

## IES ROAD REPORT

PHOTOMETRIC FILENAME : NGRK-240W.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]  
 [TESTLAB]  
 [TESTDATE]  
 [ISSUEDATE]  
 [MANUFAC]  
 [LUMCAT]  
 [LUMINAIRE]  
 [LAMPCAT]  
 [LAMP]  
 [LumELE] 120.08 1.973 236.3 0.9976

### CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30271
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	236.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15255.91
Maximum Candela Angle	90H 5V
Maximum Candela (<90 Degrees Vertical)	15255.91
Maximum Candela Angle (<90 Degrees Vertical)	90H 5V
Maximum Candela At 90 Degrees Vertical	3.014 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	172.133 (0.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

### LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	5464.2	N.A.	18.1
FM - Front-Medium (30-60)	7270.9	N.A.	24.0
FH - Front-High (60-80)	674.4	N.A.	2.2
FVH - Front-Very High (80-90)	19.7	N.A.	0.1
BL - Back-Low (0-30)	5775.8	N.A.	19.1
BM - Back-Medium (30-60)	9277.4	N.A.	30.6
BH - Back-High (60-80)	1690.2	N.A.	5.6
BVH - Back-Very High (80-90)	39.5	N.A.	0.1
UL - Uplight-Low (90-100)	2.9	N.A.	0.0
UH - Uplight-High (100-180)	56.2	N.A.	0.2

Total                                      30271.2                      N.A.                      100.0

BUG Rating                                      B5-U3-G3

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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	15179.87015179.87015179.87015179.87015179.87015179.87015179.87015179.87015179.87015179.87015179.870									
5	14994.70014991.35014971.26015021.49015255.91015212.38015148.75015148.75015148.75015145.400									
10	14539.25014616.27014639.72014807.16015058.33015021.49014994.70014971.26014924.37014941.120									
15	13882.87013996.73014113.94014355.06014686.60014626.32014586.13014552.64014539.25014539.250									
20	12827.96013035.59013387.23013641.74014023.52014097.19014043.61014043.61013996.73013939.800									
25	11531.94011856.78012318.93012730.84013115.97013266.67013330.30013313.55013303.50013146.110									
30	10168.93010463.64011046.35011575.47012107.95012241.90012369.16012379.21012419.39012205.070									
35	8668.627 8996.819 9629.761 10306.24010808.58011053.04011250.63011290.82011217.14011039.650									
40	7302.276 7603.677 8233.270 9057.100 9519.248 9864.184 10008.19010088.5609974.698 9840.742									
45	5900.092 6223.595 6647.232 7670.655 8246.666 8591.603 8705.465 8822.676 8752.350 8534.671									
50	4542.113 4793.615 5495.879 6336.453 7020.969 7325.718 7459.674 7530.001 7496.512 7272.136									
55	3051.183 3413.199 4039.443 4882.696 5654.617 6002.903 6213.884 6260.768 6247.373 5959.367									
60	919.943 2086.699 2692.180 3371.003 4090.681 4586.318 4793.950 4911.162 4807.346 4576.272									
65	339.578 800.387 1243.447 1764.535 1957.432 3116.151 3367.319 3440.994 3186.478 3156.338									
70	185.529 263.893 377.756 531.470 481.907 1659.380 1940.687 1733.056 831.197 1672.775									
75	120.226 153.380 160.077 195.241 250.833 453.106 588.402 469.851 336.564 408.901									
80	71.666 77.360 74.346 86.737 118.886 158.068 172.133 172.133 155.389 167.110									
85	23.777 28.131 28.466 34.494 54.252 65.304 68.987 72.001 74.011 75.015									
90	2.344 2.344 2.679 2.679 2.344 3.014 3.014 2.679 2.679 3.014									
95	2.679 2.344 2.679 2.679 2.344 2.679 2.679 2.679 2.344 2.344									
100	3.684 3.349 3.349 3.014 2.344 2.679 2.679 2.344 2.344 2.679									
105	4.019 3.684 3.684 4.019 3.349 3.014 3.349 3.349 3.349 3.014									
110	5.693 5.693 5.023 4.688 4.354 3.684 4.019 3.684 3.684 3.684									
115	7.033 6.698 5.693 6.028 5.693 5.023 5.023 4.688 4.688 4.354									
120	9.042 8.037 8.037 7.033 7.033 6.698 6.028 5.358 5.358 5.693									
125	10.716 10.382 9.712 9.042 9.042 8.037 7.702 7.368 7.368 7.033									
130	12.726 12.726 11.386 10.716 10.716 9.712 9.377 9.042 9.377 9.377									
135	15.070 14.400 14.065 13.396 12.726 12.391 12.056 11.721 11.051 11.386									
140	17.079 16.075 15.405 14.735 15.070 14.400 14.065 13.730 13.396 13.730									
145	18.754 17.749 17.414 16.410 16.744 16.410 15.740 16.075 15.070 15.405									
150	20.428 19.759 18.754 18.419 18.754 18.419 18.419 17.414 17.414 17.414									
155	21.098 20.763 20.428 20.093 19.759 19.759 19.424 19.089 19.089 19.089									
160	22.103 21.768 20.763 20.763 21.098 20.428 19.759 20.093 20.093 19.759									
165	22.438 21.768 21.098 20.763 21.098 20.763 20.763 20.428 20.428 20.093									
170	22.103 22.103 21.433 21.098 21.098 21.098 20.763 20.763 20.763 20.763									
175	22.773 22.103 22.103 21.768 21.768 21.768 21.433 21.098 21.433 21.433									
180	23.521 23.521 23.521 23.521 23.521 23.521 23.521 23.521 23.521 23.521									

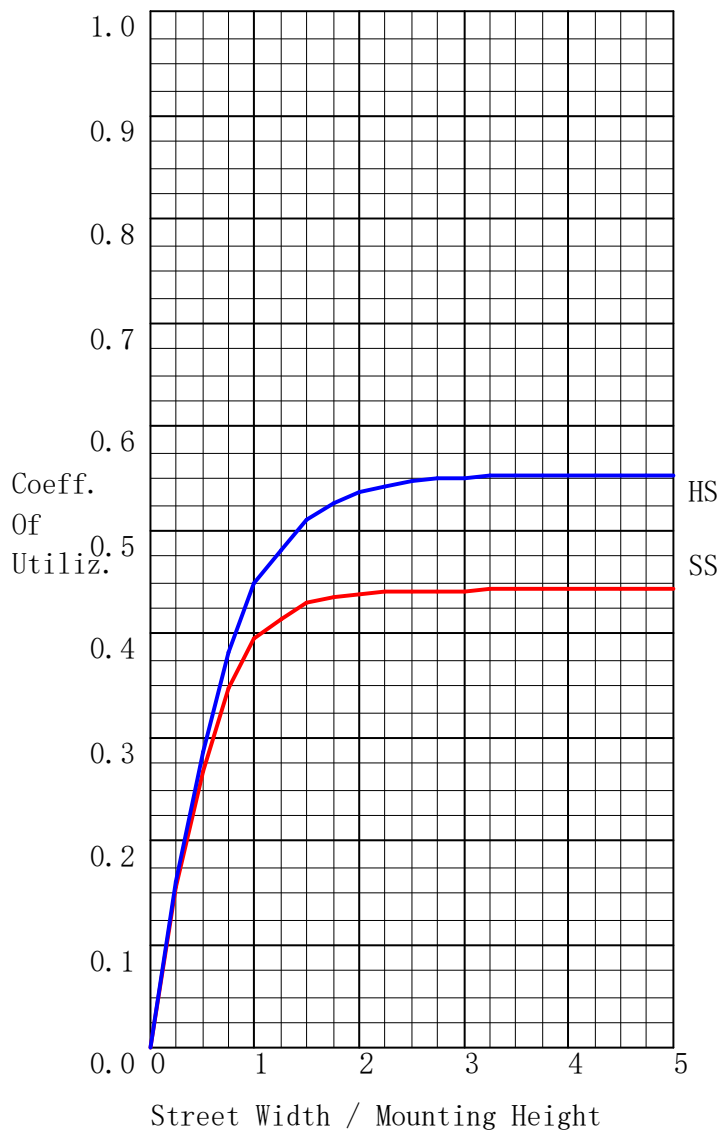
Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	15179.87015179.87015179.87015179.87015179.87015179.87015179.870						
5	15091.82015034.89015138.70015038.23014954.51014914.33014994.700						
10	14860.74014720.09014817.21014643.06014535.90014462.22014539.250						
15	14438.78014281.38014288.08014006.77013842.68013799.14013882.870						
20	13822.58013648.44013501.09013223.13013025.55012814.57012827.960						
25	12992.06012707.40012446.19012138.09011900.32011541.98011531.940						
30	11973.99011592.22011287.47010902.34010530.62010178.98010168.930						
35	10801.88010373.22010038.3309616.366 9103.984 8738.954 8668.627						
40	9512.550 9147.520 8718.861 8293.550 7717.540 7359.208 7302.276						
45	8239.968 7955.311 7389.348 6675.697 6265.791 5955.684 5900.092						
50	6974.084 6726.265 6218.237 5638.208 4915.850 4569.574 4542.113						
55	5681.409 5406.799 4736.684 4132.207 3602.412 3171.408 3051.183						
60	4291.615 3889.747 2701.892 2638.933 2227.018 1698.897 919.943						
65	2844.890 2211.948 713.985 1081.025 823.160 492.623 339.578						
70	1237.753 708.962 355.988 352.304 319.820 226.051 185.529						
75	355.988 281.308 201.269 178.161 166.105 134.626 120.226						

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**CANDELA TABULATION - (Cont.)**

<b>80</b>	157.063	129.937	94.774	76.690	68.987	74.011	71.666
<b>85</b>	72.336	62.959	43.536	32.819	26.121	27.126	23.777
<b>90</b>	3.014	2.679	2.344	2.679	2.679	2.344	2.344
<b>95</b>	2.344	2.344	2.344	3.014	3.014	2.679	2.679
<b>100</b>	3.014	2.344	3.014	3.684	3.684	3.014	3.684
<b>105</b>	3.349	3.349	4.019	4.354	4.688	4.688	4.019
<b>110</b>	4.019	4.019	5.693	5.693	5.693	5.358	5.693
<b>115</b>	4.688	5.358	7.033	7.368	7.033	6.698	7.033
<b>120</b>	6.698	7.033	9.042	8.707	9.042	9.042	9.042
<b>125</b>	7.702	8.372	11.051	10.716	10.716	11.051	10.716
<b>130</b>	9.377	10.716	12.726	13.061	13.396	13.061	12.726
<b>135</b>	11.721	12.056	14.735	15.070	15.405	15.070	15.070
<b>140</b>	14.065	14.400	16.410	16.410	17.079	16.744	17.079
<b>145</b>	15.740	16.410	18.419	18.754	18.754	18.754	18.754
<b>150</b>	17.414	18.084	20.093	20.093	19.759	20.428	20.428
<b>155</b>	19.089	19.424	21.098	21.098	21.433	21.433	21.098
<b>160</b>	20.093	20.093	21.768	21.768	22.438	22.103	22.103
<b>165</b>	21.098	20.763	22.438	22.103	22.773	22.773	22.438
<b>170</b>	20.763	20.428	22.103	22.103	22.773	22.438	22.103
<b>175</b>	21.098	21.433	22.773	23.107	22.773	22.773	22.773
<b>180</b>	23.521	23.521	23.521	23.521	23.521	23.521	23.521

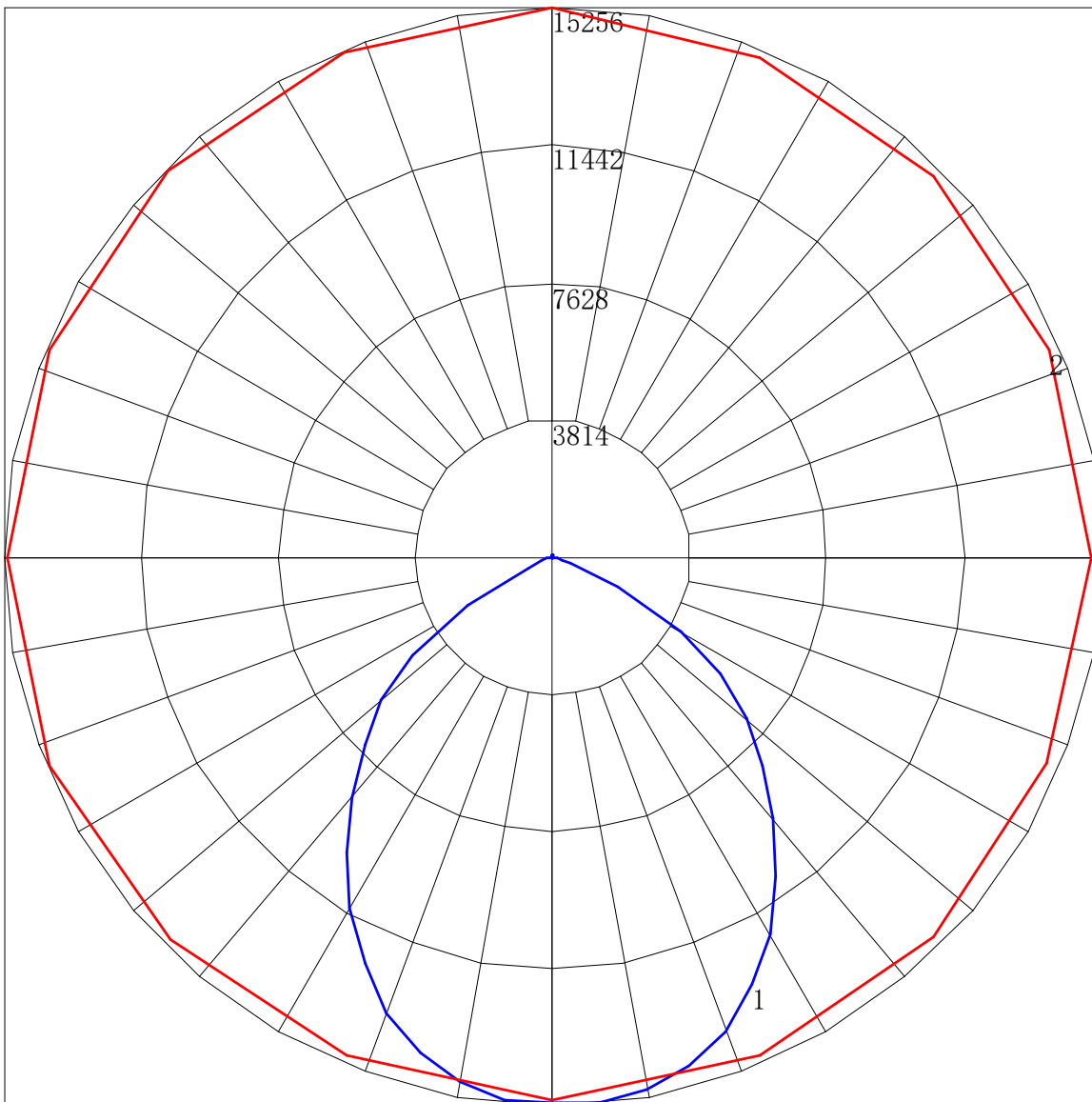
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

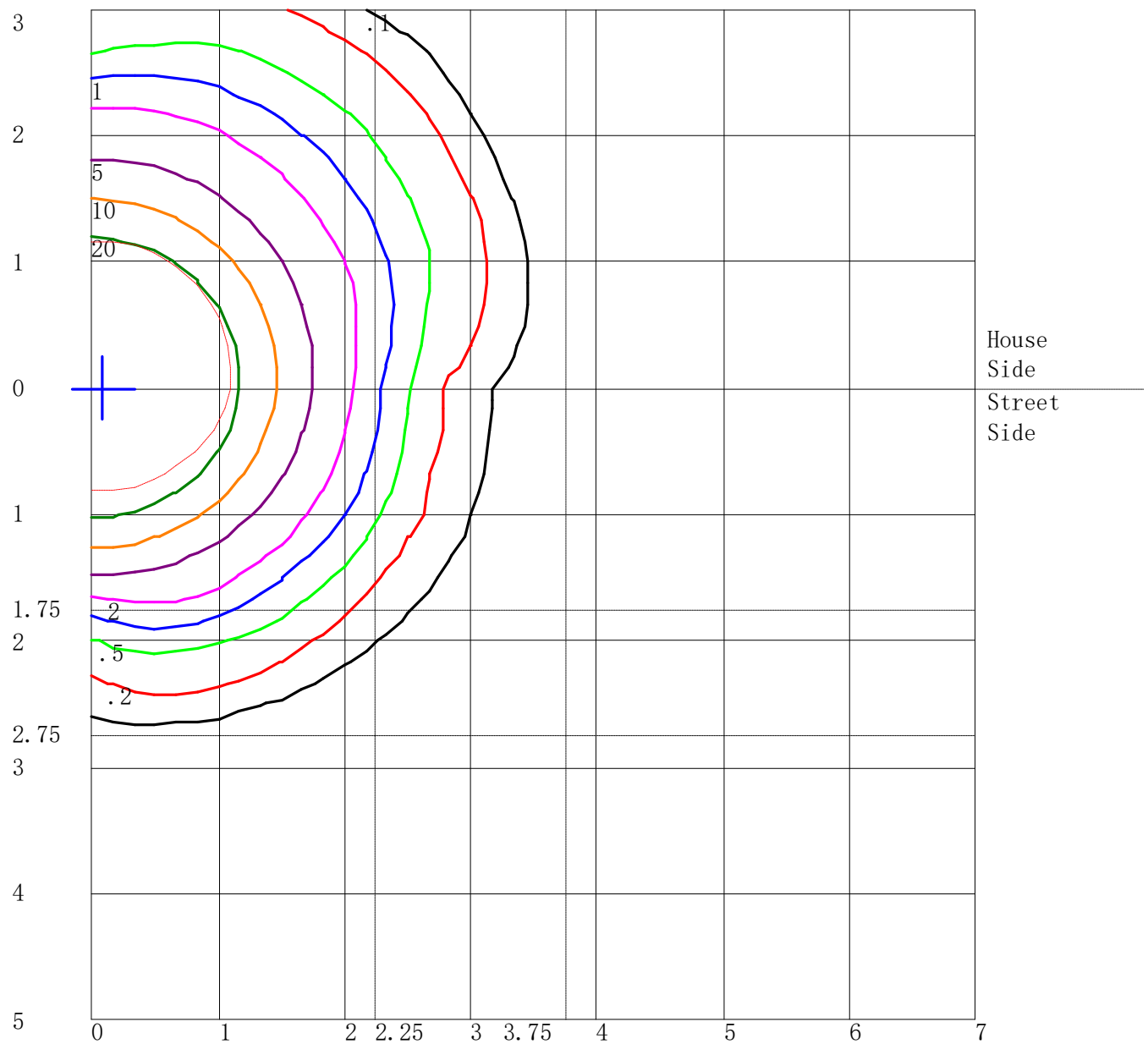
	Lumens	Percent Of Luminaire
Downward Street Side	13429.2	44.4
Downward House Side	16782.8	55.4
Downward Total	30212.0	99.8
Upward Street Side	31.8	0.1
Upward House Side	27.3	0.1
Upward Total	59.1	0.2
<b>Total Flux</b>	<b>30271.1</b>	<b>100.0</b>

POLAR GRAPH



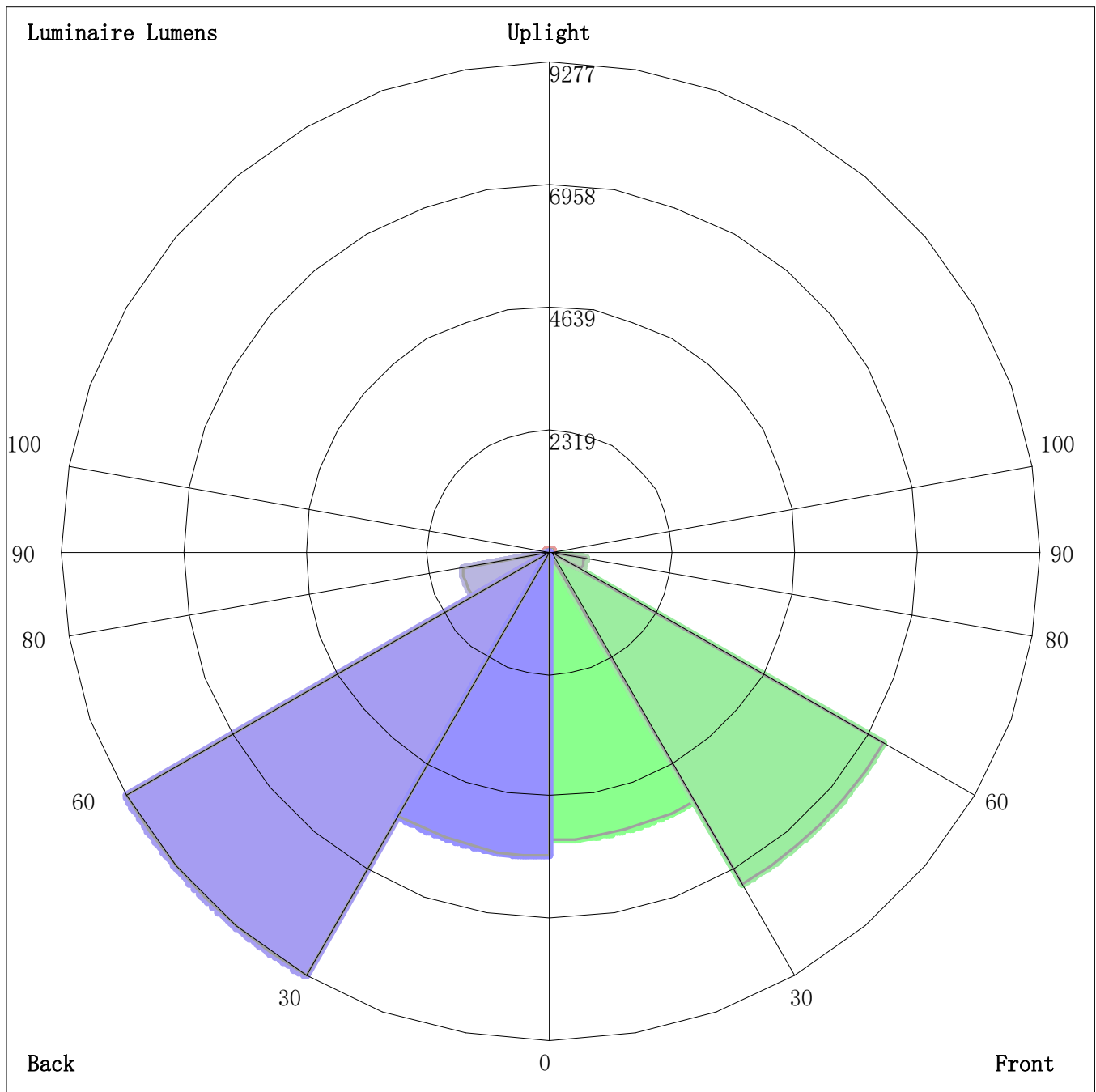
Maximum Candela = 15255.91 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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=5464.2, Medium=7270.9, High=674.4, Very High=19.7  
Back: Low=5775.8, Medium=9277.4, High=1690.2, Very High=39.5  
Uplight: Low=2.9, High=56.2

BUG Rating : B5-U3-G3