

IES Report

ZipTwo® | 707 | Square 3519, Single Side Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-FA-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	29	29	30	30
Total Lumens, 4' rail length (1219mm)	1111	1146	1169	1181
Lumens per foot (305mm)	278	286	292	295
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_FA_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011215 (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-FA-BL

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

[MORE] square 3519, single side diffuse black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1169
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	30
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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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_BL.IES

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	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255
5	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005
10	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.885
15	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.750	0.750
20	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510
25	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510	0.510
30	0.750	0.750	0.750	0.750	0.630	0.630	0.630	0.630	0.510	0.510
35	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.630	0.630
40	1.005	1.005	1.005	1.005	0.885	0.885	0.885	0.750	0.750	0.750
45	1.005	1.005	1.005	1.005	1.005	1.005	1.005	0.885	0.885	0.750
50	1.260	1.260	1.260	1.260	1.125	1.125	1.005	1.005	0.885	0.885
55	1.260	1.260	1.260	1.260	1.260	1.260	1.125	1.125	1.125	1.005
60	1.515	1.515	1.515	1.515	1.380	1.380	1.260	1.260	1.125	1.005
65	1.515	1.515	1.515	1.515	1.515	1.515	1.380	1.260	1.260	1.125
70	1.755	1.755	1.635	1.635	1.515	1.515	1.515	1.380	1.260	1.125
75	1.755	1.755	1.755	1.755	1.635	1.515	1.515	1.380	1.380	1.260
80	1.755	1.755	1.755	1.755	1.755	1.635	1.515	1.515	1.380	1.260
85	1.755	1.755	1.755	1.755	1.755	1.755	1.635	1.515	1.380	1.380
90	2.010	2.010	1.890	1.890	1.755	1.755	1.635	1.635	1.380	1.380
95	2.010	2.010	2.010	2.010	1.890	1.755	1.755	1.635	1.515	1.515
100	2.265	2.265	2.265	2.265	2.145	2.145	2.010	1.890	1.755	1.635
105	2.520	2.520	2.520	2.520	2.385	2.385	2.265	2.145	2.010	1.890
110	2.760	2.760	2.640	2.640	2.640	2.520	2.385	2.385	2.145	2.145
115	2.760	2.895	2.760	2.760	2.760	2.640	2.640	2.640	2.385	2.265
120	3.015	3.015	3.015	2.895	2.895	2.895	2.760	2.640	2.520	2.385
125	3.015	3.150	3.150	3.015	2.895	2.895	2.895	2.640	2.640	2.385
130	3.015	3.150	3.150	3.150	3.015	2.895	2.895	2.895	2.385	2.385
135	3.015	3.015	3.150	2.895	2.895	2.895	2.760	2.520	2.520	2.520
140	3.015	3.015	3.150	3.150	3.150	2.760	2.640	2.640	2.640	2.640
145	3.015	3.015	3.150	3.150	2.760	2.640	2.760	2.760	2.760	2.895
150	3.015	3.150	3.150	2.760	2.640	2.760	2.760	2.895	3.270	3.150
155	3.015	3.150	3.150	2.520	2.760	2.760	3.015	3.270	3.270	3.150
160	3.015	3.015	2.520	2.640	2.640	3.270	3.270	3.270	3.270	3.270
165	3.015	2.385	2.385	2.640	3.390	3.645	3.900	4.395	5.160	6.030
170	6.030	5.400	5.655	6.540	6.795	7.035	7.290	7.545	7.800	8.055
175	6.285	7.035	7.800	8.430	8.550	8.670	8.805	8.925	9.060	9.180
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	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255
5	1.005	1.005	1.005	1.125	1.260	1.380	1.635	2.010	2.520	3.390
10	0.885	1.005	1.005	1.005	1.005	1.005	1.125	1.515	2.385	4.905
15	0.750	0.750	0.750	1.005	1.005	1.005	1.005	1.260	2.520	6.420
20	0.510	0.750	0.750	0.750	0.750	1.005	1.005	1.125	2.520	8.295
25	0.510	0.510	0.510	0.750	0.750	0.750	1.005	1.005	2.385	9.930
30	0.510	0.510	0.510	0.510	0.750	0.750	0.750	1.005	2.520	11.820
35	0.630	0.510	0.510	0.510	0.510	0.750	0.750	0.885	2.520	13.575
40	0.630	0.630	0.510	0.510	0.510	0.510	0.750	0.750	2.640	15.210
45	0.750	0.630	0.630	0.510	0.510	0.510	0.750	0.750	2.640	16.725
50	0.885	0.750	0.630	0.630	0.510	0.510	0.510	0.750	2.640	17.985
55	0.885	0.885	0.630	0.630	0.630	0.510	0.510	0.750	2.760	19.365
60	0.885	0.885	0.750	0.630	0.630	0.510	0.510	0.510	2.640	20.370

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_BL.IES

CANDELA TABULATION - (Cont.)

65	1.005	0.885	0.885	0.630	0.630	0.510	0.510	0.510	2.760	21.375
70	1.125	0.885	0.885	0.750	0.630	0.630	0.510	0.510	2.640	22.005
75	1.125	1.005	0.885	0.885	0.630	0.630	0.510	0.510	2.640	22.635
80	1.125	1.125	0.885	0.885	0.630	0.630	0.510	0.510	2.640	23.130
85	1.125	1.125	0.885	0.885	0.630	0.630	0.510	0.510	2.520	23.130
90	1.260	1.125	0.885	0.885	0.630	0.630	0.630	0.510	2.265	23.130
95	1.380	1.260	1.125	0.885	0.885	0.750	0.630	0.510	1.380	23.520
100	1.515	1.380	1.260	1.125	1.005	0.885	0.750	0.750	1.635	23.760
105	1.755	1.635	1.380	1.260	1.125	1.005	0.750	0.750	1.890	23.010
110	1.890	1.755	1.635	1.380	1.260	1.005	1.005	1.005	2.265	20.250
115	2.145	1.890	1.635	1.515	1.515	1.260	1.260	1.380	2.760	17.985
120	2.265	2.145	1.890	1.890	1.635	1.635	1.380	2.145	3.270	15.210
125	2.265	2.145	2.010	2.010	1.890	1.890	1.755	3.015	3.900	13.830
130	2.385	2.265	2.145	2.010	2.010	2.010	2.145	3.645	4.395	11.700
135	2.520	2.385	2.385	2.145	2.145	2.265	3.015	4.155	4.785	10.935
140	2.520	2.640	2.385	2.265	2.145	2.895	3.780	4.530	5.160	10.185
145	3.015	2.640	2.385	2.265	2.760	4.155	4.395	5.025	5.535	9.435
150	3.150	2.895	2.760	3.270	4.395	5.535	5.535	5.910	6.660	9.555
155	3.150	3.015	3.900	5.025	5.910	6.285	6.660	7.035	7.665	10.065
160	3.900	4.905	5.910	6.660	6.915	7.170	7.545	7.920	8.550	10.305
165	6.540	7.170	7.545	7.800	7.800	8.055	8.430	8.805	9.180	10.305
170	8.175	8.430	8.550	8.670	8.805	9.060	9.300	9.675	9.930	10.560
175	9.180	9.180	9.300	9.555	9.810	9.930	10.305	10.440	10.560	10.695
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	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255	3.255
5	4.530	5.790	7.170	8.550	10.065	11.310	12.570	13.830	14.970	15.975
10	7.920	11.310	14.835	18.225	21.255	24.015	26.790	29.295	31.680	33.825
15	11.700	17.220	22.260	27.030	31.815	36.345	40.860	45.135	48.915	52.560
20	15.585	22.890	29.430	36.090	42.870	49.545	55.695	61.860	67.395	72.675
25	19.365	28.170	36.720	45.510	54.570	63.120	71.415	79.590	87.135	94.170
30	22.755	33.315	44.010	54.825	66.390	77.070	87.510	98.070	107.505	116.805
35	25.650	38.595	51.420	64.380	78.210	91.290	104.235	116.940	128.880	140.190
40	28.920	44.010	58.725	73.935	90.525	105.870	121.335	136.680	151.380	164.715
45	32.070	48.540	66.015	83.490	102.345	120.450	138.180	156.285	173.775	189.615
50	34.830	53.445	72.795	92.550	114.165	134.535	155.040	176.535	195.900	214.260
55	37.725	57.840	79.470	101.340	125.235	148.365	171.255	195.525	217.395	238.515
60	40.230	62.115	85.500	109.515	135.795	161.070	186.465	213.255	237.645	261.285
65	42.255	65.880	90.915	116.805	145.095	172.380	199.920	229.095	255.870	281.655
70	44.265	69.780	95.685	123.090	153.150	182.190	211.485	242.670	271.470	298.875
75	46.395	72.420	99.465	128.250	159.690	190.110	220.920	252.600	283.665	312.585
80	47.655	74.430	102.480	132.150	164.715	196.155	227.715	260.400	291.210	321.885
85	48.405	75.825	104.490	134.670	167.865	199.800	231.990	265.050	296.355	327.165
90	48.780	76.575	105.375	135.915	169.365	201.300	233.745	266.820	297.990	328.545
95	49.035	76.695	105.495	135.915	169.245	201.300	233.235	265.935	296.865	327.165
100	49.170	76.575	104.985	135.045	167.985	199.425	230.850	262.920	293.085	322.890
105	48.915	75.945	103.740	133.035	164.970	195.525	226.320	257.505	286.680	315.345
110	48.030	74.685	101.595	129.885	160.815	190.245	219.540	249.465	277.500	304.905
115	44.265	72.675	98.580	125.610	154.275	183.195	211.110	239.400	265.800	291.585
120	37.470	68.520	94.305	120.450	147.495	173.640	200.670	226.950	251.595	275.610
125	32.820	58.335	84.870	108.885	134.535	160.320	187.605	212.745	235.380	257.250
130	27.795	47.400	74.310	97.830	120.075	143.085	166.095	190.875	215.640	237.015
135	23.385	41.370	59.355	84.870	105.750	125.490	145.980	166.980	187.605	209.730

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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_BL.IES

CANDELA TABULATION - (Cont.)

140	20.490	34.575	48.285	66.885	91.785	110.145	126.360	143.970	161.190	179.295
145	17.985	27.915	41.625	53.190	70.290	95.190	110.520	122.970	136.170	150.630
150	17.475	25.275	34.455	46.530	56.835	69.915	88.770	104.235	114.540	123.600
155	16.095	23.265	30.555	37.725	47.910	56.715	64.875	76.830	87.135	97.320
160	14.580	20.880	26.790	32.565	38.100	44.010	51.045	58.335	65.265	69.405
165	13.080	17.220	22.380	26.910	31.185	35.580	38.850	42.750	46.140	50.925
170	11.940	14.205	17.100	20.625	23.760	26.535	28.800	30.675	33.075	34.950
175	11.190	11.940	13.080	14.205	15.585	17.220	18.615	19.860	20.625	21.495
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	3.255	3.255	3.255	3.255	3.255	3.255	3.255
5	16.725	17.475	18.105	18.615	18.990	19.110	19.110
10	35.715	37.350	38.850	39.855	40.620	40.860	40.995
15	55.830	58.470	60.735	62.745	63.870	64.500	64.875
20	77.460	81.480	84.870	87.510	89.400	90.405	90.780
25	100.590	106.125	110.895	114.420	117.060	118.575	119.205
30	125.115	132.150	138.315	142.830	146.355	148.500	149.370
35	150.630	159.435	167.100	173.145	177.540	180.300	181.065
40	177.420	188.235	197.535	204.945	210.360	213.885	215.010
45	204.570	217.530	228.960	237.765	244.425	248.700	249.960
50	231.360	247.065	260.520	271.215	279.135	284.160	285.675
55	258.015	276.120	291.705	304.035	313.215	319.245	321.135
60	283.155	303.780	321.630	335.460	345.780	352.560	354.825
65	305.670	328.170	347.790	363.120	374.565	382.110	384.495
70	325.650	348.795	369.660	386.130	398.460	406.380	408.900
75	340.365	364.515	386.385	403.365	415.935	424.365	427.005
80	350.175	374.940	397.080	414.420	427.245	435.420	438.060
85	355.830	380.850	402.855	420.210	432.780	441.090	443.595
90	357.090	381.855	403.485	420.465	433.035	441.090	443.850
95	355.080	379.350	400.845	417.570	429.900	437.940	440.325
100	350.175	373.815	394.680	411.030	423.225	431.025	433.545
105	341.880	364.890	385.005	400.845	412.785	420.090	422.475
110	330.180	352.065	371.430	386.760	397.830	405.000	407.385
115	315.225	335.835	354.075	368.655	378.975	385.515	387.525
120	297.615	316.605	333.330	346.785	356.460	362.370	364.380
125	277.380	294.720	310.065	322.260	330.945	336.345	338.235
130	255.120	270.465	284.295	295.230	303.030	307.800	309.315
135	231.225	244.815	257.010	266.430	273.105	277.380	278.625
140	198.540	217.770	228.210	236.640	242.295	246.060	247.200
145	166.095	182.070	199.035	205.830	210.990	214.005	215.010
150	135.420	147.615	161.700	174.900	179.175	181.815	182.565
155	104.985	114.540	124.860	137.685	146.610	148.740	149.625
160	71.790	74.940	82.740	91.665	105.240	108.510	109.140
165	53.940	55.950	56.085	60.600	66.765	76.455	76.695
170	35.955	36.465	34.950	33.195	35.715	43.125	48.780
175	21.885	21.885	21.495	19.740	17.475	17.730	25.905
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7.01	N.A.	0.60
0-30	24.34	N.A.	2.10
0-40	58.91	N.A.	5.00
0-60	199.22	N.A.	17.00
0-80	435.28	N.A.	37.20
0-90	572.91	N.A.	49.00
10-90	572.05	N.A.	48.90
20-40	51.90	N.A.	4.40
20-50	109.10	N.A.	9.30
40-70	248.63	N.A.	21.30
60-80	236.06	N.A.	20.20
70-80	127.73	N.A.	10.90
80-90	137.64	N.A.	11.80
90-110	266.71	N.A.	22.80
90-120	378.90	N.A.	32.40
90-130	467.83	N.A.	40.00
90-150	568.69	N.A.	48.60
90-180	596.07	N.A.	51.00
110-180	329.36	N.A.	28.20
0-180	1168.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.86
10-20	6.15
20-30	17.33
30-40	34.57
40-50	57.20
50-60	83.11
60-70	108.32
70-80	127.73
80-90	137.64
90-100	137.68
100-110	129.03
110-120	112.19
120-130	88.93
130-140	62.56
140-150	38.30
150-160	19.17
160-170	6.94
170-180	1.27

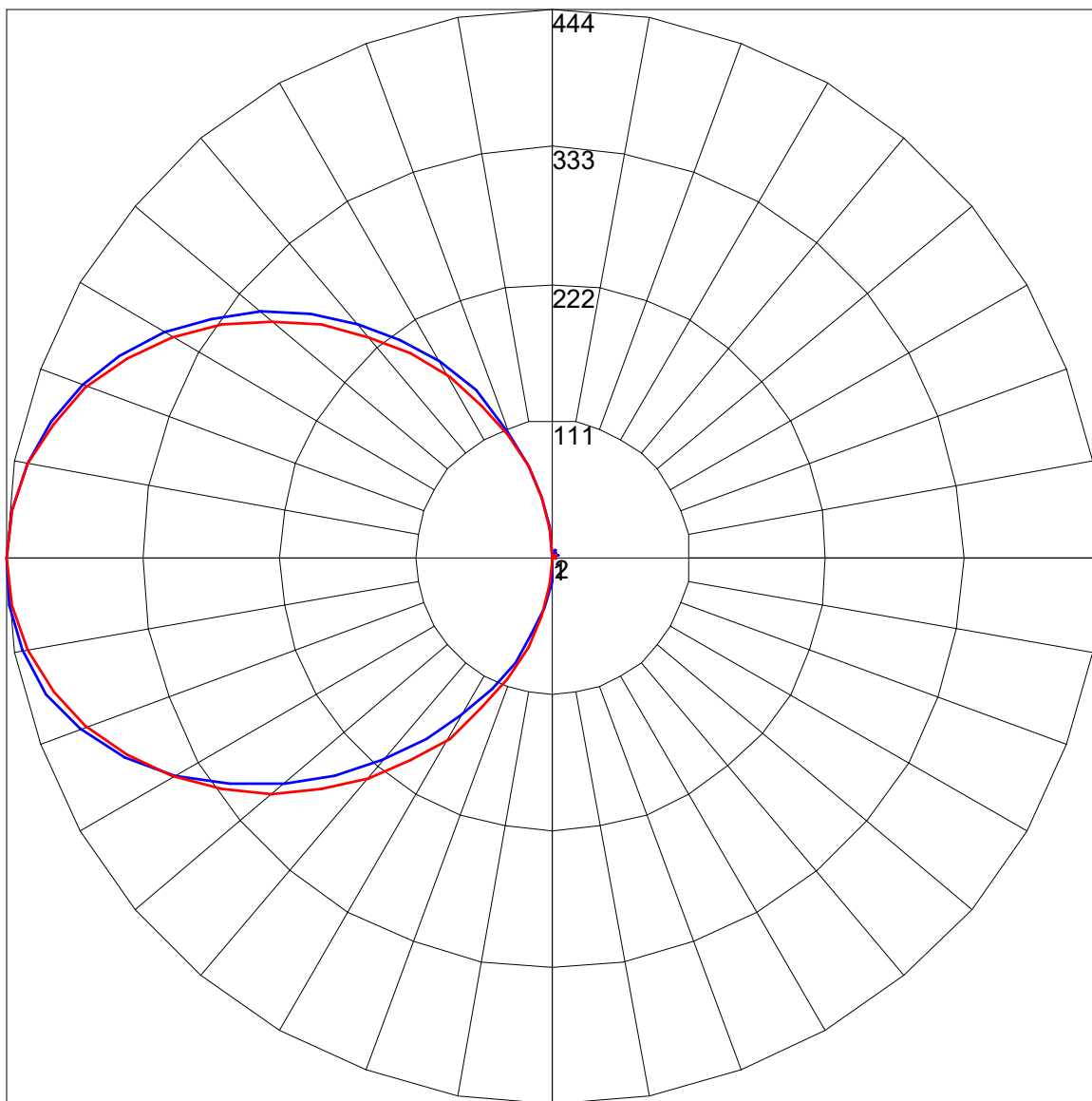
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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_BL.IES

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	91	85	78	73	83	77	72	67	63	59	55	51	48	45	39	37	35	29
2	81	70	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	19
3	72	60	50	43	65	55	46	39	44	37	32	35	29	25	26	22	18	14
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10
5	59	45	36	28	54	41	32	26	33	26	21	26	20	16	19	15	11	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	13	17	13	9	6
7	50	36	27	20	45	33	24	18	26	20	15	21	15	11	15	11	8	5
8	46	32	23	17	42	29	21	16	24	17	13	19	13	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	15	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 443.85 Located At Horizontal Angle = 180, Vertical Angle = 90

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)