

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RSL1-BK-35K-N-N-12.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3297  
 [ECN] 3314  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 12/6/2017 9:49:45 AM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] RSL1-BK-35K-N-N-12  
 [LUMINAIRE] Black aluminum housing with no baffle and lens  
 [LAMP] Three (3) white LEDs (3500K)  
 [ELECTRICALS] 12.08 VAC, 0.04 A, 0.9304 PF, 23% ATHD

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	0.48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.08
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.02 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6693	5704	3337
55	7684	6339	2825
65	9132	7121	2283
75	769	5060	1847
85	0	55	926

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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>
<b>0.0</b>	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
<b>2.5</b>	10.54	10.54	10.54	10.54	10.50	10.48	10.46	10.43	10.41	10.37
<b>5.0</b>	11.06	11.06	11.06	11.02	10.99	10.95	10.91	10.86	10.81	10.74
<b>7.5</b>	11.55	11.55	11.52	11.49	11.45	11.40	11.34	11.26	11.18	11.09
<b>10.0</b>	11.99	11.99	11.96	11.92	11.87	11.81	11.73	11.63	11.53	11.42
<b>12.5</b>	12.41	12.41	12.37	12.32	12.27	12.19	12.09	11.99	11.87	11.73
<b>15.0</b>	12.79	12.78	12.74	12.69	12.63	12.54	12.45	12.32	12.19	11.99
<b>17.5</b>	13.11	13.10	13.06	13.01	12.94	12.85	12.74	12.60	12.40	12.19
<b>20.0</b>	13.39	13.38	13.33	13.28	13.21	13.12	13.00	12.80	12.59	12.36
<b>22.5</b>	13.66	13.65	13.59	13.54	13.47	13.37	13.19	12.98	12.76	12.51
<b>25.0</b>	13.90	13.88	13.83	13.78	13.69	13.55	13.36	13.14	12.90	12.65
<b>27.5</b>	14.11	14.09	14.05	13.99	13.90	13.72	13.51	13.28	13.04	12.75
<b>30.0</b>	14.31	14.29	14.24	14.18	14.05	13.87	13.64	13.40	13.15	12.81
<b>32.5</b>	14.47	14.44	14.40	14.34	14.18	13.98	13.76	13.52	13.19	12.85
<b>35.0</b>	14.60	14.57	14.54	14.47	14.28	14.08	13.86	13.56	13.24	12.89
<b>37.5</b>	14.71	14.69	14.65	14.56	14.37	14.17	13.92	13.61	13.26	12.90
<b>40.0</b>	14.80	14.77	14.73	14.62	14.44	14.23	13.94	13.63	13.28	12.89
<b>42.5</b>	14.86	14.84	14.80	14.66	14.48	14.25	13.95	13.63	13.27	12.83
<b>45.0</b>	14.90	14.87	14.84	14.67	14.50	14.24	13.95	13.63	13.22	12.76
<b>47.5</b>	14.90	14.88	14.83	14.67	14.49	14.22	13.92	13.55	13.14	12.69
<b>50.0</b>	14.89	14.86	14.80	14.64	14.43	14.16	13.86	13.47	13.06	12.59
<b>52.5</b>	14.85	14.83	14.74	14.59	14.37	14.10	13.77	13.38	12.96	12.44
<b>55.0</b>	14.79	14.76	14.67	14.52	14.28	14.01	13.66	13.28	12.81	12.28
<b>57.5</b>	14.71	14.67	14.57	14.40	14.17	13.88	13.53	13.12	12.65	12.12
<b>60.0</b>	14.60	14.57	14.45	14.27	14.04	13.73	13.38	12.95	12.48	11.92
<b>62.5</b>	14.46	14.43	14.31	14.12	13.86	13.58	13.15	12.78	12.20	11.61
<b>65.0</b>	14.29	14.26	14.12	13.92	13.53	13.11	12.79	12.36	11.61	11.24
<b>67.5</b>	14.09	13.75	13.33	12.98	12.77	12.07	12.10	11.23	10.84	10.78
<b>70.0</b>	12.35	11.00	10.84	10.66	10.49	10.48	10.16	9.88	9.70	9.39
<b>72.5</b>	6.48	5.25	5.58	6.39	6.68	7.19	7.67	7.88	7.36	7.71
<b>75.0</b>	0.89	0.60	0.91	1.61	2.38	2.97	4.51	4.67	4.88	5.93
<b>77.5</b>	0.04	0.04	0.06	0.09	0.39	0.50	1.82	1.37	2.52	3.92
<b>80.0</b>	0.00	0.00	0.05	0.05	0.05	0.12	0.05	0.26	1.36	2.04
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.10	0.39	0.31
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.04
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>
<b>0.0</b>	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
<b>2.5</b>	10.34	10.31	10.25	10.21	10.16	10.12	10.08	10.02	9.97	9.92
<b>5.0</b>	10.67	10.60	10.52	10.43	10.34	10.25	10.16	10.07	9.96	9.86
<b>7.5</b>	10.99	10.88	10.77	10.64	10.51	10.39	10.24	10.09	9.94	9.79
<b>10.0</b>	11.31	11.16	11.01	10.85	10.70	10.50	10.32	10.13	9.93	9.73
<b>12.5</b>	11.58	11.40	11.20	10.98	10.77	10.53	10.29	10.05	9.80	9.58
<b>15.0</b>	11.79	11.56	11.33	11.07	10.81	10.54	10.26	9.97	9.67	9.39
<b>17.5</b>	11.95	11.72	11.43	11.15	10.88	10.56	10.22	9.89	9.54	9.21
<b>20.0</b>	12.11	11.83	11.54	11.22	10.90	10.55	10.20	9.81	9.41	9.04
<b>22.5</b>	12.24	11.95	11.63	11.27	10.89	10.49	10.08	9.67	9.21	8.79
<b>25.0</b>	12.35	12.03	11.65	11.26	10.84	10.41	9.96	9.50	9.02	8.55
<b>27.5</b>	12.41	12.05	11.65	11.24	10.79	10.33	9.85	9.34	8.81	8.30
<b>30.0</b>	12.45	12.07	11.65	11.21	10.74	10.25	9.72	9.18	8.61	8.05

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**CANDELA TABULATION - (Cont.)**

32.5	12.48	12.08	11.64	11.17	10.65	10.11	9.54	8.95	8.34	7.74
35.0	12.49	12.08	11.59	11.07	10.52	9.94	9.34	8.71	8.06	7.42
37.5	12.49	12.02	11.51	10.98	10.39	9.78	9.15	8.48	7.79	7.11
40.0	12.45	11.94	11.42	10.86	10.26	9.62	8.97	8.24	7.51	6.78
42.5	12.37	11.86	11.32	10.73	10.10	9.41	8.69	7.94	7.16	6.35
45.0	12.28	11.77	11.19	10.55	9.88	9.16	8.41	7.63	6.81	5.91
47.5	12.19	11.62	11.01	10.36	9.65	8.92	8.13	7.32	6.46	5.44
50.0	12.05	11.46	10.83	10.16	9.42	8.67	7.85	7.01	6.11	4.97
52.5	11.89	11.29	10.64	9.94	9.18	8.37	7.54	6.64	5.47	4.29
55.0	11.73	11.11	10.43	9.68	8.89	8.05	7.17	6.25	4.83	3.65
57.5	11.54	10.90	10.19	9.42	8.59	7.73	6.84	5.87	4.19	2.95
60.0	11.31	10.65	9.92	9.14	8.30	7.42	6.47	5.48	3.55	2.30
62.5	11.05	10.40	9.66	8.85	7.95	7.02	6.07	5.07	3.29	2.05
65.0	10.76	10.08	9.14	8.31	7.50	6.60	5.65	4.63	3.03	1.82
67.5	10.01	9.16	8.41	7.74	7.05	6.18	5.22	4.19	2.76	1.57
70.0	8.82	8.19	7.65	7.13	6.55	5.74	4.79	3.75	2.50	1.33
72.5	7.57	7.15	6.83	6.31	5.77	5.02	4.13	3.18	2.08	1.05
75.0	6.08	5.60	5.33	5.04	4.74	4.19	3.44	2.59	1.67	0.77
77.5	4.03	3.74	3.79	3.74	3.68	3.34	2.74	2.00	1.24	0.51
80.0	1.96	1.82	2.23	2.42	2.60	2.49	2.02	1.41	0.82	0.24
82.5	0.05	0.39	1.19	1.59	1.87	1.85	1.52	1.06	0.62	0.19
85.0	0.04	0.24	0.78	1.06	1.24	1.24	1.02	0.71	0.42	0.13
87.5	0.03	0.12	0.40	0.53	0.63	0.63	0.52	0.37	0.22	0.08
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
0.0	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98
2.5	9.87	9.82	9.78	9.75	9.69	9.66	9.62	9.59	9.56	9.54
5.0	9.76	9.67	9.58	9.49	9.41	9.33	9.25	9.19	9.12	9.09
7.5	9.65	9.52	9.39	9.25	9.12	9.00	8.88	8.78	8.68	8.59
10.0	9.54	9.37	9.18	9.00	8.83	8.66	8.50	8.36	8.22	8.09
12.5	9.33	9.11	8.90	8.69	8.48	8.30	8.11	7.92	7.75	7.58
15.0	9.12	8.84	8.60	8.33	8.08	7.86	7.65	7.45	7.25	7.04
17.5	8.89	8.57	8.26	7.96	7.67	7.39	7.13	6.86	6.37	4.39
20.0	8.67	8.32	7.94	7.59	7.25	6.93	6.43	4.50	2.25	1.96
22.5	8.38	7.98	7.60	7.21	6.84	6.18	3.39	2.01	1.65	0.62
25.0	8.09	7.64	7.19	6.77	6.16	3.39	1.95	1.63	0.59	0.06
27.5	7.82	7.30	6.83	6.30	4.35	1.94	1.74	0.77	0.04	0.03
30.0	7.51	6.95	6.41	5.34	2.38	1.72	1.13	0.12	0.03	0.03
32.5	7.15	6.57	6.00	3.76	1.74	1.49	0.49	0.03	0.03	0.03
35.0	6.79	6.16	5.27	2.73	1.54	1.28	0.07	0.03	0.03	0.02
37.5	6.43	5.75	4.15	1.71	1.35	0.62	0.03	0.02	0.02	0.00
40.0	6.05	5.34	3.23	1.41	1.17	0.25	0.03	0.00	0.00	0.00
42.5	5.48	4.73	2.64	1.24	0.95	0.08	0.02	0.00	0.00	0.00
45.0	4.88	3.82	1.74	0.95	0.75	0.03	0.00	0.00	0.00	0.00
47.5	4.23	2.67	0.94	0.69	0.40	0.03	0.00	0.00	0.00	0.00
50.0	3.59	1.72	0.48	0.47	0.18	0.02	0.00	0.00	0.00	0.00
52.5	3.06	1.27	0.25	0.28	0.07	0.00	0.00	0.00	0.00	0.00
55.0	2.57	1.02	0.19	0.22	0.04	0.00	0.00	0.00	0.00	0.00
57.5	2.10	0.79	0.14	0.16	0.03	0.00	0.00	0.00	0.00	0.00
60.0	1.64	0.56	0.09	0.10	0.00	0.00	0.00	0.00	0.00	0.00
62.5	1.35	0.39	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00
65.0	1.10	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.81	0.18	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

70.0	0.56	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.42	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.31	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.22	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.14	0.12	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
82.5	0.11	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>
0.0	9.98	9.98	9.98	9.98	9.98	9.98	9.98
2.5	9.51	9.49	9.47	9.46	9.45	9.44	9.44
5.0	9.01	8.98	8.94	8.91	8.89	8.89	8.88
7.5	8.51	8.44	8.39	8.34	8.31	8.30	8.29
10.0	7.98	7.90	7.81	7.75	7.71	7.69	7.69
12.5	7.43	7.31	7.21	7.15	7.07	7.04	7.04
15.0	6.85	6.43	5.29	4.17	3.70	3.49	3.52
17.5	2.56	1.82	1.25	0.76	0.40	0.17	0.03
20.0	1.22	0.32	0.07	0.03	0.03	0.03	0.03
22.5	0.11	0.03	0.03	0.03	0.03	0.03	0.03
25.0	0.03	0.03	0.03	0.03	0.03	0.03	0.03
27.5	0.03	0.03	0.03	0.03	0.03	0.03	0.03
30.0	0.03	0.03	0.03	0.03	0.03	0.02	0.02
32.5	0.02	0.02	0.02	0.02	0.02	0.00	0.00
35.0	0.02	0.00	0.00	0.00	0.00	0.00	0.00
37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3.52	N.A.	11.80
0-30	7.09	N.A.	23.70
0-40	11.58	N.A.	38.80
0-60	22.14	N.A.	74.10
0-80	29.61	N.A.	99.10
0-90	29.87	N.A.	100.00
10-90	28.92	N.A.	96.80
20-40	8.06	N.A.	27.00
20-50	13.21	N.A.	44.20
40-70	15.75	N.A.	52.70
60-80	7.47	N.A.	25.00
70-80	2.28	N.A.	7.60
80-90	0.25	N.A.	0.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	29.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.95
10-20	2.58
20-30	3.57
30-40	4.49
40-50	5.15
50-60	5.41
60-70	5.19
70-80	2.28
80-90	0.25
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

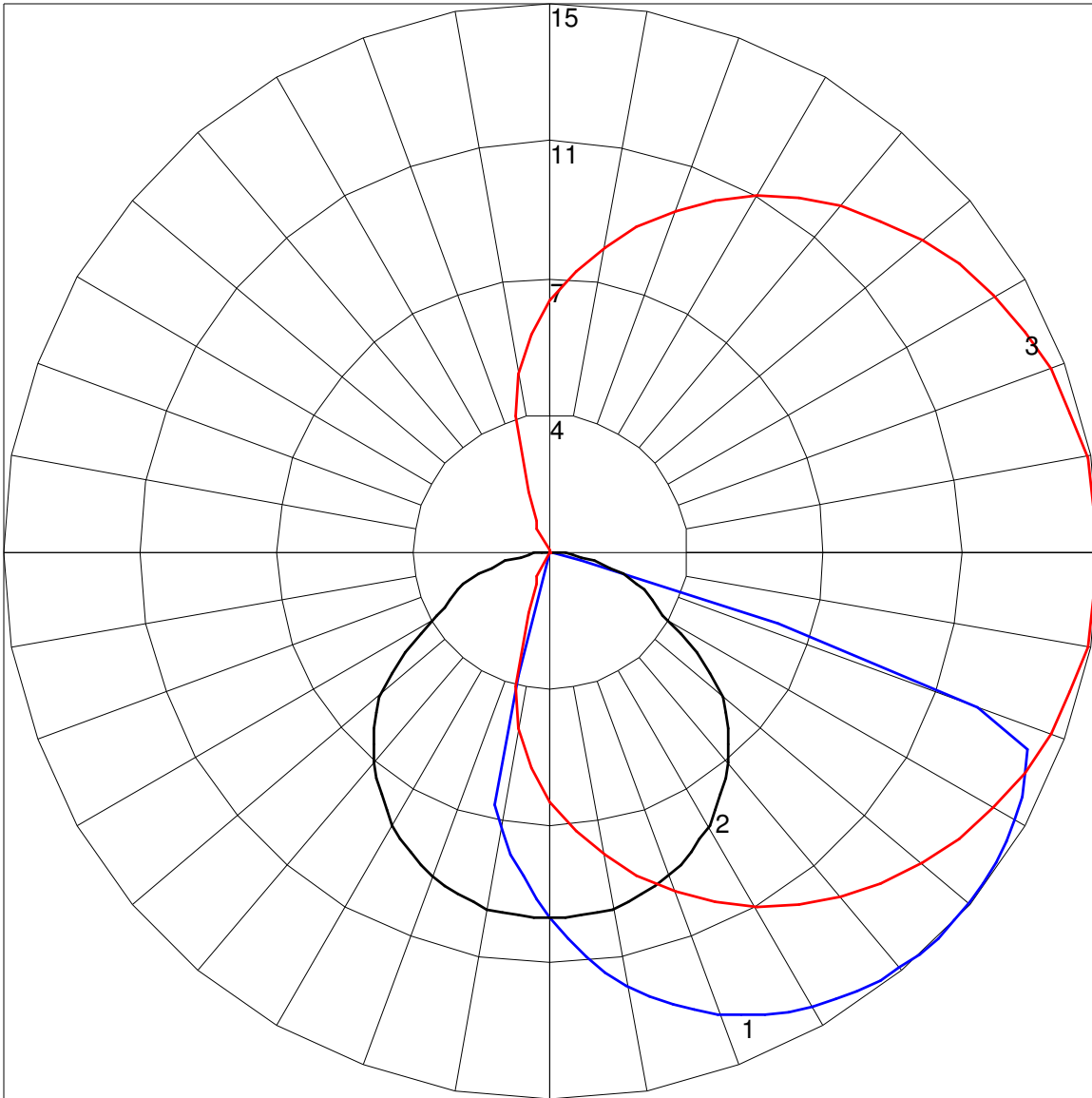
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RSL1-BK-35K-N-N-12.IES**

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	96	93	90	93	90	87	89	87	85	83
2	97	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	88	77	68	62	86	75	68	61	72	66	60	70	64	59	67	62	58	56
4	80	68	58	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	73	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34
7	62	48	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24
10	51	37	29	24	49	37	29	24	36	28	24	35	28	23	34	28	23	21

POLAR GRAPH



Maximum Candela = 14.9 Located At Horizontal Angle = 0, Vertical Angle = 45

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)