



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-I4-80W-5000K-D120.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] HZX-EX-I4-80W-5000K-D120  
 [TESTLAB] EVERFINE  
 [TESTDATE] 2018-06-12  
 [ISSUEDATE] 2018-10-20 08:53:43  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [OTHER] EVERFINE GO-3000H\_V1 SYSTEM  
 [MANUFAC] BELUCE CANADA INC.  
 [LUMINAIRE] HZX-EX-I4-80W-5000K-D120  
 [LUMCAT] ] HZX-EX-I4-80W-5000K-D120  
 [LAMP] 15413 LUMENS  
 [\_SEARCH\_SOURCETYPE] LED

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

### CHARACTERISTICS

Lumens Per Lamp	15413 (1 lamp)
Total Lamp Lumens	15413
Luminaire Lumens	15413
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	100.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>
<b>0.0</b>	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
<b>2.5</b>	4828.66	4828.64	4828.62	4828.61	4828.60	4828.61	4828.62	4828.64	4828.67	4828.70
<b>5.0</b>	4824.99	4824.88	4824.79	4824.71	4824.65	4824.46	4824.06	4823.67	4823.31	4822.77
<b>7.5</b>	4821.32	4821.07	4820.84	4820.62	4819.98	4819.32	4818.53	4817.81	4816.91	4816.05
<b>10.0</b>	4817.65	4817.20	4816.77	4815.96	4815.00	4813.88	4812.46	4811.07	4809.30	4807.56
<b>12.5</b>	4813.98	4813.27	4812.49	4811.20	4809.73	4807.75	4805.60	4803.18	4800.46	4797.41
<b>15.0</b>	4810.30	4809.28	4808.00	4806.22	4803.87	4801.12	4798.03	4794.29	4790.33	4785.89
<b>17.5</b>	4778.17	4777.16	4776.02	4774.60	4772.75	4770.58	4768.10	4765.44	4761.85	4759.65
<b>20.0</b>	4746.03	4744.89	4743.43	4741.35	4738.78	4735.82	4732.39	4727.86	4724.64	4720.42
<b>22.5</b>	4713.89	4712.54	4710.60	4708.11	4704.72	4700.64	4696.10	4691.21	4685.98	4680.26
<b>25.0</b>	4681.75	4680.28	4678.07	4674.66	4670.33	4665.21	4659.55	4653.43	4646.71	4639.24
<b>27.5</b>	4649.62	4647.90	4645.16	4641.00	4635.69	4629.54	4622.72	4615.27	4606.70	4597.49
<b>30.0</b>	4617.48	4615.52	4612.27	4607.31	4600.93	4593.70	4585.64	4576.45	4566.29	4554.23
<b>32.5</b>	4522.58	4521.15	4519.43	4516.94	4513.88	4510.81	4508.30	4505.03	4501.71	4497.79
<b>35.0</b>	4427.67	4426.22	4424.24	4421.06	4417.14	4412.93	4408.42	4402.99	4397.95	4391.84
<b>37.5</b>	4332.77	4331.32	4329.03	4325.25	4320.19	4314.51	4308.22	4301.31	4293.53	4284.66
<b>40.0</b>	4237.87	4236.45	4233.69	4229.53	4222.90	4215.79	4207.44	4198.41	4188.01	4176.63
<b>42.5</b>	4142.97	4141.60	4138.40	4133.71	4125.53	4116.33	4106.34	4094.87	4081.85	4067.65
<b>45.0</b>	4048.06	4046.78	4043.17	4037.38	4028.01	4016.75	4004.60	3990.86	3975.22	3958.11
<b>47.5</b>	3880.99	3880.26	3878.45	3875.71	3871.05	3865.90	3860.85	3854.69	3848.24	3841.27
<b>50.0</b>	3713.91	3712.76	3710.54	3707.07	3701.73	3695.63	3688.74	3680.56	3671.92	3662.19
<b>52.5</b>	3546.84	3545.52	3542.47	3538.15	3531.79	3525.49	3516.66	3506.33	3495.24	3482.85
<b>55.0</b>	3379.76	3378.10	3374.66	3370.10	3363.47	3355.16	3344.30	3331.92	3318.34	3303.25
<b>57.5</b>	3212.68	3210.62	3206.70	3201.66	3194.42	3184.75	3171.85	3157.43	3141.31	3123.30
<b>60.0</b>	3045.60	3043.15	3038.78	3033.33	3025.55	3014.43	2998.79	2983.04	2964.38	2943.20
<b>62.5</b>	2695.50	2694.76	2695.71	2698.91	2703.16	2706.82	2709.98	2714.46	2719.42	2723.96
<b>65.0</b>	2345.40	2344.67	2345.80	2349.19	2353.47	2356.78	2360.25	2364.82	2369.71	2374.10
<b>67.5</b>	1995.30	1994.60	1995.94	1999.24	2003.81	2007.16	2011.04	2015.70	2020.56	2025.56
<b>70.0</b>	1645.19	1644.55	1646.13	1650.11	1654.35	1657.92	1662.23	1667.06	1672.44	1678.34
<b>72.5</b>	1295.09	1294.52	1296.34	1300.65	1305.06	1308.34	1313.72	1319.04	1325.18	1332.15
<b>75.0</b>	944.99	944.50	946.58	951.29	955.91	960.27	965.60	971.55	978.64	987.05
<b>77.5</b>	472.50	473.45	478.12	486.48	497.07	509.67	524.78	542.00	561.54	582.87
<b>80.0</b>	0.00	1.76	7.03	15.79	27.94	43.34	61.85	83.26	107.43	134.12
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	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>
<b>0.0</b>	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
<b>2.5</b>	4828.65	4828.51	4828.38	4828.27	4828.16	4828.07	4828.00	4827.93	4827.88	4827.84
<b>5.0</b>	4822.56	4822.09	4821.66	4821.26	4820.90	4820.51	4819.96	4819.46	4819.01	4818.60
<b>7.5</b>	4815.03	4813.88	4812.79	4811.72	4810.33	4809.01	4807.78	4806.57	4805.25	4804.19
<b>10.0</b>	4805.57	4803.37	4801.14	4798.87	4796.57	4794.31	4791.81	4789.45	4787.17	4784.71
<b>12.5</b>	4794.19	4790.83	4787.34	4783.69	4780.01	4776.09	4772.33	4768.22	4764.30	4760.48
<b>15.0</b>	4781.29	4776.50	4771.27	4765.99	4760.34	4754.80	4749.13	4743.62	4737.71	4732.11
<b>17.5</b>	4756.62	4753.35	4750.17	4745.88	4737.73	4730.87	4723.14	4715.20	4707.06	4698.80
<b>20.0</b>	4715.96	4711.34	4706.72	4701.87	4697.07	4692.43	4687.14	4682.53	4671.66	4661.38
<b>22.5</b>	4674.18	4667.97	4661.28	4654.29	4646.81	4639.31	4632.26	4625.76	4618.54	4611.40
<b>25.0</b>	4631.37	4622.63	4613.47	4603.71	4593.71	4582.62	4573.82	4563.14	4552.76	4542.77
<b>27.5</b>	4586.85	4575.53	4563.40	4550.95	4538.26	4524.45	4510.57	4496.88	4483.15	4467.08
<b>30.0</b>	4540.98	4526.69	4511.68	4495.89	4478.94	4462.00	4444.59	4427.00	4409.68	4392.86

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**CANDELA TABULATION - (Cont.)**

32.5	4493.93	4476.34	4457.90	4438.02	4416.97	4397.14	4375.60	4354.31	4333.19	4312.10
35.0	4385.26	4378.59	4371.34	4364.11	4354.93	4329.66	4304.62	4279.00	4250.97	4228.11
37.5	4273.85	4265.60	4255.87	4246.25	4236.47	4228.19	4220.27	4200.91	4170.33	4140.48
40.0	4164.52	4151.38	4138.55	4125.22	4112.59	4100.24	4088.45	4077.52	4068.94	4049.00
42.5	4052.19	4036.36	4019.68	4002.96	3986.43	3970.13	3956.60	3940.64	3926.25	3911.26
45.0	3939.26	3920.01	3899.68	3879.47	3856.57	3837.96	3819.80	3800.77	3779.59	3759.96
47.5	3825.84	3800.33	3779.09	3754.43	3729.57	3706.05	3684.06	3656.94	3630.74	3602.03
50.0	3652.40	3642.52	3633.30	3625.02	3599.74	3575.40	3543.90	3511.72	3479.79	3448.72
52.5	3469.88	3456.54	3443.52	3431.25	3422.76	3415.20	3402.77	3365.00	3327.24	3290.97
55.0	3286.90	3269.89	3253.31	3237.36	3226.15	3206.57	3194.64	3179.85	3167.28	3131.26
57.5	3103.38	3080.34	3060.63	3041.79	3022.73	3005.03	2984.90	2964.19	2944.57	2928.53
60.0	2919.55	2895.43	2871.53	2848.42	2824.49	2800.12	2773.70	2746.73	2719.34	2697.22
62.5	2727.70	2708.26	2680.63	2652.26	2624.35	2595.23	2562.48	2526.39	2493.76	2464.29
65.0	2378.37	2384.28	2389.27	2397.61	2406.33	2389.79	2349.76	2305.11	2268.85	2225.55
67.5	2030.45	2037.23	2043.34	2050.33	2058.83	2063.23	2062.32	2057.94	2043.13	1992.32
70.0	1684.49	1691.83	1697.80	1705.34	1713.22	1718.56	1718.16	1719.43	1717.89	1713.47
72.5	1339.56	1347.94	1354.09	1362.62	1370.39	1377.48	1380.76	1387.03	1387.01	1387.44
75.0	995.83	1005.22	1011.89	1021.58	1030.36	1040.91	1049.63	1062.24	1063.90	1068.90
77.5	606.23	630.04	651.12	674.46	693.14	708.02	723.08	737.41	747.40	757.20
80.0	162.93	193.42	224.15	256.10	288.88	322.82	357.10	389.96	419.13	446.24
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.91	56.51	97.58
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	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
2.5	4827.64	4827.77	4827.78	4827.75	4827.75	4827.76	4827.78	4827.82	4827.88	4827.95
5.0	4818.24	4817.76	4817.51	4817.10	4816.75	4816.46	4816.24	4816.07	4815.97	4815.93
7.5	4802.91	4801.49	4800.80	4799.74	4798.80	4797.99	4797.31	4796.11	4796.27	4795.84
10.0	4782.44	4779.51	4778.13	4775.99	4774.14	4772.35	4770.82	4769.44	4768.30	4767.40
12.5	4756.76	4753.32	4749.72	4746.19	4742.97	4740.01	4737.24	4734.83	4732.78	4729.75
15.0	4726.36	4720.99	4715.53	4710.21	4704.53	4700.61	4696.30	4692.51	4689.16	4686.14
17.5	4690.64	4682.76	4675.24	4668.11	4661.28	4654.43	4648.31	4642.66	4637.42	4632.97
20.0	4650.89	4639.87	4629.14	4618.77	4608.86	4599.50	4590.99	4583.01	4576.05	4570.07
22.5	4603.85	4589.29	4575.29	4561.86	4549.01	4537.02	4525.77	4515.57	4506.50	4498.28
25.0	4533.12	4524.15	4515.84	4499.06	4482.79	4467.68	4453.26	4439.75	4428.56	4418.37
27.5	4456.99	4444.90	4433.67	4420.79	4410.27	4391.79	4374.38	4358.46	4344.47	4331.76
30.0	4376.39	4360.75	4346.36	4331.11	4321.23	4310.16	4287.04	4268.73	4250.63	4234.68
32.5	4291.84	4272.41	4255.02	4235.04	4220.24	4205.38	4193.76	4169.78	4148.58	4130.03
35.0	4203.23	4179.57	4155.61	4130.07	4111.97	4093.75	4077.61	4063.55	4038.16	4015.80
37.5	4110.39	4080.65	4046.90	4024.01	3997.82	3974.41	3953.83	3936.22	3919.01	3892.45
40.0	4011.93	3976.32	3941.34	3908.10	3877.18	3848.73	3823.33	3801.65	3784.09	3762.17
42.5	3898.78	3867.58	3826.70	3787.90	3751.27	3717.28	3686.93	3660.32	3638.26	3621.42
45.0	3741.45	3725.46	3708.76	3662.85	3620.29	3580.77	3545.13	3513.86	3488.97	3470.67
47.5	3583.41	3560.63	3541.10	3526.41	3485.75	3439.08	3394.05	3359.50	3332.00	3305.88
50.0	3416.43	3391.98	3367.99	3346.64	3328.56	3292.82	3242.26	3198.45	3156.39	3114.98
52.5	3255.09	3222.08	3189.92	3160.52	3134.98	3115.08	3072.10	3014.38	2961.32	2916.84
55.0	3089.73	3047.84	3006.03	2965.55	2931.17	2898.61	2863.46	2823.84	2764.08	2711.69
57.5	2914.90	2868.59	2812.97	2765.27	2715.05	2676.69	2642.10	2612.68	2558.11	2498.70
60.0	2673.98	2646.16	2618.64	2558.58	2506.05	2456.50	2413.56	2374.72	2348.05	2294.54
62.5	2429.92	2397.61	2371.82	2341.66	2294.53	2241.71	2190.81	2147.97	2115.11	2091.46
65.0	2187.65	2155.00	2117.68	2084.90	2058.68	2032.78	1974.54	1924.71	1881.02	1847.65
67.5	1955.90	1918.14	1875.98	1837.99	1803.59	1775.85	1753.70	1701.42	1646.74	1602.33

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<b>70.0</b>	1713.13	1684.15	1638.88	1593.80	1554.05	1519.47	1490.27	1460.67	1414.60	1359.13
<b>72.5</b>	1386.65	1386.75	1378.99	1353.32	1310.87	1271.30	1235.96	1200.24	1169.83	1136.55
<b>75.0</b>	1074.78	1075.59	1072.77	1064.97	1051.83	1031.93	996.11	954.23	926.43	896.81
<b>77.5</b>	768.63	776.07	781.16	786.09	785.94	779.91	756.28	730.23	698.02	664.37
<b>80.0</b>	469.33	486.55	503.03	522.47	539.57	544.74	534.36	517.95	492.71	458.83
<b>82.5</b>	137.14	175.66	213.10	255.80	303.33	325.55	330.59	326.31	310.92	291.05
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	41.19	83.83	118.82	142.50	147.20
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	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><b>75.0</b></u>	<u><b>77.5</b></u>	<u><b>80.0</b></u>	<u><b>82.5</b></u>	<u><b>85.0</b></u>	<u><b>87.5</b></u>	<u><b>90.0</b></u>	<u><b>92.5</b></u>	<u><b>95.0</b></u>	<u><b>97.5</b></u>
<b>0.0</b>	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
<b>2.5</b>	4828.04	4828.15	4828.27	4828.40	4828.55	4828.71	4828.89	4827.24	4825.61	4824.00
<b>5.0</b>	4815.96	4816.04	4815.73	4816.14	4816.54	4816.95	4817.36	4814.03	4810.71	4807.40
<b>7.5</b>	4795.56	4795.43	4795.44	4795.60	4795.91	4796.36	4796.96	4791.98	4787.15	4782.49
<b>10.0</b>	4766.74	4766.33	4766.16	4765.17	4766.09	4767.00	4767.92	4761.11	4754.31	4747.54
<b>12.5</b>	4729.66	4728.48	4727.72	4727.38	4727.47	4727.98	4728.91	4720.54	4712.61	4705.12
<b>15.0</b>	4683.67	4681.76	4680.42	4679.66	4678.28	4679.59	4680.90	4670.62	4660.36	4652.84
<b>17.5</b>	4629.34	4626.40	4624.16	4622.79	4622.29	4622.67	4623.92	4612.31	4601.58	4591.74
<b>20.0</b>	4564.74	4560.51	4557.40	4555.41	4552.28	4554.27	4556.26	4542.66	4529.10	4520.64
<b>22.5</b>	4491.44	4484.07	4481.73	4478.83	4477.43	4477.52	4479.11	4464.69	4451.77	4440.37
<b>25.0</b>	4409.67	4402.34	4396.77	4392.98	4390.99	4389.91	4392.48	4375.89	4362.95	4350.94
<b>27.5</b>	4320.75	4311.86	4305.00	4300.00	4297.33	4296.98	4298.95	4281.86	4267.08	4254.62
<b>30.0</b>	4221.28	4210.18	4201.65	4195.87	4192.83	4191.18	4194.93	4175.17	4160.79	4147.79
<b>32.5</b>	4113.80	4100.53	4088.20	4083.52	4079.63	4079.10	4081.94	4062.22	4045.85	4032.80
<b>35.0</b>	3996.35	3980.51	3967.96	3959.35	3954.72	3952.09	3957.31	3934.78	3920.00	3907.12
<b>37.5</b>	3869.88	3850.93	3836.22	3825.65	3819.49	3818.05	3821.34	3800.10	3783.51	3771.50
<b>40.0</b>	3735.08	3712.64	3694.83	3681.98	3674.38	3669.41	3675.32	3651.52	3638.59	3628.31
<b>42.5</b>	3594.64	3568.70	3547.87	3532.37	3522.09	3517.68	3519.45	3498.44	3483.88	3475.74
<b>45.0</b>	3453.58	3420.25	3393.24	3372.48	3358.82	3348.71	3353.39	3328.13	3317.35	3310.41
<b>47.5</b>	3285.89	3254.49	3220.52	3193.16	3178.70	3171.27	3173.28	3150.54	3137.06	3130.34
<b>50.0</b>	3090.23	3063.25	3020.95	2994.30	2975.99	2963.01	2971.41	2943.38	2936.26	2933.91
<b>52.5</b>	2881.68	2856.91	2821.93	2791.28	2771.47	2763.73	2768.51	2745.60	2734.93	2735.64
<b>55.0</b>	2669.20	2636.87	2606.86	2571.11	2548.64	2532.44	2544.04	2514.86	2513.33	2517.97
<b>57.5</b>	2451.11	2415.61	2392.99	2356.71	2332.08	2321.73	2326.32	2304.78	2297.92	2304.54
<b>60.0</b>	2241.20	2199.35	2169.69	2136.90	2106.44	2084.70	2098.31	2070.74	2077.14	2090.53
<b>62.5</b>	2023.76	1975.12	1937.09	1907.88	1872.86	1856.09	1859.65	1844.48	1849.04	1870.27
<b>65.0</b>	1814.45	1747.46	1696.41	1659.21	1624.70	1605.27	1608.91	1598.04	1608.69	1636.59
<b>67.5</b>	1563.26	1512.98	1452.83	1410.88	1372.38	1354.20	1357.93	1349.65	1363.69	1410.83
<b>70.0</b>	1315.97	1281.33	1223.39	1177.32	1147.49	1122.84	1125.41	1103.12	1118.36	1166.79
<b>72.5</b>	1081.69	1041.92	1001.11	949.98	913.16	884.84	887.10	836.61	831.18	889.67
<b>75.0</b>	850.95	811.94	772.43	724.11	681.26	657.11	658.33	581.64	568.55	630.41
<b>77.5</b>	633.95	603.45	557.91	528.03	479.70	452.09	449.34	348.33	342.11	399.32
<b>80.0</b>	432.53	403.96	380.64	343.60	309.32	278.70	239.36	131.17	158.38	181.05
<b>82.5</b>	265.98	241.92	223.79	202.47	169.88	147.10	93.69	46.62	55.61	64.54
<b>85.0</b>	139.29	126.08	111.37	93.44	76.74	63.64	22.56	10.20	7.99	12.02
<b>87.5</b>	0.00	17.68	34.22	33.54	26.53	21.78	11.25	16.05	25.09	15.39
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	12.67	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u><b>100.0</b></u>	<u><b>102.5</b></u>	<u><b>105.0</b></u>	<u><b>107.5</b></u>	<u><b>110.0</b></u>	<u><b>112.5</b></u>	<u><b>115.0</b></u>	<u><b>117.5</b></u>	<u><b>120.0</b></u>	<u><b>122.5</b></u>
<b>0.0</b>	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
<b>2.5</b>	4822.41	4820.84	4819.31	4817.80	4816.33	4814.90	4813.50	4812.15	4810.84	4809.58

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**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	4804.10	4801.54	4798.62	4795.79	4793.05	4790.43	4787.91	4785.51	4783.22	4781.06
<b>7.5</b>	4778.00	4773.69	4769.58	4765.66	4761.95	4757.72	4754.89	4751.63	4748.58	4745.74
<b>10.0</b>	4742.72	4737.12	4731.82	4726.83	4722.17	4717.85	4713.87	4710.18	4706.80	4703.78
<b>12.5</b>	4698.10	4691.55	4685.49	4678.43	4674.48	4669.67	4665.37	4661.59	4658.18	4655.22
<b>15.0</b>	4644.76	4637.35	4630.61	4624.56	4619.19	4614.26	4609.89	4606.21	4602.33	4600.29
<b>17.5</b>	4582.80	4574.78	4567.55	4561.16	4555.69	4551.16	4547.18	4543.82	4541.37	4539.43
<b>20.0</b>	4511.11	4502.76	4495.59	4489.61	4484.31	4480.05	4476.91	4474.37	4472.78	4472.13
<b>22.5</b>	4430.48	4420.14	4414.73	4408.90	4404.50	4401.25	4398.31	4398.65	4398.75	4399.80
<b>25.0</b>	4340.77	4332.41	4325.87	4320.84	4317.46	4315.24	4315.14	4316.08	4317.72	4320.77
<b>27.5</b>	4244.48	4236.19	4229.94	4225.83	4223.50	4223.19	4224.58	4227.40	4231.68	4240.74
<b>30.0</b>	4137.51	4129.95	4124.95	4122.27	4122.16	4124.02	4126.21	4132.01	4149.96	4167.11
<b>32.5</b>	4020.57	4015.69	4011.72	4010.81	4012.67	4017.04	4024.19	4044.27	4066.19	4087.83
<b>35.0</b>	3898.02	3892.64	3890.46	3891.70	3895.81	3902.86	3925.31	3949.91	3976.40	4001.44
<b>37.5</b>	3763.82	3760.34	3761.03	3765.19	3773.04	3794.33	3820.86	3849.96	3881.26	3913.91
<b>40.0</b>	3623.31	3622.77	3624.88	3631.08	3649.86	3678.50	3710.57	3745.19	3781.64	3819.88
<b>42.5</b>	3473.23	3476.67	3484.32	3496.92	3526.34	3558.94	3594.32	3634.04	3677.11	3721.74
<b>45.0</b>	3310.19	3316.54	3329.58	3357.64	3393.17	3432.14	3473.57	3520.32	3568.39	3618.92
<b>47.5</b>	3136.15	3148.21	3169.93	3206.31	3247.67	3290.09	3340.66	3398.61	3454.81	3503.11
<b>50.0</b>	2939.09	2958.38	2995.39	3038.17	3095.04	3150.77	3207.45	3270.35	3314.15	3331.50
<b>52.5</b>	2745.95	2769.56	2811.46	2863.53	2925.56	2994.94	3064.92	3112.19	3131.84	3156.17
<b>55.0</b>	2535.17	2573.96	2628.27	2689.24	2754.78	2828.09	2879.53	2912.16	2942.20	2976.05
<b>57.5</b>	2324.35	2370.40	2429.46	2500.57	2582.46	2645.54	2671.01	2706.91	2740.73	2788.44
<b>60.0</b>	2122.77	2175.33	2239.13	2313.45	2387.15	2420.38	2459.65	2502.27	2551.53	2594.03
<b>62.5</b>	1915.02	1975.38	2047.05	2135.25	2163.53	2201.86	2247.00	2297.21	2355.43	2402.26
<b>65.0</b>	1698.30	1773.55	1859.66	1902.99	1945.40	1992.35	2044.76	2099.76	2132.55	2171.26
<b>67.5</b>	1480.80	1564.06	1619.61	1651.46	1715.52	1785.66	1839.62	1869.86	1905.47	1944.57
<b>70.0</b>	1243.61	1334.72	1346.09	1383.47	1449.56	1537.73	1580.71	1626.48	1682.38	1728.57
<b>72.5</b>	971.96	1019.24	1051.86	1101.40	1169.60	1231.32	1305.92	1371.81	1450.18	1519.47
<b>75.0</b>	685.13	707.93	752.24	817.84	884.22	956.51	1032.70	1111.64	1195.77	1262.51
<b>77.5</b>	409.75	439.52	492.95	558.79	623.57	697.02	779.53	858.20	936.17	1004.23
<b>80.0</b>	177.18	231.24	274.32	338.16	410.95	493.76	568.68	634.79	696.55	758.89
<b>82.5</b>	80.50	102.27	132.76	190.18	253.90	316.60	377.46	430.57	459.67	439.62
<b>85.0</b>	25.47	49.30	65.11	81.86	114.24	119.70	100.03	55.77	0.00	0.00
<b>87.5</b>	7.38	5.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<b><u>125.0</u></b>	<b><u>127.5</u></b>	<b><u>130.0</u></b>	<b><u>132.5</u></b>	<b><u>135.0</u></b>	<b><u>137.5</u></b>	<b><u>140.0</u></b>	<b><u>142.5</u></b>	<b><u>145.0</u></b>	<b><u>147.5</u></b>
<b>0.0</b>	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
<b>2.5</b>	4808.37	4807.16	4805.87	4804.96	4803.93	4802.95	4802.04	4801.18	4800.39	4799.67
<b>5.0</b>	4779.03	4776.92	4775.10	4773.25	4771.53	4769.95	4768.50	4767.20	4765.79	4764.45
<b>7.5</b>	4743.14	4740.27	4738.29	4736.12	4734.19	4732.49	4730.79	4729.25	4727.94	4726.85
<b>10.0</b>	4701.12	4697.86	4696.29	4694.24	4692.56	4690.76	4689.19	4687.95	4686.77	4685.85
<b>12.5</b>	4652.76	4650.57	4648.36	4646.64	4645.31	4644.36	4643.86	4642.82	4642.97	4642.54
<b>15.0</b>	4598.10	4596.40	4595.09	4594.45	4594.01	4594.18	4594.09	4594.43	4595.12	4596.26
<b>17.5</b>	4538.19	4537.52	4537.31	4537.61	4538.17	4539.26	4540.90	4542.76	4544.13	4546.87
<b>20.0</b>	4472.44	4473.33	4474.75	4476.54	4478.82	4481.69	4490.18	4498.67	4507.19	4515.65
<b>22.5</b>	4401.41	4403.69	4405.26	4416.92	4428.38	4439.62	4450.91	4461.94	4472.82	4483.44
<b>25.0</b>	4324.76	4338.15	4351.80	4365.45	4379.35	4393.80	4408.47	4421.16	4436.63	4449.95
<b>27.5</b>	4258.85	4275.19	4292.36	4307.64	4327.85	4345.21	4362.88	4380.55	4397.97	4414.54
<b>30.0</b>	4188.23	4208.58	4229.47	4250.66	4272.28	4293.89	4315.13	4336.02	4357.01	4377.16
<b>32.5</b>	4113.47	4138.19	4162.97	4188.43	4213.98	4239.68	4265.07	4289.96	4312.74	4338.25
<b>35.0</b>	4033.00	4063.42	4093.69	4123.80	4150.97	4183.28	4212.77	4241.92	4270.02	4277.53
<b>37.5</b>	3944.90	3983.42	4019.00	4055.54	4090.96	4124.96	4144.95	4149.84	4155.69	4161.85
<b>40.0</b>	3859.81	3900.07	3941.71	3982.97	4004.51	4011.82	4018.14	4026.10	4034.77	4043.63

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**CANDELA TABULATION - (Cont.)**

42.5	3767.56	3814.58	3846.58	3856.75	3867.62	3880.46	3891.39	3901.09	3912.69	3925.03
45.0	3671.99	3687.17	3699.50	3713.69	3729.67	3745.88	3763.70	3776.95	3787.61	3805.08
47.5	3515.23	3531.26	3549.02	3565.32	3589.04	3610.55	3631.99	3652.82	3668.48	3684.68
50.0	3351.33	3372.27	3392.74	3420.86	3446.88	3473.49	3499.79	3526.09	3547.32	3562.19
52.5	3183.01	3211.62	3238.98	3271.58	3303.09	3335.13	3365.40	3378.87	3390.98	3396.31
55.0	3012.10	3048.19	3084.45	3120.91	3153.65	3168.36	3184.27	3196.97	3215.63	3228.91
57.5	2835.97	2883.35	2922.61	2939.74	2959.41	2980.21	3000.40	3020.68	3037.76	3058.74
60.0	2653.46	2686.93	2712.56	2737.55	2764.67	2791.35	2816.55	2841.25	2864.90	2888.15
62.5	2427.59	2464.43	2501.24	2532.75	2568.31	2602.23	2633.52	2662.28	2689.93	2716.49
65.0	2202.10	2240.95	2288.27	2325.01	2369.09	2413.02	2450.62	2484.11	2501.46	2500.18
67.5	1987.52	2026.20	2077.21	2123.34	2169.95	2200.88	2211.89	2215.17	2215.16	2213.29
70.0	1773.67	1816.78	1857.23	1885.69	1899.59	1916.17	1929.22	1932.79	1931.36	1929.09
72.5	1549.77	1570.17	1585.23	1611.01	1626.74	1638.01	1649.94	1653.62	1650.60	1647.31
75.0	1293.84	1317.21	1331.13	1347.82	1359.98	1366.74	1374.51	1377.92	1372.59	1367.34
77.5	1048.97	1071.07	1082.71	1092.02	1098.58	1101.21	1103.38	1104.63	1097.01	1053.75
80.0	807.68	832.14	840.39	803.43	731.64	661.72	593.83	529.43	463.85	401.43
82.5	396.67	332.23	255.50	176.49	99.23	23.70	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	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
2.5	4799.01	4798.42	4797.90	4797.35	4796.79	4796.28	4795.85	4795.48	4795.19	4794.97
5.0	4763.24	4762.17	4761.24	4760.21	4759.64	4759.02	4758.55	4758.21	4756.67	4756.78
7.5	4725.60	4724.54	4723.70	4722.83	4721.87	4721.12	4720.42	4720.06	4719.79	4719.69
10.0	4685.13	4684.47	4684.01	4683.56	4683.10	4682.90	4682.22	4681.81	4681.54	4680.21
12.5	4642.26	4642.20	4642.40	4642.64	4642.91	4643.15	4643.39	4643.34	4643.20	4643.21
15.0	4597.26	4598.44	4599.12	4600.13	4601.49	4602.48	4603.57	4604.38	4604.70	4604.80
17.5	4551.86	4557.85	4563.62	4568.58	4572.30	4577.52	4581.38	4584.75	4587.53	4588.99
20.0	4523.87	4531.50	4539.01	4546.14	4552.56	4557.31	4563.43	4567.95	4571.59	4574.13
22.5	4494.01	4503.99	4513.36	4522.36	4530.81	4538.24	4544.72	4550.67	4555.64	4559.23
25.0	4462.65	4475.04	4486.79	4497.83	4508.19	4517.69	4525.81	4533.03	4539.32	4543.98
27.5	4430.25	4445.14	4459.32	4472.57	4485.06	4496.30	4506.60	4515.13	4522.62	4528.50
30.0	4396.44	4414.33	4431.11	4446.85	4461.19	4474.68	4486.67	4497.05	4505.78	4513.04
32.5	4360.87	4382.44	4402.20	4404.29	4406.46	4409.16	4412.05	4414.62	4417.04	4419.59
35.0	4283.68	4288.06	4292.38	4296.18	4300.01	4303.16	4307.98	4311.89	4315.24	4318.39
37.5	4168.20	4175.22	4180.09	4187.53	4193.31	4198.50	4203.81	4208.86	4213.37	4217.25
40.0	4052.68	4061.91	4070.54	4078.51	4085.91	4092.80	4099.54	4105.95	4111.23	4116.19
42.5	3936.38	3947.89	3959.23	3968.89	3978.38	3987.08	3995.48	4002.52	4009.14	4015.12
45.0	3820.12	3834.30	3847.49	3859.81	3870.80	3881.19	3890.67	3899.12	3907.05	3913.80
47.5	3703.15	3717.33	3735.76	3746.14	3749.75	3754.21	3758.58	3762.94	3767.18	3770.78
50.0	3568.88	3576.36	3583.36	3590.04	3595.98	3602.24	3608.58	3614.38	3619.39	3623.39
52.5	3404.29	3415.00	3424.22	3433.35	3441.99	3450.16	3458.58	3465.82	3471.01	3475.85
55.0	3239.67	3253.25	3265.35	3276.79	3287.62	3297.82	3308.11	3316.91	3323.85	3328.99
57.5	3073.74	3089.49	3106.73	3120.34	3133.11	3145.34	3157.38	3168.00	3176.06	3181.86
60.0	2909.80	2929.29	2947.73	2963.76	2978.61	2992.90	3006.00	3019.31	3028.45	3034.86
62.5	2743.60	2767.30	2782.59	2775.83	2769.19	2763.62	2759.66	2756.94	2752.78	2748.78
65.0	2497.78	2495.32	2490.11	2482.79	2475.49	2468.63	2463.40	2459.59	2454.50	2449.92
67.5	2209.89	2202.17	2199.09	2191.02	2182.64	2174.55	2167.80	2162.76	2156.49	2150.96
70.0	1923.55	1917.56	1909.67	1900.40	1890.74	1881.23	1872.72	1866.38	1858.83	1852.54
72.5	1639.32	1631.47	1621.51	1610.55	1599.59	1588.63	1578.07	1570.04	1561.45	1553.92
75.0	1358.24	1346.73	1334.55	1321.63	1308.88	1296.62	1283.88	1274.62	1264.30	1255.41
77.5	994.40	936.42	883.13	834.35	790.77	752.14	717.49	689.50	665.42	646.26

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	343.34	288.16	237.72	192.18	151.43	115.65	84.62	58.66	37.42	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>175.0</u></b>	<b><u>177.5</u></b>	<b><u>180.0</u></b>	<b><u>182.5</u></b>	<b><u>185.0</u></b>	<b><u>187.5</u></b>	<b><u>190.0</u></b>	<b><u>192.5</u></b>	<b><u>195.0</u></b>	<b><u>197.5</u></b>
<b>0.0</b>	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
<b>2.5</b>	4794.82	4794.74	4794.73	4794.71	4794.76	4794.88	4795.07	4795.33	4795.66	4796.07
<b>5.0</b>	4756.90	4757.01	4757.13	4757.01	4756.90	4756.78	4756.67	4758.37	4758.62	4759.15
<b>7.5</b>	4719.43	4719.37	4719.53	4719.46	4719.61	4719.97	4720.21	4720.63	4721.26	4721.72
<b>10.0</b>	4680.99	4681.46	4681.93	4681.70	4681.47	4680.97	4682.58	4682.95	4683.12	4683.58
<b>12.5</b>	4643.50	4643.77	4644.33	4644.21	4644.49	4644.58	4644.81	4644.65	4644.70	4644.89
<b>15.0</b>	4604.48	4605.68	4606.72	4606.38	4605.89	4607.03	4606.55	4606.22	4606.05	4605.60
<b>17.5</b>	4590.32	4591.52	4592.58	4592.34	4591.91	4590.98	4589.22	4587.16	4584.63	4581.60
<b>20.0</b>	4575.47	4577.21	4578.44	4578.13	4577.19	4575.93	4573.62	4570.85	4567.91	4562.87
<b>22.5</b>	4561.23	4563.06	4564.30	4564.14	4563.24	4560.90	4557.96	4554.15	4549.22	4543.53
<b>25.0</b>	4546.41	4548.78	4550.15	4549.96	4548.17	4545.72	4541.98	4537.05	4530.83	4523.83
<b>27.5</b>	4532.24	4534.64	4536.01	4535.79	4533.91	4530.39	4525.76	4519.58	4512.17	4503.77
<b>30.0</b>	4517.05	4520.26	4521.86	4521.44	4518.64	4515.04	4509.57	4501.93	4493.11	4482.81
<b>32.5</b>	4420.59	4421.36	4422.39	4422.96	4422.89	4422.69	4421.94	4420.92	4420.12	4418.65
<b>35.0</b>	4320.32	4320.48	4322.92	4322.55	4323.45	4322.75	4321.60	4319.93	4317.71	4315.33
<b>37.5</b>	4219.96	4221.63	4223.46	4224.21	4224.17	4223.04	4221.80	4218.58	4216.03	4211.41
<b>40.0</b>	4119.45	4120.66	4123.99	4123.81	4124.48	4123.44	4120.76	4117.24	4112.58	4107.44
<b>42.5</b>	4018.97	4021.82	4024.52	4025.56	4024.99	4024.18	4020.31	4015.42	4010.81	4003.17
<b>45.0</b>	3918.52	3920.81	3925.05	3925.19	3925.54	3923.91	3920.31	3913.67	3906.94	3898.78
<b>47.5</b>	3773.37	3775.11	3777.44	3778.98	3779.52	3779.84	3778.70	3776.69	3774.81	3772.12
<b>50.0</b>	3626.23	3626.08	3629.82	3629.54	3631.37	3630.99	3629.09	3626.33	3623.03	3618.84
<b>52.5</b>	3479.02	3480.58	3482.21	3483.26	3483.23	3482.17	3479.60	3476.06	3471.43	3465.53
<b>55.0</b>	3331.98	3331.88	3334.59	3333.89	3335.34	3333.25	3330.02	3325.54	3319.63	3312.17
<b>57.5</b>	3184.86	3186.18	3186.97	3187.37	3186.71	3184.31	3180.47	3174.95	3167.73	3158.70
<b>60.0</b>	3032.27	3037.62	3039.36	3038.03	3032.83	3035.42	3031.02	3024.46	3015.95	3006.69
<b>62.5</b>	2744.20	2740.81	2739.69	2740.71	2743.77	2747.80	2753.44	2760.46	2766.62	2773.20
<b>65.0</b>	2434.91	2438.68	2440.01	2438.05	2433.35	2447.33	2453.49	2459.92	2467.29	2474.23
<b>67.5</b>	2145.68	2141.58	2140.34	2140.41	2143.02	2146.91	2152.98	2160.28	2168.49	2175.93
<b>70.0</b>	1838.13	1839.88	1840.67	1838.15	1834.25	1846.68	1853.01	1860.84	1870.61	1878.13
<b>72.5</b>	1547.40	1542.40	1541.00	1540.10	1542.34	1546.24	1553.22	1561.58	1571.87	1580.88
<b>75.0</b>	1241.79	1241.19	1241.32	1238.32	1235.46	1245.99	1253.56	1262.70	1274.07	1284.09
<b>77.5</b>	632.39	623.46	620.66	622.01	629.12	641.29	659.47	682.59	711.35	743.70
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	37.08	58.07	83.90	114.32
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>200.0</u></b>	<b><u>202.5</u></b>	<b><u>205.0</u></b>	<b><u>207.5</u></b>	<b><u>210.0</u></b>	<b><u>212.5</u></b>	<b><u>215.0</u></b>	<b><u>217.5</u></b>	<b><u>220.0</u></b>	<b><u>222.5</u></b>
<b>0.0</b>	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
<b>2.5</b>	4796.54	4797.08	4797.71	4798.13	4798.73	4799.39	4800.11	4800.90	4801.75	4802.67
<b>5.0</b>	4759.82	4760.62	4761.42	4762.23	4763.19	4764.28	4765.51	4767.01	4768.15	4769.60
<b>7.5</b>	4722.29	4723.08	4723.93	4724.87	4726.02	4727.47	4728.61	4730.08	4731.77	4733.99
<b>10.0</b>	4684.00	4684.70	4685.41	4686.17	4687.24	4687.99	4689.02	4690.84	4691.60	4693.23
<b>12.5</b>	4645.08	4645.27	4645.40	4645.50	4645.77	4646.18	4646.83	4647.17	4648.65	4649.67

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

15.0	4605.77	4604.38	4603.71	4603.20	4602.67	4602.48	4602.06	4602.86	4602.06	4603.41
17.5	4577.91	4573.84	4569.60	4565.21	4560.20	4556.13	4554.76	4553.07	4551.83	4550.85
20.0	4557.90	4552.55	4546.75	4541.52	4533.75	4526.39	4518.93	4511.86	4503.94	4496.11
22.5	4537.26	4530.27	4522.54	4514.20	4505.57	4495.79	4486.20	4476.10	4465.67	4455.17
25.0	4515.92	4506.95	4497.06	4486.28	4475.12	4463.48	4451.45	4437.86	4423.84	4410.10
27.5	4494.86	4482.69	4470.37	4457.42	4443.65	4428.77	4412.90	4396.19	4379.36	4361.83
30.0	4470.93	4457.95	4442.94	4427.40	4410.49	4391.98	4372.71	4352.40	4332.22	4311.40
32.5	4417.13	4415.74	4414.77	4396.12	4375.48	4353.71	4330.43	4309.64	4282.65	4257.50
35.0	4312.31	4309.54	4307.13	4303.14	4299.20	4295.33	4287.35	4259.37	4230.83	4202.12
37.5	4207.48	4202.56	4197.81	4191.45	4185.12	4181.79	4173.25	4167.90	4164.96	4144.04
40.0	4101.61	4095.03	4087.60	4079.22	4070.53	4061.62	4052.56	4045.87	4036.50	4029.88
42.5	3995.57	3987.40	3977.16	3966.03	3954.82	3942.47	3931.05	3919.03	3908.02	3897.20
45.0	3889.26	3878.75	3866.14	3854.26	3837.88	3822.94	3807.71	3792.42	3778.63	3761.08
47.5	3769.03	3765.50	3754.84	3738.68	3720.54	3702.55	3684.14	3664.57	3643.56	3622.72
50.0	3614.15	3608.98	3600.96	3593.04	3585.52	3578.27	3561.17	3534.24	3508.17	3482.44
52.5	3458.60	3449.72	3439.93	3428.79	3417.79	3406.93	3399.07	3384.34	3369.70	3341.09
55.0	3302.83	3291.34	3278.49	3263.96	3248.93	3234.40	3219.85	3202.65	3186.44	3172.00
57.5	3147.01	3132.77	3116.73	3098.59	3079.64	3061.30	3041.28	3020.62	3000.70	2980.30
60.0	2991.00	2973.87	2954.39	2932.39	2909.63	2887.31	2863.47	2838.77	2814.09	2788.49
62.5	2778.63	2782.90	2785.81	2766.17	2739.75	2713.73	2685.94	2657.24	2627.15	2595.37
65.0	2481.12	2485.09	2488.28	2490.29	2492.74	2494.40	2494.59	2475.89	2440.75	2400.60
67.5	2182.56	2188.49	2193.29	2193.54	2200.72	2202.78	2203.38	2202.22	2197.61	2183.99
70.0	1886.01	1894.15	1900.02	1905.74	1911.51	1913.68	1914.76	1914.96	1910.24	1896.54
72.5	1590.71	1599.11	1608.54	1616.71	1622.54	1627.17	1629.27	1631.60	1626.71	1615.06
75.0	1295.41	1306.38	1319.36	1329.04	1337.06	1342.50	1346.82	1352.35	1347.62	1339.88
77.5	781.01	822.89	869.62	920.47	972.52	1026.28	1067.68	1074.74	1072.55	1069.28
80.0	149.56	189.46	234.03	283.29	335.49	391.08	450.77	513.91	574.39	637.41
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.84
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	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
2.5	4803.64	4804.66	4805.74	4806.88	4808.16	4809.17	4810.38	4811.65	4812.96	4814.31
5.0	4771.18	4772.89	4774.73	4776.69	4779.16	4780.73	4782.91	4785.22	4787.63	4790.15
7.5	4735.27	4737.20	4739.34	4741.70	4744.14	4746.74	4749.56	4752.59	4755.81	4759.24
10.0	4695.60	4697.02	4699.24	4701.79	4704.45	4707.35	4710.57	4714.12	4718.56	4721.83
12.5	4651.13	4652.78	4654.62	4656.91	4659.35	4662.10	4665.34	4669.95	4672.71	4676.96
15.0	4602.77	4603.70	4604.66	4606.22	4608.13	4610.51	4613.52	4616.55	4620.15	4624.39
17.5	4550.24	4550.04	4549.92	4550.18	4550.92	4552.26	4556.22	4556.48	4559.60	4563.56
20.0	4493.52	4491.20	4489.44	4487.92	4487.26	4487.51	4488.16	4489.28	4492.92	4494.53
22.5	4443.97	4433.27	4423.71	4420.15	4417.58	4416.15	4415.09	4415.01	4414.81	4417.84
25.0	4396.11	4382.05	4369.08	4355.61	4342.47	4338.78	4335.83	4334.77	4333.41	4334.17
27.5	4346.69	4327.71	4310.28	4293.60	4277.62	4262.14	4251.35	4247.67	4245.29	4244.20
30.0	4289.99	4269.01	4248.27	4227.93	4208.40	4189.77	4171.40	4153.99	4150.34	4147.64
32.5	4232.67	4207.64	4182.79	4158.34	4134.44	4111.38	4089.96	4069.17	4049.72	4043.55
35.0	4172.79	4143.52	4116.13	4087.07	4057.48	4028.25	4001.64	3976.73	3953.55	3932.32
37.5	4109.86	4075.65	4041.15	4006.52	3972.60	3939.94	3908.45	3878.94	3851.25	3825.91
40.0	4025.25	4004.87	3964.35	3924.39	3885.37	3847.88	3810.83	3775.65	3742.00	3710.57
42.5	3886.42	3877.09	3869.96	3840.15	3795.13	3750.71	3707.65	3665.69	3626.45	3589.97
45.0	3745.93	3732.35	3721.97	3712.20	3700.89	3649.75	3599.98	3553.18	3509.47	3465.10
47.5	3602.87	3585.87	3568.71	3554.75	3542.78	3535.68	3493.88	3437.97	3383.10	3331.82
50.0	3458.64	3434.79	3413.17	3392.95	3377.85	3367.33	3356.31	3314.94	3251.61	3195.68



**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

52.5	3311.45	3282.12	3252.53	3230.71	3208.83	3188.35	3170.22	3156.37	3115.54	3043.50
55.0	3157.48	3127.42	3094.70	3063.50	3033.36	3003.71	2976.19	2954.45	2934.67	2882.84
57.5	2960.64	2942.44	2927.66	2893.19	2852.77	2811.27	2776.47	2745.28	2718.94	2700.51
60.0	2761.61	2736.99	2715.24	2694.46	2664.43	2616.95	2576.95	2537.58	2501.53	2473.47
62.5	2561.27	2529.90	2502.89	2470.93	2437.63	2414.94	2377.66	2323.14	2279.08	2242.86
65.0	2359.39	2323.86	2290.44	2248.97	2212.41	2184.00	2145.78	2111.30	2061.54	2018.68
67.5	2158.86	2120.15	2081.29	2029.97	1991.96	1951.10	1908.73	1874.20	1847.09	1800.16
70.0	1884.99	1876.02	1859.30	1815.75	1773.14	1725.29	1675.19	1632.92	1599.16	1564.36
72.5	1607.11	1595.05	1574.76	1556.36	1538.32	1504.74	1445.24	1399.09	1354.68	1312.25
75.0	1336.65	1321.74	1302.44	1288.44	1265.46	1238.33	1203.85	1171.51	1123.82	1076.24
77.5	1065.11	1054.02	1037.89	1024.55	1006.96	980.62	952.66	920.97	885.04	838.47
80.0	699.38	755.02	779.24	769.26	755.32	736.59	713.12	684.12	648.39	594.07
82.5	94.61	165.52	235.20	302.44	366.23	423.85	470.57	458.08	420.46	373.46
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.31	108.21	135.19
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	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
2.5	4815.71	4817.14	4818.61	4820.12	4821.65	4823.21	4824.80	4826.40	4828.03	4827.89
5.0	4792.77	4795.49	4798.30	4801.19	4804.17	4807.22	4810.34	4813.52	4816.76	4816.47
7.5	4763.22	4766.47	4770.33	4774.38	4778.61	4783.00	4787.55	4792.25	4797.10	4796.64
10.0	4726.08	4730.63	4735.50	4740.66	4746.11	4751.84	4757.82	4764.06	4770.54	4769.85
12.5	4681.68	4686.85	4693.49	4698.39	4704.81	4711.68	4718.97	4726.67	4734.77	4733.82
15.0	4630.66	4634.57	4640.59	4647.27	4654.59	4662.54	4671.10	4680.25	4689.97	4688.81
17.5	4568.33	4573.99	4580.54	4589.47	4595.46	4604.14	4613.72	4624.19	4635.53	4634.10
20.0	4498.64	4504.77	4509.77	4516.95	4525.31	4534.82	4545.46	4557.22	4570.06	4568.52
22.5	4423.37	4425.61	4431.48	4438.79	4447.27	4457.15	4468.51	4481.34	4495.63	4493.98
25.0	4336.20	4339.89	4348.25	4351.91	4360.44	4370.73	4382.81	4396.65	4412.26	4410.59
27.5	4244.64	4247.14	4251.61	4258.24	4268.74	4277.51	4290.24	4305.16	4322.27	4320.14
30.0	4147.98	4147.55	4150.74	4156.35	4164.47	4175.24	4188.64	4204.67	4223.31	4220.84
32.5	4040.25	4039.52	4041.30	4045.94	4053.77	4064.54	4078.45	4095.55	4115.80	4112.90
35.0	3926.38	3923.61	3923.78	3929.94	3933.75	3943.90	3957.82	3975.53	3997.03	3993.68
37.5	3805.49	3798.65	3796.52	3796.49	3801.66	3811.08	3824.82	3843.10	3865.94	3862.21
40.0	3682.35	3664.52	3658.65	3657.26	3660.74	3669.15	3682.64	3701.30	3725.20	3720.92
42.5	3556.80	3527.10	3513.81	3509.20	3510.26	3520.65	3531.53	3551.59	3577.60	3572.31
45.0	3423.66	3386.91	3364.76	3353.36	3354.32	3361.43	3375.19	3396.52	3424.80	3418.37
47.5	3283.50	3240.81	3203.48	3189.57	3182.69	3187.11	3198.98	3219.86	3249.81	3243.75
50.0	3139.94	3084.20	3035.42	2998.93	2989.96	2990.10	2999.60	3019.00	3048.79	3043.15
52.5	2973.50	2910.82	2858.85	2812.28	2794.54	2792.44	2799.72	2817.96	2847.69	2841.40
55.0	2807.82	2740.98	2681.55	2628.30	2589.91	2580.42	2584.16	2601.89	2633.69	2625.97
57.5	2643.93	2561.56	2485.83	2422.13	2372.00	2359.37	2362.35	2379.79	2411.72	2404.75
60.0	2447.74	2371.78	2292.63	2226.07	2172.11	2146.40	2146.71	2162.76	2195.13	2188.62
62.5	2210.94	2192.68	2107.32	2032.18	1969.21	1926.90	1929.99	1933.72	1965.32	1959.61
65.0	1982.15	1954.84	1927.68	1831.54	1753.74	1691.60	1677.42	1686.21	1716.63	1711.86
67.5	1750.70	1712.78	1682.32	1618.30	1536.30	1471.82	1441.51	1444.62	1474.13	1470.85
70.0	1519.79	1470.34	1429.82	1406.17	1319.32	1243.38	1199.04	1198.78	1224.86	1224.42
72.5	1279.14	1235.41	1188.23	1150.58	1115.12	1031.79	970.87	963.48	986.82	989.73
75.0	1021.80	984.37	963.21	917.75	888.15	828.08	759.43	735.12	751.55	755.93
77.5	771.12	719.67	700.21	693.43	645.13	634.92	568.69	532.05	543.99	549.23
80.0	525.89	459.45	430.30	414.39	380.42	379.96	373.72	326.53	355.33	359.13
82.5	321.25	267.18	209.20	158.00	153.79	136.11	153.27	142.25	202.71	212.37
85.0	141.76	120.79	86.45	56.70	44.16	31.90	27.35	30.77	90.41	105.73
87.5	0.00	0.00	0.00	6.99	11.97	12.72	18.42	24.49	16.11	39.72

IES INDOOR REPORT  
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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 9.35 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	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
2.5	4827.76	4827.65	4827.56	4827.48	4827.42	4827.38	4827.35	4827.34	4827.34	4827.37
5.0	4816.24	4816.05	4815.92	4815.85	4815.82	4815.86	4815.95	4816.09	4816.29	4816.55
7.5	4796.32	4796.14	4796.09	4796.19	4796.42	4796.80	4797.74	4797.87	4798.49	4799.22
10.0	4769.39	4769.15	4769.15	4769.39	4769.85	4770.55	4771.49	4772.66	4774.71	4775.53
12.5	4733.26	4733.09	4733.32	4733.95	4736.06	4736.32	4737.97	4739.99	4742.38	4746.17
15.0	4688.20	4688.14	4688.63	4689.67	4691.25	4693.37	4697.45	4699.18	4702.85	4707.05
17.5	4633.52	4633.79	4634.91	4638.65	4639.36	4642.43	4646.29	4650.92	4656.20	4662.10
20.0	4568.04	4568.62	4570.23	4572.88	4576.55	4582.23	4586.91	4593.56	4602.68	4609.18
22.5	4493.75	4494.96	4497.57	4501.50	4506.61	4513.08	4523.20	4529.49	4539.13	4549.56
25.0	4410.67	4412.48	4416.00	4421.22	4431.26	4436.39	4446.16	4457.43	4469.48	4483.41
27.5	4320.22	4322.51	4328.87	4333.29	4341.57	4351.98	4364.49	4378.52	4394.02	4410.47
30.0	4220.96	4223.67	4228.98	4236.86	4247.09	4259.39	4275.08	4290.99	4310.07	4330.43
32.5	4113.15	4116.57	4123.08	4132.18	4144.20	4159.15	4177.13	4197.46	4219.78	4229.11
35.0	3994.12	3998.37	4006.38	4020.83	4033.09	4051.69	4072.88	4096.99	4107.21	4121.09
37.5	3863.07	3868.56	3878.40	3892.46	3911.78	3932.68	3958.24	3973.20	3988.82	4007.18
40.0	3721.97	3728.38	3740.14	3756.97	3778.34	3804.42	3825.07	3841.55	3861.72	3885.04
42.5	3572.97	3582.86	3592.78	3611.70	3636.51	3663.88	3681.39	3702.26	3726.69	3755.63
45.0	3419.13	3426.98	3441.72	3462.31	3495.01	3509.80	3531.38	3558.37	3590.36	3622.58
47.5	3246.69	3258.47	3276.64	3305.06	3328.55	3349.27	3376.54	3409.45	3446.26	3487.64
50.0	3048.10	3063.35	3088.49	3123.25	3149.59	3179.26	3216.71	3256.75	3298.11	3346.75
52.5	2846.77	2863.57	2890.78	2923.54	2952.53	2986.42	3031.96	3084.93	3142.57	3176.09
55.0	2632.47	2653.26	2687.23	2718.35	2752.17	2794.75	2844.45	2901.85	2945.49	2966.64
57.5	2412.24	2433.72	2466.58	2495.67	2538.32	2593.00	2657.03	2704.77	2720.57	2749.22
60.0	2198.46	2224.12	2254.50	2286.30	2330.37	2386.49	2444.15	2468.47	2496.62	2530.29
62.5	1981.24	2004.67	2035.08	2076.24	2129.64	2194.16	2206.18	2234.05	2269.62	2311.23
65.0	1730.30	1767.80	1804.89	1857.38	1931.32	1949.42	1972.36	2005.06	2047.22	2097.47
67.5	1494.00	1527.42	1570.78	1631.80	1678.70	1704.34	1733.64	1778.80	1823.34	1845.97
70.0	1250.41	1284.33	1337.63	1404.90	1425.57	1457.90	1505.33	1534.86	1561.99	1591.58
72.5	1022.58	1060.01	1117.98	1145.16	1177.37	1221.66	1255.11	1281.23	1307.83	1343.90
75.0	788.20	837.79	887.14	909.61	947.74	974.83	1003.38	1035.22	1074.14	1104.17
77.5	582.68	637.09	657.53	690.47	716.55	741.75	770.07	803.86	819.45	829.20
80.0	399.56	429.29	458.36	483.76	504.69	532.02	549.40	563.17	568.51	569.82
82.5	243.45	258.42	280.19	302.33	323.85	340.48	346.10	344.07	336.00	324.25
85.0	122.59	132.15	147.51	163.47	175.75	176.12	156.09	119.80	81.33	40.29
87.5	43.99	52.98	49.54	23.91	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	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
2.5	4827.40	4827.46	4827.68	4827.60	4827.62	4827.66	4827.70	4827.76	4827.82	4827.90
5.0	4816.86	4817.22	4818.16	4818.08	4818.44	4818.85	4819.29	4819.78	4820.29	4821.03
7.5	4800.07	4801.03	4802.11	4803.25	4804.39	4805.74	4806.96	4808.83	4809.60	4810.78
10.0	4777.23	4779.03	4781.10	4783.29	4785.43	4787.76	4790.78	4792.50	4794.79	4797.77
12.5	4747.94	4750.98	4754.37	4757.88	4761.28	4764.94	4768.72	4772.63	4776.79	4780.57
15.0	4711.68	4716.19	4721.16	4726.40	4731.76	4737.51	4743.13	4750.16	4754.60	4760.98
17.5	4670.75	4675.10	4681.76	4689.01	4696.87	4704.91	4712.78	4720.75	4728.74	4736.79
20.0	4617.99	4627.20	4636.81	4646.98	4657.61	4667.66	4677.64	4688.57	4693.24	4698.56
22.5	4560.32	4572.07	4584.79	4598.00	4612.88	4618.74	4625.46	4632.68	4638.72	4645.92

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**CANDELA TABULATION - (Cont.)**

25.0	4497.41	4513.01	4528.80	4535.77	4543.24	4551.96	4561.33	4571.19	4581.33	4591.53
27.5	4428.10	4440.20	4448.83	4459.10	4470.48	4482.44	4495.35	4506.27	4519.48	4532.83
30.0	4340.90	4352.38	4363.93	4377.01	4391.22	4406.58	4422.98	4439.49	4455.07	4471.25
32.5	4241.76	4256.64	4273.55	4290.25	4308.27	4327.15	4346.86	4367.45	4388.81	4410.93
35.0	4137.81	4156.08	4177.00	4200.54	4222.84	4244.91	4268.04	4292.40	4317.28	4342.80
37.5	4027.60	4049.76	4075.01	4101.72	4128.68	4157.07	4185.74	4214.83	4234.26	4240.50
40.0	3910.88	3938.92	3968.77	4000.01	4033.10	4066.85	4086.03	4092.40	4102.07	4114.15
42.5	3787.64	3822.07	3857.88	3895.13	3921.95	3931.55	3942.62	3955.45	3971.00	3983.35
45.0	3658.09	3698.99	3742.31	3756.11	3767.58	3781.85	3797.97	3815.00	3834.98	3851.85
47.5	3531.84	3565.17	3575.96	3592.05	3611.82	3629.25	3650.49	3672.77	3695.60	3719.22
50.0	3380.05	3392.93	3405.48	3424.06	3448.79	3474.34	3500.78	3528.68	3556.58	3584.89
52.5	3189.49	3208.70	3232.45	3256.86	3284.25	3316.89	3349.81	3382.86	3416.52	3426.82
55.0	2988.91	3017.22	3050.41	3085.72	3119.98	3157.32	3190.22	3201.49	3214.69	3229.00
57.5	2782.88	2817.54	2860.91	2908.02	2947.95	2958.12	2974.09	2991.42	3009.96	3030.05
60.0	2574.38	2618.48	2664.47	2692.10	2714.11	2733.55	2754.69	2780.59	2804.81	2829.99
62.5	2361.85	2404.64	2422.59	2446.38	2478.62	2507.09	2534.33	2567.57	2598.92	2629.41
65.0	2120.79	2151.15	2181.41	2207.58	2242.24	2279.41	2313.70	2352.10	2393.08	2429.05
67.5	1871.06	1903.24	1940.95	1974.62	2012.28	2053.04	2094.15	2106.60	2107.53	2101.37
70.0	1623.22	1663.81	1704.75	1745.20	1770.15	1766.42	1765.38	1760.93	1758.41	1753.17
72.5	1383.71	1426.64	1444.18	1442.07	1437.65	1431.64	1428.05	1421.75	1414.23	1408.37
75.0	1120.13	1124.46	1127.82	1123.48	1115.11	1105.72	1099.27	1090.94	1076.42	1067.34
77.5	832.33	831.36	823.87	811.86	798.62	787.73	771.63	758.81	743.77	727.41
80.0	561.69	551.16	531.90	509.72	487.41	466.69	434.13	401.81	367.97	331.52
82.5	301.81	265.54	225.67	184.04	143.01	102.16	58.68	14.36	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	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33	4832.33
2.5	4827.99	4828.08	4828.19	4828.31	4828.55	4828.50	4828.49	4828.49	4828.49	4828.50
5.0	4821.29	4821.70	4822.15	4822.62	4823.12	4823.52	4823.78	4824.05	4824.35	4824.80
7.5	4812.03	4813.48	4814.37	4815.40	4816.47	4817.44	4818.26	4819.11	4819.89	4820.30
10.0	4799.55	4801.97	4804.47	4806.45	4808.53	4810.36	4811.89	4813.47	4814.65	4815.87
12.5	4784.55	4788.14	4791.63	4795.10	4798.58	4801.76	4804.62	4807.06	4809.09	4810.84
15.0	4765.85	4771.77	4777.08	4782.32	4786.87	4791.40	4796.56	4799.71	4803.12	4805.59
17.5	4744.97	4752.14	4756.57	4760.28	4763.38	4766.20	4768.84	4771.61	4773.92	4775.79
20.0	4703.04	4708.20	4713.44	4719.06	4722.88	4727.49	4731.58	4735.17	4739.44	4741.60
22.5	4653.48	4660.73	4668.32	4674.90	4681.20	4687.49	4693.37	4698.41	4702.92	4707.05
25.0	4601.32	4610.99	4620.53	4629.68	4638.57	4646.62	4654.32	4661.14	4666.91	4672.20
27.5	4546.09	4558.60	4571.17	4583.17	4594.40	4604.99	4615.62	4623.45	4630.68	4637.00
30.0	4488.04	4504.33	4519.86	4534.99	4549.12	4562.78	4574.08	4584.71	4593.96	4601.69
32.5	4427.60	4447.66	4466.82	4485.08	4502.74	4506.28	4509.78	4513.05	4516.36	4518.42
35.0	4366.80	4374.88	4381.12	4387.42	4394.58	4400.28	4406.04	4411.33	4415.88	4419.91
37.5	4249.51	4260.21	4265.69	4274.99	4284.11	4293.05	4301.91	4308.79	4316.10	4320.89
40.0	4124.94	4138.18	4149.50	4161.28	4173.30	4184.97	4195.95	4205.89	4214.18	4221.76
42.5	3999.00	4015.48	4032.04	4046.77	4061.56	4075.98	4089.74	4102.38	4114.01	4121.88
45.0	3871.49	3891.74	3912.32	3932.68	3949.25	3966.52	3983.33	3998.31	4011.22	4022.00
47.5	3743.86	3766.89	3791.37	3815.09	3836.61	3850.24	3855.97	3861.78	3867.07	3870.70
50.0	3614.74	3637.66	3646.49	3656.06	3664.10	3673.36	3679.89	3687.56	3694.46	3699.83
52.5	3440.23	3448.20	3459.74	3472.21	3483.60	3494.12	3503.97	3513.52	3521.97	3528.99
55.0	3244.62	3258.15	3273.26	3288.37	3303.12	3315.75	3328.06	3339.32	3349.30	3357.95
57.5	3049.91	3069.37	3087.01	3104.80	3122.54	3137.46	3152.31	3165.20	3176.77	3186.94
60.0	2855.44	2879.29	2900.75	2921.64	2941.84	2959.65	2976.56	2993.10	3004.60	3016.09

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

62.5	2660.46	2689.48	2715.39	2739.08	2753.80	2742.49	2732.03	2723.21	2715.33	2709.48
65.0	2445.53	2437.06	2426.35	2413.50	2402.53	2392.40	2382.99	2373.51	2365.82	2358.94
67.5	2093.81	2085.46	2075.71	2063.57	2052.97	2043.10	2032.66	2024.28	2016.72	2009.64
70.0	1745.17	1736.06	1727.45	1715.05	1704.25	1695.83	1684.07	1675.47	1668.67	1660.68
72.5	1399.58	1389.14	1379.07	1367.71	1356.47	1346.66	1336.52	1327.12	1319.32	1312.01
75.0	1056.25	1044.35	1032.76	1021.42	1010.62	999.48	988.63	979.13	971.05	963.88
77.5	716.02	693.19	666.47	641.24	615.05	591.32	567.90	546.99	528.01	511.57
80.0	298.01	263.74	229.49	197.12	165.31	135.98	108.67	83.99	62.24	43.51
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	4832.33	4832.33	4832.33	4832.33	4832.33
2.5	4828.52	4828.54	4828.58	4828.61	4828.66
5.0	4824.79	4824.82	4824.86	4824.92	4824.99
7.5	4820.73	4821.15	4821.19	4821.24	4821.32
10.0	4816.64	4817.17	4817.56	4817.59	4817.65
12.5	4812.41	4813.27	4813.97	4813.95	4813.98
15.0	4807.70	4809.49	4810.09	4810.33	4810.30
17.5	4777.12	4778.11	4778.44	4778.37	4778.17
20.0	4743.61	4745.18	4746.17	4746.26	4746.03
22.5	4710.10	4712.26	4713.90	4714.14	4713.89
25.0	4676.27	4679.17	4681.38	4682.02	4681.75
27.5	4642.28	4645.93	4648.67	4649.72	4649.62
30.0	4608.44	4612.70	4615.97	4617.49	4617.48
32.5	4520.56	4522.10	4522.74	4522.89	4522.58
35.0	4423.07	4425.50	4427.14	4427.67	4427.67
37.5	4326.08	4328.90	4331.68	4332.40	4332.77
40.0	4227.55	4232.18	4235.63	4237.10	4237.87
42.5	4129.59	4135.73	4139.73	4141.77	4142.97
45.0	4032.07	4038.27	4043.80	4046.42	4048.06
47.5	3874.39	3877.05	3879.38	3880.20	3880.99
50.0	3704.79	3708.81	3711.84	3713.22	3713.91
52.5	3535.22	3540.55	3544.31	3546.25	3546.84
55.0	3365.45	3372.04	3377.19	3379.37	3379.76
57.5	3195.66	3203.44	3208.95	3212.18	3212.68
60.0	3025.94	3034.85	3041.30	3045.12	3045.60
62.5	2703.29	2700.08	2697.84	2696.49	2695.50
65.0	2354.02	2350.03	2347.56	2346.16	2345.40
67.5	2003.92	2000.12	1997.34	1995.85	1995.30
70.0	1654.52	1650.55	1647.19	1645.55	1645.19
72.5	1305.30	1300.62	1297.08	1295.27	1295.09
75.0	956.23	951.04	947.02	945.00	944.99
77.5	497.27	486.35	478.34	473.70	472.50
80.0	27.95	15.78	7.03	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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZX-EX-I4-80W-5000K-D120.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1779.43	11.50	11.50
0-30	3850.24	25.00	25.00
0-40	6468.24	42.00	42.00
0-60	12064.47	78.30	78.30
0-80	15322.44	99.40	99.40
0-90	15413.25	100.00	100.00
10-90	14956.79	97.00	97.00
20-40	4688.81	30.40	30.40
20-50	7551.2	49.00	49.00
40-70	7758.52	50.30	50.30
60-80	3257.98	21.10	21.10
70-80	1095.68	7.10	7.10
80-90	90.81	0.60	0.60
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	15413.25	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	456.46
10-20	1322.97
20-30	2070.81
30-40	2618.00
40-50	2862.39
50-60	2733.83
60-70	2162.3
70-80	1095.68
80-90	90.81
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

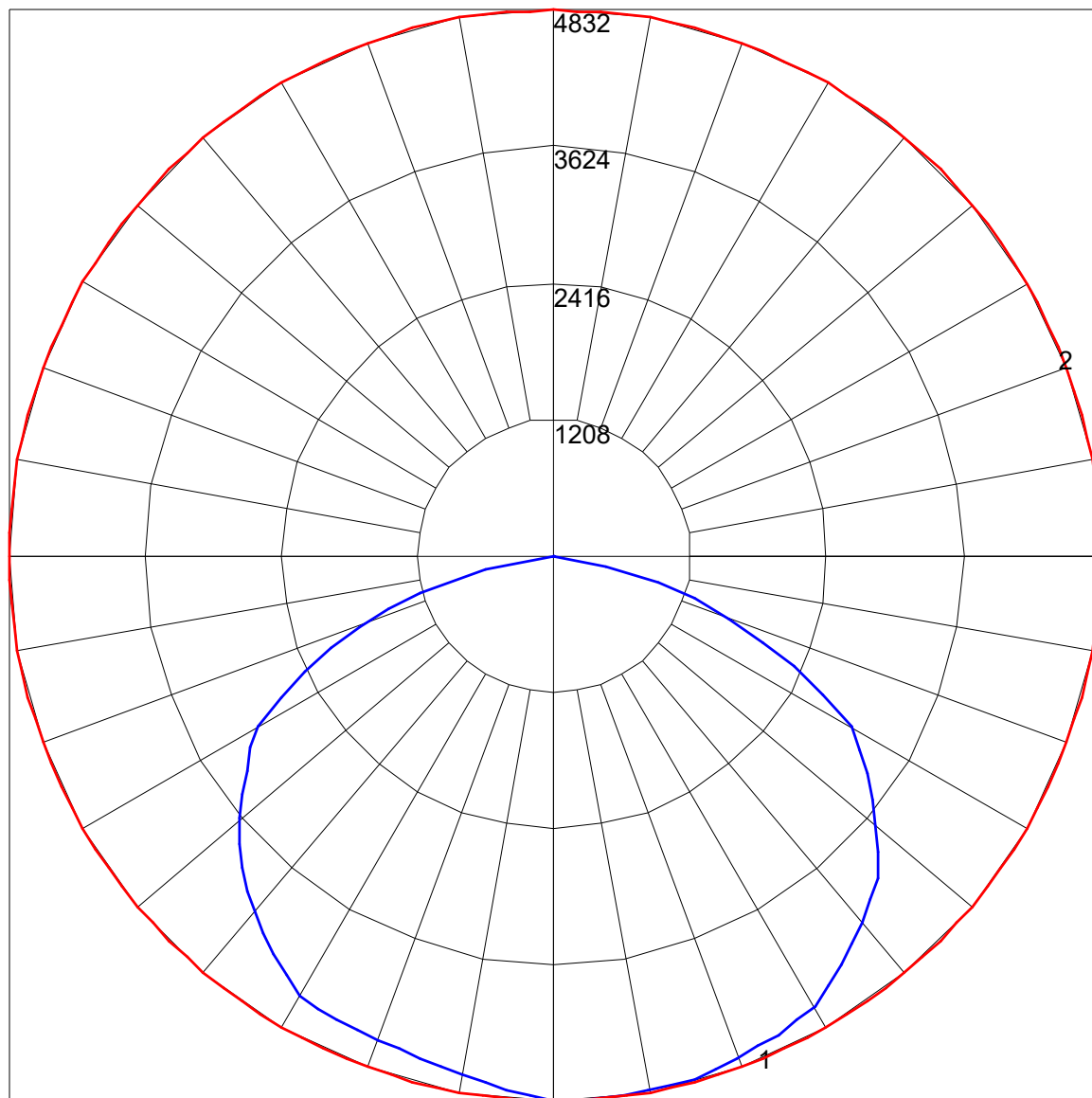
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZX-EX-I4-80W-5000K-D120.IES**

**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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	55	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 4832.33 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.)