



IES ROAD REPORT

PHOTOMETRIC FILENAME : WSP MD F UV FP 840.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Standard-Tech Co. Ltd

[TESTDATE] 23 February 2017

[ISSUEDATE] 2017-02-23 17:30:11

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] LumenFocus. LLC

[LUMINAIRE] WSP MD F UV FP 840

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	60.63	60.63	2.99	1.35
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[OTHER]	10- 20	169.17	229.80	11.32	5.12
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[OTHER]	20- 30	256.75	486.54	23.97	10.85
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[OTHER]	30- 40	289.13	775.67	38.22	17.30
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[OTHER]	40- 50	305.34	1081.01	53.26	24.11
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[OTHER]	50- 60	299.84	1380.85	68.03	30.79
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[OTHER]	60- 70	255.19	1636.05	80.60	36.48
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[OTHER]	70- 80	180.80	1816.84	89.51	40.51
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[OTHER]	80- 90	105.39	1922.23	94.70	42.86
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[OTHER]	90-100	49.55	1971.78	97.14	43.97
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[OTHER]	100-110	22.67	1994.45	98.26	44.47
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[OTHER]	110-120	12.75	2007.20	98.89	44.76
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[OTHER]	120-130	8.96	2016.16	99.33	44.96
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[OTHER]	130-140	6.49	2022.65	99.65	45.10
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[OTHER]	140-150	4.49	2027.15	99.87	45.20
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[OTHER]	150-160	2.04	2029.19	99.97	45.25
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[OTHER]	160-170	0.49	2029.68	100.00	45.26
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[OTHER]	170-180	0.06	2029.74	100.00	45.26
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[OTHER]

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2030
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	20.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.05
Maximum Candela	967.35
Maximum Candela Angle	360H 22V
Maximum Candela (<90 Degrees Vertical)	967.35
Maximum Candela Angle (<90 Degrees Vertical)	360H 22V
Maximum Candela At 90 Degrees Vertical	250.23 (12.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	422.49 (20.8% Luminaire Lumens)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	351.4	N.A.	17.3
FM - Front-Medium (30-60)	757.0	N.A.	37.3
FH - Front-High (60-80)	401.2	N.A.	19.8
FVH - Front-Very High (80-90)	100.9	N.A.	5.0
BL - Back-Low (0-30)	135.1	N.A.	6.7
BM - Back-Medium (30-60)	137.4	N.A.	6.8
BH - Back-High (60-80)	35.0	N.A.	1.7
BVH - Back-Very High (80-90)	4.6	N.A.	0.2
UL - Uplight-Low (90-100)	49.6	N.A.	2.4
UH - Uplight-High (100-180)	58.0	N.A.	2.9
Total	2030.2	N.A.	100.0
BUG Rating	B1-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	668.19	668.19	668.19	668.19	668.19	668.19	668.19	668.19	668.19	668.19
1	697.92	695.58	688.46	678.96	668.22	653.03	639.67	634.74	631.97	635.83
2	721.69	717.46	706.48	689.88	670.66	637.15	606.87	595.25	589.19	599.05
3	741.57	735.54	720.79	699.27	667.27	620.68	576.09	553.05	545.04	559.58
4	759.53	751.86	733.48	707.90	668.91	606.97	547.43	512.41	500.87	520.49
5	775.86	767.11	745.53	715.05	668.81	590.14	518.51	473.79	458.41	482.94
6	790.87	781.09	756.91	722.46	669.45	580.17	492.36	436.68	416.42	446.51
7	806.91	795.78	767.33	728.86	673.24	567.60	468.35	400.08	376.28	411.95
8	828.31	812.57	778.70	735.92	670.92	554.02	445.47	364.67	336.62	377.88
9	850.77	832.96	790.45	742.60	673.90	548.34	423.14	329.90	300.99	346.39
10	860.02	849.27	804.69	748.95	674.56	540.24	400.13	297.59	270.95	317.63
11	857.23	855.92	820.39	756.03	673.85	532.26	372.08	269.26	243.49	292.10
12	848.70	855.05	836.16	763.80	671.23	526.80	342.20	242.57	218.96	268.33
13	839.46	850.14	844.81	771.51	674.39	522.93	315.12	218.82	196.85	245.82
14	836.17	846.51	845.81	778.94	674.12	518.42	293.42	197.84	177.57	225.70
15	848.71	849.72	845.37	785.84	672.69	514.31	277.25	178.93	160.40	207.16
16	867.17	863.49	847.08	792.66	674.39	507.05	262.08	162.35	145.16	190.11
17	886.14	879.97	853.25	801.40	672.93	500.85	246.82	147.58	131.88	174.52
18	902.35	894.23	863.77	808.36	671.87	498.20	233.49	134.82	120.34	160.28
19	920.27	906.55	875.31	809.74	668.08	492.12	220.56	123.92	110.29	147.52
20	939.28	920.79	887.56	804.94	661.33	484.90	208.47	113.96	101.75	136.33
21	958.27	937.02	895.28	796.27	659.49	473.80	195.68	105.42	94.27	126.01
22	967.35	949.83	901.31	784.52	655.37	461.93	183.61	97.86	87.92	116.79
23	966.13	954.61	905.83	772.25	648.16	448.62	172.02	91.53	82.48	108.52
24	957.65	951.94	906.83	762.87	644.41	433.87	160.90	85.74	77.87	101.15
25	945.76	944.69	905.64	760.98	639.88	419.48	150.82	80.67	73.82	94.56
26	932.75	935.31	902.25	766.23	634.97	400.79	141.38	76.21	70.43	88.61
27	919.74	923.21	901.01	774.69	630.38	384.19	132.28	72.32	67.67	83.42
28	907.17	907.57	895.43	783.62	621.83	365.99	124.28	68.85	65.21	78.72
29	895.69	891.04	884.76	789.33	607.40	346.82	116.51	65.71	63.12	74.34
30	883.31	875.71	876.94	789.64	588.10	326.35	109.11	62.92	61.33	70.58
31	867.26	861.61	868.10	783.60	563.86	306.44	102.56	60.56	59.83	67.21
32	854.15	844.63	857.89	772.93	541.02	287.07	96.53	58.28	58.55	64.14
33	845.87	825.99	835.48	759.23	516.57	269.90	90.59	56.13	57.41	61.35
34	839.43	813.50	805.76	743.02	495.95	253.70	85.48	54.20	56.44	58.84
35	833.86	803.44	785.03	724.24	479.00	238.27	80.62	52.36	55.60	56.50
36	829.58	794.83	771.95	704.88	470.34	225.12	76.37	50.74	54.93	54.32
37	826.37	786.66	761.25	688.19	463.92	213.10	72.18	49.05	54.40	52.34
38	824.85	778.57	755.75	677.25	459.08	201.90	68.42	47.54	53.90	50.34
39	824.05	771.23	746.06	670.10	455.88	192.52	64.79	46.01	53.52	48.57
40	823.45	764.09	728.32	664.80	457.08	183.27	61.46	44.46	53.18	46.79
41	822.88	757.87	716.12	657.61	458.90	175.83	58.39	42.98	52.87	45.02
42	822.11	751.83	705.96	649.73	459.04	167.50	55.44	41.44	52.68	43.31
43	822.17	745.30	693.75	642.47	453.03	160.72	52.60	40.02	52.54	41.60
44	822.59	739.04	681.44	631.08	443.18	154.09	50.04	38.57	52.60	39.98
45	823.06	733.51	671.39	616.79	433.42	147.74	47.45	37.11	52.66	38.28
46	823.79	728.19	661.67	605.47	425.91	141.27	45.16	35.64	52.80	36.56
47	824.94	722.85	652.07	595.19	419.69	135.61	42.89	34.17	52.91	34.89
48	825.83	717.14	642.81	586.76	414.35	129.26	40.78	32.71	53.13	33.25
49	827.25	710.88	633.52	576.31	404.75	123.35	38.74	31.26	53.36	31.66
50	829.66	705.41	624.83	562.83	393.61	117.43	36.77	29.81	53.74	30.02
51	833.96	699.38	616.20	546.19	382.71	111.81	34.94	28.34	54.61	28.42
52	838.64	692.87	607.35	531.06	371.71	105.90	33.19	26.90	56.62	26.89

IES ROAD REPORT
PHOTOMETRIC FILENAME : WSP MD F UV FP 840.IES

CANDELA TABULATION - (Cont.)

53	843.67	686.27	598.54	518.70	360.28	100.45	31.59	25.47	59.44	25.40
54	845.99	679.66	589.54	506.07	348.72	94.61	30.04	24.08	62.82	24.00
55	845.75	672.89	580.98	493.85	336.83	89.53	28.48	22.74	65.47	22.58
56	840.70	666.10	571.73	481.86	325.10	84.50	26.99	21.35	67.16	21.19
57	833.56	657.73	561.87	470.07	312.42	79.58	25.52	20.08	67.73	19.95
58	827.91	649.86	552.17	458.33	300.65	74.79	24.10	18.80	66.21	18.65
59	818.26	641.16	542.08	446.29	288.07	70.22	22.83	17.62	61.96	17.44
60	804.01	631.55	531.07	432.59	275.09	65.91	21.56	16.39	55.56	16.29
61	786.82	622.61	520.68	418.98	262.06	61.73	20.36	15.24	48.21	15.10
62	769.69	612.58	509.41	404.34	248.57	57.72	19.28	14.14	40.83	13.98
63	751.70	601.11	498.31	388.99	235.12	54.04	18.20	13.05	34.22	12.91
64	733.41	589.93	486.30	374.05	221.36	50.58	17.11	11.95	29.86	11.88
65	712.30	578.71	474.10	359.90	207.66	47.21	16.14	10.92	26.42	10.91
66	689.18	566.57	461.72	345.93	193.67	44.08	15.20	9.85	23.43	9.94
67	665.46	554.17	448.85	332.12	179.69	41.05	14.30	8.87	20.63	9.01
68	643.16	541.29	436.12	318.36	166.40	38.26	13.41	7.88	18.02	8.14
69	623.05	527.93	423.12	304.07	154.23	35.50	12.58	6.96	15.45	7.29
70	603.75	514.55	409.43	289.02	141.64	33.01	11.77	6.03	13.07	6.42
71	585.67	500.38	395.91	273.84	128.87	30.64	10.94	5.16	10.84	5.60
72	567.22	485.91	382.08	258.54	117.88	28.45	10.15	4.34	8.89	4.83
73	549.47	471.86	367.87	243.41	107.27	26.44	9.48	3.52	7.03	4.07
74	531.49	457.40	353.67	228.11	97.68	24.55	8.82	2.85	5.42	3.39
75	512.77	442.13	339.02	212.01	88.91	22.77	8.17	2.16	4.00	2.69
76	494.17	426.89	324.59	196.75	81.09	21.09	7.55	1.63	2.84	2.06
77	475.86	411.74	309.88	181.88	73.79	19.62	7.01	0.99	1.90	1.44
78	458.13	395.32	294.54	167.33	67.38	18.16	6.46	0.52	1.10	1.12
79	440.11	379.25	279.13	152.98	61.78	16.82	5.96	0.25	0.56	0.64
80	422.49	363.11	263.38	139.48	56.30	15.60	5.50	0.00	0.22	0.39
81	405.71	346.94	247.57	126.97	51.41	14.43	5.11	0.00	0.08	0.14
82	388.08	330.75	231.95	115.65	46.96	13.37	4.70	0.00	0.08	0.00
83	370.64	314.79	216.27	105.33	42.91	12.34	4.35	0.00	0.11	0.00
84	353.11	298.92	200.65	95.93	39.27	11.46	4.04	0.00	0.11	0.00
85	335.43	282.39	184.98	87.35	35.95	10.67	3.82	0.00	0.14	0.03
86	318.41	266.28	170.17	79.83	33.03	9.95	3.79	0.00	0.17	0.06
87	301.30	250.47	155.78	72.91	30.32	9.24	3.49	0.00	0.20	0.08
88	283.79	234.17	142.07	66.70	27.94	8.69	3.44	0.06	0.20	0.11
89	266.92	218.42	129.37	61.01	25.84	8.21	3.41	0.06	0.25	0.11
90	250.23	202.48	117.60	55.98	24.01	7.75	3.24	0.08	0.28	0.17
91	234.25	186.57	107.22	51.59	22.30	7.39	3.14	0.11	0.29	0.17
92	218.60	171.13	97.72	47.66	20.82	7.04	3.05	0.17	0.30	0.20
93	202.66	156.98	89.38	44.04	19.52	6.70	2.94	0.17	0.31	0.22
94	187.84	143.89	81.98	40.86	18.33	6.50	2.94	0.22	0.33	0.25
95	173.77	131.36	75.27	37.93	17.24	6.12	2.97	0.28	0.34	0.28
96	160.36	120.27	69.12	35.45	16.28	5.87	2.86	0.28	0.35	0.34
97	147.94	109.71	63.71	33.21	15.41	5.66	2.70	0.33	0.36	0.36
98	135.53	100.29	58.84	31.19	14.60	5.54	2.64	0.36	0.47	0.39
99	124.69	92.00	54.65	29.30	13.87	5.27	2.53	0.39	0.50	0.45
100	115.45	84.69	50.75	27.33	13.16	5.24	2.50	0.39	0.47	0.47
101	107.19	78.08	47.13	25.58	12.49	4.94	2.46	0.42	0.50	0.48
102	99.82	72.15	43.84	24.20	11.92	4.80	2.43	0.44	0.53	0.49
103	93.25	66.91	41.00	23.03	11.44	4.72	2.40	0.47	0.56	0.50
104	87.54	62.27	38.64	21.95	11.04	4.69	2.37	0.47	0.59	0.50
105	82.51	58.15	36.49	21.04	10.70	4.52	2.28	0.53	0.61	0.51
106	59.34	54.45	34.51	20.15	10.40	4.36	2.20	0.53	0.61	0.52
107	45.98	51.12	32.75	19.41	10.07	4.30	2.20	0.58	0.62	0.53
108	42.24	48.23	31.15	18.78	9.79	4.28	2.15	0.56	0.62	0.54

IES ROAD REPORT
PHOTOMETRIC FILENAME : WSP MD F UV FP 840.IES

CANDELA TABULATION - (Cont.)

109	38.52	45.49	29.72	18.14	9.57	4.25	2.13	0.58	0.62	0.54
110	35.65	43.22	28.42	17.58	9.32	4.22	2.11	0.59	0.62	0.55
111	33.41	41.05	27.27	17.11	9.12	4.14	2.10	0.60	0.62	0.55
112	32.00	39.09	26.25	16.75	8.90	4.09	2.08	0.61	0.62	0.55
113	32.31	37.38	25.29	16.33	8.74	4.05	2.07	0.61	0.63	0.55
114	31.83	35.75	24.39	16.00	8.63	4.01	2.05	0.62	0.63	0.56
115	30.85	34.21	23.60	15.74	8.46	4.00	2.04	0.63	0.63	0.56
116	29.36	32.83	22.89	15.52	8.29	4.00	2.01	0.64	0.63	0.56
117	27.85	31.70	22.21	15.44	8.18	4.00	2.04	0.64	0.63	0.57
118	26.44	30.53	21.61	15.25	8.07	3.99	2.01	0.65	0.63	0.57
119	25.39	29.47	21.02	14.91	7.91	3.99	1.92	0.66	0.64	0.57
120	24.30	28.50	20.52	14.61	7.85	3.99	1.92	0.67	0.64	0.57
121	23.63	27.62	19.96	14.33	7.85	3.99	1.91	0.67	0.64	0.58
122	23.04	26.78	19.51	14.05	7.84	3.98	1.91	0.68	0.64	0.58
123	22.60	26.06	19.04	13.86	7.83	3.98	1.90	0.69	0.64	0.58
124	22.15	25.24	18.59	13.67	7.82	3.98	1.90	0.69	0.64	0.59
125	21.63	24.54	18.18	13.55	7.81	3.97	1.89	0.72	0.65	0.59
126	20.93	23.85	17.81	13.44	7.80	3.97	1.89	0.73	0.65	0.60
127	20.03	23.23	17.49	13.28	7.80	3.97	1.88	0.73	0.65	0.60
128	19.15	22.54	17.15	13.16	7.80	3.97	1.88	0.73	0.65	0.61
129	18.22	22.03	16.86	13.05	7.85	3.96	1.87	0.74	0.65	0.61
130	17.32	21.38	16.59	12.94	7.88	3.96	1.86	0.74	0.65	0.62
131	16.58	20.83	16.31	12.80	7.91	3.96	1.86	0.74	0.66	0.63
132	15.82	20.35	16.06	12.75	7.94	3.95	1.85	0.75	0.66	0.63
133	15.25	19.80	15.84	12.63	8.02	3.95	1.85	0.76	0.66	0.64
134	14.56	19.37	15.62	12.58	8.02	3.95	1.84	0.76	0.66	0.64
135	14.00	18.89	15.39	12.52	8.10	3.95	1.84	0.77	0.66	0.64
136	13.47	18.34	15.19	12.52	8.13	3.97	1.83	0.78	0.66	0.67
137	12.99	17.92	14.98	12.47	8.17	4.00	1.83	0.78	0.67	0.67
138	12.40	17.42	14.81	12.41	8.20	4.00	1.82	0.78	0.68	0.73
139	11.94	16.97	14.56	12.36	8.23	4.06	1.82	0.79	0.69	0.73
140	11.46	16.47	14.36	12.33	8.26	4.08	1.83	0.79	0.70	0.75
141	11.04	16.00	14.14	12.22	8.29	4.09	1.85	0.80	0.71	0.78
142	10.62	15.50	13.92	12.14	8.12	4.14	1.87	0.80	0.72	0.75
143	10.24	14.99	13.64	12.08	7.91	4.20	1.88	0.81	0.75	0.78
144	9.84	14.49	13.45	12.02	7.65	4.22	1.90	0.81	0.75	0.78
145	9.43	13.98	13.22	12.05	7.32	4.33	1.92	0.82	0.75	0.77
146	9.01	13.46	13.00	12.05	6.96	4.42	1.94	0.82	0.75	0.77
147	8.67	13.01	12.77	11.94	6.77	4.55	1.95	0.82	0.75	0.76
148	8.23	12.54	12.42	11.50	6.35	4.56	1.97	0.83	0.75	0.76
149	7.84	12.06	12.11	11.11	5.72	4.58	1.99	0.83	0.74	0.76
150	7.47	11.54	11.78	10.39	4.88	4.59	2.01	0.81	0.74	0.76
151	7.08	10.88	11.25	9.59	3.94	4.60	2.01	0.80	0.74	0.76
152	6.69	10.20	10.80	8.74	3.35	4.61	2.09	0.80	0.74	0.76
153	6.26	9.47	10.13	7.93	2.91	4.55	2.06	0.80	0.74	0.75
154	5.85	8.78	9.27	7.44	2.57	4.39	2.06	0.80	0.73	0.75
155	5.44	8.14	8.55	6.95	2.30	4.27	2.09	0.79	0.73	0.75
156	5.02	7.37	7.86	6.53	2.08	4.02	2.06	0.79	0.73	0.75
157	4.60	6.58	7.27	6.14	1.97	3.80	2.06	0.79	0.73	0.75
158	4.21	5.88	6.63	5.84	1.77	3.45	2.04	0.79	0.73	0.75
159	3.80	5.25	6.03	5.25	1.69	3.14	2.04	0.79	0.73	0.74
160	3.43	4.67	5.49	4.61	1.69	2.75	2.06	0.78	0.72	0.74
161	3.05	4.16	5.00	3.87	1.44	2.32	2.00	0.78	0.72	0.74
162	2.71	3.72	4.49	3.14	1.22	1.95	1.82	0.78	0.72	0.74
163	2.40	3.25	4.01	2.56	1.19	1.66	1.68	0.78	0.72	0.74
164	2.09	2.85	3.49	2.12	0.94	1.32	1.67	0.77	0.72	0.74

IES ROAD REPORT
PHOTOMETRIC FILENAME : WSP MD F UV FP 840.IES

CANDELA TABULATION - (Cont.)

165	1.82	2.49	2.91	1.70	0.94	1.19	1.48	0.77	0.71	0.73
166	1.56	2.12	2.35	1.45	0.89	1.13	1.34	0.77	0.71	0.73
167	1.37	1.74	1.85	1.17	0.89	1.02	1.21	0.77	0.71	0.73
168	1.12	1.37	1.43	0.97	0.83	0.86	1.15	0.77	0.71	0.73
169	0.95	1.07	1.12	0.75	0.83	0.80	1.07	0.76	0.71	0.73
170	0.81	0.81	0.87	0.61	0.80	0.77	1.03	0.76	0.71	0.73
171	0.64	0.65	0.67	0.56	0.78	0.77	0.99	0.76	0.70	0.73
172	0.56	0.53	0.51	0.47	0.75	0.80	0.95	0.76	0.70	0.73
173	0.50	0.42	0.39	0.46	0.69	0.76	0.92	0.75	0.70	0.64
174	0.45	0.39	0.39	0.44	0.67	0.73	0.88	0.75	0.70	0.64
175	0.45	0.39	0.36	0.42	0.64	0.70	0.84	0.75	0.70	0.58
176	0.45	0.39	0.36	0.41	0.64	0.67	0.81	0.72	0.64	0.50
177	0.45	0.39	0.36	0.39	0.64	0.63	0.77	0.67	0.56	0.47
178	0.45	0.39	0.36	0.39	0.64	0.63	0.74	0.67	0.56	0.45
179	0.45	0.39	0.36	0.39	0.64	0.64	0.74	0.67	0.56	0.45
180	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44

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	668.19	668.19	668.19	668.19	668.19	668.19	668.19
1	644.17	656.72	673.61	680.77	688.20	697.50	697.92
2	618.46	645.06	674.33	695.75	706.20	721.15	721.69
3	592.11	634.36	678.69	708.26	723.84	739.73	741.57
4	565.25	624.00	679.69	719.07	740.89	756.60	759.53
5	539.15	613.81	680.60	727.80	747.57	772.80	775.86
6	515.00	604.55	687.11	735.05	761.86	786.42	790.87
7	492.69	596.07	693.43	745.68	774.37	801.69	806.91
8	473.26	588.65	692.43	754.61	791.22	822.09	828.31
9	455.74	582.04	691.69	763.85	805.88	845.55	850.77
10	438.81	575.84	697.06	772.89	822.16	863.61	860.02
11	424.08	569.09	701.43	781.32	844.05	868.83	857.23
12	408.80	563.16	700.29	792.67	864.04	865.39	848.70
13	393.13	556.73	701.31	803.80	874.32	857.25	839.46
14	377.04	549.05	700.96	814.51	873.04	851.13	836.17
15	359.27	541.66	696.98	824.60	870.84	855.07	848.71
16	341.18	533.07	695.95	836.69	875.80	872.52	867.17
17	322.66	523.50	695.40	847.01	874.10	892.84	886.14
18	305.19	511.93	691.98	849.55	881.36	910.44	902.35
19	288.68	500.42	690.84	843.94	889.01	924.78	920.27
20	271.97	487.92	686.34	835.14	895.62	937.95	939.28
21	254.67	474.69	682.57	821.90	901.76	949.04	958.27
22	236.03	462.06	678.26	807.81	904.94	957.66	967.35
23	217.45	449.03	671.39	793.44	908.78	963.51	966.13
24	199.52	435.28	663.54	780.67	913.03	962.55	957.65
25	183.33	421.04	655.46	779.57	913.94	954.09	945.76
26	169.23	406.33	649.01	782.94	911.83	941.67	932.75
27	157.39	391.33	645.96	789.91	906.37	925.20	919.74
28	146.12	376.51	636.48	799.15	899.83	909.91	907.17
29	135.60	361.12	620.10	810.55	891.13	894.98	895.69
30	126.20	344.59	597.05	816.94	880.53	883.71	883.31
31	117.61	327.54	571.91	816.42	869.62	868.18	867.26
32	109.51	310.84	545.42	807.54	861.46	841.90	854.15
33	102.18	294.61	523.94	793.59	840.01	824.53	845.87
34	95.49	278.27	508.70	780.23	808.08	812.84	839.43
35	89.28	261.66	493.27	764.80	784.37	801.86	833.86

IES ROAD REPORT
PHOTOMETRIC FILENAME : WSP MD F UV FP 840.IES

CANDELA TABULATION - (Cont.)

36	83.68	245.10	478.02	744.23	771.80	792.14	829.58
37	78.45	230.40	468.92	723.14	761.91	783.54	826.37
38	73.65	217.36	465.58	707.55	757.32	775.59	824.85
39	69.20	205.68	468.15	698.27	757.25	769.18	824.05
40	65.14	195.13	475.81	694.08	748.98	763.49	823.45
41	61.33	185.26	483.70	689.57	727.18	756.98	822.88
42	57.82	176.14	487.09	681.25	712.27	750.67	822.11
43	54.56	167.61	483.60	673.13	695.99	745.01	822.17
44	51.48	159.42	467.02	668.41	683.63	739.97	822.59
45	48.63	151.65	454.30	657.76	672.99	734.42	823.06
46	45.89	144.14	442.23	640.91	663.36	728.79	823.79
47	43.32	137.02	430.47	624.97	652.94	723.56	824.94
48	40.93	130.11	420.55	611.44	643.03	717.87	825.83
49	38.59	123.35	411.37	598.10	633.83	711.87	827.25
50	36.41	116.86	401.30	584.69	625.11	705.27	829.66
51	34.39	110.56	390.14	570.06	616.37	698.95	833.96
52	32.45	104.50	379.29	550.95	607.49	692.23	838.64
53	30.69	98.69	367.42	534.87	597.70	685.66	843.67
54	29.02	93.10	355.28	519.11	589.37	678.63	845.99
55	27.43	87.92	342.61	503.71	581.29	671.42	845.75
56	25.99	82.82	329.67	490.35	571.80	664.21	840.70
57	24.62	78.09	317.33	476.26	561.84	657.11	833.56
58	23.39	73.52	305.27	462.57	551.71	650.79	827.91
59	22.13	69.20	292.44	448.36	541.64	642.99	818.26
60	20.98	64.98	279.82	432.91	530.82	634.00	804.01
61	19.88	60.97	266.95	416.82	521.05	624.52	786.82
62	18.87	57.28	253.25	401.95	510.14	614.41	769.69
63	17.89	53.67	239.12	386.84	499.58	604.04	751.70
64	16.90	50.31	225.28	372.09	486.97	592.87	733.41
65	16.01	47.06	211.46	357.40	473.97	580.10	712.30
66	15.16	44.04	197.03	343.53	460.49	567.77	689.18
67	14.29	41.23	182.87	329.54	446.47	555.24	665.46
68	13.44	38.48	169.18	315.38	432.24	541.29	643.16
69	12.71	35.87	156.46	300.78	418.33	528.08	623.05
70	11.92	33.40	143.74	285.35	403.58	513.53	603.75
71	11.18	31.15	131.18	269.64	389.43	499.69	585.67
72	10.50	29.00	119.54	253.43	375.01	485.22	567.22
73	9.82	27.03	107.99	237.31	360.50	470.01	549.47
74	9.20	25.10	97.91	221.86	346.13	454.93	531.49
75	8.56	23.40	88.81	207.08	330.96	439.42	512.77
76	7.96	21.79	80.94	192.59	315.71	423.32	494.17
77	7.39	20.22	73.72	178.72	300.25	407.91	475.86
78	6.89	18.78	67.14	164.40	284.75	391.25	458.13
79	6.37	17.40	61.09	150.18	269.33	375.16	440.11
80	5.86	16.15	55.70	136.31	253.72	358.52	422.49
81	5.42	14.97	50.79	123.40	239.20	342.13	405.71
82	5.06	13.82	46.24	111.70	224.28	325.97	388.08
83	4.72	12.81	42.13	101.32	210.35	309.92	370.64
84	4.31	11.89	38.44	92.05	195.67	294.12	353.11
85	4.09	11.04	35.13	83.56	180.76	278.33	335.43
86	3.90	10.26	32.27	76.21	166.07	262.44	318.41
87	3.89	9.59	29.65	69.45	151.98	246.92	301.30
88	3.62	8.99	27.26	63.23	137.84	230.55	283.79
89	3.51	8.45	25.12	57.81	124.78	214.51	266.92
90	3.45	7.94	23.28	52.99	113.26	198.43	250.23
91	3.23	7.58	21.57	48.72	102.69	182.61	234.25

IES ROAD REPORT
PHOTOMETRIC FILENAME : WSP MD F UV FP 840.IES

CANDELA TABULATION - (Cont.)

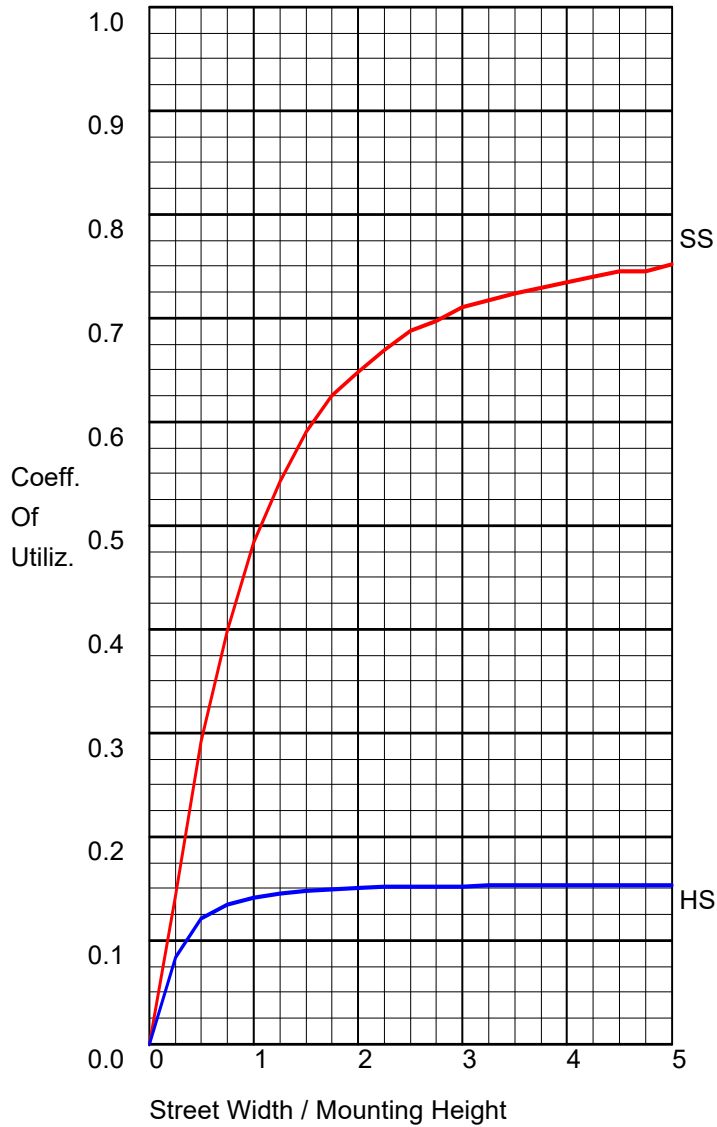
92	3.14	7.21	20.10	44.82	93.34	167.96	218.60
93	3.06	6.94	18.75	41.34	85.16	153.52	202.66
94	2.98	6.55	17.55	38.33	77.70	139.91	187.84
95	2.98	6.25	16.50	35.55	71.19	127.50	173.77
96	2.92	6.02	15.54	33.03	65.40	116.02	160.36
97	2.73	5.74	14.65	30.85	60.08	105.89	147.94
98	2.64	5.61	13.91	28.87	55.40	96.86	135.53
99	2.59	5.33	13.18	27.10	51.24	88.84	124.69
100	2.53	5.22	12.58	25.51	47.57	81.80	115.45
101	2.47	5.00	12.04	24.12	44.25	75.42	107.19
102	2.42	4.86	11.51	22.81	41.33	69.81	99.82
103	2.36	4.75	11.05	21.74	38.79	64.76	93.25
104	2.31	4.74	10.64	20.71	36.38	60.25	87.54
105	2.28	4.50	10.32	19.68	34.29	56.28	82.51
106	2.20	4.39	9.93	18.84	32.41	52.78	59.34
107	2.19	4.30	9.61	18.13	30.73	49.54	45.98
108	2.18	4.28	9.33	17.42	29.21	46.64	42.24
109	2.17	4.25	9.08	16.84	27.82	44.10	38.52
110	2.16	4.14	8.83	16.31	26.61	41.81	35.65
111	2.15	4.05	8.66	15.79	25.48	39.77	33.41
112	2.14	4.00	8.44	15.37	24.46	37.92	32.00
113	2.09	3.94	8.24	14.94	23.56	36.22	32.31
114	2.00	3.93	8.10	14.63	22.73	34.57	31.83
115	1.97	3.92	7.94	14.29	22.00	33.14	30.85
116	1.89	3.91	7.85	14.02	21.27	31.89	29.36
117	1.86	3.89	7.69	13.85	20.63	30.68	27.85
118	1.84	3.88	7.63	13.74	20.06	29.57	26.44
119	1.83	3.87	7.49	13.44	19.55	28.51	25.39
120	1.83	3.86	7.44	13.22	19.07	27.58	24.30
121	1.82	3.83	7.33	12.97	18.67	26.73	23.63
122	1.82	3.72	7.24	12.78	18.23	25.86	23.04
123	1.81	3.71	7.24	12.59	17.83	25.07	22.60
124	1.81	3.71	7.21	12.42	17.42	24.33	22.15
125	1.80	3.70	7.16	12.26	17.06	23.65	21.63
126	1.80	3.70	7.16	12.14	16.74	23.02	20.93
127	1.80	3.69	7.17	12.01	16.40	22.40	20.03
128	1.79	3.66	7.18	11.98	16.10	21.83	19.15
129	1.79	3.64	7.18	11.84	15.88	21.24	18.22
130	1.79	3.62	7.19	11.73	15.57	20.70	17.32
131	1.78	3.60	7.19	11.62	15.33	20.18	16.58
132	1.78	3.59	7.20	11.56	15.11	19.68	15.82
133	1.72	3.59	7.21	11.53	14.86	19.22	15.25
134	1.58	3.59	7.21	11.51	14.67	18.76	14.56
135	1.47	3.58	7.37	11.48	14.47	18.33	14.00
136	1.34	3.58	7.46	11.45	14.28	17.93	13.47
137	1.34	3.58	7.44	11.42	14.06	17.45	12.99
138	1.36	3.58	7.49	11.40	13.87	17.02	12.40
139	1.31	3.55	7.60	11.37	13.73	16.62	11.94
140	1.30	3.53	7.74	11.34	13.54	16.23	11.46
141	1.30	3.51	7.79	11.29	13.38	15.79	11.04
142	1.30	3.48	7.85	11.26	13.23	15.41	10.62
143	1.29	3.46	7.85	11.23	13.10	14.93	10.24
144	1.29	3.43	7.71	11.12	12.99	14.45	9.84
145	1.29	3.41	7.44	11.12	12.85	13.98	9.43
146	1.28	3.38	7.16	11.23	12.63	13.51	9.01
147	1.28	3.16	6.89	11.42	12.33	13.07	8.67

IES ROAD REPORT
PHOTOMETRIC FILENAME : WSP MD F UV FP 840.IES

CANDELA TABULATION - (Cont.)

148	1.25	3.08	6.52	11.34	12.03	12.59	8.23
149	1.22	3.03	6.19	11.13	11.62	12.09	7.84
150	1.14	3.02	5.51	10.68	11.13	11.57	7.47
151	1.00	2.77	4.36	9.46	10.71	11.03	7.08
152	0.95	2.64	3.54	8.13	10.19	10.46	6.69
153	0.89	2.53	2.95	7.28	9.53	9.84	6.26
154	0.88	2.39	2.64	6.37	8.90	9.13	5.85
155	0.88	2.22	2.42	5.80	8.19	8.36	5.44
156	0.88	2.08	2.17	5.30	7.62	7.56	5.02
157	0.87	2.03	1.97	5.05	7.01	6.91	4.60
158	0.87	1.75	1.83	4.14	6.37	6.35	4.21
159	0.86	1.72	1.72	3.38	5.87	5.70	3.80
160	0.86	1.72	1.56	2.43	5.46	5.15	3.43
161	0.85	1.41	1.33	2.29	4.88	4.59	3.05
162	0.85	1.25	1.25	2.37	4.28	4.12	2.71
163	0.84	1.22	1.22	2.10	3.75	3.65	2.40
164	0.84	1.14	1.19	1.74	3.19	3.22	2.09
165	0.83	0.91	1.15	1.55	2.76	2.81	1.82
166	0.78	0.83	1.12	1.38	2.39	2.40	1.56
167	0.78	0.78	1.09	1.24	1.97	2.04	1.37
168	0.81	0.75	1.05	1.05	1.63	1.67	1.12
169	0.75	0.67	1.00	0.91	1.36	1.34	0.95
170	0.70	0.58	0.97	0.83	1.08	1.09	0.81
171	0.64	0.53	0.94	0.77	0.94	0.89	0.64
172	0.58	0.44	0.94	0.77	0.83	0.70	0.56
173	0.56	0.43	0.92	0.77	0.75	0.59	0.50
174	0.56	0.42	0.92	0.76	0.69	0.58	0.45
175	0.50	0.41	0.86	0.76	0.66	0.56	0.45
176	0.47	0.40	0.86	0.75	0.66	0.56	0.45
177	0.42	0.39	0.78	0.75	0.66	0.56	0.45
178	0.39	0.39	0.75	0.75	0.66	0.56	0.45
179	0.39	0.42	0.72	0.75	0.66	0.56	0.45
180	0.44	0.44	0.44	0.44	0.44	0.44	0.44

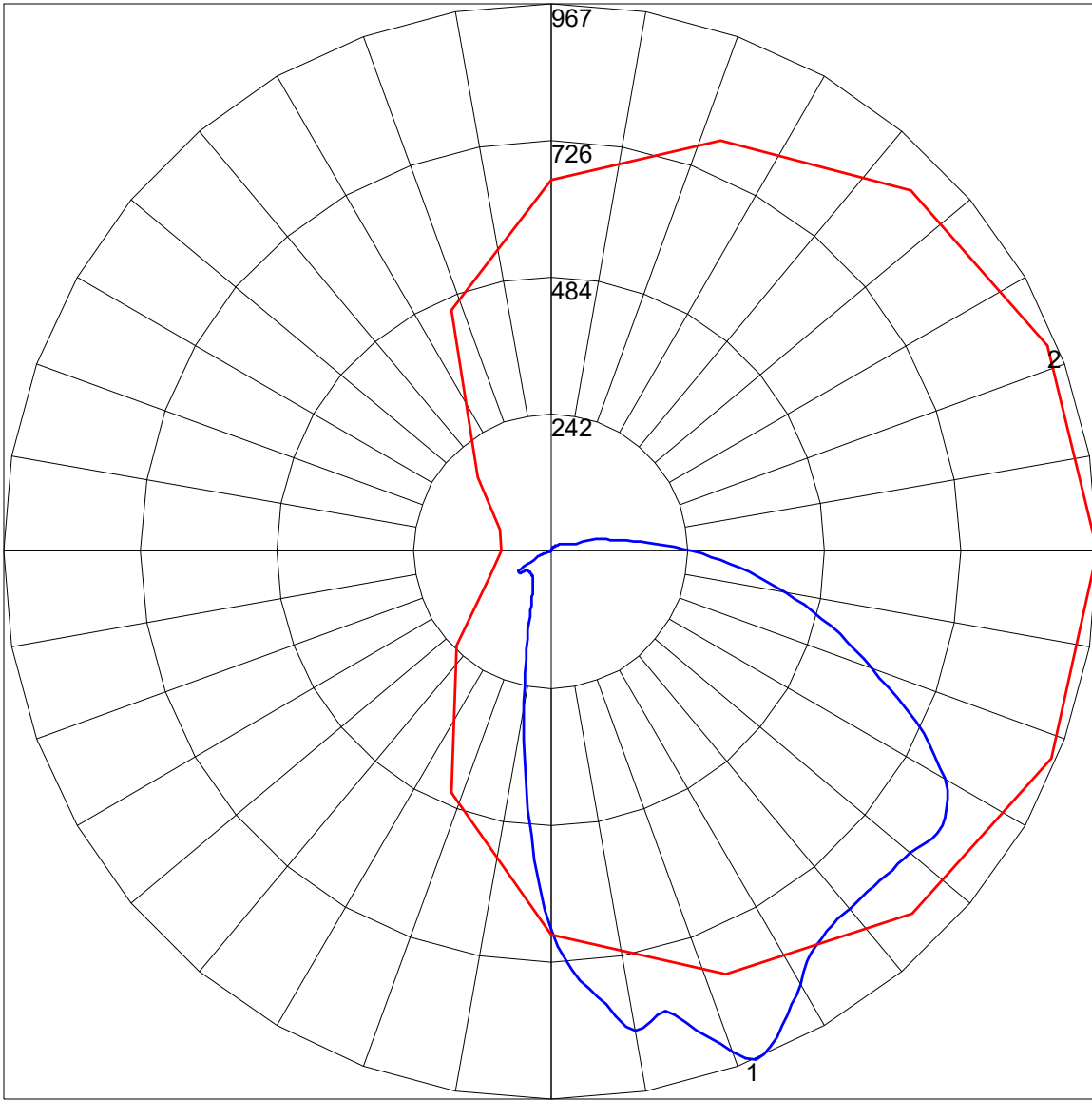
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

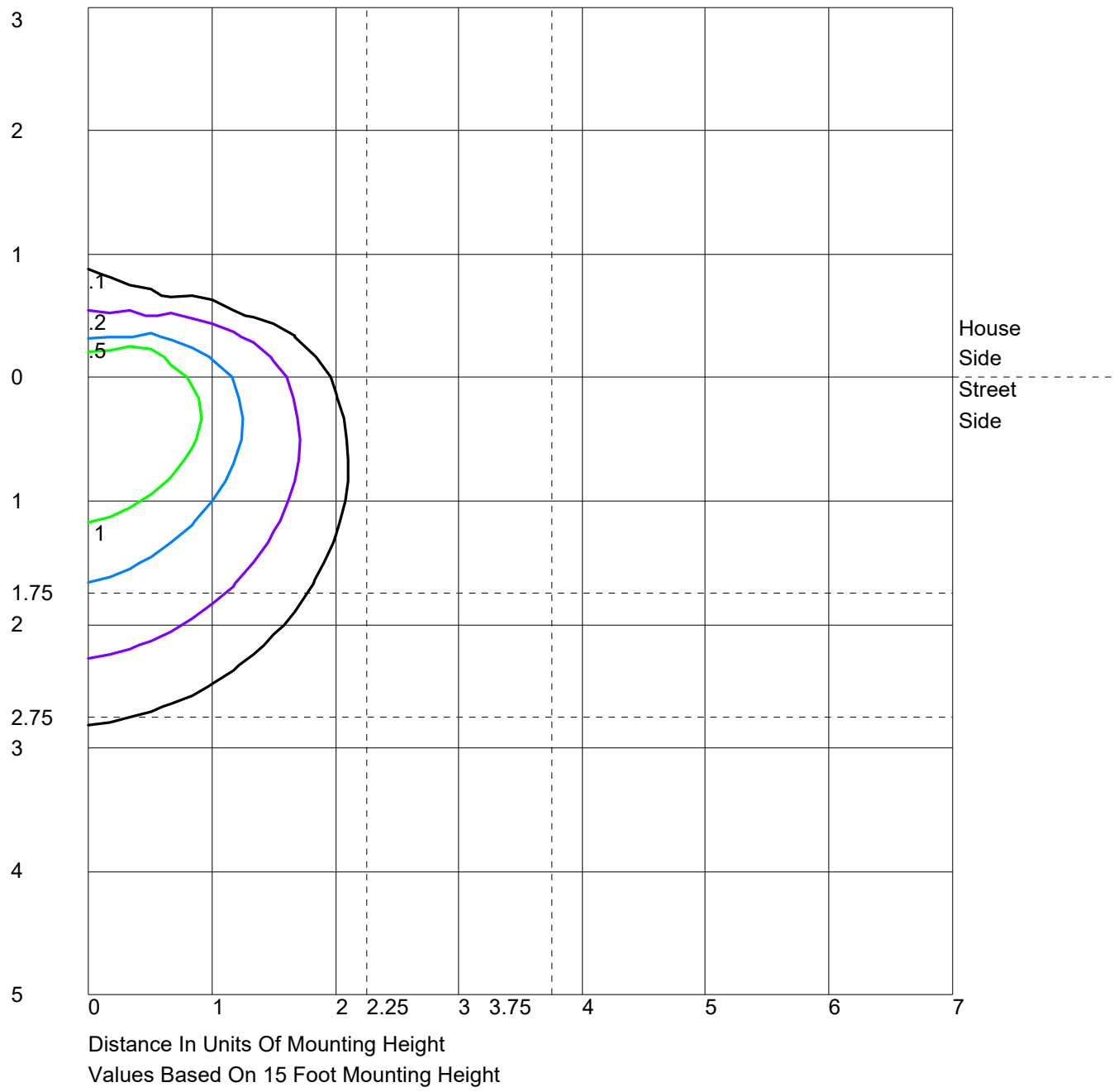
	Lumens	Percent Of Luminaire
Downward Street Side	1610.5	79.3
Downward House Side	312.1	15.4
Downward Total	1922.6	94.7
Upward Street Side	98.5	4.8
Upward House Side	9.2	0.5
Upward Total	107.7	5.3
Total Flux	2030.3	100.0

POLAR GRAPH

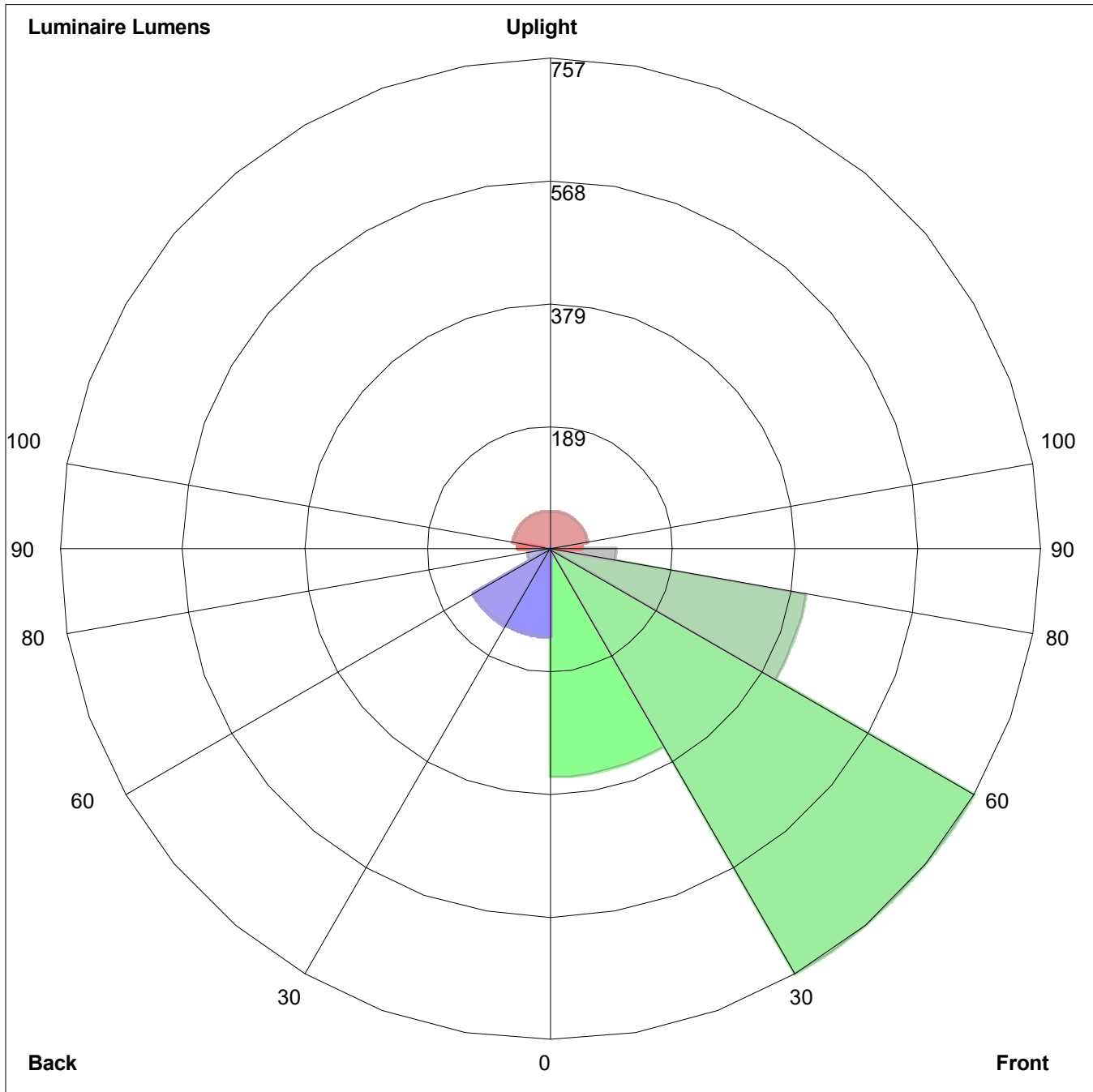


Maximum Candela = 967.35 Located At Horizontal Angle = 360, Vertical Angle = 22
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=351.4, Medium=757.0, High=401.2, Very High=100.9
 Back: Low=135.1, Medium=137.4, High=35.0, Very High=4.6
 Uplight: Low=49.6, High=58.0

BUG Rating : B1-U3-G2