

IES Report

ZipTwo® | 707 | Square 3554, Single Side Diffuse | 90 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	94	96	97
Total Lumens, 4' rail length (1219mm)	3572	3684	3760	3797
Lumens per foot (305mm)	893	921	940	949
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_JA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011209 (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-JA-WH

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

[MORE] square 3554, 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	3760
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565
5	1.755	1.755	1.890	1.890	1.890	2.145	2.145	2.145	2.145	2.265
10	0.750	0.885	1.005	1.005	1.005	1.125	1.260	1.260	1.380	1.515
15	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005
20	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260
25	1.515	1.515	1.635	1.635	1.515	1.515	1.515	1.380	1.380	1.380
30	2.010	2.010	1.890	1.890	1.890	1.890	1.755	1.635	1.635	1.635
35	2.265	2.385	2.385	2.265	2.265	2.145	2.145	2.010	1.890	1.755
40	2.760	2.760	2.760	2.640	2.640	2.640	2.385	2.265	2.145	2.010
45	3.270	3.150	3.150	3.150	3.015	2.895	2.760	2.640	2.520	2.265
50	3.525	3.525	3.525	3.390	3.390	3.150	3.150	2.895	2.760	2.520
55	3.780	3.900	3.900	3.780	3.645	3.645	3.390	3.270	3.015	2.760
60	4.275	4.275	4.155	4.155	4.020	3.900	3.645	3.525	3.270	3.015
65	4.530	4.530	4.395	4.395	4.275	4.155	3.900	3.780	3.525	3.270
70	4.785	4.785	4.785	4.650	4.530	4.395	4.155	4.020	3.780	3.525
75	5.025	5.025	5.025	4.905	4.785	4.650	4.395	4.155	3.900	3.645
80	5.280	5.280	5.280	5.160	5.025	4.905	4.650	4.395	4.155	3.780
85	5.535	5.535	5.400	5.400	5.160	5.160	4.905	4.650	4.275	4.020
90	5.535	5.535	5.535	5.400	5.400	5.160	4.905	4.650	4.395	4.020
95	5.535	5.535	5.535	5.400	5.400	5.160	4.905	4.785	4.395	4.020
100	5.790	5.790	5.655	5.535	5.535	5.280	5.160	4.905	4.530	4.275
105	5.790	5.790	5.790	5.790	5.535	5.400	5.280	4.905	4.650	4.395
110	6.030	6.030	5.790	5.790	5.790	5.535	5.400	5.160	4.905	4.530
115	6.030	6.030	5.910	5.790	5.790	5.535	5.400	5.160	4.905	4.650
120	6.030	6.030	5.790	5.790	5.790	5.535	5.400	5.280	5.025	4.530
125	6.030	5.910	5.790	5.790	5.655	5.535	5.280	5.160	4.905	4.650
130	6.030	5.790	5.790	5.535	5.535	5.400	5.160	5.160	4.785	4.650
135	5.790	5.535	5.535	5.535	5.400	5.280	5.025	4.905	4.785	4.650
140	5.790	5.400	5.280	5.280	5.160	4.905	5.025	4.905	4.905	4.905
145	5.535	5.280	5.025	5.025	4.785	4.905	5.025	5.025	5.160	5.025
150	5.280	5.025	4.785	4.650	4.650	4.905	5.160	5.280	5.280	5.025
155	5.025	4.785	4.650	4.275	4.650	4.905	5.280	5.280	5.160	5.025
160	4.530	4.530	3.900	4.155	4.530	5.160	5.025	5.025	4.905	4.905
165	4.275	3.780	3.525	4.020	4.905	4.785	4.785	4.785	5.025	5.160
170	4.530	3.780	4.020	5.025	5.280	5.655	6.030	6.540	7.170	7.920
175	7.545	8.430	9.300	10.185	10.185	10.560	10.695	10.815	10.935	10.935
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	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565
5	2.385	2.520	3.270	5.160	7.170	10.185	14.835	20.370	26.025	32.565
10	1.635	1.755	2.010	2.145	2.265	2.520	5.910	13.455	25.530	39.735
15	1.125	1.260	1.515	1.755	2.010	2.265	2.520	7.665	24.645	46.530
20	1.260	1.260	1.125	1.260	1.515	1.755	2.265	3.780	23.760	53.055
25	1.380	1.380	1.260	1.125	1.260	1.515	2.010	2.265	22.515	59.220
30	1.515	1.380	1.380	1.380	1.125	1.380	1.755	2.265	21.255	64.875
35	1.635	1.635	1.515	1.380	1.380	1.125	1.515	2.010	21.255	68.400
40	1.890	1.755	1.635	1.515	1.380	1.380	1.380	1.890	19.620	72.675
45	2.010	2.010	1.755	1.515	1.515	1.380	1.125	1.755	18.105	76.065
50	2.265	2.010	2.010	1.755	1.515	1.380	1.260	1.515	14.580	81.225
55	2.520	2.265	2.010	1.755	1.635	1.515	1.380	1.380	12.570	83.610
60	2.760	2.520	2.265	2.010	1.755	1.515	1.380	1.380	10.695	85.245

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CANDELA TABULATION - (Cont.)

65	3.015	2.640	2.385	2.010	1.755	1.515	1.380	1.260	8.670	94.800
70	3.270	2.760	2.520	2.145	2.010	1.755	1.515	1.260	6.795	95.430
75	3.270	3.015	2.640	2.265	2.010	1.755	1.515	1.260	4.905	92.790
80	3.525	3.150	2.760	2.385	2.010	1.755	1.515	1.260	5.400	92.040
85	3.645	3.270	2.895	2.385	2.145	1.755	1.515	1.380	4.275	90.660
90	3.780	3.390	2.895	2.520	2.145	1.890	1.515	1.380	3.015	100.215
95	3.780	3.390	2.895	2.640	2.145	1.890	1.755	1.515	2.145	88.260
100	3.900	3.525	3.150	2.640	2.385	2.010	1.755	1.515	2.010	76.200
105	4.020	3.645	3.270	2.760	2.385	2.145	1.755	1.635	2.265	71.550
110	4.155	3.780	3.270	3.015	2.520	2.265	1.890	1.755	2.520	63.240
115	4.275	3.900	3.390	3.150	2.640	2.385	2.265	2.010	3.015	51.180
120	4.275	4.020	3.525	3.270	2.895	2.640	2.520	2.520	3.525	37.350
125	4.275	4.020	3.780	3.270	3.150	2.895	2.640	3.015	4.020	29.805
130	4.395	4.155	3.780	3.525	3.270	3.150	2.760	3.780	4.395	24.390
135	4.395	4.275	4.020	3.780	3.525	3.270	3.150	4.275	4.650	21.375
140	4.650	4.530	4.275	4.020	3.645	3.270	3.780	4.785	4.905	17.985
145	4.905	4.650	4.275	4.020	3.645	3.390	4.275	5.025	5.280	14.970
150	5.025	4.785	4.530	4.155	4.155	4.395	5.280	5.655	5.910	14.085
155	4.905	4.650	4.530	4.530	5.025	5.655	6.165	6.285	6.540	13.455
160	4.785	4.905	5.025	5.790	6.795	7.170	7.035	7.290	7.545	11.820
165	5.535	6.285	7.170	8.295	9.060	8.805	8.805	8.925	9.060	11.310
170	8.670	9.555	10.305	10.065	10.065	10.185	10.305	10.305	10.440	11.445
175	10.815	10.815	10.935	10.935	10.935	11.190	11.190	11.190	11.310	11.565
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	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565	26.565
5	38.475	44.385	50.415	56.325	61.860	67.020	72.180	76.950	81.225	85.125
10	53.190	66.645	80.850	93.930	106.755	119.070	131.145	142.455	152.520	162.075
15	67.650	88.770	111.150	132.270	152.775	172.755	191.880	211.365	228.090	244.305
20	81.735	111.525	141.585	170.505	199.545	227.715	255.750	282.525	306.930	330.060
25	95.055	132.270	169.620	208.350	245.685	283.410	319.995	354.195	386.640	417.195
30	107.625	151.515	198.165	244.050	292.965	338.610	382.860	426.870	467.235	501.315
35	123.855	170.745	225.450	279.510	337.725	391.800	445.110	498.045	545.700	590.955
40	130.005	188.610	250.965	313.080	380.220	442.845	500.550	565.695	621.885	674.580
45	137.550	206.580	274.110	344.010	418.950	489.870	557.265	626.790	690.675	752.400
50	148.125	221.175	294.975	371.805	454.530	515.010	606.810	683.760	754.410	822.060
55	154.905	233.370	312.960	395.685	482.700	564.555	650.055	733.170	809.370	883.290
60	160.440	243.420	330.690	418.830	505.455	595.365	686.400	774.285	855.510	934.095
65	164.970	248.955	340.110	435.045	513.765	619.755	714.930	806.730	891.465	973.455
70	167.730	254.370	348.915	443.970	525.330	640.875	738.705	830.355	917.625	1001.745
75	169.365	258.015	354.570	451.890	545.940	652.950	749.385	845.445	936.615	1019.220
80	166.980	259.395	357.210	455.790	559.530	658.350	755.805	855.135	943.650	1026.000
85	165.975	259.020	356.970	455.925	559.395	658.350	755.040	851.115	942.015	1023.870
90	166.470	259.140	353.955	452.025	546.450	652.950	748.755	843.690	930.570	1014.315
95	162.705	254.490	348.165	444.975	527.205	639.750	737.190	830.115	915.360	997.215
100	157.920	247.575	338.610	436.185	519.420	623.145	715.320	808.485	891.840	971.310
105	152.145	236.505	330.810	422.355	511.740	603.660	695.325	783.210	863.175	940.125
110	145.605	227.205	315.090	402.990	494.640	582.660	667.905	752.400	829.110	902.790
115	137.055	216.135	299.760	383.745	473.520	554.625	635.715	716.070	789.000	860.535
120	120.705	202.815	282.405	361.875	446.490	517.275	599.130	677.220	745.620	808.860
125	112.035	178.800	254.235	328.050	409.140	486.225	558.390	630.945	694.815	753.915
130	81.345	152.265	224.310	289.815	360.990	429.390	494.775	569.580	636.105	692.925
135	61.605	133.410	190.740	254.235	316.350	375.330	434.925	488.730	556.635	620.640

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CANDELA TABULATION - (Cont.)

140	49.665	102.225	154.905	217.020	273.480	325.035	375.330	427.635	474.150	529.725
145	40.740	76.065	127.365	173.520	226.575	283.155	323.265	362.505	403.485	446.490
150	36.090	62.115	96.435	143.970	178.665	226.200	275.610	310.065	337.095	366.270
155	30.045	52.440	76.320	104.985	142.590	173.265	208.095	248.580	276.240	299.385
160	23.895	42.255	60.735	80.100	99.585	125.355	152.145	176.280	201.300	221.295
165	18.480	30.300	45.645	59.730	74.055	87.135	99.960	114.540	129.000	147.735
170	14.715	20.370	28.410	38.475	47.910	56.715	64.500	72.420	79.845	85.125
175	12.330	13.575	15.975	18.990	22.260	26.400	30.555	34.710	37.980	40.860
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

	150	155	160	165	170	175	180
0	26.565	26.565	26.565	26.565	26.565	26.565	26.565
5	88.515	91.665	94.170	96.195	97.440	98.205	98.325
10	170.745	177.915	184.080	188.850	192.255	194.130	194.640
15	258.510	270.585	281.025	289.200	294.600	297.990	299.250
20	350.805	368.280	383.490	395.565	403.740	408.645	410.400
25	444.855	468.120	488.490	501.435	513.885	520.290	522.555
30	538.650	568.200	593.220	613.335	627.555	636.735	640.005
35	631.695	668.670	698.595	723.615	741.210	752.535	755.925
40	722.235	764.355	801.450	829.605	850.350	863.940	867.825
45	807.735	855.390	897.255	929.310	953.205	968.415	972.450
50	883.920	936.855	983.385	1019.220	1045.875	1062.225	1067.250
55	950.190	1008.150	1057.815	1097.805	1126.095	1143.570	1149.480
60	1005.390	1065.990	1119.555	1161.555	1191.105	1209.585	1216.125
65	1047.630	1110.885	1164.825	1210.215	1241.400	1260.885	1266.915
70	1077.555	1142.820	1197.885	1242.900	1275.975	1295.085	1301.625
75	1096.035	1161.300	1216.995	1262.520	1293.945	1314.570	1320.480
80	1100.565	1166.205	1224.915	1268.805	1300.365	1320.480	1326.765
85	1097.805	1164.450	1220.895	1264.155	1294.950	1315.455	1321.740
90	1089.000	1152.630	1208.070	1250.190	1281.255	1300.620	1306.650
95	1070.145	1132.500	1186.575	1229.325	1259.370	1278.105	1284.015
100	1042.350	1102.830	1155.765	1196.880	1226.310	1244.160	1250.820
105	1009.155	1067.370	1118.550	1158.660	1186.575	1204.050	1210.080
110	968.925	1024.995	1072.275	1111.890	1139.040	1155.765	1161.300
115	921.525	974.955	1020.225	1056.435	1082.715	1099.065	1104.210
120	866.190	918.120	960.240	994.950	1019.475	1034.550	1039.590
125	806.730	854.880	895.110	925.920	948.555	963.135	967.665
130	743.355	785.355	822.195	850.725	871.230	884.805	889.200
135	673.185	711.420	744.735	770.010	788.865	800.430	803.955
140	585.810	633.075	662.505	685.770	701.985	712.290	715.440
145	488.355	535.380	577.125	597.240	611.460	620.250	623.400
150	400.590	435.180	475.665	505.965	518.280	525.825	528.345
155	317.235	342.885	370.545	407.895	427.875	434.040	436.050
160	236.895	247.830	268.440	293.220	327.675	334.830	336.720
165	160.695	168.870	172.005	185.460	203.070	226.575	227.580
170	90.150	93.930	93.300	91.035	98.325	116.685	130.260
175	42.870	44.130	44.760	42.495	38.730	39.225	54.315
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	33.33	N.A.	0.90
0-30	110.20	N.A.	2.90
0-40	255.84	N.A.	6.80
0-60	788.61	N.A.	21.00
0-80	1575.72	N.A.	41.90
0-90	2005.57	N.A.	53.30
10-90	2001.00	N.A.	53.20
20-40	222.50	N.A.	5.90
20-50	448.86	N.A.	11.90
40-70	905.13	N.A.	24.10
60-80	787.11	N.A.	20.90
70-80	414.76	N.A.	11.00
80-90	429.85	N.A.	11.40
90-110	800.27	N.A.	21.30
90-120	1127.99	N.A.	30.00
90-130	1386.45	N.A.	36.90
90-150	1678.77	N.A.	44.70
90-180	1753.99	N.A.	46.70
110-180	953.72	N.A.	25.40
0-180	3759.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.57
10-20	28.76
20-30	76.87
30-40	145.64
40-50	226.36
50-60	306.42
60-70	372.35
70-80	414.76
80-90	429.85
90-100	417.90
100-110	382.36
110-120	327.72
120-130	258.46
130-140	181.59
140-150	110.73
150-160	55.00
160-170	17.94
170-180	2.28

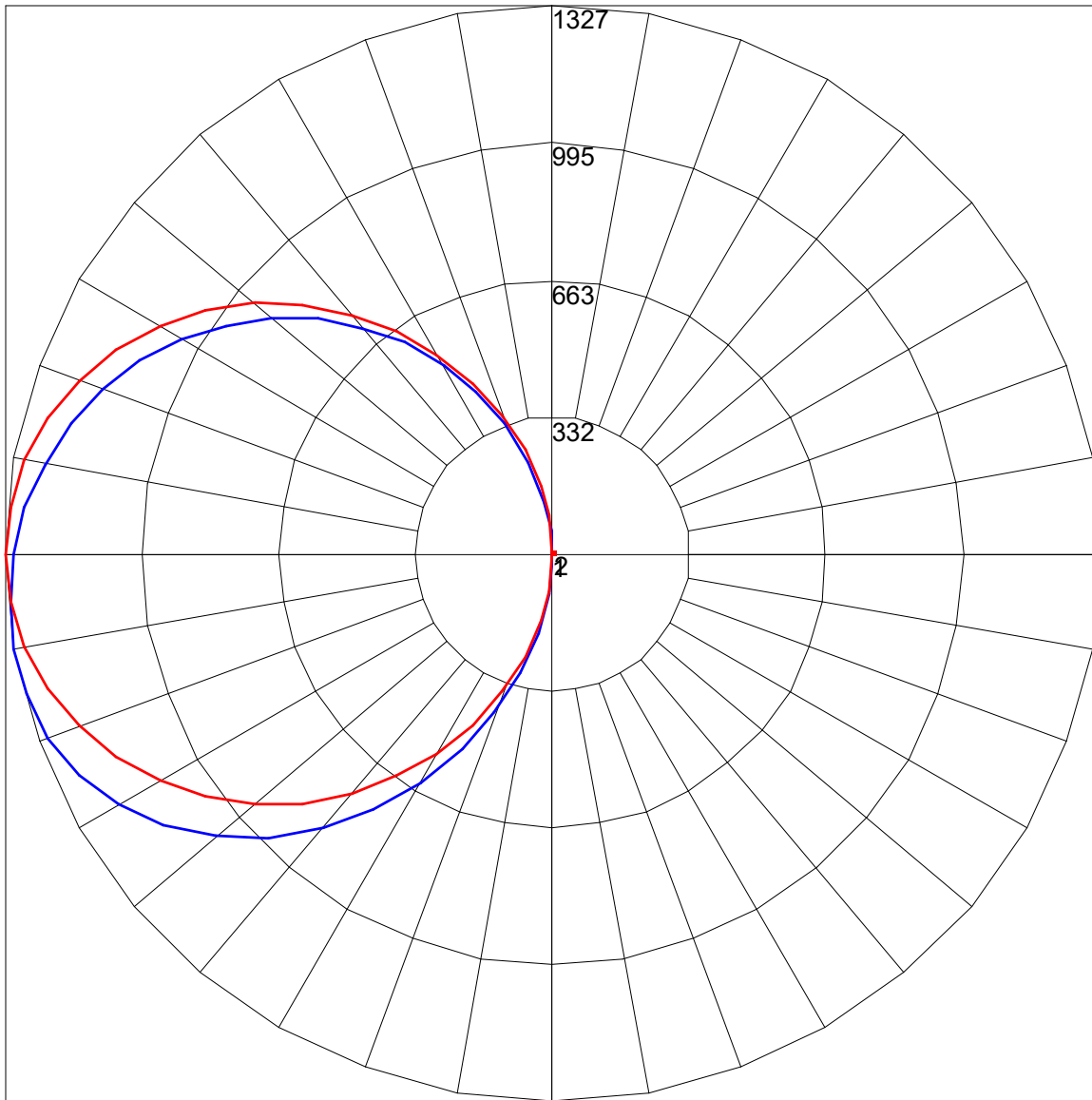
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	59	59	59	53
1	93	86	80	74	85	79	73	68	66	62	58	54	51	48	43	40	38	33
2	82	71	63	56	75	66	58	51	54	48	43	44	39	35	34	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	24	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	24	20	16	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	14	11	8
7	51	36	27	21	46	33	25	19	27	21	16	22	16	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	30	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 = 1326.765 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.)