

IES Report

DoubleRace™ | 107 | 120° Batwing, Flat, up | Diffuse, Round, down | 80 CRI | SO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	134	138	141	141
Total Lumens, 4' rail length (1219mm)	6383	6584	6719	6719
Lumens per foot (305mm)	1596	1646	1680	1680
Lumens per foot UP (305mm)	756	780	796	796
Lumens per foot DOWN (305mm)	840	866	884	884
Input Power (W), 4' rail length (1219mm)	47.8	47.8	47.8	47.8
Watts per foot (305mm)	12.0	12.0	12.0	12.0
CRI	82	82	82	82

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_107_DR_SO_35_G12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911515 / L121911517 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-DR-48-Z-SO-35-G12-AL

[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board, 120° batwing lens up /

[MORE] round diffuse lens down, standard output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6719
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	47.84
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	Rectangular w/Sides
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13687	17240	42360
55	9198	12169	35842
65	5536	7930	28482
75	3171	4694	20620
85	1852	2664	12375

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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	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360
5	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880
10	1309.640	1309.640	1309.640	1309.640	1309.640	1309.640	1308.480	1308.480	1308.480	1308.480
15	1280.640	1281.800	1280.640	1280.640	1280.640	1279.480	1279.480	1279.480	1279.480	1278.320
20	1241.200	1241.200	1241.200	1241.200	1240.040	1238.880	1237.720	1237.720	1236.560	1235.400
25	1189.000	1189.000	1189.000	1187.840	1186.680	1185.520	1184.360	1183.200	1182.040	1179.720
30	1124.040	1124.040	1124.040	1122.880	1121.720	1120.560	1118.240	1115.920	1113.600	1111.280
35	1044.000	1044.000	1044.000	1044.000	1042.840	1042.840	1040.520	1038.200	1034.720	1031.240
40	944.240	944.240	945.400	946.560	946.560	947.720	947.720	946.560	944.240	940.760
45	829.400	830.560	831.720	832.880	835.200	837.520	839.840	841.000	839.840	837.520
50	711.080	711.080	712.240	714.560	718.040	720.360	723.840	725.000	726.160	725.000
55	589.280	589.280	591.600	595.080	598.560	603.200	607.840	610.160	611.320	610.160
60	469.800	470.960	473.280	477.920	482.560	488.360	494.160	498.800	501.120	501.120
65	363.080	364.240	366.560	370.040	375.840	381.640	387.440	393.240	396.720	397.880
70	276.080	276.080	278.400	281.880	286.520	291.160	296.960	301.600	303.920	305.080
75	206.480	206.480	208.800	211.120	214.600	219.240	222.720	226.200	228.520	228.520
80	155.440	155.440	156.600	158.920	161.240	164.720	167.040	169.360	170.520	169.360
85	116.000	116.000	117.160	118.320	120.640	121.800	124.120	124.120	124.120	121.800
90	88.160	88.160	88.160	89.320	90.480	90.480	91.640	91.640	90.480	87.000
95	139.722	139.722	139.571	139.328	138.794	139.130	136.706	135.152	130.744	123.760
100	230.933	230.979	231.316	231.513	231.362	230.098	226.270	220.678	211.166	197.815
105	342.328	342.188	342.130	341.898	339.660	337.432	332.085	323.385	310.033	291.090
110	465.485	465.438	465.148	464.267	460.775	457.086	449.210	436.241	418.122	394.261
115	592.134	592.029	590.765	588.828	583.770	575.952	564.920	549.028	526.246	497.280
120	713.609	712.785	710.836	707.090	700.106	689.318	675.897	654.901	628.662	595.115
125	822.440	821.373	818.357	812.870	803.439	790.900	773.349	749.928	719.107	679.934
130	913.280	912.120	908.176	901.610	891.506	876.670	855.720	829.040	793.556	749.998
135	986.510	984.852	980.188	971.825	957.974	940.284	916.504	884.187	845.826	799.646
140	1032.504	1030.416	1023.955	1013.689	997.612	976.697	949.959	915.542	876.020	830.850
145	1046.320	1043.698	1036.750	1025.266	1009.130	986.093	958.334	921.121	882.946	839.341
150	1030.579	1028.386	1021.438	1009.722	993.575	972.231	941.874	911.145	875.858	837.590
155	985.292	983.494	976.836	966.187	951.548	932.594	909.881	883.433	854.166	822.278
160	922.966	921.260	915.820	907.166	895.253	879.988	862.240	842.798	821.257	799.136
165	849.352	848.146	844.840	839.538	832.091	822.765	812.162	800.052	787.315	773.952
170	785.958	785.424	783.916	781.098	777.699	773.511	768.500	763.106	757.422	751.193
175	743.757	743.514	743.026	742.446	741.762	740.602	739.430	738.073	736.658	735.254
180	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533

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	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360
5	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1327.040	1325.880
10	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480
15	1277.160	1277.160	1276.000	1276.000	1274.840	1276.000	1274.840	1274.840	1276.000	1274.840
20	1234.240	1233.080	1230.760	1230.760	1229.600	1228.440	1228.440	1227.280	1228.440	1227.280
25	1177.400	1175.080	1172.760	1170.440	1169.280	1166.960	1166.960	1166.960	1166.960	1166.960
30	1107.800	1104.320	1100.840	1097.360	1095.040	1091.560	1090.400	1089.240	1089.240	1089.240
35	1027.760	1021.960	1017.320	1011.520	1006.880	1003.400	999.920	998.760	998.760	998.760
40	934.960	928.000	921.040	914.080	907.120	902.480	897.840	895.520	894.360	895.520
45	831.720	824.760	815.480	807.360	799.240	791.120	785.320	781.840	781.840	781.840
50	720.360	714.560	705.280	694.840	684.400	675.120	668.160	663.520	663.520	663.520
55	606.680	600.880	592.760	581.160	570.720	560.280	552.160	547.520	546.360	547.520
60	497.640	490.680	481.400	472.120	460.520	448.920	439.640	435.000	432.680	435.000

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CANDELA TABULATION - (Cont.)

65	395.560	388.600	380.480	368.880	357.280	345.680	336.400	330.600	329.440	330.600
70	303.920	298.120	290.000	278.400	265.640	254.040	243.600	237.800	235.480	237.800
75	226.200	220.400	212.280	201.840	189.080	176.320	165.880	158.920	155.440	158.920
80	165.880	160.080	150.800	139.200	126.440	113.680	102.080	93.960	91.640	93.960
85	118.320	111.360	102.080	91.640	78.880	64.960	53.360	44.080	40.600	44.080
90	82.360	76.560	67.280	56.840	45.240	33.640	22.040	11.600	4.640	11.600
95	113.773	101.848	87.742	73.219	60.482	49.114	39.974	34.800	32.376	34.800
100	180.635	162.435	142.297	124.108	110.478	98.414	90.422	86.733	83.822	86.733
105	268.064	241.941	215.864	191.098	172.701	159.593	150.812	145.220	143.225	145.220
110	364.101	330.078	296.171	265.072	242.138	224.889	212.848	206.631	204.392	206.631
115	460.195	419.572	378.206	339.764	311.228	287.773	274.688	266.870	264.097	266.870
120	551.626	504.658	455.277	410.710	376.919	349.810	333.372	323.698	320.392	323.698
125	632.815	580.325	526.849	476.922	435.719	406.638	387.579	376.350	372.801	376.350
130	697.160	642.164	586.415	534.783	490.599	459.047	437.703	425.407	421.324	425.407
135	747.179	690.594	631.887	580.650	539.365	506.897	484.915	472.027	467.608	472.027
140	778.696	726.090	670.294	621.284	581.960	551.035	529.401	516.618	512.140	516.618
145	792.814	745.172	698.007	654.344	619.486	590.858	571.022	559.016	554.921	559.016
150	797.094	756.111	717.019	681.036	651.189	627.119	609.568	598.978	595.382	598.978
155	789.798	758.396	728.492	700.686	677.788	658.671	644.821	636.074	633.198	636.074
160	776.191	755.032	733.793	714.340	698.297	685.119	675.108	668.740	666.652	668.740
165	760.194	747.458	734.906	723.341	713.760	705.593	699.515	695.675	694.457	695.675
170	745.068	738.990	733.596	728.004	723.828	719.745	717.216	715.558	715.070	715.558
175	733.688	732.238	730.823	729.756	728.782	728.004	727.517	727.134	727.134	727.134
180	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360
5	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880
10	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480	1308.480
15	1274.840	1276.000	1274.840	1276.000	1276.000	1277.160	1277.160	1278.320	1279.480	1279.480
20	1228.440	1228.440	1229.600	1230.760	1230.760	1233.080	1234.240	1235.400	1236.560	1237.720
25	1166.960	1166.960	1169.280	1170.440	1172.760	1175.080	1177.400	1179.720	1182.040	1183.200
30	1090.400	1091.560	1095.040	1097.360	1100.840	1104.320	1107.800	1111.280	1113.600	1115.920
35	999.920	1003.400	1006.880	1011.520	1017.320	1021.960	1027.760	1031.240	1034.720	1038.200
40	897.840	902.480	907.120	914.080	921.040	928.000	934.960	940.760	944.240	946.560
45	785.320	791.120	799.240	807.360	815.480	824.760	831.720	837.520	839.840	841.000
50	668.160	675.120	684.400	694.840	705.280	714.560	720.360	725.000	726.160	725.000
55	552.160	560.280	570.720	581.160	592.760	600.880	606.680	610.160	611.320	610.160
60	439.640	448.920	460.520	472.120	481.400	490.680	497.640	501.120	501.120	498.800
65	336.400	345.680	357.280	368.880	380.480	388.600	395.560	397.880	396.720	393.240
70	243.600	254.040	265.640	278.400	290.000	298.120	303.920	305.080	303.920	301.600
75	165.880	176.320	189.080	201.840	212.280	220.400	226.200	228.520	228.520	226.200
80	102.080	113.680	126.440	139.200	150.800	160.080	165.880	169.360	170.520	169.360
85	53.360	64.960	78.880	91.640	102.080	111.360	118.320	121.800	124.120	124.120
90	22.040	33.640	45.240	56.840	67.280	76.560	82.360	87.000	90.480	91.640
95	39.974	49.114	60.482	73.219	87.742	101.848	113.773	123.760	130.744	135.152
100	90.422	98.414	110.478	124.108	142.297	162.435	180.635	197.815	211.166	220.678
105	150.812	159.593	172.701	191.098	215.864	241.941	268.064	291.090	310.033	323.385
110	212.848	224.889	242.138	265.072	296.171	330.078	364.101	394.261	418.122	436.241
115	274.688	287.773	311.228	339.764	378.206	419.572	460.195	497.280	526.246	549.028
120	333.372	349.810	376.919	410.710	455.277	504.658	551.626	595.115	628.662	654.901
125	387.579	406.638	435.719	476.922	526.849	580.325	632.815	679.934	719.107	749.928
130	437.703	459.047	490.599	534.783	586.415	642.164	697.160	749.998	793.556	829.040
135	484.915	506.897	539.365	580.650	631.887	690.594	747.179	799.646	845.826	884.187

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CANDELA TABULATION - (Cont.)

140	529.401	551.035	581.960	621.284	670.294	726.090	778.696	830.850	876.020	915.542
145	571.022	590.858	619.486	654.344	698.007	745.172	792.814	839.341	882.946	921.121
150	609.568	627.119	651.189	681.036	717.019	756.111	797.094	837.590	875.858	911.145
155	644.821	658.671	677.788	700.686	728.492	758.396	789.798	822.278	854.166	883.433
160	675.108	685.119	698.297	714.340	733.793	755.032	776.191	799.136	821.257	842.798
165	699.515	705.593	713.760	723.341	734.906	747.458	760.194	773.952	787.315	800.052
170	717.216	719.745	723.828	728.004	733.596	738.990	745.068	751.193	757.422	763.106
175	727.517	728.004	728.782	729.756	730.823	732.238	733.688	735.254	736.658	738.073
180	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533	730.533

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360	1329.360
5	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880	1325.880
10	1308.480	1309.640	1309.640	1309.640	1309.640	1309.640	1309.640
15	1279.480	1279.480	1280.640	1280.640	1280.640	1281.800	1280.640
20	1237.720	1238.880	1240.040	1241.200	1241.200	1241.200	1241.200
25	1184.360	1185.520	1186.680	1187.840	1189.000	1189.000	1189.000
30	1118.240	1120.560	1121.720	1122.880	1124.040	1124.040	1124.040
35	1040.520	1042.840	1042.840	1044.000	1044.000	1044.000	1044.000
40	947.720	947.720	946.560	946.560	945.400	944.240	944.240
45	839.840	837.520	835.200	832.880	831.720	830.560	829.400
50	723.840	720.360	718.040	714.560	712.240	711.080	711.080
55	607.840	603.200	598.560	595.080	591.600	589.280	589.280
60	494.160	488.360	482.560	477.920	473.280	470.960	469.800
65	387.440	381.640	375.840	370.040	366.560	364.240	363.080
70	296.960	291.160	286.520	281.880	278.400	276.080	276.080
75	222.720	219.240	214.600	211.120	208.800	206.480	206.480
80	167.040	164.720	161.240	158.920	156.600	155.440	155.440
85	124.120	121.800	120.640	118.320	117.160	116.000	116.000
90	91.640	90.480	90.480	89.320	88.160	88.160	88.160
95	136.706	139.130	138.794	139.328	139.571	139.722	139.722
100	226.270	230.098	231.362	231.513	231.316	230.979	230.933
105	332.085	337.432	339.660	341.898	342.130	342.188	342.328
110	449.210	457.086	460.775	464.267	465.148	465.438	465.485
115	564.920	575.952	583.770	588.828	590.765	592.029	592.134
120	675.897	689.318	700.106	707.090	710.836	712.785	713.609
125	773.349	790.900	803.439	812.870	818.357	821.373	822.440
130	855.720	876.670	891.506	901.610	908.176	912.120	913.280
135	916.504	940.284	957.974	971.825	980.188	984.852	986.510
140	949.959	976.697	997.612	1013.689	1023.955	1030.416	1032.504
145	958.334	986.093	1009.130	1025.266	1036.750	1043.698	1046.320
150	941.874	972.231	993.575	1009.722	1021.438	1028.386	1030.579
155	909.881	932.594	951.548	966.187	976.836	983.494	985.292
160	862.240	879.988	895.253	907.166	915.820	921.260	922.966
165	812.162	822.765	832.091	839.538	844.840	848.146	849.352
170	768.500	773.511	777.699	781.098	783.916	785.424	785.958
175	739.430	740.602	741.762	742.446	743.026	743.514	743.757
180	730.533	730.533	730.533	730.533	730.533	730.533	730.533

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.55	N.A.	7.20
0-30	1029.08	N.A.	15.30
0-40	1669.73	N.A.	24.90
0-60	2829.36	N.A.	42.10
0-80	3421.71	N.A.	50.90
0-90	3536.19	N.A.	52.60
10-90	3410.2	N.A.	50.80
20-40	1183.18	N.A.	17.60
20-50	1815.44	N.A.	27.00
40-70	1530.61	N.A.	22.80
60-80	592.35	N.A.	8.80
70-80	221.37	N.A.	3.30
80-90	114.49	N.A.	1.70
90-110	404.21	N.A.	6.00
90-120	856.21	N.A.	12.70
90-130	1420.08	N.A.	21.10
90-150	2515.49	N.A.	37.40
90-180	3182.7	N.A.	47.40
110-180	2778.49	N.A.	41.40
0-180	6718.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.00
10-20	360.55
20-30	542.53
30-40	640.65
40-50	632.26
50-60	527.38
60-70	370.98
70-80	221.37
80-90	114.49
90-100	123.44
100-110	280.77
110-120	452.00
120-130	563.87
130-140	583.75
140-150	511.66
150-160	376.75
160-170	219.78
170-180	70.68

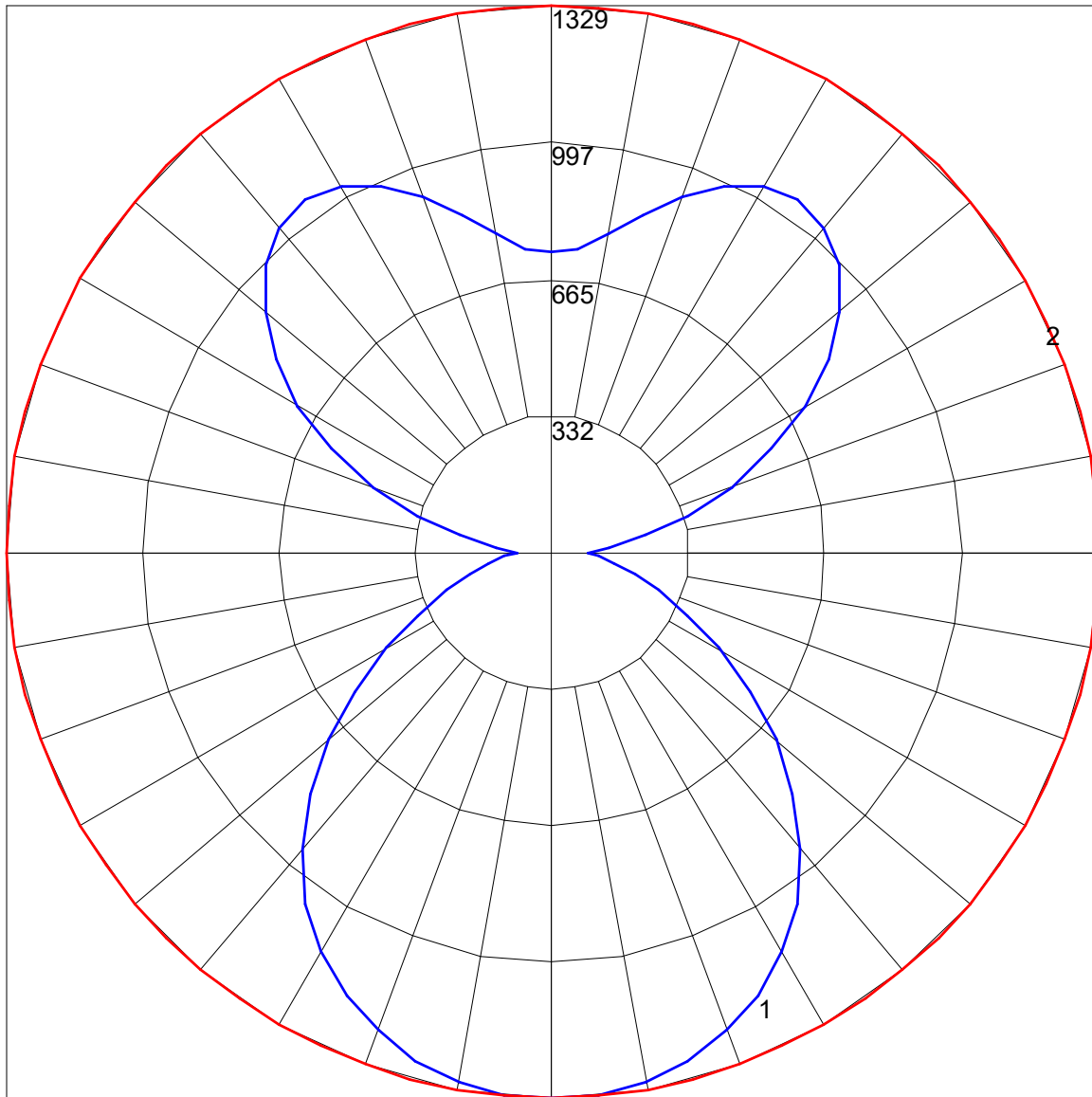
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_SO_35_G12.IES

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	94	90	86	91	87	83	80	74	72	69	62	60	59	51	50	49	44
2	89	82	76	70	82	76	71	66	65	61	57	55	52	49	45	43	41	37
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	38	35	31
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	27	23
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23	21
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	23	21	18
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19	16
9	51	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	17	21	18	15	13

POLAR GRAPH



Maximum Candela = 1329.36 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)