



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-A4-250W-5000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-A4-250W-5000K-D120
 [TESTLAB] EVERFINE
 [TESTDATE] 2021-06-29
 [ISSUEDATE] 2021-06-29 11:19:17
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-2000A_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-A4-250W-5000K-D120
 [LUMCAT] HZX-EX-A4-250W-5000K-D120
 [LAMP] 33,400 LUMENS
 [_SEARCH_SOURCETYPE] LED

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

CHARACTERISTICS

Lumens Per Lamp	33400 (1 lamp)
Total Lamp Lumens	33400
Luminaire Lumens	33420
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	238.926
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.26 m
Luminous Width (90-270)	0.30 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	143734	145260	140657
55	106763	98777	96268
65	74278	72218	65819
75	46742	51891	42598
85	0	0	17546

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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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18116.69	18117.50	18118.70	18120.28	18122.23	18124.56	18127.25	18130.29	18133.69	18137.66
5.0	17913.25	17915.47	17918.44	17922.17	17926.62	17931.12	17935.21	17939.99	17945.44	17951.49
7.5	17709.82	17714.01	17719.33	17726.01	17731.24	17737.60	17745.23	17750.98	17757.31	17764.50
10.0	17506.38	17513.12	17521.35	17529.51	17538.38	17547.53	17556.06	17565.73	17571.93	17579.20
12.5	17302.95	17312.80	17324.20	17335.83	17348.44	17360.93	17372.09	17380.62	17387.18	17391.35
15.0	17099.51	17113.02	17128.19	17145.93	17162.25	17178.18	17189.67	17197.59	17204.21	17206.44
17.5	16555.36	16571.92	16594.27	16622.57	16657.05	16687.97	16721.82	16757.95	16792.65	16835.40
20.0	16011.21	16028.54	16051.72	16081.36	16112.81	16144.57	16179.32	16210.77	16250.66	16291.98
22.5	15467.07	15485.38	15509.10	15538.51	15566.75	15598.73	15629.94	15663.98	15700.40	15735.66
25.0	14922.92	14940.38	14963.29	14991.98	15018.45	15049.53	15078.71	15110.67	15138.76	15161.46
27.5	14378.78	14395.38	14417.31	14442.37	14469.29	14496.83	14525.47	14550.06	14561.14	14566.40
30.0	13834.63	13849.91	13870.31	13891.49	13919.86	13942.74	13965.33	13972.45	13965.55	13945.92
32.5	12850.68	12868.62	12900.23	12938.63	12991.56	13049.96	13111.92	13155.89	13193.19	13221.29
35.0	11866.72	11882.82	11912.32	11946.63	11993.33	12045.61	12091.06	12121.84	12151.21	12166.80
37.5	10882.77	10896.66	10922.81	10952.24	10992.25	11033.88	11068.59	11091.68	11108.52	11114.99
40.0	9898.81	9910.15	9930.90	9955.51	9986.53	10019.15	10040.55	10057.10	10065.39	10069.00
42.5	8914.86	8923.30	8938.08	8956.16	8977.99	8997.64	9012.93	9022.42	9028.19	9028.14
45.0	7930.91	7936.12	7944.39	7953.98	7966.31	7975.91	7983.55	7991.48	7998.29	7999.94
47.5	7142.81	7146.57	7148.64	7147.97	7142.05	7128.54	7107.11	7080.23	7046.15	7005.15
50.0	6354.71	6359.02	6362.62	6364.73	6361.14	6350.07	6333.04	6312.19	6283.67	6250.32
52.5	5566.61	5572.03	5576.77	5581.62	5580.41	5575.81	5565.48	5552.09	5531.72	5509.05
55.0	4778.50	4784.71	4792.14	4801.17	4806.45	4804.81	4803.00	4798.95	4790.03	4780.15
57.5	3990.40	3997.42	4007.63	4020.78	4031.90	4037.62	4046.07	4053.39	4058.59	4063.12
60.0	3202.30	3210.28	3223.74	3241.80	3259.64	3274.30	3293.47	3315.79	3337.38	3356.86
62.5	2825.92	2830.25	2833.18	2832.52	2825.12	2810.62	2796.50	2780.00	2763.51	2738.69
65.0	2449.54	2454.17	2458.20	2457.80	2451.34	2440.26	2428.86	2417.94	2408.04	2385.61
67.5	2073.16	2078.14	2083.35	2082.71	2078.26	2071.15	2062.87	2059.33	2054.88	2037.06
70.0	1696.78	1702.16	1708.61	1708.95	1706.10	1703.14	1698.35	1703.75	1704.71	1693.12
72.5	1320.40	1326.22	1333.98	1334.76	1334.74	1335.28	1335.35	1350.85	1357.05	1353.22
75.0	944.02	950.31	959.41	960.79	964.04	969.66	973.68	1000.15	1011.34	1016.78
77.5	472.01	476.35	484.42	490.73	500.46	513.49	528.13	559.83	583.45	606.81
80.0	0.00	1.77	7.12	15.92	28.13	43.66	62.26	86.04	111.64	139.67
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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18140.92	18144.32	18148.04	18152.09	18156.45	18161.12	18166.08	18171.33	18176.85	18182.64
5.0	17956.96	17961.96	17967.56	17973.75	17980.50	17987.48	17993.99	18001.08	18008.75	18016.98
7.5	17770.97	17777.00	17783.91	17791.25	17794.69	17798.96	17804.05	17809.82	17816.08	17828.98
10.0	17584.21	17587.24	17590.70	17594.38	17598.55	17603.22	17606.55	17610.94	17616.09	17621.06
12.5	17394.63	17397.18	17399.52	17401.22	17403.37	17405.03	17407.70	17408.74	17410.95	17414.19
15.0	17208.61	17210.35	17210.97	17211.80	17209.68	17208.44	17207.51	17206.48	17198.71	17193.76
17.5	16880.81	16930.41	16982.08	17022.23	17016.08	17001.92	16984.26	16964.83	16946.55	16930.08
20.0	16335.33	16380.86	16431.87	16475.79	16521.10	16571.22	16623.94	16685.27	16645.70	16616.10
22.5	15770.82	15807.34	15836.49	15865.18	15897.14	15930.89	15971.30	16022.97	16076.57	16137.06
25.0	15181.66	15193.45	15204.02	15215.82	15227.38	15238.65	15274.26	15304.97	15343.03	15390.17
27.5	14560.53	14549.77	14537.11	14526.10	14521.24	14518.65	14522.68	14532.72	14555.71	14574.07
30.0	13913.25	13875.88	13838.27	13803.32	13772.07	13743.42	13724.49	13721.23	13730.59	13756.80

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CANDELA TABULATION - (Cont.)

32.5	13240.94	13174.43	13108.69	13046.64	12974.03	12933.39	12899.07	12876.46	12872.57	12883.43
35.0	12177.44	12182.30	12186.58	12175.01	12169.51	12099.56	12043.82	12005.37	11970.32	11982.63
37.5	11105.92	11117.71	11113.43	11109.35	11111.18	11117.33	11130.42	11115.43	11080.10	11061.60
40.0	10067.63	10064.43	10057.04	10055.36	10053.93	10060.21	10073.75	10093.66	10119.44	10110.58
42.5	9028.26	9024.80	9021.78	9018.35	9021.46	9029.85	9061.38	9052.03	9056.79	9051.48
45.0	8002.17	8003.48	8003.57	8006.41	8002.61	8020.65	8025.81	8024.82	8015.14	7990.49
47.5	6992.46	6987.90	7006.44	7018.24	7029.02	7030.52	7030.39	7024.97	7012.22	6969.36
50.0	6213.38	6166.88	6116.94	6065.46	6060.00	6061.99	6066.38	6072.00	6071.05	6062.84
52.5	5479.62	5441.16	5402.23	5356.77	5291.27	5217.67	5148.08	5179.56	5201.75	5212.88
55.0	4760.44	4733.26	4707.89	4673.41	4624.92	4556.96	4518.62	4470.68	4421.06	4430.76
57.5	4054.83	4036.43	4030.09	4013.92	3986.21	3960.99	3929.76	3897.18	3858.24	3814.06
60.0	3363.04	3369.92	3384.64	3394.27	3392.45	3384.81	3372.64	3357.13	3333.20	3304.15
62.5	2700.48	2714.35	2758.20	2797.09	2822.36	2836.86	2846.29	2849.73	2842.04	2829.24
65.0	2354.24	2332.02	2321.98	2316.27	2302.81	2314.04	2347.83	2372.53	2381.63	2376.72
67.5	2013.56	2001.97	1997.31	1991.60	1980.65	1966.94	1959.25	1949.59	1947.06	1954.21
70.0	1680.35	1675.95	1674.30	1671.79	1664.28	1655.99	1651.51	1642.89	1629.17	1610.10
72.5	1350.74	1352.71	1354.43	1356.49	1353.30	1350.43	1349.35	1343.92	1334.00	1323.87
75.0	1024.59	1031.57	1037.59	1044.91	1046.93	1049.20	1051.89	1054.29	1048.02	1045.37
77.5	635.55	662.94	691.53	723.46	744.41	751.51	759.44	765.91	770.02	773.69
80.0	170.91	203.58	238.36	275.17	311.49	348.25	385.92	423.33	460.01	494.91
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.12	62.19	108.32
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>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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18188.18	18194.86	18200.76	18206.58	18212.65	18218.97	18225.53	18232.31	18239.32	18246.53
5.0	18025.75	18034.20	18042.80	18050.41	18058.64	18067.49	18076.94	18087.00	18097.65	18108.89
7.5	17831.28	17837.83	17848.54	17857.21	17866.80	17877.32	17888.76	17896.91	17914.23	17927.98
10.0	17627.13	17629.92	17641.45	17649.39	17660.96	17669.05	17680.77	17693.76	17708.09	17723.78
12.5	17418.51	17424.24	17428.73	17434.02	17441.62	17450.93	17461.05	17473.71	17488.85	17499.68
15.0	17187.14	17183.78	17182.24	17183.51	17184.51	17193.57	17202.26	17215.20	17232.32	17253.50
17.5	16912.65	16897.43	16888.17	16884.75	16884.75	16883.85	16889.20	16900.73	16918.81	16943.29
20.0	16588.31	16558.78	16534.99	16518.27	16507.59	16503.39	16508.44	16521.00	16543.26	16574.65
22.5	16192.41	16144.01	16105.22	16076.32	16058.28	16052.84	16057.60	16073.41	16100.64	16136.70
25.0	15448.68	15519.75	15601.69	15564.67	15538.71	15527.44	15523.73	15532.15	15556.85	15591.84
27.5	14644.05	14710.91	14792.34	14868.86	14938.97	14913.05	14895.89	14892.46	14911.96	14923.11
30.0	13796.97	13853.24	13926.88	13998.00	14115.22	14222.61	14169.85	14145.91	14122.32	14108.51
32.5	12912.40	12955.15	13034.20	13073.90	13162.23	13254.10	13379.75	13294.94	13226.85	13172.19
35.0	11997.79	12022.85	12049.76	12072.24	12137.88	12194.38	12260.49	12336.55	12214.37	12109.69
37.5	11046.36	11049.18	11006.65	11032.58	11032.65	11047.11	11075.94	11121.79	11149.38	11013.16
40.0	10062.67	10012.53	9964.94	9924.81	9898.04	9889.60	9900.87	9935.97	9998.08	9984.35
42.5	9027.87	8964.91	8893.96	8843.14	8808.12	8791.81	8801.89	8832.71	8880.16	8944.19
45.0	7953.08	7915.24	7881.95	7826.00	7791.14	7776.03	7775.11	7785.38	7808.23	7847.55
47.5	6971.13	6931.35	6900.36	6880.20	6856.01	6836.41	6797.08	6785.26	6808.19	6836.58
50.0	6033.00	6027.32	6009.71	6002.26	5995.19	5968.06	5921.20	5916.74	5904.16	5884.63
52.5	5211.76	5207.18	5208.52	5202.91	5183.04	5165.73	5137.96	5113.44	5086.68	5079.05
55.0	4450.02	4468.79	4478.33	4466.96	4455.46	4443.52	4410.08	4397.93	4367.23	4355.36
57.5	3773.45	3796.85	3809.30	3811.10	3794.18	3793.75	3774.70	3765.56	3744.81	3722.47
60.0	3276.79	3242.64	3209.41	3215.89	3229.96	3223.71	3218.79	3202.34	3190.47	3176.72
62.5	2809.62	2782.07	2754.24	2727.45	2725.68	2735.65	2722.71	2709.25	2706.04	2704.39
65.0	2368.02	2355.11	2335.37	2319.29	2310.07	2295.61	2289.85	2279.05	2263.23	2263.15
67.5	1966.20	1967.67	1952.98	1941.20	1929.56	1916.90	1903.86	1879.99	1868.47	1856.31

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CANDELA TABULATION - (Cont.)

70.0	1598.89	1597.99	1588.51	1583.43	1576.60	1570.69	1549.75	1527.95	1513.81	1502.11
72.5	1313.98	1294.44	1266.70	1246.89	1251.96	1248.00	1235.22	1221.67	1211.80	1201.49
75.0	1040.85	1023.54	1005.83	989.49	972.89	955.65	954.11	947.72	940.75	932.49
77.5	774.20	767.63	759.35	752.28	742.27	729.56	715.42	699.01	695.91	694.42
80.0	516.38	522.39	525.34	526.37	524.50	519.57	511.75	502.02	489.68	480.49
82.5	153.44	196.73	237.98	276.29	310.80	321.43	322.26	321.67	317.85	316.66
85.0	0.00	0.00	0.00	0.00	0.00	40.90	82.46	119.16	151.11	163.53
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18253.94	18261.53	18269.30	18277.24	18285.33	18293.56	18301.92	18294.00	18286.21	18278.57
5.0	18120.72	18133.12	18142.08	18157.34	18172.68	18188.09	18203.52	18189.16	18174.82	18160.55
7.5	17942.73	17958.47	17975.22	17992.98	18011.73	18031.49	18052.24	18033.37	18015.48	17998.58
10.0	17740.83	17759.25	17779.05	17794.20	17820.09	17846.09	17872.14	17848.74	17825.39	17802.13
12.5	17526.34	17548.61	17573.25	17600.16	17629.21	17660.28	17693.24	17663.75	17636.19	17610.75
15.0	17278.50	17307.13	17339.22	17374.55	17408.08	17452.92	17497.85	17454.79	17411.82	17380.67
17.5	16973.86	17009.30	17049.19	17094.48	17144.70	17199.38	17258.01	17198.62	17143.29	17092.61
20.0	16614.11	16662.16	16718.13	16781.33	16842.10	16924.20	17006.50	16920.88	16835.46	16771.90
22.5	16184.41	16233.29	16309.20	16384.27	16468.99	16562.61	16664.37	16555.64	16455.30	16364.38
25.0	15638.39	15693.73	15762.85	15845.36	15940.78	16042.97	16168.38	16029.15	15913.64	15805.59
27.5	14953.22	14999.42	15060.04	15130.91	15220.18	15328.12	15454.96	15305.33	15175.08	15064.44
30.0	14111.37	14125.98	14157.99	14211.74	14288.16	14375.77	14512.54	14344.01	14225.28	14118.65
32.5	13127.27	13099.78	13074.80	13121.09	13172.68	13254.94	13369.39	13214.67	13092.54	13001.85
35.0	12022.08	11961.77	11930.39	11930.15	11962.89	12011.73	12134.34	11968.42	11876.44	11800.89
37.5	10904.69	10831.87	10789.88	10782.16	10809.87	10872.29	10970.76	10826.20	10717.97	10645.02
40.0	9868.15	9783.32	9730.04	9711.65	9730.20	9767.15	9882.34	9717.62	9630.70	9561.72
42.5	8851.38	8748.40	8682.18	8653.42	8664.36	8715.30	8807.62	8667.48	8567.66	8505.77
45.0	7862.93	7750.23	7674.45	7637.38	7637.51	7655.54	7761.16	7610.46	7546.34	7502.78
47.5	6879.76	6809.19	6717.07	6648.42	6646.69	6673.67	6744.97	6625.58	6550.27	6503.32
50.0	5926.15	5937.93	5824.52	5772.16	5748.46	5742.74	5822.60	5695.42	5652.95	5627.52
52.5	5090.86	5125.37	5063.35	4995.50	4965.67	4974.60	5024.02	4929.85	4875.86	4859.66
55.0	4359.78	4383.41	4382.47	4307.23	4268.26	4246.46	4308.74	4203.62	4180.09	4170.69
57.5	3715.79	3727.56	3758.39	3680.00	3631.67	3624.39	3655.78	3586.44	3554.54	3558.58
60.0	3158.88	3151.40	3160.52	3125.87	3076.89	3042.61	3087.01	3012.84	3012.99	3022.34
62.5	2666.81	2654.29	2656.56	2666.19	2615.91	2597.20	2613.22	2563.40	2549.72	2572.20
65.0	2256.60	2223.43	2219.61	2227.80	2183.89	2157.49	2170.58	2126.14	2119.06	2128.16
67.5	1845.27	1824.99	1806.79	1807.51	1781.15	1758.41	1768.29	1735.39	1734.64	1734.10
70.0	1487.88	1483.44	1463.36	1457.27	1456.56	1424.33	1428.47	1400.25	1408.23	1389.48
72.5	1185.95	1179.30	1164.76	1153.26	1160.84	1129.29	1129.31	1108.78	1118.82	1092.79
75.0	926.61	918.43	902.29	888.14	891.34	872.68	860.33	851.85	851.40	831.21
77.5	698.00	689.18	668.76	656.78	647.67	639.79	623.61	621.27	612.02	602.75
80.0	484.61	479.03	470.46	450.65	446.27	439.00	426.04	421.03	412.89	402.95
82.5	307.58	299.09	293.94	286.60	275.10	263.73	256.21	247.24	243.16	239.67
85.0	163.91	161.04	154.58	147.11	137.39	129.13	119.33	114.29	109.55	98.83
87.5	0.00	22.24	46.05	51.89	47.66	41.08	31.59	29.16	25.58	23.98
90.0	0.00	0.00	0.00	0.00	0.00	0.00	6.95	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18271.08	18263.76	18256.61	18249.66	18242.90	18236.36	18230.03	18223.94	18218.09	18212.48

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CANDELA TABULATION - (Cont.)

5.0	18146.35	18138.22	18126.71	18115.70	18105.20	18095.19	18085.68	18076.66	18068.14	18060.11
7.5	17982.66	17967.72	17953.74	17940.71	17928.63	17912.99	17906.66	17896.97	17888.20	17880.34
10.0	17789.74	17772.67	17757.01	17742.77	17729.94	17718.51	17708.48	17699.00	17690.28	17682.60
12.5	17587.58	17566.86	17548.74	17526.04	17518.43	17506.47	17496.82	17489.52	17482.54	17476.87
15.0	17347.88	17318.76	17293.62	17272.73	17256.36	17243.75	17235.22	17231.29	17227.05	17233.47
17.5	17047.17	17007.54	16973.18	16944.74	16923.38	16909.51	16902.54	16902.07	16908.74	16917.42
20.0	16706.12	16648.04	16598.45	16558.12	16526.56	16504.92	16493.88	16492.09	16500.90	16519.14
22.5	16283.88	16203.00	16150.31	16099.39	16061.21	16033.19	16011.19	16015.07	16023.44	16045.75
25.0	15711.59	15632.46	15568.93	15516.90	15479.41	15454.85	15447.78	15455.26	15468.84	15499.01
27.5	14973.60	14895.94	14836.01	14795.81	14766.76	14752.82	14755.00	14774.38	14808.57	14733.45
30.0	14036.16	13977.30	13938.78	13916.60	13915.17	13926.72	13941.60	13992.18	13885.33	13753.29
32.5	12917.36	12905.66	12897.84	12912.57	12946.99	12998.12	13050.33	12931.83	12830.39	12728.09
35.0	11758.83	11748.54	11764.39	11805.86	11872.10	11962.35	11867.44	11791.05	11726.80	11645.31
37.5	10607.30	10602.83	10628.68	10692.60	10785.33	10730.69	10653.25	10596.16	10560.93	10543.14
40.0	9528.87	9531.54	9570.57	9642.86	9627.87	9539.62	9475.21	9433.77	9408.41	9401.76
42.5	8483.60	8498.35	8547.33	8588.35	8499.10	8432.34	8383.20	8344.85	8322.41	8317.97
45.0	7495.74	7521.38	7576.79	7514.62	7440.40	7389.85	7354.27	7333.27	7322.58	7316.13
47.5	6525.55	6572.76	6602.59	6530.26	6469.14	6399.39	6374.87	6387.72	6387.92	6392.17
50.0	5629.37	5691.12	5646.27	5569.27	5566.28	5543.30	5513.69	5510.38	5521.67	5530.23
52.5	4879.17	4895.67	4831.89	4788.83	4761.66	4735.38	4734.18	4733.81	4735.97	4745.69
55.0	4196.35	4171.35	4122.96	4088.68	4069.74	4060.59	4040.09	4045.30	4052.37	4046.07
57.5	3585.03	3533.72	3499.40	3479.04	3466.17	3455.89	3452.63	3449.83	3423.44	3433.45
60.0	3020.66	2983.71	2960.19	2948.78	2942.26	2928.51	2918.75	2914.04	2905.40	2872.90
62.5	2539.13	2504.51	2484.15	2491.91	2472.12	2462.66	2452.82	2438.94	2423.63	2401.47
65.0	2096.34	2076.23	2075.51	2066.17	2053.55	2043.82	2038.28	2022.02	1992.66	1965.39
67.5	1706.99	1697.88	1690.90	1680.09	1673.57	1668.39	1657.80	1634.77	1598.03	1560.59
70.0	1374.92	1373.04	1358.25	1349.73	1340.90	1322.13	1300.55	1270.59	1233.99	1185.60
72.5	1082.00	1079.21	1073.48	1065.13	1041.39	1007.81	974.78	938.97	892.66	835.54
75.0	827.02	822.91	817.84	799.80	764.81	723.13	681.72	632.28	629.45	625.99
77.5	596.17	598.04	576.79	549.00	512.48	465.07	458.45	455.00	448.56	440.16
80.0	402.44	382.44	355.76	319.83	317.15	312.40	299.35	289.68	276.99	262.09
82.5	222.12	197.42	188.89	185.49	178.06	166.44	150.16	132.56	114.95	102.78
85.0	89.96	87.85	80.04	67.12	53.49	42.76	29.87	14.96	0.00	0.00
87.5	17.19	8.00	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>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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18207.14	18201.69	18195.40	18190.61	18185.40	18180.45	18175.79	18171.42	18167.35	18163.59
5.0	18052.57	18044.10	18036.41	18028.36	18020.87	18013.93	18007.57	18001.80	17995.83	17990.19
7.5	17873.39	17864.34	17858.14	17850.49	17843.54	17837.29	17830.50	17823.82	17817.67	17812.06
10.0	17675.94	17665.76	17664.33	17659.61	17655.83	17652.64	17650.39	17649.16	17644.02	17638.49
12.5	17473.20	17470.93	17469.20	17469.01	17467.94	17465.63	17464.09	17460.78	17461.14	17460.99
15.0	17239.81	17247.34	17252.85	17261.27	17266.56	17274.16	17279.81	17286.41	17286.63	17286.31
17.5	16931.57	16950.71	16973.47	17000.18	17028.76	17054.06	17074.26	17090.75	17103.20	17117.19
20.0	16546.93	16581.87	16622.00	16665.33	16714.07	16758.52	16688.24	16625.50	16551.69	16482.55
22.5	16080.14	16126.99	16179.33	16123.41	16050.51	15981.96	15924.25	15870.68	15823.48	15780.21
25.0	15540.13	15440.66	15349.40	15270.70	15205.16	15152.66	15109.86	15058.63	15044.33	15017.10
27.5	14642.37	14541.31	14453.81	14361.52	14325.39	14281.70	14251.23	14231.93	14220.07	14216.33
30.0	13668.55	13583.35	13513.69	13456.32	13410.11	13378.91	13362.97	13359.25	13366.22	13380.93
32.5	12664.50	12588.25	12528.07	12486.10	12460.77	12447.25	12446.52	12461.40	12478.09	12523.53
35.0	11616.00	11572.90	11533.93	11496.39	11461.37	11484.30	11504.94	11538.27	11586.14	11581.64
37.5	10504.77	10521.58	10515.09	10507.84	10499.91	10505.67	10514.70	10506.08	10498.05	10493.07
40.0	9415.30	9443.49	9471.77	9501.21	9498.16	9465.72	9438.26	9427.52	9421.04	9414.55

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CANDELA TABULATION - (Cont.)

42.5	8327.56	8362.97	8408.15	8427.73	8431.57	8423.14	8401.91	8382.15	8371.64	8362.31
45.0	7323.17	7326.60	7349.98	7376.73	7393.70	7395.03	7388.23	7370.06	7341.72	7336.39
47.5	6388.66	6387.94	6388.31	6378.07	6404.61	6404.10	6394.40	6381.85	6363.25	6340.13
50.0	5534.05	5527.73	5502.14	5502.69	5485.77	5467.47	5441.11	5415.41	5396.39	5382.55
52.5	4747.79	4740.61	4708.41	4686.28	4648.30	4597.49	4527.90	4569.10	4611.13	4645.65
55.0	4037.35	4019.21	3988.11	3936.99	3891.62	3895.01	3897.41	3895.25	3919.33	3937.50
57.5	3407.46	3368.65	3327.75	3323.39	3313.27	3306.34	3291.85	3279.03	3260.91	3253.18
60.0	2851.89	2824.68	2805.89	2790.80	2769.19	2744.86	2718.95	2685.12	2646.78	2606.64
62.5	2375.81	2348.73	2317.37	2288.46	2255.53	2212.31	2169.72	2116.71	2055.49	1984.92
65.0	1929.88	1895.31	1854.74	1811.68	1767.31	1706.86	1642.87	1571.58	1526.02	1517.35
67.5	1521.17	1473.26	1420.15	1362.11	1302.38	1277.05	1274.89	1276.75	1274.01	1264.38
70.0	1133.37	1074.24	1031.13	1035.63	1041.78	1039.28	1032.32	1029.90	1023.96	1013.86
72.5	819.35	818.08	812.69	810.61	811.88	806.20	795.87	787.22	777.73	765.50
75.0	618.14	613.26	605.48	596.02	588.28	577.64	563.62	548.92	534.70	518.85
77.5	428.92	415.87	402.67	386.91	371.23	353.87	334.59	314.39	294.27	280.43
80.0	244.69	225.61	204.85	188.51	175.98	162.58	148.80	134.76	120.63	106.56
82.5	89.02	74.13	58.14	41.23	23.77	5.81	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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18160.15	18157.02	18154.23	18151.42	18148.28	18145.54	18143.14	18141.08	18139.36	18138.00
5.0	17985.14	17980.70	17976.88	17972.24	17968.55	17964.89	17961.91	17959.62	17951.50	17951.59
7.5	17805.66	17799.99	17795.20	17790.44	17785.55	17781.57	17777.77	17774.59	17772.01	17770.31
10.0	17633.26	17624.92	17616.83	17609.90	17604.57	17600.29	17594.62	17590.09	17586.55	17578.01
12.5	17461.90	17458.93	17452.82	17443.34	17430.18	17420.59	17414.91	17408.50	17402.11	17398.43
15.0	17285.39	17285.29	17286.75	17282.98	17274.48	17255.15	17237.67	17230.12	17221.24	17212.75
17.5	17065.33	16993.74	16929.91	16875.07	16826.40	16776.08	16721.20	16674.85	16644.19	16615.73
20.0	16417.68	16357.59	16296.41	16240.87	16193.00	16151.54	16109.31	16058.97	16023.50	15996.22
22.5	15731.08	15678.80	15632.93	15589.15	15546.90	15510.10	15477.72	15440.09	15400.48	15375.53
25.0	14995.04	14969.03	14937.02	14909.24	14884.25	14856.66	14833.74	14809.01	14775.89	14752.00
27.5	14215.26	14216.08	14215.11	14203.25	14197.16	14191.97	14177.86	14166.72	14147.07	14125.60
30.0	13404.87	13430.65	13455.65	13480.56	13486.35	13503.27	13512.97	13515.22	13512.27	13497.63
32.5	12565.44	12619.36	12671.35	12654.83	12630.99	12600.15	12578.67	12540.56	12507.62	12471.33
35.0	11581.73	11573.77	11573.35	11560.27	11547.17	11512.67	11495.56	11466.60	11437.42	11405.51
37.5	10487.98	10481.85	10464.70	10473.49	10463.11	10443.13	10417.81	10392.49	10366.57	10338.79
40.0	9410.65	9405.89	9399.58	9395.06	9384.28	9370.51	9342.90	9320.00	9293.03	9271.17
42.5	8352.42	8345.87	8336.43	8324.73	8314.48	8298.37	8274.02	8245.86	8220.38	8202.27
45.0	7318.82	7304.02	7288.41	7272.65	7254.33	7233.37	7207.47	7176.38	7148.48	7132.00
47.5	6310.17	6269.15	6257.45	6253.38	6270.27	6282.64	6288.57	6283.44	6275.40	6274.31
50.0	5404.61	5420.92	5439.77	5453.88	5462.85	5466.78	5466.67	5458.85	5446.78	5441.23
52.5	4661.15	4662.62	4665.77	4669.15	4665.91	4659.02	4650.79	4637.79	4618.24	4608.41
55.0	3939.50	3924.26	3909.03	3898.02	3879.32	3858.96	3839.50	3818.82	3795.73	3778.58
57.5	3234.93	3201.09	3168.84	3139.51	3103.86	3066.81	3033.62	3002.86	2972.94	2949.03
60.0	2562.42	2505.61	2444.53	2392.89	2339.27	2282.49	2232.43	2190.28	2152.03	2120.97
62.5	1909.01	1823.16	1756.47	1764.17	1773.55	1774.49	1779.95	1786.18	1790.78	1793.86
65.0	1508.20	1501.63	1495.54	1497.14	1504.45	1503.00	1505.38	1508.87	1511.81	1513.52
67.5	1254.29	1242.37	1236.36	1233.10	1236.22	1233.13	1232.03	1232.52	1233.27	1233.04
70.0	1001.64	990.61	979.50	971.75	969.95	964.51	959.75	957.00	955.17	953.44
72.5	750.61	737.42	723.87	712.73	705.34	696.77	688.44	681.78	677.44	673.65
75.0	502.06	485.52	469.46	455.16	442.07	429.73	417.94	407.95	400.02	394.09
77.5	269.99	259.32	248.66	238.92	229.63	221.21	213.53	206.96	201.84	198.09

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CANDELA TABULATION - (Cont.)

80.0	92.98	79.66	66.84	54.97	43.93	33.99	25.17	17.60	11.34	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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18136.98	18136.31	18136.00	18134.74	18133.83	18133.28	18133.07	18133.22	18133.72	18134.57
5.0	17951.68	17951.78	17951.87	17949.39	17946.92	17944.45	17942.00	17949.09	17944.54	17942.98
7.5	17768.43	17767.56	17767.75	17765.12	17763.54	17762.98	17759.00	17755.67	17753.35	17747.68
10.0	17580.26	17581.94	17583.62	17580.21	17576.80	17569.58	17571.40	17566.07	17557.85	17550.87
12.5	17396.91	17397.32	17399.50	17397.04	17396.76	17390.37	17384.88	17375.83	17367.82	17360.56
15.0	17206.77	17210.64	17215.37	17212.57	17207.17	17207.43	17198.95	17191.30	17184.91	17175.30
17.5	16597.81	16589.57	16590.24	16590.15	16593.46	16600.09	16609.84	16625.56	16644.33	16665.59
20.0	15957.85	15960.96	15965.11	15959.69	15948.04	15970.43	15979.75	15992.93	16011.47	16018.62
22.5	15352.69	15341.18	15339.98	15337.79	15337.30	15341.14	15348.06	15354.39	15356.96	15359.53
25.0	14709.72	14712.34	14714.84	14706.51	14687.11	14710.54	14711.91	14708.39	14699.45	14692.42
27.5	14107.60	14093.86	14089.71	14083.19	14078.60	14077.82	14071.11	14054.49	14035.09	14016.39
30.0	13460.32	13464.33	13464.58	13449.50	13425.72	13444.04	13428.13	13395.31	13362.27	13328.37
32.5	12439.54	12414.35	12404.92	12399.85	12406.96	12421.48	12424.31	12425.44	12430.10	12436.40
35.0	11377.86	11343.29	11345.25	11329.52	11348.37	11357.89	11359.87	11360.94	11362.81	11368.24
37.5	10315.04	10293.77	10285.59	10281.03	10290.56	10296.69	10302.40	10297.22	10306.51	10303.08
40.0	9250.48	9221.79	9225.92	9210.46	9229.54	9236.79	9237.09	9237.73	9241.09	9245.28
42.5	8185.53	8172.42	8166.26	8162.77	8170.27	8180.10	8178.94	8180.16	8193.81	8194.01
45.0	7120.19	7099.89	7106.59	7092.30	7111.57	7118.56	7125.99	7127.01	7138.68	7151.95
47.5	6272.94	6269.85	6266.45	6262.50	6264.93	6261.98	6252.37	6240.80	6231.58	6220.76
50.0	5436.43	5421.47	5426.31	5414.78	5428.62	5429.20	5424.62	5421.05	5419.14	5418.27
52.5	4600.26	4591.74	4586.17	4585.29	4592.95	4598.20	4600.52	4606.19	4613.93	4624.57
55.0	3765.13	3744.11	3746.03	3738.66	3758.63	3768.29	3779.23	3795.13	3814.85	3838.81
57.5	2930.25	2913.81	2905.88	2908.81	2922.61	2940.11	2960.93	2988.51	3022.05	3060.51
60.0	2064.61	2067.22	2065.74	2062.91	2057.15	2113.77	2145.58	2186.40	2235.34	2291.60
62.5	1794.00	1789.06	1785.26	1785.31	1787.64	1787.78	1785.69	1786.07	1786.16	1783.70
65.0	1503.47	1505.87	1504.78	1502.74	1498.28	1508.48	1507.64	1508.03	1510.46	1508.48
67.5	1231.79	1227.36	1224.30	1224.88	1227.69	1229.42	1229.13	1231.41	1235.48	1234.88
70.0	942.91	944.50	943.81	942.74	939.96	950.73	951.44	955.32	961.66	962.89
72.5	669.82	665.57	663.33	664.54	667.96	671.69	674.07	679.67	687.11	692.76
75.0	382.77	383.13	382.85	382.86	382.05	393.01	396.94	404.57	413.82	424.19
77.5	194.92	192.45	191.43	192.31	194.55	197.50	200.20	204.87	210.73	217.75
80.0	0.00	0.00	0.00	0.00	0.00	0.00	11.25	17.42	24.84	33.42
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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18135.76	18137.29	18139.92	18138.45	18139.17	18140.24	18141.67	18143.46	18145.60	18148.08
5.0	17942.12	17941.94	17940.30	17937.67	17935.76	17934.57	17934.09	17936.37	17933.95	17934.56
7.5	17741.91	17737.13	17732.57	17728.32	17725.01	17723.67	17718.58	17715.71	17713.81	17716.43
10.0	17543.75	17537.73	17530.90	17523.48	17517.19	17508.91	17501.81	17500.26	17484.60	17475.74
12.5	17352.21	17342.59	17331.38	17318.81	17304.48	17287.66	17272.02	17255.69	17243.87	17228.55

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CANDELA TABULATION - (Cont.)

15.0	17168.44	17147.63	17128.66	17106.99	17085.57	17065.38	17040.08	17022.53	16986.95	16967.85
17.5	16687.18	16709.83	16738.86	16775.40	16811.11	16828.95	16789.28	16739.30	16691.00	16644.38
20.0	16031.60	16050.55	16073.94	16108.52	16125.09	16147.13	16173.18	16208.71	16239.62	16279.80
22.5	15366.05	15375.90	15386.48	15396.14	15407.08	15412.57	15423.87	15440.17	15465.20	15502.67
25.0	14688.03	14683.61	14676.30	14665.92	14656.83	14648.30	14650.05	14654.61	14674.24	14705.43
27.5	14006.76	13974.02	13946.42	13916.74	13886.57	13864.03	13851.86	13849.16	13857.98	13877.33
30.0	13291.70	13254.30	13200.54	13148.10	13103.58	13066.26	13038.24	13022.07	13021.12	13033.79
32.5	12441.69	12443.88	12437.75	12369.74	12306.42	12250.60	12209.00	12202.40	12172.11	12166.29
35.0	11369.05	11363.77	11363.84	11358.69	11357.56	11367.06	11374.19	11335.14	11306.66	11296.46
37.5	10305.91	10297.11	10298.43	10295.59	10301.25	10333.03	10340.58	10367.65	10414.60	10414.09
40.0	9244.75	9246.20	9249.45	9255.27	9267.18	9289.46	9309.33	9344.30	9365.24	9381.87
42.5	8199.71	8211.56	8220.76	8235.15	8256.17	8276.37	8296.54	8315.96	8324.84	8324.80
45.0	7168.77	7189.05	7211.29	7239.88	7261.62	7280.66	7295.95	7301.74	7311.62	7305.39
47.5	6212.51	6203.92	6218.63	6252.92	6282.03	6295.99	6306.60	6313.42	6325.46	6332.95
50.0	5419.77	5422.66	5411.80	5409.55	5383.96	5335.14	5346.86	5363.26	5392.63	5420.31
52.5	4635.22	4642.08	4647.42	4651.83	4632.49	4597.55	4572.22	4535.49	4500.65	4563.42
55.0	3859.66	3876.18	3897.15	3911.25	3906.60	3894.31	3886.86	3878.12	3869.21	3856.87
57.5	3092.19	3121.42	3160.47	3189.95	3207.45	3223.06	3239.26	3253.90	3261.77	3267.40
60.0	2332.31	2379.19	2436.84	2489.23	2535.72	2580.06	2623.00	2659.09	2687.07	2712.56
62.5	1766.83	1753.74	1749.88	1809.54	1888.42	1963.02	2032.58	2091.10	2140.90	2185.55
65.0	1496.61	1488.52	1487.55	1488.37	1492.25	1497.88	1503.18	1547.86	1619.90	1684.11
67.5	1227.06	1225.71	1228.19	1229.61	1239.03	1247.35	1253.79	1256.48	1256.52	1256.88
70.0	961.12	965.81	971.06	979.02	988.79	999.22	1007.43	1013.30	1016.82	1021.60
72.5	697.57	705.73	715.89	727.57	739.70	753.48	764.66	774.08	782.21	791.47
75.0	435.11	448.05	462.92	477.74	493.66	509.90	524.92	539.03	552.42	566.31
77.5	225.28	234.06	243.78	254.16	264.50	274.81	288.13	306.88	326.21	345.50
80.0	43.10	53.83	65.52	78.12	91.11	104.51	117.89	131.14	144.49	157.83
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.64
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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18150.90	18154.06	18157.55	18161.36	18167.08	18167.55	18171.04	18174.91	18179.14	18183.74
5.0	17935.87	17937.89	17940.62	17944.04	17953.69	17951.24	17955.84	17961.21	17967.35	17974.25
7.5	17711.22	17711.03	17711.97	17714.05	17714.63	17715.44	17717.57	17721.03	17725.82	17731.97
10.0	17472.63	17461.71	17456.73	17453.31	17450.59	17449.32	17449.96	17452.51	17462.03	17460.02
12.5	17215.33	17201.44	17187.01	17175.12	17163.30	17153.41	17146.90	17151.65	17144.46	17148.67
15.0	16927.37	16899.46	16873.93	16853.19	16835.01	16820.80	16811.99	16806.64	16806.73	16812.47
17.5	16599.63	16557.64	16518.89	16485.61	16459.44	16440.51	16442.64	16425.20	16428.78	16437.85
20.0	16218.58	16161.52	16113.60	16074.76	16042.70	16017.57	15999.72	15990.00	16000.19	15999.71
22.5	15551.72	15612.09	15669.13	15608.75	15562.88	15529.29	15505.39	15493.78	15484.59	15500.18
25.0	14746.24	14797.53	14863.87	14939.34	15018.87	14971.87	14939.00	14925.35	14914.71	14923.10
27.5	13924.05	13958.17	14010.36	14079.69	14164.94	14263.17	14317.96	14292.98	14279.55	14275.04
30.0	13052.42	13087.74	13138.39	13204.41	13286.69	13381.72	13480.55	13576.47	13544.16	13505.58
32.5	12180.76	12209.23	12251.01	12299.07	12353.59	12419.87	12489.42	12574.65	12677.61	12616.95
35.0	11301.37	11310.24	11331.80	11348.21	11358.07	11382.75	11425.62	11485.88	11566.82	11670.09
37.5	10380.61	10349.28	10326.83	10309.02	10302.71	10313.89	10346.39	10399.57	10472.11	10562.15
40.0	9395.04	9367.18	9313.29	9279.14	9266.65	9277.38	9305.35	9344.60	9398.66	9469.99
42.5	8320.88	8308.36	8302.78	8288.76	8280.94	8285.21	8300.90	8325.86	8365.43	8424.86
45.0	7298.62	7296.75	7305.62	7322.97	7343.82	7338.60	7340.07	7356.78	7381.47	7416.00
47.5	6341.76	6356.31	6376.46	6400.57	6417.25	6433.85	6433.13	6432.19	6441.57	6463.71
50.0	5447.94	5478.46	5511.47	5536.04	5556.96	5568.11	5574.10	5572.95	5572.52	5592.31

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CANDELA TABULATION - (Cont.)

52.5	4611.52	4661.49	4695.50	4742.51	4765.54	4779.23	4785.13	4785.25	4785.57	4799.52
55.0	3847.85	3902.14	3965.28	4014.85	4050.62	4068.16	4072.62	4083.21	4100.30	4114.94
57.5	3276.48	3288.50	3299.81	3360.51	3403.82	3425.30	3448.08	3468.00	3483.37	3499.83
60.0	2738.19	2761.76	2788.06	2807.45	2815.70	2861.63	2893.71	2916.66	2938.72	2961.09
62.5	2228.01	2267.28	2302.57	2322.32	2346.07	2366.96	2397.90	2432.22	2454.39	2467.67
65.0	1743.76	1797.31	1840.82	1876.55	1910.62	1941.25	1972.42	1995.75	2012.17	2024.48
67.5	1282.17	1349.43	1408.89	1460.32	1504.64	1551.79	1586.42	1608.21	1623.16	1644.96
70.0	1024.15	1024.79	1027.66	1067.29	1132.51	1187.01	1224.23	1252.86	1279.71	1301.87
72.5	798.11	802.46	809.83	813.48	828.41	843.85	892.31	931.72	965.55	993.37
75.0	579.62	589.55	600.32	613.15	623.65	630.84	632.80	636.17	683.38	715.19
77.5	363.68	381.64	397.25	415.24	430.22	441.11	448.90	455.74	460.45	460.17
80.0	170.76	183.11	199.72	221.77	241.88	259.79	275.14	288.51	299.20	306.95
82.5	23.07	40.10	56.50	71.92	86.32	99.54	111.48	129.91	148.07	163.40
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.62	29.16	41.97
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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18188.70	18194.01	18199.66	18205.65	18211.97	18218.60	18225.55	18232.79	18240.33	18231.72
5.0	17981.91	17990.33	17999.50	18009.43	18020.11	18031.52	18043.67	18056.55	18070.15	18054.39
7.5	17743.60	17748.17	17758.33	17769.90	17782.88	17797.29	17813.10	17830.34	17848.98	17827.79
10.0	17466.08	17474.36	17484.87	17497.60	17512.55	17529.70	17549.03	17570.54	17594.18	17567.86
12.5	17156.41	17167.58	17189.45	17199.49	17220.39	17244.47	17271.57	17301.48	17334.02	17300.83
15.0	16833.06	16839.28	16860.22	16886.04	16916.50	16951.30	16990.14	17032.72	17078.69	17034.92
17.5	16451.66	16472.53	16500.21	16544.28	16574.57	16621.02	16673.15	16730.45	16792.40	16735.71
20.0	16018.76	16053.22	16084.07	16130.16	16184.86	16247.53	16317.49	16394.03	16476.38	16402.32
22.5	15536.59	15554.13	15598.39	15654.16	15718.76	15793.27	15878.00	15972.31	16075.49	15986.09
25.0	14944.15	14979.34	15048.15	15083.64	15154.08	15237.67	15334.04	15442.79	15563.43	15457.57
27.5	14280.67	14301.62	14335.63	14387.23	14469.48	14534.46	14633.06	14750.05	14884.96	14770.57
30.0	13494.73	13482.46	13499.57	13530.27	13579.47	13651.78	13747.58	13867.19	14010.84	13895.38
32.5	12565.18	12533.38	12523.40	12536.09	12573.23	12633.68	12720.31	12834.82	12978.28	12866.75
35.0	11597.28	11545.34	11515.18	11529.94	11525.40	11571.11	11646.55	11752.96	11891.46	11786.05
37.5	10630.69	10553.88	10509.68	10481.02	10487.04	10523.00	10590.55	10691.25	10826.45	10723.51
40.0	9561.48	9581.67	9516.80	9482.20	9477.33	9505.25	9567.66	9665.61	9799.94	9693.42
42.5	8500.94	8594.13	8547.08	8495.36	8478.54	8517.03	8551.93	8645.48	8778.62	8674.68
45.0	7468.79	7541.13	7622.42	7526.11	7494.97	7500.92	7544.46	7631.28	7759.91	7659.31
47.5	6496.30	6543.18	6616.70	6613.57	6559.47	6551.03	6584.88	6658.05	6772.80	6684.95
50.0	5616.78	5647.75	5710.33	5760.16	5707.61	5696.33	5720.07	5781.86	5885.10	5807.74
52.5	4821.80	4852.41	4906.74	4971.47	4953.52	4930.57	4945.51	4998.71	5092.31	5023.86
55.0	4126.14	4150.11	4187.17	4237.94	4263.13	4229.11	4233.86	4279.15	4366.55	4301.87
57.5	3520.70	3531.91	3544.01	3570.53	3620.65	3591.06	3587.94	3623.27	3698.37	3642.64
60.0	2974.92	2972.98	2975.84	2994.91	3022.47	3016.56	3007.42	3035.25	3103.52	3059.42
62.5	2474.01	2501.08	2495.03	2488.11	2505.32	2525.86	2525.73	2532.64	2590.55	2553.96
65.0	2046.06	2063.75	2088.96	2065.90	2070.20	2098.29	2092.49	2108.67	2159.63	2127.00
67.5	1659.84	1675.52	1696.43	1700.70	1699.99	1717.13	1721.81	1729.99	1772.66	1747.99
70.0	1320.87	1335.21	1352.76	1380.06	1374.50	1381.53	1398.00	1399.19	1435.28	1414.39
72.5	1017.03	1038.40	1054.89	1074.11	1093.34	1091.32	1109.31	1108.65	1140.39	1123.66
75.0	744.91	771.07	794.24	809.86	840.82	847.72	847.85	853.33	884.59	867.25
77.5	500.36	531.52	557.28	579.63	602.64	624.93	616.76	623.90	651.36	636.53
80.0	311.76	317.66	349.27	375.02	405.21	415.63	422.17	433.27	445.87	443.03
82.5	175.38	183.73	188.21	198.24	225.85	245.89	255.50	269.13	273.98	281.02
85.0	52.79	66.81	80.24	89.31	93.60	105.16	121.82	130.31	138.50	141.07
87.5	0.00	0.00	0.00	8.31	18.42	27.14	30.65	39.24	47.81	46.99

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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 11.65 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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18223.41	18215.40	18207.71	18200.35	18193.33	18186.65	18180.34	18174.40	18168.84	18163.66
5.0	18039.34	18025.03	18011.46	17998.64	17986.57	17975.27	17964.74	17954.98	17946.00	17937.80
7.5	17808.00	17789.64	17772.70	17757.19	17743.10	17730.44	17723.36	17709.12	17700.18	17692.52
10.0	17543.66	17521.59	17501.64	17483.82	17468.12	17454.54	17443.05	17433.66	17431.95	17419.27
12.5	17270.17	17242.13	17216.82	17194.30	17181.63	17157.96	17144.21	17133.44	17125.71	17128.19
15.0	16994.47	16957.59	16924.52	16895.48	16870.70	16850.36	16843.72	16822.51	16814.44	16811.02
17.5	16683.56	16636.38	16594.58	16568.24	16528.11	16503.32	16484.56	16472.00	16463.04	16458.36
20.0	16333.93	16271.81	16216.54	16168.65	16128.64	16102.75	16073.78	16059.41	16063.48	16055.47
22.5	15905.45	15834.16	15772.75	15720.43	15674.86	15639.19	15627.32	15595.92	15588.23	15590.71
25.0	15363.63	15282.08	15213.35	15157.82	15137.49	15084.11	15065.19	15060.67	15063.41	15083.88
27.5	14673.45	14593.46	14544.56	14478.81	14441.62	14419.98	14421.06	14419.18	14437.87	14467.71
30.0	13803.49	13734.46	13687.54	13661.91	13652.96	13656.24	13686.39	13703.42	13742.43	13787.24
32.5	12784.25	12729.82	12701.64	12695.92	12714.21	12753.03	12809.17	12880.70	12970.06	12866.07
35.0	11712.69	11670.23	11657.40	11694.78	11713.89	11778.82	11866.20	11975.27	11897.35	11838.35
37.5	10655.56	10621.69	10620.87	10651.91	10720.17	10798.45	10909.05	10866.15	10805.95	10767.34
40.0	9623.81	9590.75	9593.68	9632.26	9706.20	9813.71	9828.75	9767.96	9726.02	9702.83
42.5	8610.71	8606.38	8598.10	8645.79	8726.44	8796.81	8732.28	8690.73	8667.93	8662.13
45.0	7602.31	7587.53	7613.32	7675.28	7801.56	7748.82	7702.19	7671.47	7658.71	7668.85
47.5	6638.76	6632.11	6668.82	6752.41	6787.94	6747.35	6730.24	6720.61	6725.95	6739.69
50.0	5772.43	5776.38	5816.97	5898.51	5875.61	5843.75	5850.56	5858.79	5865.07	5887.77
52.5	4996.74	5008.93	5058.50	5102.10	5060.69	5035.77	5038.41	5057.38	5091.12	5106.61
55.0	4279.85	4299.40	4359.24	4357.13	4331.28	4320.10	4325.31	4349.06	4370.12	4380.51
57.5	3627.31	3651.97	3705.49	3679.40	3676.81	3689.12	3703.36	3712.22	3717.49	3726.97
60.0	3054.82	3085.37	3103.84	3090.99	3100.12	3122.15	3148.13	3149.04	3146.43	3148.89
62.5	2568.33	2590.25	2585.90	2588.14	2604.90	2637.42	2634.18	2644.08	2646.46	2642.41
65.0	2130.71	2158.09	2144.62	2153.53	2194.13	2186.03	2184.47	2188.99	2196.30	2194.38
67.5	1759.03	1771.89	1769.12	1783.34	1793.81	1792.84	1794.90	1794.70	1799.36	1826.00
70.0	1429.67	1429.38	1438.67	1461.62	1450.48	1449.04	1456.31	1460.55	1470.02	1484.15
72.5	1139.61	1135.54	1154.15	1149.73	1147.91	1149.25	1158.52	1171.93	1181.46	1178.92
75.0	875.98	889.27	893.43	882.00	882.19	889.22	897.15	907.50	920.88	910.11
77.5	642.13	663.70	654.38	647.83	652.86	658.88	665.18	668.78	683.28	696.05
80.0	446.58	451.65	449.11	449.01	453.69	455.15	465.44	474.45	481.78	487.77
82.5	278.05	280.15	280.30	278.30	285.01	291.39	294.94	296.21	294.82	291.40
85.0	141.19	140.59	142.57	146.70	147.48	144.87	132.60	105.37	73.34	36.84
87.5	46.00	47.66	40.15	19.34	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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18158.88	18154.50	18153.18	18146.63	18142.08	18137.90	18134.09	18130.66	18127.63	18124.98
5.0	17930.40	17923.78	17924.14	17912.73	17907.72	17903.49	17900.06	17897.44	17895.62	17896.98
7.5	17686.13	17680.99	17677.09	17673.33	17667.91	17669.52	17660.24	17661.52	17656.37	17655.65
10.0	17415.81	17409.25	17407.00	17406.32	17406.79	17408.86	17416.84	17415.70	17419.76	17429.96
12.5	17118.95	17119.42	17122.50	17127.64	17134.13	17142.85	17151.39	17159.75	17170.09	17179.95
15.0	16811.80	16813.63	16819.41	16828.86	16841.65	16858.25	16874.28	16900.07	16911.71	16937.80
17.5	16472.27	16468.54	16483.70	16503.55	16527.03	16553.07	16578.32	16607.28	16639.69	16669.89
20.0	16065.61	16081.98	16103.47	16129.85	16160.82	16200.29	16247.85	16297.19	16250.68	16213.76
22.5	15603.20	15627.30	15662.09	15706.10	15767.77	15712.91	15661.73	15619.72	15589.77	15566.95

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CANDELA TABULATION - (Cont.)

25.0	15097.72	15126.60	15166.25	15094.18	15034.28	14987.32	14950.58	14921.07	14898.30	14883.81
27.5	14511.25	14480.28	14399.43	14325.15	14264.13	14220.24	14204.96	14179.63	14174.66	14176.26
30.0	13699.52	13621.26	13551.24	13498.94	13458.27	13425.79	13405.58	13402.59	13415.37	13437.16
32.5	12790.08	12722.34	12682.01	12627.45	12599.72	12588.64	12588.16	12598.96	12626.12	12688.68
35.0	11795.08	11762.51	11749.92	11743.78	11733.47	11727.48	11736.56	11769.67	11811.24	11873.64
37.5	10748.99	10746.24	10757.40	10782.02	10801.64	10833.52	10872.04	10917.13	10948.73	10922.95
40.0	9700.70	9714.89	9746.36	9792.94	9848.45	9912.01	9945.58	9921.57	9904.12	9904.32
42.5	8674.96	8704.30	8750.59	8810.74	8861.87	8877.82	8883.26	8890.63	8909.23	8883.23
45.0	7691.19	7727.43	7783.06	7810.79	7831.00	7848.27	7866.36	7874.92	7893.84	7890.30
47.5	6768.25	6804.09	6817.25	6839.24	6874.55	6879.93	6889.74	6898.73	6904.78	6913.41
50.0	5907.04	5913.77	5929.04	5943.76	5959.40	5972.64	5974.77	5967.66	5961.13	5960.18
52.5	5104.42	5107.78	5112.98	5121.75	5126.19	5126.95	5118.28	5094.99	5063.97	5127.76
55.0	4383.37	4379.56	4374.75	4367.38	4358.08	4343.50	4338.77	4392.33	4438.24	4485.66
57.5	3731.34	3724.88	3707.92	3684.48	3668.26	3723.64	3774.59	3818.05	3852.12	3879.46
60.0	3150.31	3137.24	3106.86	3133.13	3170.94	3210.26	3249.68	3277.22	3296.60	3306.46
62.5	2633.44	2636.67	2659.55	2682.73	2708.12	2735.74	2758.53	2770.96	2770.11	2760.90
65.0	2209.34	2228.90	2248.57	2264.55	2278.53	2290.81	2300.13	2295.26	2271.34	2239.92
67.5	1840.15	1852.99	1865.90	1873.87	1880.38	1874.19	1868.34	1875.59	1886.29	1896.45
70.0	1498.45	1505.64	1507.76	1505.98	1513.22	1532.55	1554.42	1573.93	1584.39	1589.24
72.5	1183.44	1182.98	1196.61	1217.50	1234.45	1250.78	1265.15	1279.61	1286.62	1287.90
75.0	916.45	932.90	948.02	962.30	972.31	978.57	988.12	994.50	994.23	992.05
77.5	694.26	703.28	711.42	716.84	720.93	715.92	714.16	711.91	706.94	699.45
80.0	485.83	485.56	484.80	481.80	476.76	448.62	419.07	388.39	355.86	322.52
82.5	279.86	250.08	216.45	180.15	141.21	98.24	56.60	13.89	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	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18122.73	18120.89	18119.46	18118.43	18119.73	18116.84	18115.23	18114.03	18113.22	18112.80
5.0	17893.55	17893.01	17893.28	17894.36	17896.26	17897.49	17897.65	17898.63	17900.41	17905.60
7.5	17655.97	17658.52	17658.73	17661.15	17664.67	17668.56	17672.67	17677.93	17683.49	17686.89
10.0	17426.75	17428.36	17431.14	17434.09	17438.25	17443.22	17449.04	17456.20	17462.92	17471.08
12.5	17191.48	17201.19	17210.80	17217.44	17221.91	17226.86	17232.29	17238.95	17247.00	17255.57
15.0	16949.28	16967.91	16984.13	17000.26	17011.89	17020.16	17028.48	17030.40	17036.52	17044.76
17.5	16700.45	16728.22	16712.62	16684.44	16657.49	16632.25	16608.53	16582.93	16561.69	16546.45
20.0	16180.13	16152.44	16128.45	16115.26	16087.20	16069.56	16053.47	16037.12	16020.46	16001.55
22.5	15547.83	15530.58	15523.34	15509.51	15501.89	15493.90	15486.18	15478.70	15468.70	15455.91
25.0	14883.70	14882.11	14884.10	14889.56	14897.00	14905.14	14909.33	14911.72	14912.78	14907.48
27.5	14184.74	14200.19	14223.56	14248.88	14273.63	14299.22	14331.81	14337.70	14348.86	14355.61
30.0	13465.16	13500.54	13539.81	13585.20	13633.66	13681.56	13720.53	13754.97	13777.89	13798.12
32.5	12721.45	12775.87	12839.81	12903.80	12973.84	12967.12	12954.81	12944.44	12924.44	12902.45
35.0	11950.98	11962.92	11952.71	11950.24	11947.73	11943.06	11938.40	11932.28	11919.20	11902.17
37.5	10920.42	10940.42	10922.28	10922.26	10925.76	10924.37	10929.92	10921.31	10921.38	10900.82
40.0	9889.97	9893.75	9900.62	9904.61	9911.08	9914.28	9918.10	9916.69	9910.36	9901.14
42.5	8884.06	8885.23	8890.49	8899.82	8905.22	8913.45	8915.79	8916.24	8915.13	8900.96
45.0	7892.91	7896.39	7899.91	7912.79	7911.26	7917.66	7921.74	7920.72	7912.65	7903.15
47.5	6924.91	6926.49	6927.46	6925.09	6929.20	6952.25	6995.96	7030.60	7054.70	7068.58
50.0	5973.54	5984.42	6052.25	6106.57	6154.01	6203.10	6234.89	6264.34	6285.93	6298.01
52.5	5213.74	5276.32	5337.86	5386.35	5424.48	5458.64	5484.03	5505.01	5522.56	5531.17
55.0	4542.78	4594.04	4644.00	4682.14	4711.56	4732.26	4744.19	4752.95	4762.80	4766.96
57.5	3910.15	3943.22	3972.80	3995.36	4012.84	4018.77	4015.68	4008.89	4007.32	4005.60
60.0	3312.87	3319.45	3323.65	3325.66	3325.62	3318.25	3297.86	3276.15	3256.67	3247.25

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CANDELA TABULATION - (Cont.)

62.5	2743.51	2722.87	2698.55	2674.04	2667.35	2705.35	2725.91	2739.83	2760.45	2787.74
65.0	2225.59	2242.88	2262.64	2287.93	2317.99	2350.46	2370.96	2380.20	2396.17	2417.38
67.5	1908.62	1920.74	1934.99	1953.56	1975.64	1999.62	2014.49	2022.67	2033.91	2050.40
70.0	1596.85	1604.15	1613.17	1624.36	1638.79	1655.13	1662.36	1666.90	1674.81	1684.83
72.5	1290.30	1292.33	1294.77	1299.67	1306.46	1310.51	1313.12	1312.56	1314.71	1320.50
75.0	988.26	984.74	980.81	978.79	979.22	971.75	964.72	959.44	957.09	957.69
77.5	690.84	669.93	644.33	620.94	599.38	575.21	552.32	533.99	518.60	506.76
80.0	288.45	254.87	221.96	190.76	161.06	132.31	105.66	81.97	61.10	43.09
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	18320.12	18320.12	18320.12	18320.12	18320.12
2.5	18112.79	18113.17	18113.95	18115.12	18116.69
5.0	17904.43	17905.45	17907.26	17909.87	17913.25
7.5	17691.47	17696.95	17700.06	17704.36	17709.82
10.0	17478.04	17485.01	17492.36	17498.60	17506.38
12.5	17265.10	17273.94	17285.83	17292.59	17302.95
15.0	17053.77	17064.01	17074.58	17086.34	17099.51
17.5	16538.07	16534.70	16536.07	16542.76	16555.36
20.0	15992.09	15988.95	15990.95	15997.49	16011.21
22.5	15446.53	15443.55	15446.57	15452.39	15467.07
25.0	14900.64	14898.12	14902.07	14908.51	14922.92
27.5	14353.77	14352.76	14357.26	14363.10	14378.78
30.0	13806.33	13807.75	13812.71	13819.03	13834.63
32.5	12880.64	12859.27	12843.35	12839.28	12850.68
35.0	11886.53	11869.09	11857.12	11855.22	11866.72
37.5	10894.34	10878.60	10871.69	10871.00	10882.77
40.0	9892.20	9887.12	9883.57	9886.64	9898.81
42.5	8894.68	8896.85	8896.29	8902.15	8914.86
45.0	7900.50	7899.89	7908.79	7917.52	7930.91
47.5	7082.18	7098.16	7116.74	7129.51	7142.81
50.0	6307.98	6319.54	6334.42	6344.03	6354.71
52.5	5536.53	5542.92	5552.88	5558.87	5566.61
55.0	4767.06	4767.69	4773.36	4774.37	4778.50
57.5	3999.75	3993.91	3990.92	3989.09	3990.40
60.0	3234.65	3221.59	3211.30	3204.66	3202.30
62.5	2803.09	2813.45	2820.37	2824.40	2825.92
65.0	2432.47	2439.62	2444.96	2448.04	2449.54
67.5	2060.73	2066.28	2069.79	2071.73	2073.16
70.0	1690.81	1693.69	1694.82	1695.47	1696.78
72.5	1321.69	1320.71	1320.04	1319.25	1320.40
75.0	953.25	948.43	945.41	943.06	944.02
77.5	494.77	484.37	477.24	472.66	472.01
80.0	27.81	15.72	7.01	1.76	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	6515.23	19.50	19.50
0-30	13456.25	40.30	40.30
0-40	20763.5	62.20	62.10
0-60	30467.88	91.20	91.20
0-80	33346.89	99.80	99.80
0-90	33419.87	100.10	100.00
10-90	31715.53	95.00	94.90
20-40	14248.28	42.70	42.60
20-50	20125.27	60.30	60.20
40-70	11755.28	35.20	35.20
60-80	2879.01	8.60	8.60
70-80	828.11	2.50	2.50
80-90	72.98	0.20	0.20
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	33419.87	100.10	100.00

Total Luminaire Efficiency = 100.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1704.35
10-20	4810.87
20-30	6941.03
30-40	7307.25
40-50	5876.99
50-60	3827.4
60-70	2050.9
70-80	828.11
80-90	72.98
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

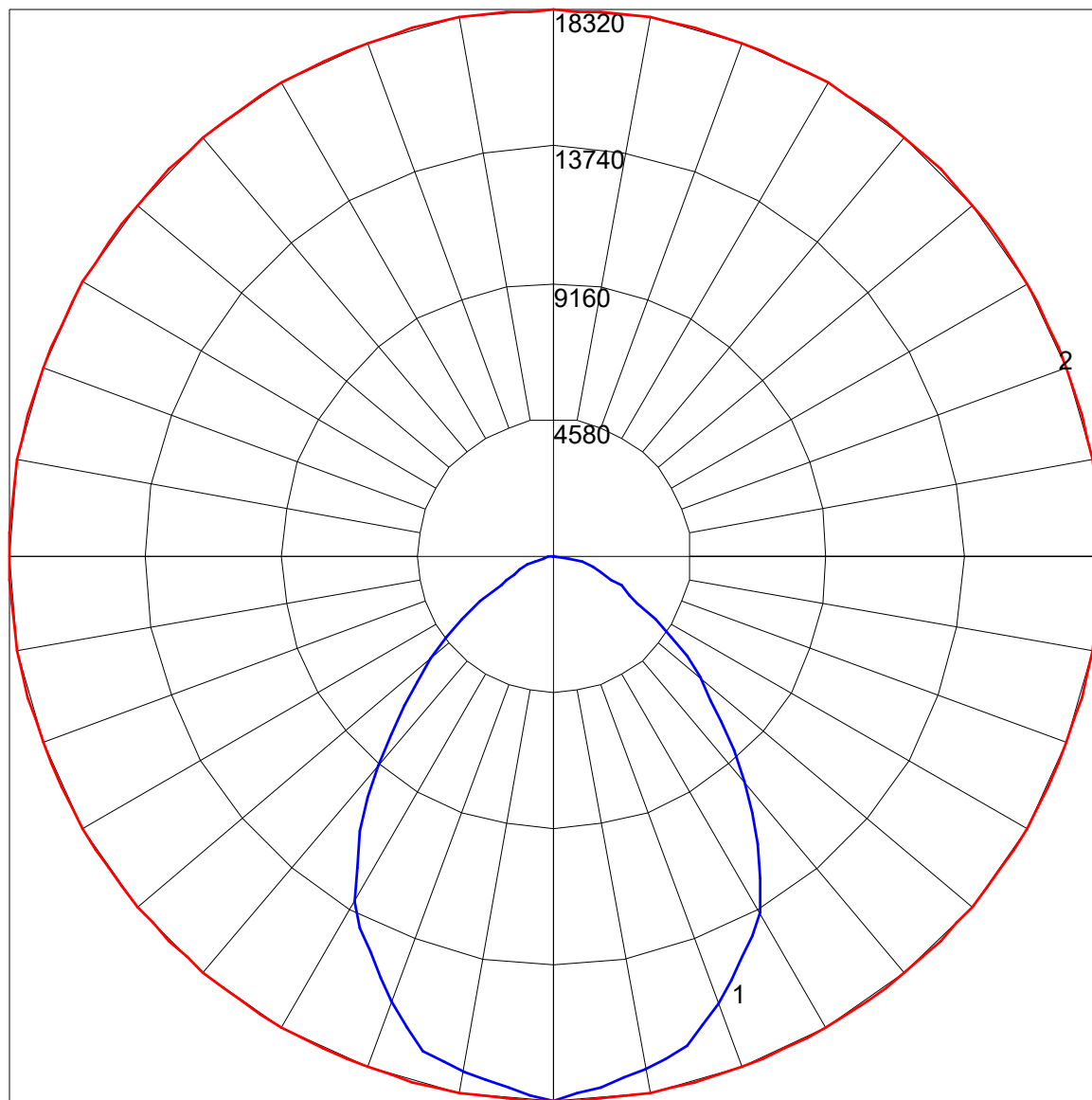
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

POLAR GRAPH



Maximum Candela = 18320.12 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)