

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 1
[TESTLAB] BEGHELLI
[TESTDATE] 2018-08-02
[ISSUEDATE] 2018-10-20 08:24:27
[NEARFIELD]
[LAMPPOSITION] 0,0
[OTHER]
[MANUFAC] BEGHELLI
[LUMINAIRE] HZCAS35LHTHO5K

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

CHARACTERISTICS

Lumens Per Lamp	23996 (1 lamp)
Total Lamp Lumens	23996
Luminaire Lumens	24003
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	198.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
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>
0.0	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8900.07	8900.11	8900.22	8900.41	8900.67	8901.00	8901.42	8901.90	8902.46	8903.09
5.0	8860.99	8860.95	8861.05	8861.31	8861.72	8862.28	8863.00	8863.87	8864.90	8866.05
7.5	8821.91	8821.66	8821.64	8821.83	8822.22	8822.82	8823.58	8824.27	8825.02	8826.03
10.0	8782.82	8782.26	8782.00	8781.89	8782.03	8782.20	8782.17	8782.47	8782.34	8782.53
12.5	8743.74	8742.74	8742.06	8741.41	8740.85	8739.93	8739.05	8738.03	8736.59	8734.69
15.0	8704.66	8703.12	8701.72	8700.19	8698.39	8696.36	8694.15	8690.78	8687.29	8683.54
17.5	8561.29	8560.42	8560.81	8562.14	8564.02	8566.42	8568.97	8572.05	8574.77	8579.87
20.0	8417.92	8417.22	8417.79	8418.72	8420.06	8421.75	8423.40	8424.20	8427.45	8430.43
22.5	8274.55	8274.03	8274.66	8275.32	8275.91	8276.24	8276.50	8276.69	8277.38	8278.27
25.0	8131.17	8130.98	8131.77	8131.55	8131.07	8130.08	8128.48	8126.81	8125.08	8123.40
27.5	7987.80	7987.90	7988.41	7987.38	7985.77	7983.00	7979.46	7975.41	7970.19	7967.22
30.0	7844.43	7844.87	7845.06	7843.14	7840.37	7835.18	7829.22	7821.44	7814.86	7808.53
32.5	7465.66	7468.10	7474.66	7483.67	7495.78	7510.37	7528.37	7548.03	7573.96	7604.78
35.0	7086.89	7089.05	7095.29	7103.68	7115.43	7129.86	7146.14	7165.78	7191.81	7220.48
37.5	6708.12	6709.94	6715.77	6723.78	6735.12	6748.72	6764.31	6784.64	6808.42	6834.84
40.0	6329.35	6330.77	6335.88	6343.95	6354.46	6367.71	6382.77	6401.42	6421.90	6447.51
42.5	5950.58	5951.56	5955.97	5964.00	5974.00	5985.86	6001.09	6016.86	6034.73	6057.21
45.0	5571.81	5572.29	5576.04	5583.63	5593.56	5604.41	5617.91	5630.87	5646.69	5667.73
47.5	5228.15	5229.02	5230.38	5234.50	5240.70	5246.94	5253.16	5257.40	5264.24	5278.97
50.0	4884.48	4885.97	4886.14	4888.74	4894.03	4897.73	4898.80	4898.99	4898.67	4908.73
52.5	4540.82	4543.28	4541.49	4542.44	4546.63	4547.89	4543.93	4538.22	4530.76	4534.49
55.0	4197.15	4200.33	4197.18	4197.02	4200.44	4196.51	4188.17	4174.30	4161.13	4159.22
57.5	3853.48	3857.25	3852.43	3851.13	3852.87	3844.10	3831.98	3807.45	3791.35	3785.28
60.0	3509.82	3514.16	3507.53	3505.29	3505.20	3491.20	3474.51	3438.96	3420.94	3415.01
62.5	3030.83	3035.72	3034.18	3038.92	3045.92	3043.29	3038.70	3015.44	3014.66	3027.74
65.0	2551.83	2556.06	2556.01	2561.33	2567.08	2567.24	2563.24	2547.23	2553.71	2568.17
67.5	2072.84	2076.45	2078.05	2083.29	2088.55	2092.43	2090.14	2082.99	2094.31	2110.73
70.0	1593.84	1596.91	1600.27	1606.01	1610.71	1618.70	1619.12	1621.89	1636.03	1655.64
72.5	1114.84	1117.41	1122.63	1127.99	1133.46	1145.25	1150.32	1162.33	1178.84	1202.24
75.0	635.84	637.95	645.12	649.89	656.69	673.53	683.60	704.04	723.54	750.92
77.5	317.92	319.13	323.20	325.98	330.41	339.92	346.46	359.02	370.25	385.98
80.0	0.00	1.19	4.75	10.57	18.57	28.88	40.84	55.14	70.88	88.76
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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8903.80	8904.60	8905.47	8906.41	8907.42	8908.49	8909.62	8910.81	8912.06	8913.37
5.0	8867.22	8868.37	8869.67	8871.14	8872.76	8874.44	8875.96	8877.64	8879.48	8881.48
7.5	8826.94	8827.81	8828.96	8830.30	8831.04	8832.09	8833.44	8834.91	8836.16	8839.14
10.0	8782.37	8781.94	8781.76	8781.47	8781.38	8781.48	8781.01	8781.02	8781.37	8781.59
12.5	8732.80	8730.92	8728.83	8726.39	8724.28	8722.15	8720.55	8718.18	8716.38	8714.90
15.0	8679.45	8674.94	8670.47	8666.36	8661.39	8656.91	8652.48	8648.53	8643.89	8640.03
17.5	8584.89	8591.01	8597.77	8601.46	8593.15	8586.83	8579.28	8571.61	8564.79	8558.82
20.0	8434.15	8438.50	8444.53	8450.98	8458.53	8467.44	8478.31	8491.60	8480.80	8469.77
22.5	8279.86	8283.12	8286.76	8291.34	8297.61	8305.19	8313.68	8322.35	8334.31	8347.20
25.0	8123.50	8123.86	8125.42	8128.18	8132.24	8132.90	8141.87	8148.64	8156.29	8165.43
27.5	7964.16	7962.14	7960.86	7960.57	7960.48	7961.42	7962.52	7964.12	7967.95	7968.76
30.0	7803.06	7797.48	7793.16	7788.58	7784.06	7778.68	7774.25	7771.15	7769.48	7767.76

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CANDELA TABULATION - (Cont.)

32.5	7639.00	7630.88	7621.76	7611.95	7598.08	7589.23	7578.28	7566.08	7549.54	7531.74
35.0	7254.98	7292.93	7334.73	7375.86	7410.77	7391.55	7366.55	7331.88	7289.42	7261.05
37.5	6864.23	6903.56	6940.81	6977.33	7015.95	7055.15	7084.41	7067.03	7019.91	6989.27
40.0	6477.71	6510.58	6537.87	6562.01	6588.43	6613.87	6635.21	6662.52	6712.89	6745.54
42.5	6086.45	6110.83	6121.47	6133.15	6153.78	6175.99	6210.93	6246.58	6305.89	6371.58
45.0	5691.72	5699.02	5692.48	5701.39	5721.54	5751.58	5789.13	5838.91	5894.11	5952.55
47.5	5290.85	5267.22	5259.29	5280.53	5309.30	5341.69	5381.95	5426.97	5470.46	5506.44
50.0	4902.14	4867.94	4853.84	4872.11	4903.76	4936.27	4972.20	5005.07	5022.89	5057.90
52.5	4517.56	4487.78	4485.31	4494.95	4514.89	4536.75	4555.58	4556.12	4560.75	4609.64
55.0	4139.09	4116.71	4110.86	4114.24	4128.62	4138.49	4141.57	4111.88	4117.74	4164.03
57.5	3766.53	3746.79	3726.78	3730.75	3738.82	3748.12	3721.12	3701.52	3721.47	3746.36
60.0	3400.35	3376.93	3349.79	3350.93	3353.58	3345.96	3305.78	3309.33	3324.25	3339.98
62.5	3033.45	2998.91	2970.68	2968.87	2965.54	2940.14	2911.42	2919.05	2925.91	2926.94
65.0	2573.60	2552.08	2550.81	2564.17	2571.34	2538.59	2527.71	2528.24	2523.21	2505.67
67.5	2117.51	2103.02	2112.91	2125.54	2133.45	2111.41	2124.91	2131.31	2112.69	2102.47
70.0	1663.52	1661.37	1676.89	1691.45	1695.80	1693.25	1709.18	1716.21	1706.42	1707.90
72.5	1214.17	1223.77	1243.38	1261.53	1268.64	1280.83	1299.78	1309.67	1315.38	1316.58
75.0	769.42	788.69	812.77	834.85	850.66	872.31	896.60	916.88	933.84	941.63
77.5	396.94	406.95	418.26	426.25	439.85	468.12	499.08	529.89	558.51	579.65
80.0	106.60	124.70	143.66	161.56	178.79	194.67	209.68	226.32	236.71	244.82
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.07	31.87	53.25
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8914.78	8916.16	8917.53	8918.94	8920.39	8921.90	8923.44	8925.03	8926.65	8928.31
5.0	8883.62	8885.78	8888.04	8890.22	8892.55	8895.03	8897.67	8900.45	8903.36	8906.41
7.5	8839.58	8841.12	8843.68	8845.74	8848.14	8850.85	8853.88	8856.16	8860.72	8864.33
10.0	8782.28	8782.03	8784.39	8785.53	8787.85	8789.35	8791.93	8794.79	8798.18	8802.10
12.5	8713.76	8713.28	8712.63	8712.28	8712.64	8713.63	8715.12	8717.39	8720.45	8721.81
15.0	8636.16	8633.21	8630.97	8629.54	8627.65	8628.73	8629.35	8631.03	8633.65	8637.15
17.5	8552.83	8547.40	8542.45	8538.37	8535.58	8533.79	8533.43	8534.07	8535.62	8538.71
20.0	8460.01	8451.48	8443.61	8436.62	8430.50	8425.40	8422.10	8419.88	8419.67	8421.39
22.5	8358.28	8343.79	8330.85	8319.38	8309.29	8301.19	8294.50	8289.61	8286.92	8286.12
25.0	8176.97	8190.62	8206.42	8190.64	8176.19	8164.03	8152.95	8143.60	8136.75	8132.39
27.5	7981.63	7992.19	8006.44	8020.93	8028.70	8004.95	7978.73	7954.47	7934.33	7915.46
30.0	7766.80	7768.31	7771.77	7768.61	7774.59	7775.78	7728.57	7699.11	7670.66	7650.35
32.5	7515.11	7498.60	7489.14	7470.54	7470.89	7472.32	7486.06	7460.15	7440.90	7427.28
35.0	7232.43	7214.75	7201.42	7187.78	7199.56	7214.31	7235.15	7261.03	7237.21	7218.89
37.5	6969.68	6955.85	6939.08	6946.15	6950.78	6961.63	6979.27	7003.63	7023.46	6998.24
40.0	6725.47	6709.52	6698.57	6692.68	6692.64	6697.34	6707.81	6725.74	6754.36	6761.74
42.5	6444.83	6461.43	6443.17	6428.50	6416.53	6405.89	6400.37	6411.33	6436.59	6471.22
45.0	6017.44	6096.82	6173.18	6135.55	6091.15	6061.70	6051.85	6052.15	6054.36	6061.53
47.5	5577.64	5646.27	5710.67	5755.72	5729.28	5707.71	5684.13	5670.06	5683.24	5702.81
50.0	5115.12	5173.33	5214.13	5268.88	5351.91	5375.20	5352.04	5344.06	5343.17	5348.58
52.5	4660.34	4700.67	4751.93	4817.03	4891.92	4987.99	5018.71	4995.38	4970.36	4968.27
55.0	4208.38	4254.02	4298.68	4346.60	4422.92	4510.72	4579.12	4580.75	4559.35	4560.44
57.5	3775.92	3804.87	3822.98	3880.29	3944.23	4008.85	4056.85	4141.54	4162.36	4142.23
60.0	3352.56	3344.43	3360.92	3412.01	3472.69	3509.90	3567.96	3650.18	3743.48	3728.72
62.5	2921.68	2916.06	2936.65	2970.60	2996.98	3026.44	3087.45	3151.55	3205.62	3292.48
65.0	2498.56	2498.42	2506.69	2527.72	2528.55	2560.17	2597.34	2630.18	2692.78	2767.38
67.5	2089.70	2083.29	2083.94	2078.72	2091.55	2105.91	2108.00	2139.22	2185.02	2230.94

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70.0	1686.70	1663.44	1658.32	1653.40	1661.93	1664.11	1670.24	1672.50	1695.45	1735.35
72.5	1302.29	1284.68	1260.60	1239.08	1245.79	1251.76	1256.95	1262.75	1265.85	1283.18
75.0	941.89	939.40	927.07	910.82	888.41	858.85	875.61	885.78	895.05	901.87
77.5	595.88	607.78	614.72	615.80	609.06	595.05	574.55	543.22	558.93	572.15
80.0	264.02	293.68	319.45	339.76	351.92	357.05	354.26	339.63	314.66	290.79
82.5	72.24	88.29	101.57	112.00	118.31	140.25	159.72	168.88	168.12	161.09
85.0	0.00	0.00	0.00	0.00	0.00	14.60	28.17	39.08	48.89	62.36
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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8929.99	8931.71	8933.44	8935.19	8936.96	8938.73	8940.52	8938.71	8936.90	8935.11
5.0	8909.57	8912.85	8915.72	8919.43	8923.16	8926.90	8930.65	8926.86	8923.08	8919.31
7.5	8868.25	8872.48	8877.01	8881.83	8886.93	8892.31	8897.94	8892.30	8886.91	8881.80
10.0	8806.53	8811.48	8816.94	8820.85	8828.43	8836.04	8843.66	8836.08	8828.53	8821.00
12.5	8728.83	8734.05	8740.06	8746.84	8754.38	8762.68	8771.72	8762.80	8754.62	8747.20
15.0	8641.81	8647.59	8654.48	8662.44	8669.55	8681.00	8692.47	8681.20	8669.96	8663.03
17.5	8543.32	8549.14	8556.15	8564.73	8574.85	8586.49	8599.59	8586.68	8575.24	8565.30
20.0	8424.71	8430.13	8437.61	8447.13	8454.93	8471.18	8487.46	8471.62	8455.82	8448.39
22.5	8287.84	8288.75	8298.33	8307.01	8318.39	8332.46	8349.24	8333.19	8319.83	8309.14
25.0	8130.34	8129.64	8133.51	8141.76	8154.19	8168.82	8190.75	8171.31	8158.94	8148.47
27.5	7902.06	7894.91	7893.87	7898.57	7909.43	7926.40	7949.41	7930.16	7916.92	7909.74
30.0	7635.73	7629.92	7630.50	7636.10	7647.08	7660.66	7686.55	7662.97	7652.01	7644.05
32.5	7417.75	7413.48	7410.68	7421.81	7434.38	7452.82	7477.15	7455.75	7440.23	7430.56
35.0	7205.97	7199.03	7197.46	7202.72	7214.85	7230.47	7259.69	7233.82	7221.50	7212.58
37.5	6980.15	6968.45	6964.52	6968.01	6979.15	6998.57	7026.25	7002.23	6986.43	6978.87
40.0	6736.42	6719.58	6709.60	6709.72	6720.99	6738.12	6774.84	6744.53	6733.08	6726.46
42.5	6437.89	6401.78	6378.61	6371.04	6376.93	6398.29	6435.48	6408.17	6396.83	6401.22
45.0	6063.46	6032.66	6012.02	6005.30	6010.45	6021.26	6060.75	6028.13	6024.03	6026.18
47.5	5735.67	5725.05	5701.50	5688.30	5697.08	5716.79	5751.57	5725.43	5714.12	5713.32
50.0	5383.28	5413.45	5380.15	5368.58	5370.13	5380.06	5424.45	5389.19	5388.62	5396.67
52.5	4999.99	5046.24	5018.17	4985.87	4979.51	4997.34	5041.45	5012.24	5010.11	5031.60
55.0	4559.71	4572.47	4588.60	4558.36	4550.02	4551.88	4601.11	4562.80	4571.65	4590.35
57.5	4141.94	4161.51	4209.13	4177.88	4162.47	4173.00	4210.33	4187.38	4190.41	4218.38
60.0	3708.13	3729.41	3765.43	3759.06	3736.03	3724.13	3780.37	3741.93	3774.04	3820.34
62.5	3265.03	3268.20	3293.99	3331.51	3293.94	3288.90	3322.83	3305.91	3324.70	3376.72
65.0	2812.68	2790.13	2807.20	2842.72	2814.67	2803.87	2837.82	2823.39	2857.77	2915.55
67.5	2290.98	2302.50	2296.97	2330.22	2320.89	2302.66	2332.81	2324.67	2365.60	2393.45
70.0	1773.39	1817.40	1807.58	1820.02	1840.08	1809.06	1835.13	1830.64	1884.17	1884.13
72.5	1314.05	1336.63	1338.43	1353.13	1380.59	1349.70	1369.99	1375.00	1428.37	1418.07
75.0	896.33	923.99	932.03	929.88	945.19	932.18	938.63	953.91	988.85	992.00
77.5	582.59	578.22	578.49	578.77	576.82	577.99	579.81	592.64	608.27	628.94
80.0	316.08	321.45	318.21	309.99	302.97	312.18	305.37	321.34	324.37	334.83
82.5	145.36	137.76	147.28	136.22	134.22	127.97	134.29	130.64	142.08	142.54
85.0	69.11	66.15	56.53	56.32	45.18	39.75	34.03	34.70	39.78	51.66
87.5	0.00	10.63	27.18	28.54	27.04	23.10	18.81	16.23	18.03	22.70
90.0	0.00	0.00	0.00	0.00	0.00	0.00	21.55	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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8933.34	8931.58	8929.84	8928.13	8926.45	8924.80	8923.18	8921.61	8920.08	8918.60

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PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

CANDELA TABULATION - (Cont.)

5.0	8915.56	8912.64	8909.31	8906.09	8903.00	8900.02	8897.18	8894.47	8891.91	8889.50
7.5	8876.97	8872.43	8868.19	8864.26	8860.65	8856.08	8853.72	8850.61	8847.81	8845.31
10.0	8817.14	8811.74	8806.84	8802.47	8798.62	8795.30	8792.51	8789.88	8787.56	8785.72
12.5	8740.54	8734.67	8729.59	8722.70	8721.38	8718.37	8716.11	8714.61	8713.61	8713.21
15.0	8655.24	8648.51	8642.86	8638.30	8634.86	8632.31	8630.70	8630.12	8629.07	8631.21
17.5	8556.90	8550.07	8544.37	8539.86	8536.82	8535.27	8534.89	8535.78	8538.20	8541.07
20.0	8439.22	8432.01	8426.78	8423.55	8421.94	8422.22	8424.43	8427.81	8432.98	8439.04
22.5	8301.10	8292.13	8291.78	8290.59	8291.86	8294.78	8298.50	8306.26	8313.90	8323.48
25.0	8141.69	8138.65	8139.38	8141.33	8145.32	8151.27	8160.88	8172.07	8184.50	8199.01
27.5	7908.64	7913.00	7923.16	7939.24	7957.72	7979.94	8002.25	8023.74	8043.68	8035.98
30.0	7642.12	7646.08	7657.09	7676.96	7703.26	7735.17	7767.74	7815.08	7816.79	7812.32
32.5	7422.29	7427.33	7433.56	7444.94	7460.72	7484.89	7517.48	7515.98	7520.27	7524.30
35.0	7210.40	7214.89	7224.85	7240.76	7261.99	7288.60	7266.00	7249.00	7240.43	7238.35
37.5	6978.91	6986.32	7001.42	7022.97	7051.45	7036.86	7018.30	7006.15	6999.49	6997.18
40.0	6729.34	6741.19	6760.89	6788.83	6789.16	6768.97	6757.09	6751.40	6750.40	6755.30
42.5	6417.74	6448.45	6488.51	6521.17	6491.23	6475.85	6474.70	6479.63	6490.11	6503.33
45.0	6040.12	6073.12	6122.41	6130.87	6129.49	6132.88	6145.70	6169.43	6205.55	6236.59
47.5	5734.37	5765.43	5781.89	5757.56	5749.44	5753.44	5774.25	5810.00	5860.84	5904.60
50.0	5418.20	5460.73	5443.81	5416.07	5418.57	5425.24	5440.68	5475.31	5462.89	5409.78
52.5	5072.56	5105.05	5070.18	5064.57	5077.39	5096.30	5121.59	5099.81	5022.55	4954.71
55.0	4634.30	4641.05	4644.82	4651.55	4671.80	4731.19	4723.43	4640.59	4568.88	4518.79
57.5	4261.83	4230.08	4221.63	4236.62	4269.96	4261.98	4215.97	4174.22	4099.80	4058.34
60.0	3837.32	3809.07	3813.62	3850.15	3863.79	3781.73	3724.11	3684.40	3651.05	3592.37
62.5	3363.50	3359.47	3370.19	3409.09	3363.14	3305.87	3248.10	3219.18	3192.58	3166.36
65.0	2888.97	2892.20	2940.61	2899.73	2839.34	2818.05	2786.03	2750.33	2754.24	2747.58
67.5	2381.88	2415.10	2408.81	2375.12	2348.16	2321.66	2325.43	2316.63	2311.86	2332.98
70.0	1890.97	1918.79	1895.50	1868.22	1847.42	1858.45	1867.75	1886.56	1891.36	1909.86
72.5	1423.27	1428.13	1414.54	1404.75	1408.33	1424.89	1447.36	1460.97	1483.07	1499.54
75.0	999.69	997.19	980.49	1003.86	1020.62	1037.32	1054.12	1058.55	1094.84	1126.10
77.5	624.99	627.35	648.37	662.16	671.61	673.96	716.54	746.21	765.12	779.87
80.0	339.66	353.86	369.03	364.31	401.05	430.57	451.10	460.77	458.96	452.22
82.5	158.89	162.75	177.66	200.80	212.11	216.64	210.77	196.46	177.25	169.59
85.0	58.33	71.24	74.11	68.69	58.30	50.64	39.14	21.25	0.00	0.00
87.5	21.99	9.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	125.0	127.5	130.0	132.5	135.0	137.5	140.0	142.5	145.0	147.5
0.0	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8917.17	8915.77	8914.37	8912.94	8911.62	8910.35	8909.14	8907.99	8906.90	8905.88
5.0	8887.24	8884.89	8882.73	8880.57	8878.57	8876.74	8875.06	8873.56	8871.85	8870.17
7.5	8843.12	8840.45	8838.83	8836.89	8835.25	8833.92	8832.27	8830.72	8829.45	8828.48
10.0	8784.34	8781.78	8782.05	8781.37	8781.18	8780.59	8780.27	8780.39	8780.10	8780.03
12.5	8713.50	8714.13	8714.75	8716.03	8717.29	8718.48	8720.16	8721.37	8723.99	8725.70
15.0	8632.91	8635.28	8638.07	8641.72	8645.38	8649.78	8653.88	8658.54	8662.08	8665.84
17.5	8544.98	8549.75	8555.09	8561.15	8567.56	8574.42	8581.65	8588.78	8594.72	8603.39
20.0	8445.79	8453.99	8463.69	8473.55	8484.04	8493.44	8483.08	8474.19	8466.05	8459.20
22.5	8334.63	8347.36	8360.24	8352.32	8341.95	8333.29	8325.64	8318.30	8312.08	8307.21
25.0	8213.78	8200.27	8188.29	8178.71	8171.65	8165.77	8160.86	8154.45	8154.45	8151.27
27.5	8024.73	8012.79	8003.82	7992.66	7992.84	7990.38	7990.30	7990.46	7991.12	7992.15
30.0	7812.06	7808.12	7805.95	7805.19	7806.01	7808.35	7812.26	7817.45	7823.70	7829.01
32.5	7545.89	7563.61	7579.53	7594.49	7606.98	7617.46	7627.90	7639.12	7648.13	7662.16
35.0	7258.36	7279.83	7311.55	7347.16	7375.67	7412.37	7434.43	7453.59	7472.34	7439.61
37.5	6993.81	7015.32	7036.84	7072.18	7120.47	7173.00	7187.33	7146.19	7105.87	7067.90
40.0	6764.17	6776.88	6795.60	6817.36	6801.60	6777.21	6757.20	6738.74	6711.63	6685.97

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

CANDELA TABULATION - (Cont.)

42.5	6519.98	6541.41	6527.93	6460.92	6400.42	6355.26	6332.05	6313.35	6301.46	6289.58
45.0	6267.85	6198.84	6131.10	6066.77	6010.05	5958.76	5920.10	5898.45	5874.93	5879.18
47.5	5842.03	5772.53	5714.30	5662.60	5615.33	5568.94	5526.95	5495.79	5472.31	5461.61
50.0	5375.33	5328.11	5268.64	5242.34	5216.25	5175.75	5139.08	5105.86	5077.78	5053.83
52.5	4905.23	4873.86	4825.94	4795.24	4791.43	4778.89	4742.93	4729.59	4716.47	4709.98
55.0	4469.09	4426.38	4393.61	4351.80	4345.61	4378.86	4377.53	4360.13	4358.72	4365.56
57.5	4037.28	4003.45	3968.40	3951.16	3943.55	3977.19	4003.74	3999.00	3991.25	4008.84
60.0	3576.36	3589.66	3577.93	3565.83	3559.70	3579.56	3619.73	3631.80	3632.85	3651.61
62.5	3150.82	3165.07	3182.97	3182.22	3181.96	3191.03	3237.82	3263.63	3271.84	3288.38
65.0	2748.02	2748.55	2773.23	2793.12	2805.17	2815.27	2857.98	2893.75	2900.09	2888.74
67.5	2343.49	2360.43	2374.73	2401.59	2430.93	2430.20	2437.38	2455.48	2452.47	2439.86
70.0	1932.97	1974.93	1985.24	1988.88	2004.34	1997.64	1991.46	2010.38	2008.44	1995.39
72.5	1534.97	1559.01	1569.08	1567.54	1576.48	1570.23	1560.03	1568.24	1567.24	1554.38
75.0	1144.93	1157.13	1171.45	1162.19	1156.30	1148.85	1136.54	1134.19	1126.21	1115.71
77.5	785.74	783.90	777.55	761.26	746.97	733.33	719.01	704.96	688.52	680.52
80.0	439.90	423.07	395.38	380.28	368.82	353.49	333.83	310.16	284.48	258.30
82.5	156.40	138.21	111.72	82.86	49.77	12.58	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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8904.93	8904.05	8903.24	8902.52	8901.81	8901.20	8900.66	8900.20	8899.80	8899.49
5.0	8868.65	8867.29	8866.09	8864.87	8863.71	8862.67	8861.79	8861.07	8859.16	8859.08
7.5	8827.19	8826.14	8825.38	8824.49	8823.38	8822.52	8821.74	8820.98	8820.38	8819.99
10.0	8780.17	8779.94	8779.95	8779.98	8780.01	8780.38	8779.92	8779.78	8779.56	8778.07
12.5	8727.53	8729.20	8730.82	8732.26	8733.49	8734.80	8736.23	8737.13	8737.80	8738.30
15.0	8670.04	8674.38	8677.92	8681.36	8684.75	8687.33	8690.12	8692.94	8694.94	8696.42
17.5	8599.70	8592.23	8587.18	8582.38	8577.00	8574.45	8571.14	8568.76	8567.44	8565.49
20.0	8453.57	8449.05	8443.96	8440.40	8437.83	8434.17	8433.37	8431.55	8430.53	8429.61
22.5	8303.27	8300.15	8298.21	8296.29	8295.18	8294.67	8294.01	8293.69	8293.60	8293.76
25.0	8149.55	8148.66	8148.70	8149.79	8150.81	8152.48	8153.81	8154.99	8156.23	8157.39
27.5	7992.97	7994.70	7997.20	8000.50	8004.80	8008.38	8012.75	8015.55	8018.29	8020.62
30.0	7834.02	7838.56	7843.92	7849.75	7856.26	7863.30	7870.01	7875.50	7879.95	7883.88
32.5	7672.08	7680.85	7688.60	7656.18	7627.79	7604.57	7585.44	7568.93	7555.07	7545.17
35.0	7401.01	7361.88	7326.37	7293.66	7266.27	7242.01	7224.80	7209.70	7196.36	7186.84
37.5	7029.19	6993.84	6957.69	6930.03	6903.95	6881.52	6863.87	6849.62	6837.43	6828.48
40.0	6655.25	6622.60	6592.05	6564.68	6539.93	6519.17	6502.31	6489.63	6478.11	6470.09
42.5	6275.65	6248.85	6221.71	6196.80	6175.12	6156.12	6140.77	6128.60	6118.80	6111.55
45.0	5882.98	5874.27	5849.75	5827.38	5809.17	5792.39	5778.41	5767.53	5759.40	5752.60
47.5	5476.02	5487.70	5476.52	5460.35	5453.14	5446.67	5441.06	5436.81	5434.45	5432.48
50.0	5077.99	5116.00	5127.31	5122.98	5124.02	5121.91	5119.37	5117.57	5116.84	5116.53
52.5	4717.79	4752.22	4776.20	4778.98	4790.83	4796.27	4797.42	4798.35	4798.02	4799.88
55.0	4368.39	4394.95	4423.54	4432.43	4454.02	4469.82	4474.80	4478.61	4480.99	4484.27
57.5	4024.61	4041.44	4071.62	4085.52	4112.80	4142.82	4151.75	4158.63	4162.84	4167.91
60.0	3685.97	3703.14	3724.01	3738.49	3768.10	3814.31	3827.52	3838.67	3844.82	3851.49
62.5	3338.79	3365.70	3376.83	3366.52	3372.28	3406.04	3408.44	3404.71	3401.18	3397.81
65.0	2910.36	2921.94	2915.90	2907.11	2904.16	2935.10	2939.31	2935.48	2935.21	2931.57
67.5	2450.36	2456.59	2455.19	2449.13	2442.54	2465.89	2471.06	2466.77	2468.85	2464.90
70.0	1994.89	2004.59	1996.51	1992.45	1983.27	1997.79	2003.51	1998.50	2002.39	1999.62
72.5	1544.32	1549.70	1538.55	1536.77	1526.07	1532.07	1536.51	1529.72	1535.87	1533.87
75.0	1099.53	1097.55	1082.16	1082.15	1070.61	1068.42	1070.11	1063.07	1069.31	1068.27
77.5	659.92	648.24	625.65	615.30	596.93	582.01	572.24	557.96	552.08	544.38

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

CANDELA TABULATION - (Cont.)

80.0	227.06	198.95	168.06	141.33	114.18	89.29	67.43	47.44	31.01	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. 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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8899.25	8899.08	8899.00	8898.88	8898.84	8898.87	8898.99	8899.18	8899.44	8899.78
5.0	8859.00	8858.92	8858.84	8858.57	8858.30	8858.03	8857.76	8859.49	8859.75	8860.32
7.5	8819.32	8818.89	8818.69	8818.45	8818.45	8818.66	8818.72	8818.98	8819.47	8819.94
10.0	8778.69	8778.61	8778.53	8778.15	8777.77	8776.80	8777.99	8777.93	8777.81	8778.03
12.5	8738.97	8738.61	8738.38	8738.18	8738.41	8737.32	8736.60	8735.62	8734.35	8732.48
15.0	8697.11	8698.22	8698.22	8697.88	8696.61	8696.21	8694.15	8691.69	8688.23	8685.34
17.5	8564.47	8563.91	8563.27	8563.97	8564.72	8565.81	8567.53	8568.19	8570.42	8573.79
20.0	8425.09	8427.85	8428.31	8428.46	8426.22	8430.85	8431.49	8432.26	8435.39	8436.47
22.5	8292.94	8293.59	8293.35	8294.89	8295.35	8296.06	8295.66	8296.24	8296.91	8297.58
25.0	8153.01	8157.11	8158.39	8159.26	8156.10	8160.84	8159.83	8159.51	8158.63	8157.43
27.5	8021.67	8022.72	8023.43	8025.48	8025.77	8025.29	8023.85	8022.05	8019.50	8015.90
30.0	7880.74	7885.93	7888.47	7889.51	7886.00	7889.92	7887.86	7884.02	7878.90	7872.28
32.5	7537.17	7532.33	7531.70	7535.45	7541.82	7551.06	7562.76	7577.64	7595.15	7614.61
35.0	7180.03	7171.68	7174.92	7174.28	7184.01	7192.28	7203.74	7218.16	7234.29	7253.82
37.5	6822.68	6818.33	6818.15	6820.37	6826.25	6833.63	6845.39	6857.95	6874.88	6891.72
40.0	6464.89	6457.48	6461.38	6458.89	6467.54	6474.89	6484.86	6497.94	6512.21	6529.48
42.5	6107.06	6104.27	6104.61	6105.02	6109.11	6116.54	6125.29	6137.12	6152.26	6166.82
45.0	5749.18	5743.32	5747.83	5743.35	5750.69	5756.60	5766.35	5776.54	5788.71	5803.63
47.5	5432.76	5432.84	5433.64	5432.45	5433.90	5436.47	5441.52	5447.13	5452.46	5458.73
50.0	5118.24	5115.33	5119.44	5114.74	5118.96	5120.68	5125.24	5129.24	5132.27	5135.81
52.5	4803.48	4805.07	4805.24	4803.79	4803.95	4804.94	4809.19	4811.40	4811.83	4812.64
55.0	4488.98	4487.99	4491.04	4486.40	4489.45	4489.16	4492.83	4493.07	4490.74	4489.10
57.5	4174.13	4177.27	4176.84	4175.07	4173.51	4173.42	4176.39	4174.49	4169.38	4165.31
60.0	3847.41	3860.38	3862.64	3857.73	3846.37	3857.76	3860.09	3855.92	3848.06	3843.75
62.5	3398.24	3397.84	3396.06	3395.67	3397.90	3404.47	3415.76	3423.69	3427.69	3436.54
65.0	2916.03	2927.04	2929.47	2925.34	2916.37	2938.38	2949.16	2952.53	2956.63	2964.46
67.5	2465.11	2464.08	2462.88	2462.83	2466.06	2472.31	2481.26	2482.34	2486.15	2493.21
70.0	1985.66	1993.99	1996.29	1993.18	1987.21	2006.44	2014.19	2011.89	2017.09	2022.67
72.5	1532.44	1530.46	1529.70	1530.09	1534.53	1540.01	1547.32	1541.25	1546.27	1553.17
75.0	1056.07	1061.13	1063.11	1061.21	1058.70	1073.80	1080.60	1071.74	1076.91	1084.54
77.5	537.72	533.00	531.56	533.04	539.10	547.25	558.54	561.97	575.95	592.11
80.0	0.00	0.00	0.00	0.00	0.00	0.00	31.40	47.76	67.88	90.70
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

	<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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8900.19	8900.68	8901.32	8901.86	8902.56	8903.34	8904.18	8905.09	8906.07	8907.11
5.0	8861.06	8861.94	8862.91	8863.97	8865.20	8866.58	8868.13	8869.92	8871.15	8872.74
7.5	8820.60	8821.51	8822.21	8822.82	8823.71	8825.02	8825.98	8827.39	8829.09	8831.47
10.0	8777.35	8777.04	8776.95	8777.10	8777.65	8777.47	8777.64	8778.99	8778.18	8778.74
12.5	8731.00	8729.90	8728.57	8727.02	8725.46	8723.80	8722.33	8720.09	8719.32	8718.03

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PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

CANDELA TABULATION - (Cont.)

15.0	8683.77	8679.43	8676.00	8672.48	8668.48	8664.82	8660.99	8659.10	8653.68	8651.90
17.5	8577.43	8581.39	8586.13	8591.71	8598.09	8601.75	8595.60	8588.78	8582.27	8575.53
20.0	8438.77	8441.46	8444.88	8451.21	8454.55	8460.33	8467.20	8475.84	8484.69	8495.47
22.5	8298.24	8299.21	8300.91	8303.36	8307.15	8310.07	8315.32	8321.99	8329.85	8338.71
25.0	8155.86	8154.63	8153.90	8153.46	8154.09	8156.30	8160.83	8163.95	8169.10	8175.09
27.5	8013.52	8007.74	8003.75	8000.83	7999.54	7999.44	7999.88	8000.93	8002.41	8004.86
30.0	7865.55	7859.06	7851.51	7846.53	7842.87	7839.52	7836.08	7832.48	7829.12	7826.92
32.5	7637.90	7665.17	7697.92	7690.89	7683.87	7676.20	7667.47	7662.26	7650.02	7643.12
35.0	7276.07	7303.22	7337.24	7374.00	7415.63	7460.14	7493.33	7479.19	7465.41	7453.17
37.5	6914.24	6940.24	6972.19	7007.85	7046.97	7092.74	7134.52	7184.21	7241.71	7258.08
40.0	6550.33	6575.77	6605.35	6638.88	6675.44	6715.10	6757.60	6807.02	6851.80	6903.94
42.5	6186.06	6209.55	6236.48	6268.10	6301.93	6337.93	6376.98	6410.78	6444.91	6485.13
45.0	5820.86	5841.15	5866.48	5897.90	5925.93	5957.24	5983.24	5998.10	6025.13	6048.62
47.5	5466.11	5475.70	5495.96	5521.92	5547.00	5569.22	5570.66	5573.37	5596.14	5622.92
50.0	5140.55	5147.78	5154.42	5163.55	5175.35	5165.03	5148.29	5151.78	5182.86	5214.37
52.5	4813.51	4813.83	4811.61	4812.24	4815.27	4788.22	4761.11	4763.13	4778.80	4818.24
55.0	4485.35	4477.18	4463.95	4460.22	4451.36	4420.11	4401.33	4401.63	4415.13	4432.92
57.5	4155.86	4135.52	4111.59	4107.84	4089.88	4059.48	4042.16	4034.70	4044.95	4049.22
60.0	3824.16	3790.72	3761.49	3753.57	3734.89	3705.53	3677.16	3667.57	3670.30	3664.61
62.5	3434.67	3414.55	3407.60	3402.96	3385.39	3349.44	3309.87	3302.82	3291.52	3279.26
65.0	2962.41	2942.30	2943.19	2955.62	2962.09	2947.25	2932.78	2935.63	2914.88	2892.54
67.5	2486.17	2473.84	2481.34	2485.87	2495.18	2480.72	2480.89	2493.86	2498.07	2489.47
70.0	2015.05	2011.39	2019.76	2028.60	2034.28	2023.13	2034.01	2042.64	2050.08	2041.08
72.5	1547.34	1549.27	1559.03	1568.22	1574.69	1572.47	1589.14	1598.07	1607.43	1606.82
75.0	1081.61	1089.96	1100.95	1109.92	1122.97	1127.60	1146.44	1158.59	1170.33	1182.82
77.5	602.11	619.79	635.33	654.16	673.89	687.17	708.32	722.68	740.01	762.35
80.0	115.16	142.44	170.35	200.96	231.36	261.05	291.88	319.28	345.18	369.25
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.12
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>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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8908.21	8909.38	8910.61	8911.89	8913.29	8914.59	8916.02	8917.49	8919.01	8920.57
5.0	8874.51	8876.44	8878.53	8880.78	8883.59	8885.34	8887.82	8890.44	8893.20	8896.10
7.5	8832.29	8834.03	8836.06	8838.39	8840.62	8843.00	8845.69	8848.69	8851.97	8855.55
10.0	8780.47	8780.09	8781.07	8782.52	8784.14	8786.10	8788.55	8791.49	8795.90	8797.57
12.5	8717.36	8716.58	8715.65	8715.35	8715.25	8715.62	8716.69	8720.16	8720.03	8722.54
15.0	8646.50	8643.61	8640.31	8637.88	8635.90	8634.57	8634.15	8634.14	8635.04	8636.94
17.5	8569.24	8563.47	8557.99	8553.20	8548.96	8545.58	8546.62	8541.79	8541.64	8542.46
20.0	8487.00	8477.19	8468.42	8460.37	8453.05	8446.61	8441.39	8437.47	8437.63	8433.43
22.5	8348.62	8359.94	8370.07	8357.41	8346.17	8335.90	8326.74	8319.39	8312.26	8309.34
25.0	8182.40	8191.43	8201.91	8213.97	8227.38	8213.46	8199.07	8187.59	8176.11	8168.30
27.5	8011.06	8013.54	8021.17	8030.18	8041.38	8055.70	8058.84	8042.21	8027.43	8015.52
30.0	7826.70	7827.40	7830.19	7835.92	7844.66	7856.17	7871.51	7887.26	7868.85	7850.72
32.5	7637.09	7633.62	7632.28	7633.16	7637.02	7643.83	7651.24	7666.47	7688.80	7658.57
35.0	7442.40	7433.88	7428.10	7420.85	7404.26	7394.73	7388.46	7382.67	7380.88	7384.18
37.5	7238.59	7217.52	7185.96	7151.15	7120.67	7092.48	7073.37	7062.39	7057.70	7062.23
40.0	6964.20	6960.29	6901.28	6851.82	6816.28	6795.39	6780.85	6776.64	6782.62	6796.33
42.5	6513.84	6538.58	6570.27	6570.44	6549.64	6532.22	6521.19	6515.27	6515.19	6522.13
45.0	6073.03	6104.44	6159.58	6232.31	6301.82	6277.22	6255.52	6238.53	6227.07	6223.24
47.5	5653.04	5700.39	5759.71	5826.49	5899.15	5979.50	5969.61	5936.90	5908.27	5884.65
50.0	5252.90	5298.72	5349.98	5401.92	5461.07	5531.96	5605.46	5594.86	5544.71	5524.58

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PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

CANDELA TABULATION - (Cont.)

52.5	4852.74	4887.76	4914.73	4957.66	5015.27	5075.65	5118.45	5173.30	5197.30	5167.16
55.0	4445.29	4460.75	4472.97	4518.14	4568.50	4603.21	4652.16	4724.85	4802.36	4817.60
57.5	4050.53	4034.45	4041.22	4085.80	4116.54	4158.09	4211.51	4261.01	4330.52	4418.41
60.0	3649.28	3631.69	3649.09	3663.22	3686.11	3723.44	3748.18	3802.49	3869.77	3918.76
62.5	3247.93	3243.90	3251.93	3258.11	3270.12	3270.40	3303.49	3356.42	3391.69	3429.57
65.0	2858.39	2858.09	2857.33	2849.37	2842.89	2847.90	2875.31	2908.89	2920.01	2963.42
67.5	2478.73	2473.81	2464.75	2437.03	2427.75	2429.63	2443.35	2449.25	2471.61	2495.36
70.0	2050.41	2064.93	2049.75	2036.31	2018.33	2005.96	2002.66	2005.24	2018.29	2028.18
72.5	1621.41	1630.61	1621.35	1623.50	1606.18	1583.22	1573.47	1576.42	1576.47	1575.27
75.0	1202.40	1208.50	1212.47	1216.78	1203.15	1196.69	1178.64	1152.10	1161.35	1156.44
77.5	783.61	798.46	813.32	824.32	829.36	831.57	829.18	815.82	791.82	756.98
80.0	391.38	405.96	424.24	448.23	469.02	486.21	500.21	506.27	504.59	491.21
82.5	52.50	88.48	119.73	146.55	168.32	185.26	197.18	221.70	243.08	252.82
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.69	46.72	62.20
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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8922.17	8923.81	8925.48	8927.17	8928.89	8930.63	8932.39	8934.16	8935.94	8934.20
5.0	8899.11	8902.25	8905.49	8908.84	8912.28	8915.81	8919.41	8923.09	8926.82	8923.16
7.5	8859.98	8862.99	8867.05	8871.39	8876.03	8880.94	8886.11	8891.54	8897.22	8891.61
10.0	8801.04	8805.02	8809.52	8814.53	8820.04	8826.05	8832.55	8839.54	8847.00	8839.51
12.5	8725.80	8729.82	8736.48	8739.75	8745.81	8752.64	8760.24	8768.59	8777.70	8768.44
15.0	8642.22	8643.48	8648.28	8654.16	8661.09	8669.05	8678.02	8687.97	8698.89	8687.64
17.5	8544.16	8547.32	8551.93	8560.70	8565.03	8573.68	8583.78	8595.29	8608.19	8594.69
20.0	8433.60	8437.28	8439.04	8444.50	8451.92	8461.28	8472.55	8485.68	8500.62	8484.76
22.5	8311.14	8306.06	8307.55	8311.57	8317.82	8326.53	8337.85	8351.75	8368.21	8350.59
25.0	8162.43	8159.36	8164.59	8161.17	8166.49	8174.98	8186.62	8201.41	8219.34	8200.09
27.5	8006.49	8000.44	7997.22	7997.70	8005.03	8009.25	8020.75	8036.21	8055.59	8034.39
30.0	7838.41	7826.81	7821.52	7817.80	7818.50	7825.22	7837.68	7855.58	7878.58	7852.73
32.5	7626.45	7597.84	7574.81	7558.28	7550.05	7549.23	7556.64	7572.62	7597.26	7568.61
35.0	7338.43	7301.57	7274.29	7261.25	7249.08	7249.24	7256.68	7271.92	7295.45	7267.36
37.5	7071.61	7045.40	7027.51	7013.08	7007.43	7008.90	7017.73	7034.47	7059.16	7028.89
40.0	6817.55	6819.01	6793.28	6775.24	6764.93	6763.28	6770.82	6787.62	6813.67	6781.18
42.5	6537.48	6562.71	6540.64	6513.56	6495.84	6495.34	6493.42	6509.39	6537.10	6501.87
45.0	6227.34	6242.95	6266.56	6220.57	6194.80	6180.54	6181.29	6197.48	6227.72	6188.01
47.5	5878.80	5887.26	5905.30	5881.41	5834.63	5810.84	5806.23	5818.20	5847.72	5807.18
50.0	5512.83	5499.67	5509.21	5522.23	5486.62	5466.34	5462.50	5475.41	5505.24	5462.99
52.5	5144.15	5137.88	5153.34	5174.73	5148.85	5117.87	5106.94	5115.76	5144.95	5102.56
55.0	4788.57	4772.50	4766.76	4784.66	4796.17	4756.58	4739.84	4748.40	4781.10	4730.33
57.5	4413.24	4367.06	4355.92	4361.61	4377.93	4331.02	4302.60	4302.99	4330.20	4286.69
60.0	3970.77	3962.75	3938.69	3932.49	3951.75	3939.35	3909.75	3911.36	3943.24	3890.41
62.5	3494.01	3573.87	3533.92	3508.02	3511.18	3520.48	3492.89	3471.26	3503.22	3447.89
65.0	3011.31	3065.00	3117.11	3055.73	3039.05	3056.54	3016.09	3000.47	3027.34	2974.13
67.5	2519.99	2553.11	2600.40	2595.68	2559.87	2563.94	2546.25	2520.51	2545.30	2490.34
70.0	2037.70	2059.90	2084.92	2121.40	2087.59	2074.75	2073.27	2039.30	2063.90	2013.00
72.5	1583.49	1596.54	1606.84	1626.38	1645.79	1608.64	1614.21	1578.52	1594.69	1549.75
75.0	1162.74	1166.79	1167.19	1175.30	1192.01	1174.20	1159.69	1140.25	1150.44	1110.18
77.5	772.93	781.03	783.55	778.88	786.93	796.48	769.10	755.31	759.95	729.08
80.0	468.30	442.33	462.16	465.49	451.61	456.24	451.08	442.22	442.77	419.93
82.5	252.86	244.56	230.44	215.91	221.02	213.19	221.06	216.80	217.28	201.17
85.0	71.99	85.44	93.97	92.42	80.77	76.53	73.47	76.59	78.04	72.54
87.5	0.00	0.00	0.00	10.29	25.32	29.69	24.82	19.74	18.75	28.24

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PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

CANDELA TABULATION - (Cont.)

90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.26	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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8932.47	8930.76	8929.06	8927.38	8925.73	8924.10	8922.51	8920.95	8919.42	8917.94
5.0	8919.55	8916.02	8912.57	8909.21	8905.95	8902.79	8899.76	8896.84	8894.06	8891.42
7.5	8886.25	8881.14	8876.30	8871.74	8867.47	8863.50	8860.58	8856.23	8852.77	8849.59
10.0	8832.49	8825.97	8819.95	8814.43	8809.44	8804.97	8801.03	8797.63	8796.08	8791.77
12.5	8759.94	8752.19	8745.21	8739.02	8735.62	8728.87	8724.81	8721.55	8719.07	8719.33
15.0	8677.35	8668.06	8659.79	8652.59	8646.46	8641.44	8640.04	8634.63	8632.71	8631.87
17.5	8582.59	8571.93	8562.77	8558.04	8548.78	8543.71	8540.13	8538.04	8536.99	8537.09
20.0	8470.71	8458.55	8448.29	8440.00	8433.70	8431.13	8426.83	8426.19	8430.11	8429.85
22.5	8335.53	8323.04	8313.14	8305.70	8300.49	8297.80	8301.63	8299.16	8302.95	8308.48
25.0	8183.96	8170.98	8161.13	8154.41	8156.36	8150.01	8152.17	8157.27	8163.68	8173.71
27.5	8017.12	8003.86	7997.94	7989.03	7987.13	7989.10	7995.82	8002.38	8013.16	8026.20
30.0	7832.07	7817.02	7807.98	7805.30	7807.42	7811.48	7822.40	7833.25	7850.13	7869.09
32.5	7548.70	7537.54	7534.84	7539.74	7553.25	7573.84	7600.93	7632.32	7666.71	7636.40
35.0	7247.62	7235.76	7231.32	7239.43	7247.90	7270.43	7304.06	7347.94	7340.10	7337.91
37.5	7006.70	6992.62	6986.06	6986.69	6996.33	7010.45	7033.39	7018.27	7007.03	7006.20
40.0	6758.00	6744.18	6739.74	6744.15	6756.37	6776.94	6770.26	6741.91	6721.77	6710.82
42.5	6478.39	6472.79	6466.08	6476.87	6497.82	6514.08	6479.58	6456.28	6443.04	6437.77
45.0	6163.11	6154.04	6161.63	6180.45	6219.23	6182.31	6153.75	6141.52	6139.25	6145.69
47.5	5784.16	5777.73	5791.47	5829.11	5843.76	5816.53	5796.42	5786.06	5795.35	5822.15
50.0	5438.07	5430.75	5440.97	5465.10	5437.76	5415.73	5421.13	5423.54	5425.14	5456.17
52.5	5080.46	5078.11	5096.10	5108.39	5073.02	5044.71	5035.81	5049.43	5075.25	5034.35
55.0	4705.55	4709.72	4739.20	4709.33	4667.81	4660.79	4670.97	4686.07	4650.87	4556.94
57.5	4270.26	4280.73	4304.95	4269.18	4250.55	4240.45	4257.47	4261.30	4160.60	4064.10
60.0	3869.67	3883.64	3877.81	3837.69	3822.31	3831.21	3818.97	3719.82	3653.68	3581.48
62.5	3447.30	3455.02	3418.57	3387.67	3398.24	3425.34	3310.57	3218.20	3141.96	3091.07
65.0	2964.15	2979.02	2929.51	2919.16	2946.69	2872.65	2791.27	2708.79	2643.89	2601.94
67.5	2483.48	2476.48	2442.80	2439.47	2414.45	2334.32	2263.19	2204.98	2155.63	2143.99
70.0	2019.39	1984.94	1963.79	1964.97	1884.77	1820.07	1762.63	1727.58	1718.45	1706.74
72.5	1557.66	1514.52	1502.61	1457.93	1396.38	1341.17	1319.09	1311.14	1300.99	1292.35
75.0	1098.62	1077.07	1058.48	1005.73	956.90	942.74	939.23	926.35	919.77	894.92
77.5	711.16	701.42	665.21	618.64	620.48	614.02	599.32	577.41	600.55	618.35
80.0	409.97	386.42	353.19	356.82	353.47	335.10	348.10	363.96	368.56	367.04
82.5	191.96	168.00	170.36	161.08	170.93	185.03	185.06	178.64	162.44	137.57
85.0	66.19	67.68	66.47	75.66	77.01	67.33	50.07	38.85	27.38	13.98
87.5	31.99	32.40	27.96	10.98	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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8916.51	8915.12	8913.85	8912.49	8911.24	8910.04	8908.91	8907.83	8906.82	8905.87
5.0	8888.93	8886.59	8885.03	8882.29	8880.08	8878.01	8876.10	8874.33	8872.73	8871.47
7.5	8846.73	8844.18	8841.94	8839.85	8837.61	8837.06	8834.00	8833.26	8831.13	8829.78
10.0	8789.68	8786.75	8785.02	8783.63	8782.33	8781.52	8782.10	8780.61	8780.34	8781.52
12.5	8715.88	8714.89	8714.63	8714.90	8715.49	8716.76	8717.96	8719.15	8721.02	8722.51
15.0	8631.98	8632.31	8633.57	8635.63	8638.41	8642.14	8645.32	8651.10	8653.40	8659.59
17.5	8542.09	8540.99	8544.45	8548.95	8554.24	8560.09	8565.89	8572.55	8580.10	8587.23
20.0	8433.95	8439.20	8445.40	8452.83	8461.44	8470.69	8481.00	8491.62	8478.58	8468.26
22.5	8315.10	8323.81	8334.23	8346.08	8361.50	8347.94	8335.08	8324.29	8314.41	8305.99

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

CANDELA TABULATION - (Cont.)

25.0	8183.82	8197.15	8212.04	8196.07	8181.70	8169.92	8160.00	8151.34	8143.90	8138.18
27.5	8042.06	8036.64	8017.94	8003.05	7991.73	7983.33	7978.86	7971.54	7968.20	7965.36
30.0	7848.01	7828.63	7812.19	7800.22	7791.50	7786.07	7784.08	7784.24	7785.17	7787.75
32.5	7616.75	7604.39	7597.77	7586.42	7582.14	7581.13	7582.92	7588.06	7595.94	7607.98
35.0	7340.12	7342.95	7348.36	7360.87	7365.12	7368.27	7375.18	7385.06	7397.83	7413.44
37.5	7013.45	7027.84	7051.77	7080.75	7108.66	7137.46	7156.70	7175.71	7157.52	7097.67
40.0	6710.92	6720.19	6737.43	6767.68	6812.20	6866.06	6864.76	6798.89	6742.47	6695.03
42.5	6437.18	6444.54	6459.75	6476.95	6469.42	6426.77	6393.18	6357.11	6320.56	6272.77
45.0	6159.09	6176.18	6195.69	6119.08	6036.37	5972.00	5931.61	5899.45	5868.66	5835.11
47.5	5852.78	5860.19	5769.13	5684.64	5616.21	5542.21	5488.31	5451.82	5418.42	5387.82
50.0	5457.05	5381.77	5302.87	5231.99	5171.30	5112.92	5060.28	5017.93	4982.58	4945.64
52.5	4950.30	4887.94	4828.32	4762.24	4710.75	4672.76	4631.52	4593.01	4558.65	4533.26
55.0	4473.69	4401.11	4346.44	4296.08	4239.70	4211.52	4195.84	4179.19	4162.21	4146.13
57.5	3989.31	3934.08	3877.81	3828.67	3786.79	3765.85	3773.49	3772.82	3763.37	3754.84
60.0	3505.23	3448.63	3420.33	3389.51	3369.00	3354.25	3349.81	3365.29	3364.01	3362.48
62.5	3031.57	2983.36	2968.49	2965.70	2952.50	2946.06	2941.74	2951.82	2965.16	2969.42
65.0	2577.38	2551.13	2533.09	2535.40	2535.44	2536.50	2541.93	2546.18	2567.23	2576.95
67.5	2135.69	2119.31	2108.29	2108.93	2121.92	2133.36	2141.77	2145.19	2144.83	2142.26
70.0	1697.71	1695.19	1690.31	1695.45	1710.22	1719.68	1724.51	1722.14	1710.96	1706.59
72.5	1283.41	1276.74	1292.33	1306.85	1317.43	1318.13	1317.49	1306.41	1288.90	1276.66
75.0	918.29	936.42	945.77	948.55	944.46	932.78	923.73	902.82	875.87	853.18
77.5	626.13	627.30	619.76	604.32	585.29	561.49	532.69	501.08	469.19	435.00
80.0	355.40	337.13	310.84	276.61	239.10	217.77	209.86	200.54	189.85	176.90
82.5	110.64	102.56	92.72	79.03	64.15	47.47	28.14	7.15	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	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8904.98	8904.16	8903.41	8902.74	8902.21	8901.59	8901.13	8900.74	8900.42	8900.18
5.0	8869.73	8868.23	8866.89	8865.71	8864.68	8863.75	8862.90	8862.20	8861.65	8861.41
7.5	8828.74	8828.18	8826.77	8825.75	8824.99	8824.21	8823.35	8822.74	8822.31	8821.85
10.0	8780.27	8780.18	8780.48	8780.60	8781.15	8781.46	8781.43	8781.76	8781.59	8781.75
12.5	8724.62	8726.53	8728.71	8730.57	8732.22	8734.14	8736.36	8738.08	8739.34	8740.39
15.0	8662.27	8667.06	8671.17	8675.70	8680.00	8683.87	8688.33	8691.32	8695.22	8697.75
17.5	8594.68	8601.86	8598.47	8592.18	8586.00	8580.96	8576.84	8572.43	8569.67	8567.54
20.0	8459.16	8451.68	8445.26	8441.91	8435.63	8431.94	8428.87	8426.47	8424.69	8422.52
22.5	8298.59	8292.25	8289.18	8284.59	8281.95	8280.48	8279.35	8278.33	8277.44	8276.62
25.0	8134.57	8129.92	8126.81	8125.93	8125.79	8126.34	8127.91	8129.15	8130.15	8130.61
27.5	7963.59	7962.98	7963.25	7964.14	7966.92	7970.32	7976.19	7978.96	7981.87	7984.27
30.0	7790.22	7792.87	7796.39	7800.61	7805.46	7813.20	7818.91	7825.96	7832.49	7837.23
32.5	7612.54	7619.97	7627.10	7634.74	7642.93	7607.44	7577.99	7552.43	7531.68	7512.14
35.0	7428.52	7391.97	7342.82	7298.01	7259.39	7223.57	7194.58	7170.03	7148.76	7130.89
37.5	7046.06	7001.41	6951.96	6909.72	6871.50	6838.18	6810.02	6786.68	6767.54	6748.93
40.0	6643.68	6599.28	6556.63	6517.95	6482.43	6450.84	6424.25	6402.72	6383.34	6367.06
42.5	6237.70	6196.97	6158.82	6122.81	6090.85	6061.98	6037.58	6016.86	6002.12	5984.38
45.0	5817.13	5791.58	5758.15	5727.96	5696.72	5671.46	5649.35	5630.97	5617.02	5602.09
47.5	5379.43	5377.32	5355.12	5327.24	5300.59	5282.48	5269.69	5260.89	5254.06	5244.53
50.0	4932.40	4945.77	4957.03	4941.13	4929.49	4924.75	4913.47	4907.67	4902.85	4896.23
52.5	4521.64	4540.76	4566.77	4560.70	4555.57	4560.36	4556.75	4553.19	4552.15	4548.12
55.0	4137.04	4143.37	4173.32	4180.03	4176.82	4193.69	4199.51	4198.30	4201.42	4199.69
57.5	3752.46	3756.89	3783.17	3799.90	3795.96	3820.72	3842.00	3843.20	3850.30	3851.29
60.0	3364.40	3378.33	3397.49	3417.57	3417.52	3443.42	3482.32	3490.34	3498.98	3503.16

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

CANDELA TABULATION - (Cont.)

62.5	2975.77	2997.92	3018.81	3039.28	3036.96	3040.13	3073.17	3067.06	3061.45	3056.21
65.0	2580.47	2584.58	2589.53	2588.30	2574.09	2566.73	2595.41	2589.71	2581.07	2575.27
67.5	2134.56	2128.29	2131.17	2126.08	2113.46	2099.14	2113.04	2113.07	2102.08	2095.47
70.0	1693.47	1680.71	1678.63	1666.88	1653.76	1637.33	1637.93	1636.70	1625.27	1615.67
72.5	1257.95	1239.26	1226.73	1211.68	1195.94	1176.15	1167.69	1160.90	1147.50	1135.89
75.0	827.27	802.68	780.27	759.77	740.79	717.65	699.71	685.57	671.47	656.92
77.5	401.45	387.51	381.04	375.31	368.66	360.31	351.92	344.75	338.13	330.07
80.0	161.89	147.02	131.02	115.12	98.89	82.73	67.29	52.83	39.85	28.06
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

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	8939.15	8939.15	8939.15	8939.15	8939.15
2.5	8900.01	8899.91	8899.89	8899.94	8900.07
5.0	8860.94	8860.73	8860.67	8860.75	8860.99
7.5	8821.62	8821.60	8821.48	8821.58	8821.91
10.0	8781.85	8782.04	8782.33	8782.43	8782.82
12.5	8741.43	8742.18	8743.30	8743.30	8743.74
15.0	8699.93	8702.04	8703.35	8704.18	8704.66
17.5	8565.26	8563.23	8561.94	8561.32	8561.29
20.0	8420.88	8419.32	8418.30	8417.86	8417.92
22.5	8276.60	8275.52	8274.72	8274.37	8274.55
25.0	8131.62	8131.48	8130.98	8130.94	8131.17
27.5	7986.09	7987.24	7987.15	7987.12	7987.80
30.0	7840.76	7843.10	7843.42	7843.50	7844.43
32.5	7495.99	7483.84	7473.11	7466.85	7465.66
35.0	7115.32	7103.11	7093.67	7087.93	7086.89
37.5	6735.34	6722.61	6714.24	6708.98	6708.12
40.0	6352.86	6342.09	6333.98	6329.99	6329.35
42.5	5971.33	5962.06	5953.91	5950.95	5950.58
45.0	5590.44	5580.38	5573.77	5571.88	5571.81
47.5	5236.76	5232.57	5229.30	5227.56	5228.15
50.0	4889.70	4888.13	4886.60	4883.68	4884.48
52.5	4542.31	4543.44	4544.02	4539.84	4540.82
55.0	4194.80	4198.13	4201.89	4196.11	4197.15
57.5	3847.36	3852.39	3858.03	3852.41	3853.48
60.0	3499.95	3506.41	3514.90	3508.90	3509.82
62.5	3041.77	3037.77	3039.49	3031.32	3030.83
65.0	2564.57	2558.20	2559.00	2552.36	2551.83
67.5	2086.55	2079.04	2078.62	2073.32	2072.84
70.0	1609.14	1600.58	1598.34	1594.19	1593.84
72.5	1131.82	1121.90	1118.15	1115.00	1114.84
75.0	654.56	643.74	638.02	635.75	635.84
77.5	329.18	323.01	319.52	318.00	317.92
80.0	18.50	10.48	4.70	1.18	0.00
82.5	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3290.59	13.70	13.70
0-30	7052.25	29.40	29.40
0-40	11600.52	48.30	48.30
0-60	20152.68	84.00	84.00
0-80	23941.27	99.80	99.70
0-90	24002.66	100.00	100.00
10-90	23157.58	96.50	96.50
20-40	8309.93	34.60	34.60
20-50	12897.97	53.80	53.70
40-70	11282.21	47.00	47.00
60-80	3788.59	15.80	15.80
70-80	1058.55	4.40	4.40
80-90	61.39	0.30	0.30
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	24002.66	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	845.08
10-20	2445.5
20-30	3761.66
30-40	4548.26
40-50	4588.04
50-60	3964.12
60-70	2730.04
70-80	1058.55
80-90	61.39
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

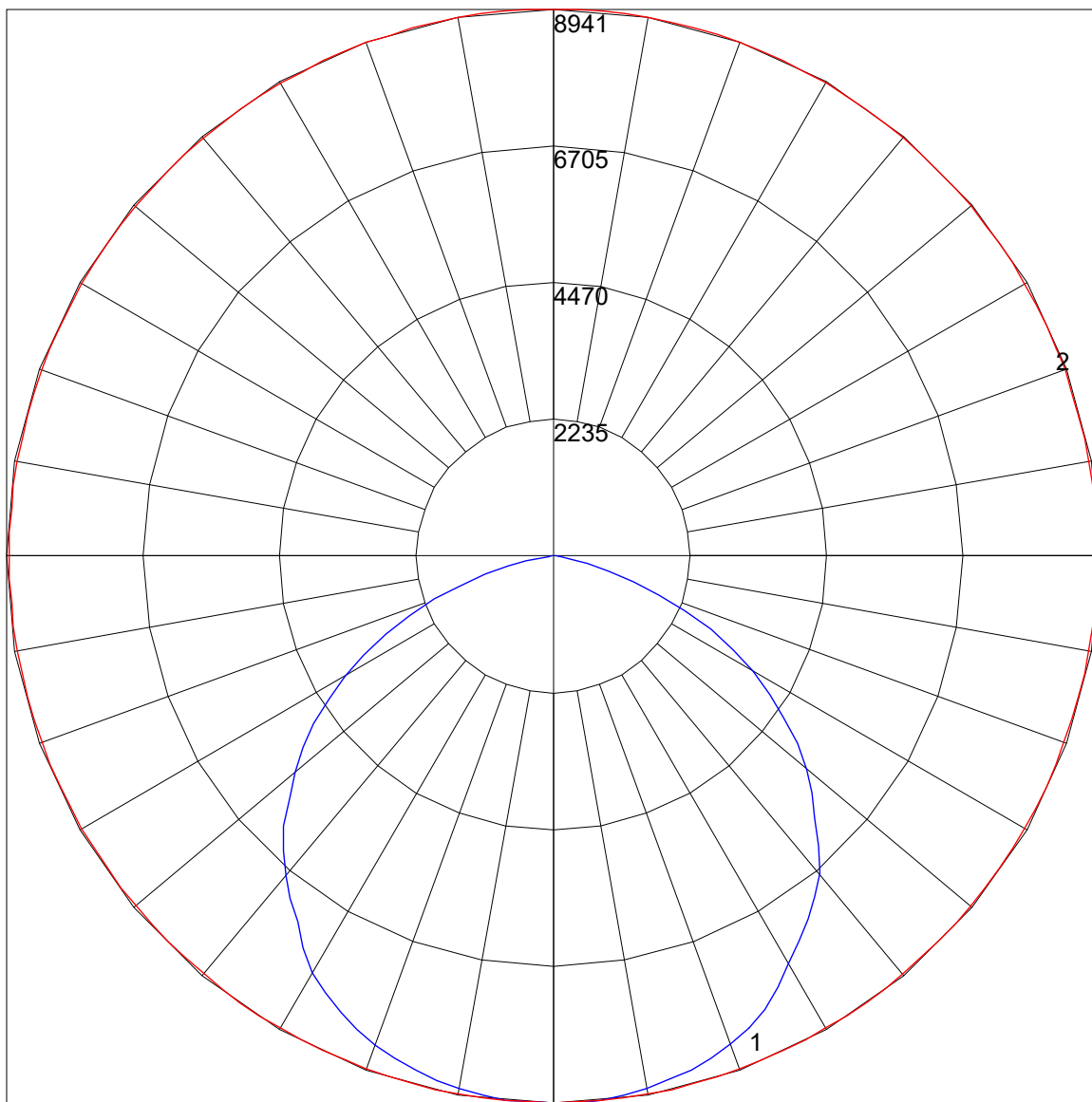
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 PHOTOMETRIC FILENAME : HZCAS35LHTHO5K.IES

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 8940.52 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)