
57.5	1382.50	1317.00	1308.52	1299.39	1288.06	1247.49	1209.69	1174.85	1147.82	1137.38
60.0	1156.48	1156.63	1151.15	1105.73	1061.67	1021.23	1001.03	989.36	976.52	964.33
62.5	1006.02	982.43	930.80	882.82	861.24	849.18	838.21	824.82	797.60	769.39
65.0	812.89	758.79	728.09	717.41	706.95	687.37	654.23	622.18	591.58	561.65
67.5	602.14	593.33	582.34	556.02	519.40	483.85	450.81	443.32	448.37	450.04
70.0	468.57	442.65	399.90	357.83	335.62	346.36	354.94	358.61	360.06	355.61
72.5	298.24	252.37	250.55	260.24	266.80	274.79	270.02	262.88	254.99	245.99
75.0	176.22	187.12	195.64	191.36	184.43	177.33	170.08	160.79	151.69	142.66
77.5	127.74	122.91	116.01	107.20	100.81	92.45	83.06	72.36	60.00	46.96
80.0	63.99	58.96	51.81	42.35	30.88	23.45	20.83	18.43	16.21	14.16
82.5	19.80	16.55	13.41	10.47	7.72	5.18	2.83	0.66	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	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4356.32	4354.03	4351.89	4349.92	4348.15	4346.41	4344.82	4343.40	4342.15	4341.09
5.0	4274.98	4270.54	4266.38	4262.53	4259.00	4255.65	4252.47	4249.62	4247.10	4244.88
7.5	4189.29	4183.11	4176.94	4171.43	4166.50	4161.97	4157.79	4154.19	4151.08	4148.17
10.0	4094.22	4086.87	4080.38	4074.10	4068.69	4063.81	4059.38	4055.77	4052.32	4049.67
12.5	3993.05	3987.44	3982.25	3977.28	3972.61	3968.18	3964.01	3960.09	3956.47	3953.06
15.0	3902.46	3897.04	3891.45	3886.39	3881.22	3876.25	3872.01	3866.77	3862.43	3858.15
17.5	3811.73	3806.23	3795.66	3784.17	3773.33	3763.61	3755.02	3747.25	3740.52	3734.88
20.0	3685.69	3671.79	3659.36	3649.28	3637.85	3628.85	3621.07	3614.52	3609.76	3604.75
22.5	3544.37	3530.97	3519.68	3510.41	3504.76	3499.26	3494.10	3489.46	3485.46	3482.07
25.0	3413.45	3407.17	3401.56	3395.68	3389.44	3382.98	3376.70	3371.02	3366.13	3362.01
27.5	3301.52	3295.68	3290.07	3284.05	3274.47	3263.36	3254.16	3244.67	3237.42	3231.87
30.0	3187.29	3172.03	3158.81	3147.18	3136.98	3128.32	3119.37	3111.28	3104.06	3098.49
32.5	3041.14	3027.58	3015.73	3005.22	2996.48	2982.31	2968.64	2955.18	2942.60	2932.09
35.0	2887.39	2873.09	2855.75	2838.67	2823.20	2807.95	2793.54	2779.28	2765.92	2755.21
37.5	2714.17	2702.40	2683.22	2665.71	2649.50	2630.92	2612.58	2595.12	2580.79	2568.43
40.0	2545.19	2525.88	2497.39	2471.36	2448.47	2429.19	2413.26	2399.95	2387.88	2377.72
42.5	2336.28	2311.50	2287.53	2264.56	2243.46	2228.42	2219.32	2211.83	2204.86	2196.35
45.0	2110.46	2094.08	2087.40	2077.91	2063.93	2052.55	2043.65	2035.58	2026.84	2018.95
47.5	1924.97	1922.42	1914.90	1902.81	1888.93	1873.34	1857.22	1843.73	1830.87	1819.84
50.0	1761.25	1753.26	1727.21	1702.31	1679.56	1660.47	1643.89	1631.43	1621.18	1612.04
52.5	1548.40	1524.88	1503.75	1482.55	1463.45	1448.73	1437.73	1428.74	1421.39	1414.06
55.0	1316.96	1300.39	1293.43	1283.58	1272.03	1260.05	1248.32	1238.45	1228.98	1220.21
57.5	1127.57	1118.95	1109.46	1096.95	1084.79	1068.28	1052.73	1039.80	1028.11	1017.70
60.0	952.19	932.39	911.90	890.95	871.75	856.38	843.35	832.59	821.65	811.97

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CANDELA TABULATION - (Cont.)

62.5	743.55	719.53	697.47	678.19	662.92	666.79	670.37	672.06	671.94	671.06
65.0	547.78	550.57	552.53	554.19	553.92	555.03	556.41	554.88	552.65	549.81
67.5	450.65	450.69	450.07	448.80	443.18	440.02	436.60	432.32	428.07	423.75
70.0	349.05	342.06	335.25	328.73	321.72	316.01	310.77	305.88	301.17	296.50
72.5	236.45	227.27	218.06	210.52	203.47	195.65	189.52	183.45	177.57	172.32
75.0	132.39	121.96	111.48	101.06	91.15	80.98	71.89	63.43	55.69	48.90
77.5	33.42	27.61	25.88	24.32	22.90	21.58	20.46	19.49	18.64	17.93
80.0	12.28	10.54	8.94	7.49	6.17	4.97	3.92	3.00	2.20	1.53
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>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	4438.75	4438.75	4438.75	4438.75	4438.75
2.5	4340.20	4339.50	4338.99	4338.66	4338.53
5.0	4242.96	4241.24	4239.89	4238.91	4238.30
7.5	4145.84	4144.05	4142.39	4141.29	4140.74
10.0	4047.38	4045.63	4044.42	4043.43	4043.18
12.5	3950.06	3947.14	3944.75	3942.33	3940.63
15.0	3853.92	3850.04	3845.80	3841.75	3838.08
17.5	3730.25	3726.05	3722.53	3719.62	3717.22
20.0	3601.46	3599.16	3597.69	3596.81	3596.37
22.5	3479.15	3476.56	3474.30	3472.33	3470.69
25.0	3358.38	3354.86	3351.33	3347.96	3345.01
27.5	3228.01	3225.51	3223.86	3222.61	3221.67
30.0	3095.30	3094.56	3095.47	3096.86	3098.32
32.5	2924.71	2920.09	2916.81	2914.94	2914.35
35.0	2747.64	2741.86	2736.80	2732.76	2730.37
37.5	2560.59	2554.62	2551.06	2547.89	2546.70
40.0	2370.16	2365.85	2364.21	2362.87	2363.03
42.5	2190.31	2186.54	2182.72	2180.03	2178.60
45.0	2013.04	2008.01	2002.03	1997.35	1994.17
47.5	1811.26	1805.23	1800.37	1796.28	1794.16
50.0	1604.63	1599.40	1597.37	1594.92	1594.15
52.5	1406.99	1402.10	1398.32	1394.92	1393.01
55.0	1211.49	1205.96	1199.80	1194.97	1191.86
57.5	1009.01	1002.47	997.80	993.71	991.78
60.0	804.86	798.34	795.43	792.48	791.70
62.5	669.49	667.88	667.10	665.66	664.82
65.0	546.89	544.28	541.95	539.54	537.93
67.5	420.03	416.95	414.74	412.77	411.72
70.0	292.57	289.46	287.36	286.00	285.50
72.5	167.61	163.87	161.21	159.54	158.94
75.0	43.10	38.50	35.14	33.09	32.38
77.5	17.33	16.85	16.50	16.27	16.19
80.0	0.97	0.55	0.24	0.06	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	1592.54	14.10	14.20
0-30	3342.67	29.70	29.90
0-40	5420.12	48.10	48.40
0-60	9314.77	82.70	83.20
0-80	11145.12	98.90	99.60
0-90	11189.51	99.30	100.00
10-90	10774.29	95.70	96.30
20-40	3827.58	34.00	34.20
20-50	5927.87	52.60	53.00
40-70	5137.69	45.60	45.90
60-80	1830.35	16.20	16.40
70-80	587.32	5.20	5.20
80-90	44.38	0.40	0.40
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	11189.51	99.30	100.00

Total Luminaire Efficiency = 99.30%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	415.21
10-20	1177.33
20-30	1750.13
30-40	2077.45
40-50	2100.3
50-60	1794.36
60-70	1243.04
70-80	587.32
80-90	44.38
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	118	118	118	118	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	105	101	97	106	102	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	50	75	63	55	49	61	54	49	59	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	36
8	61	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	57	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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UGR TABLE - CORRECTED

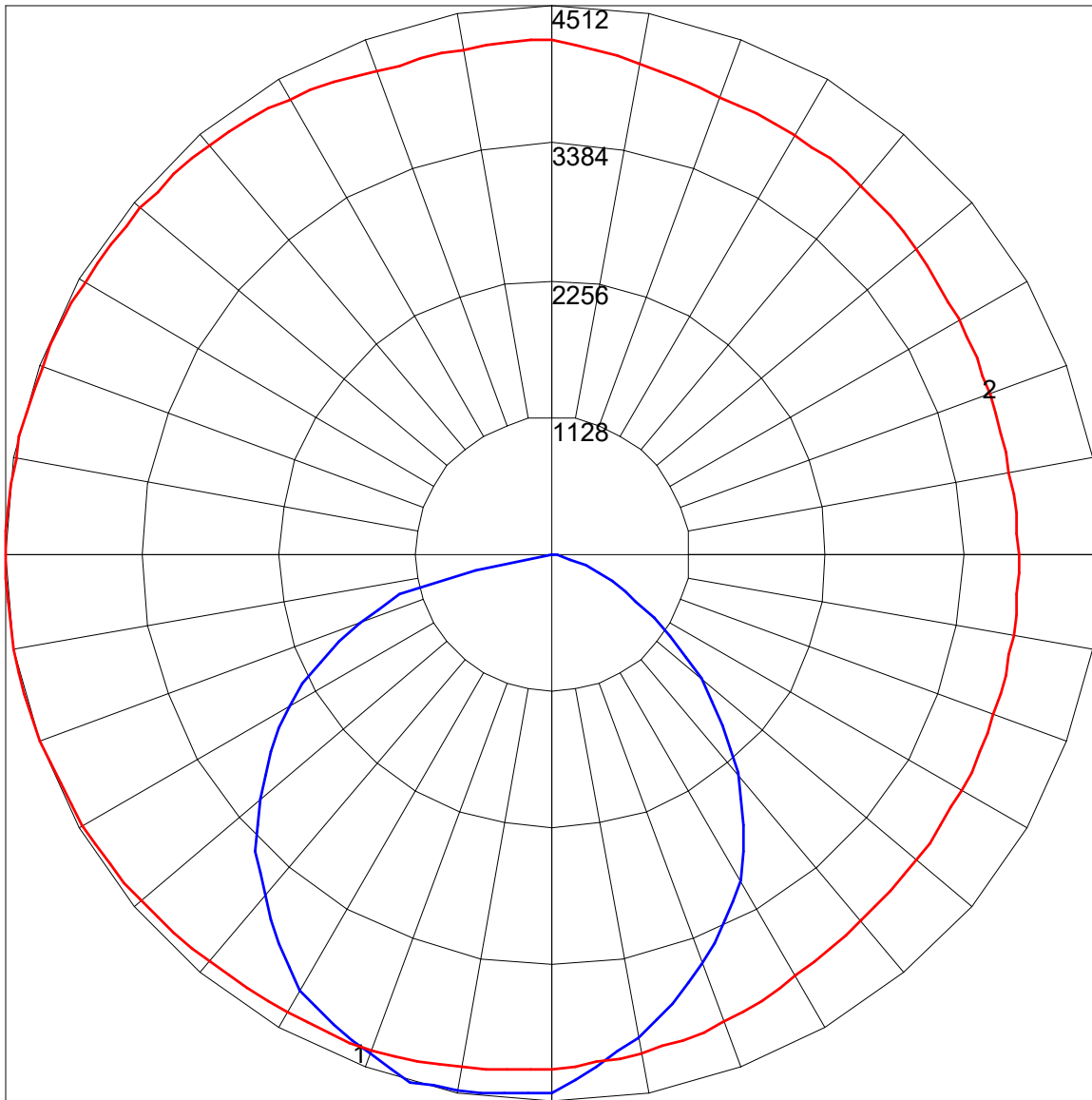
Reflectances

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	13.4	14.8	13.8	15.1	15.4	8.4	8.4	8.4	8.4	8.4
	3H	14.2	15.4	14.5	15.7	16.1	8.4	8.4	8.4	8.4	8.4
	4H	14.1	15.3	14.5	15.6	16.0	8.4	8.4	8.4	8.4	8.4
	6H	14.1	15.1	14.5	15.5	15.9	8.4	8.4	8.4	8.4	8.4
	8H	14.0	15.0	14.5	15.4	15.8	8.4	8.4	8.4	8.4	8.4
	12H	14.0	14.9	14.4	15.3	15.8	8.4	8.4	8.4	8.4	8.4
4H	2H	13.4	14.5	13.8	14.9	15.3	8.4	8.4	8.4	8.4	8.4
	3H	14.2	15.1	14.6	15.5	15.9	8.4	8.4	8.4	8.4	8.4
	4H	14.2	15.0	14.6	15.4	15.9	8.4	8.4	8.4	8.4	8.4
	6H	14.1	14.8	14.6	15.2	15.7	8.4	8.4	8.4	8.4	8.4
	8H	14.0	14.7	14.5	15.1	15.6	8.4	8.4	8.4	8.4	8.4
	12H	14.0	14.6	14.5	15.1	15.5	8.4	8.4	8.4	8.4	8.4
8H	4H	14.0	14.7	14.5	15.2	15.6	8.4	8.4	8.4	8.4	8.4
	6H	13.9	14.5	14.4	15.0	15.5	8.4	8.4	8.4	8.4	8.4
	8H	13.9	14.4	14.4	14.9	15.4	8.4	8.4	8.4	8.4	8.4
	12H	13.8	14.3	14.3	14.8	15.3	8.4	8.4	8.4	8.4	8.4
12H	4H	14.0	14.6	14.5	15.1	15.5	8.4	8.4	8.4	8.4	8.4
	6H	13.9	14.4	14.4	14.8	15.4	8.4	8.4	8.4	8.4	8.4
	8H	13.8	14.3	14.3	14.8	15.3	8.4	8.4	8.4	8.4	8.4

Maximum UGR = 16.1

POLAR GRAPH



Maximum Candela = 4511.67 Located At Horizontal Angle = 185, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (185 - 5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)