

IES Report

DoubleRace™ | 107 | Diffuse, Round, up | Diffuse, Round, down | 90 CRI | LO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-22-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	108	112	114	115
Total Lumens, 4' rail length (1219mm)	2983	3077	3140	3171
Lumens per foot (305mm)	746	769	785	793
Lumens per foot UP (305mm)	373	385	392	396
Lumens per foot DOWN (305mm)	373	385	392	396
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	7.0	7.0	7.0	7.0
CRI	94	94	94	94

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_LO_359_22.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911517 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-DR-48-Z-LO-359-22-AL

[LUMINAIRE] DoubleRace LED, 48", 3500K, 90 CRI, zipper board, round diffuse lens up /

[MORE] round diffuse lens down, low 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	3139
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	27.64
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	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5106	6499	18078
55	3425	4542	15236
65	2120	2983	12031
75	1343	1902	8601
85	1028	1412	5084

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_LO_359_22.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	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5
10	564.5	564.5	564.5	564.5	564.5	564.5	564.0	564.0	564.0	564.0
15	552.0	552.5	552.0	552.0	552.0	551.5	551.5	551.5	551.5	551.0
20	535.0	535.0	535.0	535.0	534.5	534.0	533.5	533.5	533.0	532.5
25	512.5	512.5	512.5	512.0	511.5	511.0	510.5	510.0	509.5	508.5
30	486.5	486.5	486.5	486.0	485.5	485.0	482.0	481.0	480.0	479.0
35	452.5	452.5	452.5	452.5	452.0	451.5	450.5	447.5	446.0	444.5
40	410.0	410.0	410.5	411.0	410.5	411.0	411.0	410.0	409.0	407.5
45	361.0	361.5	362.0	362.5	363.0	364.0	365.0	365.0	364.5	363.0
50	310.5	310.5	311.0	312.0	313.5	314.5	315.5	316.0	316.0	315.0
55	259.5	259.5	260.5	262.0	263.0	265.0	266.5	267.0	267.0	266.0
60	210.0	210.5	211.5	213.5	215.0	217.0	219.5	220.5	221.0	220.5
65	166.5	167.0	168.0	169.5	171.5	173.5	175.5	177.5	178.0	177.5
70	132.0	132.0	133.0	134.5	136.0	138.0	140.0	141.0	141.0	140.5
75	106.0	106.0	107.0	108.0	109.0	111.0	112.0	113.0	113.0	111.5
80	89.0	89.0	89.5	90.5	91.5	93.0	93.5	94.0	93.5	91.5
85	79.0	79.0	79.5	80.0	81.0	82.0	82.5	82.5	81.5	79.0
90	76.0	76.0	76.0	77.0	78.0	78.0	79.0	79.0	78.0	75.0
95	79.0	79.0	79.5	80.0	81.0	82.0	82.5	82.5	81.5	79.0
100	89.0	89.0	89.5	90.5	91.5	93.0	93.5	94.0	93.5	91.5
105	106.0	106.0	107.0	108.0	109.0	111.0	112.0	113.0	113.0	111.5
110	132.0	132.0	133.0	134.5	136.0	138.0	140.0	141.0	141.0	140.5
115	166.5	167.0	168.0	169.5	171.5	173.5	175.5	177.5	178.0	177.5
120	210.0	210.5	211.5	213.5	215.0	217.0	219.5	220.5	221.0	220.5
125	259.5	259.5	260.5	262.0	263.0	265.0	266.5	267.0	267.0	266.0
130	310.5	310.5	311.0	312.0	313.5	314.5	315.5	316.0	316.0	315.0
135	361.0	361.5	362.0	362.5	363.0	364.0	365.0	365.0	364.5	363.0
140	410.0	410.0	410.5	411.0	410.5	411.0	411.0	410.0	409.0	407.5
145	452.5	452.5	452.5	452.5	452.0	451.5	450.5	447.5	446.0	444.5
150	486.5	486.5	486.5	486.0	485.5	485.0	482.0	481.0	480.0	479.0
155	512.5	512.5	512.5	512.0	511.5	511.0	510.5	510.0	509.5	508.5
160	535.0	535.0	535.0	535.0	534.5	534.0	533.5	533.5	533.0	532.5
165	552.0	552.5	552.0	552.0	552.0	551.5	551.5	551.5	551.5	551.0
170	564.5	564.5	564.5	564.5	564.5	564.5	564.0	564.0	564.0	564.0
175	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5
180	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0

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	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	572.0	571.5
10	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
15	550.5	550.5	550.0	550.0	549.5	550.0	549.5	549.5	550.0	549.5
20	532.0	531.5	530.5	530.5	530.0	529.5	529.5	529.0	529.5	529.0
25	507.5	506.5	505.5	504.5	504.0	503.0	503.0	503.0	503.0	503.0
30	477.5	476.0	474.5	473.0	472.0	470.5	470.0	469.5	469.5	469.5
35	443.0	440.5	438.5	436.0	434.0	432.5	431.0	430.5	430.5	430.5
40	404.5	401.5	397.0	394.0	391.0	389.0	387.0	386.0	385.5	386.0
45	360.5	357.0	351.5	348.0	344.5	341.0	338.5	337.0	337.0	337.0
50	312.5	310.0	305.5	301.0	295.0	291.0	288.0	286.0	286.0	286.0
55	264.5	261.5	257.5	252.0	246.0	241.5	238.0	236.0	235.5	236.0
60	218.0	214.5	209.5	205.0	199.5	193.5	189.5	187.5	186.5	187.5

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_LO_359_22.IES

CANDELA TABULATION - (Cont.)

65	175.5	171.5	167.0	161.0	155.5	149.0	145.0	142.5	142.0	142.5
70	138.5	134.5	129.5	123.0	116.5	110.5	105.0	102.5	101.5	102.5
75	109.0	104.5	99.0	92.0	84.5	77.5	72.0	68.5	67.0	68.5
80	88.0	83.5	76.5	68.5	60.5	52.0	45.0	41.0	39.5	41.0
85	75.5	70.0	62.5	54.0	44.5	34.5	26.0	20.0	18.0	20.0
90	71.0	66.0	58.0	49.0	39.0	29.0	19.0	10.0	4.0	10.0
95	75.5	70.0	62.5	54.0	44.5	34.5	26.0	20.0	18.0	20.0
100	88.0	83.5	76.5	68.5	60.5	52.0	45.0	41.0	39.5	41.0
105	109.0	104.5	99.0	92.0	84.5	77.5	72.0	68.5	67.0	68.5
110	138.5	134.5	129.5	123.0	116.5	110.5	105.0	102.5	101.5	102.5
115	175.5	171.5	167.0	161.0	155.5	149.0	145.0	142.5	142.0	142.5
120	218.0	214.5	209.5	205.0	199.5	193.5	189.5	187.5	186.5	187.5
125	264.5	261.5	257.5	252.0	246.0	241.5	238.0	236.0	235.5	236.0
130	312.5	310.0	305.5	301.0	295.0	291.0	288.0	286.0	286.0	286.0
135	360.5	357.0	351.5	348.0	344.5	341.0	338.5	337.0	337.0	337.0
140	404.5	401.5	397.0	394.0	391.0	389.0	387.0	386.0	385.5	386.0
145	443.0	440.5	438.5	436.0	434.0	432.5	431.0	430.5	430.5	430.5
150	477.5	476.0	474.5	473.0	472.0	470.5	470.0	469.5	469.5	469.5
155	507.5	506.5	505.5	504.5	504.0	503.0	503.0	503.0	503.0	503.0
160	532.0	531.5	530.5	530.5	530.0	529.5	529.5	529.0	529.5	529.0
165	550.5	550.5	550.0	550.0	549.5	550.0	549.5	549.5	550.0	549.5
170	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
175	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	572.0	571.5
180	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0
5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5
10	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
15	549.5	550.0	549.5	550.0	550.0	550.5	550.5	551.0	551.5	551.5
20	529.5	529.5	530.0	530.5	530.5	531.5	532.0	532.5	533.0	533.5
25	503.0	503.0	504.0	504.5	505.5	506.5	507.5	508.5	509.5	510.0
30	470.0	470.5	472.0	473.0	474.5	476.0	477.5	479.0	480.0	481.0
35	431.0	432.5	434.0	436.0	438.5	440.5	443.0	444.5	446.0	447.5
40	387.0	389.0	391.0	394.0	397.0	401.5	404.5	407.5	409.0	410.0
45	338.5	341.0	344.5	348.0	351.5	357.0	360.5	363.0	364.5	365.0
50	288.0	291.0	295.0	301.0	305.5	310.0	312.5	315.0	316.0	316.0
55	238.0	241.5	246.0	252.0	257.5	261.5	264.5	266.0	267.0	267.0
60	189.5	193.5	199.5	205.0	209.5	214.5	218.0	220.5	221.0	220.5
65	145.0	149.0	155.5	161.0	167.0	171.5	175.5	177.5	178.0	177.5
70	105.0	110.5	116.5	123.0	129.5	134.5	138.5	140.5	141.0	141.0
75	72.0	77.5	84.5	92.0	99.0	104.5	109.0	111.5	113.0	113.0
80	45.0	52.0	60.5	68.5	76.5	83.5	88.0	91.5	93.5	94.0
85	26.0	34.5	44.5	54.0	62.5	70.0	75.5	79.0	81.5	82.5
90	19.0	29.0	39.0	49.0	58.0	66.0	71.0	75.0	78.0	79.0
95	26.0	34.5	44.5	54.0	62.5	70.0	75.5	79.0	81.5	82.5
100	45.0	52.0	60.5	68.5	76.5	83.5	88.0	91.5	93.5	94.0
105	72.0	77.5	84.5	92.0	99.0	104.5	109.0	111.5	113.0	113.0
110	105.0	110.5	116.5	123.0	129.5	134.5	138.5	140.5	141.0	141.0
115	145.0	149.0	155.5	161.0	167.0	171.5	175.5	177.5	178.0	177.5
120	189.5	193.5	199.5	205.0	209.5	214.5	218.0	220.5	221.0	220.5
125	238.0	241.5	246.0	252.0	257.5	261.5	264.5	266.0	267.0	267.0
130	288.0	291.0	295.0	301.0	305.5	310.0	312.5	315.0	316.0	316.0
135	338.5	341.0	344.5	348.0	351.5	357.0	360.5	363.0	364.5	365.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_LO_359_22.IES

CANDELA TABULATION - (Cont.)

140	387.0	389.0	391.0	394.0	397.0	401.5	404.5	407.5	409.0	410.0
145	431.0	432.5	434.0	436.0	438.5	440.5	443.0	444.5	446.0	447.5
150	470.0	470.5	472.0	473.0	474.5	476.0	477.5	479.0	480.0	481.0
155	503.0	503.0	504.0	504.5	505.5	506.5	507.5	508.5	509.5	510.0
160	529.5	529.5	530.0	530.5	530.5	531.5	532.0	532.5	533.0	533.5
165	549.5	550.0	549.5	550.0	550.0	550.5	550.5	551.0	551.5	551.5
170	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
175	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5	571.5
180	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0

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	573.0	573.0	573.0	573.0	573.0	573.0	573.0
5	571.5	571.5	571.5	571.5	571.5	571.5	571.5
10	564.0	564.5	564.5	564.5	564.5	564.5	564.5
15	551.5	551.5	552.0	552.0	552.0	552.5	552.0
20	533.5	534.0	534.5	535.0	535.0	535.0	535.0
25	510.5	511.0	511.5	512.0	512.5	512.5	512.5
30	482.0	485.0	485.5	486.0	486.5	486.5	486.5
35	450.5	451.5	452.0	452.5	452.5	452.5	452.5
40	411.0	411.0	410.5	411.0	410.5	410.0	410.0
45	365.0	364.0	363.0	362.5	362.0	361.5	361.0
50	315.5	314.5	313.5	312.0	311.0	310.5	310.5
55	266.5	265.0	263.0	262.0	260.5	259.5	259.5
60	219.5	217.0	215.0	213.5	211.5	210.5	210.0
65	175.5	173.5	171.5	169.5	168.0	167.0	166.5
70	140.0	138.0	136.0	134.5	133.0	132.0	132.0
75	112.0	111.0	109.0	108.0	107.0	106.0	106.0
80	93.5	93.0	91.5	90.5	89.5	89.0	89.0
85	82.5	82.0	81.0	80.0	79.5	79.0	79.0
90	79.0	78.0	78.0	77.0	76.0	76.0	76.0
95	82.5	82.0	81.0	80.0	79.5	79.0	79.0
100	93.5	93.0	91.5	90.5	89.5	89.0	89.0
105	112.0	111.0	109.0	108.0	107.0	106.0	106.0
110	140.0	138.0	136.0	134.5	133.0	132.0	132.0
115	175.5	173.5	171.5	169.5	168.0	167.0	166.5
120	219.5	217.0	215.0	213.5	211.5	210.5	210.0
125	266.5	265.0	263.0	262.0	260.5	259.5	259.5
130	315.5	314.5	313.5	312.0	311.0	310.5	310.5
135	365.0	364.0	363.0	362.5	362.0	361.5	361.0
140	411.0	411.0	410.5	411.0	410.5	410.0	410.0
145	450.5	451.5	452.0	452.5	452.5	452.5	452.5
150	482.0	485.0	485.5	486.0	486.5	486.5	486.5
155	510.5	511.0	511.5	512.0	512.5	512.5	512.5
160	533.5	534.0	534.5	535.0	535.0	535.0	535.0
165	551.5	551.5	552.0	552.0	552.0	552.5	552.0
170	564.0	564.5	564.5	564.5	564.5	564.5	564.5
175	571.5	571.5	571.5	571.5	571.5	571.5	571.5
180	573.0	573.0	573.0	573.0	573.0	573.0	573.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_LO_359_22.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	209.72	N.A.	6.70
0-30	443.65	N.A.	14.10
0-40	720.39	N.A.	22.90
0-60	1224.42	N.A.	39.00
0-80	1496.84	N.A.	47.70
0-90	1569.66	N.A.	50.00
10-90	1515.35	N.A.	48.30
20-40	510.68	N.A.	16.30
20-50	784.63	N.A.	25.00
40-70	669.54	N.A.	21.30
60-80	272.42	N.A.	8.70
70-80	106.90	N.A.	3.40
80-90	72.83	N.A.	2.30
90-110	179.73	N.A.	5.70
90-120	345.25	N.A.	11.00
90-130	575.32	N.A.	18.30
90-150	1126.02	N.A.	35.90
90-180	1569.66	N.A.	50.00
110-180	1389.94	N.A.	44.30
0-180	3139.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.31
10-20	155.41
20-30	233.93
30-40	276.75
40-50	273.95
50-60	230.07
60-70	165.52
70-80	106.90
80-90	72.83
90-100	72.83
100-110	106.90
110-120	165.52
120-130	230.07
130-140	273.95
140-150	276.75
150-160	233.93
160-170	155.41
170-180	54.31

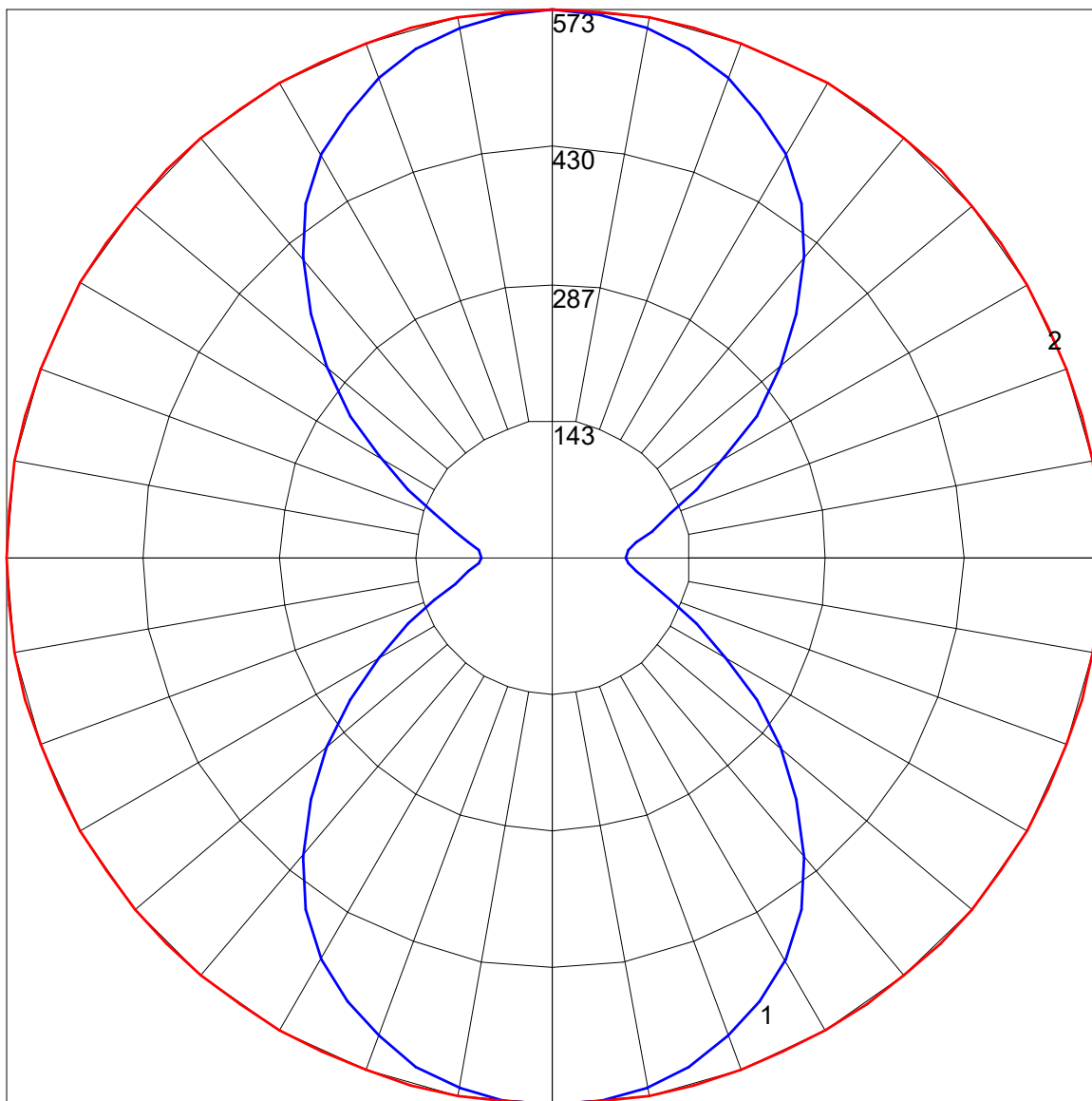
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_107_DR_LO_359_22.IES

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	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	72	70	67	60	58	57	49	48	46	41
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 573 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.)