



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ITL43428.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

REPORT NUMBER: ITL43428                      DATE: 02-03-95  
 PREPARED FOR: LEXALITE INTERNATIONAL CORPORATION  
 CATALOG NUMBER: MODEL 825  
 LUMINAIRE: CLEAR PRISMATIC PLASTIC REFLECTOR/REFRACTOR, CLEAR PRISMATIC  
                   PLASTIC DROP LENS ATTACHED WITH MOUNTING BAND, WHITE PAINTED  
                   METAL MOUNTING COLLAR.  
 LAMP: ONE 400-WATT PHOSPHOR COATED E-37 METAL HALIDE, VERTICAL BASE-UP  
                   POSITION.  
 MOUNTING: PENDANT/SUSPENDED

**CHARACTERISTICS**

IES Classification	Type V
Longitudinal Classification	Very Short
Cutoff Classification (deprecated)	Non-Cutoff
Total Rated Lamp Lumens	36000
Maximum Candela	8436
Maximum Candela Angle	22.5H 32.5V
Maximum Candela At 90 Degrees Vertical	1813 (5.0% Lamp Lms)
Maximum Candela from 80 to <90 Degrees Vertical	2185 (6.1% Lamp Lms)
Downward Total Efficiency	71.1%
Total Luminaire Watts	400
Ballast Factor	1.00

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2613.1	7.3	7.8
FM - Front-Medium (30-60)	6896.4	19.2	20.5
FH - Front-High (60-80)	2318.7	6.4	6.9
FVH - Front-Very High (80-90)	971.9	2.7	2.9
BL - Back-Low (0-30)	2613.1	7.3	7.8
BM - Back-Medium (30-60)	6896.4	19.2	20.5
BH - Back-High (60-80)	2318.7	6.4	6.9
BVH - Back-Very High (80-90)	971.9	2.7	2.9
UL - Uplight-Low (90-100)	2040.1	5.7	6.1
UH - Uplight-High (100-180)	5969.7	16.6	17.8
<b>Total</b>	<b>33610.0</b>	<b>93.5</b>	<b>100.0</b>

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**CANDELA TABULATION**

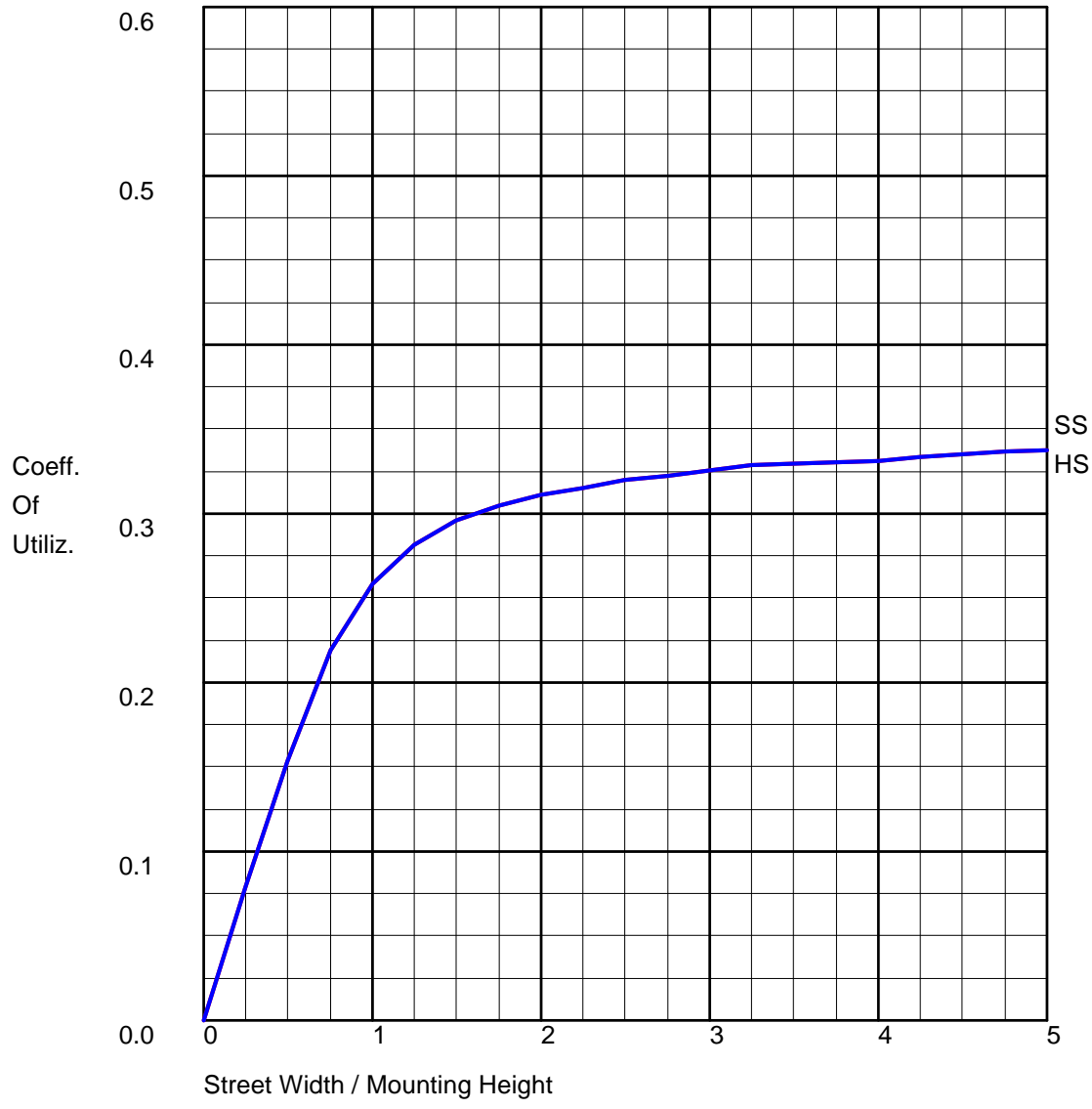
Vert. Angles	Horizontal Angles				
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	5514	5514	5514	5514	5514
2.5	5285	5355	5371	5471	5502
5.0	5099	5142	5208	5367	5448
7.5	4983	5030	5142	5320	5440
10.0	4890	4964	5165	5382	5526
12.5	4851	4937	5220	5483	5619
15.0	4937	5006	5336	5654	5851
17.5	5092	5165	5530	5925	6239
20.0	5440	5468	5936	6208	6487
22.5	5929	5983	6421	6541	6673
25.0	6595	6595	7018	6878	6843
27.5	7207	7328	7634	7219	6959
30.0	7773	8087	8192	7428	6921
32.5	8091	8436	8250	7405	6812
35.0	7905	8304	8025	7335	6890
37.5	7401	7851	7812	7382	7145
40.0	6642	7196	7506	7436	7316
42.5	5665	6332	7122	7386	7324
45.0	4743	5592	6785	7223	7153
47.5	3945	4902	6448	6944	6882
50.0	3363	4336	6150	6649	6587
52.5	2875	3852	5719	6208	6138
55.0	2534	3429	5185	5642	5603
57.5	2232	3065	4456	4921	4851
60.0	1937	2678	3666	4107	4185
62.5	1744	2325	3112	3573	3821
65.0	1612	2038	2650	3170	3449
67.5	1519	1813	2236	2778	3123
70.0	1480	1678	1988	2511	2898
72.5	1472	1616	1829	2344	2712
75.0	1496	1573	1755	2220	2557
77.5	1542	1573	1728	2120	2371
80.0	1596	1612	1705	1996	2185
82.5	1651	1662	1713	1883	2007
85.0	1705	1720	1751	1825	1891
87.5	1728	1763	1782	1810	1829
90.0	1751	1783	1813	1800	1809
92.5	1786	1829	1856	1850	1848
95.0	1838	1880	1896	1883	1875
97.5	1883	1914	1924	1905	1905
100.0	1903	1918	1924	1903	1913
102.5	1899	1903	1904	1889	1901
105.0	1887	1882	1880	1871	1885
107.5	1857	1849	1843	1844	1858
110.0	1823	1802	1803	1803	1844
112.5	1775	1750	1739	1752	1807
115.0	1715	1690	1672	1695	1765
117.5	1636	1612	1594	1612	1715
120.0	1535	1527	1494	1512	1639
122.5	1420	1413	1381	1400	1540
125.0	1288	1278	1250	1268	1423
127.5	1121	1114	1099	1103	1272
130.0	971	962	930	935	1099

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**CANDELA TABULATION - (Cont.)**

<b>132.5</b>	830	808	782	766	914
<b>135.0</b>	707	678	655	632	736
<b>137.5</b>	603	582	558	532	601
<b>140.0</b>	542	534	497	468	513
<b>142.5</b>	511	510	463	424	449
<b>145.0</b>	504	508	449	396	401
<b>147.5</b>	519	525	452	374	363
<b>150.0</b>	549	549	455	377	356
<b>152.5</b>	556	589	468	370	359
<b>155.0</b>	505	528	449	352	334
<b>157.5</b>	437	399	362	310	302
<b>160.0</b>	412	446	371	306	310
<b>162.5</b>	466	522	431	310	302
<b>165.0</b>	475	475	438	314	287
<b>167.5</b>	449	429	408	302	263
<b>170.0</b>	353	367	332	277	260
<b>172.5</b>	259	279	258	265	250
<b>175.0</b>	236	255	247	243	232
<b>177.5</b>	231	248	247	239	229
<b>180.0</b>	240	240	240	240	240

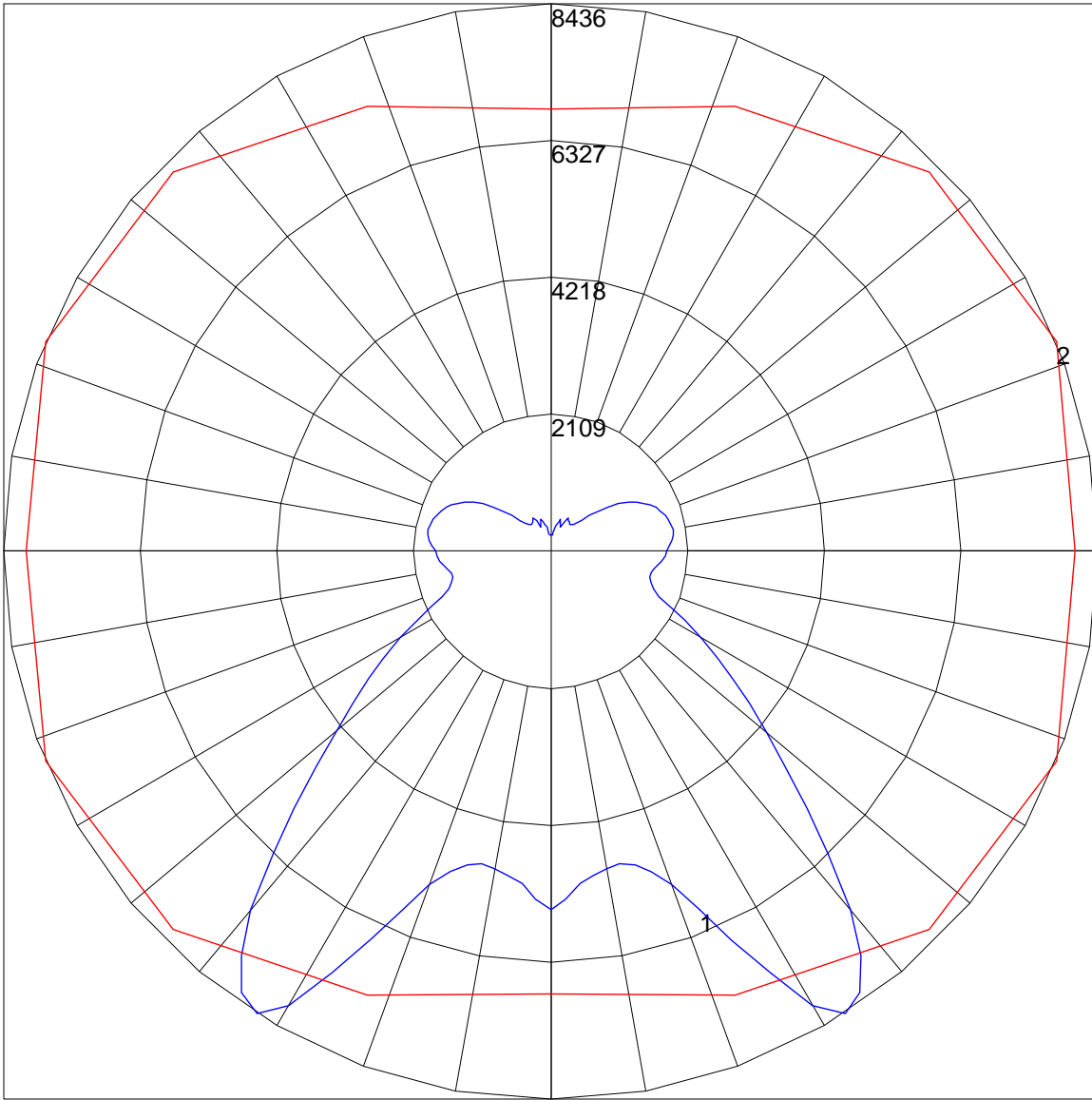
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

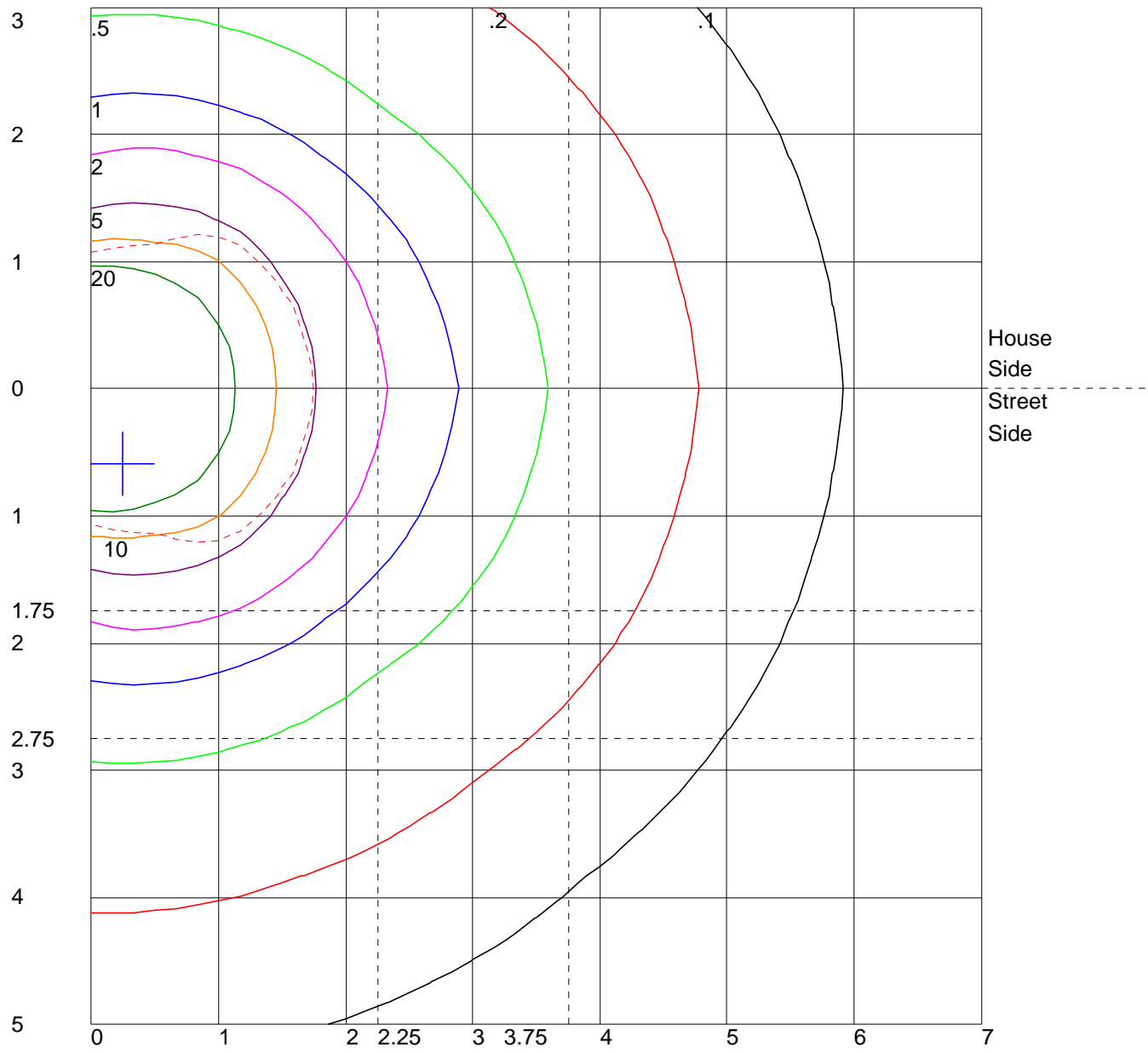
	Lumens	Percent Of Lamp
Downward Street Side	12800.0	35.6
Downward House Side	12800.0	35.6
Downward Total	25600.0	71.1
Upward Street Side	4004.9	11.1
Upward House Side	4004.9	11.1
Upward Total	8009.8	22.2
<b>Total Flux</b>	<b>33609.8</b>	<b>93.4</b>

POLAR GRAPH



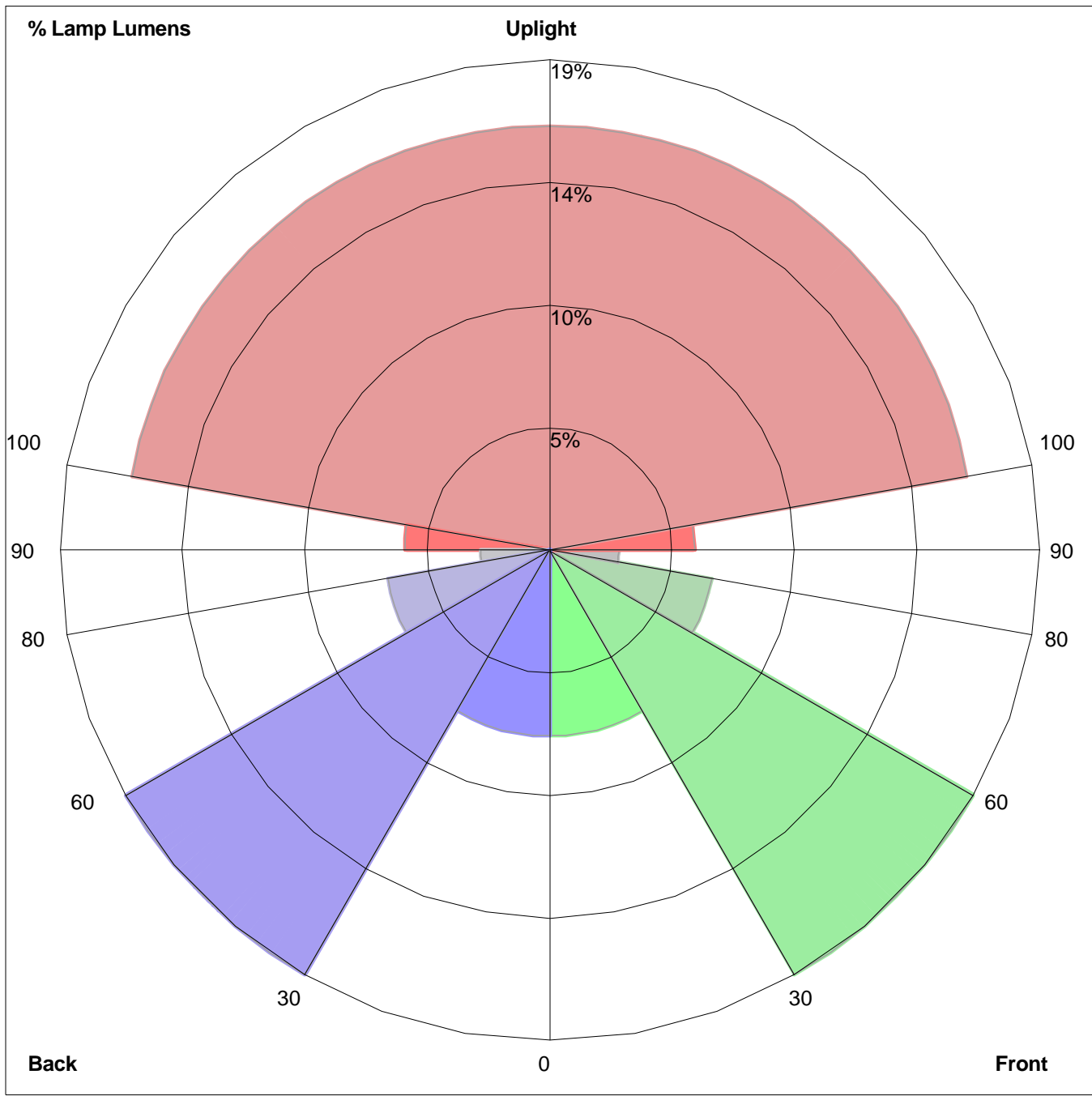
Maximum Candela = 8436 Located At Horizontal Angle = 22.5, Vertical Angle = 32.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height  
 Values Based On 10 Foot Mounting Height  
 1/2 Maximum Candela Trace Shown As Dashed Curve  
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Percent Lamp Lumens:  
 Front: Low=7.3%, Medium=19.2%, High=6.4%, Very High=2.7%  
 Back: Low=7.3%, Medium=19.2%, High=6.4%, Very High=2.7%  
 Uplight: Low=5.7%, High=16.6%