



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-G-30W-5000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] HZX-EX-G-30W-5000K-D120
[TESTLAB] EVERFINE
[TESTDATE] 07 March 2022
[ISSUEDATE] 2022-03-07 16:26:04
[NEARFIELD]
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-2000A_V1 SYSTEM
[MANUFAC] BELUCE CANADA INC.
[LUMINAIRE] HZX-EX-G-30W-5000K-D120
[LUMCAT]] HZX-EX-G-30W-5000K-D120
[LAMP] 2987 LUMENS
[_SEARCH_SOURCETYPE] LED

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

CHARACTERISTICS

Lumens Per Lamp	2987.9 (1 lamp)
Total Lamp Lumens	2987.9
Luminaire Lumens	2971
Total Luminaire Efficiency	99 %
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	30.1739
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.84
Spacing Criterion (Diagonal)	1.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.60 m
Luminous Width (90-270)	0.45 m
Luminous Height	0.00 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2299	2745	4517
55	1264	753	2935
65	543	646	713
75	534	743	660
85	0	0	1352

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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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	707.34	711.14	714.84	718.44	721.94	725.32	728.60	731.76	734.80	739.29
5.0	757.99	764.21	770.24	776.08	781.75	786.37	789.41	792.30	795.05	799.35
7.5	777.92	785.82	793.62	801.91	808.53	815.48	823.63	828.65	834.73	840.31
10.0	797.84	806.36	814.76	825.60	837.28	849.34	862.13	874.46	886.40	897.55
12.5	837.56	850.33	863.84	883.48	903.26	924.45	944.31	962.78	977.99	990.03
15.0	877.28	895.25	918.76	951.87	982.36	1014.29	1043.26	1064.22	1079.99	1083.94
17.5	871.47	883.68	905.13	934.63	971.22	1009.10	1043.85	1073.04	1094.10	1098.68
20.0	865.65	869.28	883.48	909.10	942.94	980.22	1016.00	1045.98	1058.17	1063.40
22.5	863.95	870.16	887.99	912.50	943.49	974.36	1000.58	1019.37	1030.84	1036.53
25.0	862.25	871.54	890.55	915.17	941.09	963.68	981.19	995.41	1008.20	1018.04
27.5	861.18	863.95	875.04	892.06	912.06	931.00	948.22	967.90	989.98	1007.30
30.0	860.11	854.43	854.79	861.71	875.61	893.00	914.62	943.97	977.29	1002.15
32.5	788.15	782.98	783.85	791.63	806.05	826.35	856.41	900.19	946.12	986.33
35.0	716.18	710.79	710.54	717.35	728.95	749.73	785.09	826.57	859.00	889.90
37.5	651.78	642.39	637.48	639.09	645.82	664.22	697.30	731.07	758.71	783.32
40.0	587.38	573.66	563.30	558.52	558.82	569.02	596.31	625.58	647.37	666.77
42.5	513.23	496.53	481.80	471.66	467.04	475.06	496.13	515.47	529.58	542.87
45.0	439.08	418.91	399.24	382.68	373.65	379.87	392.15	398.59	401.22	402.11
47.5	382.38	364.75	346.80	330.46	319.49	319.72	321.47	311.56	292.24	263.04
50.0	325.68	310.68	296.30	283.16	273.35	273.52	275.81	268.36	251.89	226.88
52.5	260.79	249.49	238.55	229.34	224.33	227.09	229.03	223.46	211.71	193.75
55.0	195.89	187.99	181.56	176.58	176.58	180.24	180.08	174.94	165.27	154.67
57.5	135.46	131.05	128.52	127.43	129.80	133.53	133.92	130.88	124.62	120.91
60.0	75.03	74.41	76.13	79.07	83.22	87.39	90.43	91.96	92.31	93.38
62.5	68.50	67.79	68.41	69.62	71.01	71.75	71.64	71.15	71.49	71.89
65.0	61.97	61.66	62.44	63.76	64.86	65.42	65.08	64.65	65.10	65.57
67.5	56.02	55.51	56.13	57.44	58.49	59.15	58.94	58.39	58.75	59.36
70.0	50.06	49.36	49.81	51.00	52.11	52.97	53.02	52.22	52.56	53.15
72.5	43.69	43.21	43.83	44.96	45.94	46.83	46.60	45.87	46.31	47.06
75.0	37.31	37.06	37.86	38.92	39.81	40.64	39.99	39.52	40.01	41.14
77.5	18.66	18.60	19.23	20.13	21.12	22.23	22.58	23.36	24.78	27.01
80.0	0.00	0.07	0.28	0.65	1.19	1.89	2.66	3.59	4.75	6.23
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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	739.88	741.42	742.86	744.19	745.41	746.53	747.54	748.43	749.22	749.89
5.0	799.54	800.70	801.58	802.15	802.41	802.20	801.16	799.75	797.98	795.84
7.5	845.25	849.48	852.98	855.71	857.71	858.95	859.43	859.16	858.34	855.10
10.0	907.13	915.20	922.63	926.24	929.35	930.78	928.48	925.36	920.52	910.56
12.5	998.02	1002.59	1004.09	1002.42	999.21	991.70	982.81	966.78	950.22	933.15
15.0	1082.39	1075.46	1063.19	1049.92	1032.15	1014.55	995.82	977.55	962.26	947.21
17.5	1098.27	1091.20	1080.07	1065.15	1042.02	1024.34	1006.82	993.61	983.84	978.71
20.0	1061.64	1055.39	1047.25	1038.65	1030.08	1021.92	1013.27	1001.37	988.92	981.99
22.5	1037.97	1036.34	1031.88	1026.10	1020.24	1012.01	999.73	982.41	961.98	938.57
25.0	1023.13	1024.58	1024.04	1022.19	1018.07	1008.43	994.13	973.48	949.28	922.67
27.5	1017.46	1023.04	1024.55	1021.76	1014.20	1002.34	987.10	968.79	947.98	923.60
30.0	1016.92	1025.78	1028.84	1025.49	1015.85	1003.27	989.28	973.20	955.67	936.60

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CANDELA TABULATION - (Cont.)

32.5	1023.85	1036.06	1042.06	1040.16	1032.31	1022.13	1008.61	989.53	964.09	932.07
35.0	921.65	954.86	989.80	1028.30	1060.96	1051.79	1035.03	1006.43	959.80	902.35
37.5	808.31	832.97	863.65	901.45	942.72	985.42	1026.95	1018.14	953.28	878.67
40.0	684.88	703.65	731.80	765.56	800.41	833.49	856.78	870.04	871.87	838.04
42.5	554.22	567.90	594.26	624.77	652.81	668.35	670.87	672.05	678.97	690.22
45.0	405.94	422.49	449.08	479.49	503.85	516.20	516.70	517.15	524.26	544.78
47.5	254.37	270.18	294.33	321.18	347.64	369.60	385.02	395.21	410.42	427.21
50.0	208.84	196.43	183.54	169.26	194.09	225.14	252.10	279.19	306.82	330.67
52.5	180.92	171.05	160.29	149.01	142.32	136.76	133.64	168.93	203.63	235.87
55.0	148.85	143.64	137.24	130.80	126.96	122.16	119.15	117.84	116.59	141.92
57.5	118.66	115.95	112.71	111.22	110.08	108.46	107.49	107.31	105.48	101.31
60.0	94.23	94.14	93.94	94.51	94.29	94.42	95.03	95.81	94.86	92.16
62.5	72.68	75.39	78.22	80.63	81.99	82.76	83.69	83.72	82.78	82.27
65.0	66.59	67.62	69.06	70.47	71.44	72.46	73.77	74.33	73.70	73.49
67.5	60.48	61.72	63.18	64.44	65.32	66.11	66.84	66.82	66.55	66.97
70.0	54.40	55.71	57.18	58.41	59.48	60.80	62.02	61.72	61.18	61.42
72.5	48.39	49.70	51.16	52.54	53.94	55.90	57.48	57.35	56.29	56.63
75.0	42.50	43.91	45.31	46.89	49.04	51.42	53.49	53.42	51.93	51.97
77.5	29.49	32.38	35.59	39.64	44.59	47.55	49.44	47.98	46.68	47.14
80.0	7.96	10.00	12.35	15.24	19.19	23.85	28.24	30.97	34.30	39.70
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	4.68	8.83
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	752.64	751.33	750.27	749.22	748.09	746.86	745.56	744.17	742.71	741.19
5.0	793.34	790.69	787.30	783.74	779.86	775.65	771.15	766.38	761.37	756.15
7.5	853.86	850.41	843.83	837.51	831.04	824.41	817.64	811.47	803.15	794.92
10.0	899.91	887.86	875.07	860.63	845.01	833.90	823.02	813.45	803.55	793.38
12.5	916.48	900.61	889.31	881.32	874.72	871.04	872.99	873.85	869.17	866.86
15.0	939.85	936.04	939.36	948.15	961.72	977.63	998.37	1021.14	1044.96	1056.39
17.5	978.16	982.87	993.11	1013.12	1038.91	1064.23	1091.18	1117.00	1140.34	1164.32
20.0	982.96	990.83	1003.89	1021.08	1041.35	1061.77	1081.92	1099.24	1117.57	1136.78
22.5	916.38	923.00	936.03	953.07	973.15	994.46	1017.29	1038.13	1061.28	1086.66
25.0	896.31	873.08	852.58	875.89	899.18	925.00	951.56	982.13	1002.14	1021.14
27.5	903.24	880.53	853.40	817.47	804.93	829.17	855.74	884.31	917.56	939.13
30.0	914.87	883.51	843.01	800.59	766.69	742.94	778.04	816.12	851.88	883.16
32.5	895.16	857.54	823.27	785.53	763.19	753.90	757.19	794.76	828.00	859.34
35.0	849.29	808.82	780.39	763.58	761.39	769.75	785.86	808.51	843.76	870.71
37.5	811.80	766.42	750.12	747.39	753.24	769.01	800.14	844.48	891.95	902.44
40.0	777.55	740.56	720.05	718.86	733.89	761.45	803.26	858.04	915.07	938.53
42.5	706.68	694.82	680.01	682.33	698.61	730.84	775.10	823.08	858.94	886.99
45.0	568.87	594.11	616.17	617.13	629.26	651.16	689.55	731.42	759.47	774.02
47.5	449.37	474.04	497.95	520.84	537.25	551.12	564.42	602.39	644.72	661.57
50.0	350.54	367.08	387.71	413.65	437.01	452.08	458.03	456.49	492.15	530.60
52.5	263.43	282.12	299.61	313.14	334.29	346.34	330.13	318.84	342.10	396.04
55.0	172.62	202.19	225.46	237.97	225.11	215.72	203.60	205.55	227.39	270.37
57.5	97.99	125.27	154.52	172.65	156.09	139.92	133.25	131.27	150.60	171.08
60.0	90.04	89.21	92.05	110.68	116.53	110.29	105.24	106.71	109.12	115.18
62.5	82.33	82.66	83.22	83.98	88.32	91.29	93.16	91.78	92.14	92.56
65.0	74.49	75.99	77.62	78.63	77.96	79.21	82.97	84.57	82.24	80.29
67.5	68.24	70.15	71.63	72.81	73.48	74.84	77.33	79.01	77.70	71.89

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CANDELA TABULATION - (Cont.)

70.0	62.86	64.97	66.38	67.77	69.75	71.43	73.34	71.71	67.26	65.98
72.5	58.35	59.92	61.64	64.05	66.24	66.56	65.93	64.36	59.71	58.26
75.0	53.49	54.78	56.73	59.19	61.36	61.46	58.20	54.87	54.39	53.34
77.5	48.55	49.65	51.38	53.41	54.28	53.25	51.97	51.47	48.38	47.22
80.0	43.39	44.37	45.85	47.28	48.65	48.06	46.50	44.38	43.30	42.72
82.5	13.50	18.90	25.10	32.32	40.58	42.52	41.29	40.51	39.78	39.26
85.0	0.00	0.00	0.00	0.00	0.00	6.01	13.02	21.51	32.05	36.84
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	739.60	737.96	736.27	734.53	732.76	730.97	729.15	729.08	729.00	728.92
5.0	750.75	745.20	739.23	733.58	727.91	722.22	716.51	716.68	716.86	717.03
7.5	786.84	778.89	771.01	763.15	755.27	747.32	739.24	737.78	736.21	734.64
10.0	783.01	772.51	761.95	750.21	740.38	730.50	720.61	717.88	715.15	712.44
12.5	857.02	851.58	844.65	836.14	826.01	814.18	800.59	801.21	799.99	796.89
15.0	1061.05	1065.76	1069.95	1073.00	1080.84	1074.86	1068.87	1065.68	1062.49	1044.46
17.5	1185.33	1202.32	1218.91	1237.00	1255.84	1274.63	1292.59	1275.49	1256.84	1236.73
20.0	1156.65	1180.22	1206.96	1234.75	1262.62	1292.61	1322.67	1310.89	1299.13	1286.79
22.5	1112.97	1139.70	1169.16	1200.08	1232.89	1267.02	1301.90	1290.85	1280.42	1271.08
25.0	1040.76	1061.95	1089.24	1126.74	1165.64	1205.23	1247.98	1233.67	1222.33	1211.37
27.5	967.63	997.73	1028.60	1065.16	1105.53	1148.17	1192.48	1174.77	1159.24	1147.01
30.0	906.69	932.81	962.08	994.92	1027.66	1057.50	1090.02	1077.80	1069.00	1058.28
32.5	891.64	923.40	950.61	973.23	1002.54	1034.18	1067.85	1047.25	1029.15	1014.30
35.0	887.77	896.22	900.72	902.05	914.49	925.52	941.46	928.37	922.25	918.92
37.5	902.60	897.60	891.33	880.65	871.03	863.21	856.03	847.24	839.87	841.03
40.0	922.31	908.43	885.06	859.33	839.30	827.64	818.60	814.45	811.42	810.96
42.5	874.29	860.97	847.07	831.26	824.10	819.97	815.77	821.99	825.63	816.16
45.0	785.15	788.57	803.89	804.60	808.47	833.40	862.74	864.66	865.37	855.92
47.5	671.47	689.47	719.31	727.03	727.91	767.35	820.36	818.36	827.00	862.36
50.0	550.01	573.24	603.60	618.98	605.87	635.55	697.23	690.93	718.64	790.09
52.5	430.73	440.56	465.93	498.75	483.18	509.48	572.77	557.42	586.82	667.21
55.0	317.02	313.25	312.03	359.79	355.38	374.20	454.67	407.90	436.11	493.42
57.5	200.59	200.03	167.60	215.29	235.47	255.18	332.18	268.52	278.47	287.93
60.0	118.71	128.22	117.89	132.45	142.26	130.51	176.90	133.83	157.04	154.16
62.5	90.66	94.38	95.75	94.04	99.36	93.51	105.93	95.03	104.80	101.13
65.0	79.74	78.50	82.52	78.69	81.72	76.04	81.37	76.16	83.12	80.39
67.5	71.29	70.37	69.57	69.18	69.03	66.46	69.74	66.69	69.31	69.51
70.0	62.52	63.16	60.66	62.47	59.54	58.46	59.96	59.38	61.20	63.49
72.5	58.01	55.98	56.26	54.06	52.62	51.79	51.81	52.53	53.65	56.50
75.0	52.13	51.97	49.77	48.46	48.64	47.58	46.12	46.75	47.32	47.14
77.5	47.83	45.46	44.86	44.90	43.74	42.90	42.26	42.76	43.70	44.68
80.0	41.86	41.38	39.46	38.90	37.85	37.09	38.28	38.56	39.89	39.91
82.5	38.34	36.23	35.30	34.98	33.55	33.55	34.70	35.72	36.55	36.30
85.0	36.28	34.17	31.90	30.12	28.20	28.75	31.82	32.59	33.37	32.66
87.5	0.00	9.39	26.25	30.18	27.84	27.07	27.28	23.63	26.91	29.98
90.0	0.00	0.00	0.00	0.00	0.00	0.00	27.03	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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	728.83	728.74	728.65	728.57	728.49	728.42	728.37	728.33	728.30	728.29

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CANDELA TABULATION - (Cont.)

5.0	717.20	718.03	718.40	718.77	719.12	719.44	719.72	719.95	720.12	720.22
7.5	733.12	731.75	730.60	729.73	729.23	728.88	727.51	726.79	726.32	726.13
10.0	711.50	709.50	707.47	705.35	703.09	700.61	697.88	697.04	697.96	701.90
12.5	791.89	784.99	776.16	772.21	759.24	748.94	731.38	711.88	698.45	688.40
15.0	1030.92	1015.39	998.32	980.10	951.77	906.49	861.47	817.71	779.20	742.95
17.5	1215.26	1192.51	1167.31	1131.29	1086.57	1040.72	991.69	940.11	887.72	831.79
20.0	1273.46	1258.74	1238.08	1207.57	1167.85	1121.94	1069.87	1015.13	965.61	924.37
22.5	1263.27	1256.39	1248.62	1239.24	1228.14	1207.75	1178.12	1153.01	1116.23	1073.77
25.0	1201.31	1199.91	1203.21	1207.14	1210.94	1213.14	1203.86	1197.99	1188.05	1178.35
27.5	1140.78	1144.84	1149.12	1154.47	1159.17	1155.88	1154.21	1151.75	1149.22	1153.54
30.0	1052.63	1056.54	1067.03	1083.89	1084.28	1081.41	1080.95	1086.19	1108.12	1124.18
32.5	1013.24	1014.64	1014.86	1009.40	1002.98	1000.93	997.61	1024.92	1055.64	1084.43
35.0	938.64	956.27	967.88	964.85	957.00	942.47	973.90	1003.18	1024.38	1042.08
37.5	859.64	886.72	900.12	907.79	924.16	945.57	960.40	983.58	1012.38	1039.12
40.0	813.09	816.78	817.50	816.38	835.91	882.15	929.12	948.25	960.84	985.78
42.5	808.84	807.46	806.89	809.02	823.57	844.25	869.64	892.39	910.17	942.76
45.0	839.25	836.93	828.79	831.43	839.52	852.65	865.34	878.16	895.81	915.54
47.5	881.89	893.65	898.90	895.31	891.21	908.08	912.94	901.62	907.53	921.15
50.0	830.32	852.91	888.14	921.44	934.80	960.75	980.34	956.92	930.30	923.80
52.5	685.19	720.03	791.22	824.80	844.63	914.34	991.18	991.56	951.10	934.79
55.0	484.39	539.53	613.63	609.01	667.93	804.84	858.44	849.86	866.63	902.76
57.5	262.11	344.54	367.45	367.99	489.39	582.66	590.66	634.76	717.80	795.74
60.0	153.09	190.74	183.76	217.96	296.80	318.23	358.45	448.76	522.73	559.02
62.5	108.68	113.05	116.29	145.55	149.98	166.04	231.97	261.77	271.86	339.06
65.0	88.12	84.80	95.15	98.73	104.29	122.49	134.31	130.32	161.97	240.53
67.5	70.48	72.02	77.07	78.57	88.09	92.01	92.96	103.35	127.11	152.62
70.0	62.10	64.98	64.58	70.73	71.54	75.23	83.59	87.79	93.23	103.46
72.5	57.75	56.87	60.64	61.61	64.28	67.23	70.57	74.60	79.31	86.97
75.0	49.11	51.40	51.73	54.60	56.28	57.47	61.67	68.27	69.00	71.99
77.5	43.42	42.90	45.73	46.57	46.93	52.32	53.88	56.04	58.59	61.58
80.0	39.08	40.25	40.10	41.36	41.13	42.42	46.51	49.07	50.68	52.01
82.5	36.84	37.98	37.65	37.56	37.75	38.79	40.42	41.60	39.83	33.03
85.0	33.62	34.47	34.92	34.91	30.39	20.25	12.60	5.80	0.00	0.00
87.5	25.23	8.88	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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	728.31	728.34	728.37	725.14	723.70	722.24	720.77	719.30	717.81	716.32
5.0	720.25	720.15	720.90	721.49	722.13	722.80	723.52	724.28	724.99	725.80
7.5	726.24	726.67	725.38	724.08	722.37	720.64	719.75	719.23	718.83	718.53
10.0	706.29	709.50	714.72	718.94	723.39	724.37	724.62	724.89	723.16	720.96
12.5	680.08	676.16	678.83	682.97	689.53	697.77	706.53	712.97	717.72	719.29
15.0	711.90	686.30	668.01	654.68	654.11	652.46	656.88	662.05	670.09	679.09
17.5	782.67	748.64	718.82	692.20	670.97	653.94	641.10	633.35	626.36	630.58
20.0	881.88	838.31	798.14	760.97	728.35	695.69	685.76	681.05	683.56	688.94
22.5	1014.81	948.65	872.88	834.45	811.23	800.76	789.55	778.18	770.67	768.99
25.0	1160.65	1115.23	1049.81	970.97	913.71	881.64	869.94	870.87	866.47	866.48
27.5	1162.85	1158.23	1135.66	1093.93	1014.57	971.70	949.70	944.71	950.17	960.66
30.0	1137.09	1148.28	1151.16	1142.71	1122.88	1090.53	1053.33	1025.53	1015.72	1025.31
32.5	1107.37	1115.46	1124.05	1132.25	1135.03	1130.17	1111.04	1081.95	1064.45	1072.68
35.0	1061.06	1075.85	1086.54	1097.25	1114.81	1121.93	1113.58	1092.95	1076.88	1084.01
37.5	1056.69	1056.14	1060.84	1076.28	1092.72	1111.79	1106.65	1089.37	1074.19	1066.83
40.0	1035.03	1074.45	1071.31	1069.07	1059.54	1045.88	1045.03	1049.19	1054.28	1057.90

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CANDELA TABULATION - (Cont.)

42.5	994.29	1066.26	1092.85	1046.54	1003.41	976.41	963.71	979.83	1011.17	1034.65
45.0	945.94	971.11	993.69	997.57	974.72	922.56	900.33	909.81	944.97	991.63
47.5	923.43	919.48	910.25	912.81	913.28	873.30	836.85	829.47	847.75	892.37
50.0	928.57	924.63	898.58	876.36	864.34	831.39	783.86	754.44	748.23	788.15
52.5	933.48	937.93	914.54	882.35	845.86	801.83	744.21	730.32	750.15	812.16
55.0	922.54	938.23	947.98	929.01	866.47	795.30	761.39	757.18	779.84	836.16
57.5	825.84	882.68	927.99	889.92	824.89	768.33	749.17	761.12	792.26	837.49
60.0	631.11	720.40	761.66	762.53	736.67	711.37	710.92	738.75	793.10	854.14
62.5	462.17	554.15	579.37	569.92	583.79	615.69	657.08	715.96	803.92	884.95
65.0	319.25	360.63	378.74	365.17	411.84	509.10	594.94	683.25	780.49	832.93
67.5	181.59	204.64	222.80	205.90	242.55	373.68	474.80	542.00	601.40	656.75
70.0	117.74	120.41	117.92	129.93	147.76	232.45	329.12	400.17	452.26	504.02
72.5	91.89	94.65	94.87	105.25	112.79	157.11	244.25	304.15	341.55	376.21
75.0	75.39	80.35	82.78	90.53	96.99	129.06	178.87	209.80	225.77	237.93
77.5	65.84	69.54	70.89	74.84	79.22	88.46	104.06	109.52	109.61	108.37
80.0	55.54	55.94	57.44	55.68	52.66	49.76	47.11	45.07	44.02	40.85
82.5	28.74	22.79	17.49	12.17	7.10	1.77	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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	714.82	713.31	711.79	711.03	706.64	703.59	700.49	697.36	694.17	690.94
5.0	726.72	727.76	728.89	729.58	728.01	727.09	726.26	725.51	723.06	718.65
7.5	720.21	722.11	724.08	725.54	726.23	726.77	727.08	724.13	721.58	719.17
10.0	718.89	719.51	720.30	722.21	725.27	728.35	726.69	724.81	720.91	715.68
12.5	720.75	721.29	720.67	720.76	720.76	721.89	724.19	725.19	725.63	722.42
15.0	689.63	700.93	712.10	719.97	724.17	722.08	719.66	720.33	723.55	727.95
17.5	648.89	673.71	701.48	725.35	743.37	748.08	745.33	740.78	737.17	733.34
20.0	698.80	716.62	740.22	763.90	782.40	790.62	782.81	773.16	762.21	747.60
22.5	770.50	779.65	793.61	809.81	825.99	836.24	835.06	823.75	807.75	786.83
25.0	867.70	868.69	870.29	871.46	874.08	880.85	886.02	879.38	859.85	831.19
27.5	969.77	970.66	965.00	953.82	939.03	931.08	930.13	919.66	891.18	845.37
30.0	1045.89	1056.38	1050.43	1037.40	1013.30	992.69	981.86	962.85	927.62	865.89
32.5	1099.86	1130.61	1135.69	1110.62	1078.06	1039.99	1012.43	989.03	954.48	906.93
35.0	1100.61	1118.01	1130.69	1121.91	1102.23	1074.95	1034.47	1005.14	977.03	939.50
37.5	1074.11	1086.70	1097.59	1114.52	1109.41	1085.57	1044.81	1006.73	975.07	939.58
40.0	1060.38	1070.49	1081.98	1097.49	1100.69	1083.84	1044.35	1004.28	968.47	933.83
42.5	1049.24	1062.15	1070.56	1080.76	1087.38	1082.00	1056.71	1018.20	981.48	944.21
45.0	1017.86	1042.75	1058.54	1061.95	1066.78	1074.92	1070.46	1039.31	998.00	957.56
47.5	951.52	999.31	1041.17	1051.00	1046.27	1050.25	1046.92	1010.80	961.70	915.08
50.0	892.76	983.79	1037.22	1049.81	1034.26	1021.11	1004.00	963.13	913.78	865.26
52.5	906.41	994.68	1044.67	1053.47	1033.81	1005.56	974.68	932.05	886.07	837.11
55.0	912.96	992.48	1042.38	1059.89	1045.48	1004.99	953.11	906.08	857.68	809.67
57.5	903.15	976.54	1037.85	1063.72	1051.74	997.35	921.58	862.85	812.41	760.48
60.0	923.14	996.86	1052.97	1070.30	1050.65	981.85	885.08	813.75	762.85	709.18
62.5	961.19	1033.40	1069.45	1045.92	1000.47	924.83	821.88	746.04	697.10	654.59
65.0	860.63	886.03	895.74	888.12	863.82	819.63	742.24	671.07	626.64	597.22
67.5	685.56	704.09	723.08	726.63	718.04	692.65	635.56	577.98	544.67	527.04
70.0	534.26	551.95	563.63	567.68	567.92	553.24	513.39	477.10	458.97	453.42
72.5	392.74	400.01	403.30	403.94	410.55	411.80	395.91	379.65	374.37	378.89
75.0	240.87	238.74	236.72	234.50	245.94	266.23	277.12	281.45	289.00	303.34
77.5	109.05	108.72	109.84	110.82	121.87	138.87	147.76	149.42	150.98	155.65

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CANDELA TABULATION - (Cont.)

80.0	37.41	33.25	29.37	25.41	22.98	21.16	17.37	12.69	8.48	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	687.66	684.34	680.98	678.67	676.33	673.94	671.52	669.07	666.59	664.09
5.0	714.20	709.74	705.27	701.03	696.80	692.58	688.39	684.59	683.21	681.96
7.5	715.93	713.00	710.10	709.64	709.07	708.26	709.27	710.16	710.75	709.70
10.0	712.56	713.74	714.92	722.25	729.57	735.84	739.91	741.52	737.93	734.33
12.5	717.68	717.02	717.02	728.31	737.81	752.85	762.81	765.73	766.50	765.53
15.0	723.69	720.91	719.12	735.23	754.71	777.38	791.95	797.51	789.11	789.22
17.5	727.86	725.19	729.47	749.92	773.87	795.02	807.44	805.20	813.52	834.11
20.0	733.00	727.77	739.81	765.22	792.73	807.01	814.85	832.55	869.56	917.07
22.5	761.33	737.82	736.07	751.97	778.59	802.95	822.48	859.14	905.85	920.88
25.0	792.78	752.24	732.33	735.58	763.15	805.63	836.11	868.23	912.33	926.09
27.5	791.11	749.46	731.85	747.15	792.16	838.77	870.41	905.11	936.64	929.56
30.0	791.17	745.24	731.36	760.17	824.74	874.95	911.05	937.31	938.74	919.61
32.5	842.85	792.47	776.37	801.24	856.55	906.79	941.35	961.00	952.67	938.02
35.0	893.73	841.12	821.37	840.32	886.58	936.82	968.78	988.01	977.91	960.95
37.5	901.57	870.11	875.72	907.18	949.59	985.63	1007.12	1012.33	995.02	974.76
40.0	903.97	895.73	930.06	975.97	1012.24	1033.21	1042.48	1030.57	1004.10	978.89
42.5	921.56	919.36	958.16	1015.24	1049.92	1065.85	1070.14	1052.97	1024.04	981.89
45.0	937.03	943.59	986.25	1055.63	1085.49	1096.00	1097.33	1080.81	1041.97	978.99
47.5	888.91	893.39	944.12	1008.53	1042.29	1062.43	1070.91	1062.59	1025.44	953.99
50.0	838.31	838.94	901.98	959.65	996.50	1023.36	1034.76	1027.57	986.92	929.24
52.5	797.38	782.50	823.27	885.11	935.61	975.86	998.70	1002.68	972.78	926.24
55.0	758.34	725.43	744.56	807.71	872.72	929.26	965.34	986.49	978.26	944.59
57.5	703.24	668.83	695.83	768.92	841.45	901.93	945.72	979.98	983.55	957.14
60.0	645.22	610.79	647.11	727.76	808.21	876.86	931.07	977.96	989.20	963.61
62.5	605.66	571.50	591.26	653.57	725.53	787.27	839.56	890.86	913.08	904.75
65.0	561.76	531.61	535.40	577.30	635.01	690.40	730.62	776.74	795.24	793.42
67.5	505.20	487.08	494.08	527.77	571.57	605.74	636.63	666.95	674.41	681.26
70.0	443.75	441.32	452.75	476.75	502.51	520.05	542.02	555.50	552.08	566.66
72.5	386.95	395.65	405.76	413.90	426.76	429.80	438.70	443.95	434.20	453.83
75.0	326.40	349.22	358.77	349.73	346.37	337.82	333.20	332.90	314.75	345.16
77.5	165.93	175.32	179.39	175.63	176.36	173.35	174.02	176.39	170.26	195.93
80.0	0.00	0.00	0.00	0.00	0.00	0.00	9.78	14.95	20.07	30.02
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	661.56	659.02	657.66	656.37	655.33	654.25	653.13	651.97	650.78	649.55
5.0	680.59	679.11	678.26	677.91	677.47	676.97	676.38	675.57	675.94	676.20
7.5	708.25	706.78	706.00	705.55	704.74	703.51	710.65	715.84	719.75	720.74
10.0	736.66	738.59	749.71	768.07	784.44	799.54	813.75	823.44	820.18	818.63
12.5	774.35	794.88	821.02	849.99	864.15	858.24	842.68	813.99	791.61	778.18

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CANDELA TABULATION - (Cont.)

15.0	793.90	842.13	876.47	898.23	878.84	847.25	808.12	776.92	751.24	732.60
17.5	878.34	908.97	915.16	888.53	837.64	792.57	758.34	729.72	703.62	683.26
20.0	916.54	888.24	848.08	810.81	778.73	749.21	719.09	684.32	666.47	654.05
22.5	892.57	848.73	813.84	785.62	758.84	751.82	756.53	764.78	774.78	782.73
25.0	895.64	856.64	829.06	810.81	811.47	835.16	867.71	913.54	951.74	974.90
27.5	896.94	875.00	865.87	866.39	894.40	940.80	996.00	1051.07	1096.48	1131.34
30.0	911.55	922.68	949.58	991.06	1042.39	1091.99	1136.08	1178.86	1214.17	1247.79
32.5	953.05	1001.64	1086.86	1165.15	1227.44	1270.51	1296.23	1306.24	1318.37	1324.09
35.0	972.21	1014.74	1092.45	1196.06	1289.54	1364.81	1409.72	1390.14	1342.66	1288.96
37.5	972.98	1001.86	1065.57	1151.87	1230.57	1294.15	1337.20	1319.56	1262.65	1211.63
40.0	972.44	996.36	1047.30	1108.81	1170.65	1226.57	1257.15	1232.69	1192.11	1159.99
42.5	960.34	970.89	1007.07	1059.90	1118.49	1167.86	1184.80	1173.54	1154.55	1126.01
45.0	928.60	912.30	934.39	986.88	1054.21	1109.05	1132.58	1127.74	1113.43	1089.84
47.5	886.58	840.08	846.45	906.26	985.97	1065.98	1103.00	1096.45	1075.98	1048.99
50.0	877.02	852.30	867.51	909.20	979.79	1056.60	1088.52	1082.13	1058.92	1023.18
52.5	884.21	879.24	908.76	963.44	1027.60	1064.10	1071.13	1066.96	1052.31	1024.34
55.0	906.16	899.64	928.87	987.48	1037.28	1048.88	1047.76	1038.41	1023.26	1009.06
57.5	923.02	916.15	938.64	986.84	1023.12	1030.39	1027.76	1016.20	993.73	971.21
60.0	937.30	939.50	960.99	988.15	1008.34	1012.65	1013.88	1001.71	972.78	938.32
62.5	905.22	930.91	968.70	984.16	990.81	996.75	996.41	975.12	934.78	894.35
65.0	795.07	813.01	838.42	863.57	891.72	929.93	955.80	928.25	862.15	808.66
67.5	681.26	689.70	703.27	717.03	742.73	775.77	798.04	786.33	745.97	697.93
70.0	563.77	561.94	558.77	569.63	590.08	618.21	636.71	634.77	608.44	569.14
72.5	449.75	433.33	415.44	418.90	435.58	455.20	467.01	464.20	450.88	430.11
75.0	336.93	309.18	278.92	270.82	281.80	295.08	304.83	308.68	301.00	284.16
77.5	193.79	175.66	149.65	139.24	140.20	142.71	151.72	168.94	174.35	172.31
80.0	36.84	39.80	39.51	42.59	48.16	54.04	61.90	71.59	76.40	79.77
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84
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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	648.29	647.01	645.70	644.36	643.29	642.92	642.22	641.49	640.71	639.89
5.0	676.68	677.37	678.28	679.39	679.26	685.44	688.61	691.65	694.56	697.30
7.5	731.57	738.56	747.48	756.62	762.61	766.88	770.23	772.69	774.30	775.08
10.0	818.33	807.86	800.80	795.83	790.69	785.61	781.38	775.11	770.38	764.41
12.5	766.15	756.07	747.84	740.79	735.09	730.69	727.49	726.94	728.74	731.15
15.0	711.62	694.59	696.01	699.97	710.18	723.27	734.85	749.54	763.83	776.96
17.5	679.74	691.61	715.01	744.42	781.12	815.43	836.14	873.59	901.34	926.56
20.0	679.25	715.19	759.64	814.89	872.79	929.47	981.73	1018.12	1041.99	1070.93
22.5	795.04	807.72	823.20	895.26	956.88	1015.89	1075.99	1134.75	1182.68	1202.76
25.0	992.32	1006.29	1018.43	1034.10	1053.77	1127.32	1176.86	1211.34	1234.47	1255.45
27.5	1162.33	1190.59	1198.40	1202.02	1209.19	1214.46	1242.80	1281.29	1310.50	1316.00
30.0	1273.12	1269.75	1260.75	1270.12	1292.29	1325.91	1356.52	1385.27	1351.28	1290.17
32.5	1303.73	1279.52	1284.79	1301.09	1302.15	1289.65	1278.71	1269.33	1257.39	1216.76
35.0	1254.20	1251.41	1259.20	1242.69	1200.86	1176.40	1176.68	1189.48	1211.42	1242.20
37.5	1194.65	1187.35	1174.36	1155.34	1135.01	1127.65	1135.28	1153.86	1177.27	1197.48
40.0	1122.67	1095.74	1076.31	1059.24	1057.50	1065.76	1080.87	1087.64	1088.84	1098.04
42.5	1090.32	1043.39	980.81	967.36	1000.86	1033.88	1049.88	1060.74	1088.90	1118.71
45.0	1064.10	1008.73	965.24	975.68	1009.17	1026.97	1034.89	1056.32	1074.98	1075.24
47.5	1014.29	981.53	976.55	1003.60	1014.45	993.55	989.43	1005.00	1014.90	1008.07
50.0	995.97	994.56	1007.28	1016.07	1005.56	972.78	945.34	947.86	962.58	973.70

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CANDELA TABULATION - (Cont.)

52.5	1007.73	1010.34	1016.08	1004.86	986.52	966.83	943.69	935.01	947.61	961.77
55.0	1005.00	1013.61	1012.51	995.82	971.03	938.95	919.66	918.51	969.05	998.27
57.5	970.68	986.32	1008.22	1000.91	947.79	874.50	851.39	872.49	917.64	908.23
60.0	922.21	912.30	919.46	924.27	905.13	815.14	768.72	758.63	773.50	758.02
62.5	861.52	833.32	797.83	744.62	713.52	692.91	652.91	599.83	566.85	573.94
65.0	765.77	732.67	680.72	604.64	535.55	494.05	486.07	467.07	402.57	347.12
67.5	633.41	570.87	517.03	465.15	406.91	353.85	324.29	306.42	273.72	212.50
70.0	512.12	433.66	347.24	275.42	242.49	243.25	234.39	197.47	154.71	137.69
72.5	396.65	348.03	276.77	193.02	139.64	136.20	152.31	147.79	118.69	107.00
75.0	265.33	233.76	197.88	151.09	123.20	114.62	110.09	97.58	94.07	93.77
77.5	164.09	150.04	128.62	107.20	102.29	101.07	99.82	88.97	80.79	78.54
80.0	83.91	88.73	94.13	90.79	87.96	89.80	83.30	77.21	74.16	73.58
82.5	11.29	19.49	28.63	37.84	47.72	63.07	72.61	71.81	67.74	67.60
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.31	22.20	36.74
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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	639.02	638.12	637.18	636.20	635.18	634.12	633.03	631.91	630.75	632.53
5.0	699.87	702.23	704.37	706.26	707.87	709.18	710.17	710.81	711.07	713.33
7.5	773.90	771.18	768.41	765.68	762.97	760.25	757.48	754.64	751.69	756.83
10.0	760.09	756.38	753.22	750.56	748.36	746.55	745.08	743.88	742.89	751.04
12.5	735.87	742.50	750.21	764.38	776.58	788.62	800.24	811.18	821.18	822.87
15.0	785.83	813.45	842.66	871.90	900.77	928.83	955.63	980.72	1003.64	989.56
17.5	950.19	972.68	1002.31	1033.86	1068.60	1096.77	1122.72	1146.70	1168.99	1142.25
20.0	1092.72	1109.01	1127.30	1150.60	1179.02	1204.71	1227.99	1249.18	1268.62	1230.23
22.5	1217.62	1228.72	1239.02	1249.88	1257.29	1260.48	1261.92	1262.70	1263.95	1233.37
25.0	1267.88	1271.29	1266.71	1256.73	1242.28	1221.35	1198.33	1174.68	1151.93	1140.00
27.5	1300.19	1275.85	1248.10	1225.06	1207.30	1174.72	1143.88	1114.96	1087.57	1088.60
30.0	1231.12	1184.13	1163.18	1144.73	1126.28	1096.36	1054.29	1013.04	974.20	1003.77
32.5	1182.69	1148.13	1112.48	1077.88	1039.57	993.68	921.72	851.82	785.26	839.16
35.0	1198.12	1137.01	1061.68	1003.53	947.80	896.81	835.48	776.89	720.82	766.48
37.5	1188.73	1096.66	1019.14	971.70	926.87	878.64	835.13	793.11	749.64	792.81
40.0	1101.14	1097.89	1077.23	1047.85	990.66	930.83	873.40	815.48	756.12	806.69
42.5	1144.35	1181.52	1130.33	1050.09	979.88	927.91	879.51	831.43	784.26	836.19
45.0	1080.31	1095.98	1089.64	1019.70	965.42	925.03	887.94	862.33	837.45	883.56
47.5	1008.92	1020.33	1031.03	1000.27	958.20	932.76	916.31	919.12	925.59	928.80
50.0	972.99	968.88	971.08	959.31	953.18	960.90	966.52	987.61	1012.68	970.63
52.5	965.54	967.07	953.83	945.02	948.81	941.46	963.58	968.56	955.57	917.95
55.0	978.62	946.97	885.99	877.04	866.52	819.16	840.26	848.39	814.83	782.37
57.5	873.84	851.58	770.46	725.74	750.45	700.90	692.39	697.64	639.31	612.64
60.0	698.33	662.88	641.14	571.22	601.63	578.85	520.73	528.85	439.03	423.44
62.5	528.38	435.33	445.05	416.32	408.17	436.13	312.35	328.52	208.62	245.96
65.0	345.66	284.11	240.28	271.41	196.43	227.91	154.26	154.21	129.47	132.74
67.5	182.23	183.70	143.40	143.87	135.26	132.51	125.19	121.04	110.09	108.88
70.0	129.68	117.94	119.38	114.30	116.63	106.69	108.80	101.51	92.22	93.07
72.5	106.28	101.51	95.88	99.54	90.80	88.17	88.62	81.60	78.52	80.22
75.0	88.60	85.45	83.29	81.08	79.61	78.53	77.48	75.91	73.13	72.54
77.5	81.06	78.53	74.32	76.49	72.31	70.29	69.79	69.05	68.48	68.69
80.0	74.43	68.90	69.13	66.88	67.11	66.77	66.42	67.03	65.54	65.93
82.5	67.27	65.43	63.70	63.02	62.90	63.08	61.46	60.59	59.24	59.61
85.0	54.89	61.80	58.63	56.38	55.73	54.36	54.31	53.80	52.56	53.69
87.5	0.00	0.00	0.00	14.53	39.15	44.01	40.66	41.60	42.95	44.38

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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	28.78	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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	634.28	635.99	637.67	639.31	640.90	642.46	643.98	645.45	646.88	648.27
5.0	715.19	716.66	717.73	718.41	718.70	718.61	718.14	717.29	716.08	714.50
7.5	761.81	766.63	771.27	775.71	779.95	783.98	787.30	790.82	793.15	795.06
10.0	759.31	767.69	776.17	784.71	793.30	801.92	810.56	819.19	828.19	834.73
12.5	823.60	823.62	823.15	822.45	819.72	822.31	824.47	827.54	833.14	839.13
15.0	973.56	956.35	938.62	921.05	904.31	889.01	876.55	876.51	875.86	876.56
17.5	1114.43	1085.88	1056.95	1025.99	997.37	970.38	949.41	931.68	917.21	906.50
20.0	1190.72	1150.37	1109.45	1068.26	1031.15	998.46	969.89	941.56	913.57	892.22
22.5	1203.26	1172.50	1140.02	1104.39	1067.98	1031.09	992.19	955.49	917.22	874.41
25.0	1129.26	1118.52	1106.59	1089.04	1065.39	1037.75	1005.14	966.38	918.51	866.93
27.5	1089.63	1089.51	1087.21	1085.88	1079.75	1067.72	1048.47	1001.24	948.62	889.73
30.0	1034.92	1065.24	1083.33	1092.63	1100.74	1104.83	1100.84	1077.60	1041.19	984.12
32.5	896.84	957.45	990.13	1016.36	1041.00	1072.46	1103.56	1121.90	1122.74	1098.20
35.0	813.76	863.35	907.99	949.76	991.52	1039.95	1087.92	1131.23	1121.37	1110.92
37.5	834.76	877.65	924.24	969.55	1010.71	1054.37	1100.80	1101.01	1090.69	1080.27
40.0	856.75	907.93	958.91	1007.48	1050.25	1089.86	1095.08	1079.05	1067.11	1058.88
42.5	886.05	944.54	1004.80	1051.06	1091.87	1118.29	1081.63	1056.22	1043.89	1036.62
45.0	929.30	985.05	1048.28	1108.85	1157.29	1108.22	1049.99	1009.84	993.28	992.68
47.5	935.92	953.33	998.61	1092.54	1123.95	1040.61	980.89	942.45	911.62	885.45
50.0	928.78	895.28	905.40	958.29	907.30	831.72	826.42	818.88	768.38	733.21
52.5	860.25	783.69	777.83	765.31	678.11	636.76	640.67	611.30	562.28	553.81
55.0	705.86	620.80	621.25	562.18	478.05	461.88	437.22	385.38	386.07	415.57
57.5	517.84	450.90	448.21	376.17	334.93	307.83	237.60	212.28	268.60	297.65
60.0	319.19	271.02	257.99	222.56	230.82	187.56	132.86	149.22	176.65	181.15
62.5	176.58	152.24	137.91	139.90	149.31	116.23	117.23	117.91	117.60	119.74
65.0	117.09	117.69	109.53	112.30	106.20	105.54	105.63	100.97	99.22	99.69
67.5	100.38	98.07	96.15	94.72	93.02	94.84	92.46	92.99	89.00	89.36
70.0	89.26	85.67	86.38	82.80	86.21	84.87	84.59	86.05	85.57	83.21
72.5	79.89	77.72	77.17	79.30	78.11	79.88	79.81	79.37	80.73	79.44
75.0	73.64	73.68	71.88	71.52	73.94	74.56	75.57	76.55	76.30	75.47
77.5	68.59	68.46	67.18	67.40	66.89	69.99	71.49	71.98	70.28	67.39
80.0	65.06	63.92	62.78	60.86	62.67	63.53	65.55	64.94	62.39	59.41
82.5	58.43	58.28	56.42	55.37	56.66	59.04	59.43	57.86	54.30	50.94
85.0	52.94	49.44	49.33	48.75	50.20	54.04	47.61	30.89	17.36	7.24
87.5	42.39	42.04	35.66	12.39	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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	649.60	650.89	651.89	653.55	655.65	657.75	659.84	661.92	663.99	666.04
5.0	712.57	710.28	703.94	705.23	704.17	703.04	701.84	700.58	699.26	697.06
7.5	796.53	797.55	798.11	797.24	793.19	787.18	786.61	781.70	780.43	776.39
10.0	839.79	845.57	850.93	856.01	859.99	864.00	867.68	869.97	871.43	871.97
12.5	848.21	857.50	866.42	875.27	884.65	894.12	902.84	911.26	920.24	925.91
15.0	878.85	882.86	888.12	894.73	901.92	909.62	919.76	930.66	942.79	955.94
17.5	899.99	898.88	901.51	908.30	917.68	928.80	940.37	952.73	965.52	979.30
20.0	875.79	868.01	868.73	875.90	889.68	907.65	930.30	951.00	967.37	981.20
22.5	836.83	806.68	788.59	783.80	794.60	829.57	866.66	901.76	931.09	955.67

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CANDELA TABULATION - (Cont.)

25.0	815.46	764.54	721.26	735.00	754.40	781.61	813.49	846.85	880.76	918.94
27.5	828.06	797.09	791.08	788.38	789.65	796.07	811.26	839.96	875.62	915.07
30.0	952.32	925.22	902.66	884.21	865.75	850.27	848.94	864.39	894.76	931.28
32.5	1075.37	1053.29	1029.05	980.99	937.13	905.06	888.40	889.49	908.12	940.29
35.0	1101.29	1090.89	1070.61	1036.81	994.99	958.82	940.90	932.23	933.93	948.72
37.5	1073.71	1071.34	1065.85	1053.07	1034.09	1015.00	998.70	986.89	952.05	906.20
40.0	1050.44	1043.36	1039.26	1032.99	1026.31	1022.14	986.21	924.14	863.05	810.73
42.5	1032.09	1022.87	1012.41	1001.77	972.53	913.06	859.83	807.88	758.19	706.15
45.0	984.18	983.99	987.46	917.54	838.59	774.06	718.88	668.18	623.61	585.58
47.5	880.58	884.14	843.34	781.63	706.40	628.40	565.09	511.53	470.39	447.03
50.0	726.10	713.88	687.38	630.38	559.47	484.40	413.87	357.76	320.42	301.31
52.5	567.43	562.84	517.44	462.69	398.16	333.52	266.31	206.29	164.70	185.05
55.0	426.29	397.79	355.01	304.36	246.87	180.93	128.04	128.62	132.46	143.07
57.5	282.68	254.75	224.72	175.66	121.40	118.15	115.82	114.21	113.49	117.70
60.0	176.23	161.26	125.27	118.18	114.18	109.86	106.29	103.32	101.63	102.83
62.5	116.68	108.02	108.18	107.15	105.74	102.16	98.16	94.21	90.92	88.90
65.0	98.12	96.26	96.11	97.31	96.74	93.94	90.42	86.38	81.58	76.79
67.5	89.48	88.76	87.90	87.96	86.69	84.88	82.21	79.00	74.32	70.06
70.0	83.40	82.32	79.95	77.91	76.57	75.75	74.28	71.62	67.49	63.78
72.5	78.24	76.09	72.71	70.03	68.68	67.63	66.13	64.21	61.18	57.96
75.0	71.95	68.25	64.87	62.30	60.55	59.02	57.47	56.39	54.30	51.62
77.5	63.62	59.95	56.86	54.39	52.46	50.76	49.05	48.28	46.63	44.61
80.0	55.71	51.30	48.49	46.35	44.66	40.34	34.48	30.34	25.99	21.86
82.5	44.94	33.69	25.85	19.36	13.84	8.98	4.71	1.09	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. 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	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68	656.68
2.5	668.07	670.07	672.04	673.97	676.45	678.40	681.81	685.19	688.54	691.83
5.0	698.89	700.58	702.20	703.72	705.15	707.76	711.92	716.01	720.02	725.07
7.5	771.80	765.86	764.37	761.47	757.68	755.18	754.47	753.10	752.15	754.74
10.0	870.56	867.42	864.10	856.18	847.62	838.06	826.95	814.70	807.41	799.16
12.5	930.94	932.90	933.00	929.37	922.32	910.49	893.96	876.42	858.29	845.19
15.0	965.75	975.20	979.08	980.84	977.29	968.44	952.28	932.45	909.38	888.83
17.5	993.54	1007.12	1013.30	1015.72	1013.00	1006.58	996.18	978.29	954.15	927.97
20.0	991.08	999.98	1007.36	1013.76	1016.53	1016.93	1013.54	1005.32	988.62	966.01
22.5	975.73	991.06	1002.12	1009.24	1014.99	1018.38	1017.78	1010.99	995.98	971.22
25.0	957.53	984.68	1003.08	1013.79	1019.44	1022.05	1021.19	1014.21	998.41	970.99
27.5	954.09	987.19	1010.64	1023.95	1029.27	1030.45	1028.93	1024.06	1012.12	990.98
30.0	965.98	994.76	1016.91	1031.82	1040.14	1042.64	1040.17	1034.43	1025.46	1010.47
32.5	974.19	1004.45	1026.03	1040.77	1050.59	1035.22	1016.46	996.23	976.73	953.75
35.0	978.72	990.23	983.32	970.41	957.79	944.42	928.83	910.98	893.20	873.46
37.5	882.89	882.61	881.41	873.20	862.41	850.75	837.91	823.44	809.37	795.01
40.0	779.93	770.15	769.07	764.12	757.01	749.11	741.07	732.53	723.52	714.48
42.5	669.79	649.03	642.36	643.55	644.51	644.76	642.27	639.48	636.37	630.99
45.0	555.65	533.42	526.13	530.84	539.42	545.64	546.60	546.59	546.94	545.84
47.5	434.13	422.84	419.94	424.48	434.10	447.43	455.64	460.44	464.78	466.08
50.0	300.15	303.97	324.12	340.99	355.41	370.92	380.40	384.72	387.49	389.26
52.5	214.51	240.36	259.36	273.66	285.22	296.41	308.33	313.27	315.04	315.89
55.0	160.43	182.49	205.26	219.36	229.99	238.03	245.13	246.98	246.12	244.24
57.5	130.69	148.68	165.35	174.34	179.96	181.94	183.01	180.38	176.34	171.96
60.0	110.72	120.29	127.42	128.56	126.99	123.65	119.28	113.24	106.35	99.67

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CANDELA TABULATION - (Cont.)

62.5	89.49	91.33	90.60	85.17	79.11	79.09	78.87	78.47	77.94	77.15
65.0	73.82	73.97	74.21	73.27	72.38	72.11	71.81	71.30	70.78	69.97
67.5	67.87	67.80	67.91	66.72	65.58	65.18	64.62	64.06	63.55	62.91
70.0	61.88	61.34	61.39	60.45	58.77	58.13	57.36	56.80	56.28	55.82
72.5	55.87	54.77	54.62	54.08	52.06	51.08	50.18	49.55	49.05	48.66
75.0	49.75	48.67	48.38	47.46	45.11	44.19	43.05	42.31	41.84	41.49
77.5	43.44	40.83	38.02	34.93	31.10	28.81	26.59	24.93	23.66	22.63
80.0	18.52	15.62	13.13	10.80	8.41	6.64	5.10	3.84	2.79	1.93
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	656.68	656.68	656.68	656.68	656.68
2.5	695.08	698.26	701.37	704.39	707.34
5.0	729.92	737.14	744.25	751.20	757.99
7.5	756.93	759.14	765.61	771.85	777.92
10.0	794.94	792.86	792.12	795.11	797.84
12.5	835.53	831.59	829.39	833.34	837.56
15.0	876.30	868.62	868.21	871.34	877.28
17.5	901.69	884.73	874.31	870.04	871.47
20.0	935.93	906.04	882.80	869.98	865.65
22.5	938.01	903.57	878.61	866.71	863.95
25.0	933.55	897.10	873.43	862.91	862.25
27.5	959.04	921.54	889.42	869.29	861.18
30.0	986.16	948.77	908.32	876.59	860.11
32.5	922.06	879.07	835.53	804.06	788.14
35.0	842.94	799.78	756.86	729.83	716.18
37.5	775.09	742.45	701.41	670.89	651.78
40.0	704.33	684.53	649.07	612.60	587.38
42.5	625.29	607.22	573.17	538.10	513.23
45.0	545.09	528.10	495.47	463.06	439.08
47.5	466.72	458.02	433.57	404.89	382.38
50.0	389.29	386.96	371.27	346.61	325.68
52.5	314.70	311.58	297.16	276.94	260.78
55.0	241.24	235.78	221.22	206.46	195.89
57.5	166.95	161.22	151.54	142.03	135.46
60.0	92.81	86.57	80.88	77.05	75.03
62.5	75.64	73.79	71.47	69.87	68.50
65.0	68.53	66.75	64.46	63.23	61.97
67.5	61.79	60.37	58.29	56.91	56.02
70.0	55.04	53.98	52.15	50.59	50.06
72.5	48.01	47.03	45.18	44.13	43.69
75.0	40.93	40.04	38.16	37.67	37.31
77.5	21.67	20.70	19.37	18.90	18.66
80.0	1.22	0.67	0.28	0.07	0.00
82.5	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	323.22	10.80	10.90
0-30	782.29	26.20	26.30
0-40	1395.3	46.70	47.00
0-60	2532.41	84.80	85.20
0-80	2956.11	98.90	99.50
0-90	2971.45	99.40	100.00
10-90	2900.11	97.10	97.60
20-40	1072.08	35.90	36.10
20-50	1703.04	57.00	57.30
40-70	1437.29	48.10	48.40
60-80	423.70	14.20	14.30
70-80	123.52	4.10	4.20
80-90	15.35	0.50	0.50
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	2971.45	99.40	100.00

Total Luminaire Efficiency = 99.40%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.35
10-20	251.87
20-30	459.07
30-40	613.01
40-50	630.96
50-60	506.15
60-70	300.18
70-80	123.52
80-90	15.35
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

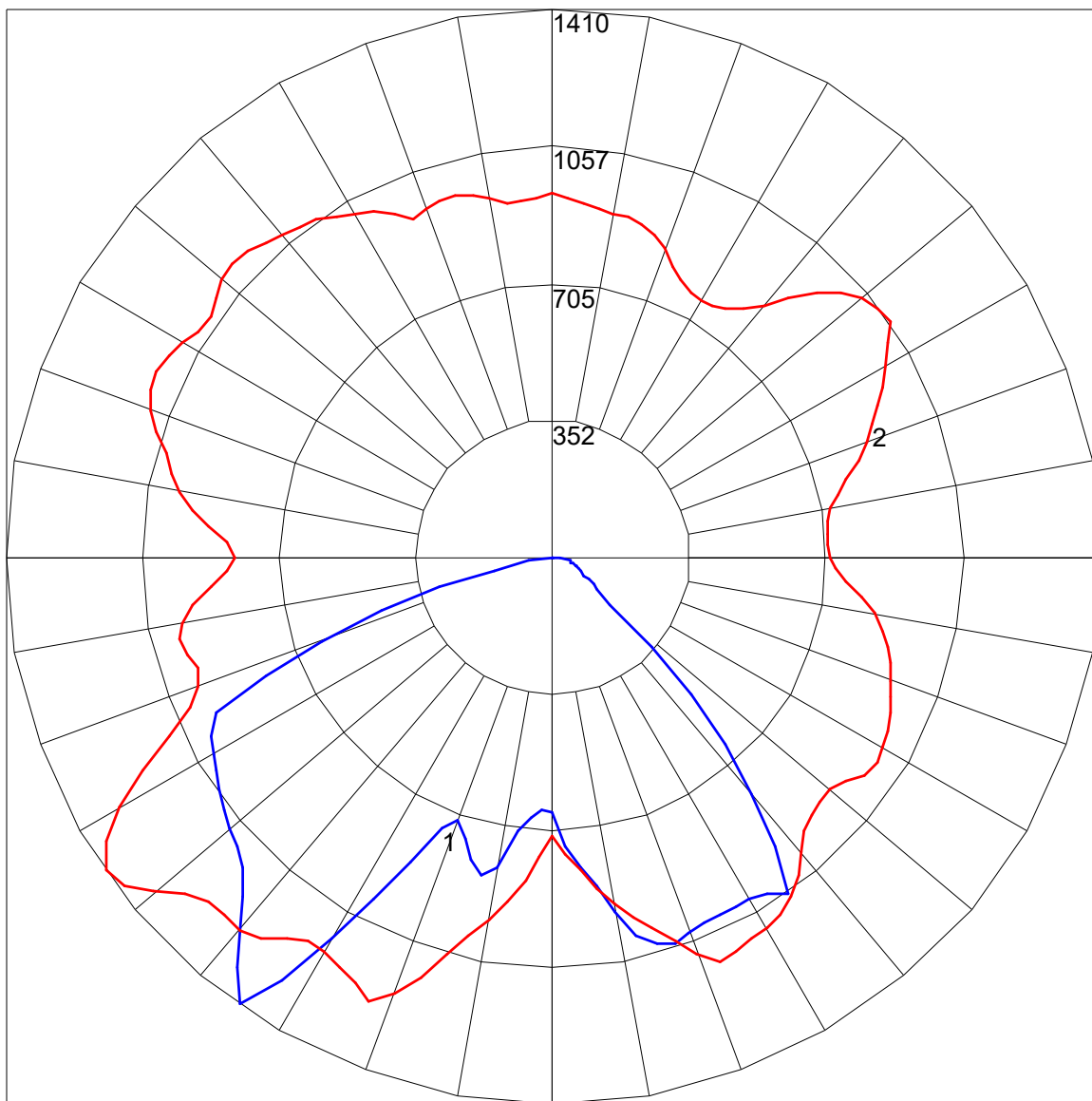
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	105	101	97	107	103	99	96	98	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	69	64	71	67	63	61
4	83	72	63	57	81	70	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	74	63	55	48	61	54	48	59	52	47	57	51	47	45
6	70	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	65	52	43	37	63	51	43	37	49	42	37	48	41	36	47	41	36	34
8	60	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1409.72 Located At Horizontal Angle = 215, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (215 - 35) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)