

## IES ROAD REPORT

PHOTOMETRIC FILENAME : S28929S28930 3000K 120V.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] BL211123018-9  
 [TESTLAB] Shenzhen Belling Efficiency Testing Lab Co.,Ltd  
 [TESTDATE] 2021-08-17  
 [ISSUEDATE] 2021-12-10  
 [MANUFAC] Satco Products, Inc.  
 [LUMCAT] S28929/S28930 3000K  
 [LUMINAIRE]  
 [LAMPCAT]  
 [LAMP]  
 [LumELE] 120.06 0.321 38.048 0.9862

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5856
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	38.048
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	1817.423
Maximum Candela Angle	337.5H 5V
Maximum Candela (<90 Degrees Vertical)	1817.423
Maximum Candela Angle (<90 Degrees Vertical)	337.5H 5V
Maximum Candela At 90 Degrees Vertical	463.799 (7.9% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	635.497 (10.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

### LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	712.7	N.A.	12.2
FM - Front-Medium (30-60)	1359.9	N.A.	23.2
FH - Front-High (60-80)	621.6	N.A.	10.6
FVH - Front-Very High (80-90)	171.8	N.A.	2.9
BL - Back-Low (0-30)	679.7	N.A.	11.6
BM - Back-Medium (30-60)	1258.7	N.A.	21.5
BH - Back-High (60-80)	581.0	N.A.	9.9
BVH - Back-Very High (80-90)	160.8	N.A.	2.7
UL - Uplight-Low (90-100)	183.8	N.A.	3.1
UH - Uplight-High (100-180)	126.2	N.A.	2.2

Total 5856.2 N.A. 100.0

BUG Rating B2-U3-G2

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	1800.834	1800.834	1800.834	1800.834	1800.834	1800.834	1800.834	1800.834	1800.834	1800.834
5	1804.331	1805.190	1800.683	1793.171	1794.888	1791.025	1786.088	1783.083	1791.239	1777.503
10	1786.303	1804.761	1794.888	1772.567	1768.489	1763.982	1762.909	1751.749	1757.329	1753.036
15	1773.640	1784.586	1761.407	1734.794	1749.173	1718.053	1712.473	1697.878	1686.933	1692.942
20	1744.881	1752.822	1715.692	1708.395	1680.923	1668.261	1634.350	1621.473	1597.220	1602.371
25	1685.430	1687.362	1669.763	1641.003	1624.048	1603.659	1561.593	1532.190	1511.801	1503.216
30	1602.586	1600.011	1591.211	1555.798	1549.789	1524.464	1468.447	1430.030	1415.006	1395.046
35	1485.188	1489.480	1484.758	1471.023	1467.588	1431.747	1361.994	1333.020	1290.525	1276.360
40	1333.879	1366.716	1388.178	1374.872	1376.803	1332.591	1269.063	1220.773	1161.966	1143.294
45	1180.209	1213.690	1261.336	1268.204	1271.209	1233.650	1169.049	1087.707	1043.495	1012.374
50	999.282	1059.591	1145.226	1173.341	1200.813	1129.773	1064.313	959.148	926.525	895.620
55	826.297	919.228	1023.749	1087.492	1103.589	1039.631	955.285	832.306	792.386	774.143
60	653.096	767.490	903.561	996.921	1016.881	949.490	843.896	700.957	628.200	659.535
65	509.943	609.313	791.098	893.473	947.344	870.938	742.808	567.033	443.839	535.054
70	360.351	479.467	674.129	786.377	834.452	766.417	639.146	441.264	284.589	407.997
75	215.481	360.137	564.242	692.587	724.351	659.320	523.893	327.299	160.967	299.828
80	109.672	262.483	463.370	579.910	635.497	580.125	426.670	218.486	72.542	194.019
85	49.792	170.410	367.434	476.247	544.068	490.842	337.387	145.729	30.476	125.340
90	1.932	112.033	295.321	404.349	463.799	417.226	262.913	91.858	1.288	77.479
95	1.288	70.396	226.641	284.589	391.471	351.552	210.545	58.807	0.644	42.281
100	1.288	31.979	33.696	188.224	3.005	64.601	78.123	30.476	0.858	22.535
105	1.288	6.224	78.552	133.495	221.276	127.271	59.021	5.366	0.429	4.078
110	1.717	10.731	51.724	102.375	183.931	106.667	57.090	4.722	1.288	7.083
115	1.932	7.726	29.189	74.689	133.924	84.347	25.111	8.800	2.146	7.512
120	1.932	5.151	16.955	45.071	97.439	50.436	12.663	2.790	1.717	4.292
125	2.361	4.507	5.366	19.745	45.715	21.248	4.722	3.863	2.361	3.863
130	2.361	3.649	2.790	7.297	22.535	7.297	4.936	4.078	2.790	3.649
135	1.932	2.146	2.790	3.434	4.507	3.434	3.005	4.292	2.790	3.434
140	2.146	2.361	3.005	3.219	3.005	2.790	2.575	2.575	2.361	2.575
145	2.361	2.790	3.005	3.434	3.005	3.434	2.575	2.361	2.146	1.932
150	2.575	2.790	3.219	3.219	3.219	3.219	2.575	2.575	2.361	2.575
155	3.005	3.005	3.219	3.219	3.005	3.219	2.790	2.790	2.790	2.361
160	3.005	3.219	3.005	3.219	3.005	3.219	3.005	2.790	2.575	2.790
165	3.005	3.219	3.005	3.005	3.005	3.219	3.219	3.005	3.005	3.219
170	3.005	2.790	3.005	2.790	2.790	3.005	3.005	3.005	3.005	3.219
175	3.005	2.790	3.005	3.005	2.790	2.790	3.005	3.005	3.005	3.219
180	3.295	3.295	3.295	3.295	3.295	3.295	3.295	3.295	3.295	3.295

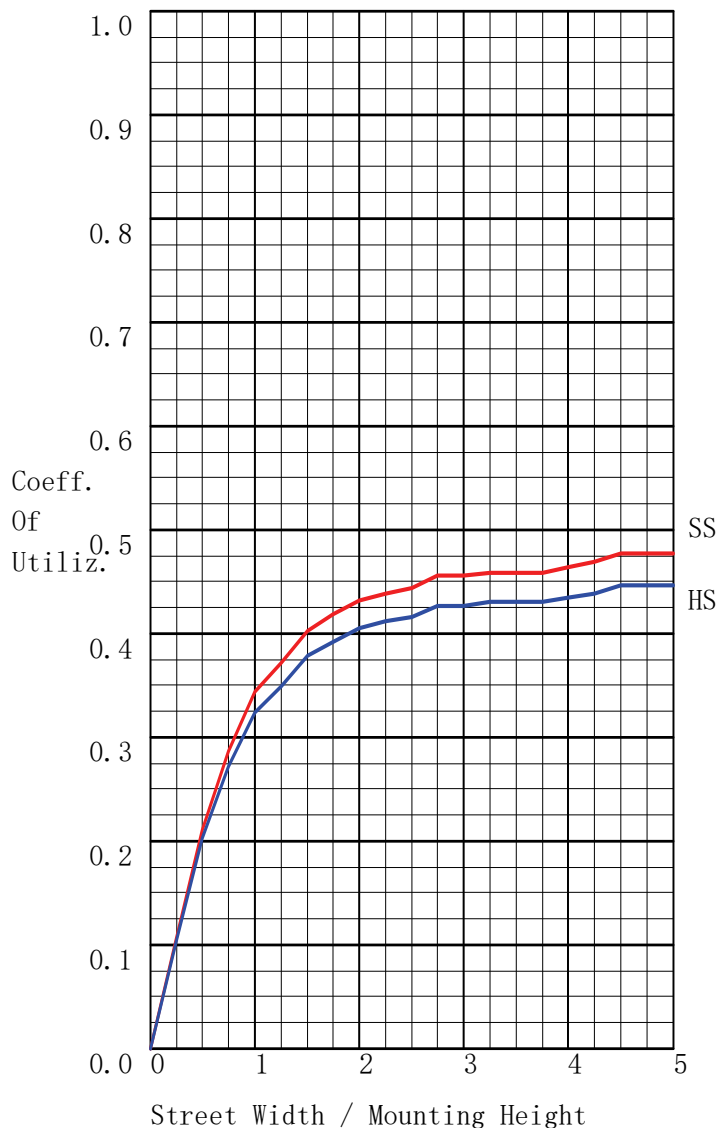
Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	1800.834	1800.834	1800.834	1800.834	1800.834	1800.834	1800.834
5	1772.567	1762.480	1759.904	1788.020	1801.970	1817.423	1804.331
10	1738.657	1731.360	1764.626	1759.904	1776.430	1809.911	1786.303
15	1676.631	1675.343	1692.513	1725.994	1751.534	1771.709	1773.640
20	1598.723	1616.751	1639.072	1666.329	1712.902	1726.852	1744.881
25	1521.030	1541.633	1562.666	1592.284	1648.730	1675.128	1685.430
30	1420.586	1448.916	1441.190	1512.659	1566.959	1585.202	1602.586
35	1300.398	1347.615	1368.218	1413.718	1463.940	1461.794	1485.188
40	1182.355	1239.230	1259.619	1306.192	1339.244	1326.152	1333.879
45	1070.966	1131.919	1128.914	1220.343	1202.100	1163.254	1180.209
50	945.841	1041.134	1085.775	1125.695	1069.249	1010.657	999.282
55	834.667	955.070	1018.598	1037.270	946.271	859.778	826.297
60	732.936	864.285	888.752	941.549	827.799	696.665	653.096
65	642.150	762.983	793.674	832.950	714.693	549.004	509.943
70	539.561	663.183	725.853	735.297	596.865	426.455	360.351
75	452.853	574.330	634.209	644.726	499.426	327.729	215.481
80	375.804	491.915	526.254	534.839	398.339	233.724	109.672

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**CANDELA TABULATION - (Cont.)**

<b>85</b>	302.832	393.403	449.634	445.342	313.563	161.825	49.792
<b>90</b>	240.806	333.523	384.818	372.585	245.743	98.941	1.932
<b>95</b>	189.941	269.566	319.788	271.068	194.448	58.377	1.288
<b>100</b>	65.245	42.924	264.200	192.731	39.061	24.467	1.288
<b>105</b>	36.915	95.292	194.877	112.033	56.875	3.219	1.288
<b>110</b>	35.627	78.123	131.564	78.123	34.554	9.229	1.717
<b>115</b>	14.165	54.299	78.337	44.212	15.667	7.083	1.932
<b>120</b>	10.302	25.111	37.130	22.750	12.019	4.722	1.932
<b>125</b>	5.580	13.307	19.531	11.804	5.366	4.292	2.361
<b>130</b>	4.292	3.649	6.224	3.649	3.434	3.649	2.361
<b>135</b>	2.361	2.575	3.649	3.005	3.005	2.146	1.932
<b>140</b>	2.361	3.005	3.649	3.219	3.005	2.361	2.146
<b>145</b>	2.361	3.005	3.649	3.219	3.005	2.575	2.361
<b>150</b>	2.361	3.219	3.434	3.005	3.005	2.790	2.575
<b>155</b>	2.790	3.005	3.434	3.005	3.219	3.005	3.005
<b>160</b>	3.434	3.219	3.219	3.219	3.219	3.005	3.005
<b>165</b>	3.219	3.005	3.005	3.219	3.219	3.219	3.005
<b>170</b>	3.434	3.005	3.005	2.790	3.005	3.219	3.005
<b>175</b>	3.219	3.005	3.219	2.790	3.005	3.219	3.005
<b>180</b>	3.295	3.295	3.295	3.295	3.295	3.295	3.295

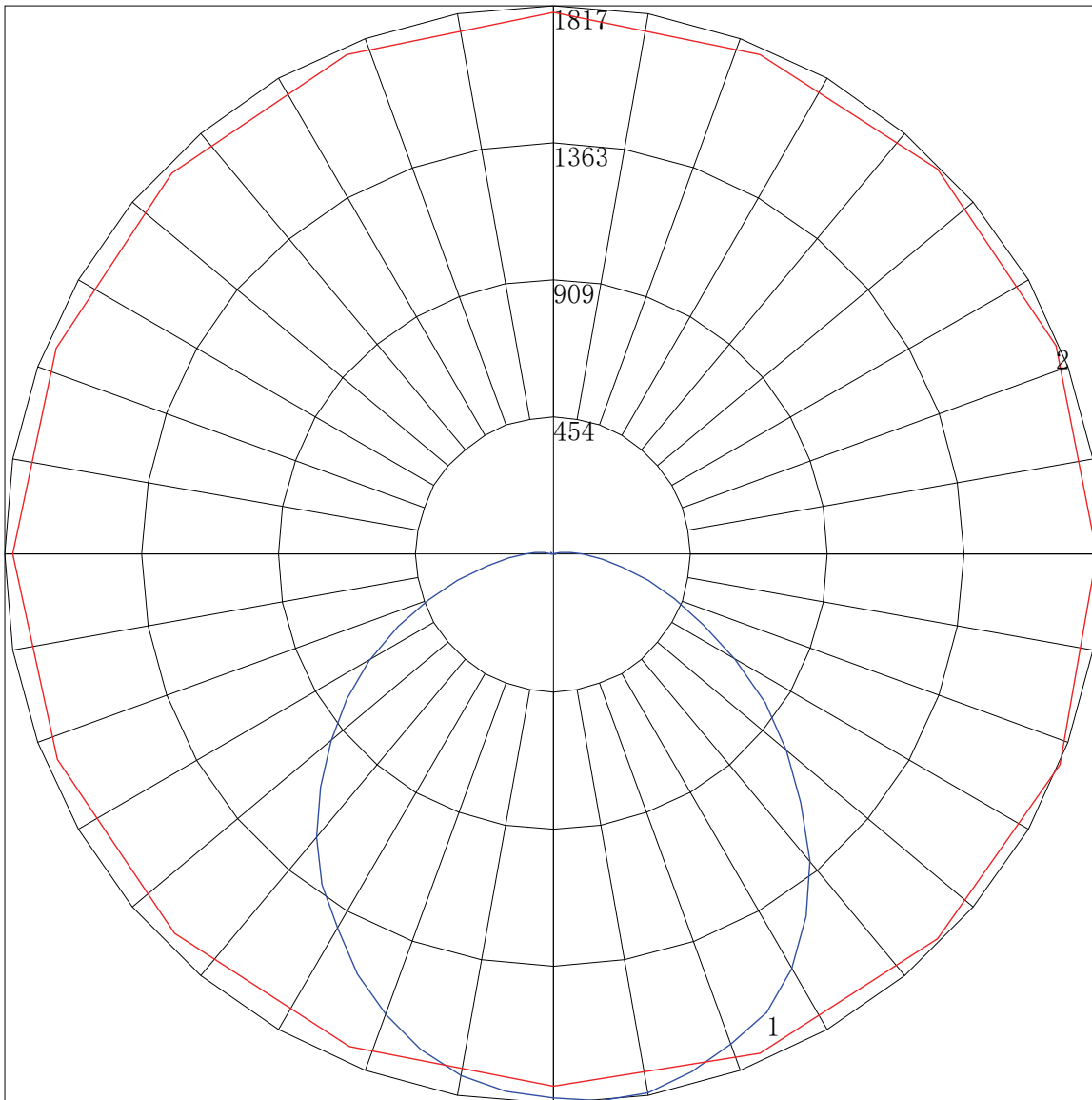
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

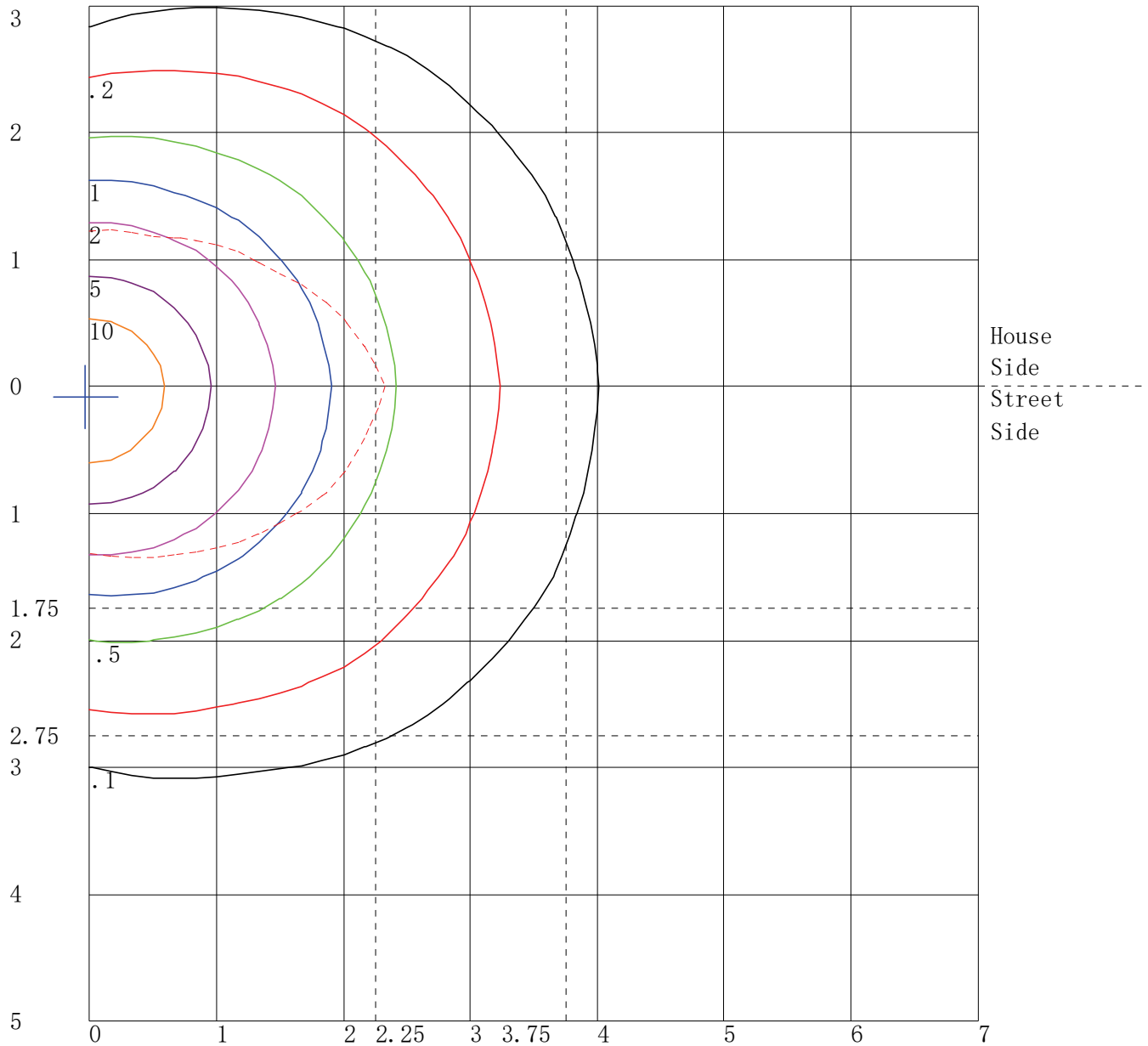
	Lumens	Percent Of Luminaire
Downward Street Side	2866.1	48.9
Downward House Side	2680.3	45.8
Downward Total	5546.4	94.7
Upward Street Side	159.9	2.7
Upward House Side	150.2	2.6
Upward Total	310.1	5.3
<b>Total Flux</b>	<b>5856.5</b>	<b>100.0</b>

POLAR GRAPH



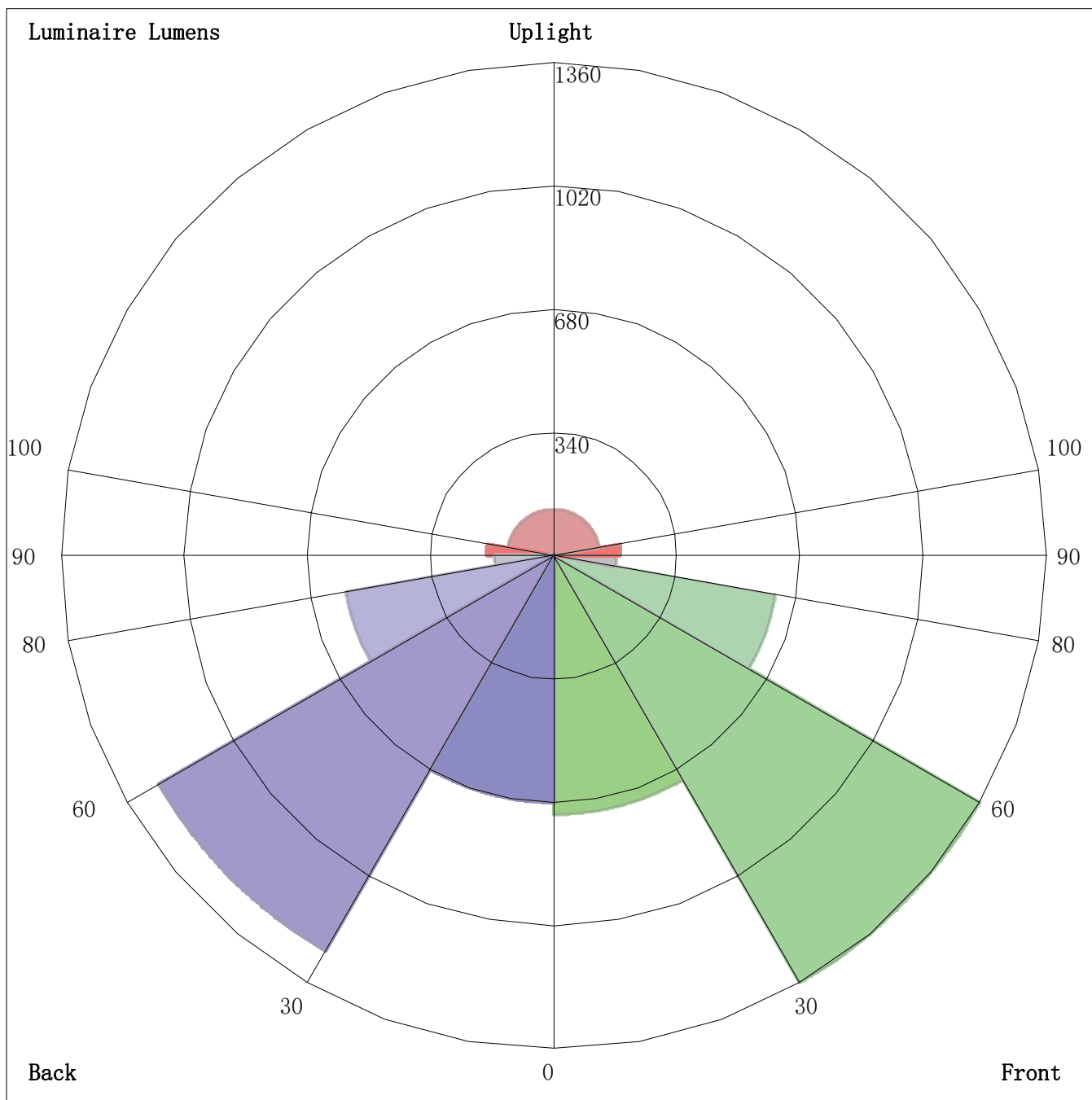
Maximum Candela = 1817.423 Located At Horizontal Angle = 337.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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



Luminaire Lumens:  
Front: Low=712.7, Medium=1359.9, High=621.6, Very High=171.8  
Back: Low=679.7, Medium=1258.7, High=581.0, Very High=160.8  
Uplight: Low=183.8, High=126.2

BUG Rating : B2-U3-G2