

IES Report

ZipTwo® | 707 | Square 3536/30, Soft Wash | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-A3-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	79	81	82
Total Lumens, 4' rail length (1219mm)	1135	1171	1195	1207
Lumens per foot (305mm)	284	293	299	302
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_A3_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L092011501 (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-A3-WH

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

[MORE] square 3536/30, soft wash lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1195
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.74
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7151	6980	6594
55	6902	6728	6275
65	6642	6455	5924
75	6383	6164	5466
85	6116	5879	4997

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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	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930
5	370.585	370.505	370.375	370.000	369.540	368.825	368.115	367.235	366.270	365.095
10	389.365	389.235	388.690	387.855	386.805	385.425	383.745	381.695	379.555	376.915
15	403.780	403.615	402.815	401.600	399.885	397.580	395.020	391.880	388.315	384.545
20	413.840	413.590	412.540	410.865	408.645	405.540	402.060	397.915	393.135	388.020
25	419.035	418.700	417.485	415.390	412.580	408.810	404.575	399.295	393.470	387.185
30	419.705	419.080	417.655	415.225	411.955	407.595	402.565	396.445	389.655	382.280
35	415.430	414.845	413.085	410.445	406.755	401.935	396.195	389.405	381.860	373.310
40	406.715	406.085	404.160	401.310	397.325	391.960	385.590	378.300	370.165	360.865
45	393.975	393.305	391.415	388.275	384.000	378.340	371.465	363.795	354.995	345.020
50	377.795	377.165	375.070	371.845	367.400	361.450	354.200	346.070	337.100	326.830
55	358.765	358.140	355.960	352.520	347.955	341.875	334.750	326.075	316.225	305.580
60	337.560	336.845	334.710	331.230	326.370	320.080	312.665	303.780	293.720	282.695
65	314.090	313.335	311.280	307.800	302.775	296.400	288.775	279.805	269.410	258.390
70	289.110	288.355	286.220	282.655	277.460	271.130	263.500	254.320	243.970	232.695
75	262.705	262.035	259.730	256.125	251.095	244.725	237.095	228.125	217.400	206.000
80	235.295	234.625	232.275	228.715	223.560	217.190	209.265	200.300	190.195	178.670
85	206.545	205.745	203.485	200.005	195.060	188.355	180.725	171.295	162.705	151.640
90	176.955	176.240	173.975	170.625	166.350	159.935	152.560	143.675	133.995	122.885
95	147.950	147.235	145.100	141.665	136.970	130.765	123.600	114.965	105.285	94.975
100	117.940	117.310	115.215	111.905	107.380	101.555	94.680	86.550	77.410	67.645
105	88.265	87.720	85.795	82.650	78.420	72.925	66.515	58.970	50.460	41.450
110	59.765	59.265	57.420	54.570	50.670	45.600	39.735	32.775	24.980	16.725
115	32.610	32.020	30.385	27.790	24.310	19.700	14.375	8.090	2.265	0.000
120	7.125	6.620	5.240	3.185	1.175	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930
5	363.920	362.665	361.200	359.775	358.350	356.755	355.165	353.530	352.060	350.300
10	374.190	371.300	368.195	364.805	361.535	358.015	354.410	350.890	347.365	343.555
15	380.270	375.825	370.965	365.850	360.780	355.540	349.880	344.475	339.150	333.450
20	382.280	376.370	369.915	363.085	356.210	349.255	341.835	334.670	327.500	319.955
25	380.140	372.850	364.885	356.505	348.120	339.655	330.265	321.425	312.620	303.360
30	374.065	365.390	356.045	346.320	336.640	326.580	315.680	305.370	295.105	284.375
35	364.050	354.365	343.970	332.910	321.885	310.105	298.330	286.680	275.070	263.040
40	350.510	340.115	328.675	316.480	304.325	291.540	278.505	265.765	253.150	239.905
45	334.250	322.930	310.445	297.490	284.415	270.625	256.670	243.130	229.425	215.300
50	315.010	303.025	289.990	276.240	262.495	248.035	233.240	218.780	204.490	189.525
55	293.680	281.190	267.565	253.400	239.065	224.315	208.930	193.465	178.585	163.875
60	270.415	257.340	243.760	229.470	214.255	199.000	183.280	168.405	152.730	136.885

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CANDELA TABULATION - (Cont.)

65	245.980	232.485	218.615	204.030	188.435	172.260	157.590	141.955	125.945	110.105
70	220.375	206.880	192.460	175.025	162.705	146.690	130.975	115.300	99.460	84.285
75	193.760	180.180	166.390	151.220	136.090	120.205	104.655	89.230	73.345	59.055
80	167.060	153.565	139.230	124.310	109.435	93.925	78.460	63.580	48.700	36.800
85	139.230	125.990	112.115	97.530	83.240	68.400	53.605	39.525	25.820	12.575
90	110.900	98.495	85.165	71.460	57.925	44.260	30.430	16.680	3.900	0.000
95	83.530	71.795	59.180	46.230	33.530	20.745	7.630	0.000	0.000	0.000
100	56.915	45.980	34.240	22.170	10.270	1.050	0.000	0.000	0.000	0.000
105	31.560	21.415	10.560	1.510	0.000	0.000	0.000	0.000	0.000	0.000
110	7.670	0.965	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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

	100	105	110	115	120	125	130	135	140	145
0	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930	352.930
5	348.710	347.075	345.525	344.100	342.675	341.540	340.200	338.985	337.895	336.930
10	340.115	336.640	333.200	329.975	326.915	323.895	321.130	318.405	316.060	313.920
15	328.090	322.640	317.610	312.495	307.800	303.360	299.125	295.060	291.540	288.270
20	312.915	305.705	298.960	292.210	286.090	280.265	274.815	269.410	264.840	260.565
25	294.725	286.300	277.795	269.660	262.245	255.245	248.665	242.210	236.720	231.650
30	274.230	264.090	254.700	245.310	236.635	228.505	221.000	213.670	207.425	201.595
35	251.810	240.490	229.845	219.370	209.730	200.760	192.420	184.245	177.290	171.000
40	227.585	215.175	203.565	192.545	181.900	172.215	162.955	154.490	147.110	140.240
45	202.060	188.855	176.450	164.925	153.690	143.380	133.615	124.770	116.975	109.770
50	175.610	161.780	149.080	136.885	125.150	114.630	104.615	95.390	87.385	80.135
55	149.460	135.125	122.005	109.265	97.780	86.715	76.910	67.645	59.515	52.055
60	122.300	108.345	94.345	82.065	70.705	59.935	50.085	40.570	32.650	25.275
65	95.475	81.730	68.445	56.370	44.385	33.990	24.350	15.215	7.375	1.260
70	70.035	56.245	43.420	31.730	19.990	9.765	1.845	0.000	0.000	0.000
75	45.390	32.315	19.865	8.425	0.000	0.000	0.000	0.000	0.000	0.000
80	22.215	9.555	0.755	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	1.930	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_A3_WH.IES

CANDELA TABULATION - (Cont.)

140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	352.930	352.930	352.930	352.930	352.930	352.930	352.930
5	336.095	335.295	334.670	334.205	333.830	333.620	333.535
10	311.995	310.400	309.020	308.010	307.175	306.795	306.630
15	285.380	283.030	281.020	279.470	278.295	277.710	277.375
20	256.920	253.905	251.430	249.335	247.910	246.990	246.695
25	227.290	223.600	220.500	218.025	216.265	215.260	214.840
30	196.485	192.375	188.690	185.965	183.950	182.780	182.485
35	165.510	160.860	156.920	153.860	151.720	150.425	149.960
40	134.245	129.300	125.110	121.840	119.535	118.190	117.690
45	103.525	98.325	93.965	90.530	88.140	86.675	86.255
50	73.725	68.445	63.915	60.395	58.050	56.500	56.080
55	45.600	40.740	35.875	32.400	29.965	28.460	27.995
60	18.820	13.580	9.180	5.700	3.355	2.010	1.675
65	0.755	0.755	0.755	0.755	0.755	0.755	0.755
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	129.34	N.A.	10.80
0-30	274.37	N.A.	23.00
0-40	448.79	N.A.	37.60
0-60	796.63	N.A.	66.70
0-80	1043.5	N.A.	87.30
0-90	1120.24	N.A.	93.80
10-90	1086.79	N.A.	91.00
20-40	319.46	N.A.	26.70
20-50	500.63	N.A.	41.90
40-70	486.53	N.A.	40.70
60-80	246.87	N.A.	20.70
70-80	108.18	N.A.	9.10
80-90	76.74	N.A.	6.40
90-110	69.02	N.A.	5.80
90-120	74.53	N.A.	6.20
90-130	74.65	N.A.	6.20
90-150	74.65	N.A.	6.20
90-180	74.65	N.A.	6.20
110-180	5.63	N.A.	0.50
0-180	1194.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.46
10-20	95.88
20-30	145.03
30-40	174.43
40-50	181.18
50-60	166.66
60-70	138.69
70-80	108.18
80-90	76.74
90-100	46.94
100-110	22.08
110-120	5.51
120-130	0.13
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

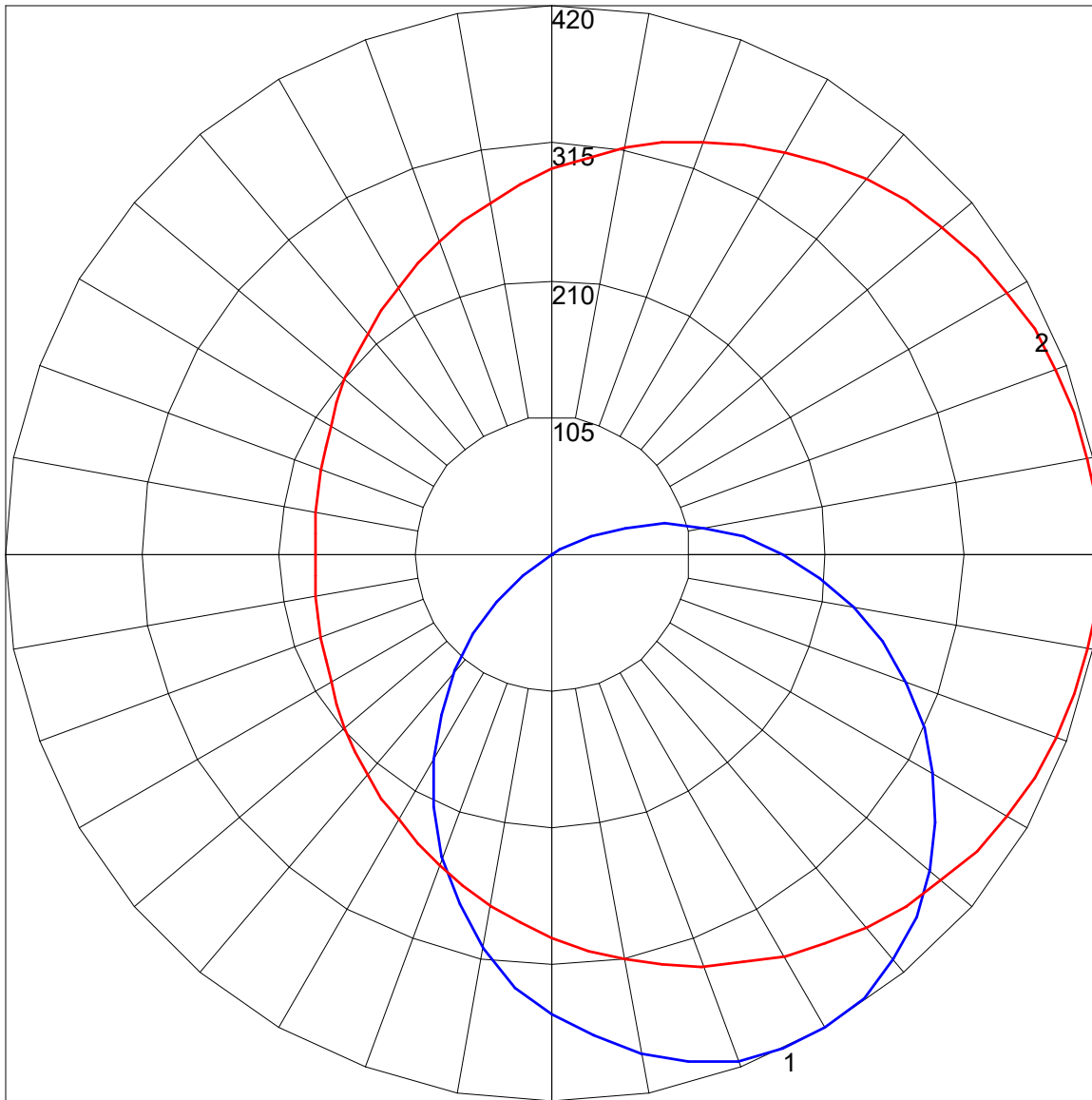
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74
2	95	86	78	72	92	83	76	70	79	73	68	74	69	65	70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	62	57	53	50
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	42
5	72	59	49	42	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	23	32	26	22	20

POLAR GRAPH



Maximum Candela = 419.705 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)