

IES Report

ZipTwo® | 707 | Square 3536, Single Side Diffuse | 90 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	78	80	81
Total Lumens, 4' rail length (1219mm)	2985	3079	3142	3173
Lumens per foot (305mm)	746	770	785	793
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_SA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011217 (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-SA-WH

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

[MORE] square 3536, 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	3142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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_SA_WH.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	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205
5	1.260	1.260	1.380	1.380	1.380	1.515	1.635	1.635	1.635	1.755
10	0.750	0.885	1.005	1.005	1.005	1.005	1.125	1.125	1.260	1.260
15	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005
20	1.005	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.005
25	1.260	1.380	1.380	1.380	1.380	1.380	1.380	1.260	1.260	1.125
30	1.755	1.755	1.755	1.755	1.635	1.635	1.635	1.515	1.380	1.380
35	2.010	2.010	2.010	2.010	2.010	1.890	1.890	1.635	1.635	1.635
40	2.520	2.520	2.385	2.385	2.265	2.145	2.145	2.010	1.890	1.755
45	2.760	2.760	2.760	2.760	2.640	2.520	2.385	2.265	2.145	2.010
50	3.015	3.015	3.015	3.015	2.895	2.895	2.640	2.640	2.385	2.265
55	3.270	3.390	3.390	3.270	3.270	3.150	2.895	2.895	2.640	2.385
60	3.780	3.645	3.645	3.525	3.525	3.390	3.150	3.150	2.895	2.640
65	4.020	3.900	3.900	3.780	3.645	3.645	3.390	3.270	3.150	2.760
70	4.020	4.020	4.020	4.020	3.900	3.780	3.645	3.390	3.150	3.015
75	4.275	4.275	4.275	4.275	4.155	3.900	3.900	3.645	3.390	3.150
80	4.530	4.530	4.530	4.395	4.275	4.155	3.900	3.645	3.525	3.270
85	4.530	4.530	4.530	4.530	4.395	4.275	4.155	3.900	3.645	3.390
90	4.785	4.785	4.785	4.650	4.530	4.395	4.155	3.900	3.780	3.525
95	4.785	4.785	4.785	4.785	4.650	4.395	4.395	4.155	3.900	3.525
100	5.025	5.025	5.025	4.905	4.785	4.650	4.395	4.155	4.020	3.780
105	5.280	5.280	5.160	5.025	4.905	4.905	4.650	4.395	4.155	3.900
110	5.280	5.280	5.280	5.280	5.160	4.905	4.650	4.530	4.275	4.020
115	5.535	5.400	5.400	5.280	5.160	5.025	4.905	4.650	4.395	4.155
120	5.535	5.535	5.400	5.280	5.160	5.160	4.905	4.650	4.395	4.155
125	5.535	5.535	5.400	5.280	5.160	5.025	4.905	4.650	4.395	4.275
130	5.280	5.280	5.280	5.160	5.160	4.905	4.785	4.650	4.275	4.155
135	5.280	5.160	5.025	5.025	4.905	4.785	4.650	4.395	4.395	4.275
140	5.025	4.905	4.905	4.785	4.785	4.530	4.530	4.530	4.395	4.275
145	4.785	4.785	4.650	4.650	4.395	4.395	4.530	4.650	4.530	4.530
150	4.530	4.530	4.530	4.155	4.275	4.395	4.530	4.785	4.785	4.785
155	4.275	4.275	4.155	3.900	4.155	4.395	4.650	4.785	4.785	4.650
160	4.020	4.020	3.525	3.645	4.020	4.530	4.785	4.650	4.530	4.395
165	3.525	3.150	3.270	3.645	4.395	4.530	4.785	5.160	5.655	6.420
170	4.275	5.025	5.160	6.915	7.290	7.920	8.430	9.060	9.435	9.930
175	6.540	7.290	8.550	9.675	9.675	9.930	9.930	10.065	10.185	10.185
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	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205
5	1.755	2.265	3.270	4.905	7.170	10.065	13.950	18.360	22.890	27.795
10	1.380	1.515	1.515	1.635	1.755	2.145	5.535	12.570	22.755	34.200
15	1.005	1.260	1.260	1.515	1.515	1.515	1.890	7.425	22.005	39.735
20	1.005	1.005	1.005	1.125	1.260	1.515	1.635	3.780	21.255	44.895
25	1.125	1.125	1.125	1.005	1.125	1.380	1.515	1.890	20.625	50.295
30	1.380	1.260	1.125	1.125	1.125	1.125	1.380	1.635	19.365	54.570
35	1.380	1.380	1.380	1.125	1.125	1.125	1.260	1.515	18.105	57.330
40	1.635	1.515	1.380	1.380	1.125	1.125	1.125	1.515	18.225	61.110
45	1.755	1.635	1.515	1.380	1.260	1.125	1.125	1.380	16.605	63.630
50	2.010	1.755	1.635	1.515	1.380	1.125	1.125	1.260	13.710	66.015
55	2.265	2.010	1.755	1.515	1.380	1.260	1.125	1.125	11.940	69.780
60	2.385	2.145	1.890	1.755	1.515	1.260	1.125	1.125	9.930	70.785

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_SA_WH.IES

CANDELA TABULATION - (Cont.)

65	2.520	2.265	2.010	1.755	1.515	1.380	1.125	1.125	8.295	71.415
70	2.760	2.520	2.265	1.890	1.635	1.515	1.260	1.125	6.420	71.790
75	2.760	2.520	2.265	2.010	1.755	1.515	1.260	1.125	4.530	71.415
80	3.015	2.640	2.265	2.010	1.755	1.515	1.260	1.125	5.025	68.520
85	3.015	2.760	2.385	2.010	1.755	1.515	1.260	1.125	3.780	67.140
90	3.150	2.760	2.520	2.145	1.755	1.515	1.380	1.125	2.520	65.385
95	3.270	3.015	2.520	2.265	2.010	1.755	1.515	1.260	1.890	65.640
100	3.525	3.015	2.760	2.265	2.010	1.755	1.515	1.380	1.890	63.630
105	3.525	3.270	2.895	2.520	2.265	1.890	1.635	1.515	2.145	60.480
110	3.780	3.390	3.015	2.520	2.265	2.010	1.890	1.755	2.640	54.060
115	3.780	3.390	3.150	2.760	2.385	2.265	2.010	2.010	3.150	42.375
120	3.900	3.645	3.150	2.895	2.640	2.265	2.145	2.640	3.645	32.940
125	3.900	3.645	3.270	3.015	2.760	2.520	2.385	3.270	4.155	26.655
130	3.900	3.645	3.390	3.150	2.895	2.760	2.895	3.900	4.530	22.380
135	4.020	3.900	3.645	3.270	3.015	2.895	3.645	4.395	4.905	18.990
140	4.275	4.155	3.780	3.525	3.150	3.390	4.530	4.905	5.400	16.215
145	4.530	4.155	3.900	3.525	3.390	4.395	5.160	5.280	5.655	13.335
150	4.530	4.275	4.020	4.020	4.650	6.165	6.030	6.165	6.660	13.080
155	4.530	4.275	4.650	5.400	6.660	7.035	6.915	7.170	7.665	12.945
160	4.785	5.400	6.540	7.665	7.920	7.665	7.800	8.055	8.550	12.075
165	7.425	8.430	8.925	8.805	8.550	8.550	8.805	9.060	9.300	10.935
170	10.065	9.930	9.675	9.555	9.675	9.675	9.930	10.185	10.440	11.070
175	10.065	10.065	10.185	10.305	10.440	10.695	10.935	10.935	11.190	11.310
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	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205	23.205
5	32.685	37.470	42.255	47.145	51.555	55.950	60.105	63.750	67.395	70.665
10	45.015	55.950	66.885	77.205	87.645	97.200	106.620	115.935	123.975	131.520
15	56.715	73.425	90.660	107.505	123.600	139.185	155.415	169.740	183.075	195.645
20	67.905	90.660	114.045	137.550	159.930	181.935	203.565	225.075	244.185	262.545
25	78.840	107.505	137.550	167.865	197.160	225.945	255.615	282.900	308.310	332.700
30	88.650	128.370	159.435	196.650	232.860	269.205	304.275	339.495	371.670	402.225
35	98.070	138.180	181.185	223.935	269.325	312.075	354.195	396.195	435.045	473.655
40	105.375	152.775	201.930	251.595	304.410	354.075	403.230	454.155	498.300	540.030
45	121.845	165.720	220.800	275.985	335.835	392.040	448.500	501.315	556.125	604.920
50	124.230	178.920	237.900	299.130	365.265	427.635	489.870	550.095	608.565	664.635
55	126.750	189.480	253.230	319.365	391.410	459.570	512.625	593.595	656.970	718.455
60	131.025	197.790	265.425	338.475	410.910	483.450	553.740	628.800	696.705	762.840
65	134.670	204.705	278.130	352.695	428.880	503.190	579.270	657.975	729.270	798.555
70	137.310	207.585	284.040	361.485	443.220	514.890	604.410	681.360	755.040	826.335
75	138.690	210.855	289.320	368.910	455.160	521.055	614.850	695.955	771.015	846.075
80	136.545	212.490	292.080	373.065	460.695	524.820	622.515	706.890	781.950	852.870
85	135.915	212.370	292.965	374.310	462.585	535.890	625.035	709.530	784.350	855.135
90	134.280	213.000	290.955	372.300	460.200	524.325	621.765	702.990	777.810	849.855
95	134.160	209.985	287.310	367.905	454.665	520.680	614.220	694.320	767.865	838.665
100	131.145	205.575	281.655	363.120	443.340	515.265	599.385	679.980	752.160	820.935
105	127.245	197.790	276.375	353.325	431.145	508.350	585.180	661.125	730.905	797.670
110	122.715	190.995	264.675	338.865	418.455	493.260	566.700	637.605	704.370	768.375
115	118.815	183.075	253.485	324.405	400.590	471.630	525.825	608.820	674.325	733.170
120	110.520	172.380	240.150	307.170	378.975	445.980	511.500	577.005	636.480	691.545
125	83.235	152.010	215.640	277.755	346.530	412.920	478.050	526.200	593.985	645.150
130	69.660	131.025	191.250	246.945	307.050	365.265	424.740	487.605	545.070	594.360
135	54.315	113.790	164.595	217.275	270.075	320.250	371.295	424.605	477.045	530.355

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_SA_WH.IES

CANDELA TABULATION - (Cont.)

140	43.890	86.760	138.690	186.210	234.000	276.750	320.370	365.145	408.645	453.660
145	36.090	64.755	109.140	149.625	195.150	243.675	278.010	310.065	344.775	381.105
150	32.565	54.945	83.370	120.585	155.655	197.280	239.400	268.065	291.075	314.595
155	27.660	47.145	67.515	91.410	122.475	149.625	181.695	216.765	239.145	258.135
160	22.755	38.730	54.945	72.045	87.510	106.995	131.640	153.270	175.155	191.745
165	17.475	28.290	41.865	54.315	66.645	77.460	88.395	98.955	110.145	125.985
170	13.575	18.855	26.790	35.955	44.010	51.810	57.840	65.130	71.415	75.195
175	11.820	12.825	14.835	17.355	20.490	24.645	28.170	31.560	33.825	36.465
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	23.205	23.205	23.205	23.205	23.205	23.205	23.205
5	73.425	76.200	78.090	79.590	80.595	81.105	81.225
10	138.435	144.225	148.995	153.015	155.535	157.050	157.425
15	206.955	216.525	224.685	231.225	235.500	238.020	238.650
20	278.880	292.710	304.785	314.085	320.130	323.775	325.155
25	354.570	373.185	389.400	402.105	410.655	415.935	417.450
30	430.020	453.660	474.150	490.125	499.680	506.970	508.980
35	500.550	533.370	557.520	577.260	591.090	600.135	603.030
40	578.895	614.340	643.395	667.665	684.765	695.580	698.835
45	649.425	690.165	724.620	751.275	770.640	783.330	786.855
50	716.070	760.200	798.555	828.345	850.485	864.435	869.085
55	774.285	822.690	865.575	898.890	923.655	938.625	943.530
60	822.690	874.365	919.755	956.100	981.615	997.335	1003.125
65	861.540	915.990	963.510	1001.370	1027.635	1043.730	1049.640
70	891.600	947.550	995.205	1034.310	1062.720	1079.700	1085.355
75	910.200	967.035	1015.320	1054.170	1082.205	1100.070	1105.725
80	917.370	976.215	1024.755	1063.860	1092.015	1109.880	1115.280
85	919.260	978.105	1027.140	1064.610	1092.390	1110.375	1116.540
90	915.360	971.055	1019.970	1057.185	1084.725	1102.200	1107.735
95	902.790	957.855	1005.765	1043.100	1069.770	1086.480	1092.150
100	883.680	937.365	984.015	1021.110	1046.880	1062.975	1068.255
105	858.150	910.200	955.590	991.680	1016.835	1032.540	1037.325
110	826.470	876.255	918.630	953.325	978.855	994.320	999.105
115	788.235	835.515	875.760	908.445	932.085	947.295	951.825
120	742.095	786.105	826.080	856.140	877.770	892.350	896.505
125	691.920	734.175	769.755	797.040	817.410	830.865	834.630
130	638.370	675.585	708.270	733.545	751.905	764.100	767.490
135	578.265	611.835	641.250	664.260	680.490	691.170	694.320
140	498.045	543.810	569.580	590.085	604.410	613.470	616.605
145	419.205	459.195	498.675	514.140	526.335	534.135	536.385
150	343.635	373.815	407.895	439.695	450.255	456.795	458.685
155	271.590	293.475	318.120	350.430	369.285	374.310	375.945
160	205.335	214.260	231.600	252.735	283.665	290.070	291.705
165	137.550	144.855	147.990	159.690	175.155	197.400	198.405
170	78.705	81.855	81.105	78.090	84.375	98.205	112.905
175	38.220	38.730	39.360	36.960	33.315	33.825	47.535
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_SA_WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	26.93	N.A.	0.90
0-30	88.46	N.A.	2.80
0-40	205.04	N.A.	6.50
0-60	637.66	N.A.	20.30
0-80	1287.58	N.A.	41.00
0-90	1646.26	N.A.	52.40
10-90	1642.47	N.A.	52.30
20-40	178.11	N.A.	5.70
20-50	360.99	N.A.	11.50
40-70	738.87	N.A.	23.50
60-80	649.92	N.A.	20.70
70-80	343.67	N.A.	10.90
80-90	358.68	N.A.	11.40
90-110	676.73	N.A.	21.50
90-120	956.94	N.A.	30.50
90-130	1178.47	N.A.	37.50
90-150	1430.1	N.A.	45.50
90-180	1495.73	N.A.	47.60
110-180	819.00	N.A.	26.10
0-180	3141.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.79
10-20	23.14
20-30	61.52
30-40	116.59
40-50	182.88
50-60	249.74
60-70	306.25
70-80	343.67
80-90	358.68
90-100	351.76
100-110	324.97
110-120	280.21
120-130	221.53
130-140	156.22
140-150	95.41
150-160	47.75
160-170	15.81
170-180	2.07

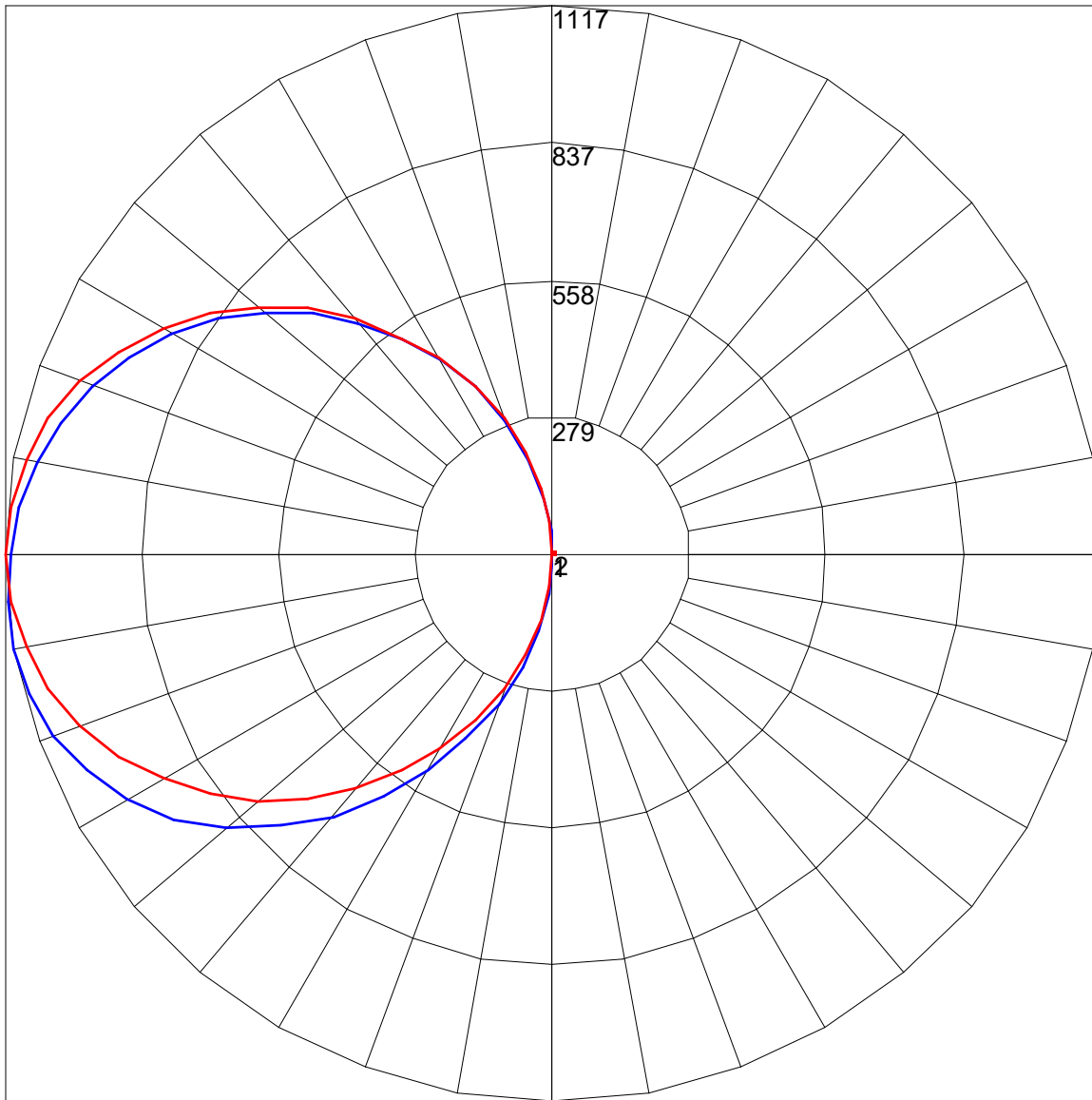
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 PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_SA_WH.IES

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	92	86	79	74	85	79	73	68	65	61	57	53	50	47	42	40	37	32
2	82	71	63	56	74	65	58	51	54	48	43	43	39	35	34	30	27	22
3	73	61	51	44	66	56	47	40	46	39	33	36	31	27	28	24	20	16
4	66	53	43	35	60	48	39	32	39	32	27	31	26	21	24	20	16	12
5	60	46	36	29	54	42	33	27	34	27	22	27	22	17	21	16	13	9
6	55	41	31	24	50	37	29	22	31	24	18	24	19	14	18	14	11	8
7	50	36	27	21	46	33	25	19	27	20	16	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	12	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 = 1116.54 Located At Horizontal Angle = 180, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)