

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-LO-359-HA-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	81	83	85	86
Total Lumens, 4' rail length (1219mm)	1196	1234	1259	1272
Lumens per foot (305mm)	299	308	315	318
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_HA_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011205 (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-HA-BL

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

[MORE] single side diffuse black lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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	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	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815
5	0.505	0.505	0.505	0.545	0.545	0.545	0.545	0.630	0.630	0.630
10	0.335	0.335	0.335	0.335	0.335	0.335	0.375	0.420	0.420	0.420
15	0.335	0.335	0.335	0.335	0.335	0.375	0.420	0.420	0.420	0.420
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	0.545	0.545	0.505	0.505	0.460	0.460
30	0.670	0.670	0.630	0.630	0.630	0.630	0.630	0.545	0.545	0.545
35	0.755	0.755	0.755	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	1.005	1.050	1.050	1.005	0.965	0.965	0.920	0.880	0.840	0.755
50	1.175	1.175	1.175	1.130	1.090	1.050	1.050	0.965	0.920	0.840
55	1.260	1.260	1.260	1.260	1.215	1.175	1.130	1.050	1.005	0.920
60	1.340	1.340	1.340	1.340	1.300	1.300	1.215	1.130	1.090	1.005
65	1.510	1.465	1.425	1.425	1.385	1.385	1.300	1.215	1.175	1.090
70	1.595	1.550	1.550	1.510	1.465	1.465	1.385	1.300	1.260	1.175
75	1.595	1.635	1.595	1.595	1.550	1.510	1.465	1.385	1.300	1.215
80	1.675	1.675	1.675	1.675	1.635	1.550	1.510	1.425	1.340	1.260
85	1.760	1.760	1.760	1.720	1.720	1.635	1.550	1.510	1.425	1.340
90	1.845	1.845	1.800	1.760	1.720	1.720	1.635	1.550	1.425	1.340
95	1.845	1.845	1.845	1.800	1.760	1.720	1.635	1.550	1.465	1.340
100	1.930	1.885	1.885	1.845	1.800	1.720	1.675	1.595	1.510	1.425
105	1.930	1.930	1.930	1.885	1.800	1.800	1.720	1.635	1.510	1.425
110	1.930	1.930	1.930	1.885	1.885	1.800	1.720	1.675	1.595	1.465
115	1.930	1.930	1.930	1.885	1.885	1.800	1.720	1.675	1.595	1.465
120	1.930	1.930	1.930	1.885	1.800	1.800	1.720	1.675	1.550	1.425
125	1.930	1.930	1.885	1.885	1.800	1.760	1.720	1.635	1.550	1.465
130	1.845	1.845	1.800	1.800	1.760	1.720	1.635	1.635	1.510	1.425
135	1.760	1.760	1.760	1.720	1.720	1.635	1.595	1.550	1.550	1.465
140	1.675	1.675	1.675	1.635	1.635	1.550	1.550	1.550	1.550	1.465
145	1.595	1.595	1.550	1.550	1.510	1.510	1.550	1.550	1.550	1.510
150	1.510	1.465	1.465	1.385	1.425	1.465	1.550	1.595	1.550	1.510
155	1.340	1.340	1.260	1.300	1.385	1.465	1.510	1.550	1.550	1.465
160	1.175	1.175	1.130	1.175	1.300	1.425	1.465	1.465	1.425	1.425
165	1.090	0.965	1.005	1.090	1.260	1.300	1.340	1.465	1.595	1.675
170	1.260	1.340	1.385	1.595	1.720	1.760	1.800	1.885	1.970	1.930
175	1.260	1.385	1.595	1.720	1.760	1.760	1.800	1.845	1.845	1.845
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	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815
5	0.670	0.715	0.715	0.715	0.755	0.795	0.840	1.050	1.340	2.010
10	0.505	0.505	0.585	0.630	0.670	0.715	0.755	0.795	1.300	3.310
15	0.420	0.420	0.460	0.505	0.585	0.670	0.715	0.795	1.260	5.450
20	0.420	0.460	0.460	0.460	0.505	0.585	0.670	0.795	1.260	8.045
25	0.460	0.460	0.460	0.460	0.460	0.545	0.630	0.755	1.215	10.605
30	0.505	0.460	0.460	0.460	0.460	0.505	0.585	0.715	1.175	12.615
35	0.585	0.545	0.505	0.460	0.460	0.460	0.585	0.715	1.260	14.920
40	0.630	0.585	0.545	0.505	0.460	0.460	0.545	0.715	1.215	17.015
45	0.670	0.670	0.585	0.545	0.505	0.460	0.545	0.670	1.130	19.575
50	0.755	0.670	0.670	0.585	0.505	0.505	0.460	0.670	1.130	21.335
55	0.840	0.755	0.670	0.585	0.585	0.505	0.460	0.585	1.130	22.885
60	0.920	0.840	0.755	0.670	0.585	0.505	0.460	0.585	1.130	24.225

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CANDELA TABULATION - (Cont.)

65	1.005	0.920	0.795	0.670	0.585	0.505	0.505	0.505	1.090	25.315
70	1.090	0.920	0.840	0.755	0.670	0.585	0.505	0.460	1.005	25.315
75	1.090	1.005	0.880	0.755	0.670	0.585	0.505	0.460	1.465	28.920
80	1.175	1.050	0.920	0.795	0.670	0.585	0.505	0.460	1.425	29.340
85	1.175	1.050	0.965	0.795	0.715	0.585	0.505	0.460	1.425	29.630
90	1.215	1.130	0.965	0.795	0.715	0.630	0.545	0.460	1.260	33.615
95	1.260	1.130	0.965	0.880	0.715	0.630	0.545	0.505	1.260	33.235
100	1.300	1.130	1.050	0.880	0.795	0.670	0.585	0.505	1.130	29.630
105	1.300	1.215	1.050	0.920	0.795	0.715	0.585	0.505	1.050	28.920
110	1.340	1.215	1.050	0.965	0.795	0.715	0.630	0.545	0.965	24.350
115	1.340	1.215	1.090	0.965	0.880	0.755	0.670	0.630	1.260	21.290
120	1.340	1.260	1.090	1.005	0.920	0.755	0.670	0.755	1.215	17.815
125	1.385	1.215	1.130	1.050	0.920	0.840	0.715	0.840	1.215	14.710
130	1.340	1.260	1.175	1.090	1.005	0.840	0.795	0.920	1.260	12.615
135	1.425	1.300	1.175	1.090	1.005	0.880	0.965	0.965	1.300	10.560
140	1.425	1.340	1.260	1.130	1.050	0.965	1.090	1.005	1.340	9.265
145	1.465	1.385	1.260	1.130	1.050	1.215	1.130	1.090	1.385	8.215
150	1.425	1.340	1.300	1.175	1.300	1.385	1.215	1.215	1.510	7.505
155	1.385	1.340	1.300	1.425	1.510	1.425	1.340	1.340	1.720	6.790
160	1.385	1.550	1.675	1.675	1.595	1.465	1.465	1.465	1.885	6.035
165	1.800	1.845	1.845	1.720	1.635	1.595	1.595	1.595	2.095	5.240
170	1.970	1.885	1.800	1.760	1.760	1.720	1.760	1.800	2.345	4.485
175	1.800	1.760	1.760	1.760	1.760	1.800	1.800	1.800	2.390	3.565
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	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815	1.815
5	3.020	4.570	6.415	8.425	10.395	12.320	14.085	15.800	17.310	18.695
10	7.505	12.240	17.100	21.795	26.405	30.720	35.125	38.980	42.585	45.980
15	12.785	20.330	27.995	35.585	42.835	49.875	56.835	63.455	69.405	75.065
20	18.105	28.250	38.855	49.375	59.555	69.450	79.340	88.770	97.320	105.450
25	23.180	36.045	49.415	62.575	76.155	89.400	101.845	114.295	125.610	136.340
30	28.125	43.545	59.895	75.985	93.005	108.970	124.565	140.070	154.235	167.395
35	32.230	50.755	69.870	88.685	109.055	128.000	146.610	165.760	182.025	197.825
40	38.895	57.420	79.215	100.800	124.185	146.065	167.565	188.355	208.595	227.080
45	40.950	64.210	87.680	111.945	138.100	162.660	186.215	210.400	232.695	254.195
50	44.470	69.785	95.310	121.840	150.550	172.425	203.525	230.180	254.740	278.420
55	47.530	74.605	101.970	131.435	160.650	188.855	217.650	247.365	273.730	299.380
60	50.085	77.745	108.635	138.895	169.660	199.670	230.095	261.320	289.445	316.605
65	52.225	80.930	112.155	144.725	172.720	209.100	240.700	272.305	301.475	329.720
70	53.775	83.365	115.550	147.990	176.825	215.220	247.660	280.055	309.900	339.530
75	54.025	85.040	117.940	150.925	182.990	219.160	252.015	285.715	315.725	343.720
80	54.735	86.005	119.200	152.475	187.640	220.920	253.905	287.515	317.525	345.315
85	55.030	87.305	119.535	152.770	187.765	220.920	253.485	285.840	315.470	343.845
90	55.785	87.050	118.780	151.720	182.445	219.035	251.055	282.740	311.825	339.615
95	55.240	86.005	117.310	150.630	176.955	214.465	246.735	277.585	305.915	332.950
100	54.150	84.245	115.845	147.280	173.935	209.310	240.615	270.460	297.745	323.855
105	52.895	81.140	111.570	143.005	171.590	202.815	232.865	261.615	287.725	312.665
110	51.215	78.500	107.670	136.760	167.815	195.770	223.685	251.180	275.865	299.715
115	49.205	75.315	103.020	130.640	160.145	186.595	212.955	238.900	263.000	284.750
120	43.800	71.375	97.695	123.685	151.385	172.760	200.925	225.990	247.950	268.235
125	39.985	65.255	89.105	113.500	139.945	164.630	187.640	210.275	230.725	250.175
130	33.110	56.120	79.550	101.090	124.520	146.860	166.810	192.040	212.705	230.685
135	27.245	47.275	69.070	89.315	109.095	129.090	148.660	167.230	188.185	208.135

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CANDELA TABULATION - (Cont.)

140	21.625	40.320	58.005	77.495	95.350	111.865	128.375	146.065	159.980	179.385
145	17.480	31.935	49.415	63.540	80.725	98.370	111.655	124.435	138.015	152.140
150	15.130	25.525	39.145	51.720	65.675	81.310	96.230	107.045	115.930	125.820
155	13.160	21.375	31.140	42.040	53.395	63.120	75.230	88.185	96.690	103.940
160	11.315	17.895	24.810	32.105	40.615	48.955	56.875	64.545	73.135	79.635
165	9.305	13.745	19.320	24.265	29.760	34.870	40.280	45.225	50.210	56.205
170	7.210	10.015	13.410	17.140	20.535	23.515	26.445	29.170	31.350	33.530
175	4.905	6.415	8.005	9.640	11.360	13.120	14.630	15.925	16.975	17.940
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	1.815	1.815	1.815	1.815	1.815	1.815	1.815
5	19.910	21.000	21.835	22.505	23.010	23.260	23.305
10	48.995	51.470	53.650	55.325	56.500	57.170	57.420
15	80.050	84.325	87.975	90.825	92.795	93.965	94.385
20	112.745	118.945	124.310	128.460	131.310	133.155	133.700
25	146.105	154.360	161.320	166.935	170.455	172.720	173.515
30	179.300	189.695	198.455	205.620	210.565	213.875	214.840
35	212.160	224.735	235.670	244.390	250.590	254.530	255.830
40	243.805	258.765	271.505	281.440	288.690	293.345	294.810
45	273.560	290.240	304.785	316.100	324.355	329.680	331.355
50	300.005	318.450	334.540	347.240	356.380	362.080	363.880
55	322.680	342.590	360.110	373.855	383.665	389.700	391.795
60	341.080	362.160	380.645	395.275	405.585	411.910	414.260
65	355.120	377.085	395.650	411.325	422.015	428.550	430.605
70	364.635	386.930	405.750	421.300	432.115	439.155	441.335
75	369.160	392.295	411.155	426.625	437.480	444.395	446.615
80	370.585	393.510	412.750	427.460	438.190	445.105	447.120
85	369.455	391.165	409.900	424.525	434.880	441.670	443.680
90	364.465	385.675	404.030	418.240	428.675	435.005	437.145
95	356.965	377.585	395.400	409.395	419.330	425.405	427.420
100	347.115	366.900	384.040	397.705	407.175	412.960	414.930
105	335.045	353.945	370.000	383.455	392.550	398.125	400.090
110	321.045	338.985	354.115	366.605	375.575	380.940	382.740
115	304.995	321.970	336.260	347.910	356.210	361.490	363.125
120	286.510	302.940	316.770	327.290	335.085	340.035	341.585
125	267.440	282.195	294.975	304.700	311.825	316.435	317.775
130	246.570	259.895	271.505	280.475	287.180	291.205	292.460
135	224.145	236.260	246.820	255.160	260.775	264.425	265.555
140	197.405	211.445	220.710	228.085	233.240	236.300	237.475
145	166.305	181.355	193.675	200.045	204.530	207.255	208.135
150	137.305	149.080	162.285	171.295	175.110	177.455	178.210
155	109.975	118.610	128.250	140.740	146.315	148.325	148.955
160	84.495	88.435	95.350	104.070	115.005	117.230	117.775
165	59.895	62.070	63.205	67.900	74.815	82.565	82.900
170	35.835	37.260	37.300	37.220	40.485	48.535	52.305
175	18.485	18.695	18.565	17.100	15.590	15.800	22.885
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	9.56	N.A.	0.80
0-30	34.18	N.A.	2.70
0-40	82.28	N.A.	6.50
0-60	261.33	N.A.	20.80
0-80	526.44	N.A.	41.80
0-90	670.67	N.A.	53.30
10-90	669.65	N.A.	53.20
20-40	72.73	N.A.	5.80
20-50	148.55	N.A.	11.80
40-70	304.58	N.A.	24.20
60-80	265.12	N.A.	21.10
70-80	139.58	N.A.	11.10
80-90	144.23	N.A.	11.50
90-110	267.25	N.A.	21.20
90-120	376.34	N.A.	29.90
90-130	462.60	N.A.	36.70
90-150	561.62	N.A.	44.60
90-180	588.44	N.A.	46.70
110-180	321.19	N.A.	25.50
0-180	1259.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.02
10-20	8.54
20-30	24.63
30-40	48.10
40-50	75.83
50-60	103.22
60-70	125.54
70-80	139.58
80-90	144.23
90-100	139.75
100-110	127.50
110-120	109.09
120-130	86.26
130-140	61.17
140-150	37.86
150-160	19.30
160-170	6.65
170-180	0.87

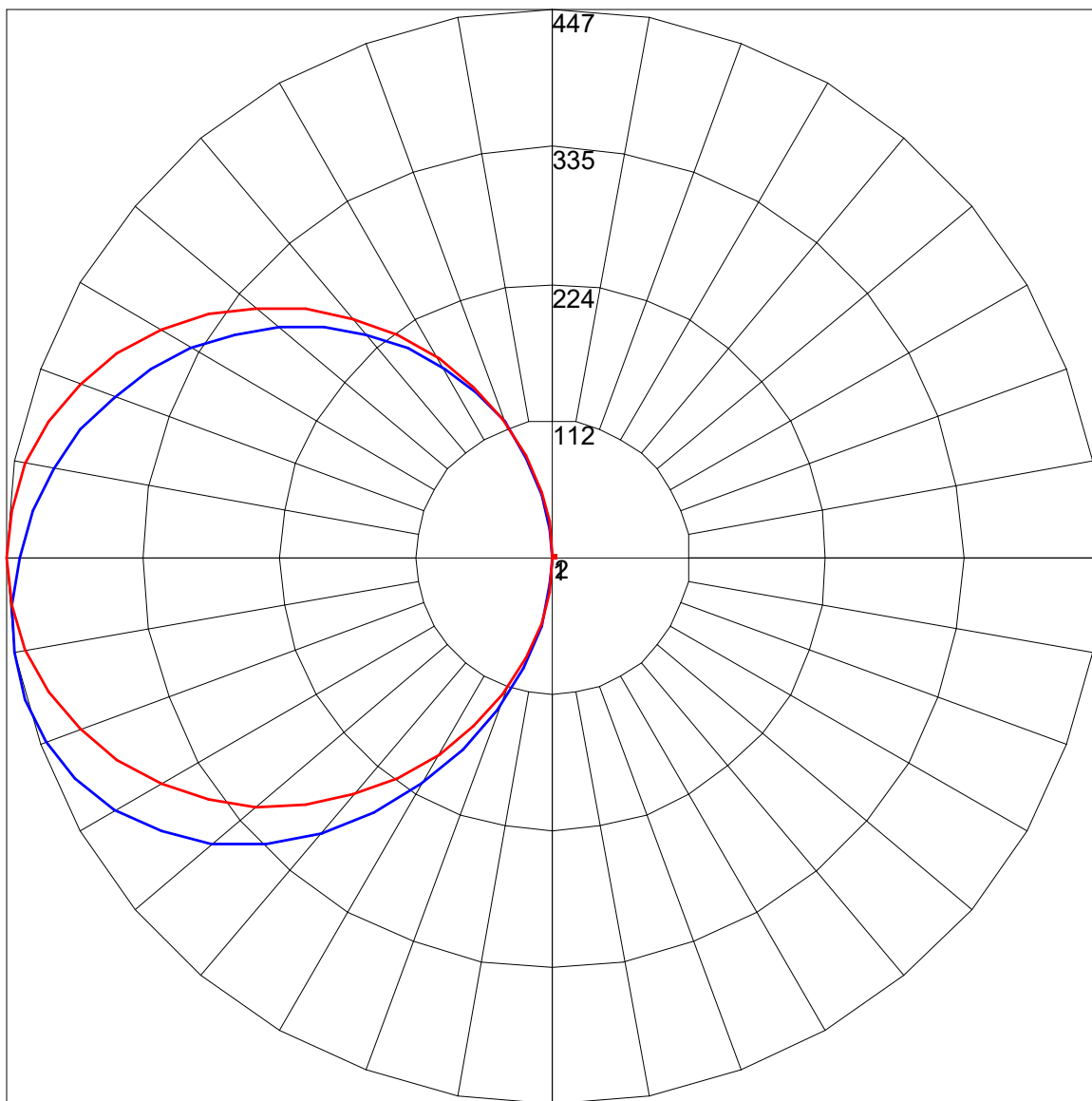
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	74	85	79	73	68	66	61	58	54	51	48	43	40	38	33
2	82	71	63	56	75	65	58	51	54	48	43	44	39	35	34	31	27	23
3	73	61	51	43	67	56	47	40	46	39	33	37	31	27	28	24	21	16
4	66	53	43	35	60	48	39	32	39	32	27	32	26	21	24	20	16	12
5	60	46	36	29	54	42	33	26	35	27	22	28	22	17	21	17	13	10
6	55	41	31	24	50	37	28	22	31	24	18	24	19	14	19	14	11	8
7	50	36	27	20	46	33	25	19	27	20	15	22	16	12	17	12	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	14	10	15	11	8	5
9	43	29	21	15	39	27	19	14	22	16	11	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	20	14	10	16	11	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 447.12 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.)