



## IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-3R-LED-23L-45.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3046

[TESTLAB] TUV SUD America

[TESTDATE] 2/8/2017 3:01:37 PM

[ISSUEDATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[\_SEARCH\_SOURCE] LED

[\_SEARCH\_APPLICATION] Outdoor

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[\_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[LUMCAT] TEL22-3R-LED-23L-45

### CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25540
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	221.58
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20565
Maximum Candela Angle	310H 70V
Maximum Candela (<90 Degrees Vertical)	20565
Maximum Candela Angle (<90 Degrees Vertical)	310H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	559 (2.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2370.3	N.A.	9.3
FM - Front-Medium (30-60)	6594.2	N.A.	25.8
FH - Front-High (60-80)	3768.4	N.A.	14.8
FVH - Front-Very High (80-90)	37.0	N.A.	0.1
BL - Back-Low (0-30)	2370.3	N.A.	9.3
BM - Back-Medium (30-60)	6594.2	N.A.	25.8
BH - Back-High (60-80)	3768.4	N.A.	14.8
BVH - Back-Very High (80-90)	37.0	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25539.8	N.A.	100.0
BUG Rating	B4-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0</b>	5791	5791	5791	5791	5791	5791	5791	5791	5791	5791
<b>5</b>	5784	5770	5736	5694	5651	5617	5577	5555	5543	5537
<b>10</b>	5835	5806	5703	5596	5479	5379	5303	5235	5199	5182
<b>15</b>	5952	5867	5685	5470	5266	5084	4955	4874	4842	4825
<b>20</b>	6128	5965	5647	5325	5000	4728	4489	4325	4248	4235
<b>25</b>	6388	6139	5648	5124	4618	4208	3912	3752	3694	3699
<b>30</b>	6804	6409	5664	4825	4095	3668	3487	3379	3359	3382
<b>35</b>	7318	6739	5623	4388	3602	3313	3184	3120	3143	3226
<b>40</b>	7889	7008	5436	3941	3278	3026	2955	2911	3277	3408
<b>45</b>	8206	6984	4974	3604	3111	2887	2751	2635	2577	2589
<b>50</b>	7921	6354	4410	3340	3214	2618	2409	2278	2246	2304
<b>55</b>	6888	5184	3800	2982	2760	2272	2146	1945	1902	1985
<b>60</b>	4998	3778	3029	2427	2038	1906	1761	1499	1503	2035
<b>65</b>	2686	2172	1975	1476	1263	1247	1275	1350	1324	1848
<b>70</b>	902	877	901	775	777	771	875	1284	1187	1675
<b>75</b>	324	340	389	418	429	481	600	747	720	1083
<b>80</b>	101	106	126	147	167	198	224	322	269	310
<b>85</b>	20	15	16	19	22	27	29	34	34	34
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>
<b>0</b>	5791	5791	5791	5791	5791	5791	5791	5791	5791	5791
<b>5</b>	5543	5555	5577	5617	5651	5694	5736	5770	5784	5816
<b>10</b>	5199	5235	5303	5379	5479	5596	5703	5806	5835	5870
<b>15</b>	4842	4874	4955	5084	5266	5470	5685	5867	5952	5995
<b>20</b>	4248	4325	4489	4728	5000	5325	5647	5965	6128	6184
<b>25</b>	3694	3752	3912	4208	4618	5124	5648	6139	6388	6465
<b>30</b>	3359	3379	3487	3668	4095	4825	5664	6409	6804	6875
<b>35</b>	3143	3120	3184	3313	3602	4388	5623	6739	7318	7390
<b>40</b>	3277	2911	2955	3026	3278	3941	5436	7008	7889	7909
<b>45</b>	2577	2635	2751	2887	3111	3604	4974	6984	8206	8364
<b>50</b>	2246	2278	2409	2618	3214	3340	4410	6354	7921	8548
<b>55</b>	1902	1945	2146	2272	2760	2982	3800	5184	6888	8111

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	1503	1499	1761	1906	2038	2427	3029	3778	4998	6434
<b>65</b>	1324	1350	1275	1247	1263	1476	1975	2172	2686	3754
<b>70</b>	1187	1284	875	771	777	775	901	877	902	1126
<b>75</b>	720	747	600	481	429	418	389	340	324	348
<b>80</b>	269	322	224	198	167	147	126	106	101	134
<b>85</b>	34	34	29	27	22	19	16	15	20	31
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

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

	<b><u>200</u></b>	<b><u>210</u></b>	<b><u>220</u></b>	<b><u>230</u></b>	<b><u>240</u></b>	<b><u>250</u></b>	<b><u>260</u></b>	<b><u>270</u></b>	<b><u>280</u></b>	<b><u>290</u></b>
<b>0</b>	5791	5791	5791	5791	5791	5791	5791	5791	5791	5791
<b>5</b>	5826	5840	5858	5864	5872	5874	5873	5881	5873	5874
<b>10</b>	5888	5901	5915	5921	5932	5942	5950	5959	5950	5942
<b>15</b>	6034	6049	6057	6074	6087	6096	6114	6130	6114	6096
<b>20</b>	6217	6246	6271	6295	6301	6280	6273	6271	6273	6280
<b>25</b>	6465	6475	6492	6517	6514	6495	6484	6486	6484	6495
<b>30</b>	6836	6763	6717	6726	6741	6709	6658	6644	6658	6709
<b>35</b>	7255	7068	6947	6912	6898	6874	6859	6900	6859	6874
<b>40</b>	7662	7383	7100	6958	6975	7039	7066	7145	7066	7039
<b>45</b>	8060	7638	7247	7003	6963	7096	7277	7404	7277	7096
<b>50</b>	8470	8003	7480	7047	7132	7512	8037	8266	8037	7512
<b>55</b>	8741	8591	8122	7544	7850	8790	9873	10147	9873	8790
<b>60</b>	7812	9507	10147	9381	10087	11946	13448	13570	13448	11946
<b>65</b>	4791	8217	14497	15153	15698	18025	17224	15623	17224	18025
<b>70</b>	1080	2364	11156	20565	17126	6118	2568	1950	2568	6118
<b>75</b>	383	512	1696	7697	2723	1047	756	585	756	1047
<b>80</b>	159	175	251	559	322	229	220	168	220	229
<b>85</b>	31	30	30	30	26	25	24	24	24	25
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0

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**PHOTOMETRIC FILENAME : TEL22-3R-LED-23L-45.IES**

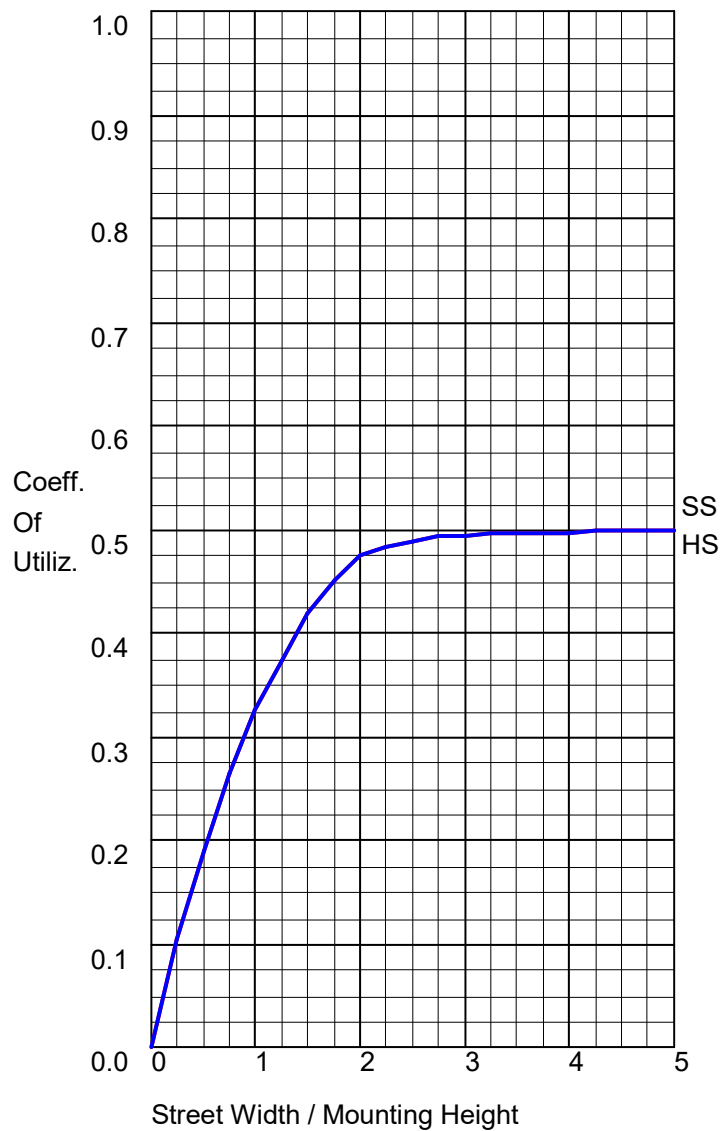
**CANDELA TABULATION - (Cont.)**

135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

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

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
0	5791	5791	5791	5791	5791	5791	5791
5	5872	5864	5858	5840	5826	5816	5784
10	5932	5921	5915	5901	5888	5870	5835
15	6087	6074	6057	6049	6034	5995	5952
20	6301	6295	6271	6246	6217	6184	6128
25	6514	6517	6492	6475	6465	6465	6388
30	6741	6726	6717	6763	6836	6875	6804
35	6898	6912	6947	7068	7255	7390	7318
40	6975	6958	7100	7383	7662	7909	7889
45	6963	7003	7247	7638	8060	8364	8206
50	7132	7047	7480	8003	8470	8548	7921
55	7850	7544	8122	8591	8741	8111	6888
60	10087	9381	10147	9507	7812	6434	4998
65	15698	15153	14497	8217	4791	3754	2686
70	17126	20565	11156	2364	1081	1126	902
75	2723	7697	1696	512	383	348	324
80	322	559	251	175	159	134	101
85	26	30	30	30	31	31	20
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

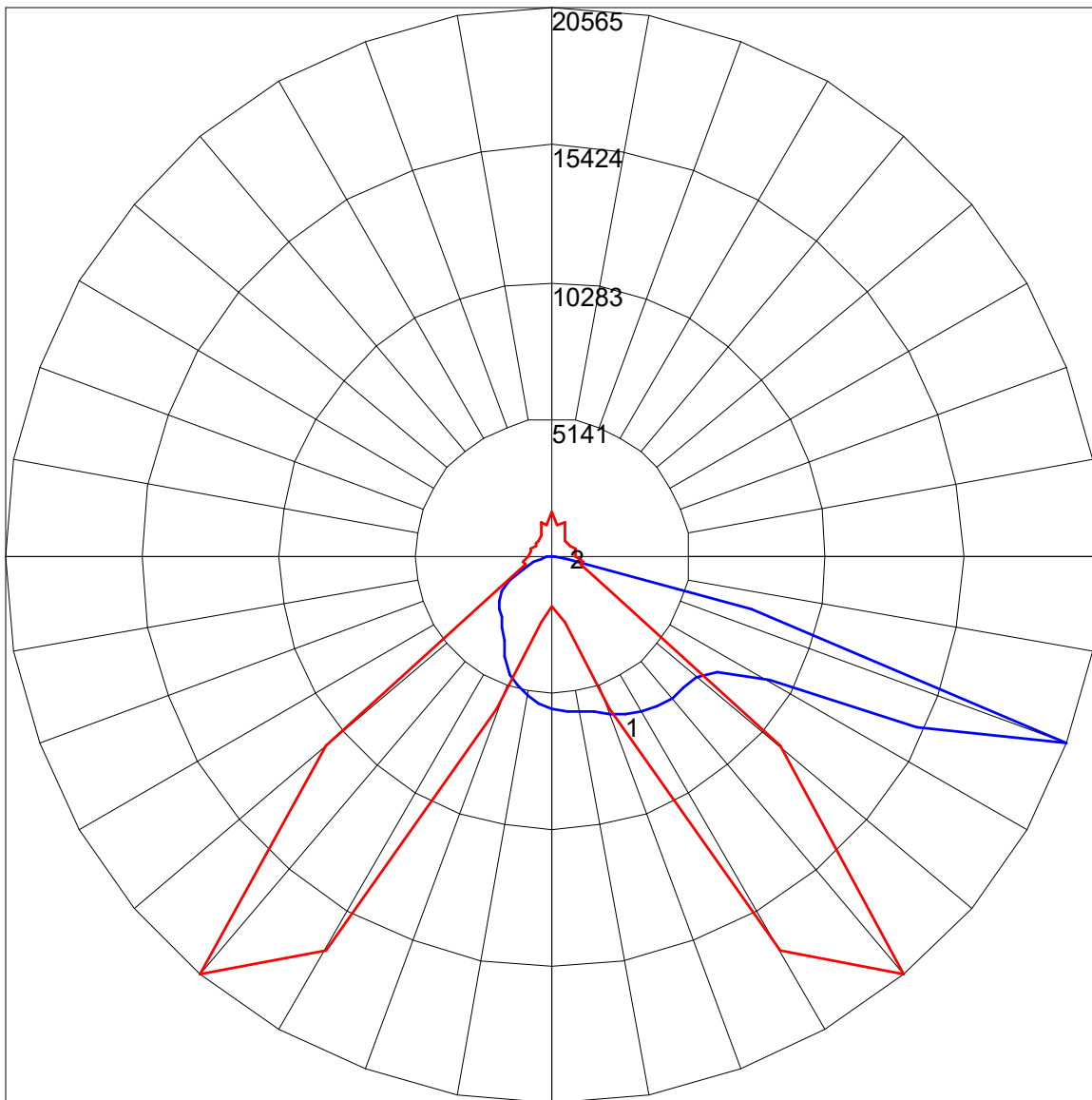
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

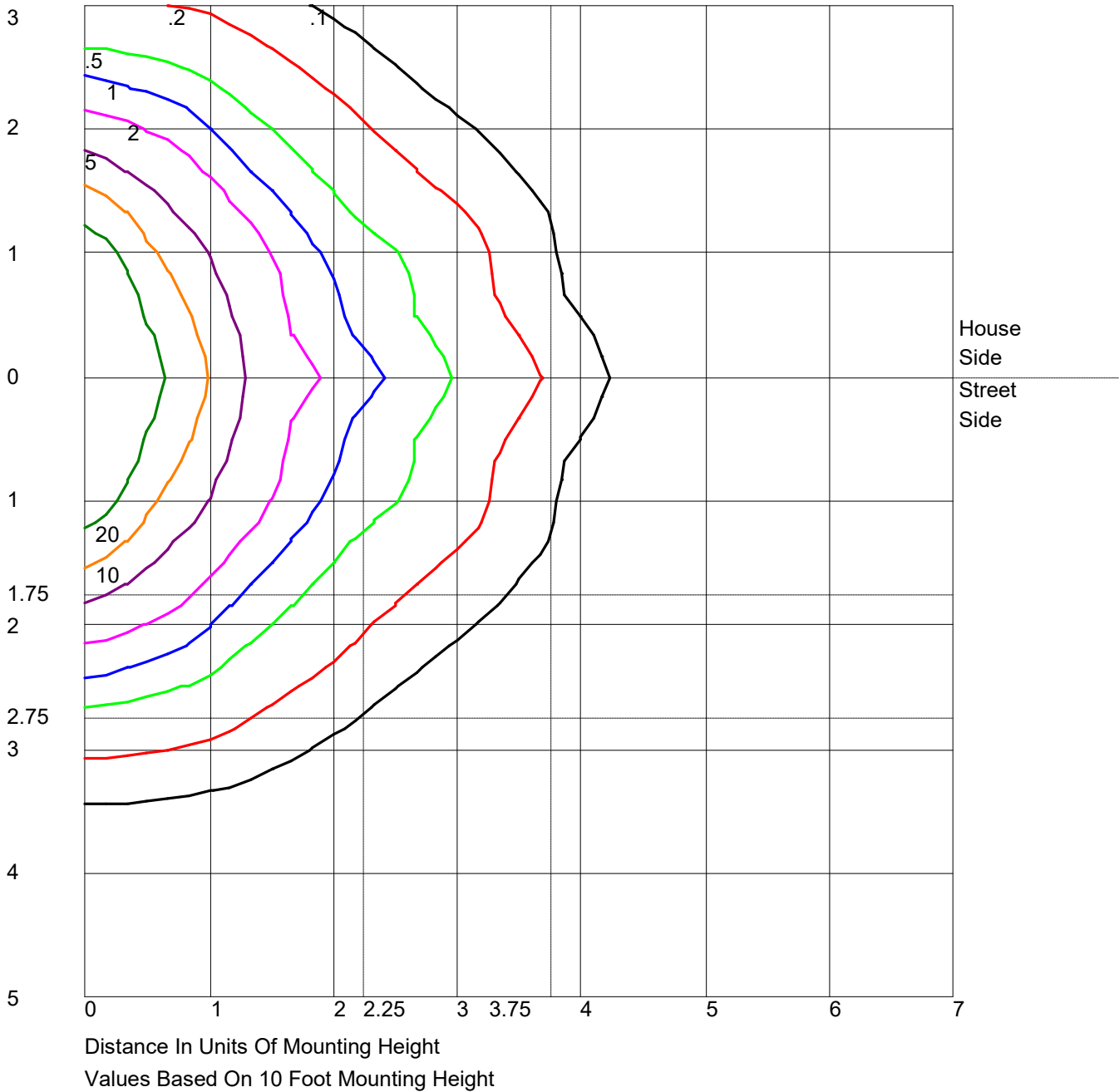
	Lumens	Percent Of Luminaire
Downward Street Side	12769.8	50.0
Downward House Side	12769.8	50.0
Downward Total	25539.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25539.6	100.0

POLAR GRAPH



Maximum Candela = 20565 Located At Horizontal Angle = 310, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (310 - 130) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





# PHOTO IES R

