

IES Report

ZipTwo® | 707 | Square 3572, Single Side Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-HA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	97	100	102	103
Total Lumens, 4' rail length (1219mm)	3822	3942	4023	4063
Lumens per foot (305mm)	955	986	1006	1016
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	95	95	95	95

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_HA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011204 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-359-HA-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, square 3572,

[MORE] single side diffuse lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4023
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

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

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475
5	1.260	1.380	1.380	1.380	1.515	1.515	1.635	1.635	1.635	1.755
10	1.005	1.005	1.005	1.260	1.260	1.260	1.260	1.260	1.380	1.515
15	1.260	1.125	1.260	1.125	1.260	1.260	1.260	1.260	1.260	1.260
20	1.260	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380	1.380
25	1.755	1.755	1.755	1.755	1.635	1.635	1.635	1.635	1.635	1.635
30	2.010	2.010	2.145	2.145	2.145	1.890	1.890	1.890	1.755	1.635
35	2.520	2.520	2.520	2.385	2.385	2.385	2.265	2.145	2.010	2.010
40	3.015	3.015	2.895	2.895	2.895	2.640	2.640	2.520	2.265	2.265
45	3.270	3.270	3.270	3.270	3.150	3.150	2.895	2.760	2.520	2.520
50	3.780	3.780	3.645	3.645	3.645	3.390	3.390	3.150	3.015	2.760
55	4.020	4.020	4.020	4.020	3.900	3.900	3.645	3.390	3.270	3.015
60	4.530	4.395	4.395	4.395	4.155	4.155	3.900	3.780	3.525	3.270
65	4.785	4.785	4.650	4.650	4.530	4.395	4.155	4.020	3.780	3.525
70	5.025	5.025	4.905	4.905	4.785	4.650	4.395	4.275	4.020	3.780
75	5.280	5.280	5.160	5.160	5.025	4.905	4.650	4.395	4.275	3.900
80	5.535	5.535	5.400	5.400	5.160	5.160	4.905	4.650	4.395	4.020
85	5.790	5.790	5.655	5.535	5.400	5.160	5.025	4.785	4.530	4.275
90	5.790	5.790	5.790	5.655	5.655	5.400	5.160	4.905	4.650	4.275
95	6.030	6.030	6.030	5.910	5.790	5.655	5.400	5.160	4.785	4.530
100	6.285	6.165	6.030	6.030	5.910	5.790	5.535	5.160	4.905	4.530
105	6.285	6.285	6.285	6.285	6.030	5.910	5.655	5.400	5.160	4.785
110	6.540	6.420	6.285	6.285	6.165	6.030	5.790	5.535	5.160	4.905
115	6.540	6.540	6.420	6.285	6.285	6.030	5.790	5.655	5.400	4.905
120	6.540	6.540	6.420	6.285	6.285	6.030	5.910	5.655	5.400	5.025
125	6.540	6.540	6.420	6.285	6.285	6.030	5.790	5.535	5.280	5.025
130	6.285	6.420	6.285	6.285	6.030	6.030	5.790	5.655	5.280	5.025
135	6.285	6.165	6.165	6.030	6.030	5.790	5.535	5.400	5.280	5.160
140	6.030	6.030	5.910	5.910	5.790	5.400	5.535	5.400	5.280	5.160
145	5.790	5.790	5.790	5.655	5.160	5.280	5.535	5.535	5.535	5.400
150	5.535	5.535	5.535	5.025	5.025	5.280	5.400	5.790	5.790	5.655
155	5.280	5.025	4.905	4.650	4.905	5.160	5.790	5.790	5.790	5.655
160	4.785	4.785	4.155	4.395	4.905	5.655	5.790	5.790	5.655	5.910
165	4.785	4.155	4.020	4.530	5.790	6.165	6.420	6.795	6.795	7.035
170	6.030	5.280	5.400	6.540	6.915	7.170	7.290	7.290	7.290	7.290
175	4.530	5.280	6.285	6.795	7.035	7.290	7.290	7.425	7.545	7.425
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475
5	1.755	1.890	2.010	2.265	2.895	4.155	6.540	10.185	14.970	21.255
10	1.515	1.515	1.635	1.635	1.890	1.890	2.385	5.160	14.085	28.665
15	1.380	1.380	1.515	1.635	1.635	1.890	1.890	3.015	13.455	36.345
20	1.380	1.380	1.380	1.515	1.635	1.635	1.890	2.265	12.450	43.890
25	1.380	1.380	1.380	1.380	1.515	1.635	1.890	2.145	12.570	50.805
30	1.635	1.635	1.515	1.380	1.380	1.635	1.755	2.145	11.940	57.585
35	1.755	1.755	1.635	1.515	1.515	1.635	1.755	2.145	9.810	63.495
40	2.010	1.890	1.755	1.635	1.515	1.380	1.635	2.010	9.060	70.665
45	2.265	2.010	2.010	1.755	1.635	1.515	1.635	2.010	8.295	75.690
50	2.520	2.265	2.010	1.755	1.755	1.515	1.515	1.890	7.425	80.100
55	2.760	2.520	2.265	2.010	1.755	1.515	1.515	1.755	6.915	83.490
60	3.015	2.640	2.385	2.145	1.890	1.755	1.515	1.635	6.165	94.800

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CANDELA TABULATION - (Cont.)

65	3.270	2.895	2.520	2.265	2.010	1.755	1.515	1.515	7.665	103.980
70	3.270	3.015	2.640	2.385	2.010	1.755	1.515	1.380	7.035	103.110
75	3.525	3.150	2.760	2.385	2.145	1.890	1.515	1.380	6.285	103.980
80	3.780	3.270	2.895	2.520	2.145	1.890	1.635	1.380	5.655	103.980
85	3.780	3.390	3.015	2.640	2.265	1.890	1.755	1.515	4.650	102.720
90	3.900	3.525	3.150	2.640	2.385	2.010	1.755	1.515	3.780	104.235
95	4.020	3.645	3.150	2.760	2.385	2.145	1.755	1.515	3.525	102.225
100	4.155	3.780	3.390	2.895	2.520	2.145	1.890	1.515	3.270	99.585
105	4.275	3.900	3.525	3.150	2.640	2.265	2.010	1.755	4.275	96.060
110	4.530	4.020	3.645	3.150	2.760	2.520	2.145	1.890	4.020	70.545
115	4.650	4.155	3.780	3.390	3.015	2.640	2.385	2.385	4.020	62.865
120	4.650	4.275	3.900	3.525	3.150	2.760	2.520	2.895	4.020	53.940
125	4.650	4.395	4.020	3.645	3.270	3.015	2.760	3.150	4.155	44.760
130	4.650	4.395	4.155	3.900	3.390	3.270	3.270	3.525	4.275	35.835
135	4.905	4.650	4.395	3.900	3.645	3.645	3.780	3.780	4.395	29.805
140	5.025	4.785	4.395	4.155	4.020	4.155	4.020	4.155	4.530	25.530
145	5.280	5.025	4.785	4.395	4.650	4.785	4.395	4.395	4.785	20.625
150	5.400	5.280	5.025	5.280	5.400	5.280	4.905	4.905	5.535	18.225
155	5.400	5.400	5.790	6.030	5.790	5.535	5.400	5.535	5.910	16.470
160	6.285	6.420	6.540	6.285	6.030	5.910	5.910	6.030	6.165	13.710
165	6.915	6.915	6.660	6.420	6.285	6.285	6.285	6.420	6.420	11.070
170	7.170	6.915	6.795	6.795	6.915	6.915	6.915	7.035	6.915	9.300
175	7.425	7.290	7.425	7.425	7.545	7.545	7.545	7.545	7.545	8.295
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475	17.475
5	27.660	34.575	41.370	47.910	54.450	60.360	66.135	71.550	76.575	80.970
10	43.755	59.475	75.060	90.030	105.375	119.325	132.645	145.605	157.545	168.480
15	60.105	84.750	109.515	133.155	157.920	180.555	202.305	223.680	243.555	261.150
20	75.690	109.515	143.460	176.415	211.230	243.045	273.975	304.155	332.445	357.840
25	90.780	133.155	176.415	218.775	263.295	304.785	345.150	386.010	422.100	455.790
30	110.520	156.420	208.845	260.400	315.480	366.645	416.565	467.610	504.585	552.735
35	123.600	179.805	239.535	300.000	365.265	425.865	485.340	542.685	596.865	648.795
40	132.780	200.295	267.825	337.230	411.915	481.950	548.460	616.995	679.860	740.205
45	143.970	218.655	293.850	373.815	452.400	515.775	605.790	685.260	756.435	824.325
50	154.035	232.620	319.875	404.370	490.755	574.245	659.235	746.745	824.205	899.640
55	162.195	245.940	336.720	430.395	514.005	616.110	710.040	798.300	882.540	963.390
60	168.870	257.130	352.935	448.875	542.295	648.165	744.615	840.675	929.565	1017.840
65	171.135	265.560	365.145	465.345	571.470	672.810	772.770	872.985	968.040	1053.795
70	174.900	271.710	374.445	477.420	586.440	690.795	793.020	898.890	992.565	1080.450
75	176.790	278.505	380.100	484.845	595.620	701.235	804.840	908.700	1003.875	1094.655
80	180.180	280.020	382.365	488.115	596.235	705.510	809.235	912.840	1007.655	1098.060
85	179.295	279.390	381.735	490.620	594.990	700.350	806.595	909.330	1002.870	1092.015
90	177.795	276.870	381.615	486.090	589.200	693.060	794.520	898.380	989.925	1077.555
95	174.780	269.325	372.300	477.675	578.895	680.730	782.835	880.785	970.425	1055.175
100	170.625	262.920	363.375	463.335	567.825	666.405	762.720	857.520	944.025	1026.390
105	165.345	255.240	352.065	448.875	533.505	644.775	737.445	828.855	914.610	991.185
110	155.790	245.685	338.865	431.655	521.310	619.245	707.895	797.415	876.510	949.680
115	146.355	234.870	323.520	411.405	504.960	589.455	673.440	756.045	833.130	902.280
120	135.045	222.300	305.295	388.395	476.670	555.750	634.590	712.290	782.460	849.090
125	120.210	198.165	275.370	354.570	436.560	512.880	591.840	664.020	729.525	791.130
130	114.795	171.000	245.190	315.855	387.390	458.430	530.610	604.920	671.175	728.895
135	83.490	143.085	211.860	275.490	338.730	401.595	466.110	528.720	591.465	655.590

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CANDELA TABULATION - (Cont.)

140	66.645	131.400	175.905	234.240	295.110	348.165	402.225	457.425	508.725	563.670
145	53.310	99.960	147.105	193.125	249.090	303.525	345.270	387.135	431.025	470.880
150	43.890	80.970	122.970	161.445	202.440	249.585	295.350	330.180	359.100	390.915
155	36.840	65.880	98.580	132.270	166.980	195.765	231.600	271.590	297.495	318.735
160	30.045	52.560	76.695	101.595	127.755	153.525	177.795	201.435	226.710	244.935
165	22.890	38.595	56.460	73.560	93.165	110.265	126.870	142.965	158.550	176.535
170	15.975	25.905	36.840	48.405	59.730	69.660	80.100	90.780	99.075	106.380
175	10.185	13.830	18.855	24.015	29.670	35.205	39.855	44.265	47.910	51.180
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	17.475	17.475	17.475	17.475	17.475	17.475	17.475
5	84.870	88.260	91.035	93.300	94.935	95.805	96.060
10	178.050	186.090	192.885	198.405	202.305	204.570	205.200
15	277.380	290.955	302.520	311.820	318.240	322.140	323.640
20	381.360	401.220	418.080	431.400	440.835	446.745	448.875
25	486.855	511.740	533.505	551.475	564.300	572.220	575.115
30	590.835	625.035	653.580	675.705	691.800	702.240	705.375
35	696.075	736.065	770.385	796.920	816.660	829.230	833.130
40	794.655	841.050	881.910	914.475	937.365	951.450	956.355
45	886.320	939.000	985.395	1022.115	1047.630	1063.470	1069.260
50	968.175	1026.255	1077.180	1117.800	1146.330	1163.940	1170.105
55	1036.695	1099.815	1153.380	1198.650	1229.700	1249.065	1254.840
60	1092.645	1159.035	1215.360	1261.890	1294.335	1315.320	1321.740
65	1132.125	1203.300	1261.380	1308.660	1342.740	1364.490	1371.285
70	1160.175	1230.450	1292.820	1339.725	1373.790	1395.795	1402.710
75	1177.020	1247.055	1307.775	1354.560	1388.760	1410.630	1417.050
80	1180.035	1249.560	1309.290	1355.685	1390.395	1411.140	1417.800
85	1172.745	1241.265	1299.855	1346.505	1379.325	1399.695	1406.730
90	1156.515	1223.280	1281.120	1326.390	1358.205	1377.810	1384.350
95	1131.870	1196.880	1251.585	1297.095	1328.280	1347.510	1353.675
100	1100.310	1162.935	1215.615	1258.875	1289.550	1308.285	1314.195
105	1061.970	1122.075	1172.865	1214.355	1243.410	1262.145	1267.920
110	1015.695	1073.040	1123.950	1162.050	1190.340	1208.070	1213.350
115	966.405	1020.225	1067.130	1103.340	1129.740	1146.330	1151.745
120	909.195	960.000	1003.755	1037.070	1062.600	1077.555	1082.340
125	846.960	893.865	934.590	966.540	989.295	1003.245	1007.895
130	779.445	822.435	859.530	888.960	909.450	922.155	926.670
135	707.640	746.370	779.565	806.100	824.835	836.145	839.670
140	621.135	666.270	695.445	718.965	736.185	746.250	749.895
145	521.685	569.205	608.445	629.310	643.515	652.950	655.845
150	427.005	465.720	505.455	536.520	548.970	556.635	559.530
155	337.860	365.385	398.085	435.795	453.660	460.440	462.465
160	260.145	272.340	294.480	319.875	353.445	360.105	361.875
165	187.350	194.265	197.910	211.485	231.855	255.000	256.245
170	113.925	118.575	119.580	119.580	129.135	152.520	163.200
175	53.445	54.570	54.945	51.930	48.405	49.170	66.885
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	34.49	N.A.	0.90
0-30	117.59	N.A.	2.90
0-40	276.41	N.A.	6.90
0-60	856.46	N.A.	21.30
0-80	1704.75	N.A.	42.40
0-90	2163.25	N.A.	53.80
10-90	2158.98	N.A.	53.70
20-40	241.92	N.A.	6.00
20-50	488.82	N.A.	12.20
40-70	982.80	N.A.	24.40
60-80	848.29	N.A.	21.10
70-80	445.55	N.A.	11.10
80-90	458.50	N.A.	11.40
90-110	847.27	N.A.	21.10
90-120	1192.42	N.A.	29.60
90-130	1464.96	N.A.	36.40
90-150	1776.19	N.A.	44.20
90-180	1859.55	N.A.	46.20
110-180	1012.28	N.A.	25.20
0-180	4022.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.27
10-20	30.22
20-30	83.10
30-40	158.82
40-50	246.90
50-60	333.15
60-70	402.74
70-80	445.55
80-90	458.50
90-100	443.42
100-110	403.85
110-120	345.15
120-130	272.54
130-140	192.70
140-150	118.53
150-160	59.97
160-170	20.73
170-180	2.65

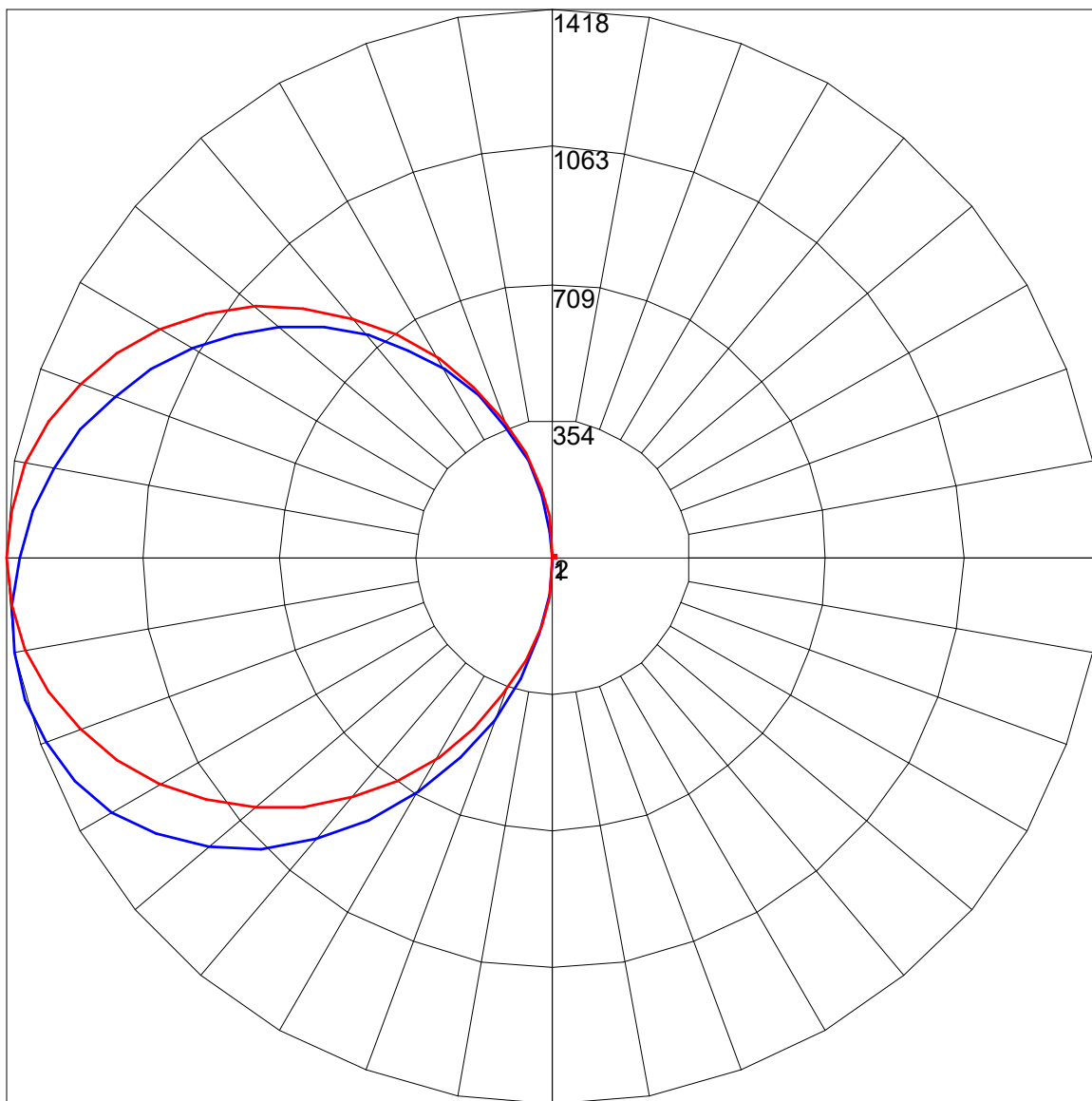
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	93	86	80	74	85	79	73	68	66	62	58	54	51	48	43	41	39	33
2	82	72	63	56	75	66	58	51	54	48	43	44	39	35	35	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	25	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	25	20	17	13
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	24	50	37	29	22	31	24	18	25	19	15	19	15	11	8
7	51	36	27	21	46	33	25	19	27	21	16	22	17	12	17	13	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	29	21	15	39	27	19	14	22	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 1417.8 Located At Horizontal Angle = 180, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)