

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 707_WE_W6_SO_359_WH-AL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L042412203 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 5/31/2024

[MANUFAC] Vode Lighting LLC

[LUMCAT] 707-WE-48-35-90-W6_SO

[LUMINAIRE] Wedge, Iso, diffuse, 48", 3500K, 90 CRI, standard output

[MORE] Wedge, Standard Output, White

[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	2.70
Spacing Criterion (Diagonal)	2.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4347	4333	4791
55	7090	4777	5044
65	9533	5175	5270
75	10286	5163	5458
85	14649	5226	5629

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08
5	220.08	220.08	220.08	219.24	218.40	219.24	220.08	221.76	222.60	222.60
10	215.88	216.72	216.72	216.72	217.56	218.40	220.08	222.60	224.28	225.96
15	211.68	211.68	212.52	213.36	214.20	215.88	220.08	223.44	226.80	229.32
20	204.12	204.96	206.64	207.48	210.00	213.36	218.40	225.96	235.20	246.12
25	195.72	196.56	199.08	201.60	204.96	210.84	224.28	238.56	257.04	273.84
30	185.64	186.48	189.84	193.20	199.92	215.04	236.04	257.04	278.04	297.36
35	173.04	174.72	178.92	184.80	199.08	221.76	247.80	272.16	295.68	319.20
40	160.44	162.12	168.00	178.08	199.92	229.32	260.40	288.12	314.16	338.52
45	157.92	160.44	166.32	184.80	215.04	248.64	278.04	305.76	330.96	356.16
50	193.20	194.88	199.08	217.56	243.60	271.32	300.72	327.60	351.96	375.48
55	214.20	215.88	226.80	251.16	278.04	301.56	325.08	349.44	375.48	398.16
60	223.44	225.12	241.08	271.32	299.88	326.76	348.60	367.08	388.92	413.28
65	220.92	224.28	248.64	281.40	311.64	338.52	361.20	380.52	399.00	424.20
70	199.92	207.48	236.88	270.48	301.56	329.28	354.48	375.48	394.80	417.48
75	158.76	172.20	202.44	236.88	267.96	299.04	325.08	348.60	375.48	403.20
80	126.84	145.32	178.92	211.68	243.60	273.00	299.88	329.28	361.20	390.60
85	105.84	127.68	158.76	191.52	222.60	254.52	283.08	315.00	346.92	375.48
90	96.60	115.92	147.00	178.92	209.16	238.56	267.12	299.04	330.96	361.20
95	97.44	115.92	144.48	174.72	204.96	233.52	260.40	291.48	322.56	351.12
100	110.88	120.12	146.16	177.24	204.96	234.36	259.56	283.08	310.80	337.68
105	130.20	131.04	156.24	183.12	210.00	236.04	259.56	279.72	299.88	325.08
110	156.24	155.40	173.88	196.56	221.76	244.44	266.28	285.60	300.72	315.84
115	151.20	149.52	157.92	178.92	199.92	221.76	241.08	257.88	272.16	289.80
120	136.08	135.24	136.08	153.72	172.20	189.00	204.12	219.24	235.20	256.20
125	118.44	116.76	112.56	124.32	138.60	152.04	164.64	180.60	199.92	219.24
130	82.32	80.64	76.44	77.28	90.72	105.84	121.80	141.12	160.44	177.24
135	10.08	13.44	17.64	23.52	42.84	64.68	84.84	103.32	119.28	133.56
140	9.24	9.24	9.24	9.24	15.12	31.92	49.56	66.36	83.16	99.96
145	8.40	8.40	9.24	8.40	8.40	15.96	29.40	44.52	59.64	73.92
150	8.40	8.40	8.40	8.40	8.40	8.40	14.28	23.52	36.12	47.04
155	8.40	8.40	8.40	8.40	8.40	7.56	7.56	10.08	15.12	22.68
160	7.56	7.56	8.40	7.56	7.56	7.56	7.56	7.56	7.56	7.56
165	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56	6.72	6.72
170	7.56	7.56	7.56	7.56	7.56	7.56	7.56	6.72	6.72	6.72
175	7.56	7.56	7.56	7.56	7.56	7.56	7.56	6.72	6.72	6.72
180	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90	95
0	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08
5	223.44	222.60	223.44	223.44	223.44	223.44	223.44	222.60	220.92	222.60
10	226.80	227.64	228.48	229.32	230.16	231.00	230.16	230.16	228.48	230.16
15	233.52	238.56	241.92	248.64	253.68	257.04	259.56	260.40	259.56	260.40
20	257.88	267.96	277.20	286.44	293.16	298.20	300.72	302.40	301.56	302.40
25	286.44	299.88	311.64	323.40	330.96	336.84	341.04	343.56	341.88	342.72
30	314.16	329.28	344.40	357.00	367.08	373.80	378.84	381.36	380.52	381.36
35	340.20	357.84	374.64	388.08	399.84	407.40	414.12	417.48	416.64	416.64
40	360.36	380.52	399.84	417.48	430.08	439.32	446.04	449.40	449.40	448.56
45	379.68	403.20	425.04	441.84	456.12	467.04	474.60	477.96	478.80	477.96
50	399.00	422.52	444.36	462.84	477.96	489.72	498.96	502.32	503.16	502.32
55	419.16	438.48	458.64	481.32	497.28	509.88	518.28	523.32	524.16	522.48
60	435.12	453.60	472.92	493.08	511.56	525.00	534.24	539.28	540.96	538.44

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CANDELA TABULATION - (Cont.)

65	447.72	467.04	482.16	502.32	520.80	535.08	545.16	550.20	551.88	550.20
70	442.68	461.16	480.48	505.68	525.00	540.12	550.20	556.08	557.76	556.08
75	429.24	454.44	482.16	505.68	525.00	540.12	551.04	556.92	558.60	556.92
80	417.48	447.72	475.44	498.96	519.96	535.08	546.00	552.72	554.40	552.72
85	407.40	436.80	465.36	488.88	509.88	525.00	536.76	543.48	545.16	543.48
90	393.96	425.04	451.92	475.44	495.60	510.72	522.48	529.20	530.88	528.36
95	378.00	408.24	435.12	459.48	479.64	494.76	504.84	511.56	513.24	511.56
100	364.56	390.60	416.64	439.32	458.64	472.92	483.84	488.88	490.56	489.72
105	349.44	368.76	392.28	414.12	432.60	446.88	457.80	462.00	463.68	462.84
110	334.32	351.96	367.92	385.56	404.04	417.48	427.56	431.76	433.44	432.60
115	310.80	326.76	341.04	354.48	371.28	383.88	393.12	398.16	399.00	398.16
120	275.52	292.32	305.76	319.20	334.32	346.92	356.16	360.36	362.04	360.36
125	236.88	252.00	267.12	282.24	296.52	308.28	315.84	320.88	322.56	320.88
130	193.20	212.52	229.32	244.44	257.04	266.28	274.68	278.88	280.56	278.88
135	149.52	166.32	183.12	199.92	215.88	225.12	231.00	235.20	236.88	235.20
140	115.92	131.88	146.16	157.92	167.16	175.56	181.44	184.80	188.16	185.64
145	86.52	99.12	110.88	120.96	128.52	135.24	139.44	142.80	145.32	142.80
150	57.96	68.04	77.28	84.84	91.56	96.60	99.96	102.48	104.16	103.32
155	31.08	39.48	46.20	52.08	56.28	60.48	63.00	65.52	65.52	65.52
160	10.92	13.44	17.64	21.00	24.36	26.88	29.40	30.24	30.24	30.24
165	6.72	6.72	5.88	5.88	5.88	5.88	5.88	6.72	6.72	5.88
170	6.72	6.72	6.72	5.88	5.88	5.88	5.88	6.72	6.72	6.72
175	6.72	6.72	6.72	6.72	5.88	5.88	5.88	5.88	5.88	5.88
180	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08	220.08
5	222.60	223.44	223.44	223.44	223.44	223.44	223.44	223.44	222.60	221.76
10	230.16	231.00	230.16	229.32	228.48	227.64	226.80	225.96	224.28	222.60
15	259.56	257.04	253.68	248.64	241.92	236.88	231.84	229.32	225.96	222.60
20	301.56	298.20	293.16	286.44	277.20	267.96	257.88	246.96	233.52	223.44
25	341.04	336.84	330.96	322.56	311.64	299.88	287.28	272.16	257.04	238.56
30	378.84	373.80	366.24	357.00	344.40	330.12	315.00	296.52	277.20	256.20
35	414.12	408.24	399.84	388.08	372.96	356.16	338.52	320.04	297.36	273.84
40	446.04	439.32	430.08	416.64	401.52	381.36	361.20	337.68	313.32	287.28
45	473.76	466.20	456.12	442.68	424.20	403.20	380.52	357.00	330.96	306.60
50	498.12	489.72	477.96	462.00	442.68	420.84	397.32	375.48	352.80	327.60
55	517.44	509.04	496.44	480.48	459.48	439.32	420.00	395.64	371.28	345.24
60	533.40	524.16	510.72	493.92	470.40	452.76	433.44	410.76	384.72	362.88
65	544.32	534.24	519.96	500.64	481.32	463.68	446.04	420.00	395.64	375.48
70	549.36	538.44	524.16	504.84	482.16	459.48	438.48	412.44	387.24	364.56
75	550.20	539.28	524.16	504.84	478.80	451.92	425.88	399.84	371.28	341.88
80	546.00	534.24	519.12	498.12	474.60	446.04	417.48	386.40	356.16	324.24
85	536.76	524.16	508.20	488.88	464.52	437.64	406.56	372.12	341.04	308.28
90	522.48	510.72	495.60	474.60	449.40	422.52	391.44	359.52	329.28	296.52
95	504.84	494.76	479.64	460.32	437.64	408.24	379.68	347.76	318.36	286.44
100	483.84	472.92	458.64	438.48	415.80	388.92	361.20	335.16	305.76	276.36
105	456.96	446.88	432.60	413.28	391.44	367.08	346.08	320.88	294.00	272.16
110	426.72	416.64	403.20	386.40	366.24	349.44	331.80	309.12	290.64	273.00
115	393.12	383.04	371.28	352.80	336.84	320.88	303.24	282.24	261.24	242.76
120	355.32	346.08	335.16	318.36	303.24	287.28	270.48	248.64	225.96	205.80
125	315.84	308.28	296.52	282.24	264.60	248.64	230.16	211.68	191.52	168.00
130	273.84	267.12	257.04	243.60	227.64	208.32	186.48	168.84	152.04	133.56
135	231.00	224.28	214.20	198.24	183.12	166.32	147.00	129.36	112.56	96.60

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CANDELA TABULATION - (Cont.)

140	181.44	175.56	166.32	156.24	144.48	131.04	115.92	99.96	84.00	65.52
145	139.44	135.24	128.52	120.12	110.04	99.12	86.52	73.08	59.64	43.68
150	99.96	96.60	90.72	84.84	77.28	68.88	57.96	47.04	36.12	24.36
155	63.84	60.48	56.28	51.24	45.36	37.80	30.24	21.84	14.28	9.24
160	29.40	26.88	23.52	21.00	16.80	12.60	9.24	6.72	7.56	7.56
165	5.88	5.88	5.88	5.88	6.72	6.72	6.72	6.72	7.56	7.56
170	5.88	5.88	5.88	5.88	6.72	6.72	6.72	6.72	7.56	7.56
175	5.88	5.88	6.72	6.72	6.72	6.72	6.72	6.72	7.56	7.56
180	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72	6.72

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	220.08	220.08	220.08	220.08	220.08	220.08	220.08
5	220.08	219.24	219.24	219.24	220.08	220.08	220.08
10	220.08	217.56	216.72	216.72	216.72	216.72	215.88
15	219.24	215.88	213.36	212.52	212.52	211.68	210.84
20	218.40	213.36	210.00	207.48	205.80	204.96	204.12
25	220.92	210.00	204.96	200.76	198.24	195.72	194.88
30	234.36	211.68	198.24	193.20	189.00	185.64	184.80
35	249.48	220.92	194.88	183.96	178.92	174.72	173.04
40	259.56	231.00	199.92	173.04	166.32	162.12	159.60
45	279.72	247.80	216.72	186.48	170.52	164.64	162.12
50	300.72	272.16	242.76	216.72	194.04	192.36	190.68
55	320.88	298.20	272.16	243.60	215.04	207.48	206.64
60	341.88	317.52	289.80	259.56	229.32	210.84	210.00
65	353.64	328.44	299.04	267.96	233.52	207.48	206.64
70	341.04	315.00	284.76	252.84	217.56	184.80	181.44
75	315.84	285.60	255.36	222.60	189.00	154.56	143.64
80	294.00	263.76	231.00	199.08	163.80	131.88	112.56
85	274.68	243.60	212.52	180.60	146.16	115.08	94.08
90	261.24	230.16	199.08	168.00	136.08	106.68	82.32
95	254.52	225.12	194.04	162.96	130.20	101.64	84.84
100	247.80	221.76	193.20	162.96	133.56	105.84	96.60
105	249.48	224.28	196.56	168.00	140.28	116.76	113.40
110	251.16	227.64	203.28	178.08	154.56	136.92	136.08
115	223.44	202.44	180.60	159.60	137.76	126.84	128.52
120	188.16	170.52	152.88	133.56	115.08	112.56	114.24
125	149.52	134.40	119.28	104.16	92.40	94.92	95.76
130	112.56	92.40	74.76	59.64	56.28	60.48	61.32
135	78.12	57.12	33.60	13.44	10.08	10.08	10.08
140	47.88	30.24	15.96	9.24	9.24	9.24	9.24
145	29.40	15.96	9.24	9.24	9.24	9.24	9.24
150	14.28	8.40	8.40	8.40	9.24	8.40	8.40
155	7.56	8.40	8.40	8.40	8.40	8.40	8.40
160	7.56	7.56	8.40	8.40	8.40	8.40	8.40
165	7.56	7.56	7.56	7.56	7.56	7.56	8.40
170	7.56	7.56	7.56	7.56	7.56	7.56	7.56
175	7.56	7.56	7.56	7.56	7.56	7.56	7.56
180	6.72	6.72	6.72	6.72	6.72	6.72	6.72

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	88.15	N.A.	2.50
0-30	213.08	N.A.	6.00
0-40	404.58	N.A.	11.40
0-60	1011.42	N.A.	28.50
0-80	1823.54	N.A.	51.40
0-90	2215.77	N.A.	62.50
10-90	2194.54	N.A.	61.90
20-40	316.42	N.A.	8.90
20-50	580.08	N.A.	16.40
40-70	1008.69	N.A.	28.40
60-80	812.12	N.A.	22.90
70-80	410.27	N.A.	11.60
80-90	392.23	N.A.	11.10
90-110	698.31	N.A.	19.70
90-120	974.56	N.A.	27.50
90-130	1164.51	N.A.	32.80
90-150	1312.55	N.A.	37.00
90-180	1330.63	N.A.	37.50
110-180	632.32	N.A.	17.80
0-180	3546.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.23
10-20	66.92
20-30	124.92
30-40	191.50
40-50	263.65
50-60	343.19
60-70	401.85
70-80	410.27
80-90	392.23
90-100	365.80
100-110	332.51
110-120	276.25
120-130	189.94
130-140	102.00
140-150	46.04
150-160	14.85
160-170	2.58
170-180	0.66

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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	62
1	95	88	82	76	88	82	76	71	71	66	62	60	57	54	51	48	46	41
2	84	74	65	58	78	68	61	54	59	52	47	50	45	40	41	37	34	30
3	75	63	53	45	69	58	49	42	50	43	37	42	36	32	35	30	26	22
4	68	54	44	37	63	50	41	34	43	36	30	36	30	25	30	25	21	17
5	62	48	38	30	57	44	35	28	38	30	25	32	26	21	26	21	17	14
6	57	42	33	26	52	39	30	24	34	26	21	28	22	18	23	18	15	12
7	52	38	28	22	48	35	27	20	30	23	18	25	20	15	21	16	12	10
8	48	34	25	19	44	32	23	18	27	20	15	23	17	13	19	14	11	8
9	45	31	22	17	41	29	21	16	25	18	13	21	15	11	18	13	9	7
10	42	28	20	15	39	26	19	14	23	16	12	19	14	10	16	12	8	6

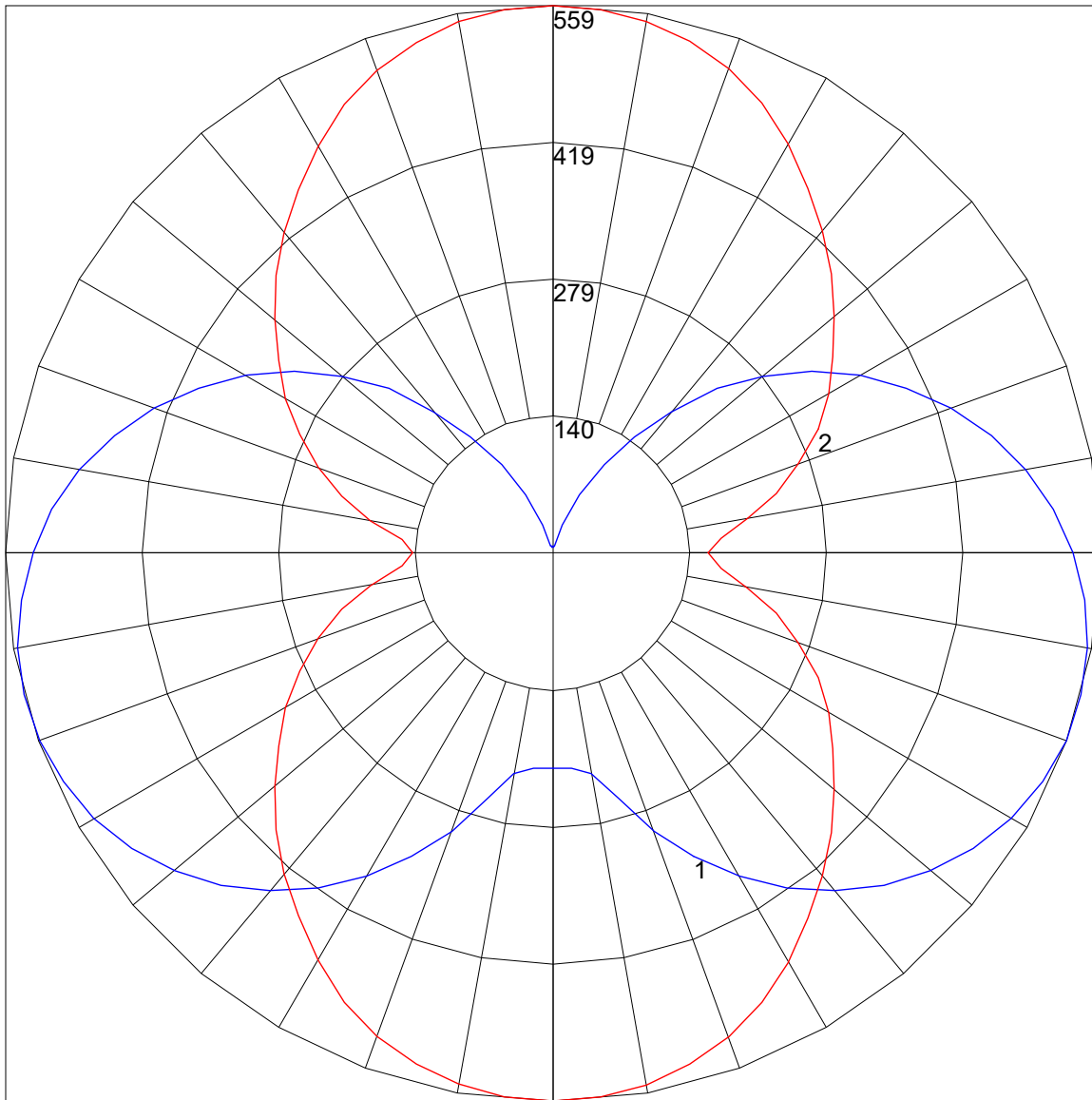
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	11.9	13.0	12.7	13.9	15.0	18.2	19.4	19.0	20.3	21.3
	3H	14.1	15.2	14.9	16.1	17.2	22.0	23.1	22.9	24.0	25.1
	4H	14.9	15.9	15.7	16.8	17.9	24.0	25.0	24.8	25.9	27.0
	6H	15.5	16.4	16.3	17.3	18.4	26.1	27.0	26.9	27.9	29.0
	8H	15.7	16.6	16.5	17.5	18.6	27.1	28.1	28.0	29.0	30.1
	12H	15.9	16.8	16.7	17.7	18.8	28.3	29.2	29.2	30.1	31.2
4H	2H	14.1	15.1	14.9	16.0	17.1	18.5	19.5	19.3	20.4	21.5
	3H	16.5	17.4	17.3	18.3	19.4	22.5	23.4	23.3	24.3	25.4
	4H	17.4	18.2	18.3	19.1	20.3	24.5	25.4	25.4	26.3	27.4
	6H	18.1	18.8	19.0	19.8	20.9	26.8	27.5	27.7	28.5	29.6
	8H	18.4	19.1	19.2	20.0	21.2	28.0	28.7	28.8	29.6	30.8
	12H	18.6	19.2	19.5	20.2	21.4	29.3	29.9	30.2	30.8	32.0
8H	4H	18.9	19.6	19.8	20.6	21.7	24.7	25.4	25.6	26.3	27.5
	6H	19.9	20.5	20.8	21.5	22.6	27.1	27.7	28.0	28.6	29.8
	8H	20.3	20.9	21.2	21.8	23.0	28.3	28.9	29.3	29.9	31.0
	12H	20.7	21.2	21.6	22.1	23.3	29.8	30.3	30.7	31.2	32.5
12H	4H	19.4	20.1	20.3	21.0	22.2	24.7	25.3	25.6	26.3	27.4
	6H	20.6	21.1	21.5	22.1	23.3	27.1	27.6	28.0	28.6	29.8
	8H	21.1	21.6	22.0	22.6	23.8	28.4	28.9	29.3	29.9	31.1

Maximum UGR = 32.5

POLAR GRAPH



Maximum Candela = 558.6 Located At Horizontal Angle = 90, Vertical Angle = 75
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)