



IES ROAD REPORT
PHOTOMETRIC FILENAME : MCOWP-64-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 2860
[TESTLAB] TUV SUD America
[TESTDATE] 1/19/2016 1:11:40 PM
[MANUFAC]LSI INDUSTRIES, INC
[ISSUEDATE] 5/1/2017
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[LUMCAT] MCOWP-64-45

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8129
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	62.16
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2882.72
Maximum Candela Angle	270H 5V
Maximum Candela (<90 Degrees Vertical)	2882.72
Maximum Candela Angle (<90 Degrees Vertical)	270H 5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	185.9 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1147.8	N.A.	14.1
FM - Front-Medium (30-60)	2283.5	N.A.	28.1
FH - Front-High (60-80)	696.7	N.A.	8.6
FVH - Front-Very High (80-90)	18.5	N.A.	0.2
BL - Back-Low (0-30)	1137.7	N.A.	14.0
BM - Back-Medium (30-60)	2194.9	N.A.	27.0
BH - Back-High (60-80)	636.4	N.A.	7.8
BVH - Back-Very High (80-90)	13.6	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	8129.1	N.A.	100.0
BUG Rating	B3-U0-G1		

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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>
0.0	2871.39	2871.39	2871.39	2871.39	2871.39	2871.39	2871.39	2871.39	2871.39	2871.39
2.5	2873.29	2875.84	2871.79	2873.02	2875.19	2872.40	2865.16	2866.72	2863.00	2866.72
5.0	2868.78	2869.49	2871.11	2874.79	2882.72	2876.60	2869.80	2854.58	2856.13	2854.58
7.5	2859.61	2862.56	2866.10	2872.68	2878.31	2871.16	2861.19	2846.80	2841.17	2846.80
10.0	2842.67	2847.43	2856.23	2864.87	2862.98	2859.28	2845.61	2829.80	2821.13	2829.80
12.5	2817.18	2825.18	2839.23	2848.09	2837.46	2839.76	2823.74	2804.04	2794.28	2804.04
15.0	2786.56	2799.28	2816.02	2822.63	2813.45	2814.19	2795.38	2773.49	2761.89	2773.49
17.5	2753.95	2769.70	2788.28	2794.45	2789.88	2783.89	2760.08	2740.05	2729.92	2740.05
20.0	2716.76	2734.62	2754.36	2763.61	2754.60	2748.06	2719.35	2701.39	2696.62	2701.39
22.5	2670.41	2694.77	2713.91	2726.33	2715.06	2708.66	2676.63	2655.23	2651.63	2655.23
25.0	2617.65	2648.97	2668.67	2683.96	2674.58	2663.71	2628.88	2601.85	2597.01	2601.85
27.5	2571.90	2597.13	2619.27	2635.01	2627.74	2611.80	2575.13	2540.68	2532.93	2540.68
30.0	2507.00	2540.02	2565.77	2579.00	2568.88	2551.67	2517.11	2476.61	2468.70	2476.61
32.5	2434.62	2474.70	2506.71	2517.22	2505.47	2485.86	2450.89	2408.61	2399.72	2408.61
35.0	2368.96	2404.85	2440.89	2451.80	2438.42	2419.08	2381.84	2336.26	2331.62	2336.26
37.5	2293.81	2332.80	2367.90	2381.47	2365.87	2345.76	2305.11	2253.20	2249.50	2253.20
40.0	2212.99	2252.84	2288.56	2301.68	2290.86	2265.45	2214.93	2160.90	2153.10	2160.90
42.5	2115.45	2167.04	2203.24	2216.56	2208.17	2178.45	2124.60	2053.64	2038.32	2053.64
45.0	2002.64	2071.13	2112.30	2125.07	2117.24	2084.00	2029.94	1932.63	1910.08	1932.63
47.5	1885.01	1958.13	2017.99	2033.76	2019.81	1986.64	1923.31	1800.18	1777.02	1800.18
50.0	1752.26	1830.87	1914.04	1928.38	1912.89	1881.29	1803.78	1657.39	1640.22	1657.39
52.5	1580.08	1693.21	1798.24	1822.44	1794.83	1761.89	1670.10	1515.46	1511.21	1515.46
55.0	1439.98	1524.38	1669.40	1695.60	1662.72	1630.67	1525.69	1383.88	1380.84	1383.88
57.5	1322.83	1377.60	1528.41	1557.61	1512.61	1485.52	1372.82	1253.36	1250.05	1253.36
60.0	1194.28	1252.73	1376.82	1400.93	1354.13	1330.48	1215.80	1124.72	1124.82	1124.72
62.5	974.18	1093.02	1200.89	1241.43	1206.56	1176.14	1058.93	994.88	999.01	994.88
65.0	835.61	909.40	1020.68	1089.49	1063.40	1021.60	895.01	846.92	847.35	846.92
67.5	661.78	757.95	856.67	940.14	919.86	867.06	735.22	678.77	667.76	678.77
70.0	532.92	595.09	678.68	782.72	763.78	702.51	598.25	519.85	525.04	519.85
72.5	376.20	442.15	516.56	626.79	619.56	550.11	456.66	366.45	367.07	366.45
75.0	248.81	304.15	383.15	468.46	471.84	404.22	315.93	232.66	232.43	232.66
77.5	144.92	184.07	252.17	318.79	316.46	270.89	200.25	126.45	132.53	126.45
80.0	60.09	91.34	143.31	185.90	180.82	155.47	102.38	49.53	51.80	49.53
82.5	14.87	30.84	61.00	79.61	79.47	62.61	35.69	12.14	10.58	12.14
85.0	1.60	6.03	14.43	21.97	18.64	13.45	6.04	1.99	2.77	1.99
87.5	0.00	0.57	1.27	1.94	0.78	0.98	0.48	0.23	0.35	0.23
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

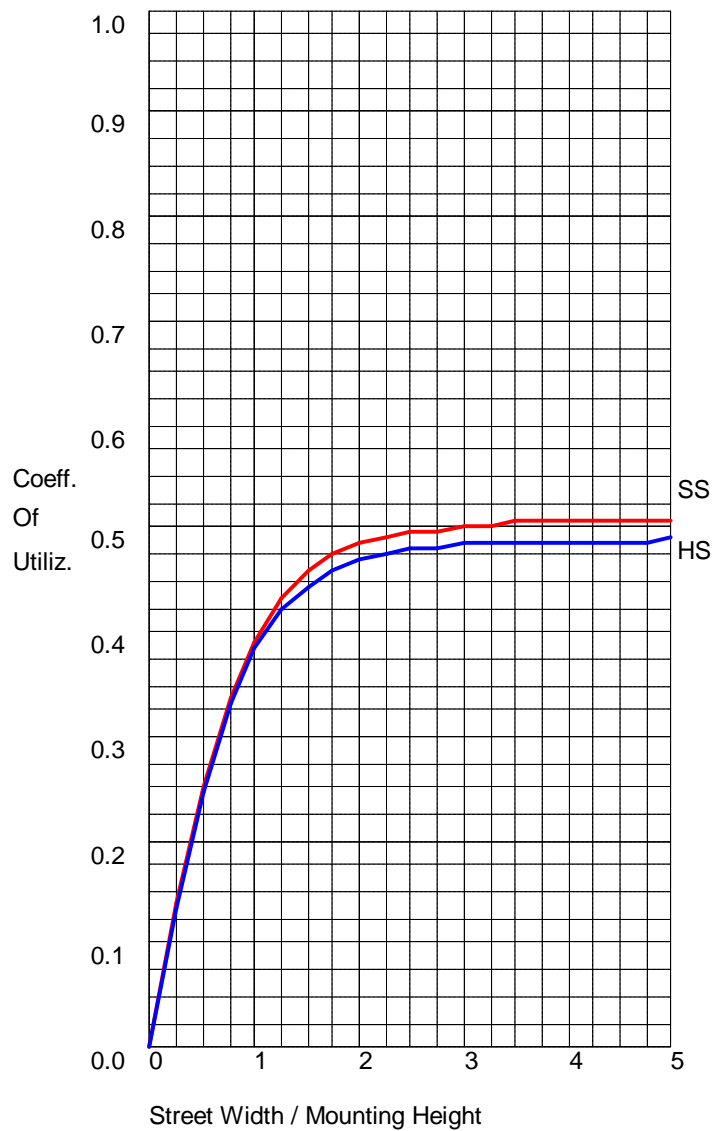
Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	2871.39	2871.39	2871.39	2871.39	2871.39	2871.39	2871.39
2.5	2865.16	2872.40	2875.19	2873.02	2871.79	2875.84	2873.29
5.0	2869.80	2876.60	2882.72	2874.79	2871.11	2869.49	2868.78
7.5	2861.19	2871.16	2878.31	2872.68	2866.10	2862.56	2859.61
10.0	2845.61	2859.28	2862.98	2864.87	2856.23	2847.43	2842.67
12.5	2823.74	2839.76	2837.46	2848.09	2839.23	2825.18	2817.18
15.0	2795.38	2814.19	2813.45	2822.63	2816.02	2799.28	2786.56
17.5	2760.08	2783.89	2789.88	2794.45	2788.28	2769.70	2753.95
20.0	2719.35	2748.06	2754.60	2763.61	2754.36	2734.62	2716.76
22.5	2676.63	2708.66	2715.06	2726.33	2713.91	2694.77	2670.41
25.0	2628.88	2663.71	2674.58	2683.96	2668.67	2648.97	2617.65
27.5	2575.13	2611.80	2627.74	2635.01	2619.27	2597.13	2571.90

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CANDELA TABULATION - (Cont.)

30.0	2517.11	2551.67	2568.88	2579.00	2565.77	2540.02	2507.00
32.5	2450.89	2485.86	2505.47	2517.22	2506.71	2474.70	2434.62
35.0	2381.84	2419.08	2438.42	2451.80	2440.89	2404.85	2368.96
37.5	2305.11	2345.76	2365.87	2381.47	2367.90	2332.80	2293.81
40.0	2214.93	2265.45	2290.86	2301.68	2288.56	2252.84	2212.99
42.5	2124.60	2178.45	2208.17	2216.56	2203.24	2167.04	2115.45
45.0	2029.94	2084.00	2117.24	2125.07	2112.30	2071.13	2002.64
47.5	1923.31	1986.64	2019.81	2033.76	2017.99	1958.13	1885.01
50.0	1803.78	1881.29	1912.89	1928.38	1914.04	1830.87	1752.26
52.5	1670.10	1761.89	1794.83	1822.44	1798.24	1693.21	1580.08
55.0	1525.69	1630.67	1662.72	1695.60	1669.40	1524.38	1439.98
57.5	1372.82	1485.52	1512.61	1557.61	1528.41	1377.60	1322.83
60.0	1215.80	1330.48	1354.13	1400.93	1376.82	1252.73	1194.28
62.5	1058.93	1176.14	1206.56	1241.43	1200.89	1093.02	974.18
65.0	895.01	1021.60	1063.40	1089.49	1020.68	909.40	835.61
67.5	735.22	867.06	919.86	940.14	856.67	757.95	661.78
70.0	598.25	702.51	763.78	782.72	678.68	595.09	532.92
72.5	456.66	550.11	619.56	626.79	516.56	442.15	376.20
75.0	315.93	404.22	471.84	468.46	383.15	304.15	248.81
77.5	200.25	270.89	316.46	318.79	252.17	184.07	144.92
80.0	102.38	155.47	180.82	185.90	143.31	91.34	60.09
82.5	35.69	62.61	79.47	79.61	61.00	30.84	14.87
85.0	6.04	13.45	18.64	21.97	14.43	6.03	1.60
87.5	0.48	0.98	0.78	1.94	1.27	0.57	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

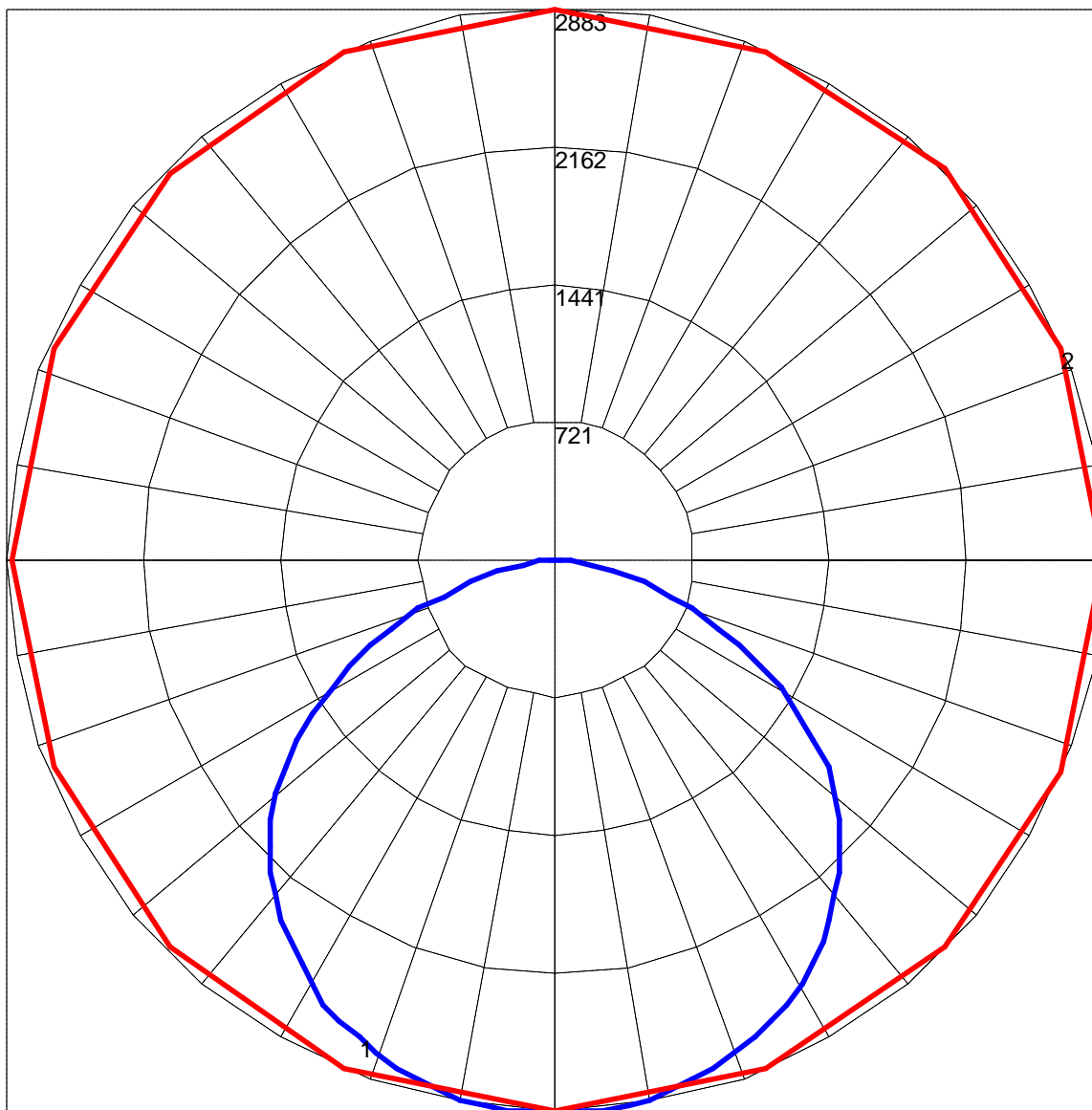
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

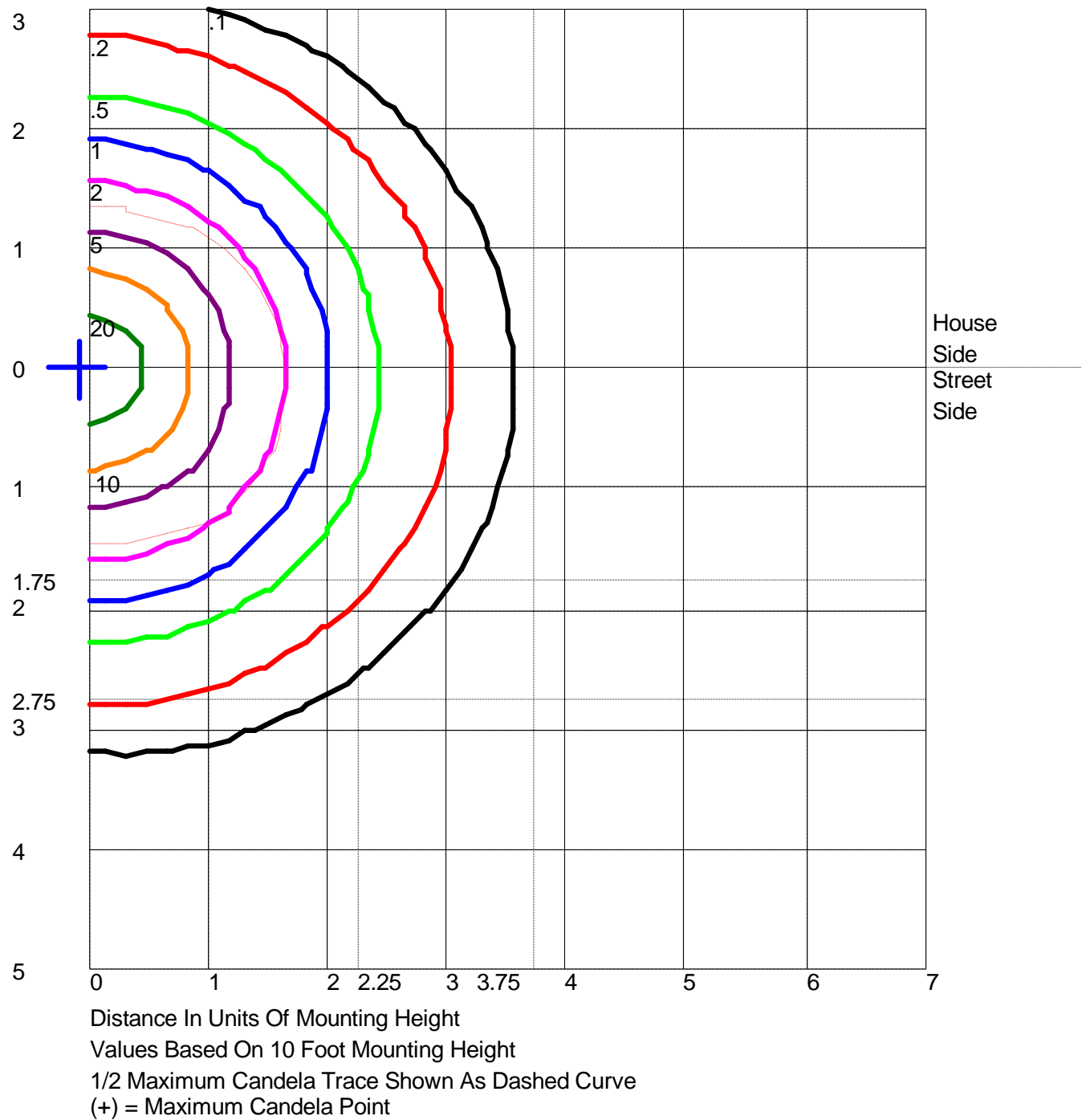
	Lumens	Percent Of Luminaire
Downward Street Side	4146.6	51.0
Downward House Side	3982.6	49.0
Downward Total	8129.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8129.2	100.0

POLAR GRAPH

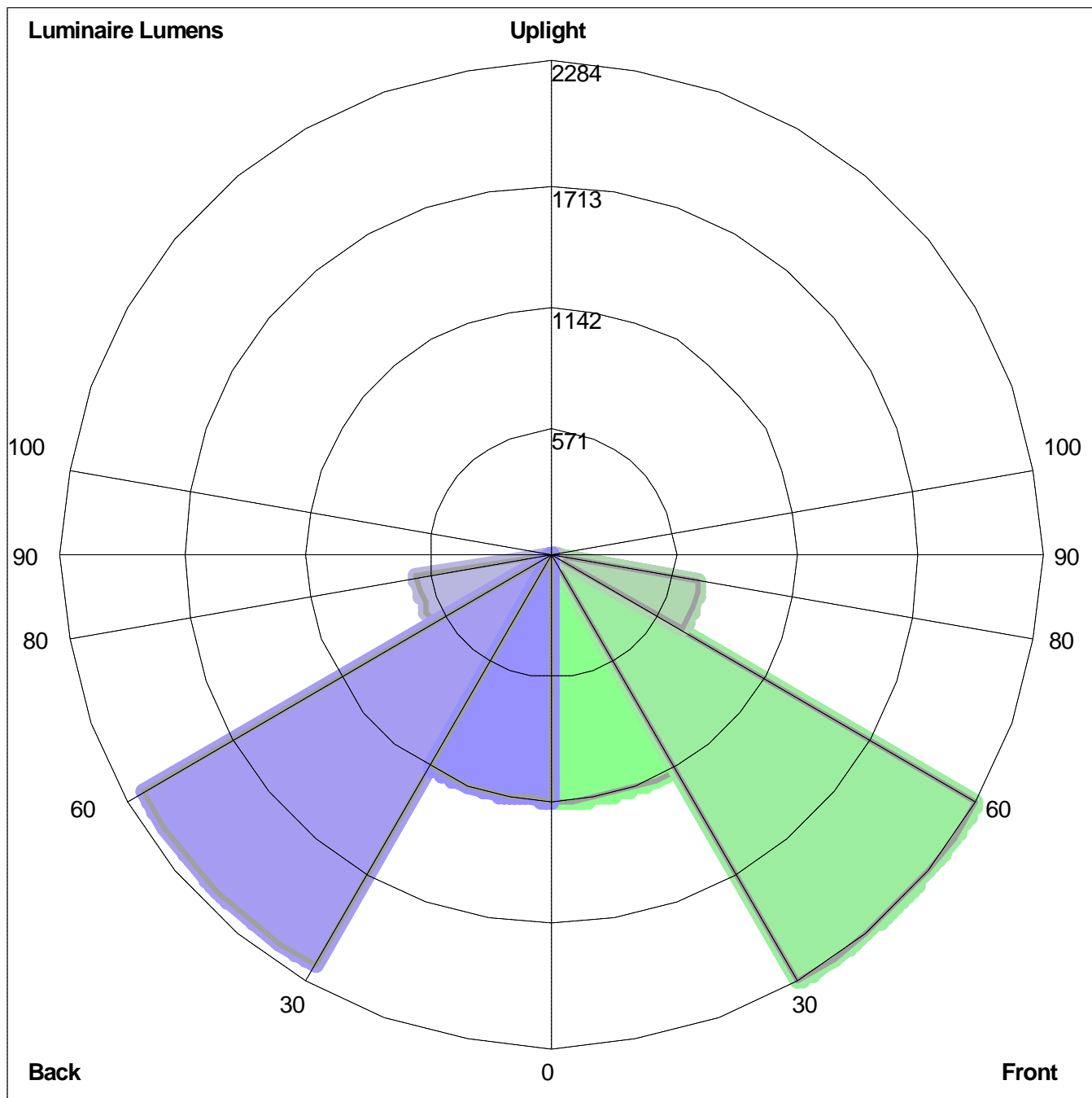


Maximum Candela = 2882.72 Located At Horizontal Angle = 270, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1147.8, Medium=2283.5, High=696.7, Very High=18.5
Back: Low=1137.7, Medium=2194.9, High=636.4, Very High=13.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1