

## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB] EVERFINE

[TESTDATE] 08 March 2022

[ISSUEDATE] 2022-03-08 17:26:22

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-2000A\_V1 SYSTEM

[MANUFAC] BELUCE

[LUMINAIRE] HZX-EX-RX 30W

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

### CHARACTERISTICS

Lumens Per Lamp	4369.1 (1 lamp)
Total Lamp Lumens	4369.1
Luminaire Lumens	4370
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	30.7458
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.60 m
Luminous Width (90-270)	0.45 m
Luminous Height	0.00 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4253	4598	5440
55	3061	3968	5054
65	1852	2528	4371
75	338	1201	3417
85	0	0	2033

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**CANDELA TABULATION**

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
<b>0.0</b>	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
<b>2.5</b>	1506.77	1506.79	1506.85	1506.97	1507.13	1507.34	1507.59	1507.89	1508.24	1508.63
<b>5.0</b>	1482.21	1482.21	1482.31	1482.50	1482.78	1483.03	1483.15	1483.37	1483.71	1483.99
<b>7.5</b>	1457.47	1457.54	1457.75	1458.10	1458.22	1458.45	1458.72	1459.29	1459.93	1460.70
<b>10.0</b>	1432.72	1432.91	1433.28	1433.63	1434.07	1434.53	1434.91	1435.47	1436.35	1437.39
<b>12.5</b>	1408.20	1408.20	1408.41	1408.62	1408.97	1409.31	1409.82	1410.50	1411.16	1411.85
<b>15.0</b>	1383.67	1383.41	1383.33	1383.35	1383.61	1383.85	1383.96	1383.51	1383.08	1382.33
<b>17.5</b>	1349.14	1349.05	1348.90	1349.04	1349.77	1350.64	1350.94	1350.70	1349.40	1349.59
<b>20.0</b>	1314.60	1314.67	1314.08	1314.28	1315.43	1316.80	1317.32	1316.04	1315.40	1315.49
<b>22.5</b>	1279.87	1278.52	1278.03	1279.27	1280.50	1280.69	1279.82	1279.07	1279.49	1281.18
<b>25.0</b>	1245.14	1242.35	1242.55	1244.35	1244.41	1242.61	1240.95	1241.63	1243.66	1245.62
<b>27.5</b>	1211.05	1208.89	1207.69	1209.26	1209.67	1207.47	1205.85	1207.22	1209.43	1209.99
<b>30.0</b>	1176.95	1175.12	1172.57	1175.00	1176.39	1173.79	1172.15	1174.35	1176.89	1177.16
<b>32.5</b>	1115.82	1113.15	1113.17	1116.57	1117.88	1117.83	1120.97	1127.12	1132.82	1137.59
<b>35.0</b>	1054.68	1051.23	1053.03	1054.79	1054.81	1056.27	1060.51	1064.04	1068.84	1074.39
<b>37.5</b>	994.25	991.81	992.49	994.15	995.15	997.15	1000.35	1001.93	1007.20	1008.83
<b>40.0</b>	933.82	932.24	931.79	934.02	936.54	938.05	940.16	941.37	946.92	948.38
<b>42.5</b>	873.07	870.78	870.57	873.73	875.63	876.33	877.01	880.39	885.86	887.63
<b>45.0</b>	812.31	809.46	809.32	813.28	814.00	812.76	812.59	818.21	819.66	825.89
<b>47.5</b>	727.77	726.07	726.52	731.00	733.94	734.64	737.76	745.08	751.28	761.47
<b>50.0</b>	643.22	642.21	642.61	646.62	650.18	651.83	655.23	662.70	669.13	679.14
<b>52.5</b>	558.77	557.40	557.82	561.76	563.96	566.53	571.41	578.48	586.45	596.65
<b>55.0</b>	474.31	472.53	473.18	476.29	477.74	480.51	486.87	492.51	501.72	510.44
<b>57.5</b>	389.72	388.77	389.30	391.60	393.29	396.91	402.67	408.73	416.99	424.62
<b>60.0</b>	305.14	305.01	305.32	307.30	309.28	313.97	319.25	325.87	334.13	342.80
<b>62.5</b>	258.28	257.49	256.94	257.18	257.18	258.74	260.53	262.50	265.67	269.08
<b>65.0</b>	211.41	210.33	210.01	210.08	210.93	212.15	214.07	216.32	219.46	222.59
<b>67.5</b>	164.42	163.86	163.77	164.09	165.10	166.54	168.42	170.78	173.71	176.94
<b>70.0</b>	117.43	117.40	117.58	118.45	119.41	121.19	123.35	125.69	128.74	132.09
<b>72.5</b>	70.52	70.62	71.05	72.11	73.48	75.37	77.65	80.24	83.48	86.97
<b>75.0</b>	23.60	23.85	24.52	25.78	27.51	29.55	31.81	34.52	37.84	41.43
<b>77.5</b>	11.80	11.85	11.97	12.24	12.63	13.02	13.36	13.78	14.40	14.95
<b>80.0</b>	0.00	0.04	0.18	0.40	0.71	1.11	1.58	2.12	2.76	3.44
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.  
Angles**

**Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
<b>0.0</b>	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
<b>2.5</b>	1509.01	1509.41	1509.85	1510.34	1510.87	1511.46	1512.08	1512.75	1513.47	1514.22
<b>5.0</b>	1484.77	1485.53	1486.37	1487.30	1488.29	1489.36	1490.54	1491.80	1493.13	1494.55
<b>7.5</b>	1461.61	1462.65	1463.82	1465.07	1465.97	1466.96	1468.06	1469.22	1470.40	1472.49
<b>10.0</b>	1438.41	1439.38	1440.44	1441.12	1441.92	1442.87	1443.82	1444.98	1446.31	1447.63
<b>12.5</b>	1412.42	1412.87	1413.57	1414.45	1415.64	1417.09	1418.17	1419.40	1420.83	1422.53
<b>15.0</b>	1382.12	1382.39	1383.25	1384.46	1385.79	1387.42	1389.31	1391.60	1394.47	1397.56
<b>17.5</b>	1350.07	1351.30	1352.75	1354.20	1355.27	1358.22	1360.88	1363.18	1365.38	1367.56
<b>20.0</b>	1316.62	1318.28	1319.96	1322.28	1324.77	1326.85	1327.40	1329.72	1333.06	1336.53
<b>22.5</b>	1283.45	1285.73	1287.52	1289.90	1291.40	1292.49	1294.51	1297.48	1299.83	1302.19
<b>25.0</b>	1247.02	1248.87	1251.48	1253.35	1254.39	1257.07	1260.45	1262.18	1264.21	1266.92
<b>27.5</b>	1210.42	1211.46	1211.53	1212.04	1213.96	1216.89	1220.27	1224.18	1228.72	1232.19
<b>30.0</b>	1177.18	1176.74	1174.69	1173.29	1173.78	1175.83	1179.02	1183.08	1187.50	1191.64

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**CANDELA TABULATION - (Cont.)**

32.5	1145.02	1142.53	1138.96	1138.26	1138.91	1139.70	1140.01	1139.95	1141.52	1144.79
35.0	1078.35	1082.27	1088.50	1097.19	1104.62	1104.03	1103.95	1101.99	1099.91	1101.32
37.5	1010.81	1017.76	1025.01	1032.32	1041.72	1051.93	1061.14	1065.36	1065.24	1065.00
40.0	952.12	957.78	961.93	968.31	976.31	983.85	994.87	1006.99	1020.68	1026.69
42.5	894.09	899.08	902.63	909.98	914.77	921.30	930.16	937.86	949.34	960.36
45.0	831.20	835.44	842.43	851.86	854.52	863.31	867.54	872.59	878.20	886.10
47.5	765.86	770.13	779.35	784.17	793.25	799.78	805.98	813.13	815.39	819.82
50.0	685.57	697.44	706.80	719.10	723.68	729.09	739.27	745.98	753.74	761.11
52.5	604.38	616.36	625.73	637.58	643.71	658.68	666.84	674.92	685.27	695.87
55.0	519.54	532.59	541.98	555.79	562.78	577.50	586.44	600.75	614.79	627.12
57.5	435.98	444.14	455.71	464.81	479.15	492.98	507.18	522.17	537.31	549.57
60.0	353.25	361.68	370.31	379.73	391.85	405.61	421.80	439.16	458.26	471.18
62.5	273.42	279.87	288.26	299.03	310.08	323.84	338.27	354.87	369.88	387.72
65.0	225.99	227.14	228.30	232.19	233.87	244.75	259.88	275.68	288.55	304.39
67.5	178.96	180.29	182.75	186.07	190.08	194.64	200.41	205.41	213.08	226.90
70.0	134.76	136.82	139.75	142.45	146.86	151.43	156.62	160.33	165.38	166.66
72.5	90.45	93.62	97.27	100.87	105.65	110.36	115.25	119.16	122.03	125.78
75.0	45.31	49.39	53.82	58.27	63.59	69.07	74.70	80.14	83.94	88.98
77.5	15.74	16.69	17.59	18.66	21.23	26.95	32.90	38.97	44.67	51.06
80.0	4.24	5.13	6.07	7.12	8.21	9.37	10.61	12.00	13.62	15.11
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	1.85	3.33
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
2.5	1514.96	1515.83	1516.64	1517.45	1518.29	1519.16	1520.06	1520.99	1521.94	1522.92
5.0	1496.04	1497.57	1499.12	1500.70	1502.37	1504.12	1505.97	1507.89	1509.88	1511.94
7.5	1473.42	1475.19	1477.46	1479.67	1482.03	1484.56	1487.24	1489.79	1492.96	1495.92
10.0	1449.11	1450.31	1452.60	1454.64	1457.19	1459.95	1463.37	1467.07	1470.90	1474.85
12.5	1424.56	1426.87	1429.43	1432.18	1435.15	1438.19	1441.03	1444.35	1448.76	1452.91
15.0	1400.66	1403.36	1405.62	1407.84	1410.03	1413.18	1416.47	1420.20	1424.28	1429.43
17.5	1370.57	1373.83	1377.83	1381.80	1385.31	1388.70	1392.29	1395.87	1399.42	1403.26
20.0	1340.14	1343.71	1347.79	1352.24	1357.11	1360.71	1363.71	1367.45	1371.75	1376.56
22.5	1304.91	1308.48	1313.00	1318.26	1323.73	1330.07	1336.40	1339.72	1343.29	1347.18
25.0	1271.02	1274.79	1278.03	1281.85	1286.51	1292.07	1298.58	1306.04	1309.82	1313.27
27.5	1235.24	1236.98	1238.51	1239.02	1243.13	1249.24	1256.42	1264.32	1274.41	1278.20
30.0	1195.98	1197.83	1198.57	1200.12	1204.43	1208.32	1214.85	1223.16	1232.26	1241.21
32.5	1149.11	1154.46	1162.24	1163.61	1165.04	1165.74	1168.11	1176.73	1186.93	1198.23
35.0	1105.27	1109.66	1114.50	1118.81	1122.48	1125.31	1129.85	1135.42	1145.73	1157.12
37.5	1062.19	1058.13	1061.64	1068.94	1077.18	1084.82	1088.43	1090.89	1091.79	1102.41
40.0	1021.36	1017.60	1013.88	1017.19	1025.60	1034.69	1040.01	1037.52	1038.04	1043.81
42.5	973.47	974.21	971.12	967.60	965.07	974.64	984.39	990.18	987.80	986.36
45.0	898.76	913.93	927.49	922.15	920.97	916.38	923.76	932.76	938.15	948.49
47.5	827.95	840.33	857.44	878.12	875.21	865.33	858.96	874.35	897.42	905.51
50.0	765.33	775.83	783.67	799.16	814.77	814.40	813.19	816.04	829.73	844.17
52.5	708.55	713.85	715.78	717.94	733.54	754.36	762.58	753.99	758.69	776.49
55.0	635.58	646.04	655.71	658.91	663.38	675.75	693.48	703.25	695.76	704.38
57.5	561.02	577.26	587.00	600.13	599.82	606.32	617.89	637.61	639.00	628.67
60.0	487.07	502.05	512.67	525.35	540.51	545.92	548.12	556.04	575.51	570.36
62.5	408.62	424.90	439.10	454.15	466.27	483.59	490.28	485.81	493.16	514.44
65.0	319.95	342.28	364.39	379.52	398.21	409.01	422.26	430.29	425.78	438.39
67.5	241.77	263.21	278.19	300.99	326.03	339.46	349.15	359.11	371.05	369.20

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	174.40	189.99	203.51	222.02	242.04	263.47	280.18	286.49	299.37	313.17
<b>72.5</b>	134.94	137.76	142.72	151.68	169.33	181.54	201.28	222.80	228.69	235.66
<b>75.0</b>	95.18	97.90	102.73	109.43	112.91	115.67	133.25	145.74	165.23	176.04
<b>77.5</b>	57.88	62.86	68.30	73.21	74.93	79.56	85.10	90.57	102.34	115.26
<b>80.0</b>	19.23	25.99	32.84	39.46	44.39	49.58	53.31	56.52	61.33	66.48
<b>82.5</b>	4.94	6.68	8.63	10.72	13.03	18.84	24.96	30.68	34.87	38.26
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	1.93	4.32	7.08	10.27	15.10
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	<u><b>75.0</b></u>	<u><b>77.5</b></u>	<u><b>80.0</b></u>	<u><b>82.5</b></u>	<u><b>85.0</b></u>	<u><b>87.5</b></u>	<u><b>90.0</b></u>	<u><b>92.5</b></u>	<u><b>95.0</b></u>	<u><b>97.5</b></u>
<b>0.0</b>	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
<b>2.5</b>	1523.92	1524.93	1525.97	1527.03	1528.10	1529.19	1530.29	1530.48	1530.68	1530.88
<b>5.0</b>	1514.06	1516.23	1518.37	1520.67	1522.98	1525.30	1527.62	1527.88	1528.15	1528.41
<b>7.5</b>	1499.00	1502.21	1505.54	1508.97	1512.49	1516.10	1519.78	1520.12	1520.52	1520.98
<b>10.0</b>	1478.92	1483.11	1487.42	1491.40	1496.18	1500.97	1505.78	1506.41	1507.03	1507.66
<b>12.5</b>	1458.48	1463.67	1469.07	1474.68	1480.50	1486.51	1492.71	1493.32	1494.10	1495.04
<b>15.0</b>	1435.43	1441.72	1448.28	1455.10	1461.80	1469.36	1476.93	1477.25	1477.56	1478.75
<b>17.5</b>	1408.62	1415.94	1423.66	1431.74	1440.17	1448.94	1458.06	1458.44	1459.13	1460.10
<b>20.0</b>	1381.52	1388.39	1397.02	1406.16	1415.09	1425.62	1436.17	1436.37	1436.57	1438.39
<b>22.5</b>	1351.76	1356.37	1366.26	1376.70	1387.83	1399.56	1411.80	1411.88	1412.43	1413.50
<b>25.0</b>	1317.28	1322.21	1329.86	1342.00	1354.71	1367.69	1382.04	1381.82	1382.93	1384.22
<b>27.5</b>	1283.09	1288.29	1293.82	1305.98	1320.11	1335.21	1351.22	1351.14	1351.89	1353.46
<b>30.0</b>	1244.41	1249.05	1255.08	1265.87	1281.30	1297.13	1314.65	1314.21	1315.55	1317.34
<b>32.5</b>	1207.48	1213.35	1219.09	1228.34	1245.06	1262.73	1281.40	1281.00	1281.58	1283.09
<b>35.0</b>	1170.00	1175.85	1179.39	1183.63	1200.60	1220.50	1243.40	1240.88	1241.09	1243.72
<b>37.5</b>	1115.08	1125.76	1128.44	1132.48	1147.30	1170.20	1195.14	1193.10	1193.01	1200.64
<b>40.0</b>	1057.22	1071.90	1074.76	1077.65	1089.01	1110.65	1135.98	1133.72	1135.18	1147.94
<b>42.5</b>	997.77	1014.66	1026.74	1033.94	1045.25	1068.90	1094.23	1091.93	1092.07	1108.13
<b>45.0</b>	966.43	978.55	993.99	991.59	990.32	1012.13	1039.13	1035.06	1035.48	1058.43
<b>47.5</b>	904.92	915.15	931.58	931.86	927.35	949.75	980.15	975.56	978.53	1007.84
<b>50.0</b>	843.64	846.99	861.95	871.62	868.25	884.42	915.56	913.05	925.02	956.17
<b>52.5</b>	787.32	787.30	799.59	816.99	811.79	825.44	858.44	857.61	875.73	911.86
<b>55.0</b>	725.77	723.47	727.74	748.76	742.39	747.80	783.06	780.58	810.99	852.78
<b>57.5</b>	647.13	661.13	655.72	675.98	680.17	682.78	722.24	719.38	751.73	782.32
<b>60.0</b>	567.33	591.68	589.09	599.83	612.50	602.78	649.49	640.05	689.47	713.99
<b>62.5</b>	505.26	515.70	524.76	516.90	542.26	530.35	575.55	570.17	624.39	638.79
<b>65.0</b>	455.20	439.63	461.30	447.37	471.61	462.45	498.95	500.95	548.95	554.19
<b>67.5</b>	386.81	388.95	384.60	383.83	392.80	396.93	439.48	435.46	474.11	491.32
<b>70.0</b>	306.01	331.15	312.50	331.09	320.09	334.00	369.90	375.40	401.47	426.22
<b>72.5</b>	250.61	247.95	267.25	256.50	249.73	271.62	303.00	312.89	326.26	343.87
<b>75.0</b>	176.68	195.43	198.29	193.48	200.48	215.04	238.88	259.68	272.52	266.22
<b>77.5</b>	129.65	134.10	144.45	157.52	153.45	160.46	179.41	192.23	207.16	220.06
<b>80.0</b>	76.62	92.23	97.43	102.09	103.36	106.03	130.42	137.45	141.72	152.25
<b>82.5</b>	42.55	49.00	59.83	65.42	69.92	77.31	91.16	100.97	96.52	103.50
<b>85.0</b>	20.23	23.78	25.60	26.35	22.61	26.58	47.86	44.22	49.91	72.05
<b>87.5</b>	0.00	2.76	6.80	9.29	7.73	5.10	8.29	8.16	18.78	34.45
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	2.27	0.00	0.00	0.00

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

	<u><b>100.0</b></u>	<u><b>102.5</b></u>	<u><b>105.0</b></u>	<u><b>107.5</b></u>	<u><b>110.0</b></u>	<u><b>112.5</b></u>	<u><b>115.0</b></u>	<u><b>117.5</b></u>	<u><b>120.0</b></u>	<u><b>122.5</b></u>
<b>0.0</b>	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
<b>2.5</b>	1531.10	1531.33	1531.57	1531.81	1532.06	1532.32	1532.58	1532.85	1533.12	1533.39

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**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	1528.67	1529.06	1529.39	1529.73	1530.10	1530.48	1530.89	1531.32	1531.77	1532.25
<b>7.5</b>	1521.51	1522.11	1522.78	1523.51	1524.32	1524.85	1525.87	1526.70	1527.58	1528.51
<b>10.0</b>	1509.04	1510.06	1511.13	1512.25	1513.42	1514.62	1515.85	1517.23	1518.78	1521.04
<b>12.5</b>	1496.13	1497.37	1498.74	1499.64	1501.89	1503.76	1506.65	1509.93	1512.91	1515.79
<b>15.0</b>	1479.79	1481.06	1482.58	1484.36	1487.09	1491.15	1495.32	1499.62	1503.70	1508.30
<b>17.5</b>	1461.33	1462.79	1464.49	1467.89	1472.54	1477.29	1482.07	1487.06	1492.31	1497.94
<b>20.0</b>	1439.95	1441.97	1445.82	1451.65	1457.27	1462.97	1468.77	1474.77	1479.94	1483.71
<b>22.5</b>	1415.14	1417.18	1424.23	1431.18	1438.64	1446.56	1455.09	1459.54	1464.13	1469.24
<b>25.0</b>	1385.96	1391.84	1400.00	1408.71	1417.72	1426.17	1430.85	1436.04	1441.87	1448.14
<b>27.5</b>	1356.73	1366.21	1375.98	1385.99	1395.61	1400.75	1406.48	1412.43	1418.54	1423.97
<b>30.0</b>	1324.24	1336.10	1348.83	1361.84	1368.82	1375.16	1381.57	1389.00	1395.63	1402.06
<b>32.5</b>	1292.08	1304.80	1317.63	1326.66	1333.23	1340.93	1350.28	1361.16	1370.66	1378.12
<b>35.0</b>	1258.34	1273.95	1287.56	1293.34	1300.37	1308.59	1316.88	1327.64	1340.67	1349.70
<b>37.5</b>	1218.12	1236.30	1246.48	1253.64	1262.35	1273.45	1285.71	1297.37	1303.30	1308.51
<b>40.0</b>	1171.00	1194.21	1201.62	1212.88	1225.11	1237.99	1253.18	1260.50	1265.46	1269.78
<b>42.5</b>	1127.02	1138.55	1146.01	1154.84	1174.99	1198.72	1208.54	1213.96	1221.32	1239.65
<b>45.0</b>	1085.27	1092.36	1102.76	1117.61	1132.20	1142.20	1148.78	1156.73	1183.23	1207.95
<b>47.5</b>	1031.43	1039.10	1049.68	1068.22	1087.88	1089.65	1094.75	1117.75	1142.67	1165.81
<b>50.0</b>	973.75	985.23	1001.51	1022.22	1026.36	1031.61	1052.55	1080.18	1094.61	1090.11
<b>52.5</b>	924.64	937.99	951.26	957.80	957.53	979.64	1014.04	1025.63	1018.74	1017.22
<b>55.0</b>	865.08	881.92	899.26	892.24	900.07	928.59	944.33	945.72	947.37	961.54
<b>57.5</b>	793.33	818.09	821.30	817.21	849.73	865.19	859.15	867.76	889.64	904.84
<b>60.0</b>	731.52	750.77	739.83	761.65	784.14	780.63	789.26	810.12	828.73	834.55
<b>62.5</b>	661.85	663.78	670.23	707.55	696.82	707.87	735.53	743.08	745.16	765.50
<b>65.0</b>	590.03	570.42	609.96	614.29	621.79	647.56	659.99	669.10	687.93	715.24
<b>67.5</b>	495.44	508.81	524.48	526.49	569.18	574.23	575.98	613.32	640.80	645.04
<b>70.0</b>	414.50	445.43	436.49	475.77	479.28	502.52	533.41	551.06	563.24	584.42
<b>72.5</b>	363.38	359.72	389.62	392.31	419.33	449.05	466.36	481.28	511.34	540.89
<b>75.0</b>	283.77	306.08	308.78	340.57	359.54	372.03	408.75	438.61	451.21	451.66
<b>77.5</b>	224.67	231.26	264.31	276.15	299.66	334.35	342.72	351.13	361.73	378.25
<b>80.0</b>	158.53	191.33	195.71	235.19	240.46	246.85	267.02	284.63	296.53	306.66
<b>82.5</b>	122.20	142.74	149.74	159.63	179.46	191.06	199.86	207.25	207.85	181.65
<b>85.0</b>	82.77	91.26	100.91	105.57	100.95	80.76	55.30	27.66	0.00	0.00
<b>87.5</b>	32.79	15.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	<b><u>125.0</u></b>	<b><u>127.5</u></b>	<b><u>130.0</u></b>	<b><u>132.5</u></b>	<b><u>135.0</u></b>	<b><u>137.5</u></b>	<b><u>140.0</u></b>	<b><u>142.5</u></b>	<b><u>145.0</u></b>	<b><u>147.5</u></b>
<b>0.0</b>	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
<b>2.5</b>	1533.67	1533.92	1534.06	1534.30	1534.49	1534.68	1534.87	1535.06	1535.26	1535.45
<b>5.0</b>	1532.75	1533.21	1533.69	1534.13	1534.58	1535.03	1535.48	1535.93	1536.46	1536.99
<b>7.5</b>	1529.49	1530.31	1531.37	1532.38	1533.57	1534.75	1535.91	1537.04	1538.15	1539.25
<b>10.0</b>	1523.30	1525.18	1527.82	1530.04	1532.22	1534.09	1535.88	1537.63	1539.20	1540.70
<b>12.5</b>	1518.68	1521.51	1524.28	1527.10	1529.93	1532.69	1535.38	1537.89	1539.75	1541.46
<b>15.0</b>	1512.70	1516.97	1520.83	1524.04	1526.61	1529.25	1532.03	1534.88	1537.50	1540.09
<b>17.5</b>	1503.04	1506.92	1510.95	1515.25	1519.52	1523.60	1527.44	1530.86	1533.84	1537.63
<b>20.0</b>	1487.52	1491.65	1496.02	1500.98	1506.40	1512.72	1517.48	1521.59	1524.60	1527.19
<b>22.5</b>	1474.23	1479.17	1483.80	1487.26	1491.20	1495.73	1501.36	1506.80	1511.72	1515.93
<b>25.0</b>	1455.08	1461.57	1467.57	1472.00	1475.95	1480.51	1486.19	1491.13	1496.19	1499.78
<b>27.5</b>	1432.17	1439.49	1447.04	1453.71	1460.19	1462.82	1465.92	1469.76	1474.95	1480.96
<b>30.0</b>	1409.87	1418.14	1425.25	1429.95	1434.98	1439.98	1444.74	1449.65	1455.16	1463.07
<b>32.5</b>	1387.43	1391.13	1395.85	1401.67	1408.25	1415.29	1424.57	1433.56	1441.74	1449.86
<b>35.0</b>	1355.13	1359.74	1365.13	1374.03	1384.87	1397.99	1408.98	1418.57	1428.23	1428.07
<b>37.5</b>	1313.77	1323.99	1339.60	1352.43	1366.26	1380.07	1386.05	1382.62	1380.08	1378.73
<b>40.0</b>	1280.54	1296.40	1314.42	1331.26	1333.53	1330.62	1328.36	1327.45	1327.48	1329.01

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**CANDELA TABULATION - (Cont.)**

42.5	1254.27	1270.77	1279.71	1276.22	1274.10	1271.68	1269.77	1274.36	1279.74	1285.45
45.0	1231.79	1223.13	1216.78	1213.11	1211.13	1218.25	1222.69	1227.42	1232.42	1240.06
47.5	1161.47	1156.53	1154.36	1157.45	1162.67	1168.64	1176.06	1176.64	1178.94	1182.94
50.0	1086.92	1091.61	1096.58	1108.63	1115.11	1113.58	1115.58	1119.33	1121.56	1127.35
52.5	1029.93	1039.58	1044.94	1044.81	1049.41	1055.30	1054.98	1068.27	1082.19	1093.74
55.0	978.57	984.91	985.40	981.43	980.67	1004.47	1020.91	1030.11	1048.96	1060.12
57.5	908.26	917.76	924.36	935.61	944.47	964.18	984.49	991.44	1001.64	1016.39
60.0	835.26	855.22	880.29	894.50	902.33	914.01	930.49	946.94	954.67	974.70
62.5	788.49	806.43	829.94	841.46	848.38	860.63	881.73	905.85	921.45	941.73
65.0	737.05	743.41	755.96	783.02	802.06	822.14	847.53	870.50	882.46	884.75
67.5	664.67	686.51	705.55	740.97	763.16	769.97	781.13	784.35	794.11	791.29
70.0	611.25	644.18	655.00	669.88	678.47	678.92	684.73	694.99	704.49	708.62
72.5	548.95	562.56	566.25	569.65	589.16	598.55	605.72	616.48	627.05	629.27
75.0	458.44	469.75	490.59	499.40	513.76	523.54	528.75	535.36	541.67	544.63
77.5	391.74	400.16	415.28	421.67	430.65	435.51	443.61	447.98	451.32	442.47
80.0	312.66	317.61	323.75	320.35	295.09	266.98	243.29	216.72	191.25	168.99
82.5	157.07	128.73	97.86	70.19	39.95	9.55	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	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
2.5	1535.64	1535.83	1536.02	1536.16	1536.24	1536.30	1536.36	1536.40	1536.44	1536.47
5.0	1537.52	1538.04	1538.55	1538.88	1539.59	1540.13	1540.67	1541.21	1541.63	1541.63
7.5	1540.13	1540.99	1541.85	1542.70	1543.53	1544.34	1545.01	1545.64	1546.15	1546.60
10.0	1542.13	1543.52	1544.83	1546.13	1547.47	1548.79	1549.87	1550.91	1551.44	1551.81
12.5	1543.14	1544.75	1546.30	1547.76	1549.12	1550.60	1552.22	1553.78	1555.31	1556.16
15.0	1542.20	1544.25	1546.34	1548.37	1550.34	1552.02	1553.74	1555.76	1557.97	1560.07
17.5	1539.93	1541.63	1542.80	1544.23	1545.59	1547.28	1548.42	1549.69	1551.36	1553.13
20.0	1529.63	1532.18	1534.21	1536.05	1537.99	1539.88	1541.67	1542.75	1544.31	1545.90
22.5	1519.00	1521.75	1524.06	1526.08	1528.10	1530.30	1532.54	1534.46	1535.79	1536.88
25.0	1503.27	1506.62	1509.80	1512.90	1516.03	1519.00	1521.84	1525.04	1527.44	1527.99
27.5	1485.72	1489.70	1495.13	1500.17	1504.84	1509.46	1513.44	1517.45	1520.16	1520.73
30.0	1471.80	1478.05	1484.27	1490.57	1495.79	1501.19	1505.91	1510.80	1514.29	1513.51
32.5	1460.13	1467.99	1473.23	1473.26	1472.61	1472.48	1473.58	1474.75	1476.07	1474.86
35.0	1426.55	1427.84	1427.20	1425.49	1425.68	1425.09	1426.81	1429.73	1431.64	1432.84
37.5	1377.08	1375.98	1377.60	1379.90	1379.85	1381.13	1383.19	1387.61	1390.15	1391.27
40.0	1330.82	1331.47	1334.66	1338.24	1338.64	1339.19	1341.41	1347.13	1349.55	1349.99
42.5	1289.26	1289.38	1292.43	1296.33	1295.98	1296.45	1295.84	1301.34	1306.02	1307.29
45.0	1243.78	1245.32	1243.94	1247.09	1249.81	1250.82	1250.84	1252.77	1261.40	1264.22
47.5	1189.09	1195.24	1197.73	1199.07	1207.57	1212.44	1215.95	1219.44	1228.80	1233.29
50.0	1140.51	1154.96	1164.57	1168.69	1177.98	1182.71	1186.33	1191.68	1199.83	1203.77
52.5	1106.99	1121.59	1132.38	1137.33	1146.17	1151.67	1154.75	1159.18	1167.39	1171.54
55.0	1069.64	1081.78	1092.75	1099.71	1108.52	1117.85	1121.29	1126.17	1134.38	1139.08
57.5	1027.40	1037.06	1050.97	1063.07	1073.61	1085.61	1090.58	1097.01	1104.45	1109.60
60.0	990.88	1003.71	1018.44	1031.44	1044.14	1057.20	1060.75	1068.80	1076.25	1080.26
62.5	960.19	972.24	984.61	986.88	991.38	995.95	994.80	996.33	999.25	999.56
65.0	891.15	892.43	895.17	898.31	902.64	906.79	909.43	910.25	912.94	914.34
67.5	799.75	802.76	806.66	812.69	817.78	821.69	826.05	828.07	830.08	831.59
70.0	716.84	722.70	726.90	732.16	737.34	739.75	743.40	747.45	747.73	749.41
72.5	637.32	641.15	644.77	649.29	654.40	655.60	657.60	662.11	663.23	664.64
75.0	548.41	554.51	557.79	562.76	568.56	570.16	570.56	575.96	579.00	579.77
77.5	418.27	400.95	381.93	365.88	352.14	337.70	323.60	314.97	307.23	299.75

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	144.20	123.18	102.63	84.21	67.33	51.92	38.14	26.78	17.28	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>175.0</b>	<b>177.5</b>	<b>180.0</b>	<b>182.5</b>	<b>185.0</b>	<b>187.5</b>	<b>190.0</b>	<b>192.5</b>	<b>195.0</b>	<b>197.5</b>
<b>0.0</b>	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
<b>2.5</b>	1536.48	1536.49	1536.49	1536.52	1536.54	1536.55	1536.55	1536.55	1536.53	1536.51
<b>5.0</b>	1541.64	1541.65	1541.66	1541.58	1541.49	1541.41	1541.32	1541.06	1540.93	1540.79
<b>7.5</b>	1546.57	1546.52	1546.44	1546.16	1545.87	1545.55	1545.36	1545.16	1544.93	1544.61
<b>10.0</b>	1551.75	1551.48	1551.21	1550.69	1550.18	1549.86	1549.38	1549.05	1548.72	1548.36
<b>12.5</b>	1556.71	1556.73	1556.61	1556.03	1555.49	1554.51	1553.79	1553.45	1552.95	1552.18
<b>15.0</b>	1561.44	1561.95	1562.01	1561.46	1560.49	1558.77	1558.33	1558.11	1558.03	1556.99
<b>17.5</b>	1554.05	1554.29	1553.95	1552.98	1552.20	1551.85	1552.22	1552.37	1552.24	1551.89
<b>20.0</b>	1546.61	1546.63	1545.89	1544.28	1543.98	1544.65	1544.55	1543.89	1543.64	1541.95
<b>22.5</b>	1538.07	1539.03	1538.69	1537.43	1536.86	1537.31	1537.07	1536.31	1534.87	1532.14
<b>25.0</b>	1528.86	1531.06	1531.48	1530.62	1529.18	1529.87	1529.97	1528.69	1527.05	1523.69
<b>27.5</b>	1522.05	1523.57	1523.42	1522.45	1522.16	1522.13	1521.15	1519.33	1516.14	1513.15
<b>30.0</b>	1514.62	1516.12	1515.36	1514.39	1514.58	1513.74	1512.19	1508.05	1504.61	1503.20
<b>32.5</b>	1473.93	1474.94	1475.07	1474.31	1474.81	1475.43	1475.58	1474.09	1474.63	1475.92
<b>35.0</b>	1431.85	1432.74	1434.77	1433.26	1433.30	1434.44	1434.84	1433.74	1433.00	1433.70
<b>37.5</b>	1391.19	1392.99	1393.59	1391.71	1391.31	1391.97	1392.08	1389.54	1389.13	1389.27
<b>40.0</b>	1350.45	1352.50	1352.41	1349.22	1349.27	1349.13	1347.47	1343.99	1342.97	1342.34
<b>42.5</b>	1307.79	1310.61	1312.14	1309.65	1307.86	1308.25	1306.11	1302.05	1299.38	1297.19
<b>45.0</b>	1264.96	1267.66	1271.86	1269.23	1266.45	1267.20	1266.30	1260.26	1256.85	1254.70
<b>47.5</b>	1235.55	1238.39	1240.60	1237.48	1235.50	1234.58	1231.53	1224.37	1220.22	1215.66
<b>50.0</b>	1206.88	1208.55	1209.33	1205.01	1205.07	1203.10	1197.80	1191.43	1186.67	1182.47
<b>52.5</b>	1175.43	1178.26	1178.39	1175.82	1175.43	1173.17	1168.48	1161.95	1155.91	1151.87
<b>55.0</b>	1143.90	1147.27	1147.44	1146.18	1145.95	1143.41	1140.64	1133.64	1127.37	1121.90
<b>57.5</b>	1115.43	1116.79	1116.78	1115.32	1114.62	1112.78	1108.83	1101.75	1095.61	1089.89
<b>60.0</b>	1085.91	1085.87	1086.13	1084.10	1082.09	1081.82	1076.39	1068.87	1061.47	1056.50
<b>62.5</b>	1002.80	1003.43	1002.32	1001.89	1002.61	1002.74	1002.16	998.73	996.61	995.47
<b>65.0</b>	913.75	919.31	918.50	918.13	917.16	919.49	920.99	916.66	915.81	914.19
<b>67.5</b>	832.98	836.71	834.84	835.88	834.38	835.58	835.40	832.88	831.34	830.22
<b>70.0</b>	746.99	752.85	751.18	752.40	746.44	751.52	749.28	748.78	745.87	744.18
<b>72.5</b>	664.77	668.23	668.12	669.37	666.32	667.58	667.31	665.95	663.34	661.11
<b>75.0</b>	578.61	582.47	585.05	585.31	581.88	583.72	586.05	583.47	582.21	579.41
<b>77.5</b>	294.69	292.53	292.53	294.02	296.16	301.94	310.89	319.76	331.17	344.12
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	17.47	27.21	39.04	52.91
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>200.0</b>	<b>202.5</b>	<b>205.0</b>	<b>207.5</b>	<b>210.0</b>	<b>212.5</b>	<b>215.0</b>	<b>217.5</b>	<b>220.0</b>	<b>222.5</b>
<b>0.0</b>	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
<b>2.5</b>	1536.48	1536.45	1536.39	1536.19	1536.03	1535.86	1535.68	1535.49	1535.29	1535.09
<b>5.0</b>	1540.62	1540.43	1540.13	1539.74	1539.32	1538.88	1538.41	1537.97	1537.33	1536.72
<b>7.5</b>	1544.23	1543.83	1543.26	1542.59	1541.91	1541.26	1540.32	1539.42	1538.51	1537.72
<b>10.0</b>	1547.38	1546.40	1545.39	1544.34	1543.27	1542.02	1540.74	1539.61	1537.99	1536.64
<b>12.5</b>	1551.12	1549.83	1548.44	1546.92	1545.01	1542.66	1540.26	1537.95	1536.03	1534.02

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**CANDELA TABULATION - (Cont.)**

15.0	1555.70	1554.35	1552.50	1550.05	1547.07	1543.99	1541.13	1538.45	1534.85	1531.83
17.5	1551.57	1550.54	1549.36	1547.89	1547.04	1545.39	1541.56	1537.19	1532.74	1528.06
20.0	1539.73	1538.23	1536.94	1535.94	1533.51	1531.48	1529.50	1527.80	1525.48	1523.85
22.5	1529.54	1527.59	1525.06	1521.55	1518.78	1515.76	1513.27	1511.15	1509.41	1508.23
25.0	1520.84	1518.96	1515.69	1511.60	1507.43	1503.52	1499.92	1495.08	1490.70	1486.80
27.5	1512.29	1509.49	1505.82	1501.98	1497.53	1492.63	1487.06	1480.83	1473.47	1465.46
30.0	1499.99	1496.08	1492.25	1487.70	1482.77	1478.05	1473.15	1465.92	1456.88	1448.49
32.5	1476.01	1477.22	1477.76	1470.82	1464.95	1458.16	1450.73	1444.11	1437.12	1432.68
35.0	1433.66	1434.27	1434.08	1434.04	1432.94	1430.57	1427.31	1421.77	1415.60	1406.92
37.5	1389.69	1390.87	1392.09	1392.00	1389.15	1386.73	1385.83	1386.77	1382.89	1379.36
40.0	1342.14	1344.30	1345.00	1343.33	1341.17	1340.62	1342.43	1340.63	1337.17	1337.26
42.5	1296.59	1298.60	1294.48	1290.37	1288.51	1289.91	1290.06	1287.65	1289.44	1287.79
45.0	1253.94	1256.29	1250.35	1243.84	1240.63	1236.64	1231.00	1228.86	1230.22	1232.32
47.5	1215.69	1215.35	1207.21	1200.05	1196.83	1190.73	1180.60	1173.39	1170.63	1170.33
50.0	1182.62	1176.09	1166.63	1159.47	1154.24	1144.78	1132.14	1125.63	1120.61	1113.12
52.5	1147.68	1136.91	1127.58	1120.31	1110.13	1097.77	1089.02	1081.30	1070.28	1061.21
55.0	1117.13	1106.40	1096.55	1085.58	1069.00	1058.28	1049.50	1036.36	1023.41	1012.17
57.5	1084.30	1075.73	1066.35	1053.78	1036.67	1030.13	1016.67	997.41	977.14	965.95
60.0	1047.07	1038.64	1027.17	1013.82	1004.36	1000.78	987.21	965.73	945.41	927.03
62.5	993.37	991.23	984.91	972.04	973.35	961.73	943.67	924.83	909.90	895.06
65.0	912.77	910.76	905.16	899.45	909.95	904.89	894.61	879.49	865.55	847.67
67.5	829.27	828.86	824.85	818.32	828.53	822.84	814.08	805.11	802.37	785.16
70.0	743.70	742.92	735.59	735.49	740.38	735.89	729.60	725.10	722.96	707.54
72.5	660.53	658.58	650.10	652.91	648.06	644.87	637.06	636.03	632.85	622.61
75.0	579.01	578.83	571.06	570.73	566.55	562.64	554.17	551.27	542.29	536.27
77.5	360.65	379.84	394.89	417.05	438.31	463.94	474.28	472.80	465.56	462.59
80.0	69.08	87.42	106.21	128.45	151.19	176.81	201.46	230.03	258.81	291.29
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.44
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	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
2.5	1534.88	1534.66	1534.44	1534.21	1534.02	1533.64	1533.35	1533.05	1532.76	1532.46
5.0	1536.10	1535.45	1534.79	1534.11	1533.60	1532.52	1531.70	1530.89	1530.08	1529.27
7.5	1536.56	1535.55	1534.40	1533.22	1532.14	1531.10	1530.06	1529.01	1527.98	1526.94
10.0	1535.49	1533.97	1532.64	1531.36	1530.02	1528.67	1527.37	1525.66	1524.15	1522.36
12.5	1532.05	1530.08	1528.13	1526.29	1524.49	1522.79	1521.24	1520.09	1518.19	1516.46
15.0	1527.83	1524.24	1520.55	1517.65	1515.04	1512.57	1510.18	1507.96	1505.80	1503.70
17.5	1523.19	1518.31	1513.89	1509.74	1505.30	1501.39	1498.85	1494.86	1491.87	1489.07
20.0	1519.02	1514.50	1509.22	1502.99	1496.34	1489.38	1482.44	1477.26	1474.07	1470.31
22.5	1506.31	1504.35	1502.50	1493.09	1484.51	1476.08	1468.11	1460.46	1453.43	1449.70
25.0	1482.92	1479.32	1476.03	1473.63	1471.73	1463.15	1454.46	1445.80	1436.30	1427.05
27.5	1458.36	1454.20	1451.87	1449.28	1446.91	1445.06	1439.66	1428.12	1416.65	1405.93
30.0	1441.83	1435.01	1426.26	1420.03	1416.63	1413.67	1411.10	1409.05	1397.01	1384.76
32.5	1425.52	1414.67	1404.11	1395.14	1386.21	1382.08	1378.84	1376.55	1374.86	1361.72
35.0	1398.83	1392.88	1385.14	1374.25	1361.96	1350.86	1344.28	1340.88	1338.50	1336.60
37.5	1372.44	1364.37	1356.69	1349.47	1337.34	1324.09	1309.21	1296.97	1293.48	1291.65
40.0	1336.78	1332.55	1323.62	1315.38	1307.22	1294.16	1276.34	1263.41	1252.81	1248.95
42.5	1286.60	1285.72	1284.52	1275.37	1264.27	1257.02	1250.36	1231.50	1212.03	1199.85
45.0	1235.42	1233.99	1228.83	1226.65	1229.83	1215.93	1205.37	1196.06	1172.57	1146.91
47.5	1170.96	1172.19	1175.07	1177.02	1169.96	1165.73	1150.79	1140.70	1130.09	1110.31
50.0	1104.34	1107.20	1111.06	1112.50	1113.97	1102.39	1100.65	1093.05	1081.03	1068.59



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**CANDELA TABULATION - (Cont.)**

52.5	1054.68	1047.61	1036.86	1042.42	1038.63	1042.87	1040.47	1031.99	1023.99	1013.84
55.0	1005.14	992.18	985.21	968.18	963.50	967.76	970.93	968.71	965.21	958.57
57.5	952.41	940.18	932.28	909.14	899.97	882.89	893.99	902.71	903.10	893.78
60.0	906.35	884.16	866.09	854.97	837.86	828.78	819.73	818.24	826.13	826.83
62.5	871.64	840.12	818.65	789.90	778.89	773.91	758.72	740.59	736.28	746.37
65.0	822.42	803.75	782.22	750.79	726.94	704.80	690.22	678.44	661.16	650.45
67.5	770.55	752.59	732.29	709.58	687.54	654.00	623.41	608.64	598.35	580.69
70.0	698.59	687.28	671.63	651.17	628.61	606.94	583.25	548.77	524.38	519.20
72.5	619.94	613.15	598.84	582.87	561.14	543.35	520.73	505.17	478.18	444.48
75.0	531.09	525.31	514.93	506.68	494.57	477.31	455.62	435.28	419.58	401.96
77.5	452.78	446.50	432.00	416.67	408.43	399.88	389.51	375.73	350.23	328.03
80.0	320.53	355.30	364.66	351.01	338.54	325.26	308.61	296.13	285.56	276.43
82.5	43.43	78.06	111.47	145.19	178.10	212.77	241.67	237.64	222.35	199.79
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.91	67.44	96.48
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	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
2.5	1532.18	1531.89	1531.61	1531.33	1531.06	1530.79	1530.54	1530.29	1530.05	1529.01
5.0	1528.48	1527.69	1526.92	1526.16	1525.43	1524.72	1524.03	1523.37	1522.74	1520.69
7.5	1526.00	1524.71	1523.57	1522.47	1521.39	1520.35	1519.35	1518.39	1517.48	1514.45
10.0	1520.81	1519.31	1517.87	1516.48	1515.15	1513.87	1512.64	1511.47	1510.34	1506.20
12.5	1514.01	1511.58	1509.54	1506.59	1504.21	1501.96	1499.86	1497.90	1496.11	1491.39
15.0	1502.14	1498.80	1495.44	1492.19	1489.06	1486.09	1483.27	1480.62	1478.17	1472.63
17.5	1486.46	1484.21	1481.18	1477.53	1472.96	1469.27	1465.87	1462.74	1459.86	1453.45
20.0	1467.49	1465.42	1462.92	1459.25	1454.30	1449.52	1444.99	1440.77	1436.93	1430.30
22.5	1446.86	1442.83	1440.00	1437.61	1431.92	1426.05	1420.58	1415.54	1410.95	1403.17
25.0	1421.87	1417.84	1415.49	1411.69	1407.89	1401.31	1395.28	1389.79	1384.84	1376.25
27.5	1396.02	1391.43	1387.78	1384.88	1383.23	1375.53	1368.08	1361.20	1355.01	1346.46
30.0	1372.71	1361.23	1356.98	1353.39	1350.45	1344.49	1335.32	1326.94	1319.41	1310.56
32.5	1347.66	1332.86	1322.09	1317.67	1314.22	1310.73	1300.91	1292.10	1284.25	1274.37
35.0	1318.40	1301.56	1285.92	1281.00	1277.59	1275.73	1266.62	1257.66	1249.88	1237.78
37.5	1287.69	1270.90	1254.63	1240.54	1237.31	1235.87	1225.85	1211.71	1199.34	1189.98
40.0	1247.67	1237.39	1216.52	1198.47	1191.04	1188.80	1182.96	1166.86	1151.76	1144.70
42.5	1196.86	1198.53	1174.61	1145.82	1131.12	1129.09	1124.40	1109.27	1096.04	1086.64
45.0	1136.77	1134.19	1130.27	1105.44	1082.80	1080.14	1081.35	1061.72	1044.10	1035.95
47.5	1086.32	1079.05	1078.95	1059.11	1032.76	1025.47	1025.76	1009.99	992.50	984.08
50.0	1041.23	1020.06	1019.76	1015.96	982.42	962.43	965.76	952.31	932.90	926.70
52.5	999.40	968.72	950.95	948.87	925.43	900.01	904.35	896.36	877.89	869.87
55.0	947.21	920.98	887.52	883.66	874.71	846.14	845.06	837.93	810.80	807.40
57.5	883.98	874.24	840.64	817.40	825.75	782.70	769.93	767.93	740.20	736.05
60.0	811.22	799.85	784.55	745.13	744.83	725.98	698.91	702.65	668.52	668.25
62.5	739.71	720.02	714.20	686.85	664.15	663.82	622.72	630.25	594.95	593.48
65.0	660.06	650.17	635.85	632.20	584.64	594.11	546.50	554.90	516.05	524.58
67.5	566.63	577.68	561.74	544.46	523.15	507.18	487.87	480.66	441.04	444.53
70.0	505.17	479.79	490.35	457.88	461.49	431.14	436.87	408.89	365.90	365.36
72.5	436.35	421.30	393.54	403.83	376.90	371.64	377.85	332.11	299.50	291.80
75.0	369.09	350.16	337.87	312.60	314.50	308.50	285.49	260.06	237.86	222.04
77.5	314.95	294.37	261.83	260.40	241.28	227.76	217.16	199.83	179.31	167.47
80.0	252.85	230.52	222.68	191.49	188.34	177.29	169.20	159.46	125.64	127.32
82.5	186.71	180.31	163.80	145.53	132.27	127.21	118.31	108.19	88.98	84.20
85.0	124.01	123.05	106.92	100.01	93.35	86.79	81.71	69.78	40.92	44.77
87.5	0.00	0.00	0.00	20.71	47.83	40.90	31.86	25.59	7.21	11.49

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

90.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.57 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	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
2.5	1527.98	1526.97	1525.97	1524.99	1524.03	1523.08	1522.16	1521.26	1520.38	1519.53
5.0	1518.67	1516.70	1514.77	1512.89	1511.07	1509.29	1507.58	1505.93	1504.35	1502.83
7.5	1511.47	1508.55	1505.70	1502.91	1500.18	1497.52	1495.08	1492.32	1489.69	1487.12
10.0	1502.12	1498.11	1494.18	1490.35	1486.62	1482.99	1479.50	1476.13	1473.06	1469.89
12.5	1486.85	1482.47	1478.27	1474.24	1470.82	1466.61	1462.88	1459.28	1455.08	1451.16
15.0	1467.32	1462.24	1457.41	1452.86	1448.58	1444.59	1440.78	1434.86	1429.81	1425.16
17.5	1447.30	1441.45	1435.91	1431.27	1425.84	1419.92	1413.38	1407.28	1401.54	1396.11
20.0	1424.07	1418.21	1412.67	1407.40	1400.91	1393.52	1385.66	1378.78	1373.15	1366.69
22.5	1395.88	1389.06	1382.71	1376.35	1367.02	1358.20	1350.65	1342.50	1335.68	1333.66
25.0	1368.21	1360.72	1353.81	1344.39	1335.04	1324.50	1315.58	1307.78	1303.90	1300.66
27.5	1338.62	1331.42	1324.58	1311.89	1300.62	1290.33	1281.77	1276.58	1272.82	1269.78
30.0	1302.63	1295.65	1285.51	1272.55	1260.65	1249.81	1246.67	1243.75	1241.32	1238.24
32.5	1265.45	1257.56	1243.77	1229.99	1217.31	1210.14	1207.46	1206.05	1206.00	1193.27
35.0	1226.97	1216.46	1198.73	1183.13	1169.55	1168.39	1168.45	1168.33	1154.39	1142.45
37.5	1182.33	1170.87	1151.54	1133.60	1125.63	1122.12	1120.56	1110.49	1099.64	1089.06
40.0	1138.48	1123.13	1104.21	1088.87	1081.84	1078.72	1069.28	1055.71	1043.80	1040.59
42.5	1079.59	1061.36	1040.82	1035.84	1041.59	1039.21	1020.61	1005.51	997.59	997.44
45.0	1029.58	1004.56	981.99	978.01	982.32	970.70	957.51	954.85	958.33	954.95
47.5	974.15	948.20	930.47	930.64	923.00	903.39	890.69	897.18	907.70	903.43
50.0	914.79	887.69	878.11	879.39	862.03	843.21	842.39	844.15	838.56	835.61
52.5	851.50	821.78	821.65	819.75	797.71	788.94	792.78	787.01	776.30	766.04
55.0	784.74	756.11	758.61	743.95	723.66	732.22	733.10	720.95	712.76	705.89
57.5	705.66	687.88	698.73	669.15	663.98	671.87	657.97	650.08	651.57	642.77
60.0	630.77	621.40	611.76	590.09	606.24	596.52	583.61	587.25	579.67	564.10
62.5	552.94	553.11	531.66	533.24	533.97	517.95	525.21	517.94	500.52	494.51
65.0	485.22	499.56	468.23	474.94	460.81	461.01	457.35	440.22	439.57	438.57
67.5	416.67	411.15	405.19	403.08	396.29	397.56	379.95	382.84	380.24	354.03
70.0	351.88	329.50	347.17	329.12	338.70	319.21	325.53	315.41	290.74	270.85
72.5	289.37	275.54	272.21	279.10	261.53	268.27	253.35	229.69	216.92	198.49
75.0	216.92	225.58	218.19	206.83	213.48	196.23	178.89	165.73	143.63	119.88
77.5	162.04	157.95	159.05	160.91	141.56	132.66	115.49	91.96	88.72	86.50
80.0	123.50	119.57	116.44	98.83	91.68	71.14	66.02	62.99	56.88	50.60
82.5	84.06	82.39	66.69	54.90	47.96	43.17	36.63	30.50	24.72	18.38
85.0	46.46	36.97	29.96	26.99	21.04	15.20	9.98	6.77	4.19	1.86
87.5	10.09	10.05	8.23	2.98	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	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
2.5	1518.70	1517.90	1517.22	1516.38	1515.59	1514.84	1514.11	1513.42	1512.75	1512.12
5.0	1501.39	1500.02	1499.06	1497.49	1496.27	1495.12	1494.06	1493.08	1492.18	1491.49
7.5	1484.62	1482.19	1479.84	1477.60	1475.56	1474.43	1471.63	1469.88	1468.25	1466.88
10.0	1467.42	1463.87	1460.88	1458.01	1455.20	1452.60	1450.37	1447.81	1445.61	1443.82
12.5	1446.54	1442.44	1438.69	1435.18	1431.71	1428.45	1425.51	1422.89	1420.51	1418.44
15.0	1420.87	1416.61	1412.66	1408.98	1405.64	1403.24	1401.15	1399.48	1396.78	1394.84
17.5	1391.65	1386.44	1383.00	1381.06	1379.29	1377.45	1375.56	1373.95	1372.63	1370.71
20.0	1361.92	1358.97	1356.37	1353.96	1351.95	1350.63	1349.91	1348.32	1343.10	1339.07
22.5	1332.70	1331.38	1329.14	1326.96	1325.52	1319.18	1313.43	1308.42	1303.94	1299.79

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZX-EX-RX 30W 5000K.IES**

**CANDELA TABULATION - (Cont.)**

25.0	1298.23	1297.14	1298.06	1292.18	1286.16	1279.93	1274.12	1268.74	1264.01	1260.19
27.5	1267.05	1260.52	1252.28	1245.61	1240.13	1235.57	1233.24	1230.87	1228.08	1225.54
30.0	1227.72	1217.89	1209.37	1202.06	1197.12	1195.25	1194.28	1193.79	1192.87	1190.59
32.5	1182.29	1172.52	1165.48	1161.26	1159.09	1157.85	1157.28	1156.84	1153.92	1151.44
35.0	1131.58	1125.59	1122.84	1122.41	1120.55	1117.78	1113.83	1110.98	1109.35	1108.34
37.5	1085.88	1083.20	1081.59	1079.46	1072.81	1068.44	1065.36	1063.02	1060.62	1054.89
40.0	1040.20	1040.97	1036.76	1029.47	1023.73	1017.69	1011.29	1006.83	1001.45	996.45
42.5	998.55	993.42	986.40	979.27	971.77	963.08	954.57	947.68	944.40	935.16
45.0	947.67	940.63	935.83	925.28	913.75	905.49	898.09	885.90	875.87	867.31
47.5	895.80	887.57	875.92	864.10	854.27	839.55	829.27	819.83	811.85	803.32
50.0	831.74	826.28	817.62	803.84	785.20	766.94	756.86	756.81	754.03	747.28
52.5	765.11	761.16	746.04	730.56	720.39	704.80	694.76	696.92	695.91	681.54
55.0	696.95	684.99	668.69	659.62	658.00	651.38	629.42	615.32	603.96	588.79
57.5	622.79	604.96	605.96	596.65	591.04	575.79	550.63	523.28	509.92	500.91
60.0	555.70	545.33	547.89	525.12	499.25	479.85	466.10	444.90	428.62	417.96
62.5	495.77	485.23	453.45	433.18	416.76	397.48	383.59	365.92	347.49	333.26
65.0	415.94	392.58	374.25	349.79	338.76	318.02	299.55	281.25	261.50	247.37
67.5	327.33	311.73	296.97	271.71	253.55	233.64	213.74	204.28	200.24	198.29
70.0	254.72	234.94	214.00	191.14	173.01	171.67	168.38	163.91	159.37	156.46
72.5	175.07	151.89	144.78	142.14	135.58	132.91	127.79	122.12	116.33	111.44
75.0	114.13	112.05	108.84	103.98	96.48	90.18	85.42	79.49	73.58	68.25
77.5	80.66	75.07	68.90	62.78	56.93	50.10	44.51	38.47	32.53	26.71
80.0	44.80	38.29	32.18	25.55	18.78	14.71	13.18	11.75	10.49	9.30
82.5	12.75	10.52	8.36	6.47	4.80	3.25	1.79	0.42	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	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32	1531.32
2.5	1511.53	1510.97	1510.44	1509.96	1509.53	1509.07	1508.63	1508.23	1507.88	1507.58
5.0	1490.43	1489.47	1488.59	1487.78	1487.04	1486.26	1485.39	1484.60	1483.88	1483.21
7.5	1465.59	1464.44	1463.45	1462.72	1462.16	1461.58	1460.93	1460.47	1460.05	1459.25
10.0	1441.61	1439.62	1437.78	1436.07	1434.46	1433.56	1433.52	1433.73	1433.86	1434.24
12.5	1417.06	1415.73	1414.43	1412.63	1410.48	1408.86	1407.99	1408.05	1408.89	1409.25
15.0	1392.93	1391.53	1390.57	1389.59	1387.74	1385.41	1382.64	1382.95	1384.03	1385.30
17.5	1368.64	1367.09	1364.41	1361.70	1359.69	1357.17	1354.32	1350.94	1349.90	1350.10
20.0	1335.26	1331.40	1327.67	1324.66	1322.25	1320.78	1319.52	1318.19	1315.97	1313.93
22.5	1296.31	1293.19	1290.40	1287.58	1285.27	1284.36	1284.13	1283.80	1282.89	1281.55
25.0	1257.68	1256.52	1255.00	1252.92	1250.74	1249.80	1250.08	1250.23	1249.52	1248.33
27.5	1222.63	1220.49	1219.91	1218.83	1216.14	1213.30	1213.45	1213.89	1214.21	1213.52
30.0	1187.75	1183.90	1180.56	1178.73	1178.00	1176.29	1173.54	1173.80	1176.35	1177.59
32.5	1147.41	1144.25	1141.60	1138.31	1136.45	1134.09	1128.70	1124.22	1123.85	1123.73
35.0	1105.79	1099.61	1092.49	1085.58	1078.40	1075.35	1070.81	1066.39	1064.81	1064.48
37.5	1049.19	1042.26	1034.15	1028.85	1020.29	1016.33	1012.25	1006.65	1004.60	1002.23
40.0	990.85	983.52	974.58	966.24	960.71	952.88	949.15	945.57	942.05	939.86
42.5	927.03	918.92	911.19	903.49	896.09	893.78	886.66	885.61	882.71	879.54
45.0	861.67	854.33	848.69	844.00	836.91	834.87	828.00	826.91	824.35	820.63
47.5	800.81	796.67	790.07	785.77	776.79	774.63	761.69	755.62	748.29	742.72
50.0	742.76	738.52	721.96	708.43	696.35	685.22	677.00	667.55	661.90	656.19
52.5	661.01	648.13	635.24	620.74	609.63	598.59	591.23	581.83	576.81	570.79
55.0	575.04	557.71	548.76	536.34	525.91	515.94	507.26	498.62	492.44	486.43
57.5	489.20	475.55	465.41	452.93	443.04	432.76	422.93	413.75	407.51	400.46
60.0	405.73	391.58	380.06	367.39	355.80	346.49	337.41	328.12	321.47	314.41

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZX-EX-RX 30W 5000K.IES**

**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	317.08	303.32	291.58	280.79	270.19	269.70	267.66	263.72	262.00	259.26
<b>65.0</b>	235.28	232.09	231.05	229.85	226.06	224.45	222.43	218.52	216.55	213.51
<b>67.5</b>	193.27	189.46	187.70	185.78	181.24	179.12	176.36	172.59	170.30	167.53
<b>70.0</b>	150.69	145.59	142.33	139.59	135.48	132.54	129.51	126.28	123.80	121.49
<b>72.5</b>	106.82	101.05	96.74	93.55	90.04	86.29	83.32	80.48	77.76	75.47
<b>75.0</b>	63.63	58.12	53.31	49.25	45.26	41.21	37.79	34.76	32.02	29.42
<b>77.5</b>	21.11	18.40	17.32	16.55	15.73	15.02	14.38	13.92	13.50	12.93
<b>80.0</b>	8.15	7.02	5.98	5.09	4.23	3.46	2.75	2.14	1.59	1.10
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	<b><u>350.0</u></b>	<b><u>352.5</u></b>	<b><u>355.0</u></b>	<b><u>357.5</u></b>	<b><u>360.0</u></b>
<b>0.0</b>	1531.32	1531.32	1531.32	1531.32	1531.32
<b>2.5</b>	1507.32	1507.11	1506.95	1506.83	1506.77
<b>5.0</b>	1482.80	1482.51	1482.32	1482.22	1482.21
<b>7.5</b>	1458.59	1458.08	1457.74	1457.53	1457.47
<b>10.0</b>	1434.04	1433.58	1433.23	1432.89	1432.72
<b>12.5</b>	1409.31	1408.95	1408.61	1408.29	1408.20
<b>15.0</b>	1385.17	1384.39	1383.88	1383.64	1383.67
<b>17.5</b>	1351.34	1350.84	1349.95	1349.19	1349.14
<b>20.0</b>	1314.61	1315.98	1316.07	1314.68	1314.60
<b>22.5</b>	1281.46	1282.45	1281.56	1280.35	1279.87
<b>25.0</b>	1249.47	1249.89	1247.04	1246.06	1245.14
<b>27.5</b>	1213.79	1215.29	1214.32	1211.87	1211.05
<b>30.0</b>	1178.11	1179.83	1181.21	1178.01	1176.95
<b>32.5</b>	1122.28	1122.19	1121.00	1117.30	1115.81
<b>35.0</b>	1063.02	1062.53	1060.23	1056.03	1054.68
<b>37.5</b>	1001.88	1000.54	999.74	995.87	994.25
<b>40.0</b>	938.81	938.88	938.35	935.90	933.82
<b>42.5</b>	878.82	878.59	877.42	874.58	873.07
<b>45.0</b>	820.39	818.53	816.97	813.08	812.31
<b>47.5</b>	737.32	735.63	732.80	729.26	727.77
<b>50.0</b>	650.86	649.65	647.28	645.26	643.22
<b>52.5</b>	566.53	565.01	562.68	560.26	558.77
<b>55.0</b>	482.12	480.61	478.26	475.17	474.31
<b>57.5</b>	396.30	394.54	393.02	390.53	389.72
<b>60.0</b>	309.90	308.40	307.65	305.83	305.14
<b>62.5</b>	258.11	258.82	259.35	258.57	258.28
<b>65.0</b>	212.79	212.60	212.67	211.67	211.41
<b>67.5</b>	165.97	165.66	165.49	164.63	164.42
<b>70.0</b>	119.18	118.75	118.24	117.60	117.43
<b>72.5</b>	73.16	72.19	71.32	70.66	70.52
<b>75.0</b>	27.27	25.75	24.44	23.72	23.60
<b>77.5</b>	12.50	12.22	11.92	11.79	11.80
<b>80.0</b>	0.70	0.40	0.18	0.04	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZX-EX-RX 30W 5000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	558.05	12.80	12.80
0-30	1193.32	27.30	27.30
0-40	1970.73	45.10	45.10
0-60	3501.61	80.10	80.10
0-80	4337.82	99.30	99.30
0-90	4370.18	100.00	100.00
10-90	4226.15	96.70	96.70
20-40	1412.68	32.30	32.30
20-50	2219.33	50.80	50.80
40-70	2075.37	47.50	47.50
60-80	836.21	19.10	19.10
70-80	291.72	6.70	6.70
80-90	32.36	0.70	0.70
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	4370.18	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	144.03
10-20	414.02
20-30	635.27
30-40	777.42
40-50	806.65
50-60	724.23
60-70	544.50
70-80	291.72
80-90	32.36
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZX-EX-RX 30W 5000K.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

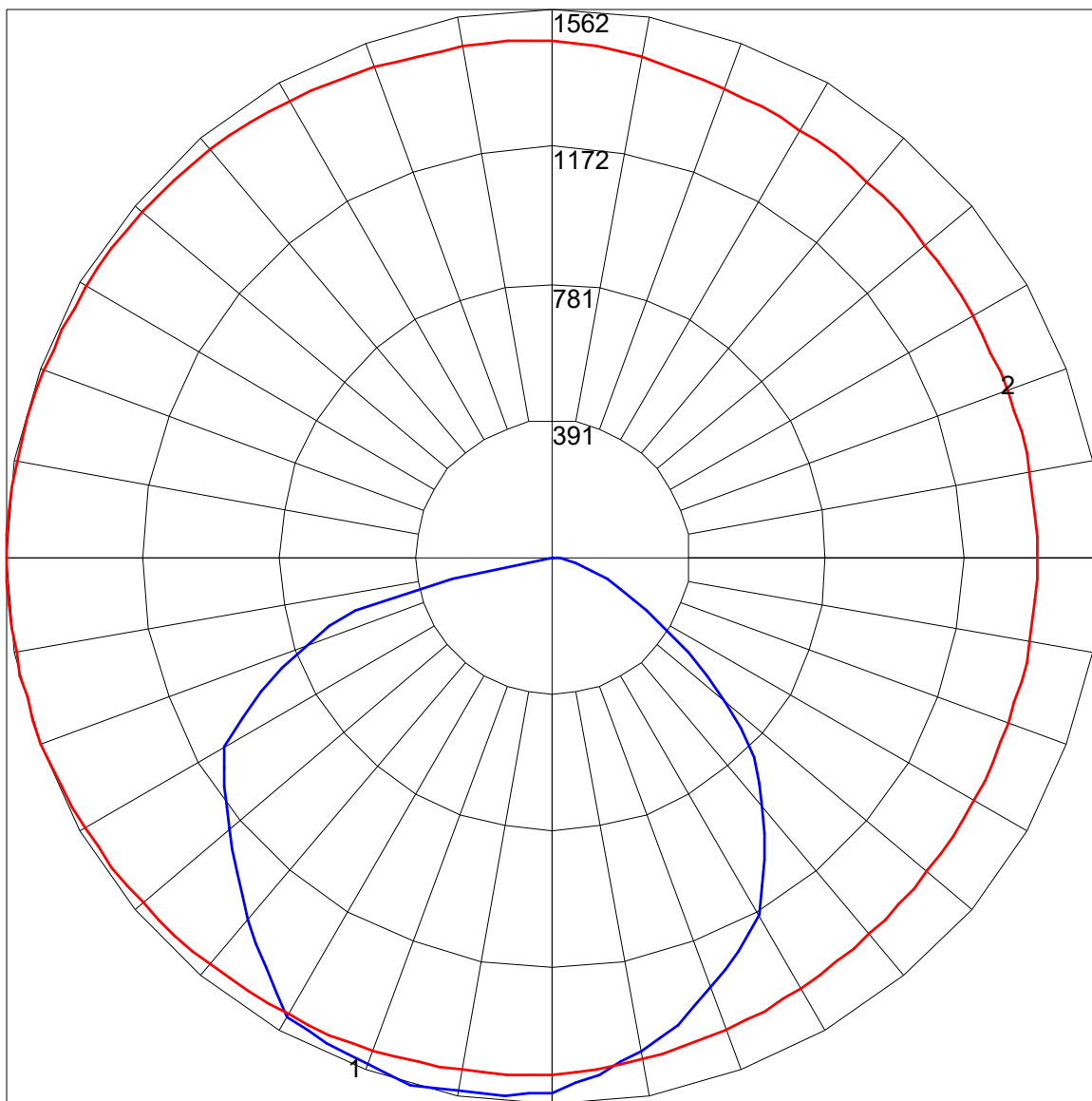
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZX-EX-RX 30W 5000K.IES**

**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	10.0	11.5	10.4	11.8	12.1	5.1	5.1	5.1	5.1	5.1
	3H	10.8	12.1	11.2	12.4	12.8	5.1	5.1	5.1	5.1	5.1
	4H	10.8	12.0	11.2	12.3	12.7	5.1	5.1	5.1	5.1	5.1
	6H	10.7	11.8	11.1	12.2	12.6	5.1	5.1	5.1	5.1	5.1
	8H	10.7	11.7	11.1	12.1	12.5	5.1	5.1	5.1	5.1	5.1
	12H	10.6	11.6	11.1	12.0	12.4	5.1	5.1	5.1	5.1	5.1
4H	2H	10.1	11.3	10.5	11.6	12.0	5.1	5.1	5.1	5.1	5.1
	3H	10.9	11.9	11.3	12.3	12.7	5.1	5.1	5.1	5.1	5.1
	4H	10.9	11.8	11.3	12.2	12.6	5.1	5.1	5.1	5.1	5.1
	6H	10.8	11.6	11.3	12.0	12.5	5.1	5.1	5.1	5.1	5.1
	8H	10.8	11.5	11.2	11.9	12.4	5.1	5.1	5.1	5.1	5.1
	12H	10.7	11.4	11.2	11.8	12.3	5.1	5.1	5.1	5.1	5.1
8H	4H	10.8	11.5	11.3	11.9	12.4	5.1	5.1	5.1	5.1	5.1
	6H	10.7	11.3	11.2	11.8	12.3	5.1	5.1	5.1	5.1	5.1
	8H	10.7	11.2	11.2	11.7	12.2	5.1	5.1	5.1	5.1	5.1
	12H	10.6	11.1	11.1	11.6	12.1	5.1	5.1	5.1	5.1	5.1
12H	4H	10.8	11.4	11.2	11.9	12.3	5.1	5.1	5.1	5.1	5.1
	6H	10.7	11.2	11.2	11.6	12.2	5.1	5.1	5.1	5.1	5.1
	8H	10.6	11.1	11.1	11.6	12.1	5.1	5.1	5.1	5.1	5.1

Maximum UGR = 12.8

POLAR GRAPH



Maximum Candela = 1562.01 Located At Horizontal Angle = 180, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)