IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-MJ-25W-LED-XX-PND.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 193029
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2021-04-05 16:17:58
[ISSUEDATE] 2021-04-05 16:17:58
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] EPL-MJ-25W-LED-XX-PND-50K
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED MASON JAR FIXTURE
[MORE] PENDANT MOUNT, 5000K
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS



IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	3735.49 (1 lamp)
Total Lamp Lumens	3735.49
Luminaire Lumens	3735
Downward Total Efficiency	73 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	24.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.27
Maximum Candela	552.68
Maximum Candela Angle	247.5H 46.5V
Maximum Candela (<90 Degrees Vertical)	552.68
Maximum Candela Angle (<90 Degrees Vertical)	247.5H 46.5V
Maximum Candela At 90 Degrees Vertical	394.86 (10.6% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	431.86 (11.6% Lamp Lumens)
Cutoff Classification (deprecated)	Non-Cutoff

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	144.5	3.9	3.9
FM - Front-Medium (30-60)	560.6	15.0	15.0
FH - Front-High (60-80)	457.9	12.3	12.3
FVH - Front-Very High (80-90)	211.8	5.7	5.7
BL - Back-Low (0-30)	143.4	3.8	3.8
BM - Back-Medium (30-60)	543.4	14.5	14.6
BH - Back-High (60-80)	453.8	12.1	12.1
BVH - Back-Very High (80-90)	210.8	5.6	5.6
UL - Uplight-Low (90-100)	365.3	9.8	9.8
UH - Uplight-High (100-180)	643.2	17.2	17.2
Total	3734.7	99.9	100.0
BUG Rating	B1-U4-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	398.71	398.71	398.71	398.71	398.71	398.71	398.71	398.71	398.71	398.71
0.5	400.77	400.89	395.95	399.27	395.65	398.33	392.73	397.74	397.91	398.04
1.0	392.04	402.51	387.93	399.09	387.70	397.13	394.29	391.87	394.14	399.92
1.5	388.46	391.93	381.38	389.18	384.22	394.30	399.32	389.65	400.43	390.51
2.0	386.73	386.09	377.53	384.49	382.13	394.64	396.98	394.54	405.28	388.12
2.5	389.72	382.72	376.59	380.87	382.15	396.08	394.44	404.98	404.53	399.70
3.0	396.31	381.56	376.62	375.56	382.07	395.06	393.58	406.88	404.25	401.07
3.5	401.38	383.31	372.51	369.00	379.38	394.66	396.40	404.42	406.33	394.25
4.0	401.38	385.67	369.75	367.31	377.99	394.95	397.98	402.03	407.77	388.43
4.5	401.21	386.60	371.46	370.40	378.54	393.02	398.16	401.57	407.06	388.42
5.0	399.47	388.26	372.79	372.88	377.99	389.51	398.34	394.96	403.83	393.46
5.5	398.72	386.55	369.88	374.68	377.32	386.00	398.46	389.66	398.22	396.81
6.0	397.02	388.70	366.62	374.80	376.80	385.01	397.84	388.59	392.95	392.23
6.5	392.95	388.99	365.47	373.64	380.55	383.39	398.73	389.15	390.55	388.59
7.0	393.76	385.79	368.21	371.50	384.71	380.38	398.47	390.29	389.46	386.54
7.5	394.89	384.00	373.26	369.79	383.17	378.11	395.96	396.33	393.52	387.02
8.0	392.74	384.07	375.24	371.92	379.68	375.64	391.79	396.96	392.27	386.05
8.5	393.52	384.41	370.45	380.02	374.02	375.71	390.38	394.10	388.32	390.99
9.0	391.32	385.57	364.15	387.06	371.08	373.66	392.33	388.19	383.36	391.84
9.5	381.40	383.93	359.44	390.58	369.84	368.94	392.68	383.36	377.19	387.21
10.0	369.67	379.71	357.74	391.74	368.92	362.54	390.92	382.47	370.98	383.61
10.5	365.12	375.18	357.40	380.02	366.38	357.07	386.29	385.83	368.97	383.90
11.0	365.65	376.84	360.77	364.98	365.61	355.38	379.14	386.01	376.79	389.52
11.5	358.95	369.99	365.76	352.50	364.07	357.69	376.85	378.88	377.31	389.19
12.0	355.42	363.29	363.58	349.04	359.13	361.03	373.79	376.14	382.00	384.50
12.5	354.55	366.87	359.44	350.66	354.82	361.83	371.38	372.71	383.52	381.87
13.0	351.34	369.32	355.20	350.41	353.53	358.37	372.47	368.32	380.64	382.24
13.5	345.82	364.33	351.56	345.47	351.79	352.05	373.18	370.58	377.01	381.09
14.0	342.93	354.40	354.80	340.39	345.13	349.10	365.90	371.56	375.87	373.42
14.5	337.51	350.89	354.28	338.13	337.41	350.10	361.47	370.67	374.79	367.05
15.0	332.47	352.63	352.65	337.55	331.70	350.67	361.30	369.49	372.84	361.74
15.5	331.52	355.67	352.91	334.56	331.16	350.21	361.63	366.06	369.81	359.38
16.0	329.08	357.95	353.91	333.67	331.64	354.68	355.94	360.04	366.40	358.96
16.5	323.90	354.39	347.33	333.20	333.28	363.62	349.56	355.84	361.00	356.40
17.0	316.28	345.49	338.96	328.77	330.64	372.23	343.45	352.66	356.27	351.47
17.5	310.43	334.24	333.86	318.74	325.17	371.40	341.05	347.76	354.78	347.39
18.0	308.38	331.09	332.31	311.73	320.54	364.57	337.23	341.34	353.03	340.55
18.5	308.08	330.46	326.50	309.93	318.74	356.51	332.55	333.50	350.42	332.05
19.0	310.81	332.15	324.80	310.20	319.41	352.97	328.48	328.81	346.84	324.18
19.5	319.12	341.18	327.24	311.04	321.71	353.26	322.68	323.60	341.49	319.16
20.0	320.21	345.03	319.35	309.74	324.18	356.17	316.93	317.81	337.85	315.49
20.5	306.16	329.96	308.72	306.62	322.31	354.10	311.23	312.49	334.62	309.76
21.0	296.16	318.81	311.30	303.44	321.12	344.11	306.89	306.57	331.79	307.27
21.5	301.26	319.92	309.79	306.21	317.26	330.87	304.51	301.99	329.32	310.24
22.0	312.42	324.47	305.89	309.62	314.74	323.52	304.81	299.16	325.22	318.31
22.5	314.77	325.54	304.21	309.37	315.04	318.24	308.38	299.01	321.79	323.43
23.0	305.15	316.22	307.91	302.13	315.91	314.18	309.88	301.66	317.95	318.22
23.5	297.23	310.52	309.19	301.21	315.38	312.72	305.42	305.35	318.87	312.08
24.0	300.31	314.34	310.10	302.39	316.73	310.98	299.11	309.23	317.86	313.25
24.5	306.66	321.32	312.90	302.55	319.44	310.15	295.61	306.08	316.02	317.96
25.0	311.70	328.21	313.19	301.72	319.92	312.64	298.00	296.77	315.41	322.02
25.5	313.51	326.23	318.29	296.59	319.22	315.40	303.44	292.26	317.82	322.42
26.0	314.79	321.17	322.44	295.06	315.19	319.54	305.47	292.39	322.56	317.11

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CANDELA TABULATION - (Cont.)

26.5	324.53	321.67	324.26	299.75	309.76	325.95	306.20	296.54	323.05	310.00
27.0	343.76	328.14	328.27	306.32	308.29	325.58	306.35	300.16	324.19	310.40
27.5	373.65	337.60	331.87	313.22	312.56	327.27	306.03	299.87	323.67	317.83
28.0	408.82	346.96	338.73	321.67	320.65	325.77	307.79	300.39	321.54	329.90
28.5	437.96	359.07	349.14	330.38	329.18	326.05	314.89	302.08	320.59	343.59
29.0	444.71	366.23	362.26	341.51	337.25	328.90	323.98	305.69	323.19	356.34
29.5	437.81	373.70	377.81	354.41	344.39	334.83	332.55	311.51	331.37	363.43
30.0	410.89	388.24	393.34	371.25	356.71	337.76	342.75	322.42	340.61	374.02
30.5	389.50	402.69	405.95	394.26	373.86	341.17	352.63	335.27	350.16	393.74
31.0	390.82	416.88	414.61	411.79	394.01	343.82	365.30	346.11	357.32	413.36
31.5	403.27	430.19	422.07	419.45	412.92	347.39	378.41	358.36	364.34	433.09
32.0	420.05	436.16	431.87	409.50	419.76	353.79	393.41	371.61	375.97	442.51
32.5	451.90	440.77	441.92	392.99	414.60	363.88	407.24	387.51	387.32	442.24
33.0	469.34	442.67	451.37	368.05	402.59	380.55	407.58	401.15	399.42	431.11
33.5	452.51	440.57	458.39	359.36	388.83	393.26	395.01	408.50	410.25	415.15
34.0	423.64	439.90	474.99	365.70	377.64	403.23	379.88	405.52	422.96	398.45
34.5	405.57	440.45	489.44	379.83	376.30	412.50	367.79	390.11	434.14	392.81
35.0	406.35	445.44	487.02	404.70	386.13	417.93	366.36	368.48	438.04	403.72
35.5	413.54	457.46	478.16	425.87	404.88	423.39	373.73	359.43	440.67	431.73
36.0	426.80	469.75	487.52	439.80	429.16	431.00	389.36	358.11	450.18	458.38
36.5	441.33	472.39	498.15	460.67	445.85	434.77	413.06	368.08	459.86	472.04
37.0	455.09	469.87	501.06	472.56	453.43	438.17	434.70	391.44	467.45	485.57
37.5	469.98	474.84	502.90	463.64	466.05	445.40	456.44	424.27	475.82	498.53
38.0	485.37	485.71	503.11	440.51	471.57	453.44	470.71	444.35	490.58	504.05
38.5	492.44	492.89	509.05	417.92	464.60	459.81	468.88	462.91	496.99	495.52
39.0	486.79	494.67	513.23	401.76	452.41	460.99	449.18	476.74	484.46	480.59
39.5	474.87	500.83	516.79	394.61	441.05	455.45	422.84	470.63	468.24	465.13
40.0	466.94	513.91	512.79	400.18	432.83	452.37	402.90	448.59	464.89	457.31
40.5	464.69	516.65	503.29	413.65	431.33	449.85	396.85	424.63	465.30	457.19
41.0	470.70	506.84	495.54	428.01	439.93	447.78	398.50	406.88	463.97	468.95
41.5	479.14	501.03	495.56	442.03	449.92	452.55	405.94	402.65	469.49	482.86
42.0	485.35	502.23	496.20	453.10	455.39	460.57	416.83	406.91	477.97	491.01
42.5	486.93	505.88	495.26	464.47	456.25	470.06	431.00	415.41	482.91	493.88
43.0	487.40	507.89	494.83	475.35	459.81	482.60	445.73	423.32	486.85	501.80
43.5	490.17	507.69	497.17	482.37	470.70	484.75	464.32	432.61	495.62	513.64
44.0	496.62	508.26	499.20	484.99	485.45	480.58	479.41	449.16	503.28	522.37
44.5	506.01	508.81	500.02	482.45	493.39	474.27	485.39	466.46	503.40	522.40
45.0	513.48	507.51	502.06	478.65	494.16	471.44	483.45	478.40	498.60	514.52
45.5	518.46	505.50	506.54	475.83	492.18	471.05	481.49	479.62	492.06	506.15
46.0	522.51	504.78	509.68	474.86	490.09	472.74	482.05	477.59	488.70	505.78
46.5	525.03	506.18	511.24	473.09	489.77	473.85	479.74	479.37	486.96	509.27
47.0	526.70	506.13	510.62	469.63	489.25	473.58	471.73	486.98	486.65	511.93
47.5	524.63	503.39	509.06	464.86	486.98	475.25	455.90	489.78	489.47	508.41
48.0	518.26	501.77	507.70	461.93	482.29	479.74	443.30	481.52	496.08	503.76
48.5	511.31	502.42	502.06	463.12	478.68	484.62	437.81	467.46	501.10	503.47
49.0	507.98	504.77	494.81	466.30	478.04	487.45	440.75	457.39	506.18	506.85
49.5	505.93	505.55	489.06	470.08	476.47	486.81	447.54	456.91	508.58	510.24
50.0	504.46	505.61	485.03	473.96	473.86	485.09	455.52	459.76	508.16	510.41
50.5	503.27	505.62	482.80	478.14	470.46	482.85	461.01	459.46	503.88	510.61
51.0	504.59	502.79	482.06	485.00	469.00	481.10	466.01	459.68	499.06	508.05
51.5	507.83	499.25	481.80	493.15	470.55	478.28	470.80	462.13	493.42	506.69
52.0	511.89	495.32	482.40	498.63	474.46	476.12	475.49	467.93	485.86	506.49
52.5	512.96	493.27	483.60	502.80	479.88	472.15	479.56	474.20	481.91	508.22
53.0	511.46	492.53	486.00	503.29	486.18	468.82	480.07	477.30	479.63	510.89
53.5	508.91	492.13	487.75	499.65	492.35	467.25	480.16	478.32	477.22	513.72
54.0	507.01	491.04	488.78	495.15	495.72	468.26	480.88	479.78	475.60	515.62

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CANDELA TABULATION - (Cont.)

54.5	505.88	488.84	489.36	491.62	495.13	471.26	481.54	482.13	475.99	517.19
55.0	504.96	486.65	488.34	487.81	492.72	472.97	482.22	484.46	477.02	517.83
55.5	502.34	484.78	486.00	482.92	490.35	475.17	480.01	486.95	478.33	519.03
56.0	498.01	483.14	484.11	477.30	486.69	476.83	474.03	489.09	479.84	517.68
56.5	494.44	481.25	481.64	471.95	479.95	477.97	465.15	489.68	482.45	513.37
57.0	491.45	479.00	477.81	469.20	472.46	478.86	457.04	486.66	485.26	506.10
57.5	489.74	476.17	474.22	467.59	464.25	478.96	451.48	480.73	487.09	498.92
58.0	488.40	473.52	471.50	465.74	459.43	477.86	448.97	473.67	486.92	492.72
58.5	487.48	470.85	469.82	463.01	456.68	476.00	446.80	465.45	484.97	487.21
59.0	486.53	469.00	468.94	460.54	454.85	474.11	444.50	455.91	481.91	483.09
59.5	485.29	467.64	468.21	459.85	453.86	471.24	443.25	448.56	477.19	479.31
60.0	485.01	466.90	468.10	460.88	453.78	468.34	442.23	444.84	472.62	476.93
60.5	485.73	465.50	468.74	462.97	455.03	463.83	440.71	443.90	468.19	475.61
61.0	486.41	464.48	469.56	465.75	455.54	458.39	440.06	443.76	464.66	475.08
61.5	486.18	463.54	470.33	468.20	455.43	454.27	440.81	443.72	461.37	475.23
62.0	485.09	462.86	470.69	469.75	455.99	450.67	442.67	443.92	458.29	476.07
62.5	483.51	462.30	471.07	470.53	456.48	449.30	445.33	445.69	456.09	477.37
63.0	481.24	462.14	471.40	470.38	455.74	449.07	447.28	448.19	454.76	478.42
63.5	478.48	462.14	471.10	468.90	454.10	450.39	448.59	450.61	454.34	478.82
64.0	475.90	462.23	470.82	465.77	451.86	452.88	449.56	452.34	454.89	479.10
64.5	473.10	462.09	469.93	461.99	449.31	456.17	449.09	453.27	456.20	478.37
65.0	470.55	462.07	468.94	457.56	446.68	459.05	446.14	454.48	457.46	476.87
65.5	467.59	461.83	467.32	453.73	444.91	461.47	441.98	454.14	459.00	474.32
66.0	464.40	461.15	465.32	450.53	443.81	463.98	437.53	451.78	460.37	471.40
66.5	461.75	459.75	462.77	447.51	441.92	465.08	432.59	446.74	461.54	468.05
67.0	458.63	458.27	460.14	445.26	440.34	464.49	429.27	441.40	461.76	463.86
67.5	455.47	456.69	458.26	443.45	439.36	462.41	427.25	435.96	461.15	459.90
68.0	452.79	455.38	456.59	442.60	437.88	459.10	425.68	432.09	459.70	455.80
68.5	450.48	453.87	455.26	442.31	435.05	455.21	423.64	430.16	458.41	451.80
69.0	449.09	451.66	454.07	442.04	430.99	451.84	421.49	429.05	457.69	448.43
69.5	447.92	449.58	452.63	441.33	427.58	448.61	419.98	428.06	456.86	444.49
70.0	446.69	447.28	451.53	440.21	424.38	446.44	418.87	426.74	455.41	441.54
70.5	445.03	445.23	451.02	438.73	421.26	444.35	417.87	425.59	453.20	439.47
71.0	442.65	443.92	450.42	437.74	419.30	442.97	416.63	423.99	451.33	438.18
71.5	440.05	442.77	449.19	436.24	418.61	442.54	415.75	421.46	449.94	437.36
72.0	436.99	441.84	447.28	435.01	418.60	442.43	415.67	419.08	448.49	437.03
72.5	433.85	440.47	445.76	432.80	418.42	443.18	416.38	417.25	447.73	437.17
73.0	430.83	439.07	444.76	430.20	417.09	444.54	416.51	415.95	447.09	437.39
73.5	427.57	437.59	443.35	427.62	415.33	445.58	415.25	414.37	446.44	437.50
74.0	424.90	436.52	440.94	424.54	414.00	445.99	412.30	412.43	445.72	436.29
74.5	422.02	435.36	439.13	421.11	412.81	445.60	409.25	410.70	444.98	433.82
75.0	419.75	433.82	438.27	417.88	411.29	444.76	405.76	408.08	444.00	430.47
75.5	417.76	432.68	437.29	415.83	409.87	443.12	402.59	405.06	442.54	426.76
76.0	415.59	431.71	436.69	414.35	409.08	440.30	399.36	401.80	441.24	423.31
76.5	413.59	430.95	436.83	412.80	406.52	436.74	395.36	398.63	440.30	419.61
77.0	411.13	429.83	436.51	411.51	402.60	432.96	390.94	396.79	439.42	415.56
77.5	408.56	427.81	435.56	409.27	400.22	430.54	386.44	395.29	437.36	411.77
78.0	406.03	426.37	434.51	406.27	399.55	428.96	383.58	393.55	435.01	408.20
78.5	403.21	425.49	433.21	403.55	399.47	428.03	381.78	391.38	433.60	406.62
79.0	400.83	424.87	432.35	400.79	399.48	427.30	380.88	388.66	433.00	406.38
79.5	398.46	423.83	431.12	398.54	399.05	426.18	380.77	386.45	432.20	406.10
80.0	396.14	422.32	429.16	396.17	398.12	425.76	379.52	384.56	431.68	405.11
80.5	394.21	420.65	426.48	393.40	397.24	425.52	378.49	383.29	430.59	404.30
81.0	392.01	418.67	424.21	391.21	396.79	424.79	378.49	381.51	428.68	404.58
81.5	389.58	416.55	421.54	388.69	396.21	424.44	378.80	378.64	426.72	404.20
82.0	386.97	413.63	418.31	386.44	395.23	423.74	378.47	376.28	424.55	402.71

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CANDELA TABULATION - (Cont.)

82.5	384.44	410.19	414.66	383.84	391.81	422.58	376.36	374.74	422.29	400.46
83.0	381.79	407.16	411.01	380.63	388.17	420.17	372.77	373.65	418.64	396.44
83.5	378.41	404.46	408.11	377.44	384.77	415.65	368.30	372.33	415.27	391.52
84.0	375.18	401.90	405.52	373.88	381.51	411.13	362.85	369.90	411.38	386.62
84.5	371.78	399.40	403.43	370.60	379.31	406.03	357.75	367.34	406.92	381.60
85.0	368.11	397.43	401.97	367.27	377.17	402.35	353.21	364.15	403.53	377.54
85.5	365.10	396.07	400.55	364.13	375.73	399.75	349.04	360.79	400.10	373.94
86.0	362.26	394.76	399.54	361.54	374.50	398.09	346.09	357.05	397.39	371.59
86.5	360.23	393.71	398.52	359.62	373.60	396.43	343.62	353.12	395.38	369.75
87.0	358.04	392.87	397.08	357.74	372.88	395.27	342.26	350.27	394.04	368.38
87.5	356.34	391.89	395.68	356.23	372.37	395.00	341.61	347.73	393.10	368.06
88.0	354.71	390.83	393.70	354.49	371.50	394.90	341.20	346.02	392.44	367.79
88.5	352.52	389.40	391.55	352.65	370.13	394.79	341.31	344.78	392.00	367.54
89.0	350.21	387.60	389.16	350.49	368.41	394.39	341.61	344.09	391.26	367.35
89.5	346.82	385.81	386.16	347.55	366.34	393.31	341.07	343.97	390.35	367.02
90.0	343.08	383.41	383.22	344.12	363.37	391.51	338.90	343.60	389.19	365.61
90.5	339.14	380.78	380.02	339.67	360.51	388.65	334.81	342.68	387.15	362.55
91.0	334.79	377.54	376.58	335.43	357.35	384.26	330.29	341.17	384.32	358.89
91.5	330.94	374.01	373.38	331.38	354.12	379.96	325.15	338.56	380.59	354.90
92.0	327.31	370.79	370.00	327.12	351.39	375.26	320.92	335.38	376.02	350.63
92.5	323.42	367.38	367.04	323.59	348.41	371.45	316.98	331.45	371.76	346.90
93.0	320.06	364.29	364.10	320.17	345.79	368.34	313.90	327.71	367.88	343.41
93.5	316.02	361.61	361.79	317.01	343.18	365.48	311.07	324.32	364.09	340.80
94.0	312.50	358.67	359.72	314.11	340.61	362.99	308.05	321.05	361.09	338.47
94.5	308.99	356.27	357.22	310.71	338.34	360.26	305.46	318.44	357.73	336.04
95.0	305.17	353.99	354.87	307.76	335.64	357.64	302.88	315.92	354.90	334.23
95.5	301.62	352.09	352.29	304.21	333.43	355.23	300.69	313.77	352.40	332.19
96.0	297.73	349.44	349.66	301.09	331.21	352.60	298.69	311.49	350.05	330.09
96.5	294.09	346.70	347.29	297.77	329.06	350.15	296.66	309.20	347.79	327.99
97.0	291.05	343.82	344.88	294.76	326.99	347.61	294.94	306.95	345.47	325.59
97.5	287.61	340.60	342.28	292.04	324.97	345.45	293.09	304.14	343.53	323.50
98.0	284.16	337.24	339.28	288.79	323.04	343.40	291.33	301.70	341.59	321.27
98.5	280.19	333.81	336.78	286.14	320.94	341.33	289.55	299.12	339.20	319.03
99.0	276.78	330.68	333.97	283.07	318.69	339.61	287.36	296.41	336.97	316.73
99.5	273.49	327.43	331.06	279.68	316.38	337.81	285.04	293.88	334.38	314.28
100.0	269.41	324.02	328.45	276.54	313.88	336.17	282.18	290.85	332.16	312.17
100.5	265.57	321.47	325.48	272.97	311.51	334.06	279.40	288.24	329.54	309.47
101.0	261.46	318.50	322.90	269.69	308.73	331.41	276.45	285.72	326.24	306.84
101.5	257.90	315.60	320.17	266.29	305.70	328.77	273.15	282.89	323.41	304.21
102.0	254.80	313.01	316.66	262.32	302.99	325.21	270.23	280.43	320.19	301.12
102.5	251.49	310.55	313.07	258.59	300.00	321.93	267.38	277.62	317.24	298.16
103.0	248.53	308.30	309.47	254.51	297.15	318.69	265.13	275.09	314.61	294.61
103.5	245.15	305.27	305.63	251.14	294.44	315.38	262.99	272.39	311.54	291.30
104.0	242.30	302.51	301.87	247.83	291.41	312.65	260.73	269.22	308.47	287.96
104.5	239.14	299.62	298.21	244.39	288.86	309.63	258.46	266.28	305.23	284.39
105.0	235.61	296.46	295.42	241.04	285.86	307.06	255.77	263.12	302.17	281.69
105.5	232.17	293.78	292.30	237.42	282.95	304.21	253.17	260.07	299.39	278.97
106.0	228.00	290.77	289.25	234.31	280.16	301.18	250.53	257.15	296.60	276.19
106.5	224.88	287.89	286.46	231.25	277.00	298.44	247.50	253.91	293.77	273.40
107.0	221.64	285.39	283.08	227.98	274.28	295.33	244.89	251.00	290.48	270.37
107.5	217.99	282.54	280.08	225.19	270.89	292.54	242.09	248.02	287.39	267.49
108.0	215.15	280.02	276.87	222.14	267.72	289.58	238.78	245.30	284.39	264.14
108.5	212.12	276.81	273.98	219.46	264.82	286.11	235.69	242.52	280.84	260.77
109.0	209.38	273.58	270.91	216.75	261.43	282.91	232.04	239.11	277.47	257.35
109.5	206.50	270.96	267.52	213.73	258.25	278.70	228.60	235.98	273.96	253.15
110.0	203.40	268.00	264.28	211.11	254.88	275.11	225.11	232.10	270.84	249.46

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CANDELA TABULATION - (Cont.)

110.5	201.12	265.16	260.64	208.06	251.71	272.04	221.21	228.65	267.65	245.71
111.0	198.69	262.18	257.47	205.38	248.31	268.60	217.97	225.23	264.14	242.54
111.5	196.22	259.47	254.10	202.56	244.51	265.63	214.34	221.58	261.03	239.35
112.0	193.81	256.75	250.26	199.40	241.07	262.65	211.42	218.29	257.57	235.57
112.5	191.18	253.28	246.81	196.79	237.40	259.24	208.13	214.66	254.69	232.04
113.0	188.49	250.26	243.20	193.80	234.16	256.10	205.38	211.34	251.73	228.30
113.5	185.87	246.64	239.73	191.13	230.97	252.70	202.71	208.29	248.34	224.65
114.0	183.34	242.94	236.47	188.30	227.49	249.58	199.76	204.82	245.33	220.97
114.5	180.84	239.38	232.45	185.49	224.46	246.21	197.03	201.79	241.67	216.92
115.0	177.99	235.03	228.80	182.74	220.88	243.08	194.37	198.68	238.28	213.42
115.5	175.46	230.96	224.26	180.04	217.38	239.70	191.43	196.07	234.88	209.55
116.0	172.66	226.72	220.41	177.61	213.84	236.05	188.73	193.46	231.18	206.06
116.5	169.82	222.39	216.25	175.36	210.01	232.78	185.65	190.62	227.85	202.47
117.0	167.29	217.97	211.85	172.65	206.24	229.09	182.72	187.78	223.98	198.28
117.5	164.67	213.44	207.39	170.25	201.80	225.39	179.75	184.41	220.37	194.40
118.0	161.93	209.40	203.02	167.24	198.20	221.82	176.59	181.33	216.71	190.26
118.5	158.90	204.45	198.10	164.63	194.54	217.58	173.64	178.29	212.73	186.56
119.0	156.39	200.44	193.70	162.03	190.68	213.77	170.36	174.87	209.21	183.09
119.5	153.55	196.16	188.80	159.14	187.04	209.54	167.38	171.78	205.19	179.47
120.0	150.80	190.67	184.56	156.45	182.85	205.89	164.50	168.35	201.14	176.34
120.5	148.10	186.01	180.40	154.14	179.16	202.19	161.45	165.39	196.54	172.63
121.0	145.27	181.00	175.79	151.85	175.42	197.91	158.67	162.50	191.30	169.06
121.5	142.53	176.56	171.69	149.71	171.22	193.87	155.62	159.27	186.78	165.26
122.0	139.72	172.19	167.00	147.52	167.61	189.13	152.69	156.63	181.94	160.74
122.5	136.74	167.42	162.76	145.52	163.64	184.71	149.72	153.73	177.84	156.53
123.0	133.77	163.07	158.37	143.17	159.78	179.95	146.24	150.87	173.92	151.67
123.5	130.98	158.15	153.09	140.43	155.30	174.96	143.03	148.04	169.67	147.28
124.0	128.05	152.11	147.79	137.85	150.37	170.14	139.32	145.01	165.68	143.23
124.5	125.24	146.47	141.21	134.75	146.30	165.53	135.93	142.09	160.24	138.64
125.0	121.78	141.11	134.07	132.13	142.37	160.49	132.41	138.34	154.19	134.45
125.5	118.61	134.76	126.73	129.51	137.91	155.86	128.30	134.78	148.02	130.01
126.0	115.32	128.78	119.16	126.73	132.99	149.40	124.89	131.55	141.49	125.78
126.5	110.24	121.35	112.76	124.30	125.01	142.65	121.51	128.14	135.75	120.12
127.0	105.39	115.66	105.90	121.72	117.83	135.24	118.82	125.15	129.09	111.54
127.5	100.59	108.36	98.93	118.90	110.78	128.28	115.97	122.25	122.31	104.55
128.0	96.25	101.29	91.73	115.07	104.93	121.68	110.70	119.42	115.10	98.44
128.5	91.27	94.34	84.36	110.33	99.60	113.43	104.26	114.29	106.76	93.50
129.0	85.05	86.86	78.49	105.33	92.76	106.02	96.42	106.27	99.79	86.71
129.5	80.00	80.61	72.66	98.94	86.69	99.51	90.38	99.16	91.97	79.36
130.0	75.01	73.17	65.48	93.85	81.25	92.52	85.79	93.11	84.12	74.22
130.5	69.35	66.59	59.71	89.22	75.74	86.16	80.19	88.74	75.75	69.02
131.0	62.66	60.94	55.21	83.68	70.10	78.55	73.73	83.47	69.28	63.32
131.5	57.88	55.60	50.71	79.05	63.35	72.37	67.24	76.99	64.43	57.57
132.0	54.69	50.56	45.08	72.78	58.02	67.11	63.13	71.64	57.81	53.86
132.5	46.51	44.37	39.62	67.09	54.84	61.24	59.67	66.38	51.53	48.76
133.0	41.53	38.39	35.79	62.93	47.31	55.89	55.50	61.97	45.78	42.31
133.5	37.67	36.68	31.85	57.69	41.97	49.95	46.62	56.31	38.75	37.13
134.0	33.05	32.85	27.75	51.36	37.93	44.89	41.69	49.47	37.41	33.55
134.5	26.83	28.90	24.06	44.63	35.08	41.32	38.91	43.88	32.58	29.37
135.0	23.92	25.01	20.31	37.40	31.12	36.97	34.68	38.16	27.63	25.33
135.5	21.87	22.11	17.50	37.53	26.11	32.35	28.87	35.67	23.07	21.91
136.0	17.95	19.30	14.62	31.83	22.77	28.02	23.97	30.38	20.02	18.91
136.5	16.45	16.14	12.07	28.24	19.45	24.51	19.32	24.93	17.48	15.21
137.0	13.54	13.35	10.46	25.59	16.19	20.48	17.72	20.67	14.75	12.00
137.5	10.74	10.77	7.92	21.94	13.62	17.56	15.41	17.70	11.84	9.54
138.0	8.58	8.03	5.52	19.58	10.71	14.78	11.60	15.58	9.63	7.36

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CANDELA TABULATION - (Cont.)

138.5	5.94	6.12	4.25	16.83	8.35	11.38	10.27	12.99	7.69	5.50
139.0	4.79	4.45	2.98	13.53	5.82	9.50	7.27	10.85	6.22	4.10
139.5	2.39	3.03	2.48	11.45	4.22	6.97	5.79	8.66	4.71	2.59
140.0	1.99	2.74	2.22	8.63	2.43	5.01	4.37	6.93	4.07	2.10
140.5	1.83	2.55	2.07	6.57	2.08	3.91	2.41	4.90	3.64	1.85
141.0	1.68	2.31	1.85	3.13	1.98	3.44	2.19	3.49	3.37	1.72
141.5	1.50	2.18	1.72	2.83	1.88	3.19	2.03	3.14	3.02	1.53
142.0	1.39	2.00	1.57	2.63	1.79	2.96	1.81	2.80	2.74	1.37
142.5	1.30	1.86	1.40	2.44	1.65	2.76	1.72	2.50	2.61	1.30
143.0	1.18	1.77	1.33	2.21	1.53	2.63	1.56	2.26	2.38	1.21
143.5	1.06	1.65	1.19	2.03	1.33	2.45	1.50	2.09	2.09	1.15
144.0	1.05	1.57	1.12	1.84	1.17	2.29	1.34	1.97	1.92	1.08
144.5	0.90	1.46	0.94	1.72	1.13	2.20	1.25	1.83	1.80	1.01
145.0	0.89	1.33	0.86	1.58	1.04	2.04	1.17	1.75	1.71	0.99
145.5	0.81	1.24	0.72	1.55	0.93	1.77	1.07	1.65	1.51	0.92
146.0	0.81	1.20	0.70	1.47	0.86	1.63	1.00	1.57	1.46	0.88
146.5	0.65	1.14	0.73	1.39	0.87	1.56	0.89	1.56	1.42	0.80
147.0	0.58	1.02	0.57	1.29	0.78	1.42	0.85	1.39	1.35	0.76
147.5	0.47	1.02	0.58	1.16	0.75	1.30	0.83	1.32	1.29	0.69
148.0	0.42	0.95	0.59	1.09	0.65	1.23	0.76	1.31	1.16	0.66
148.5	0.42	0.90	0.46	0.99	0.63	1.19	0.74	1.25	1.17	0.58
149.0	0.40	0.87	0.45	0.93	0.54	1.12	0.63	1.13	1.10	0.58
149.5	0.37	0.78	0.41	0.84	0.53	1.04	0.59	1.12	1.08	0.52
150.0	0.32	0.72	0.39	0.85	0.48	0.97	0.51	0.98	0.98	0.46
150.5	0.34	0.73	0.40	0.78	0.49	0.96	0.46	0.92	0.90	0.43
151.0	0.28	0.69	0.35	0.75	0.42	0.86	0.45	0.83	0.88	0.40
151.5	0.27	0.66	0.33	0.69	0.42	0.84	0.40	0.77	0.84	0.38
152.0	0.27	0.58	0.29	0.66	0.33	0.79	0.36	0.70	0.75	0.30
152.5	0.27	0.56	0.28	0.64	0.30	0.75	0.35	0.71	0.70	0.29
153.0	0.23	0.50	0.25	0.56	0.29	0.72	0.30	0.67	0.68	0.28
153.5	0.26	0.51	0.28	0.59	0.26	0.66	0.27	0.59	0.66	0.31
154.0	0.24	0.47	0.26	0.54	0.29	0.57	0.31	0.58	0.58	0.23
154.5	0.24	0.50	0.21	0.53	0.25	0.61	0.27	0.57	0.56	0.26
155.0	0.19	0.42	0.24	0.46	0.24	0.56	0.26	0.50	0.48	0.23
155.5	0.21	0.47	0.22	0.52	0.24	0.52	0.16	0.54	0.47	0.23
156.0	0.23	0.40	0.16	0.42	0.19	0.46	0.26	0.49	0.46	0.21
156.5	0.24	0.40	0.19	0.45	0.20	0.44	0.17	0.51	0.45	0.20
157.0	0.24	0.39	0.17	0.47	0.22	0.46	0.20	0.45	0.42	0.21
157.5	0.21	0.38	0.20	0.45	0.19	0.47	0.24	0.45	0.42	0.21
158.0	0.19	0.37	0.20	0.42	0.19	0.45	0.21	0.42	0.41	0.21
158.5	0.20	0.32	0.16	0.43	0.22	0.42	0.14	0.39	0.40	0.19
159.0	0.22	0.35	0.19	0.37	0.22	0.43	0.16	0.38	0.37	0.21
159.5	0.22	0.36	0.19	0.40	0.24	0.46	0.22	0.41	0.39	0.19
160.0	0.22	0.29	0.20	0.40	0.13	0.39	0.21	0.37	0.36	0.17
160.5	0.21	0.36	0.17	0.34	0.21	0.39	0.20	0.38	0.37	0.21
161.0	0.26	0.36	0.17	0.39	0.21	0.39	0.19	0.37	0.37	0.19
161.5	0.22	0.35	0.17	0.36	0.16	0.36	0.19	0.40	0.36	0.15
162.0	0.21	0.34	0.24	0.39	0.19	0.34	0.19	0.35	0.36	0.20
162.5	0.17	0.36	0.12	0.32	0.19	0.37	0.19	0.34	0.37	0.17
163.0	0.19	0.30	0.19	0.34	0.17	0.35	0.20	0.36	0.36	0.17
163.5	0.20	0.31	0.17	0.34	0.13	0.34	0.16	0.34	0.29	0.13
164.0	0.20	0.35	0.19	0.31	0.20	0.28	0.20	0.31	0.33	0.14
164.5	0.19	0.33	0.13	0.32	0.19	0.32	0.16	0.33	0.31	0.17
165.0	0.20	0.34	0.22	0.34	0.19	0.30	0.17	0.32	0.36	0.17
165.5	0.23	0.30	0.16	0.35	0.17	0.35	0.14	0.32	0.35	0.15
166.0	0.19	0.29	0.19	0.30	0.15	0.33	0.16	0.33	0.30	0.15

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CANDELA TABULATION - (Cont.)

166.5	0.23	0.30	0.14	0.28	0.12	0.35	0.15	0.32	0.33	0.21
167.0	0.14	0.29	0.15	0.28	0.15	0.31	0.21	0.33	0.31	0.15
167.5	0.23	0.28	0.17	0.33	0.20	0.31	0.17	0.32	0.30	0.14
168.0	0.15	0.25	0.10	0.31	0.16	0.29	0.14	0.33	0.34	0.16
168.5	0.16	0.26	0.16	0.29	0.10	0.29	0.14	0.29	0.29	0.13
169.0	0.17	0.26	0.19	0.29	0.19	0.28	0.14	0.29	0.32	0.15
169.5	0.20	0.26	0.17	0.27	0.14	0.30	0.17	0.24	0.28	0.14
170.0	0.19	0.25	0.13	0.25	0.16	0.29	0.19	0.24	0.24	0.17
170.5	0.15	0.26	0.14	0.23	0.12	0.28	0.15	0.25	0.21	0.16
171.0	0.16	0.26	0.15	0.23	0.09	0.26	0.12	0.20	0.26	0.12
171.5	0.16	0.20	0.15	0.27	0.16	0.25	0.20	0.24	0.20	0.19
172.0	0.17	0.22	0.14	0.25	0.11	0.27	0.12	0.25	0.23	0.14
172.5	0.19	0.22	0.14	0.26	0.15	0.25	0.16	0.22	0.27	0.12
173.0	0.21	0.22	0.13	0.14	0.14	0.23	0.11	0.16	0.19	0.12
173.5	0.16	0.21	0.15	0.22	0.16	0.24	0.17	0.21	0.28	0.15
174.0	0.15	0.20	0.10	0.22	0.10	0.21	0.11	0.20	0.19	0.13
174.5	0.14	0.17	0.12	0.20	0.15	0.21	0.10	0.22	0.21	0.19
175.0	0.19	0.16	0.13	0.23	0.10	0.21	0.13	0.19	0.19	0.14
175.5	0.13	0.22	0.12	0.20	0.13	0.20	0.15	0.24	0.19	0.12
176.0	0.16	0.17	0.13	0.19	0.14	0.22	0.12	0.21	0.15	0.13
176.5	0.14	0.20	0.10	0.19	0.14	0.16	0.13	0.22	0.19	0.09
177.0	0.12	0.17	0.12	0.15	0.13	0.21	0.11	0.16	0.15	0.09
177.5	0.12	0.15	0.09	0.21	0.11	0.17	0.12	0.17	0.16	0.10
178.0	0.15	0.16	0.10	0.19	0.09	0.17	0.13	0.21	0.17	0.13
178.5	0.17	0.15	0.11	0.15	0.14	0.14	0.09	0.21	0.14	0.10
179.0	0.19	0.19	0.14	0.16	0.12	0.17	0.12	0.15	0.19	0.11
179.5	0.15	0.15	0.10	0.15	0.13	0.15	0.13	0.19	0.14	0.10
180.0	0.16	0.12	0.13	0.15	0.10	0.16	0.14	0.19	0.15	0.09

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	398.71	398.71	398.71	398.71	398.71	398.71	398.71
0.5	394.96	398.59	396.19	396.10	400.13	397.39	400.77
1.0	394.77	402.72	393.54	397.70	402.63	394.44	392.04
1.5	401.30	395.76	400.77	404.46	402.99	396.65	388.46
2.0	395.33	387.70	405.49	411.54	404.42	396.27	386.73
2.5	386.03	393.40	406.02	416.16	410.25	399.01	389.72
3.0	390.84	403.02	400.75	419.50	417.65	401.55	396.31
3.5	396.43	405.84	399.78	426.62	424.25	400.27	401.38
4.0	390.85	398.49	402.17	430.79	425.96	402.79	401.38
4.5	383.18	395.85	402.72	427.94	426.38	402.23	401.21
5.0	384.13	397.01	410.33	420.92	420.66	398.15	399.47
5.5	392.45	401.38	413.98	413.23	409.28	395.70	398.72
6.0	397.96	404.20	410.33	403.98	399.11	390.62	397.02
6.5	392.18	396.13	405.78	397.92	398.22	387.28	392.95
7.0	387.04	388.15	397.05	392.85	396.89	383.92	393.76
7.5	385.14	385.07	394.61	387.54	392.79	378.68	394.89
8.0	382.80	383.99	398.87	387.08	389.92	375.21	392.74
8.5	388.04	383.99	403.83	386.68	391.71	371.73	393.52
9.0	395.35	384.97	407.59	384.30	394.50	370.05	391.32
9.5	392.10	383.50	404.87	382.69	391.92	363.28	381.40
10.0	382.34	375.87	396.03	379.16	382.62	355.38	369.67
10.5	374.79	367.02	382.10	378.79	373.14	352.00	365.12
11.0	370.63	366.99	371.16	381.19	366.31	347.73	365.65
11.5	372.96	369.00	367.19	381.15	361.31	340.89	358.95

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CANDELA TABULATION - (Cont.)

12.0	379.32	369.52	368.75	377.48	358.41	336.89	355.42
12.5	384.89	369.05	371.19	369.33	354.82	343.59	354.55
13.0	384.28	370.45	373.38	360.27	352.50	355.13	351.34
13.5	378.29	373.88	373.69	355.72	354.60	358.52	345.82
14.0	366.77	376.21	372.86	352.26	356.97	350.63	342.93
14.5	358.31	375.14	369.75	347.93	355.93	340.06	337.51
15.0	355.96	371.33	365.93	344.52	352.48	336.14	332.47
15.5	354.74	366.74	359.08	339.83	348.98	337.39	331.52
16.0	352.20	361.60	354.66	334.83	348.27	339.64	329.08
16.5	350.53	358.85	350.25	329.33	349.80	337.88	323.90
17.0	351.80	358.78	345.60	327.22	347.98	331.58	316.28
17.5	354.73	356.12	340.55	322.81	343.88	326.39	310.43
18.0	352.15	353.14	335.80	317.57	338.68	321.96	308.38
18.5	341.10	350.60	331.07	312.38	334.78	328.17	308.08
19.0	326.54	346.56	327.80	309.76	332.56	340.18	310.81
19.5	317.28	338.96	324.96	310.44	330.31	337.15	319.12
20.0	311.41	327.86	322.50	315.28	328.14	323.44	320.21
20.5	308.13	315.57	319.41	313.92	313.67	317.51	306.16
21.0	308.00	309.74	316.42	301.01	311.87	311.81	296.16
21.5	312.90	312.51	316.26	296.95	312.79	309.59	301.26
22.0	319.31	315.44	312.95	301.69	311.04	309.57	312.42
22.5	319.88	317.52	310.90	309.50	314.30	312.04	314.77
23.0	311.36	321.12	307.37	304.97	319.07	316.93	305.15
23.5	303.27	330.04	310.26	296.19	314.92	320.06	297.23
24.0	305.91	332.78	310.39	296.27	309.62	320.83	300.31
24.5	310.79	331.10	309.22	304.32	313.88	321.99	306.66
25.0	309.11	330.27	306.98	316.77	321.80	321.15	311.70
25.5	301.50	331.83	304.86	331.90	326.59	322.87	313.51
26.0	291.41	337.10	309.68	340.31	325.81	327.76	314.79
26.5	289.83	341.30	316.22	353.65	326.39	332.93	324.53
27.0	296.44	339.62	322.60	376.48	329.76	338.76	343.76
27.5	307.61	341.28	333.36	410.51	340.31	350.63	373.65
28.0	317.39	346.81	351.12	446.41	358.73	364.27	408.82
28.5	327.81	355.62	365.71	455.75	376.55	381.91	437.96
29.0	339.83	367.42	382.79	443.30	390.06	401.13	444.71
29.5	354.51	381.57	407.62	418.06	404.33	423.76	437.81
30.0	374.85	395.27	427.87	394.66	412.59	431.70	410.89
30.5	391.26	412.28	438.39	374.53	421.08	441.64	389.50
31.0	407.38	425.84	432.20	360.14	439.34	441.31	390.82
31.5	423.16	430.95	420.29	375.17	461.63	441.97	403.27
32.0	432.27	440.98	409.99	401.91	475.50	442.51	420.05
32.5	423.64	447.86	402.36	420.24	475.61	444.91	451.90
33.0	400.25	456.82	402.18	480.84	473.28	453.54	469.34
33.5	375.69	463.48	415.65	493.39	466.39	473.20	452.51
34.0	365.97	477.23	435.42	472.10	458.72	488.92	423.64
34.5	374.72	489.46	453.44	449.18	454.25	500.70	405.57
35.0	398.72	501.80	463.00	439.89	464.46	511.19	406.35
35.5	433.47	515.12	472.45	440.88	481.18	515.66	413.54
36.0	455.58	520.13	485.94	446.66	501.00	515.55	426.80
36.5	481.31	524.17	489.31	458.24	509.56	507.69	441.33
37.0	501.47	521.34	482.87	465.88	516.74	506.27	455.09
37.5	502.49	518.71	472.45	467.95	514.89	519.92	469.98
38.0	484.69	525.49	468.84	470.57	511.28	540.88	485.37
38.5	460.56	528.43	473.50	480.62	510.47	551.80	492.44
39.0	437.39	525.38	487.01	490.34	511.14	545.47	486.79
39.5	422.44	528.87	496.94	494.26	511.75	537.83	474.87

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CANDELA TABULATION - (Cont.)

40.0	418.23	535.75	497.80	490.55	515.60	535.31	466.94
40.5	428.63	533.13	497.00	482.58	518.70	528.80	464.69
41.0	445.71	528.00	510.10	482.69	519.78	522.96	470.70
41.5	465.09	526.47	525.81	487.17	524.39	516.01	479.14
42.0	478.41	523.63	527.60	497.22	529.95	509.40	485.35
42.5	489.63	521.67	521.86	512.38	535.97	509.42	486.93
43.0	498.36	518.39	519.69	527.01	533.13	512.69	487.40
43.5	506.74	519.59	523.98	533.35	527.01	516.36	490.17
44.0	513.87	525.59	528.31	536.18	524.39	519.58	496.62
44.5	514.49	532.47	530.45	537.06	525.26	523.66	506.01
45.0	510.51	539.57	535.64	539.35	527.01	527.11	513.48
45.5	508.51	548.09	538.04	539.02	532.58	528.89	518.46
46.0	510.85	552.02	542.52	534.76	540.55	528.91	522.51
46.5	516.36	552.68	543.72	528.22	544.59	525.96	525.03
47.0	519.34	551.47	539.79	525.05	544.81	521.07	526.70
47.5	516.00	548.52	534.44	522.87	544.92	517.61	524.63
48.0	508.56	540.77	530.18	520.13	543.83	516.49	518.26
48.5	501.27	536.40	526.80	519.26	537.27	514.61	511.31
49.0	499.41	526.05	524.83	521.55	529.53	511.20	507.98
49.5	502.66	520.86	523.53	525.82	524.39	508.51	505.93
50.0	505.87	518.25	521.45	531.50	519.26	504.47	504.46
50.5	507.32	515.62	520.03	533.89	514.24	501.56	503.27
51.0	509.86	512.54	519.04	532.26	511.52	499.20	504.59
51.5	514.83	508.18	518.50	529.75	510.20	498.69	507.83
52.0	521.59	505.93	517.41	529.53	509.22	498.57	511.89
52.5	527.77	507.02	517.95	532.26	509.77	497.15	512.96
53.0	528.40	509.23	519.59	534.76	511.52	495.81	511.46
53.5	525.68	511.36	519.70	535.54	512.28	495.59	508.91
54.0	523.65	512.22	519.49	527.33	512.94	495.93	507.01
54.5	521.73	513.50	520.58	521.23	513.04	495.92	505.88
55.0	519.73	515.30	521.23	513.35	513.91	494.85	504.96
55.5	517.59	515.42	520.25	506.38	514.36	494.59	502.34
56.0	515.09	514.82	516.97	499.65	514.24	494.63	498.01
56.5	512.95	512.08	512.49	495.63	513.58	494.04	494.44
57.0	509.32	509.21	505.62	492.82	511.40	492.63	491.45
57.5	503.35	506.17	499.07	490.08	507.03	490.97	489.74
58.0	496.96	501.37	492.85	488.82	501.69	489.13	488.40
58.5	490.99	497.30	488.04	489.40	496.01	486.34	487.48
59.0	486.69	494.76	486.18	490.91	491.31	482.65	486.53
59.5	483.30	492.67	485.52	491.26	487.71	478.64	485.29
60.0	480.36	489.30	484.98	490.55	484.55	474.04	485.01
60.5	479.60	485.37	484.88	489.73	482.36	470.22	485.73
61.0	479.84	481.58	484.11	488.99	480.84	466.57	486.41
61.5	480.17	478.02	483.67	488.33	479.75	463.17	486.18
62.0	481.02	476.62	482.91	488.12	478.97	461.83	485.09
62.5	482.24	475.45	482.04	487.36	478.97	461.72	483.51
63.0	482.10	475.81	481.27	486.16	479.85	463.24	481.24
63.5	480.54	477.11	481.60	484.22	480.29	465.39	478.48
64.0	479.18	480.34	481.71	480.48	480.84	468.02	475.90
64.5	477.43	483.63	480.72	476.53	481.60	470.68	473.10
65.0	474.48	486.89	479.09	472.52	481.93	472.92	470.55
65.5	471.60	489.23	476.14	467.72	481.71	473.68	467.59
66.0	468.43	490.47	473.20	463.84	480.84	473.35	464.40
66.5	465.01	490.20	469.92	460.40	478.65	471.64	461.75
67.0	461.24	488.82	465.22	458.23	475.26	468.54	458.63
67.5	457.18	486.74	460.96	456.42	471.12	463.94	455.47

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CANDELA TABULATION - (Cont.)

68.0	454.22	483.06	457.36	455.25	466.97	458.91	452.79
68.5	451.49	479.10	454.31	454.68	462.28	453.65	450.48
69.0	450.14	474.28	451.36	453.84	458.02	447.66	449.09
69.5	449.23	469.45	448.30	452.44	453.65	442.48	447.92
70.0	447.66	464.46	445.90	449.59	448.85	438.46	446.69
70.5	445.37	460.58	444.69	446.27	445.78	437.01	445.03
71.0	442.26	457.57	444.15	442.81	444.37	437.66	442.65
71.5	438.67	455.92	444.59	438.44	445.47	439.77	440.05
72.0	435.68	456.54	445.02	434.48	447.53	441.37	436.99
72.5	432.91	459.12	445.78	430.75	449.83	443.30	433.85
73.0	430.81	460.88	446.01	427.65	451.36	445.42	430.83
73.5	428.91	461.36	446.66	424.85	453.65	446.86	427.57
74.0	425.95	462.75	446.44	422.20	455.50	447.32	424.90
74.5	422.89	464.15	443.82	420.11	455.94	446.17	422.02
75.0	420.17	464.60	441.20	418.20	454.96	444.05	419.75
75.5	418.35	463.82	439.24	417.04	453.54	441.14	417.76
76.0	416.73	462.35	435.82	415.96	451.57	437.51	415.59
76.5	414.96	459.42	433.43	414.29	448.62	431.76	413.59
77.0	412.64	455.48	430.22	412.31	444.15	427.00	411.13
77.5	410.72	450.49	428.25	409.54	438.03	423.50	408.56
78.0	409.71	445.61	426.24	405.55	432.43	421.43	406.03
78.5	408.23	441.36	424.53	401.99	430.14	420.06	403.21
79.0	405.52	438.06	423.84	398.63	427.92	418.70	400.83
79.5	402.07	435.03	423.47	396.15	425.76	417.75	398.46
80.0	397.70	431.86	421.33	394.09	424.31	417.40	396.14
80.5	393.90	429.32	419.53	391.69	423.97	417.30	394.21
81.0	390.74	428.79	420.29	389.52	424.38	416.82	392.01
81.5	387.84	429.43	420.09	386.87	424.14	415.68	389.58
82.0	385.77	429.45	417.28	384.35	422.67	413.81	386.97
82.5	383.74	428.45	415.39	382.03	421.72	410.70	384.44
83.0	381.84	426.72	413.50	379.18	420.45	407.41	381.79
83.5	379.84	423.50	410.34	376.05	416.98	403.33	378.41
84.0	377.40	418.91	405.73	372.21	412.36	398.98	375.18
84.5	374.84	414.70	400.72	368.95	407.25	395.97	371.78
85.0	371.32	410.93	397.15	365.98	402.58	393.14	368.11
85.5	367.69	407.95	394.70	363.53	398.91	390.63	365.10
86.0	364.01	405.16	392.85	360.92	395.21	388.40	362.26
86.5	359.80	402.49	390.93	358.38	392.84	387.36	360.23
87.0	356.34	400.82	388.82	356.08	391.14	386.93	358.04
87.5	353.16	399.72	387.61	354.08	390.15	386.05	356.34
88.0	350.74	398.84	386.81	352.74	390.01	385.69	354.71
88.5	348.72	398.42	386.29	351.65	390.18	385.48	352.52
89.0	347.21	398.49	386.85	349.62	390.54	384.58	350.21
89.5	346.27	397.70	387.70	346.66	390.32	382.37	346.82
90.0	345.20	394.86	386.78	342.49	388.71	378.87	343.08
90.5	343.31	390.78	383.95	337.38	385.70	375.23	339.14
91.0	340.04	386.11	378.92	332.78	381.04	371.49	334.79
91.5	334.89	381.19	374.04	328.05	375.92	367.39	330.94
92.0	329.83	377.02	368.33	324.30	370.77	363.74	327.31
92.5	324.47	373.95	364.01	320.56	365.51	359.98	323.42
93.0	320.13	370.85	360.66	316.76	361.14	357.01	320.06
93.5	316.45	368.00	357.46	313.13	356.68	354.02	316.02
94.0	312.66	364.75	354.91	308.84	353.31	351.22	312.50
94.5	309.31	361.63	352.50	304.72	350.35	348.49	308.99
95.0	305.34	358.45	349.69	300.17	347.54	345.35	305.17
95.5	301.77	355.72	347.27	296.41	345.05	342.41	301.62

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CANDELA TABULATION - (Cont.)

96.0	298.23	353.02	344.59	292.61	343.00	338.98	297.73
96.5	294.48	350.11	342.31	288.47	340.92	335.89	294.09
97.0	291.39	347.89	340.10	285.08	339.17	333.10	291.05
97.5	288.37	345.90	337.74	281.55	337.37	330.38	287.61
98.0	285.90	343.22	335.44	278.62	335.57	328.29	284.16
98.5	283.48	340.70	332.76	275.91	333.59	325.61	280.19
99.0	280.86	338.09	330.02	272.80	331.07	323.05	276.78
99.5	278.54	335.75	327.12	269.72	328.30	320.49	273.49
100.0	275.71	332.92	323.89	266.17	325.04	317.77	269.41
100.5	272.91	329.68	321.12	262.57	321.88	314.94	265.57
101.0	269.83	326.59	318.10	258.84	318.48	311.59	261.46
101.5	266.05	322.79	315.17	254.46	314.87	308.54	257.90
102.0	262.31	319.41	312.09	250.53	311.71	305.72	254.80
102.5	258.12	316.25	308.97	246.29	307.56	302.79	251.49
103.0	254.57	312.91	305.82	242.61	304.37	299.88	248.53
103.5	251.25	309.85	301.84	239.19	301.61	296.37	245.15
104.0	247.65	306.75	298.90	235.41	298.92	293.05	242.30
104.5	244.80	304.17	295.66	232.16	296.43	289.79	239.14
105.0	241.96	301.26	293.16	228.89	293.62	286.27	235.61
105.5	239.51	298.04	290.60	226.12	290.85	283.03	232.17
106.0	236.80	295.14	287.60	223.49	287.95	279.86	228.00
106.5	234.53	291.71	284.70	220.69	284.79	277.06	224.88
107.0	232.19	288.42	281.59	218.14	281.73	273.83	221.64
107.5	229.39	284.65	278.27	214.89	278.25	270.53	217.99
108.0	226.71	280.45	274.81	211.56	274.73	267.95	215.15
108.5	223.74	276.94	271.01	208.20	271.38	265.32	212.12
109.0	220.16	273.22	267.49	204.67	267.74	262.10	209.38
109.5	216.65	269.60	263.87	201.61	264.41	258.69	206.50
110.0	212.82	265.87	259.92	198.33	260.65	254.92	203.40
110.5	209.72	262.78	256.38	195.41	257.40	251.40	201.12
111.0	206.52	259.55	252.39	192.54	254.15	247.13	198.69
111.5	203.79	255.84	248.85	189.64	250.44	243.13	196.22
112.0	201.22	252.46	245.51	187.28	246.85	239.12	193.81
112.5	198.55	248.68	241.93	184.69	242.86	234.57	191.18
113.0	196.24	245.33	238.51	182.54	239.21	230.48	188.49
113.5	192.64	241.72	234.69	180.47	235.41	225.98	185.87
114.0	189.20	237.72	231.40	178.16	231.57	222.28	183.34
114.5	186.06	233.89	228.24	175.88	227.79	218.08	180.84
115.0	182.97	229.42	224.48	173.18	223.30	213.39	177.99
115.5	180.36	225.39	220.97	170.71	219.00	209.36	175.46
116.0	177.57	221.09	216.75	168.24	214.57	204.90	172.66
116.5	175.37	216.38	212.44	165.32	209.80	200.70	169.82
117.0	173.06	212.10	208.06	162.67	205.76	196.70	167.29
117.5	170.23	207.34	203.32	159.75	201.39	192.08	164.67
118.0	167.66	202.97	199.18	157.23	197.33	188.06	161.93
118.5	164.82	198.48	194.89	154.77	193.32	183.72	158.90
119.0	161.48	193.63	191.18	152.09	189.21	179.80	156.39
119.5	158.29	189.36	187.29	149.64	185.45	175.56	153.55
120.0	154.93	184.58	183.09	147.07	180.93	170.89	150.80
120.5	152.27	180.17	179.31	144.83	176.62	166.56	148.10
121.0	149.41	175.10	174.91	142.74	172.27	161.63	145.27
121.5	146.67	167.91	170.99	140.31	167.35	156.79	142.53
122.0	144.25	162.22	167.00	138.00	162.58	151.84	139.72
122.5	139.15	156.44	162.23	135.02	157.01	146.37	136.74
123.0	132.94	149.72	157.56	131.95	151.54	141.60	133.77
123.5	127.21	143.38	151.93	128.76	145.80	136.66	130.98

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CANDELA TABULATION - (Cont.)

124.0	120.19	135.96	146.94	125.05	140.72	131.19	128.05
124.5	110.98	128.15	141.96	121.84	135.71	125.15	125.24
125.0	102.99	120.05	136.48	118.36	129.31	118.49	121.78
125.5	93.57	112.20	131.47	115.43	123.23	112.47	118.61
126.0	83.28	102.44	125.05	112.68	117.43	104.91	115.32
126.5	75.39	91.11	119.74	107.52	112.28	97.74	110.24
127.0	65.80	82.24	114.92	102.54	106.43	90.76	105.39
127.5	58.90	71.40	108.78	98.23	98.87	83.77	100.59
128.0	55.27	60.13	102.21	94.93	92.11	77.83	96.25
128.5	46.32	54.86	94.40	90.72	85.37	70.15	91.27
129.0	42.72	40.80	87.74	84.97	79.84	63.94	85.05
129.5	35.59	33.30	81.61	80.18	73.81	58.37	80.00
130.0	34.64	24.90	75.00	75.51	66.00	54.78	75.01
130.5	30.26	19.08	68.50	69.82	59.84	48.01	69.35
131.0	26.42	15.24	61.91	63.90	54.48	41.26	62.66
131.5	23.54	13.34	57.15	57.51	49.73	37.06	57.88
132.0	21.00	11.82	52.10	54.37	43.98	32.59	54.69
132.5	20.78	10.28	44.83	46.20	36.66	28.86	46.51
133.0	20.70	8.45	37.99	41.34	34.62	24.90	41.53
133.5	19.81	7.30	35.48	37.18	31.20	21.45	37.67
134.0	19.57	6.43	32.22	32.07	27.82	18.91	33.05
134.5	21.14	5.32	27.93	28.19	24.29	16.09	26.83
135.0	21.75	4.40	24.20	25.95	21.01	13.33	23.92
135.5	20.66	3.98	22.08	21.56	18.37	10.46	21.87
136.0	21.42	3.44	19.00	18.84	15.70	8.31	17.95
136.5	21.09	2.41	15.72	17.37	13.17	6.24	16.45
137.0	19.64	2.07	13.22	12.71	10.86	4.39	13.54
137.5	18.41	1.68	10.48	10.41	8.42	3.86	10.74
138.0	15.40	1.45	7.61	7.69	5.93	2.70	8.58
138.5	12.41	1.42	5.50	5.67	4.63	2.36	5.94
139.0	10.51	1.39	4.03	4.47	3.17	2.21	4.79
139.5	7.53	1.37	3.27	2.22	2.88	2.03	2.39
140.0	5.52	1.32	2.93	1.97	2.65	1.92	1.99
140.5	2.51	1.23	2.74	1.85	2.57	1.71	1.83
141.0	2.40	1.17	2.55	1.62	2.39	1.62	1.68
141.5	2.27	1.15	2.34	1.55	2.15	1.52	1.50
142.0	2.13	1.08	2.25	1.43	2.04	1.38	1.39
142.5	1.97	1.01	2.10	1.27	1.92	1.12	1.30
143.0	1.87	0.89	2.00	1.19	1.79	1.10	1.18
143.5	1.77	0.81	1.91	1.07	1.66	0.99	1.06
144.0	1.58	0.79	1.77	1.00	1.60	0.95	1.05
144.5	1.48	0.69	1.66	0.88	1.54	0.84	0.90
145.0	1.41	0.59	1.59	0.88	1.43	0.81	0.89
145.5	1.31	0.60	1.46	0.80	1.34	0.69	0.81
146.0	1.30	0.65	1.36	0.69	1.25	0.65	0.81
146.5	1.15	0.64	1.32	0.69	1.19	0.58	0.65
147.0	1.09	0.65	1.27	0.64	1.10	0.52	0.58
147.5	1.08	0.53	1.21	0.53	1.05	0.47	0.47
148.0	1.00	0.50	1.14	0.56	0.99	0.44	0.42
148.5	0.93	0.46	1.05	0.43	0.89	0.42	0.42
149.0	0.88	0.42	1.06	0.41	0.89	0.39	0.40
149.5	0.81	0.39	1.03	0.39	0.82	0.36	0.37
150.0	0.78	0.38	0.94	0.34	0.75	0.34	0.32
150.5	0.77	0.31	0.93	0.26	0.72	0.29	0.34
151.0	0.65	0.30	0.81	0.32	0.67	0.30	0.28
151.5	0.67	0.32	0.79	0.31	0.58	0.26	0.27

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CANDELA TABULATION - (Cont.)

152.0	0.60	0.32	0.73	0.26	0.56	0.24	0.27
152.5	0.62	0.29	0.66	0.25	0.54	0.17	0.27
153.0	0.54	0.27	0.60	0.24	0.53	0.23	0.23
153.5	0.52	0.24	0.54	0.24	0.48	0.21	0.26
154.0	0.53	0.25	0.51	0.21	0.47	0.20	0.24
154.5	0.51	0.22	0.57	0.24	0.46	0.17	0.24
155.0	0.49	0.17	0.53	0.22	0.42	0.17	0.19
155.5	0.49	0.20	0.47	0.17	0.40	0.21	0.21
156.0	0.46	0.17	0.47	0.17	0.44	0.15	0.23
156.5	0.42	0.25	0.41	0.19	0.40	0.17	0.24
157.0	0.45	0.20	0.46	0.16	0.36	0.16	0.24
157.5	0.44	0.21	0.45	0.16	0.36	0.17	0.21
158.0	0.42	0.20	0.44	0.25	0.33	0.13	0.19
158.5	0.44	0.21	0.37	0.16	0.36	0.13	0.20
159.0	0.38	0.21	0.40	0.21	0.34	0.16	0.22
159.5	0.36	0.19	0.39	0.17	0.36	0.19	0.22
160.0	0.30	0.23	0.41	0.19	0.37	0.15	0.22
160.5	0.36	0.21	0.35	0.15	0.33	0.15	0.21
161.0	0.36	0.14	0.41	0.19	0.31	0.11	0.26
161.5	0.32	0.19	0.35	0.20	0.33	0.16	0.22
162.0	0.31	0.20	0.39	0.19	0.31	0.15	0.21
162.5	0.34	0.20	0.37	0.19	0.31	0.15	0.17
163.0	0.34	0.22	0.32	0.20	0.31	0.14	0.19
163.5	0.33	0.13	0.37	0.20	0.30	0.17	0.20
164.0	0.36	0.17	0.33	0.19	0.31	0.20	0.20
164.5	0.28	0.14	0.32	0.15	0.31	0.20	0.19
165.0	0.27	0.16	0.30	0.16	0.34	0.15	0.20
165.5	0.29	0.21	0.33	0.14	0.27	0.15	0.23
166.0	0.28	0.14	0.36	0.14	0.31	0.17	0.19
166.5	0.28	0.14	0.28	0.13	0.27	0.12	0.23
167.0	0.31	0.21	0.32	0.16	0.31	0.13	0.14
167.5	0.27	0.15	0.30	0.17	0.23	0.15	0.23
168.0	0.27	0.15	0.27	0.14	0.28	0.11	0.15
168.5	0.29	0.16	0.27	0.15	0.28	0.17	0.16
169.0	0.30	0.17	0.26	0.14	0.28	0.12	0.17
169.5	0.25	0.15	0.27	0.15	0.24	0.14	0.20
170.0	0.24	0.16	0.23	0.14	0.25	0.16	0.19
170.5	0.24	0.16	0.23	0.16	0.23	0.13	0.15
171.0	0.28	0.16	0.25	0.13	0.22	0.09	0.16
171.5	0.22	0.10	0.24	0.13	0.20	0.10	0.16
172.0	0.22	0.14	0.22	0.13	0.26	0.13	0.17
172.5	0.24	0.16	0.21	0.20	0.23	0.11	0.19
173.0	0.20	0.11	0.23	0.13	0.20	0.17	0.21
173.5	0.23	0.15	0.20	0.13	0.23	0.13	0.16
174.0	0.21	0.14	0.26	0.11	0.22	0.10	0.15
174.5	0.24	0.14	0.21	0.16	0.20	0.16	0.14
175.0	0.17	0.14	0.16	0.12	0.23	0.12	0.19
175.5	0.16	0.13	0.24	0.13	0.14	0.11	0.13
176.0	0.16	0.13	0.20	0.13	0.16	0.10	0.16
176.5	0.20	0.15	0.17	0.12	0.16	0.13	0.14
177.0	0.19	0.11	0.15	0.12	0.17	0.14	0.12
177.5	0.19	0.10	0.16	0.09	0.21	0.11	0.12
178.0	0.15	0.09	0.23	0.15	0.13	0.10	0.15
178.5	0.22	0.09	0.13	0.10	0.15	0.11	0.17
179.0	0.21	0.09	0.16	0.13	0.15	0.12	0.19
179.5	0.14	0.08	0.15	0.15	0.15	0.13	0.15

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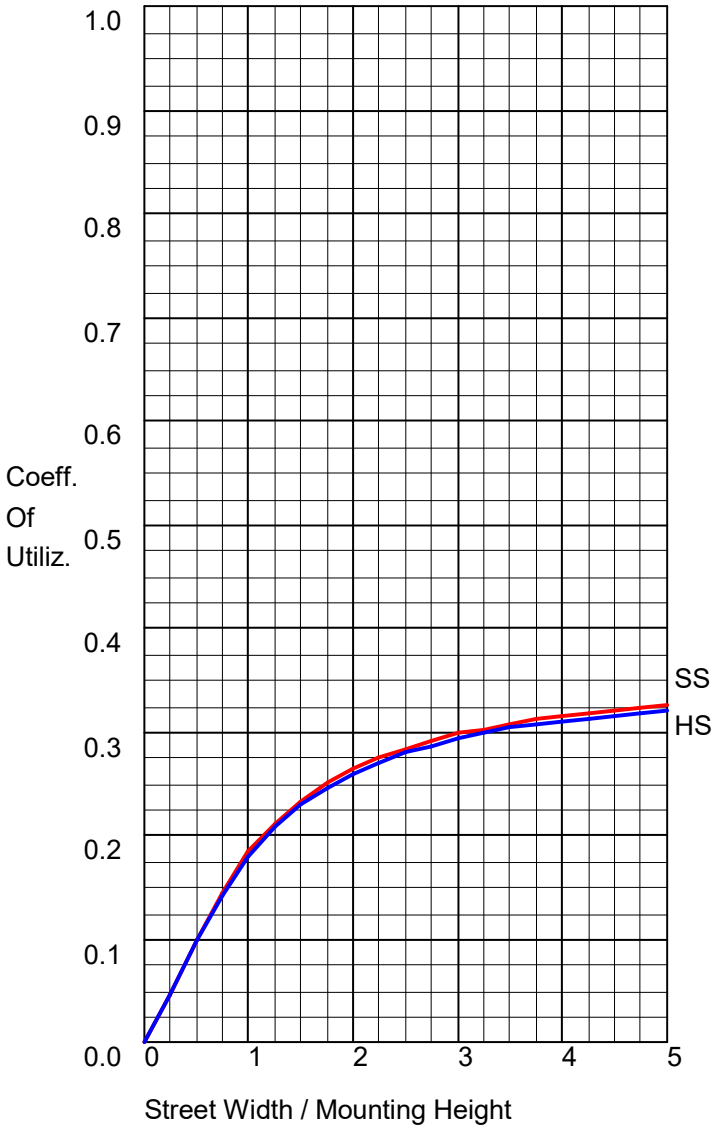
CANDELA TABULATION - (Cont.)

180.0	0.21	0.10	0.15	0.13	0.15	0.12	0.16

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IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-MJ-25W-LED-XX-PND.IES

COEFFICIENTS OF UTILIZATION



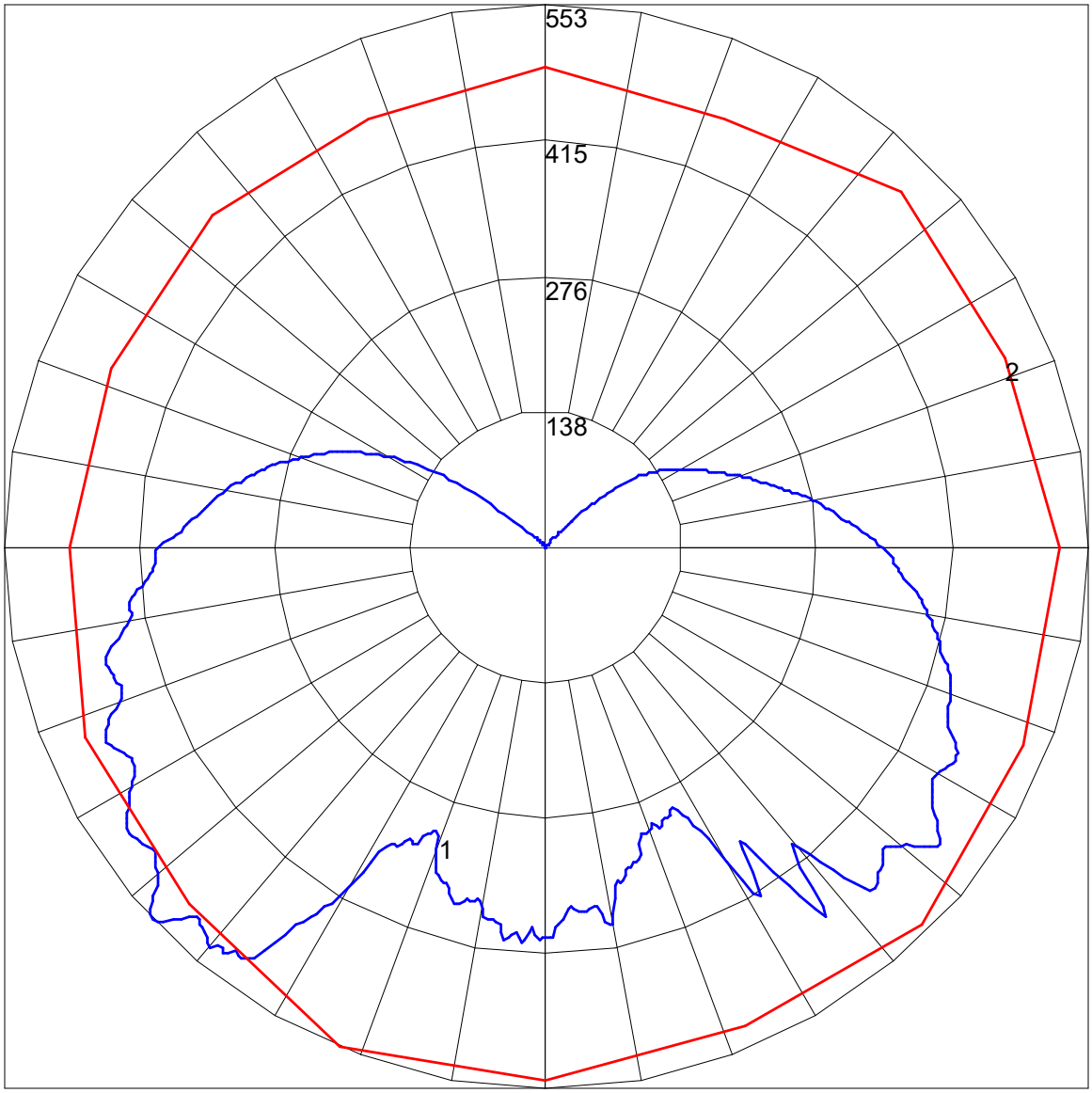
FLUX DISTRIBUTION

	Lumens	Percent Of Lamp
Downward Street Side	1374.8	36.8
Downward House Side	1351.3	36.2
Downward Total	2726.1	73.0
Upward Street Side	497.6	13.3
Upward House Side	510.9	13.7
Upward Total	1008.5	27.0
Total Flux	3734.6	100.0

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IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-MJ-25W-LED-XX-PND.IES

POLAR GRAPH

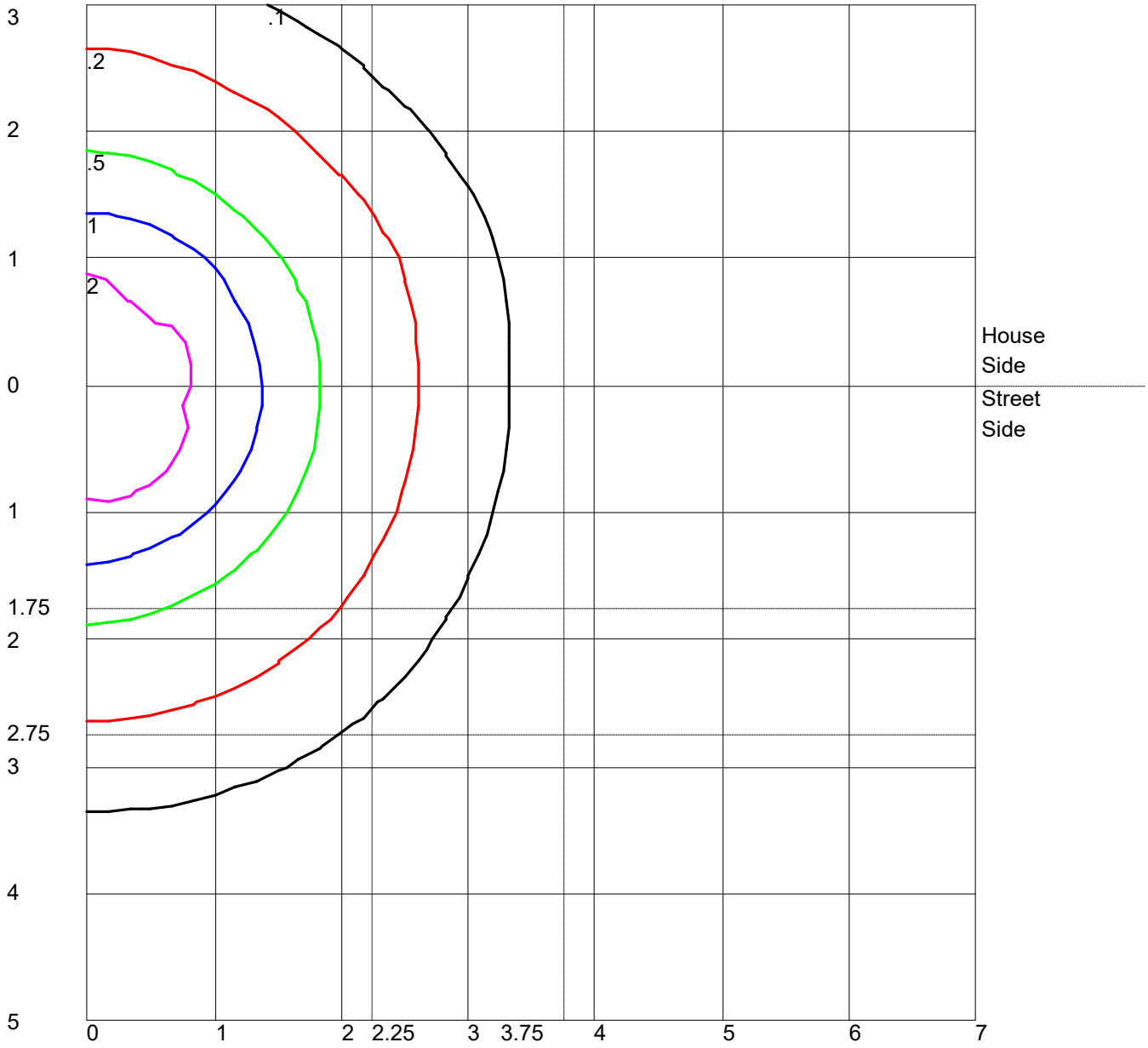


Maximum Candela = 552.68 Located At Horizontal Angle = 247.5, Vertical Angle = 46.5
1 - Vertical Plane Through Horizontal Angles (247.5 - 67.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (46.5) (Through Max. Cd.)

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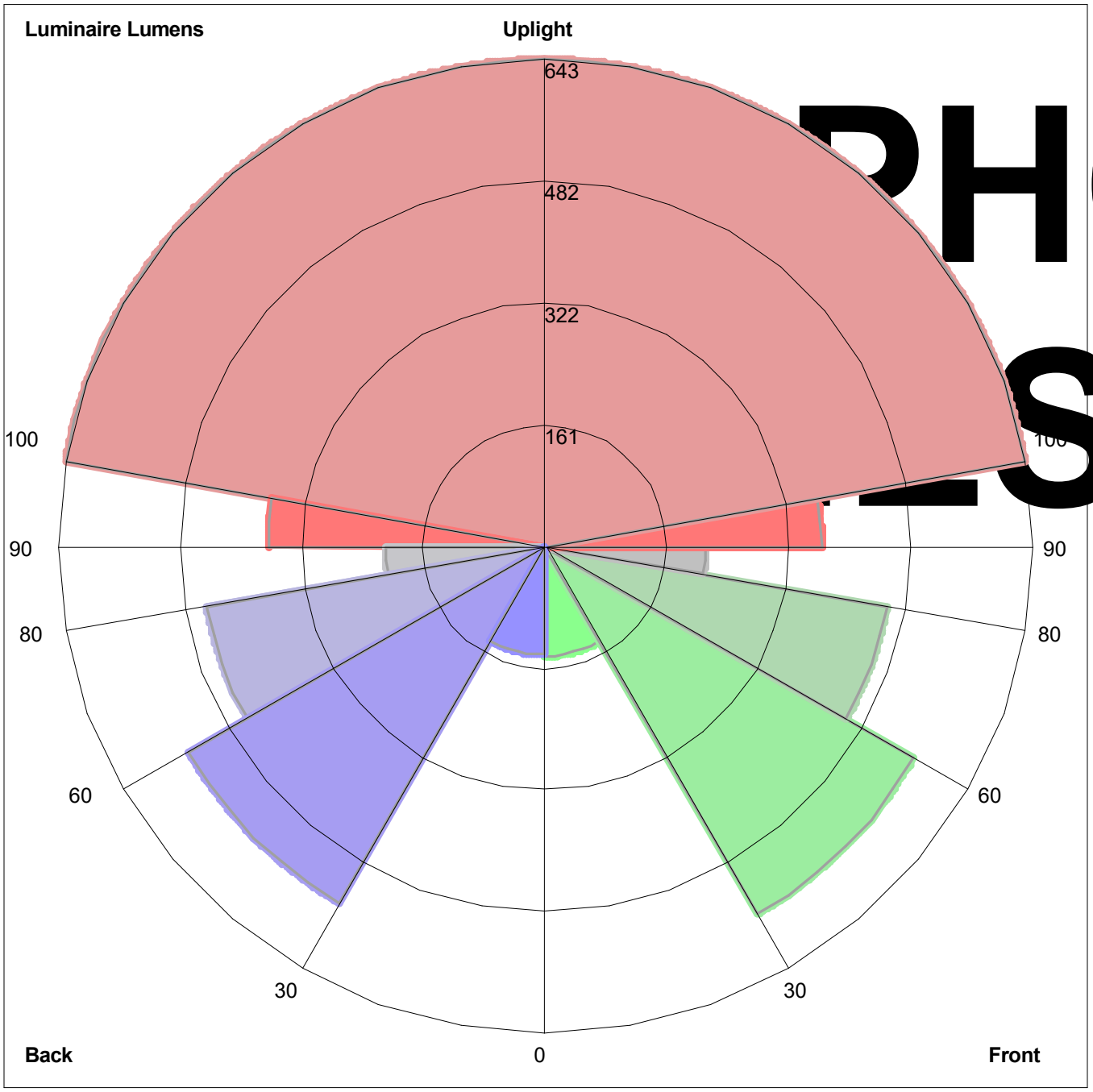
IES ROAD REPORT
PHOTOMETRIC FILENAME : EPL-MJ-25W-LED-XX-PND.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height


Luminaire Lumens
Uplight
643
482
322
161
100
100
90
90
80
80
60
60
30
30
0
Back
Front