



IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 8,067
[TESTLAB] CSA Group
[ISSUE DATE] 6/9/2015 8:40:51 AM
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] QSSI_WP12QF1X23U5K
[LUMCAT] WPS2-L26-850
[LUMINAIRE] SMALL WALL PACK WITH GLASS LENS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor, Area, Commercial, Site, Direct, Wet Location
[_SEARCH_MOUNTING] Wall

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2578
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	27.45
Ballast Factor	1.00
Upward Waste Light Ratio	0.40
Maximum Candela	777.1
Maximum Candela Angle	340H 57.5V
Maximum Candela (<90 Degrees Vertical)	777.1
Maximum Candela Angle (<90 Degrees Vertical)	340H 57.5V
Maximum Candela At 90 Degrees Vertical	766.67 (29.7% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	764.69 (29.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	109.2	N.A.	4.2
FM - Front-Medium (30-60)	540.5	N.A.	21.0
FH - Front-High (60-80)	535.7	N.A.	20.8
FVH - Front-Very High (80-90)	281.6	N.A.	10.9
BL - Back-Low (0-30)	26.9	N.A.	1.0
BM - Back-Medium (30-60)	37.7	N.A.	1.5
BH - Back-High (60-80)	16.1	N.A.	0.6
BVH - Back-Very High (80-90)	6.6	N.A.	0.3
UL - Uplight-Low (90-100)	279.5	N.A.	10.8
UH - Uplight-High (100-180)	743.9	N.A.	28.9
Total	2577.7	N.A.	100.0
BUG Rating	B0-U4-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58
2.5	111.05	115.69	116.08	115.94	115.46	115.81	115.34	115.19	114.70	114.13
5.0	132.58	136.94	136.17	137.37	136.05	134.90	134.41	133.11	131.78	129.48
7.5	158.27	162.09	162.84	162.07	160.42	158.93	157.11	154.41	151.83	147.41
10.0	188.69	193.22	192.61	191.41	189.03	185.74	182.53	178.73	173.92	171.44
12.5	221.65	226.98	225.07	223.72	220.47	216.58	211.73	207.41	202.07	199.21
15.0	264.85	268.44	267.13	262.75	258.00	254.10	246.78	238.18	230.38	227.04
17.5	310.11	313.87	310.06	306.09	301.49	294.43	284.05	276.33	269.64	259.83
20.0	351.94	355.02	354.83	349.32	342.71	336.36	324.76	317.09	314.16	294.64
22.5	401.57	401.64	400.19	392.01	384.90	373.11	362.94	353.45	343.24	325.55
25.0	445.99	446.14	442.95	434.84	420.58	409.98	405.95	396.13	375.02	356.63
27.5	492.79	490.80	485.06	476.99	465.54	456.66	441.41	427.00	423.64	385.38
30.0	508.06	504.55	500.66	495.72	490.21	489.52	480.83	465.65	451.25	413.64
32.5	566.41	555.07	540.99	524.81	505.01	503.14	495.42	492.85	474.14	434.71
35.0	595.99	584.88	576.30	569.42	564.35	553.81	522.12	510.91	487.88	450.96
37.5	623.51	617.85	603.34	582.25	579.16	571.83	577.66	554.33	497.06	457.66
40.0	642.44	642.87	626.27	611.06	611.57	597.85	600.86	571.64	539.51	479.96
42.5	701.33	699.91	691.56	660.58	648.54	619.93	614.93	583.66	542.32	505.76
45.0	692.66	685.12	673.78	671.10	676.93	678.06	640.31	598.68	545.71	506.86
47.5	735.18	734.65	717.32	690.98	677.93	671.10	655.01	643.45	561.70	526.18
50.0	704.24	697.60	704.97	698.55	705.42	720.36	670.46	630.79	602.72	538.30
52.5	731.76	717.76	704.53	692.89	692.15	689.36	679.20	659.57	609.40	561.01
55.0	720.57	703.76	711.36	761.85	738.42	700.78	686.18	659.99	656.02	579.65
57.5	672.07	663.78	671.46	673.69	698.85	747.34	703.73	685.69	650.68	618.77
60.0	716.17	705.38	693.57	684.03	681.74	688.22	688.44	723.32	681.78	623.97
62.5	685.64	681.59	705.99	737.12	727.61	708.94	686.75	690.08	693.39	622.55
65.0	655.88	642.52	657.50	666.46	699.42	726.67	713.05	699.23	671.93	649.39
67.5	681.22	679.22	681.51	688.80	686.51	699.05	709.05	725.84	680.43	637.36
70.0	643.88	636.94	665.67	701.07	713.47	718.96	699.78	717.73	708.03	654.88
72.5	613.46	602.35	626.42	657.06	698.67	722.41	709.51	723.87	703.26	678.73
75.0	627.16	615.46	640.55	665.47	668.91	701.98	717.92	755.22	718.30	662.94
77.5	613.54	606.59	628.75	663.85	688.68	702.61	699.66	736.65	722.61	674.09
80.0	609.31	598.50	634.28	665.92	699.45	701.64	700.30	728.45	700.76	668.80
82.5	604.88	601.82	640.50	680.03	710.45	710.82	717.62	742.29	709.57	660.51
85.0	605.78	607.58	633.00	669.40	684.04	708.90	697.63	734.79	708.34	668.43
87.5	607.38	600.21	629.27	659.50	680.05	714.42	729.29	736.10	700.89	646.30
90.0	601.19	597.01	640.04	694.31	737.02	733.50	730.29	729.39	692.88	648.78
92.5	642.75	646.26	682.43	714.77	704.62	702.37	698.28	700.90	681.01	644.31
95.0	615.69	614.81	642.32	674.90	684.95	723.30	727.18	729.07	688.37	642.03
97.5	613.18	617.63	654.79	694.29	732.76	743.34	724.53	692.48	643.94	628.09
100.0	654.04	661.91	700.84	712.73	691.83	694.03	688.58	665.32	647.66	629.00
102.5	618.57	613.70	638.45	664.98	683.17	702.40	712.17	697.61	636.40	588.03
105.0	625.17	628.66	665.60	708.15	728.07	724.86	689.59	647.86	592.12	601.54
107.5	674.60	674.67	696.69	699.94	677.87	702.96	681.30	674.00	627.12	556.34
110.0	631.32	627.89	655.75	679.12	692.87	719.61	686.49	624.67	572.37	557.33
112.5	674.02	689.10	708.37	730.84	698.71	690.31	657.34	623.90	585.14	528.30
115.0	622.74	635.40	647.28	666.92	671.31	694.90	656.42	581.57	534.00	500.76
117.5	644.54	641.38	657.69	674.30	665.84	654.31	589.33	544.53	508.79	481.10
120.0	599.62	599.04	600.75	610.06	606.61	613.26	567.61	524.29	490.26	457.43
122.5	560.15	562.40	573.74	585.82	587.31	585.66	543.69	504.31	465.90	419.67
125.0	533.67	534.58	543.12	553.02	560.46	559.97	506.74	471.23	428.89	379.57
127.5	509.33	512.91	521.39	528.26	512.22	509.43	459.25	438.15	375.37	335.06
130.0	465.00	466.33	469.11	476.22	468.32	456.00	411.72	369.40	322.98	289.21

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

132.5	412.78	411.27	410.92	414.72	405.09	382.36	355.18	319.34	274.74	242.04
135.0	349.81	351.37	350.49	351.93	346.99	328.70	299.07	271.27	238.03	201.10
137.5	297.49	296.24	295.43	293.73	288.27	268.33	246.07	219.37	192.67	166.55
140.0	241.36	242.97	240.39	235.70	231.54	212.09	192.24	173.95	153.32	135.42
142.5	189.36	189.40	187.16	182.14	176.16	163.46	148.26	134.78	118.35	105.18
145.0	147.13	144.96	141.77	138.98	132.12	122.06	110.32	100.64	93.52	82.91
147.5	110.78	108.95	107.70	104.62	97.47	90.65	85.20	79.62	74.48	69.07
150.0	82.80	82.61	80.34	77.83	75.41	71.25	66.73	63.31	59.48	55.62
152.5	64.68	63.11	63.23	61.33	59.29	56.23	54.33	50.61	47.28	43.81
155.0	50.46	50.87	50.01	48.86	47.44	45.28	42.08	39.58	37.09	33.82
157.5	40.38	40.24	39.50	38.06	37.00	35.55	32.87	30.26	27.41	24.42
160.0	31.59	31.64	31.07	30.18	29.05	27.51	25.45	22.83	19.50	16.19
162.5	24.30	24.32	24.06	23.30	22.34	20.94	18.89	16.15	13.24	10.65
165.0	18.75	18.59	18.35	17.74	16.91	15.55	13.62	11.66	9.40	7.25
167.5	13.98	13.89	13.70	13.34	12.73	11.58	9.81	8.33	6.67	5.06
170.0	10.31	10.24	10.02	9.59	9.11	8.21	7.34	6.17	5.20	4.06
172.5	7.56	7.39	8.79	6.94	6.19	5.69	4.55	3.79	2.91	2.71
175.0	5.01	4.64	7.60	4.30	4.14	3.89	3.47	3.23	3.09	3.09
177.5	5.32	4.92	6.41	4.63	4.56	4.12	3.61	3.68	3.54	2.96
180.0	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10

**Vert.
Angles**

Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58
2.5	113.17	112.23	110.61	109.72	108.37	106.86	105.35	103.78	102.20	100.41
5.0	126.54	125.22	122.62	119.98	117.33	113.69	110.61	107.13	103.54	100.60
7.5	145.24	142.32	139.34	134.85	128.19	121.38	114.78	109.29	104.51	100.39
10.0	167.14	162.97	154.87	145.94	136.63	127.48	120.09	113.73	106.77	100.95
12.5	190.26	181.70	170.76	157.99	145.30	136.72	127.15	118.45	110.02	101.51
15.0	218.00	201.40	183.76	168.61	155.88	143.98	134.90	123.87	111.38	102.13
17.5	239.45	219.16	199.07	181.51	168.31	157.03	142.36	126.52	112.77	102.75
20.0	265.20	239.00	219.27	201.82	184.24	167.34	145.27	129.08	115.11	102.99
22.5	297.54	269.08	240.87	217.21	197.75	174.69	149.36	132.34	115.40	102.95
25.0	326.70	294.10	264.16	231.97	206.61	177.69	153.78	135.44	115.62	102.73
27.5	347.76	311.96	281.10	250.39	220.13	184.03	161.97	138.11	118.18	103.40
30.0	373.97	333.90	299.07	270.68	233.00	194.68	169.09	140.55	118.29	103.26
32.5	389.02	351.74	318.15	290.50	243.83	205.14	173.92	142.33	118.07	101.83
35.0	408.39	376.37	340.85	309.85	254.45	214.77	174.07	144.94	117.35	100.89
37.5	437.67	402.59	358.17	312.04	258.01	222.88	177.89	146.51	117.26	99.66
40.0	455.47	422.84	372.13	330.65	269.74	228.09	183.68	145.35	116.31	98.39
42.5	470.95	438.92	388.38	340.34	284.93	234.31	184.60	144.75	113.53	96.01
45.0	482.87	447.05	400.35	346.94	285.69	235.63	188.50	142.17	111.37	93.05
47.5	490.93	460.81	408.68	351.21	294.75	235.87	184.31	140.43	108.94	89.85
50.0	502.31	465.64	425.48	361.10	309.15	242.42	185.99	137.96	105.48	85.99
52.5	521.52	484.09	438.60	370.70	313.25	243.98	183.51	134.46	101.73	82.13
55.0	558.41	493.85	428.48	372.02	305.89	240.48	181.23	131.36	96.83	77.55
57.5	556.29	520.79	438.37	369.74	312.32	243.33	177.32	125.24	93.90	73.61
60.0	602.88	506.78	471.94	381.74	321.72	239.35	172.36	119.26	89.20	69.14
62.5	583.77	553.54	474.56	392.35	309.74	237.16	170.05	113.94	84.05	64.89
65.0	602.24	556.77	501.33	409.17	313.44	241.12	164.51	109.43	79.54	61.26
67.5	629.34	570.50	497.17	420.71	326.14	236.25	159.76	102.77	74.52	57.57
70.0	628.51	587.31	498.12	419.80	326.22	233.49	151.34	96.60	69.19	53.17
72.5	647.33	585.02	505.24	429.16	322.21	232.99	142.17	88.51	62.52	48.22
75.0	659.66	613.00	510.76	430.78	321.02	226.74	132.90	81.04	56.15	42.68
77.5	653.99	608.52	529.94	444.55	329.15	220.29	125.98	73.93	49.88	38.11

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

80.0	682.17	633.85	523.38	448.77	335.42	218.22	121.87	67.54	45.02	34.16
82.5	636.38	611.70	515.14	447.12	331.71	211.77	113.45	61.98	40.29	31.11
85.0	637.68	599.49	498.58	433.16	322.32	205.33	107.94	56.89	36.62	29.37
87.5	650.71	606.91	495.74	418.94	311.71	200.09	101.98	53.94	33.55	28.49
90.0	629.66	578.45	484.59	406.15	295.52	190.05	96.77	51.78	32.05	28.22
92.5	630.80	577.19	481.26	393.28	282.83	179.51	93.72	50.98	32.85	28.15
95.0	614.68	547.90	460.89	375.97	269.97	173.60	91.03	51.76	33.66	28.09
97.5	598.61	527.49	448.90	354.84	256.61	162.16	88.32	53.27	35.09	27.79
100.0	590.00	496.30	432.27	339.40	245.65	154.45	87.49	54.24	36.01	27.92
102.5	573.89	490.81	426.07	322.16	231.28	144.42	86.50	55.08	37.02	28.10
105.0	570.96	478.34	409.82	307.60	217.65	138.99	85.90	56.26	38.51	28.88
107.5	526.22	462.67	386.20	288.36	208.64	134.18	85.27	57.64	40.05	30.13
110.0	508.47	419.79	365.16	276.23	199.67	129.24	84.34	58.79	42.17	31.53
112.5	474.36	393.10	345.61	259.21	187.43	125.10	84.48	59.95	43.67	32.95
115.0	440.25	381.54	310.02	241.47	173.21	117.74	82.25	60.65	45.21	34.14
117.5	406.14	360.08	290.37	217.75	159.09	110.38	79.66	59.98	46.23	34.75
120.0	372.03	330.29	267.19	202.35	143.67	103.35	76.45	59.13	46.43	34.52
122.5	337.92	289.96	237.33	182.94	131.18	94.81	73.18	57.78	46.34	33.42
125.0	303.80	255.41	208.86	157.51	118.03	87.74	69.91	56.36	45.55	31.73
127.5	269.69	227.85	182.99	142.83	106.37	80.91	66.58	54.61	44.45	31.53
130.0	235.58	195.90	156.16	121.94	94.32	74.53	62.59	52.53	43.43	31.90
132.5	199.47	171.48	135.20	107.78	84.21	69.30	58.99	50.60	42.29	31.62
135.0	167.69	141.82	115.31	93.27	74.31	64.08	54.95	47.74	40.62	31.18
137.5	138.28	118.55	97.92	80.53	66.28	58.57	51.10	44.96	38.56	30.51
140.0	112.61	99.44	83.07	69.19	59.26	53.80	46.95	41.85	36.14	29.00
142.5	91.01	80.63	69.75	60.42	52.88	48.61	42.18	37.93	33.01	26.69
145.0	75.04	66.56	58.67	52.64	46.71	42.63	36.94	33.44	29.21	24.21
147.5	61.94	55.84	49.76	44.16	39.52	35.51	30.95	28.69	25.20	21.33
150.0	50.76	45.80	40.91	36.25	32.37	28.66	24.90	23.44	21.08	18.15
152.5	40.33	36.42	32.31	28.69	25.54	22.50	20.02	18.93	17.07	14.94
155.0	30.53	27.14	24.23	21.49	18.76	16.26	15.57	14.32	13.27	11.67
157.5	21.51	18.76	16.79	14.77	12.75	10.97	10.66	10.34	9.39	8.44
160.0	13.68	11.35	9.88	8.51	7.22	6.37	6.80	6.32	5.77	5.30
162.5	8.01	6.05	4.60	3.51	2.71	2.70	2.87	2.81	2.45	2.16
165.0	5.33	3.58	2.27	1.20	0.73	0.78	0.77	0.72	0.60	0.92
167.5	4.21	2.84	1.65	1.09	0.86	0.74	0.51	0.36	0.12	0.42
170.0	3.17	1.78	1.67	1.36	1.24	0.89	0.72	0.49	0.49	0.16
172.5	2.73	2.28	1.95	1.81	1.46	1.09	0.84	0.67	0.41	0.00
175.0	2.84	2.50	2.34	2.07	1.89	1.22	0.83	0.87	0.50	0.03
177.5	2.69	2.59	2.34	2.04	1.79	1.26	0.65	0.83	0.21	0.00
180.0	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58
2.5	99.04	97.45	95.90	94.83	93.33	92.17	90.55	89.98	88.91	87.71
5.0	97.57	94.97	92.76	90.30	88.44	86.55	84.84	83.31	81.47	80.14
7.5	96.34	92.76	90.00	87.36	84.69	82.08	79.75	77.21	75.00	73.10
10.0	95.89	91.36	87.66	84.18	80.54	77.42	74.25	71.86	69.35	67.05
12.5	95.13	90.58	86.18	81.48	77.17	73.08	70.14	66.94	63.92	61.58
15.0	95.27	89.47	84.11	78.88	73.96	69.66	65.65	62.08	58.66	56.22
17.5	94.73	88.35	81.95	75.78	70.62	66.17	61.46	57.60	54.47	52.05
20.0	94.27	87.33	80.02	73.11	67.53	62.00	57.27	53.60	50.63	48.30
22.5	93.86	85.85	77.79	70.42	63.72	58.27	53.74	50.08	47.49	45.39
25.0	92.80	84.43	75.75	67.52	60.70	54.97	50.47	46.96	44.23	42.55

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

CANDELA TABULATION - (Cont.)

27.5	92.88	83.18	73.59	64.83	57.69	51.92	47.52	44.37	41.65	39.51
30.0	91.82	81.62	71.87	62.41	55.10	49.29	45.01	41.69	38.94	35.94
32.5	90.53	80.06	69.37	60.33	52.53	46.59	42.56	38.93	35.34	31.98
35.0	89.36	78.12	67.17	58.24	49.94	44.19	39.86	35.93	31.81	28.23
37.5	87.07	75.67	65.06	55.46	47.38	41.48	37.10	32.49	28.15	24.58
40.0	84.71	72.87	62.39	53.13	45.07	39.00	34.24	29.21	24.62	20.97
42.5	81.51	69.95	59.50	50.36	42.41	36.53	31.37	26.14	21.41	17.71
45.0	78.28	66.96	56.66	47.45	39.65	33.78	28.47	22.66	18.09	14.33
47.5	74.96	63.43	53.56	45.05	36.94	31.13	25.47	19.69	15.10	11.13
50.0	71.43	60.19	50.60	41.67	34.14	28.19	22.32	16.66	11.92	7.99
52.5	67.85	57.07	47.69	39.17	31.57	25.63	19.58	14.01	9.20	4.81
55.0	63.85	53.60	45.06	36.50	29.00	22.88	16.92	11.41	6.76	4.04
57.5	59.59	50.51	42.08	33.90	26.60	20.60	14.76	9.88	6.59	4.15
60.0	55.75	47.04	39.59	31.50	24.43	18.65	13.11	9.36	6.30	4.00
62.5	52.34	43.90	36.87	29.20	22.41	17.10	12.55	9.34	6.34	4.22
65.0	49.09	41.27	34.55	27.22	20.77	16.35	12.64	9.58	6.62	4.48
67.5	46.05	38.86	32.29	25.56	19.70	15.86	12.65	9.62	6.97	4.46
70.0	42.73	36.40	30.33	24.19	19.09	15.73	12.53	9.71	6.90	4.48
72.5	39.50	34.25	28.63	23.17	18.91	15.53	12.55	9.77	6.82	4.48
75.0	36.44	32.49	27.36	22.59	18.73	15.42	12.40	9.46	6.73	4.55
77.5	33.28	30.63	26.68	22.51	18.69	15.33	12.32	9.18	6.56	4.65
80.0	30.78	28.92	25.93	22.04	18.36	15.17	12.19	9.16	6.54	4.57
82.5	29.05	27.69	25.32	21.76	18.23	15.08	12.15	8.93	6.44	4.46
85.0	28.01	26.95	24.55	21.29	18.02	14.64	11.66	8.85	6.64	4.54
87.5	27.49	25.77	23.62	20.97	17.78	14.32	11.42	8.59	6.36	4.31
90.0	26.93	25.36	23.34	20.50	17.32	14.15	11.07	8.35	6.07	4.17
92.5	26.77	25.10	22.63	20.06	17.04	13.76	10.74	8.25	6.02	4.27
95.0	26.46	24.44	22.22	19.61	16.61	13.46	10.23	8.02	5.73	3.96
97.5	25.92	24.07	21.50	19.01	16.05	13.10	9.86	7.62	5.39	3.71
100.0	24.85	22.89	20.47	18.01	15.46	12.54	9.46	7.20	5.08	3.16
102.5	23.65	21.59	18.89	16.43	14.52	12.02	9.06	6.43	4.45	2.64
105.0	22.90	20.10	17.30	14.64	13.05	11.05	8.32	5.84	3.83	2.43
107.5	22.56	18.76	15.60	12.72	10.89	9.91	7.65	5.46	3.54	2.08
110.0	22.73	17.11	13.40	10.66	8.77	8.16	6.96	4.86	3.23	1.70
112.5	23.12	14.74	10.73	7.81	6.52	6.27	5.63	4.36	3.02	1.70
115.0	23.42	12.24	7.93	5.32	4.74	4.62	4.06	3.42	2.54	1.46
117.5	23.08	10.24	4.67	3.16	3.05	3.21	2.97	2.49	1.76	1.08
120.0	21.43	8.52	1.88	1.63	2.12	2.15	2.07	1.62	1.03	0.47
122.5	19.34	7.88	0.53	0.62	1.35	1.42	1.38	1.12	0.59	0.21
125.0	18.81	8.65	1.65	0.10	0.67	0.76	0.72	0.86	0.20	0.00
127.5	19.71	10.24	3.68	0.00	0.07	0.38	0.30	0.59	0.02	0.05
130.0	20.47	11.38	5.53	0.98	0.03	0.05	0.19	0.33	0.00	0.00
132.5	21.10	12.65	6.66	2.42	0.00	0.00	0.00	0.07	0.00	0.00
135.0	21.17	13.41	7.84	3.83	0.98	0.00	0.00	0.00	0.00	0.00
137.5	20.94	13.94	8.64	4.89	2.26	0.01	0.00	0.00	0.00	0.00
140.0	20.39	14.14	9.29	5.40	2.89	1.12	0.00	0.00	0.00	0.00
142.5	19.68	13.91	9.45	5.89	3.57	1.98	0.62	0.00	0.00	0.00
145.0	18.23	13.15	9.24	6.10	3.80	2.10	0.60	0.00	0.00	0.00
147.5	16.53	12.10	8.64	5.86	3.51	1.23	0.13	0.00	0.00	0.00
150.0	14.46	10.76	7.77	4.97	2.63	0.91	0.00	0.00	0.00	0.00
152.5	12.15	9.04	6.42	3.75	1.95	0.19	0.00	0.00	0.00	0.00
155.0	9.58	7.16	4.91	2.64	0.92	0.00	0.00	0.00	0.00	0.00
157.5	6.90	5.12	3.18	1.81	0.27	0.00	0.00	0.00	0.00	0.00
160.0	4.28	2.95	1.64	0.28	0.00	0.00	0.00	0.00	0.00	0.00
162.5	1.69	0.96	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.13	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

CANDELA TABULATION - (Cont.)

167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.14	0.11	0.37
177.5	0.00	0.05	0.13	0.21	0.32	0.61	0.74	0.62	0.72	0.77
180.0	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10

Vert. Angles	Horizontal Angles									
	150	155	160	165	170	175	180	185	190	195
0.0	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58
2.5	87.12	86.10	85.61	84.99	84.64	84.22	86.49	87.51	87.69	87.99
5.0	78.71	77.24	76.59	75.60	74.87	74.44	77.15	77.88	78.21	78.70
7.5	71.16	69.98	68.60	67.52	66.91	66.47	68.80	69.17	69.86	70.34
10.0	65.04	63.42	61.98	60.58	59.82	59.43	61.87	62.09	62.51	63.16
12.5	59.13	57.18	55.89	54.67	53.89	53.28	55.69	55.51	55.98	56.70
15.0	54.11	52.58	51.32	50.13	49.72	49.44	51.04	51.14	51.42	52.46
17.5	50.36	48.63	47.67	47.01	46.62	46.26	47.64	47.90	48.10	48.71
20.0	46.95	45.55	44.53	44.32	43.71	43.43	44.80	44.96	45.02	45.81
22.5	43.81	42.74	41.53	40.84	40.15	39.93	41.51	41.55	42.01	42.83
25.0	40.94	39.17	37.86	37.07	36.58	36.08	38.06	38.13	38.53	39.23
27.5	37.48	35.29	33.74	32.87	32.61	32.36	34.11	34.12	34.50	35.02
30.0	33.08	31.12	29.75	28.84	28.59	28.36	30.10	30.03	30.51	31.14
32.5	29.01	27.02	25.83	24.91	24.47	24.81	26.15	26.22	26.48	27.17
35.0	25.31	23.28	22.07	21.34	20.96	21.06	22.35	22.42	22.91	23.39
37.5	21.62	19.59	18.71	17.75	17.49	16.99	18.60	18.85	18.96	19.61
40.0	18.32	16.30	14.76	13.99	13.47	13.16	14.40	14.67	14.94	15.50
42.5	14.90	12.79	11.10	9.94	9.30	8.78	10.33	10.16	10.59	11.25
45.0	11.69	9.12	6.99	5.57	4.61	3.93	5.35	5.53	5.89	6.85
47.5	7.99	5.17	2.68	1.31	0.54	0.23	0.03	0.79	0.98	1.79
50.0	4.63	1.63	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
52.5	2.40	0.84	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
55.0	2.29	0.86	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.10
57.5	2.19	0.76	0.01	0.00	0.00	0.00	0.00	0.08	0.00	0.00
60.0	2.29	0.84	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
62.5	2.56	0.96	0.24	0.11	0.02	0.09	0.00	0.00	0.01	0.00
65.0	2.52	1.23	0.41	0.15	0.07	0.00	0.03	0.00	0.22	0.01
67.5	2.67	1.25	0.59	0.37	0.17	0.11	0.00	0.20	0.15	0.22
70.0	2.65	1.41	0.70	0.55	0.25	0.23	0.16	0.33	0.26	0.18
72.5	2.92	1.44	0.91	0.58	0.31	0.21	0.39	0.49	0.56	0.69
75.0	2.74	1.61	0.84	0.67	0.44	0.36	0.69	0.66	0.66	0.98
77.5	2.97	1.64	0.99	0.75	0.43	0.42	0.96	0.98	0.93	1.11
80.0	3.02	1.82	0.93	0.80	0.52	0.39	1.14	0.95	1.33	1.40
82.5	3.01	1.65	1.18	0.73	0.75	0.66	1.32	1.16	1.51	1.47
85.0	2.85	1.69	1.24	0.86	0.65	0.47	1.39	1.64	1.50	1.60
87.5	2.74	1.57	1.13	0.96	0.69	0.52	1.72	1.51	1.74	1.92
90.0	2.59	1.49	1.07	0.79	0.57	0.55	1.47	1.55	1.59	1.87
92.5	2.45	1.43	1.02	0.68	0.56	0.49	1.44	1.61	1.63	1.73
95.0	2.26	1.21	0.96	0.72	0.56	0.47	1.40	1.54	1.59	1.54
97.5	2.01	1.14	0.74	0.60	0.51	0.30	1.45	1.27	1.30	1.33
100.0	1.86	0.81	0.68	0.33	0.35	0.18	1.07	1.26	1.17	1.19
102.5	1.16	0.73	0.51	0.19	0.43	0.10	1.07	0.85	0.89	1.05
105.0	1.08	0.36	0.36	0.27	0.05	0.05	0.72	0.59	0.76	0.81
107.5	0.80	0.46	0.24	0.09	0.13	0.07	0.80	0.30	0.43	0.54
110.0	0.75	0.04	0.04	0.08	0.00	0.00	0.10	0.10	0.16	0.23
112.5	0.73	0.02	0.06	0.00	0.00	0.01	0.00	0.11	0.00	0.00

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

CANDELA TABULATION - (Cont.)

115.0	0.48	0.05	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
117.5	0.46	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
120.0	0.27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00
172.5	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.65	0.00
175.0	0.46	0.34	0.53	0.38	0.74	1.11	0.91	0.66	2.84	0.41
177.5	0.87	1.05	1.14	1.38	1.81	1.89	1.32	1.62	4.03	1.76
180.0	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10

Vert. Angles **Horizontal Angles**

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0.0	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58
2.5	88.69	89.13	89.93	90.71	91.44	92.69	93.52	94.77	95.77	96.74
5.0	79.59	80.55	81.65	82.74	84.51	86.11	87.77	89.29	90.98	93.04
7.5	71.46	72.49	74.02	75.73	77.54	79.64	81.98	84.52	87.07	89.40
10.0	64.55	66.16	67.65	69.62	71.84	74.43	77.14	80.01	83.13	86.43
12.5	58.10	59.67	61.62	63.89	66.37	68.94	72.21	75.37	79.17	82.80
15.0	53.66	54.67	56.19	58.20	60.83	64.13	67.56	71.62	75.24	79.62
17.5	49.84	50.81	52.38	54.09	56.59	59.54	62.93	67.14	71.64	76.60
20.0	46.67	47.61	48.80	50.64	52.97	55.54	59.06	63.40	68.53	73.68
22.5	43.58	44.97	46.16	47.66	49.77	52.39	55.70	59.78	64.49	70.45
25.0	39.98	41.51	43.16	44.92	46.85	49.37	52.52	56.24	61.64	67.36
27.5	36.38	37.37	39.32	41.65	44.09	46.37	49.34	53.42	58.54	64.31
30.0	31.96	33.28	35.05	37.38	40.57	43.57	46.97	50.51	55.65	62.26
32.5	27.95	29.39	30.91	33.64	36.56	40.05	43.85	48.01	53.02	59.81
35.0	24.08	24.97	26.88	29.24	32.67	36.35	40.93	45.26	50.71	57.48
37.5	20.29	21.15	23.01	25.44	28.68	32.42	37.44	42.65	48.38	55.32
40.0	16.42	17.58	19.31	21.68	24.78	28.86	34.06	39.76	45.71	53.02
42.5	12.30	13.53	15.49	18.23	21.00	25.28	30.62	36.80	42.78	50.75
45.0	7.95	9.43	11.86	14.56	17.86	22.20	27.29	33.70	40.12	47.78
47.5	3.31	5.03	7.91	10.85	14.55	19.07	24.24	30.59	37.06	44.83
50.0	0.09	0.71	3.79	7.17	11.16	15.77	21.09	27.59	34.22	41.90
52.5	0.01	0.22	1.47	3.52	7.95	12.59	18.03	24.68	31.32	38.80
55.0	0.08	0.26	1.40	3.19	5.57	9.87	15.58	21.54	28.77	36.07
57.5	0.02	0.26	1.21	2.93	5.05	7.98	12.87	19.28	25.83	32.99
60.0	0.02	0.16	1.15	2.59	4.66	7.59	11.26	16.51	23.12	30.11

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

CANDELA TABULATION - (Cont.)

62.5	0.01	0.20	1.33	2.79	4.69	7.35	10.78	15.14	21.10	27.79
65.0	0.16	0.44	1.33	3.01	4.89	7.65	10.83	14.64	19.39	25.56
67.5	0.33	0.73	1.65	3.14	5.20	7.74	11.02	14.59	18.66	23.81
70.0	0.75	1.08	2.02	3.30	5.21	7.87	11.14	14.49	18.46	22.68
72.5	0.85	1.03	2.06	3.61	5.38	8.02	11.35	14.54	18.13	21.76
75.0	1.31	1.47	2.27	3.72	5.79	8.07	11.44	14.86	17.98	21.25
77.5	1.42	1.60	2.54	4.05	5.76	8.23	11.54	14.76	17.97	20.99
80.0	1.67	1.95	2.78	3.98	5.93	8.29	11.57	14.71	17.92	20.80
82.5	1.72	2.06	2.81	4.22	6.04	8.28	11.39	14.73	17.84	20.39
85.0	1.81	2.19	2.90	4.39	6.22	8.34	11.33	14.54	17.64	20.14
87.5	2.02	2.30	2.79	4.27	6.09	8.00	11.11	14.49	17.39	19.87
90.0	2.19	2.33	3.12	4.17	5.86	7.83	10.84	14.04	17.39	19.80
92.5	1.81	2.27	2.96	4.15	5.71	7.78	10.38	13.75	16.78	19.51
95.0	1.90	2.08	2.78	4.02	5.56	7.40	9.87	13.23	16.40	19.20
97.5	1.63	1.93	2.43	3.75	5.30	7.13	9.26	12.55	15.80	18.87
100.0	1.48	1.67	1.97	3.06	4.85	6.68	8.90	11.94	15.20	18.19
102.5	1.03	1.39	1.83	2.95	4.17	6.07	8.00	11.01	14.35	17.43
105.0	1.00	0.96	1.27	2.31	3.76	5.42	7.43	10.40	13.13	15.92
107.5	0.53	0.64	1.04	1.83	3.18	4.89	6.75	9.26	11.48	14.48
110.0	0.35	0.30	0.55	1.52	2.70	4.41	6.10	8.27	9.66	12.78
112.5	0.02	0.04	0.36	1.27	2.52	3.84	5.33	6.37	7.46	10.63
115.0	0.00	0.00	0.16	0.97	2.16	3.28	4.02	4.61	5.48	8.10
117.5	0.00	0.00	0.00	0.66	1.55	2.29	2.77	3.21	3.74	5.38
120.0	0.00	0.00	0.00	0.44	1.08	1.56	1.71	2.11	2.40	3.02
122.5	0.00	0.00	0.00	0.22	0.49	0.51	1.07	1.28	1.40	1.32
125.0	0.00	0.00	0.00	0.00	0.28	0.41	0.56	0.70	0.73	0.19
127.5	0.00	0.00	0.00	0.00	0.01	0.08	0.23	0.18	0.07	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.43
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.90
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	2.84
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	1.45	3.19
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.52	1.77	3.32
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.08	1.68	3.33
147.5	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.86	1.55	3.00
150.0	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.28	1.09	2.43
152.5	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.07	0.64	1.56
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.59
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.06
172.5	0.00	0.00	0.00	0.00	0.01	0.12	0.10	0.03	0.12	0.16
175.0	0.60	0.38	0.40	0.46	0.43	0.30	0.42	0.23	0.02	0.02
177.5	1.33	1.28	1.10	1.14	1.23	1.11	0.92	0.77	0.81	0.89
180.0	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10

Vert. Angles **Horizontal Angles**

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0.0	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58
2.5	97.64	98.98	99.96	100.98	101.88	103.01	103.76	104.55	105.32	106.32
5.0	94.76	96.75	98.93	100.78	103.30	105.79	108.50	109.96	111.75	114.20
7.5	91.91	94.64	97.38	100.73	104.61	109.12	113.55	120.27	125.75	128.39

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

CANDELA TABULATION - (Cont.)

10.0	90.03	93.24	96.63	100.66	105.04	110.65	117.21	124.28	131.34	139.45
12.5	87.02	91.47	95.64	100.76	107.61	113.39	120.40	129.08	138.36	147.71
15.0	84.42	89.78	94.69	101.17	108.49	120.52	127.88	135.45	145.11	155.33
17.5	82.03	88.32	94.31	100.68	109.19	120.04	135.87	145.69	155.21	168.57
20.0	79.47	86.24	93.40	101.05	110.69	121.58	134.50	157.22	168.97	183.04
22.5	77.14	84.26	92.36	100.89	110.70	126.87	137.70	156.53	180.15	194.27
25.0	74.37	82.93	91.71	100.83	112.07	128.76	145.03	162.39	190.37	210.95
27.5	72.25	81.58	90.88	101.45	113.59	129.34	152.10	171.07	195.66	230.49
30.0	70.13	80.07	90.32	101.04	113.22	132.46	153.74	176.92	205.74	253.10
32.5	68.02	78.53	89.86	100.30	113.61	132.82	156.24	184.21	216.73	265.08
35.0	66.09	76.23	88.62	100.13	113.30	133.72	159.30	193.53	227.19	272.99
37.5	64.50	74.73	87.37	99.11	113.00	134.20	164.25	198.95	238.99	290.30
40.0	62.47	72.66	85.11	98.16	112.33	134.56	165.11	206.88	244.83	302.40
42.5	60.16	70.56	82.18	96.53	109.93	134.88	165.43	210.38	258.34	308.47
45.0	57.55	67.96	79.35	93.56	107.98	131.90	170.40	214.50	265.37	317.63
47.5	54.61	64.70	75.67	89.12	104.75	130.11	167.02	213.91	274.60	330.99
50.0	51.58	61.33	71.82	84.55	100.95	126.75	165.37	219.55	279.10	348.82
52.5	47.94	57.58	67.71	80.15	96.94	122.24	164.60	222.72	285.56	356.02
55.0	44.91	53.77	63.80	75.68	92.51	117.61	158.21	219.24	286.52	354.24
57.5	41.52	50.40	59.90	70.56	87.79	113.21	156.18	219.42	288.01	358.13
60.0	38.25	46.50	55.57	65.83	82.52	106.18	151.10	212.32	288.91	370.86
62.5	35.44	43.55	51.57	60.95	76.37	99.60	144.09	212.74	286.98	370.26
65.0	32.79	40.35	47.42	56.02	70.27	93.06	137.07	210.09	288.59	376.49
67.5	30.55	37.54	43.43	51.43	64.80	87.38	129.90	201.62	286.48	387.61
70.0	28.26	34.37	39.64	46.75	59.10	80.91	123.64	199.11	285.90	393.46
72.5	26.45	31.55	35.95	42.25	54.10	75.15	118.11	192.33	290.98	390.18
75.0	24.87	29.33	32.97	37.92	48.57	68.79	108.66	189.15	287.92	394.05
77.5	24.21	27.32	30.35	34.03	43.17	61.59	98.87	180.20	281.15	390.87
80.0	23.73	26.38	28.27	31.15	38.19	55.02	92.96	174.61	283.45	387.03
82.5	23.41	25.95	27.22	28.81	33.42	48.56	86.18	167.44	272.77	384.77
85.0	22.72	25.04	26.38	27.51	30.19	42.60	78.30	163.93	271.46	385.15
87.5	22.36	24.69	26.02	26.93	28.52	38.90	74.11	152.52	263.09	374.81
90.0	22.11	24.17	26.15	27.04	28.32	36.53	69.86	142.31	257.71	366.66
92.5	21.61	23.99	26.29	27.12	28.32	36.14	66.12	131.26	246.51	351.43
95.0	21.66	23.90	26.42	27.53	28.61	37.58	64.51	124.35	231.38	344.21
97.5	21.53	23.90	26.56	28.33	29.99	40.27	65.32	118.76	218.93	331.04
100.0	20.82	23.89	26.62	28.75	31.55	42.51	66.38	114.82	204.61	308.47
102.5	20.24	23.55	26.64	29.13	33.71	45.77	68.29	114.28	193.45	290.98
105.0	19.11	22.74	26.42	29.94	36.24	48.65	70.67	110.87	186.98	271.15
107.5	17.93	21.85	26.01	31.54	39.09	51.78	72.38	108.88	179.30	255.62
110.0	16.49	20.72	25.56	33.40	41.87	55.04	73.04	107.38	166.27	244.40
112.5	14.64	18.91	25.08	35.20	44.19	57.39	73.71	105.99	157.03	228.47
115.0	12.18	16.79	25.20	36.44	46.25	58.79	74.37	102.66	146.84	210.10
117.5	9.29	14.55	24.73	37.17	47.55	59.58	75.04	98.04	137.21	193.62
120.0	6.12	11.55	24.37	37.16	48.45	59.27	73.04	93.18	125.51	171.48
122.5	2.76	9.01	22.38	36.22	48.17	58.32	69.98	88.02	114.98	156.07
125.0	0.63	7.22	18.62	33.69	46.81	56.35	66.74	82.46	105.70	140.87
127.5	0.90	6.89	16.31	29.91	44.16	53.64	63.04	76.33	94.33	124.30
130.0	2.56	8.03	15.89	27.48	41.00	50.78	58.49	70.94	83.54	108.78
132.5	4.09	8.90	16.16	26.50	37.98	46.80	54.07	64.51	74.49	94.09
135.0	5.04	9.57	16.44	25.53	35.00	42.76	48.97	58.14	66.62	81.43
137.5	5.64	9.89	16.01	24.39	32.10	38.35	43.99	51.80	59.54	69.78
140.0	5.94	9.78	15.49	22.66	29.20	34.69	39.37	45.74	52.51	60.86
142.5	5.96	9.39	14.64	20.97	26.16	30.69	33.95	39.82	46.27	52.81
145.0	5.58	8.85	13.48	18.29	22.13	25.78	28.41	33.50	39.40	44.77
147.5	4.98	7.81	11.47	15.45	18.01	20.68	22.64	26.64	32.27	37.23

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

CANDELA TABULATION - (Cont.)

150.0	4.31	6.66	9.54	12.60	14.54	16.10	17.28	20.80	25.23	30.26
152.5	3.09	5.33	7.65	9.52	11.01	12.14	12.59	15.21	19.00	23.31
155.0	1.60	3.04	4.94	6.42	7.11	7.87	8.40	9.88	12.60	16.39
157.5	0.51	1.16	2.09	2.95	3.54	3.92	4.08	4.75	7.10	10.15
160.0	0.00	0.17	0.51	0.73	0.88	1.20	1.10	1.17	3.39	5.79
162.5	0.00	0.00	0.00	0.00	0.05	0.01	0.10	0.22	1.23	3.60
165.0	0.03	0.03	0.01	0.00	0.00	0.03	0.11	0.14	0.07	2.35
167.5	0.17	0.08	0.05	0.19	0.24	0.43	0.40	0.40	0.66	0.88
170.0	0.24	0.39	0.13	0.46	0.38	0.67	0.93	0.78	1.00	1.10
172.5	0.13	0.18	0.12	0.63	0.54	0.62	0.96	1.14	1.33	1.33
175.0	0.26	0.06	0.12	0.25	0.58	0.44	0.85	1.29	1.35	1.66
177.5	0.59	0.57	0.31	0.12	0.34	0.60	0.58	0.69	1.12	1.57
180.0	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10

Vert. Angles	Horizontal Angles									
	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0.0	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58	99.58
2.5	106.88	107.87	108.41	109.27	109.50	110.43	110.58	110.71	111.04	111.20
5.0	116.44	118.70	120.83	122.32	124.10	127.33	127.27	128.15	129.28	130.17
7.5	129.68	131.82	135.30	138.38	141.30	144.24	147.18	149.82	151.56	153.51
10.0	148.53	152.41	154.87	157.93	162.96	167.06	172.01	175.67	178.80	181.45
12.5	156.92	165.99	177.60	185.78	187.84	192.14	197.47	204.73	208.75	213.15
15.0	167.74	181.98	198.93	214.85	218.87	220.68	227.63	235.25	243.58	250.54
17.5	184.35	202.30	221.87	242.46	252.13	260.31	266.67	275.85	286.09	294.45
20.0	203.31	223.76	243.43	273.50	294.54	307.23	308.79	315.96	325.79	336.51
22.5	217.69	244.03	269.85	303.00	332.77	344.48	352.76	358.94	366.29	380.07
25.0	234.08	262.19	297.02	333.17	370.36	384.46	395.19	403.63	410.08	421.17
27.5	257.78	286.56	318.22	349.70	392.57	429.39	434.35	445.78	451.74	464.48
30.0	276.45	309.41	338.57	375.23	412.88	462.33	483.92	490.65	494.90	499.41
32.5	296.17	332.13	372.93	400.26	439.27	489.47	510.83	508.18	518.28	525.60
35.0	317.09	354.24	399.66	437.22	469.15	500.26	529.69	544.04	561.53	574.07
37.5	335.63	369.38	425.61	460.86	482.49	522.00	580.74	584.26	591.13	598.51
40.0	349.04	390.06	440.57	475.96	506.35	556.00	591.66	602.99	624.71	629.42
42.5	360.91	414.21	453.13	491.64	529.67	574.66	611.67	631.25	647.35	661.76
45.0	376.56	426.26	476.29	496.95	539.07	598.10	630.18	658.64	713.03	708.71
47.5	385.70	440.64	487.36	503.09	556.56	614.99	684.09	685.81	694.12	698.96
50.0	399.45	469.41	493.02	529.12	578.62	647.85	674.97	690.33	730.03	734.95
52.5	411.87	476.78	505.45	539.92	614.42	661.00	709.21	709.77	721.35	715.66
55.0	403.48	482.28	527.15	573.71	612.66	705.92	691.68	704.27	717.78	738.26
57.5	405.23	492.09	554.41	580.82	660.30	673.59	710.45	739.64	777.10	727.48
60.0	417.76	523.25	554.34	626.34	630.09	688.97	737.82	726.93	702.83	702.35
62.5	437.26	526.34	585.31	597.03	648.38	713.64	711.55	712.05	730.70	739.43
65.0	446.05	546.42	579.69	612.13	689.44	707.36	717.52	734.22	756.77	718.34
67.5	447.98	536.53	595.38	652.25	661.37	714.40	753.18	737.73	709.72	702.44
70.0	456.22	555.54	612.15	636.67	670.92	741.57	751.28	719.72	728.94	726.16
72.5	471.04	569.12	608.08	654.34	700.19	727.75	728.30	740.43	742.55	729.48
75.0	466.81	565.09	634.28	656.52	692.43	736.48	762.49	735.57	729.10	699.95
77.5	475.88	579.59	617.59	650.30	692.37	759.71	764.80	725.23	701.86	707.46
80.0	481.57	566.44	637.44	672.23	700.76	745.58	735.42	718.33	719.93	706.96
82.5	480.29	575.17	638.28	661.00	692.68	758.19	754.15	738.61	737.31	726.33
85.0	475.92	552.66	615.42	661.23	697.82	764.69	754.38	723.34	729.39	712.10
87.5	472.10	555.88	656.50	680.29	692.67	745.52	761.88	734.41	707.57	690.88
90.0	474.26	542.47	642.26	648.77	663.70	738.95	766.67	747.05	746.37	721.45
92.5	471.04	534.71	633.85	651.77	683.31	724.82	719.02	722.40	737.35	735.60
95.0	455.71	509.96	628.57	651.78	688.35	727.76	742.25	716.82	720.99	696.66

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

CANDELA TABULATION - (Cont.)

97.5	453.40	498.95	606.07	627.44	654.81	704.67	734.64	744.91	734.18	701.36
100.0	427.68	487.92	595.53	645.00	646.05	676.45	694.78	694.31	714.20	728.43
102.5	407.51	473.52	569.96	602.98	633.58	711.85	730.00	707.11	697.98	687.83
105.0	379.47	456.60	548.76	597.35	601.92	654.90	709.42	738.87	720.69	706.37
107.5	352.06	431.56	502.84	545.71	619.24	663.37	683.85	689.25	690.95	722.84
110.0	327.83	394.97	482.67	543.66	563.51	633.75	686.10	707.49	692.84	678.24
112.5	308.76	378.75	443.74	503.62	554.80	590.89	637.33	674.63	705.56	746.25
115.0	286.43	358.29	416.94	490.21	525.78	555.94	620.16	665.31	669.03	671.08
117.5	257.26	332.36	409.99	455.70	501.48	528.75	568.10	612.82	664.77	683.64
120.0	237.42	305.06	368.54	432.76	478.27	498.55	552.19	582.35	606.05	619.53
122.5	211.56	270.35	329.89	395.73	455.87	491.68	537.46	570.34	586.00	589.14
125.0	185.13	240.73	296.04	361.32	413.69	453.06	509.93	549.62	555.19	560.59
127.5	163.00	216.62	264.95	316.18	364.06	412.65	455.07	500.90	522.59	538.64
130.0	141.85	185.93	222.29	274.86	319.40	369.20	406.34	464.36	478.39	484.49
132.5	122.43	156.55	185.48	228.66	271.48	315.48	360.80	403.71	429.62	434.42
135.0	101.76	129.19	153.71	190.30	224.29	265.05	312.52	340.57	360.00	373.21
137.5	85.02	103.98	127.07	150.45	184.21	214.77	255.24	279.14	303.97	316.81
140.0	72.47	86.48	102.37	120.49	146.48	172.29	200.42	223.17	246.52	259.34
142.5	61.75	72.95	83.72	95.78	112.73	134.38	156.19	177.42	193.74	203.37
145.0	51.98	59.95	68.47	77.01	86.98	100.80	118.09	134.87	147.98	154.71
147.5	43.10	49.48	56.19	62.14	69.78	77.65	90.01	101.16	110.59	115.92
150.0	34.59	39.97	45.72	51.25	57.00	63.40	70.00	77.19	82.16	86.89
152.5	27.28	31.57	36.31	41.03	46.34	51.67	56.14	60.65	64.61	66.93
155.0	19.78	23.33	27.58	32.10	36.71	41.45	45.25	48.57	51.68	53.50
157.5	13.45	17.08	20.86	24.61	28.67	32.82	35.96	38.92	40.77	42.36
160.0	8.78	12.28	15.71	18.81	22.26	25.14	28.15	30.17	31.92	33.13
162.5	5.88	8.83	11.53	14.46	17.09	19.14	21.32	23.28	24.96	25.86
165.0	4.21	6.08	8.19	10.60	12.64	14.56	16.19	17.63	18.55	19.76
167.5	2.86	4.57	6.06	7.51	9.23	10.55	11.85	12.99	14.09	14.84
170.0	1.17	2.59	4.17	5.46	6.48	7.33	8.20	9.29	10.07	10.62
172.5	1.38	1.54	1.89	2.65	3.76	4.72	5.65	6.56	7.30	7.60
175.0	1.83	2.01	2.07	2.69	2.66	2.95	3.23	3.54	4.31	4.77
177.5	1.90	2.26	2.31	2.78	3.02	3.18	3.31	3.84	4.06	4.29
180.0	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10

Vert. Angles **Horizontal Angles**

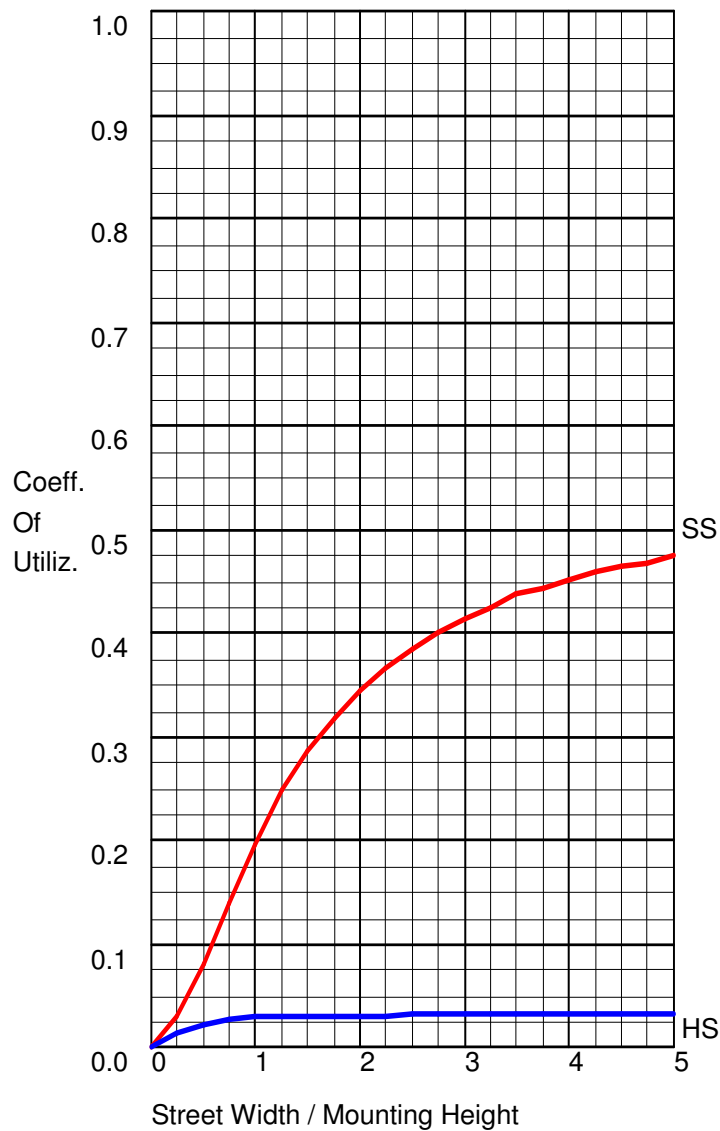
	<u>350</u>	<u>355</u>	<u>360</u>
0.0	99.58	99.58	99.58
2.5	111.28	111.09	111.05
5.0	131.32	131.16	132.58
7.5	154.38	155.47	158.27
10.0	183.13	184.16	188.69
12.5	214.21	215.86	221.65
15.0	254.03	255.56	264.85
17.5	300.71	302.48	310.11
20.0	343.31	343.84	351.94
22.5	388.50	392.25	401.57
25.0	430.80	438.13	445.99
27.5	480.54	485.39	492.79
30.0	504.46	513.48	508.06
32.5	533.42	542.87	566.41
35.0	590.74	591.65	595.99
37.5	605.05	616.62	623.51
40.0	633.19	642.91	642.44
42.5	680.25	701.31	701.33

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPS2-L26-850.IES

CANDELA TABULATION - (Cont.)

45.0	703.72	703.63	692.66
47.5	696.64	728.57	735.18
50.0	727.41	734.66	704.24
52.5	709.24	723.46	731.76
55.0	766.03	765.87	720.57
57.5	695.79	697.56	672.07
60.0	694.47	707.38	716.17
62.5	747.99	746.42	685.64
65.0	687.96	669.90	655.88
67.5	694.93	688.42	681.22
70.0	711.62	694.80	643.88
72.5	666.90	623.47	613.46
75.0	672.25	641.65	627.16
77.5	665.23	634.15	613.54
80.0	661.49	630.75	609.31
82.5	665.07	631.21	604.88
85.0	664.17	624.55	605.78
87.5	658.86	620.17	607.38
90.0	661.97	611.32	601.19
92.5	693.07	657.60	642.75
95.0	674.78	641.24	615.69
97.5	667.60	629.86	613.18
100.0	707.90	679.26	654.04
102.5	661.15	642.15	618.57
105.0	669.11	633.68	625.17
107.5	714.84	692.27	674.60
110.0	664.79	641.42	631.32
112.5	697.70	675.12	674.02
115.0	662.67	664.33	622.74
117.5	667.69	644.30	644.54
120.0	633.94	633.84	599.62
122.5	588.53	577.08	560.15
125.0	561.11	551.60	533.67
127.5	536.30	523.02	509.33
130.0	488.51	482.29	465.00
132.5	439.27	435.83	412.78
135.0	374.88	371.41	349.81
137.5	317.20	316.52	297.49
140.0	258.36	261.10	241.36
142.5	205.32	207.12	189.36
145.0	158.79	160.22	147.13
147.5	120.28	121.68	110.78
150.0	88.87	90.13	82.80
152.5	69.43	69.80	64.68
155.0	54.75	55.10	50.46
157.5	43.50	44.04	40.38
160.0	34.33	34.31	31.59
162.5	26.31	26.83	24.30
165.0	20.26	20.60	18.75
167.5	15.19	15.40	13.98
170.0	11.01	11.45	10.31
172.5	8.21	8.43	7.56
175.0	5.06	5.33	5.01
177.5	4.43	4.72	5.32
180.0	2.10	2.10	2.10

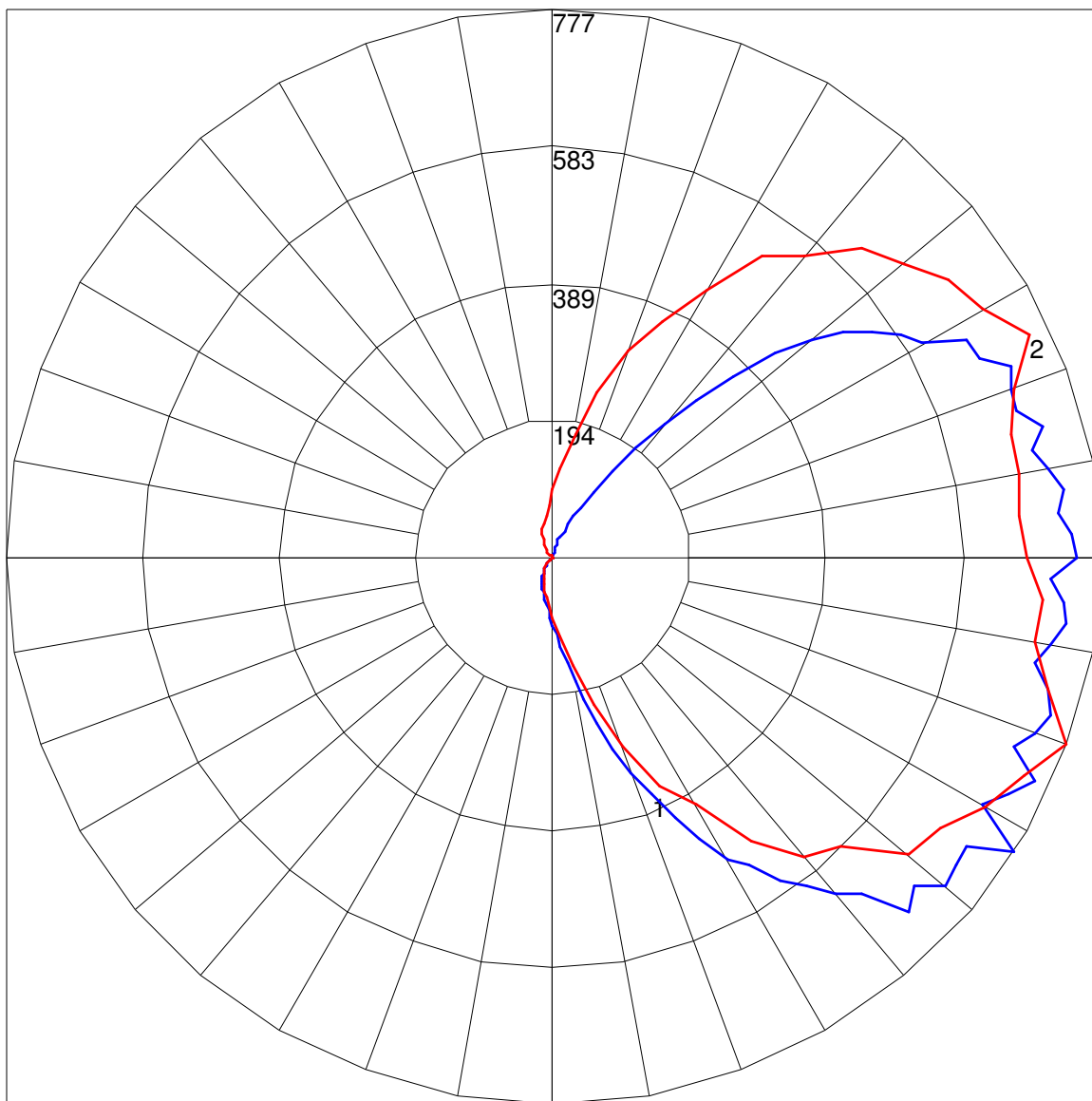
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

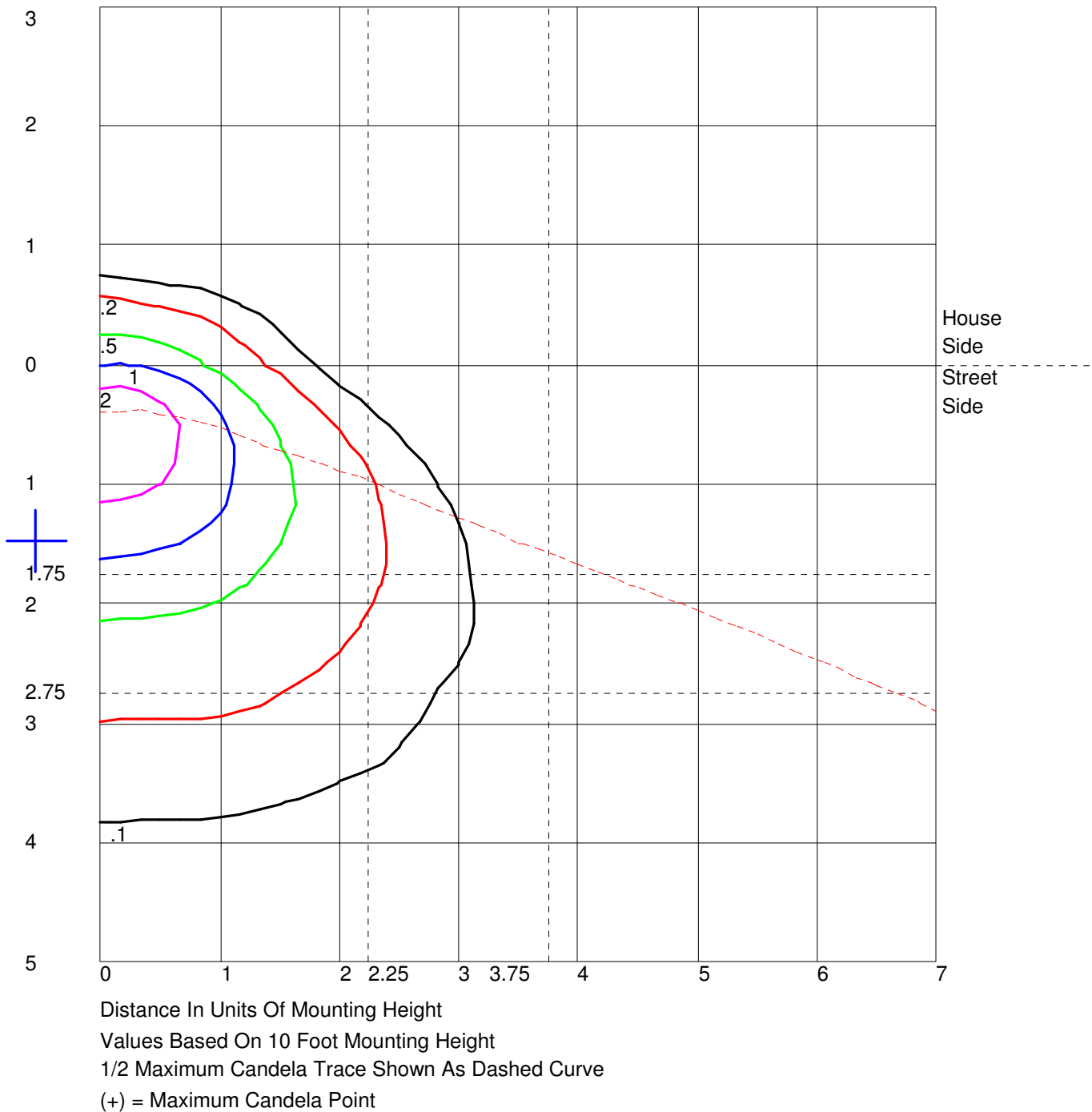
	Lumens	Percent Of Luminaire
Downward Street Side	1466.9	56.9
Downward House Side	87.3	3.4
Downward Total	1554.2	60.3
Upward Street Side	1002.5	38.9
Upward House Side	20.9	0.8
Upward Total	1023.4	39.7
Total Flux	2577.6	100.0

POLAR GRAPH

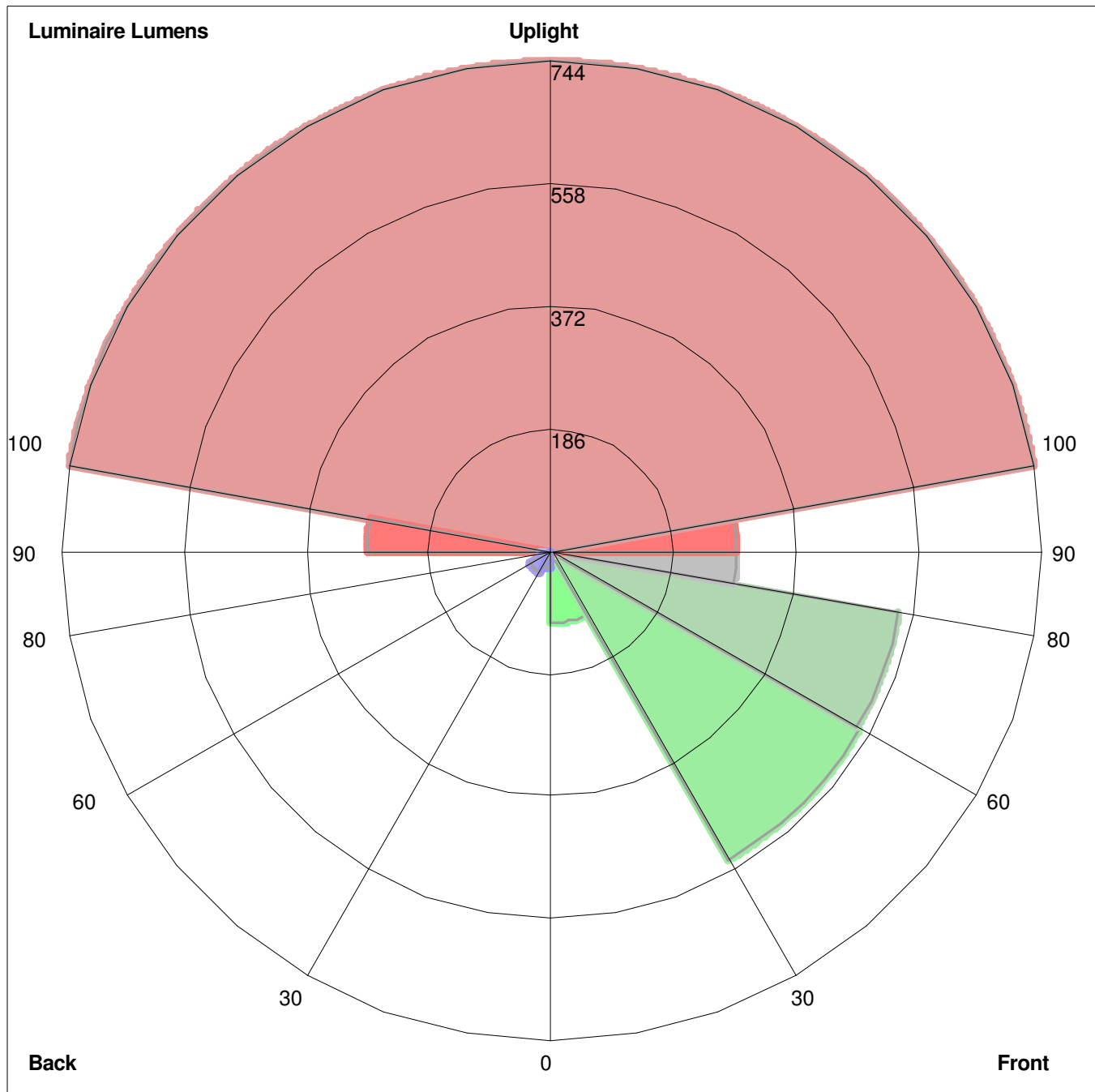


Maximum Candela = 777.1 Located At Horizontal Angle = 340, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (340 - 160) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=109.2, Medium=540.5, High=535.7, Very High=281.6
Back: Low=26.9, Medium=37.7, High=16.1, Very High=6.6
Uplight: Low=279.5, High=743.9

BUG Rating : B0-U4-G3