



IES ROAD REPORT

PHOTOMETRIC FILENAME : VS-LED-E102-ITL87034.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]ITL87034-GONIOPHOTOMETRY
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
 [ISSUEDATE]03/30/16
 [MANUFAC]B-K LIGHTING, INC.
 [LUMCAT]VS-LED-e102-NSP-12
 [LUMINAIRE]CAST METAL WALL MOUNTING HOUSING, ONE ADJUSTABLE LED MODULE
 [MORE]CONSISTING OF: MACHINED BLACK FINISHED METAL HEAT SINK, ONE BLACK CIRCUIT
 [MORE]BOARD WITH 3 LEDS, ONE CLEAR CONICAL PLASTIC OPTIC PER LED, MOLDED BLACK
 [MORE]PLASTIC OPTIC MOUNTING FRAME. FABRICATED DIFFUSE METAL LED MODULE
 [MORE]MOUNTING BRACKETS, MACHINED BLACK FINISHED METAL OPTIC ASSEMBLY MOUNTING
 [MORE]COLLAR, CLEAR FLAT MICRO-PRISMATIC GLASS LENS, CAST BLACK PAINTED METAL
 [MORE]FACEPLATE, LENS PRISMS OUT. LED MODULE AND LUMINAIRE AIMED AT THE HORIZON.
 [LAMP]THREE WHITE LIGHT EMITTING DIODES (LEDS), AIMED AT THE HORIZON.
 [OTHER]INPUT ELECTRICAL: 12.0 VOLTS, 4.88 WATTS, 0.455 AMPS
 [LEDDRIVER]B-K LIGHTING 524439/400188-L-L, DRIVER HAS MULTIPLE LEADS,
 [MORE]ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.
 [NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT
 [MORE]VOLTAGE (12VAC, 60Hz) TO THE DRIVER.
 [OTHER]TEST PROCEDURE: IESNA LM-79-08
 [OTHER]TEST DISTANCE = 20.0 FEET
 [ABSOLUTELUMENS]355

Note: Candela values converted from Type-B to Type-C

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	365
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	4.88
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4527
Maximum Candela Angle	180H 0V
Maximum Candela (<90 Degrees Vertical)	4527
Maximum Candela Angle (<90 Degrees Vertical)	180H 0V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	171.4	N.A.	46.9
FM - Front-Medium (30-60)	3.8	N.A.	1.0
FH - Front-High (60-80)	< 0.05	N.A.	0.0
FVH - Front-Very High (80-90)	0.0	N.A.	0.0
BL - Back-Low (0-30)	186.1	N.A.	50.9
BM - Back-Medium (30-60)	4.1	N.A.	1.1
BH - Back-High (60-80)	< 0.05	N.A.	0.0
BVH - Back-Very High (80-90)	0.0	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	365.4	N.A.	100.0
BUG Rating	B1-U0-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	4527	4527	4527	4527	4527	4527	4527	4527	4527	4527
2.5	4063	4059	4056	4055	4055	4056	4058	4062	4067	4072
5.0	3053	3049	3050	3055	3063	3078	3050	3039	3032	3028
7.5	1924	1921	1924	1932	1920	1912	1907	1907	1930	1923
10.0	1065	1061	1061	1057	1053	1053	1056	1063	1057	1053
12.5	533	529	530	527	528	533	536	535	536	537
15.0	253	252	253	254	257	261	263	265	270	269
17.5	133	132	132	131	131	130	130	133	136	138
20.0	73	73	73	72	72	72	73	74	75	77
22.5	44	43	43	44	44	44	45	46	46	47
25.0	29	29	29	29	29	29	29	29	29	29
27.5	20	20	20	20	20	19	19	19	19	18
30.0	14	14	14	13	13	13	13	13	13	13
32.5	10	10	10	10	9	9	10	10	9	9
35.0	7	7	7	7	7	7	7	7	7	7
37.5	5	5	5	5	5	5	6	6	5	5
40.0	4	4	4	4	4	4	4	4	4	4
42.5	3	3	3	3	3	3	3	3	3	3
45.0	3	3	3	3	3	3	3	3	2	2
47.5	2	2	2	2	2	2	2	2	2	1
50.0	2	2	2	2	2	2	2	2	1	1
52.5	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1
57.5	1	1	1	1	1	1	1	1	1	1
60.0	1	1	1	1	1	1	1	1	1	1
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	4527	4527	4527	4527	4527	4527	4527	4527	4527	4527
2.5	4082	4059	4051	4044	4038	4034	4032	4031	4032	4034
5.0	3027	3030	3037	3046	3058	3082	3065	3064	3065	3070
7.5	1929	1928	1928	1931	1935	1940	1945	1967	1949	1971
10.0	1067	1057	1070	1076	1081	1084	1084	1083	1089	1082
12.5	536	532	535	543	549	555	557	555	551	555
15.0	269	268	270	273	279	285	286	286	286	283
17.5	139	139	139	140	145	147	148	150	149	148
20.0	78	79	79	80	81	83	82	82	83	83
22.5	47	47	48	48	49	49	50	49	50	50
25.0	29	30	30	31	31	30	30	31	31	32
27.5	19	19	20	20	20	20	20	20	20	20

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CANDELA TABULATION - (Cont.)

30.0	13	13	13	13	13	13	14	14	14	14
32.5	9	9	9	9	9	10	10	10	9	10
35.0	7	7	7	7	7	7	7	7	7	7
37.5	5	5	5	5	5	6	5	5	5	5
40.0	4	4	4	4	4	5	4	4	4	4
42.5	3	3	4	3	3	3	3	3	3	3
45.0	2	2	3	2	3	3	3	2	2	2
47.5	2	2	2	2	2	2	2	2	2	2
50.0	1	1	1	1	2	2	2	2	2	2
52.5	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1
57.5	1	1	1	1	0	1	1	1	1	1
60.0	1	1	1	0	0	0	0	0	1	0
62.5	0	1	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	4527	4527	4527	4527	4527	4527	4527	4527	4527	4527
2.5	4038	4043	4050	4058	4068	4079	4105	4098	4096	4095
5.0	3077	3103	3083	3077	3073	3073	3076	3083	3093	3106
7.5	1946	1943	1942	1942	1944	1948	1954	1954	1966	1956
10.0	1085	1086	1087	1087	1091	1083	1095	1095	1108	1125
12.5	560	562	563	563	562	570	571	579	585	591
15.0	285	286	287	289	287	292	295	298	301	302
17.5	148	150	152	151	152	152	154	155	156	156
20.0	83	84	84	84	84	86	88	89	90	89
22.5	51	51	51	52	51	52	53	54	55	55
25.0	32	32	32	33	33	33	33	33	34	34
27.5	21	21	21	21	21	21	21	21	21	21
30.0	14	14	14	14	14	14	14	14	14	14
32.5	9	9	9	9	10	10	10	10	10	10
35.0	7	7	7	7	7	7	7	7	7	7
37.5	5	5	5	5	5	5	5	5	5	5
40.0	4	4	4	4	4	4	4	4	4	4
42.5	3	3	3	3	3	3	3	3	3	3
45.0	2	2	2	2	3	3	3	2	2	2
47.5	2	2	2	2	2	2	2	2	2	2
50.0	1	1	2	1	1	1	1	1	1	1
52.5	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1
57.5	1	1	1	1	1	1	1	1	0	0
60.0	0	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	4527	4527	4527	4527	4527	4527	4527	4527	4527	4527
2.5	4095	4097	4099	4103	4108	4114	4122	4116	4112	4109
5.0	3123	3160	3151	3151	3155	3164	3176	3171	3170	3173
7.5	1966	1980	1998	2019	2024	2033	2049	2051	2059	2072
10.0	1125	1131	1141	1154	1168	1175	1188	1194	1204	1207
12.5	598	602	604	609	617	622	630	635	642	645
15.0	303	304	304	304	306	308	312	316	320	324
17.5	156	159	160	162	164	166	167	169	169	170
20.0	89	88	90	91	92	93	93	94	94	94
22.5	55	56	55	55	54	54	54	54	55	56
25.0	35	35	35	34	34	34	34	34	34	34
27.5	22	22	22	22	22	22	22	22	22	22
30.0	14	14	14	14	14	14	14	14	14	14
32.5	10	10	10	10	10	10	10	10	10	10
35.0	7	7	7	7	7	7	7	7	8	8
37.5	5	5	5	5	5	5	5	5	6	5
40.0	4	4	4	4	4	4	4	4	4	4
42.5	3	3	3	3	3	3	3	3	3	3
45.0	2	3	3	3	3	3	3	3	3	3
47.5	1	2	2	2	2	2	2	2	2	2
50.0	1	1	2	2	2	2	2	2	2	2
52.5	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1
57.5	1	1	1	1	1	1	1	1	1	1
60.0	0	1	1	1	1	1	1	1	1	1
62.5	0	1	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	4527	4527	4527	4527	4527	4527	4527	4527	4527	4527

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CANDELA TABULATION - (Cont.)

2.5	4108	4107	4107	4109	4111	4113	4110	4099	4090	4082
5.0	3179	3178	3164	3154	3146	3142	3141	3142	3147	3154
7.5	2067	2065	2068	2074	2101	2103	2107	2103	2101	2101
10.0	1210	1217	1229	1243	1241	1242	1256	1255	1268	1268
12.5	652	663	671	674	680	688	688	694	690	697
15.0	332	338	343	348	354	356	358	360	360	365
17.5	172	173	174	178	182	185	185	184	184	186
20.0	94	94	96	99	101	102	102	102	101	101
22.5	57	58	58	59	59	59	59	59	59	60
25.0	35	35	36	35	35	35	35	35	35	36
27.5	22	22	22	22	21	22	22	22	22	22
30.0	14	15	15	15	15	15	15	15	15	15
32.5	11	11	11	11	11	11	11	11	11	11
35.0	8	8	8	8	8	8	8	8	8	8
37.5	6	6	6	6	6	6	6	6	6	6
40.0	4	4	5	5	5	5	5	5	5	4
42.5	3	3	4	4	4	4	4	4	4	4
45.0	3	3	3	3	3	3	3	3	3	3
47.5	2	2	2	2	2	2	2	2	3	2
50.0	2	2	2	1	1	1	2	2	2	2
52.5	1	2	1	1	1	1	1	1	1	1
55.0	1	1	1	0	1	1	1	1	1	1
57.5	1	1	0	0	0	1	1	0	0	0
60.0	1	0	0	0	0	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	4527	4527	4527	4527	4527	4527	4527	4527	4527	4527
2.5	4075	4070	4066	4063	4062	4062	4064	4067	4072	4078
5.0	3163	3169	3161	3156	3154	3153	3155	3172	3151	3140
7.5	2103	2105	2109	2111	2109	2124	2101	2093	2085	2079
10.0	1268	1266	1264	1260	1266	1256	1255	1252	1247	1241
12.5	700	702	700	697	681	694	694	691	687	680
15.0	366	365	362	357	357	355	356	356	352	349
17.5	189	188	187	186	186	182	182	182	180	175
20.0	103	102	100	101	101	99	99	99	98	96
22.5	60	59	57	58	58	56	57	58	58	57
25.0	35	35	35	35	35	35	34	35	35	35
27.5	22	22	22	22	22	22	22	21	22	22
30.0	15	15	15	15	15	15	15	15	15	15
32.5	11	11	11	11	11	11	11	11	11	10
35.0	8	8	8	8	8	8	8	8	8	8
37.5	6	6	6	6	6	6	6	6	6	6

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CANDELA TABULATION - (Cont.)

40.0	5	5	5	5	5	5	5	5	5	5
42.5	4	4	4	4	4	4	4	4	4	4
45.0	3	3	3	3	3	3	3	3	3	3
47.5	2	2	2	2	2	3	3	2	2	2
50.0	2	1	1	2	2	2	2	2	2	1
52.5	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1
57.5	1	1	1	1	1	1	1	1	0	1
60.0	0	0	0	0	1	0	0	0	0	0
62.5	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	4527	4527	4527	4527	4527	4527	4527	4527	4527	4527
2.5	4085	4094	4116	4109	4107	4106	4106	4107	4110	4113
5.0	3133	3128	3126	3127	3131	3139	3150	3178	3137	3148
7.5	2074	2071	2070	2036	2049	2044	2042	2045	2052	2062
10.0	1234	1218	1208	1207	1208	1211	1202	1196	1195	1198
12.5	669	663	665	663	658	655	654	649	644	642
15.0	344	346	345	344	344	337	333	331	326	322
17.5	175	177	178	177	174	172	164	167	168	167
20.0	97	98	97	97	96	93	92	90	90	91
22.5	56	56	57	57	57	56	55	55	54	54
25.0	35	33	34	35	35	34	34	34	34	34
27.5	22	22	21	21	22	22	22	22	22	22
30.0	15	14	15	15	15	15	15	14	14	14
32.5	10	10	10	10	11	11	10	10	10	10
35.0	7	8	8	7	8	8	7	7	7	7
37.5	6	6	6	5	6	6	6	5	5	5
40.0	5	4	4	4	4	4	4	4	4	4
42.5	4	3	3	3	3	3	3	3	3	3
45.0	3	2	2	2	2	3	3	3	3	3
47.5	2	2	2	1	2	2	2	2	2	2
50.0	1	1	1	1	1	2	2	2	2	2
52.5	1	1	1	1	1	1	1	1	1	1
55.0	1	1	1	1	1	1	1	1	1	1
57.5	1	1	1	1	1	1	1	1	1	1
60.0	1	1	1	1	1	1	1	1	1	1
62.5	0	1	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
67.5	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
72.5	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : VS-LED-E102-ITL87034.IES

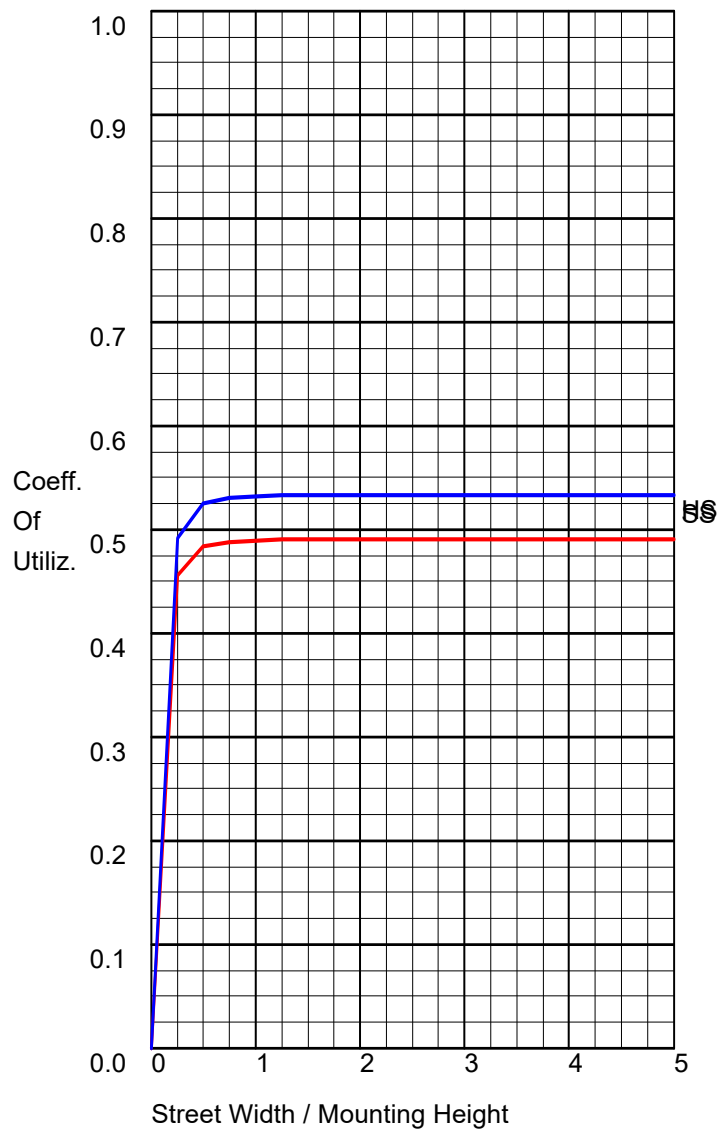
CANDELA TABULATION - (Cont.)

77.5	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>
0.0	4527	4527	4527
2.5	4118	4124	4131
5.0	3159	3170	3181
7.5	2053	2050	2052
10.0	1199	1192	1190
12.5	645	641	641
15.0	314	318	322
17.5	167	168	171
20.0	91	91	90
22.5	52	52	52
25.0	34	34	34
27.5	22	22	22
30.0	14	14	14
32.5	10	10	10
35.0	7	7	7
37.5	5	5	5
40.0	4	4	4
42.5	3	3	3
45.0	3	3	3
47.5	2	2	2
50.0	2	2	2
52.5	1	1	1
55.0	1	1	1
57.5	1	1	1
60.0	1	1	1
62.5	0	0	0
65.0	0	0	0
67.5	0	0	0
70.0	0	0	0
72.5	0	0	0
75.0	0	0	0
77.5	0	0	0
80.0	0	0	0
82.5	0	0	0
85.0	0	0	0
87.5	0	0	0
90.0	0	0	0

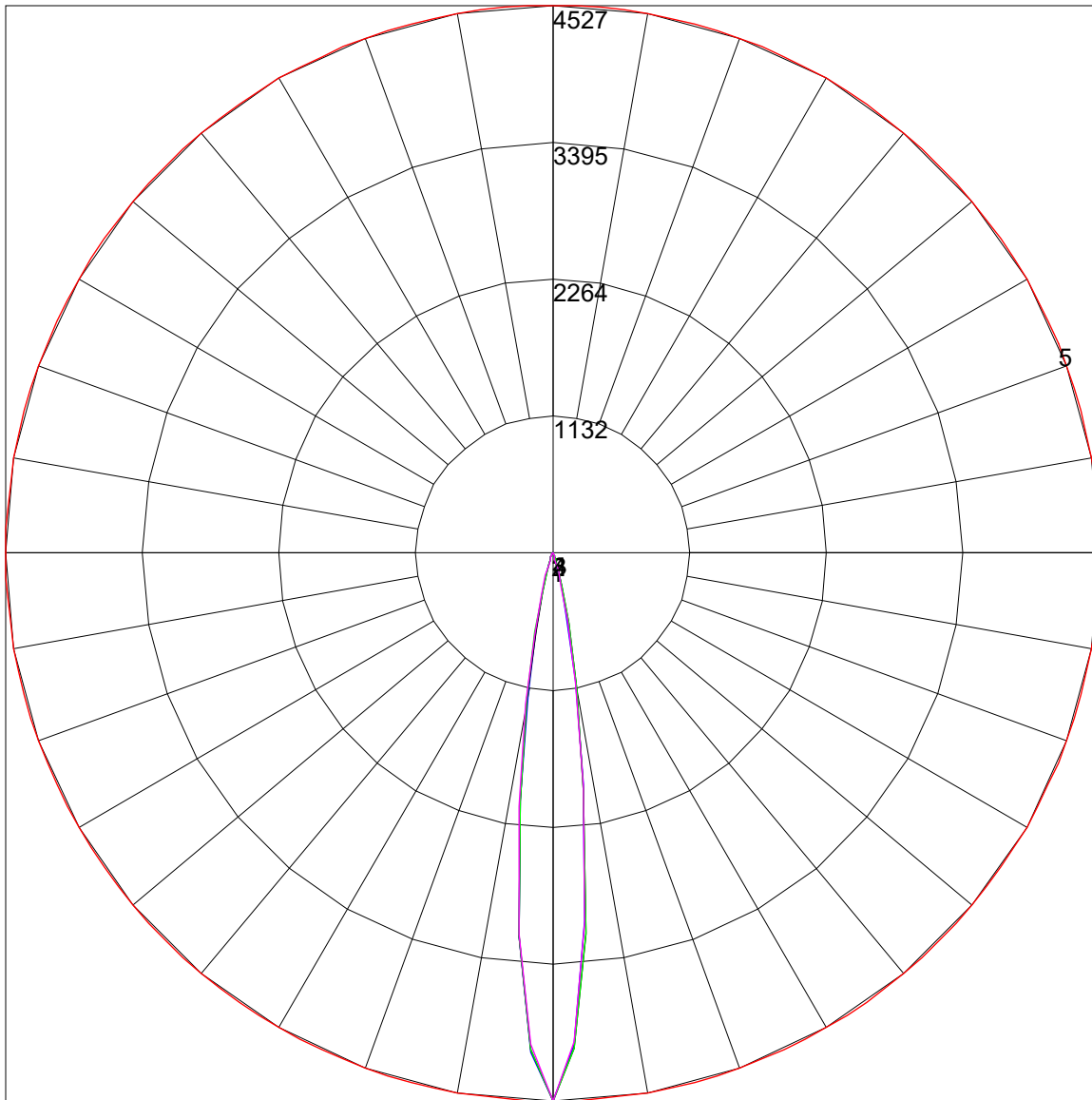
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	175.2	47.9
Downward House Side	190.2	52.1
Downward Total	365.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	365.4	100.0

POLAR GRAPH



Maximum Candela = 4527 Located At Horizontal Angle = 180, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (102 - 282)
3 - Vertical Plane Through Horizontal Angles (103 - 283)
4 - Vertical Plane Through Horizontal Angles (50 - 230)
5 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

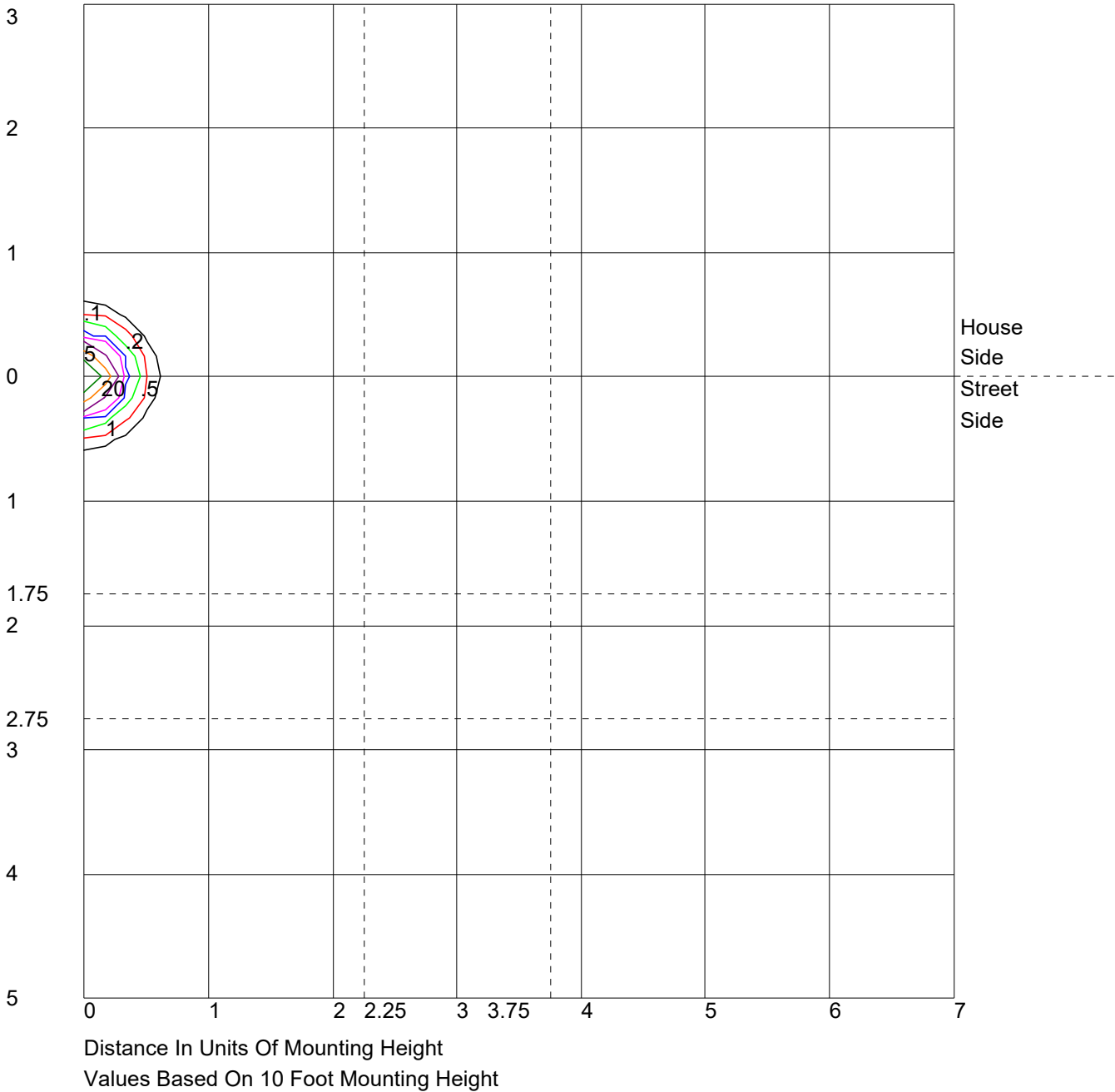


PHOTO IES R

