

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	83	85	86
Total Lumens, 4' rail length (1219mm)	1191	1228	1253	1266
Lumens per foot (305mm)	298	307	313	316
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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_LO_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-LO-359-JA-WH

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

[MORE] square 3554, single side diffuse lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1253
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	14.89
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	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1	1	7
55	2	1	6
65	3	2	6
75	6	4	5
85	18	13	14

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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	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855
5	0.585	0.585	0.630	0.630	0.630	0.715	0.715	0.715	0.715	0.755
10	0.250	0.295	0.335	0.335	0.335	0.375	0.420	0.420	0.460	0.505
15	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335
20	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420
25	0.505	0.505	0.545	0.545	0.505	0.505	0.505	0.460	0.460	0.460
30	0.670	0.670	0.630	0.630	0.630	0.630	0.585	0.545	0.545	0.545
35	0.755	0.795	0.795	0.755	0.755	0.715	0.715	0.670	0.630	0.585
40	0.920	0.920	0.920	0.880	0.880	0.880	0.795	0.755	0.715	0.670
45	1.090	1.050	1.050	1.050	1.005	0.965	0.920	0.880	0.840	0.755
50	1.175	1.175	1.175	1.130	1.130	1.050	1.050	0.965	0.920	0.840
55	1.260	1.300	1.300	1.260	1.215	1.215	1.130	1.090	1.005	0.920
60	1.425	1.425	1.385	1.385	1.340	1.300	1.215	1.175	1.090	1.005
65	1.510	1.510	1.465	1.465	1.425	1.385	1.300	1.260	1.175	1.090
70	1.595	1.595	1.595	1.550	1.510	1.465	1.385	1.340	1.260	1.175
75	1.675	1.675	1.675	1.635	1.595	1.550	1.465	1.385	1.300	1.215
80	1.760	1.760	1.760	1.720	1.675	1.635	1.550	1.465	1.385	1.260
85	1.845	1.845	1.800	1.800	1.720	1.720	1.635	1.550	1.425	1.340
90	1.845	1.845	1.845	1.800	1.800	1.720	1.635	1.550	1.465	1.340
95	1.845	1.845	1.845	1.800	1.800	1.720	1.635	1.595	1.465	1.340
100	1.930	1.930	1.885	1.845	1.845	1.760	1.720	1.635	1.510	1.425
105	1.930	1.930	1.930	1.930	1.845	1.800	1.760	1.635	1.550	1.465
110	2.010	2.010	1.930	1.930	1.930	1.845	1.800	1.720	1.635	1.510
115	2.010	2.010	1.970	1.930	1.930	1.845	1.800	1.720	1.635	1.550
120	2.010	2.010	1.930	1.930	1.930	1.845	1.800	1.760	1.675	1.510
125	2.010	1.970	1.930	1.930	1.885	1.845	1.760	1.720	1.635	1.550
130	2.010	1.930	1.930	1.845	1.845	1.800	1.720	1.720	1.595	1.550
135	1.930	1.845	1.845	1.845	1.800	1.760	1.675	1.635	1.595	1.550
140	1.930	1.800	1.760	1.760	1.720	1.635	1.675	1.635	1.635	1.635
145	1.845	1.760	1.675	1.675	1.595	1.635	1.675	1.675	1.720	1.675
150	1.760	1.675	1.595	1.550	1.550	1.635	1.720	1.760	1.760	1.675
155	1.675	1.595	1.550	1.425	1.550	1.635	1.760	1.760	1.720	1.675
160	1.510	1.510	1.300	1.385	1.510	1.720	1.675	1.675	1.635	1.635
165	1.425	1.260	1.175	1.340	1.635	1.595	1.595	1.595	1.675	1.720
170	1.510	1.260	1.340	1.675	1.760	1.885	2.010	2.180	2.390	2.640
175	2.515	2.810	3.100	3.395	3.395	3.520	3.565	3.605	3.645	3.645
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	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855
5	0.795	0.840	1.090	1.720	2.390	3.395	4.945	6.790	8.675	10.855
10	0.545	0.585	0.670	0.715	0.755	0.840	1.970	4.485	8.510	13.245
15	0.375	0.420	0.505	0.585	0.670	0.755	0.840	2.555	8.215	15.510
20	0.420	0.420	0.375	0.420	0.505	0.585	0.755	1.260	7.920	17.685
25	0.460	0.460	0.420	0.375	0.420	0.505	0.670	0.755	7.505	19.740
30	0.505	0.460	0.460	0.460	0.375	0.460	0.585	0.755	7.085	21.625
35	0.545	0.545	0.505	0.460	0.460	0.375	0.505	0.670	7.085	22.800
40	0.630	0.585	0.545	0.505	0.460	0.460	0.460	0.630	6.540	24.225
45	0.670	0.670	0.585	0.505	0.505	0.460	0.375	0.585	6.035	25.355
50	0.755	0.670	0.670	0.585	0.505	0.460	0.420	0.505	4.860	27.075
55	0.840	0.755	0.670	0.585	0.545	0.505	0.460	0.460	4.190	27.870
60	0.920	0.840	0.755	0.670	0.585	0.505	0.460	0.460	3.565	28.415

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CANDELA TABULATION - (Cont.)

65	1.005	0.880	0.795	0.670	0.585	0.505	0.460	0.420	2.890	31.600
70	1.090	0.920	0.840	0.715	0.670	0.585	0.505	0.420	2.265	31.810
75	1.090	1.005	0.880	0.755	0.670	0.585	0.505	0.420	1.635	30.930
80	1.175	1.050	0.920	0.795	0.670	0.585	0.505	0.420	1.800	30.680
85	1.215	1.090	0.965	0.795	0.715	0.585	0.505	0.460	1.425	30.220
90	1.260	1.130	0.965	0.840	0.715	0.630	0.505	0.460	1.005	33.405
95	1.260	1.130	0.965	0.880	0.715	0.630	0.585	0.505	0.715	29.420
100	1.300	1.175	1.050	0.880	0.795	0.670	0.585	0.505	0.670	25.400
105	1.340	1.215	1.090	0.920	0.795	0.715	0.585	0.545	0.755	23.850
110	1.385	1.260	1.090	1.005	0.840	0.755	0.630	0.585	0.840	21.080
115	1.425	1.300	1.130	1.050	0.880	0.795	0.755	0.670	1.005	17.060
120	1.425	1.340	1.175	1.090	0.965	0.880	0.840	0.840	1.175	12.450
125	1.425	1.340	1.260	1.090	1.050	0.965	0.880	1.005	1.340	9.935
130	1.465	1.385	1.260	1.175	1.090	1.050	0.920	1.260	1.465	8.130
135	1.465	1.425	1.340	1.260	1.175	1.090	1.050	1.425	1.550	7.125
140	1.550	1.510	1.425	1.340	1.215	1.090	1.260	1.595	1.635	5.995
145	1.635	1.550	1.425	1.340	1.215	1.130	1.425	1.675	1.760	4.990
150	1.675	1.595	1.510	1.385	1.385	1.465	1.760	1.885	1.970	4.695
155	1.635	1.550	1.510	1.510	1.675	1.885	2.055	2.095	2.180	4.485
160	1.595	1.635	1.675	1.930	2.265	2.390	2.345	2.430	2.515	3.940
165	1.845	2.095	2.390	2.765	3.020	2.935	2.935	2.975	3.020	3.770
170	2.890	3.185	3.435	3.355	3.355	3.395	3.435	3.435	3.480	3.815
175	3.605	3.605	3.645	3.645	3.645	3.730	3.730	3.730	3.770	3.855
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	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855	8.855
5	12.825	14.795	16.805	18.775	20.620	22.340	24.060	25.650	27.075	28.375
10	17.730	22.215	26.950	31.310	35.585	39.690	43.715	47.485	50.840	54.025
15	22.550	29.590	37.050	44.090	50.925	57.585	63.960	70.455	76.030	81.435
20	27.245	37.175	47.195	56.835	66.515	75.905	85.250	94.175	102.310	110.020
25	31.685	44.090	56.540	69.450	81.895	94.470	106.665	118.065	128.880	139.065
30	35.875	50.505	66.055	81.350	97.655	112.870	127.620	142.290	155.745	167.105
35	41.285	56.915	75.150	93.170	112.575	130.600	148.370	166.015	181.900	196.985
40	43.335	62.870	83.655	104.360	126.740	147.615	166.850	188.565	207.295	224.860
45	45.850	68.860	91.370	114.670	139.650	163.290	185.755	208.930	230.225	250.800
50	49.375	73.725	98.325	123.935	151.510	171.670	202.270	227.920	251.470	274.020
55	51.635	77.790	104.320	131.895	160.900	188.185	216.685	244.390	269.790	294.430
60	53.480	81.140	110.230	139.610	168.485	198.455	228.800	258.095	285.170	311.365
65	54.990	82.985	113.370	145.015	171.255	206.585	238.310	268.910	297.155	324.485
70	55.910	84.790	116.305	147.990	175.110	213.625	246.235	276.785	305.875	333.915
75	56.455	86.005	118.190	150.630	181.980	217.650	249.795	281.815	312.205	339.740
80	55.660	86.465	119.070	151.930	186.510	219.450	251.935	285.045	314.550	342.000
85	55.325	86.340	118.990	151.975	186.465	219.450	251.680	283.705	314.005	341.290
90	55.490	86.380	117.985	150.675	182.150	217.650	249.585	281.230	310.190	338.105
95	54.235	84.830	116.055	148.325	175.735	213.250	245.730	276.705	305.120	332.405
100	52.640	82.525	112.870	145.395	173.140	207.715	238.440	269.495	297.280	323.770
105	50.715	78.835	110.270	140.785	170.580	201.220	231.775	261.070	287.725	313.375
110	48.535	75.735	105.030	134.330	164.880	194.220	222.635	250.800	276.370	300.930
115	45.685	72.045	99.920	127.915	157.840	184.875	211.905	238.690	263.000	286.845
120	40.235	67.605	94.135	120.625	148.830	172.425	199.710	225.740	248.540	269.620
125	37.345	59.600	84.745	109.350	136.380	162.075	186.130	210.315	231.605	251.305
130	27.115	50.755	74.770	96.605	120.330	143.130	164.925	189.860	212.035	230.975
135	20.535	44.470	63.580	84.745	105.450	125.110	144.975	162.910	185.545	206.880

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CANDELA TABULATION - (Cont.)

140	16.555	34.075	51.635	72.340	91.160	108.345	125.110	142.545	158.050	176.575
145	13.580	25.355	42.455	57.840	75.525	94.385	107.755	120.835	134.495	148.830
150	12.030	20.705	32.145	47.990	59.555	75.400	91.870	103.355	112.365	122.090
155	10.015	17.480	25.440	34.995	47.530	57.755	69.365	82.860	92.080	99.795
160	7.965	14.085	20.245	26.700	33.195	41.785	50.715	58.760	67.100	73.765
165	6.160	10.100	15.215	19.910	24.685	29.045	33.320	38.180	43.000	49.245
170	4.905	6.790	9.470	12.825	15.970	18.905	21.500	24.140	26.615	28.375
175	4.110	4.525	5.325	6.330	7.420	8.800	10.185	11.570	12.660	13.620
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	8.855	8.855	8.855	8.855	8.855	8.855	8.855
5	29.505	30.555	31.390	32.065	32.480	32.735	32.775
10	56.915	59.305	61.360	62.950	64.085	64.710	64.880
15	86.170	90.195	93.675	96.400	98.200	99.330	99.750
20	116.935	122.760	127.830	131.855	134.580	136.215	136.800
25	148.285	156.040	162.830	167.145	171.295	173.430	174.185
30	179.550	189.400	197.740	204.445	209.185	212.245	213.335
35	210.565	222.890	232.865	241.205	247.070	250.845	251.975
40	240.745	254.785	267.150	276.535	283.450	287.980	289.275
45	269.245	285.130	299.085	309.770	317.735	322.805	324.150
50	294.640	312.285	327.795	339.740	348.625	354.075	355.750
55	316.730	336.050	352.605	365.935	375.365	381.190	383.160
60	335.130	355.330	373.185	387.185	397.035	403.195	405.375
65	349.210	370.295	388.275	403.405	413.800	420.295	422.305
70	359.185	380.940	399.295	414.300	425.325	431.695	433.875
75	365.345	387.100	405.665	420.840	431.315	438.190	440.160
80	366.855	388.735	408.305	422.935	433.455	440.160	442.255
85	365.935	388.150	406.965	421.385	431.650	438.485	440.580
90	363.000	384.210	402.690	416.730	427.085	433.540	435.550
95	356.715	377.500	395.525	409.775	419.790	426.035	428.005
100	347.450	367.610	385.255	398.960	408.770	414.720	416.940
105	336.385	355.790	372.850	386.220	395.525	401.350	403.360
110	322.975	341.665	357.425	370.630	379.680	385.255	387.100
115	307.175	324.985	340.075	352.145	360.905	366.355	368.070
120	288.730	306.040	320.080	331.650	339.825	344.850	346.530
125	268.910	284.960	298.370	308.640	316.185	321.045	322.555
130	247.785	261.785	274.065	283.575	290.410	294.935	296.400
135	224.395	237.140	248.245	256.670	262.955	266.810	267.985
140	195.270	211.025	220.835	228.590	233.995	237.430	238.480
145	162.785	178.460	192.375	199.080	203.820	206.750	207.800
150	133.530	145.060	158.555	168.655	172.760	175.275	176.115
155	105.745	114.295	123.515	135.965	142.625	144.680	145.350
160	78.965	82.610	89.480	97.740	109.225	111.610	112.240
165	53.565	56.290	57.335	61.820	67.690	75.525	75.860
170	30.050	31.310	31.100	30.345	32.775	38.895	43.420
175	14.290	14.710	14.920	14.165	12.910	13.075	18.105
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11.11	N.A.	0.90
0-30	36.73	N.A.	2.90
0-40	85.28	N.A.	6.80
0-60	262.87	N.A.	21.00
0-80	525.24	N.A.	41.90
0-90	668.52	N.A.	53.30
10-90	667.00	N.A.	53.20
20-40	74.17	N.A.	5.90
20-50	149.62	N.A.	11.90
40-70	301.71	N.A.	24.10
60-80	262.37	N.A.	20.90
70-80	138.25	N.A.	11.00
80-90	143.28	N.A.	11.40
90-110	266.76	N.A.	21.30
90-120	376.00	N.A.	30.00
90-130	462.15	N.A.	36.90
90-150	559.59	N.A.	44.70
90-180	584.66	N.A.	46.70
110-180	317.91	N.A.	25.40
0-180	1253.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.52
10-20	9.59
20-30	25.62
30-40	48.55
40-50	75.45
50-60	102.14
60-70	124.12
70-80	138.25
80-90	143.28
90-100	139.30
100-110	127.45
110-120	109.24
120-130	86.15
130-140	60.53
140-150	36.91
150-160	18.33
160-170	5.98
170-180	0.76

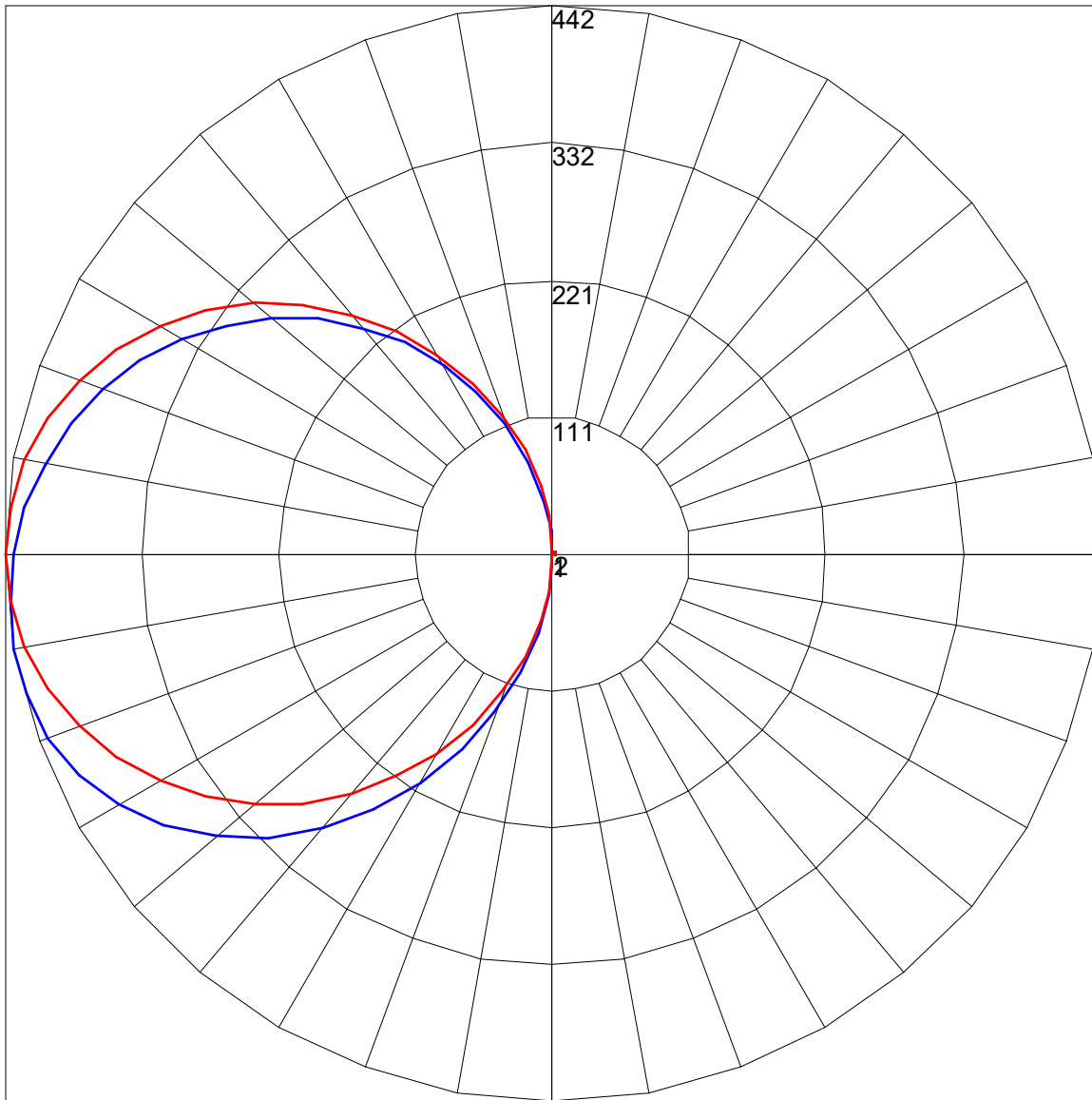
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	72	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	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	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 = 442.255 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.)