

IES ROAD REPORT

PHOTOMETRIC FILENAME : NGRK-240WH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB]
 [TESTDATE]
 [ISSUEDATE]
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE]
 [LAMPCAT]
 [LAMP]
 [LumELE] 277.06 0.848 232.55 0.9903

CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30199
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	232.55
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15128.55
Maximum Candela Angle	202.5H 5V
Maximum Candela (<90 Degrees Vertical)	15128.55
Maximum Candela Angle (<90 Degrees Vertical)	202.5H 5V
Maximum Candela At 90 Degrees Vertical	3.386 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	173.004 (0.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	5442.5	N.A.	18.0
FM - Front-Medium (30-60)	7251.9	N.A.	24.0
FH - Front-High (60-80)	668.7	N.A.	2.2
FVH - Front-Very High (80-90)	19.6	N.A.	0.1
BL - Back-Low (0-30)	5756.4	N.A.	19.1
BM - Back-Medium (30-60)	9265.4	N.A.	30.7
BH - Back-High (60-80)	1696.0	N.A.	5.6
BVH - Back-Very High (80-90)	39.6	N.A.	0.1
UL - Uplight-Low (90-100)	2.9	N.A.	0.0
UH - Uplight-High (100-180)	56.0	N.A.	0.2

Total	30199.0	N.A.	100.0
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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	15118.800	15118.800	15118.800	15118.800	15118.800	15118.800	15118.800	15118.800	15118.800	15118.800
5	14938.960	14962.660	14993.130	15037.140	15084.540	15077.770	15054.070	15067.610	15101.470	15128.550
10	14485.290	14613.940	14661.340	14837.390	14884.790	14898.330	14884.790	14911.870	14884.790	14925.420
15	13828.480	13994.380	14109.490	14404.030	14529.300	14498.830	14502.220	14495.450	14492.060	14525.920
20	12789.100	13039.640	13398.510	13679.520	13875.880	13967.290	13963.910	13967.290	13953.750	13923.280
25	11505.960	11824.210	12338.820	12728.160	12978.700	13175.060	13263.090	13266.470	13256.320	13144.590
30	10138.180	10469.970	11025.210	11610.910	11956.250	12156.000	12318.500	12348.970	12403.140	12216.940
35	8658.672	9010.774	9613.411	10331.160	10703.570	10987.960	11208.030	11265.580	11214.800	11048.910
40	7314.589	7565.123	8259.171	9048.016	9423.817	9803.005	9975.670	10114.480	9972.285	9847.017
45	5901.778	6236.614	6753.595	7700.547	8167.760	8536.790	8722.998	8814.409	8756.854	8540.176
50	4535.011	4798.749	5465.374	6365.267	6952.329	7317.974	7439.856	7517.725	7497.411	7287.504
55	3037.899	3418.779	4055.949	4911.829	5591.318	5970.506	6153.328	6258.282	6261.667	5977.277
60	900.570	2044.902	2705.433	3345.989	4054.256	4562.096	4792.317	4917.584	4822.787	4589.181
65	339.914	795.616	1245.901	1782.857	1863.773	3106.288	3370.365	3455.005	3207.856	3170.614
70	185.531	263.400	365.645	537.633	479.062	1714.806	1958.570	1758.819	848.770	1691.107
75	122.897	155.060	160.816	198.058	249.857	455.363	568.442	477.708	341.607	412.705
80	71.775	75.499	74.822	85.317	118.496	158.446	172.666	173.004	156.415	167.587
85	23.699	28.100	28.778	34.872	53.492	65.004	69.066	72.113	74.145	75.160
90	2.370	2.370	2.708	2.370	2.708	3.386	3.047	2.708	2.708	2.708
95	2.708	2.708	2.031	2.708	2.031	2.370	2.370	2.370	2.370	2.370
100	3.386	3.047	3.386	2.708	2.708	2.708	2.370	2.708	2.031	2.370
105	4.401	4.401	4.063	3.724	3.047	3.047	3.047	3.047	2.708	3.047
110	5.417	5.417	4.740	4.401	4.063	3.724	4.063	3.386	3.386	3.386
115	7.110	6.771	6.094	5.756	5.756	4.740	4.740	4.401	4.063	4.063
120	9.141	8.464	7.787	7.110	7.110	6.433	6.094	5.756	5.417	5.078
125	10.495	10.157	9.818	9.141	8.803	8.125	7.787	7.110	7.110	7.110
130	13.204	12.527	11.511	11.172	11.172	9.818	9.818	9.480	9.141	9.141
135	14.558	14.558	13.881	13.204	12.865	12.188	12.188	11.511	10.834	11.511
140	16.928	16.251	15.574	15.235	14.558	14.558	14.220	13.881	13.542	13.542
145	18.621	17.944	17.605	16.589	16.589	15.912	16.251	15.235	15.235	15.235
150	20.314	19.636	19.298	18.282	18.621	17.944	17.944	17.944	17.605	17.267
155	21.668	20.991	20.314	19.975	20.314	19.636	19.636	19.636	18.959	18.959
160	22.345	21.668	20.991	20.314	20.652	20.652	20.314	20.314	19.975	19.975
165	22.345	22.006	21.329	20.652	20.991	20.652	20.991	20.652	20.314	20.314
170	22.345	22.006	21.668	21.329	20.991	20.991	20.991	20.991	20.314	20.652
175	22.684	22.345	22.345	22.345	22.006	21.668	21.668	21.329	21.329	21.329
180	23.420	23.420	23.420	23.420	23.420	23.420	23.420	23.420	23.420	23.420

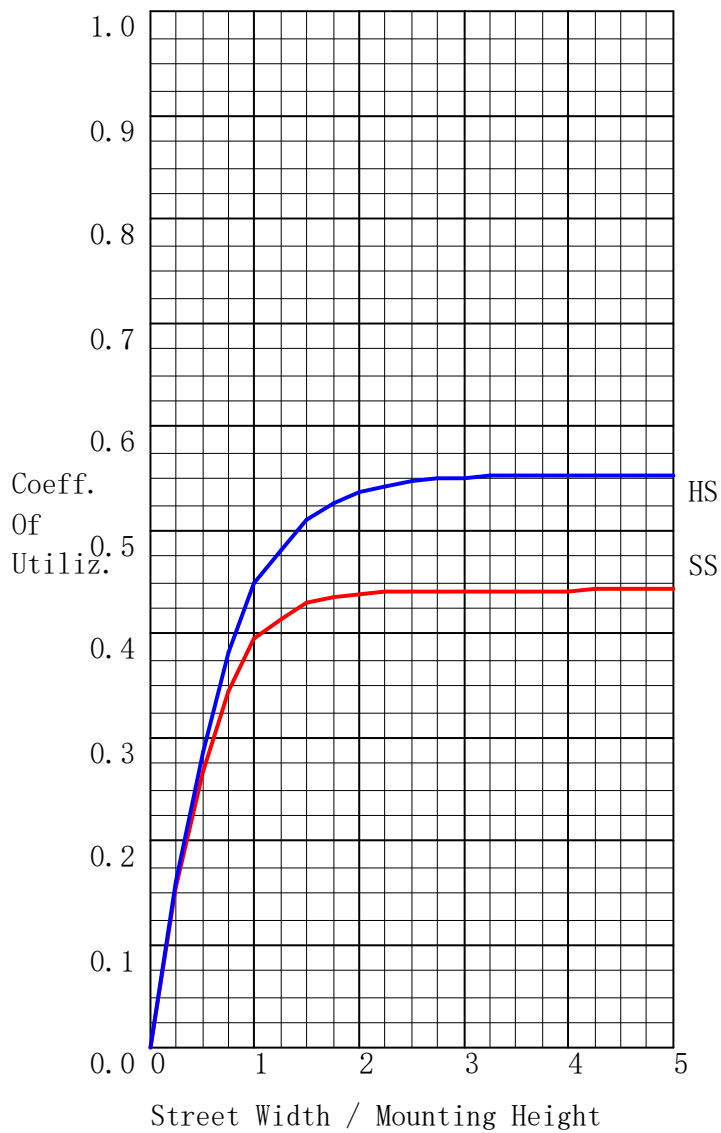
Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	15118.800	15118.800	15118.800	15118.800	15118.800	15118.800	15118.800
5	15111.630	15067.610	14969.430	14898.330	14847.550	14837.390	14938.960
10	14881.410	14749.370	14651.180	14505.600	14427.740	14390.490	14485.290
15	14458.210	14332.940	14129.800	13879.270	13747.230	13730.300	13828.480
20	13842.030	13676.130	13354.500	13103.960	12931.300	12755.250	12789.100
25	13039.640	12745.090	12315.120	12027.340	11861.450	11529.660	11505.960
30	12020.570	11661.700	11170.790	10805.140	10422.570	10138.180	10138.180
35	10811.910	10432.730	9924.887	9525.386	9044.630	8709.456	8658.672
40	9532.157	9169.897	8618.045	8228.701	7673.463	7351.830	7314.589
45	8242.243	7974.781	7358.602	6746.147	6270.470	5979.985	5901.778
50	7020.042	6789.821	6146.218	5593.011	4839.038	4541.782	4535.011
55	5689.501	5411.881	4689.733	4139.573	3575.871	3154.025	3037.899
60	4298.019	3895.133	2675.301	2619.439	2200.640	1678.581	900.570
65	2852.368	2209.104	706.236	1061.386	800.694	483.464	339.914
70	1289.575	704.543	353.118	347.701	315.199	225.142	185.531
75	356.842	287.776	200.089	181.807	164.540	134.747	122.897

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CANDELA TABULATION - (Cont.)

80	157.430	133.393	93.443	76.176	68.051	73.129	71.775
85	74.145	62.295	45.028	32.163	27.762	27.085	23.699
90	2.708	3.047	2.031	2.370	2.370	2.370	2.370
95	2.370	2.370	2.370	2.708	3.047	3.047	2.708
100	2.708	2.708	3.386	3.047	3.386	3.386	3.386
105	3.047	3.724	4.063	4.401	4.740	4.401	4.401
110	4.063	4.401	5.078	5.417	5.417	5.417	5.417
115	4.401	5.417	6.771	6.771	7.448	7.448	7.110
120	6.094	6.771	8.464	8.803	9.141	8.464	9.141
125	7.787	8.803	10.495	10.834	10.834	10.834	10.495
130	9.818	10.157	12.527	12.527	13.542	13.204	13.204
135	11.850	12.527	14.897	15.235	15.235	14.897	14.558
140	13.542	14.558	16.589	16.589	16.928	16.928	16.928
145	15.574	16.251	18.282	18.282	18.959	18.959	18.621
150	17.605	17.944	19.975	19.975	20.314	19.975	20.314
155	19.636	19.975	20.991	20.991	21.329	21.668	21.668
160	19.975	20.314	22.006	21.668	22.684	22.345	22.345
165	20.652	20.652	21.668	22.006	22.684	22.684	22.345
170	20.652	20.314	21.668	22.006	22.345	22.006	22.345
175	21.329	21.329	22.684	23.022	23.022	22.684	22.684
180	23.420	23.420	23.420	23.420	23.420	23.420	23.420

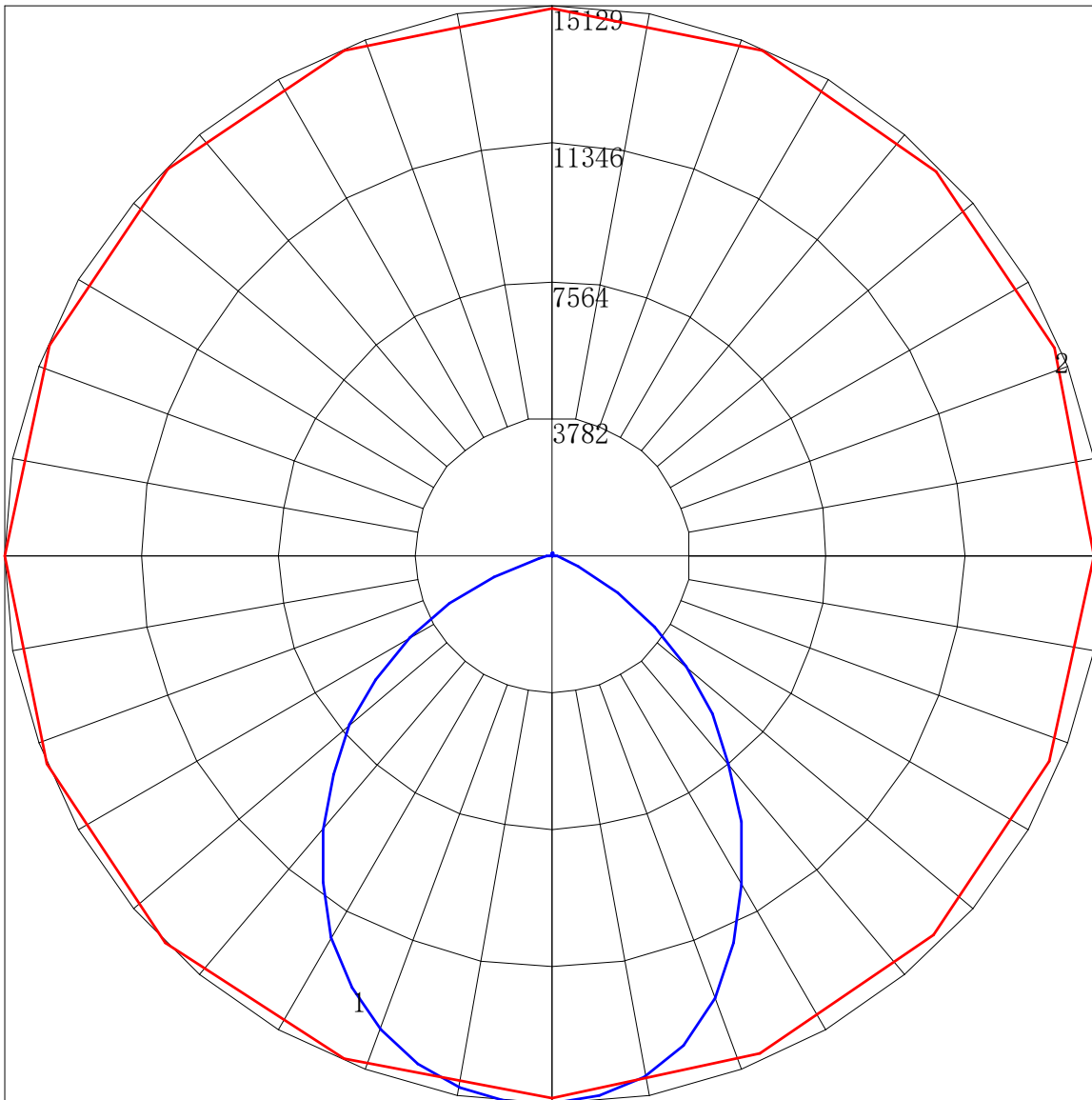
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

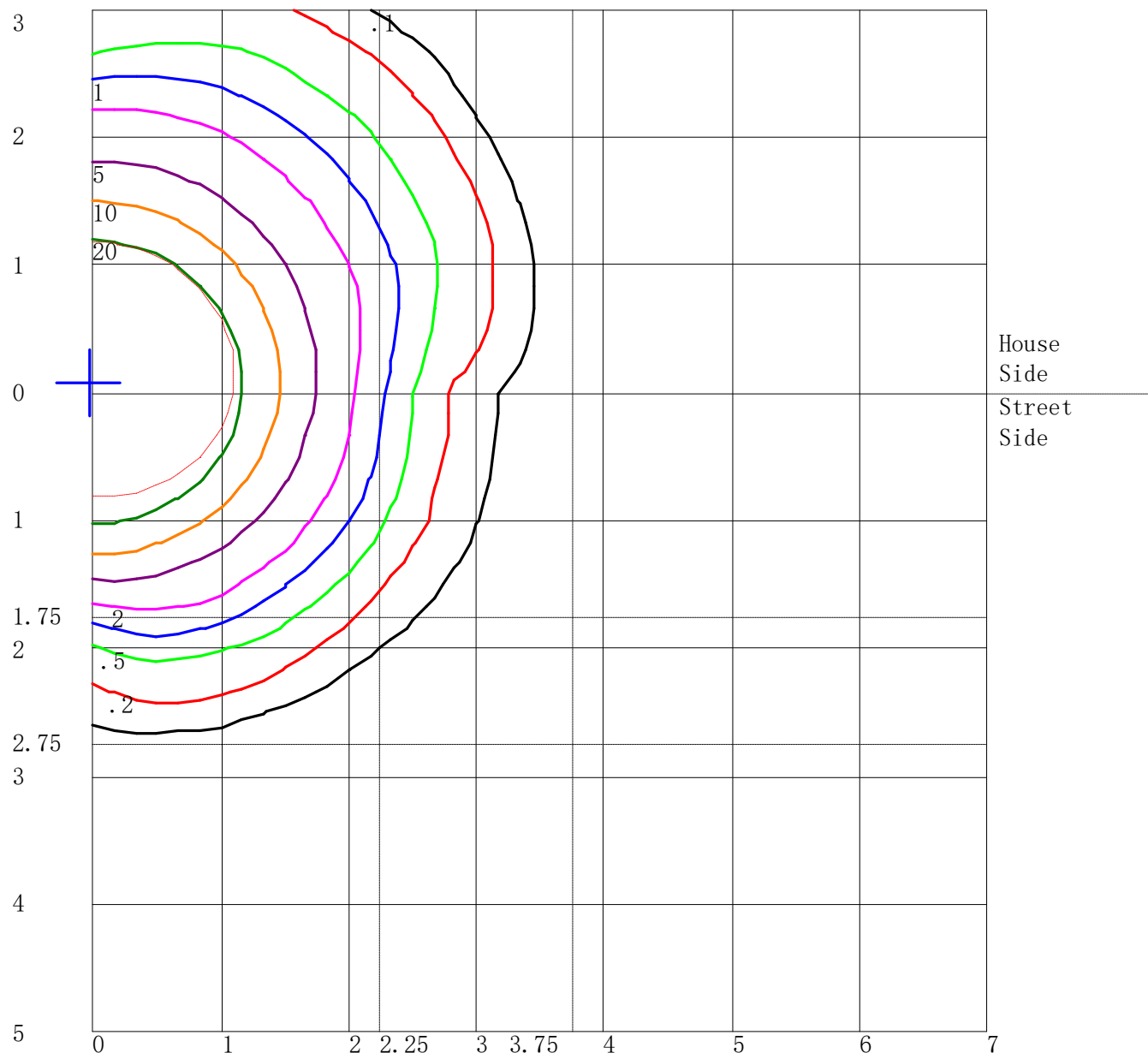
	Lumens	Percent Of Luminaire
Downward Street Side	13382.7	44.3
Downward House Side	16757.4	55.5
Downward Total	30140.1	99.8
Upward Street Side	31.8	0.1
Upward House Side	27.1	0.1
Upward Total	58.9	0.2
Total Flux	30199.0	100.0

POLAR GRAPH



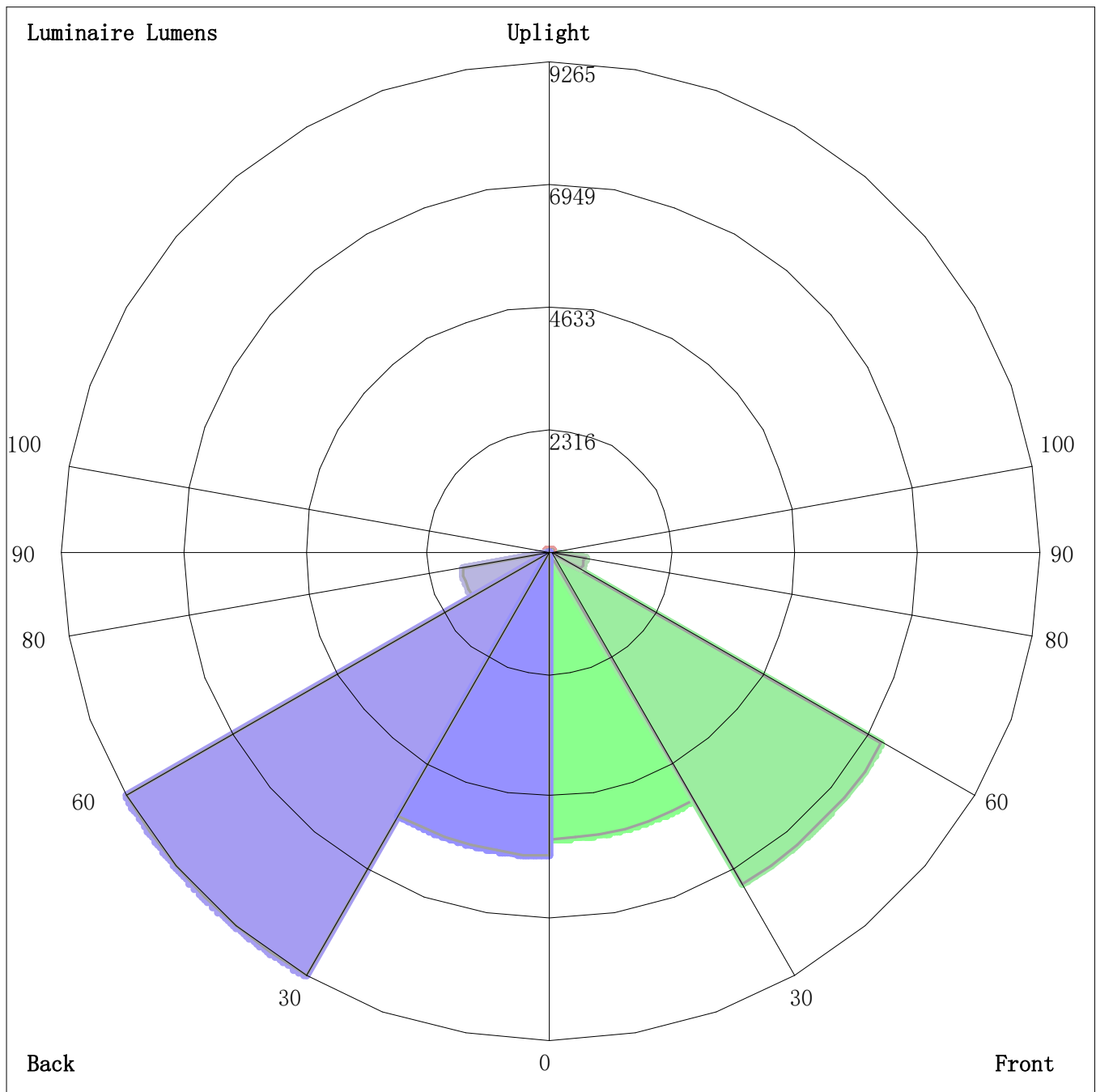
Maximum Candela = 15128.55 Located At Horizontal Angle = 202.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (202.5 - 22.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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=5442.5, Medium=7251.9, High=668.7, Very High=19.6
 Back: Low=5756.4, Medium=9265.4, High= 1696.0, Very High=39.6
 Uplight: Low=2.9, High=56.0

BUG Rating : B5-U3-G3