



IES ROAD REPORT
PHOTOMETRIC FILENAME : SWPL-WB-LED-PL1-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]DCL-200-100W-40K-8-3PC
[TESTLAB]Standard-Tech Co., Ltd.
[TESTDATE]2015-09-17
[ISSUE DATE]2016-05-09
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SWPL-WB-LED-PL1-40
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9194
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	100.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.21
Maximum Candela	3460.25
Maximum Candela Angle	360H 52.5V
Maximum Candela (<90 Degrees Vertical)	3460.25
Maximum Candela Angle (<90 Degrees Vertical)	360H 52.5V
Maximum Candela At 90 Degrees Vertical	2459.64 (26.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2171.12 (23.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1035.8	N.A.	11.3
FM - Front-Medium (30-60)	2549.7	N.A.	27.7
FH - Front-High (60-80)	1756.7	N.A.	19.1
FVH - Front-Very High (80-90)	611.5	N.A.	6.7
BL - Back-Low (0-30)	531.5	N.A.	5.8
BM - Back-Medium (30-60)	626.9	N.A.	6.8
BH - Back-High (60-80)	166.1	N.A.	1.8
BVH - Back-Very High (80-90)	23.4	N.A.	0.3
UL - Uplight-Low (90-100)	717.1	N.A.	7.8
UH - Uplight-High (100-180)	1175.3	N.A.	12.8
Total	9194.0	N.A.	100.0
BUG Rating	B2-U5-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2150.27	2151.68	2153.09	2154.50	2155.92	2157.33	2158.74	2160.15	2161.57	2162.98
5.0	2407.06	2411.27	2415.47	2419.68	2423.89	2428.09	2432.30	2436.51	2440.71	2444.92
7.5	2571.89	2572.32	2572.76	2573.19	2573.63	2574.07	2574.50	2574.94	2575.37	2575.81
10.0	2542.43	2543.06	2543.70	2544.33	2544.96	2545.60	2546.23	2546.86	2547.50	2548.13
12.5	2758.71	2745.76	2732.82	2719.87	2706.92	2693.97	2681.03	2668.08	2655.13	2642.19
15.0	2786.08	2792.38	2798.68	2804.97	2811.27	2817.57	2823.87	2830.16	2836.46	2842.76
17.5	2674.07	2678.80	2683.54	2688.27	2693.01	2697.74	2702.47	2707.21	2711.94	2716.68
20.0	2812.75	2801.25	2789.74	2778.24	2766.74	2755.23	2743.73	2732.23	2720.72	2709.22
22.5	2744.60	2755.21	2765.83	2776.44	2787.06	2797.67	2808.29	2818.90	2829.52	2840.13
25.0	2651.89	2649.78	2647.67	2645.57	2643.46	2641.35	2639.24	2637.14	2635.03	2632.92
27.5	2784.98	2766.11	2747.25	2728.39	2709.53	2690.67	2671.81	2652.95	2634.09	2615.23
30.0	2950.35	2934.36	2918.38	2902.39	2886.40	2870.42	2854.43	2838.44	2822.46	2806.47
32.5	2804.97	2801.53	2798.09	2794.65	2791.21	2787.77	2784.33	2780.89	2777.45	2774.01
35.0	2672.94	2668.78	2664.62	2660.45	2656.29	2652.13	2647.97	2643.80	2639.64	2635.48
37.5	2745.73	2729.48	2713.23	2696.98	2680.73	2664.48	2648.23	2631.98	2615.73	2599.48
40.0	2842.02	2826.04	2810.06	2794.08	2778.10	2762.12	2746.14	2730.16	2714.18	2698.20
42.5	2976.31	2956.06	2935.82	2915.57	2895.33	2875.08	2854.84	2834.59	2814.35	2794.10
45.0	2961.58	2935.43	2909.28	2883.13	2856.98	2830.83	2804.68	2778.53	2752.38	2726.23
47.5	2931.13	2913.51	2895.90	2878.28	2860.67	2843.05	2825.44	2807.82	2790.21	2772.59
50.0	3101.71	3059.86	3018.00	2976.15	2934.29	2892.44	2850.58	2808.73	2766.87	2725.02
52.5	3460.25	3393.89	3327.52	3261.16	3194.79	3128.43	3062.06	2995.70	2929.33	2862.97
55.0	3292.72	3265.34	3237.96	3210.58	3183.20	3155.82	3128.44	3101.06	3073.68	3046.30
57.5	3015.09	3001.93	2988.78	2975.62	2962.46	2949.30	2936.15	2922.99	2909.83	2896.67
60.0	3038.53	3004.63	2970.74	2936.84	2902.95	2869.05	2835.16	2801.26	2767.37	2733.47
62.5	3401.80	3336.23	3270.66	3205.10	3139.53	3073.96	3008.40	2942.83	2877.27	2811.70
65.0	3394.10	3346.67	3299.25	3251.82	3204.40	3156.97	3109.55	3062.12	3014.70	2967.27
67.5	3115.32	3084.95	3054.58	3024.21	2993.84	2963.48	2933.11	2902.74	2872.37	2842.01
70.0	3269.99	3207.82	3145.65	3083.48	3021.31	2959.15	2896.98	2834.81	2772.64	2710.47
72.5	3449.25	3378.90	3308.55	3238.20	3167.84	3097.49	3027.14	2956.79	2886.44	2816.09
75.0	3139.79	3091.60	3043.41	2995.21	2947.02	2898.83	2850.64	2802.44	2754.25	2706.06
77.5	2407.38	2383.82	2360.27	2336.71	2313.16	2289.60	2266.05	2242.49	2218.94	2195.38
80.0	1877.01	1857.50	1837.98	1818.47	1798.96	1779.44	1759.93	1740.42	1720.90	1701.39
82.5	1701.21	1664.69	1628.17	1591.66	1555.14	1518.62	1482.10	1445.59	1409.07	1372.55
85.0	1820.30	1777.48	1734.67	1691.85	1649.03	1606.22	1563.40	1520.58	1477.77	1434.95
87.5	2171.12	2123.22	2075.32	2027.42	1979.52	1931.62	1883.72	1835.82	1787.92	1740.02
90.0	2459.64	2410.30	2360.96	2311.62	2262.28	2212.94	2163.60	2114.26	2064.92	2015.58
92.5	2482.69	2438.45	2394.21	2349.97	2305.73	2261.49	2217.26	2173.02	2128.78	2084.54
95.0	2413.37	2366.79	2320.21	2273.63	2227.05	2180.47	2133.89	2087.31	2040.73	1994.15
97.5	2306.94	2261.70	2216.47	2171.24	2126.01	2080.78	2035.55	1990.31	1945.08	1899.85
100.0	2191.36	2146.27	2101.17	2056.08	2010.99	1965.89	1920.80	1875.71	1830.61	1785.52
102.5	2038.65	1996.18	1953.71	1911.24	1868.77	1826.30	1783.83	1741.36	1698.89	1656.43
105.0	1912.81	1867.35	1821.89	1776.43	1730.97	1685.52	1640.06	1594.60	1549.14	1503.68
107.5	1760.28	1717.18	1674.08	1630.98	1587.88	1544.78	1501.68	1458.58	1415.48	1372.38
110.0	1543.55	1509.90	1476.25	1442.60	1408.95	1375.31	1341.66	1308.01	1274.36	1240.71
112.5	1063.63	1066.08	1068.52	1070.97	1073.41	1075.86	1078.31	1080.75	1083.20	1085.65
115.0	775.03	792.02	809.01	826.00	842.99	859.97	876.96	893.95	910.94	927.93
117.5	744.19	750.59	756.99	763.39	769.79	776.19	782.59	788.99	795.39	801.80
120.0	716.26	715.53	714.80	714.07	713.34	712.61	711.88	711.15	710.42	709.69
122.5	725.86	714.69	703.52	692.36	681.19	670.02	658.85	647.69	636.52	625.35
125.0	625.74	613.07	600.40	587.72	575.05	562.38	549.71	537.03	524.36	511.69
127.5	464.88	460.88	456.89	452.90	448.91	444.92	440.93	436.93	432.94	428.95
130.0	358.24	362.28	366.33	370.37	374.42	378.46	382.51	386.55	390.60	394.64

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132.5	342.92	343.40	343.89	344.37	344.86	345.34	345.83	346.31	346.80	347.28
135.0	310.24	309.01	307.79	306.56	305.33	304.11	302.88	301.65	300.43	299.20
137.5	263.70	267.19	270.69	274.19	277.69	281.18	284.68	288.18	291.68	295.18
140.0	290.16	288.36	286.56	284.76	282.96	281.16	279.36	277.56	275.76	273.96
142.5	272.72	271.56	270.41	269.26	268.11	266.96	265.81	264.66	263.51	262.36
145.0	253.40	252.14	250.88	249.63	248.37	247.11	245.85	244.60	243.34	242.08
147.5	236.47	235.16	233.84	232.53	231.21	229.90	228.58	227.27	225.95	224.64
150.0	222.51	220.59	218.67	216.74	214.82	212.90	210.98	209.05	207.13	205.21
152.5	204.11	201.27	198.44	195.61	192.77	189.94	187.11	184.27	181.44	178.61
155.0	176.65	173.45	170.24	167.04	163.83	160.63	157.42	154.22	151.01	147.81
157.5	144.59	141.19	137.79	134.38	130.98	127.58	124.18	120.77	117.37	113.97
160.0	109.07	105.85	102.63	99.41	96.19	92.98	89.76	86.54	83.32	80.10
162.5	71.30	68.61	65.92	63.23	60.54	57.85	55.16	52.47	49.78	47.10
165.0	35.28	33.32	31.35	29.39	27.42	25.46	23.49	21.53	19.56	17.60
167.5	7.51	7.36	7.21	7.06	6.91	6.77	6.62	6.47	6.32	6.17
170.0	6.69	6.64	6.59	6.54	6.49	6.45	6.40	6.35	6.30	6.25
172.5	7.25	7.17	7.09	7.01	6.93	6.85	6.77	6.69	6.61	6.53
175.0	7.86	7.75	7.64	7.53	7.42	7.30	7.19	7.08	6.97	6.86
177.5	8.09	7.98	7.88	7.77	7.67	7.56	7.46	7.35	7.25	7.14
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles Horizontal Angles

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2164.20	2165.42	2166.64	2167.86	2169.08	2170.30	2171.52	2172.74	2173.97	2168.97
5.0	2419.96	2395.01	2370.05	2345.10	2320.14	2295.19	2270.23	2245.28	2220.32	2211.33
7.5	2558.09	2540.37	2522.66	2504.94	2487.22	2469.50	2451.79	2434.07	2416.35	2389.78
10.0	2547.73	2547.33	2546.94	2546.54	2546.14	2545.74	2545.35	2544.95	2544.55	2506.83
12.5	2637.89	2633.59	2629.29	2624.99	2620.69	2616.39	2612.09	2607.79	2603.49	2570.94
15.0	2804.19	2765.61	2727.04	2688.46	2649.89	2611.31	2572.74	2534.16	2495.59	2483.49
17.5	2705.88	2695.09	2684.30	2673.51	2662.71	2651.92	2641.13	2630.34	2619.55	2590.37
20.0	2717.45	2725.68	2733.92	2742.15	2750.38	2758.61	2766.85	2775.08	2783.31	2739.91
22.5	2810.40	2780.66	2750.93	2721.20	2691.46	2661.73	2632.00	2602.26	2572.53	2549.87
25.0	2623.37	2613.83	2604.28	2594.74	2585.19	2575.65	2566.10	2556.56	2547.01	2512.36
27.5	2615.46	2615.69	2615.93	2616.16	2616.40	2616.63	2616.87	2617.10	2617.34	2572.38
30.0	2776.30	2746.13	2715.96	2685.79	2655.63	2625.46	2595.29	2565.12	2534.95	2500.95
32.5	2736.28	2698.55	2660.82	2623.09	2585.37	2547.64	2509.91	2472.18	2434.46	2410.66
35.0	2611.20	2586.92	2562.64	2538.36	2514.09	2489.81	2465.53	2441.25	2416.97	2383.67
37.5	2581.42	2563.37	2545.31	2527.25	2509.19	2491.14	2473.08	2455.02	2436.97	2392.16
40.0	2667.25	2636.31	2605.36	2574.41	2543.47	2512.52	2481.57	2450.63	2419.68	2367.58
42.5	2742.81	2691.52	2640.22	2588.93	2537.64	2486.35	2435.05	2383.76	2332.47	2285.75
45.0	2676.90	2627.57	2578.23	2528.90	2479.57	2430.24	2380.90	2331.57	2282.24	2232.68
47.5	2717.45	2662.30	2607.16	2552.01	2496.87	2441.72	2386.58	2331.43	2276.29	2218.94
50.0	2674.30	2623.58	2572.87	2522.15	2471.43	2420.71	2370.00	2319.28	2268.56	2203.91
52.5	2791.83	2720.69	2649.56	2578.42	2507.28	2436.15	2365.01	2293.88	2222.74	2154.06
55.0	2944.81	2843.32	2741.83	2640.34	2538.84	2437.35	2335.86	2234.37	2132.88	2062.61
57.5	2817.21	2737.74	2658.28	2578.81	2499.34	2419.88	2340.41	2260.95	2181.48	2091.45
60.0	2662.61	2591.75	2520.89	2450.03	2379.16	2308.30	2237.44	2166.58	2095.72	2003.05
62.5	2718.15	2624.59	2531.04	2437.48	2343.93	2250.38	2156.82	2063.27	1969.72	1880.83
65.0	2839.18	2711.09	2583.01	2454.92	2326.83	2198.74	2070.66	1942.57	1814.48	1731.69
67.5	2718.29	2594.57	2470.86	2347.14	2223.42	2099.71	1975.99	1852.28	1728.56	1641.06
70.0	2590.05	2469.63	2349.21	2228.79	2108.37	1987.95	1867.53	1747.11	1626.69	1538.10
72.5	2659.33	2502.58	2345.82	2189.07	2032.31	1875.56	1718.80	1562.05	1405.30	1332.48
75.0	2546.48	2386.90	2227.31	2067.73	1908.15	1748.57	1588.98	1429.40	1269.82	1200.75
77.5	2073.09	1950.79	1828.50	1706.21	1583.91	1461.62	1339.33	1217.03	1094.74	1039.32

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80.0	1616.49	1531.59	1446.70	1361.80	1276.90	1192.00	1107.11	1022.21	937.31	900.38
82.5	1340.86	1309.18	1277.49	1245.81	1214.12	1182.43	1150.75	1119.06	1087.38	1034.72
85.0	1398.75	1362.54	1326.34	1290.13	1253.93	1217.72	1181.52	1145.31	1109.11	1056.34
87.5	1680.74	1621.47	1562.19	1502.92	1443.64	1384.36	1325.09	1265.81	1206.54	1146.78
90.0	1938.72	1861.86	1785.00	1708.14	1631.29	1554.43	1477.57	1400.71	1323.85	1251.55
92.5	2000.56	1916.58	1832.61	1748.63	1664.65	1580.67	1496.70	1412.72	1328.74	1252.98
95.0	1915.80	1837.44	1759.09	1680.74	1602.38	1524.03	1445.68	1367.32	1288.97	1212.10
97.5	1822.51	1745.17	1667.83	1590.48	1513.14	1435.80	1358.46	1281.12	1203.78	1128.85
100.0	1713.79	1642.06	1570.34	1498.61	1426.88	1355.15	1283.43	1211.70	1139.97	1064.17
102.5	1589.94	1523.46	1456.97	1390.49	1324.00	1257.52	1191.03	1124.55	1058.07	984.40
105.0	1444.60	1385.52	1326.43	1267.35	1208.27	1149.19	1090.10	1031.02	971.94	901.86
107.5	1317.76	1263.14	1208.52	1153.90	1099.29	1044.67	990.05	935.43	880.82	816.94
110.0	1192.62	1144.53	1096.44	1048.35	1000.27	952.18	904.09	856.00	807.91	749.30
112.5	1045.55	1005.45	965.35	925.25	885.15	845.05	804.95	764.85	724.75	673.00
115.0	897.03	866.12	835.22	804.32	773.41	742.51	711.61	680.70	649.80	604.03
117.5	777.21	752.63	728.05	703.47	678.89	654.31	629.73	605.15	580.57	540.65
120.0	686.54	663.38	640.23	617.07	593.92	570.76	547.61	524.45	501.30	468.44
122.5	604.82	584.29	563.76	543.23	522.70	502.17	481.64	461.11	440.58	412.53
125.0	498.58	485.46	472.35	459.23	446.12	433.00	419.89	406.77	393.66	368.51
127.5	418.93	408.90	398.88	388.85	378.83	368.80	358.78	348.75	338.73	317.82
130.0	385.10	375.56	366.03	356.49	346.95	337.41	327.88	318.34	308.80	289.35
132.5	340.59	333.90	327.21	320.51	313.82	307.13	300.44	293.75	287.06	268.25
135.0	294.90	290.60	286.30	282.00	277.70	273.40	269.10	264.80	260.50	242.76
137.5	289.83	284.49	279.15	273.81	268.46	263.12	257.78	252.44	247.10	229.10
140.0	268.75	263.53	258.32	253.11	247.89	242.68	237.47	232.25	227.04	209.63
142.5	255.49	248.63	241.76	234.89	228.03	221.16	214.29	207.43	200.56	184.38
145.0	234.75	227.42	220.09	212.76	205.42	198.09	190.76	183.43	176.10	161.13
147.5	216.53	208.43	200.33	192.22	184.12	176.02	167.92	159.81	151.71	137.82
150.0	196.46	187.72	178.97	170.23	161.48	152.74	143.99	135.25	126.50	114.71
152.5	169.71	160.82	151.93	143.03	134.14	125.25	116.36	107.46	98.57	89.44
155.0	139.31	130.80	122.30	113.80	105.29	96.79	88.29	79.78	71.28	64.80
157.5	106.30	98.63	90.96	83.29	75.61	67.94	60.27	52.60	44.93	41.02
160.0	73.67	67.23	60.80	54.36	47.93	41.49	35.06	28.62	22.19	20.54
162.5	42.56	38.02	33.48	28.94	24.41	19.87	15.33	10.79	6.26	6.24
165.0	16.30	15.00	13.71	12.41	11.11	9.81	8.52	7.22	5.92	5.89
167.5	6.14	6.11	6.09	6.06	6.03	6.00	5.98	5.95	5.92	5.92
170.0	6.23	6.21	6.19	6.17	6.16	6.14	6.12	6.10	6.08	6.18
172.5	6.56	6.58	6.61	6.63	6.66	6.68	6.71	6.73	6.76	6.83
175.0	6.94	7.02	7.10	7.18	7.27	7.35	7.43	7.51	7.59	7.58
177.5	7.23	7.33	7.42	7.52	7.61	7.70	7.80	7.89	7.99	7.95
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Horizontal Angles
Angles

	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2163.98	2158.99	2154.00	2149.01	2144.02	2139.03	2134.04	2129.05	2125.08	2121.12
5.0	2202.34	2193.35	2184.36	2175.36	2166.37	2157.38	2148.39	2139.40	2128.44	2117.48
7.5	2363.22	2336.65	2310.09	2283.52	2256.96	2230.39	2203.83	2177.26	2166.50	2155.75
10.0	2469.11	2431.38	2393.66	2355.94	2318.22	2280.49	2242.77	2205.05	2186.32	2167.59
12.5	2538.39	2505.85	2473.30	2440.75	2408.20	2375.66	2343.11	2310.56	2274.15	2237.73
15.0	2471.39	2459.29	2447.19	2435.08	2422.98	2410.88	2398.78	2386.68	2342.87	2299.07
17.5	2561.20	2532.03	2502.86	2473.68	2444.51	2415.34	2386.17	2357.00	2307.03	2257.06
20.0	2696.52	2653.12	2609.73	2566.33	2522.94	2479.54	2436.15	2392.75	2335.65	2278.55
22.5	2527.22	2504.56	2481.91	2459.25	2436.59	2413.94	2391.28	2368.63	2303.19	2237.76
25.0	2477.71	2443.06	2408.41	2373.76	2339.11	2304.46	2269.81	2235.16	2179.63	2124.10

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CANDELA TABULATION - (Cont.)

27.5	2527.43	2482.47	2437.52	2392.57	2347.61	2302.66	2257.70	2212.75	2153.28	2093.81
30.0	2466.95	2432.96	2398.96	2364.96	2330.96	2296.97	2262.97	2228.97	2160.07	2091.16
32.5	2386.87	2363.08	2339.29	2315.50	2291.71	2267.92	2244.13	2220.34	2142.08	2063.82
35.0	2350.37	2317.07	2283.77	2250.47	2217.17	2183.87	2150.57	2117.27	2041.98	1966.69
37.5	2347.36	2302.56	2257.76	2212.96	2168.16	2123.35	2078.55	2033.75	1958.29	1882.84
40.0	2315.47	2263.37	2211.26	2159.16	2107.05	2054.95	2002.84	1950.74	1876.64	1802.54
42.5	2239.04	2192.32	2145.60	2098.88	2052.17	2005.45	1958.73	1912.02	1831.80	1751.58
45.0	2183.13	2133.57	2084.02	2034.46	1984.91	1935.35	1885.80	1836.24	1754.40	1672.56
47.5	2161.60	2104.26	2046.92	1989.58	1932.24	1874.90	1817.56	1760.22	1679.25	1598.28
50.0	2139.26	2074.61	2009.96	1945.31	1880.66	1816.01	1751.36	1686.71	1606.20	1525.69
52.5	2085.38	2016.70	1948.02	1879.33	1810.65	1741.97	1673.29	1604.61	1525.04	1445.47
55.0	1992.35	1922.08	1851.81	1781.55	1711.28	1641.01	1570.75	1500.48	1423.94	1347.40
57.5	2001.43	1911.40	1821.38	1731.35	1641.32	1551.30	1461.27	1371.24	1299.15	1227.06
60.0	1910.38	1817.71	1725.04	1632.36	1539.69	1447.02	1354.35	1261.68	1192.19	1122.70
62.5	1791.95	1703.06	1614.18	1525.29	1436.41	1347.52	1258.64	1169.75	1102.04	1034.34
65.0	1648.90	1566.10	1483.31	1400.52	1317.73	1234.93	1152.14	1069.35	1003.23	937.12
67.5	1553.56	1466.07	1378.57	1291.07	1203.57	1116.07	1028.57	941.08	880.96	820.84
70.0	1449.51	1360.93	1272.34	1183.75	1095.16	1006.58	917.99	829.40	773.69	717.97
72.5	1259.66	1186.85	1114.03	1041.21	968.40	895.58	822.77	749.95	696.95	643.96
75.0	1131.68	1062.61	993.54	924.48	855.41	786.34	717.27	648.20	600.82	553.45
77.5	983.90	928.49	873.07	817.65	762.23	706.81	651.39	595.98	549.31	502.64
80.0	863.45	826.51	789.58	752.65	715.72	678.78	641.85	604.92	553.52	502.12
82.5	982.07	929.41	876.76	824.10	771.45	718.79	666.14	613.49	557.90	502.31
85.0	1003.57	950.80	898.03	845.26	792.49	739.72	686.95	634.18	574.40	514.62
87.5	1087.03	1027.28	967.53	907.78	848.03	788.28	728.53	668.78	604.74	540.69
90.0	1179.25	1106.95	1034.65	962.36	890.06	817.76	745.46	673.16	609.11	545.06
92.5	1177.22	1101.47	1025.71	949.95	874.19	798.43	722.67	646.92	587.18	527.44
95.0	1135.24	1058.37	981.51	904.64	827.78	750.91	674.05	597.18	544.42	491.65
97.5	1053.92	978.99	904.06	829.14	754.21	679.28	604.35	529.43	484.84	440.25
100.0	988.38	912.58	836.79	760.99	685.20	609.40	533.61	457.81	421.06	384.32
102.5	910.73	837.06	763.39	689.72	616.06	542.39	468.72	395.05	364.75	334.44
105.0	831.79	761.71	691.64	621.56	551.49	481.41	411.34	341.26	316.47	291.68
107.5	753.07	689.20	625.33	561.46	497.59	433.71	369.84	305.97	284.48	262.99
110.0	690.70	632.09	573.49	514.88	456.28	397.67	339.07	280.46	261.07	241.67
112.5	621.26	569.51	517.77	466.03	414.28	362.54	310.79	259.05	241.19	223.33
115.0	558.26	512.49	466.72	420.94	375.17	329.40	283.63	237.86	221.41	204.96
117.5	500.74	460.83	420.91	381.00	341.09	301.17	261.26	221.35	205.78	190.22
120.0	435.59	402.73	369.88	337.02	304.17	271.31	238.46	205.60	190.87	176.15
122.5	384.49	356.45	328.41	300.37	272.33	244.29	216.25	188.21	174.60	161.00
125.0	343.36	318.22	293.07	267.92	242.77	217.63	192.48	167.33	155.28	143.23
127.5	296.91	276.00	255.09	234.18	213.28	192.37	171.46	150.55	139.56	128.58
130.0	269.89	250.44	230.98	211.53	192.07	172.62	153.16	133.71	123.83	113.96
132.5	249.45	230.65	211.85	193.05	174.25	155.45	136.65	117.85	109.16	100.47
135.0	225.02	207.28	189.54	171.81	154.07	136.33	118.59	100.85	93.57	86.29
137.5	211.11	193.11	175.12	157.12	139.13	121.13	103.14	85.14	79.17	73.20
140.0	192.21	174.80	157.38	139.97	122.55	105.14	87.72	70.31	65.56	60.80
142.5	168.20	152.02	135.84	119.66	103.48	87.30	71.12	54.94	51.47	48.00
145.0	146.16	131.18	116.21	101.24	86.27	71.29	56.32	41.35	39.03	36.70
147.5	123.93	110.03	96.14	82.25	68.36	54.46	40.57	26.68	25.68	24.69
150.0	102.91	91.12	79.32	67.53	55.73	43.94	32.14	20.35	19.80	19.25
152.5	80.31	71.18	62.04	52.91	43.78	34.65	25.52	16.39	16.05	15.71
155.0	58.32	51.83	45.35	38.87	32.39	25.90	19.42	12.94	12.80	12.66
157.5	37.11	33.20	29.29	25.38	21.47	17.56	13.65	9.74	9.76	9.78
160.0	18.90	17.25	15.60	13.96	12.31	10.66	9.02	7.37	7.50	7.63
162.5	6.23	6.22	6.20	6.19	6.18	6.16	6.15	6.14	6.33	6.52
165.0	5.87	5.84	5.82	5.79	5.77	5.74	5.72	5.69	6.02	6.36

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CANDELA TABULATION - (Cont.)

167.5	5.92	5.93	5.93	5.93	5.93	5.94	5.94	5.94	6.38	6.83
170.0	6.29	6.39	6.50	6.60	6.71	6.81	6.92	7.02	7.38	7.74
172.5	6.91	6.99	7.07	7.15	7.23	7.31	7.39	7.47	7.79	8.10
175.0	7.58	7.57	7.56	7.56	7.55	7.54	7.54	7.53	7.84	8.15
177.5	7.91	7.87	7.83	7.79	7.76	7.72	7.68	7.64	7.93	8.22
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles	Horizontal Angles									
	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2117.16	2113.20	2109.24	2105.28	2101.32	2097.36	2093.40	2089.20	2085.00	2080.80
5.0	2106.53	2095.57	2084.61	2073.65	2062.70	2051.74	2040.78	2031.98	2023.18	2014.37
7.5	2144.99	2134.24	2123.48	2112.73	2101.97	2091.22	2080.46	2059.76	2039.07	2018.37
10.0	2148.86	2130.13	2111.39	2092.66	2073.93	2055.20	2036.47	2010.89	1985.30	1959.72
12.5	2201.32	2164.90	2128.49	2092.07	2055.66	2019.24	1982.83	1953.41	1923.99	1894.58
15.0	2255.26	2211.45	2167.65	2123.84	2080.03	2036.23	1992.42	1954.67	1916.92	1879.16
17.5	2207.09	2157.12	2107.15	2057.18	2007.21	1957.24	1907.27	1867.07	1826.87	1786.67
20.0	2221.46	2164.36	2107.26	2050.16	1993.07	1935.97	1878.87	1833.19	1787.51	1741.82
22.5	2172.33	2106.90	2041.47	1976.04	1910.60	1845.17	1779.74	1733.05	1686.36	1639.67
25.0	2068.56	2013.03	1957.50	1901.97	1846.43	1790.90	1735.37	1681.43	1627.49	1573.56
27.5	2034.35	1974.88	1915.41	1855.94	1796.48	1737.01	1677.54	1621.03	1564.52	1508.01
30.0	2022.26	1953.36	1884.45	1815.55	1746.65	1677.74	1608.84	1550.20	1491.56	1432.92
32.5	1985.57	1907.31	1829.05	1750.79	1672.54	1594.28	1516.02	1457.81	1399.61	1341.40
35.0	1891.39	1816.10	1740.81	1665.52	1590.22	1514.93	1439.64	1379.40	1319.15	1258.91
37.5	1807.38	1731.93	1656.47	1581.01	1505.56	1430.10	1354.65	1296.04	1237.43	1178.82
40.0	1728.44	1654.34	1580.25	1506.15	1432.05	1357.95	1283.85	1225.30	1166.75	1108.20
42.5	1671.36	1591.14	1510.92	1430.70	1350.48	1270.26	1190.04	1133.96	1077.88	1021.80
45.0	1590.72	1508.88	1427.04	1345.20	1263.36	1181.52	1099.68	1047.17	994.66	942.16
47.5	1517.31	1436.34	1355.37	1274.40	1193.43	1112.46	1031.49	979.65	927.80	875.96
50.0	1445.17	1364.66	1284.15	1203.64	1123.12	1042.61	962.10	910.69	859.27	807.86
52.5	1365.91	1286.34	1206.77	1127.20	1047.64	968.07	888.50	839.15	789.80	740.45
55.0	1270.86	1194.32	1117.78	1041.24	964.70	888.16	811.62	765.23	718.85	672.46
57.5	1154.96	1082.87	1010.77	938.68	866.58	794.49	722.39	680.70	639.00	597.31
60.0	1053.20	983.71	914.22	844.73	775.23	705.74	636.25	599.52	562.80	526.07
62.5	966.63	898.92	831.22	763.51	695.80	628.10	560.39	527.96	495.52	463.09
65.0	871.00	804.88	738.77	672.65	606.53	540.42	474.30	447.21	420.12	393.03
67.5	760.72	700.60	640.49	580.37	520.25	460.13	400.02	377.18	354.35	331.52
70.0	662.26	606.55	550.83	495.12	439.41	383.69	327.98	309.53	291.08	272.63
72.5	590.96	537.96	484.97	431.97	378.97	325.98	272.98	257.77	242.57	227.36
75.0	506.07	458.70	411.32	363.95	316.57	269.20	221.82	209.87	197.91	185.96
77.5	455.97	409.30	362.64	315.97	269.30	222.63	175.97	166.89	157.82	148.75
80.0	450.72	399.32	347.93	296.53	245.13	193.73	142.33	135.16	127.98	120.81
82.5	446.73	391.14	335.55	279.97	224.38	168.80	113.21	107.86	102.50	97.15
85.0	454.84	395.06	335.28	275.50	215.72	155.94	96.16	91.96	87.75	83.55
87.5	476.65	412.61	348.57	284.52	220.48	156.44	92.40	89.07	85.75	82.42
90.0	481.01	416.96	352.92	288.87	224.82	160.77	96.72	93.57	90.42	87.27
92.5	467.70	407.96	348.22	288.48	228.74	169.00	109.26	105.56	101.87	98.17
95.0	438.89	386.12	333.36	280.59	227.83	175.06	122.30	117.55	112.80	108.05
97.5	395.66	351.07	306.49	261.90	217.31	172.72	128.14	122.42	116.70	110.98
100.0	347.57	310.82	274.08	237.33	200.58	163.84	127.09	120.83	114.57	108.31
102.5	304.14	273.83	243.53	213.22	182.92	152.61	122.31	115.94	109.57	103.20
105.0	266.88	242.09	217.30	192.51	167.71	142.92	118.13	111.54	104.95	98.37
107.5	241.51	220.02	198.53	177.04	155.55	134.06	112.58	105.94	99.30	92.66
110.0	222.28	202.89	183.49	164.10	144.71	125.31	105.92	99.44	92.96	86.48
112.5	205.47	187.60	169.74	151.88	134.02	116.16	98.30	92.12	85.95	79.78

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CANDELA TABULATION - (Cont.)

115.0	188.51	172.06	155.60	139.15	122.70	106.25	89.80	84.08	78.36	72.63
117.5	174.66	159.09	143.53	127.97	112.41	96.84	81.28	76.08	70.87	65.67
120.0	161.42	146.70	131.97	117.25	102.52	87.80	73.07	68.40	63.72	59.05
122.5	147.40	133.79	120.19	106.59	92.98	79.38	65.78	61.58	57.39	53.20
125.0	131.18	119.13	107.09	95.04	82.99	70.94	58.89	55.17	51.44	47.72
127.5	117.59	106.61	95.62	84.63	73.65	62.66	51.68	48.44	45.21	41.98
130.0	104.08	94.20	84.33	74.45	64.57	54.70	44.82	42.15	39.48	36.80
132.5	91.78	83.09	74.40	65.71	57.02	48.33	39.65	37.36	35.08	32.80
135.0	79.01	71.73	64.44	57.16	49.88	42.60	35.32	33.34	31.36	29.39
137.5	67.23	61.26	55.28	49.31	43.34	37.37	31.40	29.73	28.05	26.38
140.0	56.05	51.29	46.54	41.78	37.03	32.27	27.52	26.15	24.78	23.41
142.5	44.54	41.07	37.60	34.13	30.67	27.20	23.73	22.65	21.57	20.49
145.0	34.38	32.06	29.73	27.41	25.09	22.76	20.44	19.65	18.86	18.07
147.5	23.69	22.70	21.70	20.70	19.71	18.71	17.72	17.12	16.53	15.93
150.0	18.70	18.15	17.60	17.05	16.50	15.95	15.40	14.96	14.52	14.09
152.5	15.38	15.04	14.70	14.37	14.03	13.69	13.36	13.04	12.73	12.41
155.0	12.52	12.38	12.24	12.10	11.96	11.82	11.68	11.46	11.25	11.03
157.5	9.80	9.82	9.84	9.87	9.89	9.91	9.93	9.78	9.63	9.48
160.0	7.76	7.89	8.03	8.16	8.29	8.42	8.55	8.45	8.34	8.24
162.5	6.71	6.90	7.09	7.28	7.47	7.66	7.85	7.82	7.80	7.77
165.0	6.69	7.02	7.36	7.69	8.02	8.36	8.69	8.69	8.68	8.68
167.5	7.27	7.72	8.16	8.60	9.05	9.49	9.94	9.94	9.95	9.95
170.0	8.10	8.46	8.82	9.18	9.54	9.90	10.26	10.26	10.26	10.26
172.5	8.42	8.74	9.05	9.37	9.69	10.00	10.32	10.31	10.30	10.30
175.0	8.46	8.77	9.08	9.39	9.70	10.01	10.32	10.31	10.30	10.30
177.5	8.51	8.80	9.10	9.39	9.68	9.97	10.26	10.26	10.26	10.27
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles Horizontal Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2076.59	2072.39	2068.19	2063.99	2059.79	2055.59	2049.28	2042.97	2036.66	2030.35
5.0	2005.57	1996.77	1987.97	1979.16	1970.36	1961.56	1949.88	1938.19	1926.51	1914.83
7.5	1997.68	1976.98	1956.29	1935.59	1914.90	1894.20	1876.01	1857.82	1839.63	1821.44
10.0	1934.14	1908.55	1882.97	1857.39	1831.80	1806.22	1787.77	1769.33	1750.88	1732.43
12.5	1865.16	1835.75	1806.33	1776.92	1747.50	1718.09	1694.76	1671.44	1648.12	1624.79
15.0	1841.41	1803.66	1765.91	1728.15	1690.40	1652.65	1623.17	1593.68	1564.20	1534.72
17.5	1746.47	1706.27	1666.07	1625.87	1585.67	1545.47	1515.93	1486.39	1456.85	1427.31
20.0	1696.14	1650.46	1604.78	1559.09	1513.41	1467.73	1434.41	1401.09	1367.78	1334.46
22.5	1592.98	1546.29	1499.60	1452.91	1406.22	1359.53	1324.91	1290.29	1255.67	1221.05
25.0	1519.62	1465.68	1411.74	1357.81	1303.87	1249.93	1214.26	1178.59	1142.93	1107.26
27.5	1451.50	1394.99	1338.48	1281.97	1225.46	1168.95	1132.31	1095.67	1059.03	1022.39
30.0	1374.28	1315.64	1257.00	1198.36	1139.72	1081.08	1045.23	1009.38	973.52	937.67
32.5	1283.20	1224.99	1166.78	1108.58	1050.37	992.17	959.47	926.78	894.08	861.39
35.0	1198.66	1138.42	1078.17	1017.93	957.68	897.44	870.35	843.26	816.16	789.07
37.5	1120.21	1061.60	1002.99	944.38	885.77	827.16	802.24	777.33	752.41	727.50
40.0	1049.65	991.09	932.54	873.99	815.44	756.89	734.33	711.77	689.21	666.65
42.5	965.72	909.64	853.56	797.48	741.40	685.32	665.57	645.82	626.08	606.33
45.0	889.65	837.14	784.63	732.13	679.62	627.11	609.97	592.83	575.68	558.54
47.5	824.11	772.27	720.43	668.58	616.74	564.90	549.55	534.20	518.86	503.51
50.0	756.44	705.03	653.61	602.20	550.78	499.37	487.11	474.85	462.59	450.33
52.5	691.09	641.74	592.39	543.04	493.69	444.34	433.65	422.96	412.28	401.59
55.0	626.07	579.69	533.30	486.91	440.53	394.14	384.73	375.32	365.91	356.50
57.5	555.61	513.92	472.22	430.53	388.83	347.13	339.82	332.50	325.19	317.87
60.0	489.34	452.62	415.89	379.16	342.44	305.71	300.11	294.52	288.92	283.33

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CANDELA TABULATION - (Cont.)

62.5	430.66	398.23	365.79	333.36	300.93	268.50	263.78	259.07	254.35	249.64
65.0	365.94	338.84	311.75	284.66	257.57	230.48	226.88	223.28	219.67	216.07
67.5	308.69	285.86	263.03	240.20	217.37	194.54	191.87	189.20	186.54	183.87
70.0	254.18	235.74	217.29	198.84	180.39	161.94	159.76	157.58	155.41	153.23
72.5	212.16	196.95	181.75	166.54	151.34	136.13	133.93	131.73	129.54	127.34
75.0	174.01	162.05	150.10	138.15	126.19	114.24	111.74	109.25	106.75	104.25
77.5	139.68	130.61	121.54	112.47	103.40	94.33	91.15	87.97	84.80	81.62
80.0	113.63	106.46	99.28	92.11	84.93	77.76	73.51	69.25	65.00	60.75
82.5	91.79	86.44	81.08	75.73	70.37	65.02	60.25	55.48	50.71	45.94
85.0	79.34	75.14	70.93	66.73	62.52	58.32	53.81	49.31	44.80	40.29
87.5	79.10	75.77	72.45	69.12	65.80	62.48	57.65	52.82	47.99	43.17
90.0	84.12	80.98	77.83	74.68	71.53	68.38	63.00	57.62	52.24	46.86
92.5	94.48	90.78	87.08	83.39	79.69	76.00	70.11	64.24	58.36	52.48
95.0	103.30	98.54	93.79	89.04	84.29	79.54	73.49	67.44	61.40	55.35
97.5	105.26	99.55	93.83	88.11	82.39	76.68	70.81	64.94	59.07	53.20
100.0	102.05	95.79	89.53	83.27	77.01	70.75	65.35	59.94	54.54	49.14
102.5	96.83	90.46	84.09	77.72	71.35	64.98	60.02	55.06	50.11	45.15
105.0	91.78	85.19	78.60	72.02	65.43	58.84	54.49	50.14	45.79	41.44
107.5	86.02	79.39	72.75	66.11	59.47	52.84	49.03	45.23	41.43	37.63
110.0	80.00	73.51	67.03	60.55	54.07	47.59	44.23	40.87	37.51	34.15
112.5	73.61	67.44	61.27	55.10	48.93	42.76	39.81	36.87	33.92	30.98
115.0	66.91	61.19	55.47	49.74	44.02	38.30	35.73	33.16	30.58	28.01
117.5	60.47	55.27	50.06	44.86	39.66	34.46	32.18	29.91	27.64	25.37
120.0	54.38	49.70	45.03	40.36	35.68	31.01	29.02	27.03	25.04	23.05
122.5	49.00	44.81	40.62	36.43	32.23	28.04	26.33	24.61	22.90	21.18
125.0	44.00	40.27	36.55	32.83	29.10	25.38	23.91	22.43	20.96	19.48
127.5	38.75	35.52	32.29	29.06	25.83	22.60	21.39	20.18	18.97	17.76
130.0	34.13	31.46	28.79	26.11	23.44	20.77	19.69	18.61	17.53	16.45
132.5	30.51	28.23	25.95	23.66	21.38	19.10	18.11	17.13	16.15	15.17
135.0	27.41	25.43	23.45	21.48	19.50	17.52	16.66	15.80	14.94	14.08
137.5	24.70	23.03	21.36	19.68	18.01	16.34	15.56	14.78	14.01	13.23
140.0	22.04	20.68	19.31	17.94	16.57	15.20	14.54	13.88	13.21	12.55
142.5	19.40	18.32	17.24	16.16	15.08	14.00	13.44	12.88	12.32	11.76
145.0	17.28	16.49	15.70	14.91	14.12	13.33	12.84	12.35	11.86	11.37
147.5	15.34	14.74	14.15	13.55	12.96	12.37	12.00	11.63	11.26	10.89
150.0	13.65	13.21	12.77	12.34	11.90	11.46	11.21	10.95	10.70	10.45
152.5	12.10	11.78	11.47	11.15	10.84	10.53	10.38	10.23	10.08	9.93
155.0	10.82	10.60	10.39	10.17	9.96	9.74	9.67	9.60	9.53	9.46
157.5	9.33	9.19	9.04	8.89	8.74	8.59	8.61	8.63	8.65	8.67
160.0	8.13	8.03	7.92	7.82	7.71	7.61	7.74	7.86	7.99	8.11
162.5	7.74	7.72	7.69	7.66	7.64	7.61	7.75	7.88	8.02	8.15
165.0	8.68	8.67	8.67	8.67	8.66	8.66	8.72	8.78	8.84	8.90
167.5	9.96	9.96	9.97	9.97	9.98	9.98	10.01	10.05	10.08	10.12
170.0	10.26	10.25	10.25	10.25	10.25	10.25	10.29	10.33	10.37	10.41
172.5	10.29	10.28	10.27	10.27	10.26	10.25	10.27	10.28	10.30	10.31
175.0	10.29	10.28	10.27	10.27	10.26	10.25	10.25	10.26	10.26	10.27
177.5	10.27	10.27	10.27	10.28	10.28	10.28	10.28	10.28	10.27	10.27
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles **Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2024.05	2017.74	2011.43	2005.12	1998.82	1991.51	1984.20	1976.89	1969.58	1962.28
5.0	1903.14	1891.46	1879.78	1868.09	1856.41	1850.25	1844.08	1837.92	1831.76	1825.59
7.5	1803.25	1785.06	1766.87	1748.68	1730.50	1723.62	1716.75	1709.88	1703.00	1696.13

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CANDELA TABULATION - (Cont.)

10.0	1713.99	1695.54	1677.09	1658.65	1640.20	1626.47	1612.74	1599.01	1585.28	1571.55
12.5	1601.47	1578.15	1554.83	1531.50	1508.18	1490.74	1473.29	1455.85	1438.40	1420.96
15.0	1505.23	1475.75	1446.27	1416.78	1387.30	1369.90	1352.50	1335.09	1317.69	1300.29
17.5	1397.76	1368.22	1338.68	1309.14	1279.60	1259.34	1239.07	1218.81	1198.54	1178.28
20.0	1301.14	1267.82	1234.51	1201.19	1167.87	1145.02	1122.16	1099.31	1076.46	1053.60
22.5	1186.42	1151.80	1117.18	1082.56	1047.94	1026.18	1004.41	982.65	960.88	939.12
25.0	1071.59	1035.92	1000.26	964.59	928.92	911.90	894.89	877.87	860.86	843.84
27.5	985.75	949.11	912.47	875.83	839.20	825.51	811.83	798.15	784.47	770.78
30.0	901.82	865.97	830.11	794.26	758.41	748.12	737.84	727.55	717.26	706.98
32.5	828.69	796.00	763.30	730.61	697.92	691.07	684.23	677.39	670.54	663.70
35.0	761.98	734.89	707.79	680.70	653.61	648.18	642.75	637.32	631.89	626.46
37.5	702.58	677.67	652.75	627.84	602.92	599.08	595.25	591.41	587.58	583.74
40.0	644.08	621.52	598.96	576.40	553.84	549.62	545.40	541.18	536.96	532.73
42.5	586.58	566.83	547.08	527.33	507.59	503.21	498.83	494.45	490.07	485.69
45.0	541.40	524.26	507.11	489.97	472.83	467.33	461.84	456.34	450.85	445.35
47.5	488.17	472.82	457.48	442.13	426.79	420.98	415.17	409.37	403.56	397.75
50.0	438.06	425.80	413.54	401.28	389.02	382.50	375.99	369.47	362.95	356.44
52.5	390.91	380.22	369.54	358.85	348.17	341.43	334.70	327.97	321.23	314.50
55.0	347.10	337.69	328.28	318.87	309.46	303.65	297.83	292.02	286.21	280.39
57.5	310.56	303.24	295.93	288.61	281.30	276.01	270.73	265.44	260.16	254.87
60.0	277.73	272.14	266.54	260.95	255.35	249.95	244.55	239.15	233.75	228.35
62.5	244.93	240.21	235.50	230.78	226.07	220.74	215.40	210.07	204.73	199.40
65.0	212.47	208.87	205.26	201.66	198.06	192.74	187.42	182.10	176.78	171.47
67.5	181.20	178.53	175.86	173.19	170.53	165.28	160.03	154.78	149.54	144.29
70.0	151.05	148.87	146.70	144.52	142.34	137.45	132.56	127.66	122.77	117.88
72.5	125.14	122.94	120.75	118.55	116.35	112.10	107.85	103.60	99.35	95.11
75.0	101.76	99.26	96.76	94.27	91.77	88.28	84.80	81.31	77.83	74.34
77.5	78.44	75.27	72.09	68.92	65.74	62.95	60.16	57.37	54.58	51.80
80.0	56.49	52.24	47.99	43.73	39.48	37.17	34.86	32.55	30.24	27.94
82.5	41.17	36.41	31.64	26.87	22.10	21.28	20.46	19.64	18.82	18.00
85.0	35.79	31.28	26.77	22.27	17.76	17.34	16.92	16.50	16.08	15.67
87.5	38.34	33.51	28.68	23.86	19.03	18.07	17.10	16.14	15.18	14.21
90.0	41.49	36.11	30.73	25.35	19.97	18.54	17.10	15.67	14.24	12.80
92.5	46.60	40.72	34.84	28.96	23.08	21.65	20.22	18.80	17.37	15.94
95.0	49.30	43.25	37.21	31.16	25.11	23.65	22.19	20.72	19.26	17.80
97.5	47.33	41.47	35.60	29.73	23.86	22.52	21.19	19.85	18.52	17.18
100.0	43.73	38.33	32.93	27.52	22.12	20.93	19.75	18.56	17.38	16.19
102.5	40.19	35.23	30.27	25.31	20.36	19.36	18.36	17.37	16.37	15.37
105.0	37.09	32.74	28.39	24.04	19.69	18.77	17.85	16.92	16.00	15.08
107.5	33.83	30.03	26.23	22.43	18.63	17.88	17.13	16.38	15.63	14.88
110.0	30.80	27.44	24.08	20.72	17.36	16.89	16.42	15.95	15.48	15.01
112.5	28.03	25.09	22.14	19.20	16.25	16.00	15.76	15.51	15.26	15.01
115.0	25.44	22.87	20.29	17.72	15.15	14.90	14.65	14.40	14.15	13.89
117.5	23.10	20.83	18.56	16.29	14.02	13.89	13.76	13.63	13.50	13.38
120.0	21.07	19.08	17.09	15.10	13.11	13.08	13.05	13.02	12.99	12.95
122.5	19.47	17.75	16.04	14.32	12.61	12.59	12.58	12.56	12.55	12.53
125.0	18.01	16.53	15.06	13.58	12.11	12.08	12.06	12.03	12.01	11.98
127.5	16.56	15.35	14.14	12.93	11.73	11.60	11.48	11.36	11.24	11.12
130.0	15.37	14.29	13.21	12.13	11.05	10.93	10.82	10.70	10.58	10.47
132.5	14.19	13.21	12.22	11.24	10.26	10.26	10.25	10.25	10.25	10.24
135.0	13.23	12.37	11.51	10.65	9.79	9.83	9.87	9.92	9.96	10.00
137.5	12.45	11.68	10.90	10.12	9.35	9.43	9.51	9.59	9.68	9.76
140.0	11.89	11.23	10.56	9.90	9.24	9.37	9.51	9.64	9.78	9.91
142.5	11.20	10.64	10.08	9.52	8.96	9.11	9.27	9.43	9.59	9.75
145.0	10.87	10.38	9.89	9.40	8.91	9.06	9.20	9.35	9.49	9.64
147.5	10.52	10.16	9.79	9.42	9.05	9.15	9.25	9.36	9.46	9.56

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CANDELA TABULATION - (Cont.)

150.0	10.19	9.94	9.69	9.43	9.18	9.17	9.15	9.14	9.13	9.11
152.5	9.78	9.63	9.48	9.33	9.18	9.13	9.08	9.04	8.99	8.94
155.0	9.40	9.33	9.26	9.19	9.12	9.12	9.12	9.12	9.12	9.11
157.5	8.69	8.71	8.73	8.75	8.77	8.81	8.86	8.91	8.96	9.00
160.0	8.24	8.36	8.49	8.61	8.74	8.79	8.84	8.88	8.93	8.98
162.5	8.29	8.42	8.56	8.69	8.83	8.85	8.88	8.91	8.94	8.97
165.0	8.95	9.01	9.07	9.13	9.19	9.23	9.27	9.32	9.36	9.40
167.5	10.15	10.19	10.22	10.26	10.29	10.37	10.44	10.52	10.60	10.67
170.0	10.46	10.50	10.54	10.58	10.62	10.71	10.80	10.90	10.99	11.08
172.5	10.33	10.35	10.36	10.38	10.40	10.48	10.57	10.65	10.74	10.82
175.0	10.27	10.28	10.28	10.29	10.29	10.39	10.49	10.58	10.68	10.78
177.5	10.27	10.27	10.26	10.26	10.26	10.29	10.33	10.36	10.39	10.42
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	1954.97	1947.66	1940.35	1933.05	1929.57	1926.09	1922.61	1919.14	1915.66	1912.18
5.0	1819.43	1813.27	1807.10	1800.94	1794.83	1788.72	1782.60	1776.49	1770.38	1764.27
7.5	1689.26	1682.38	1675.51	1668.64	1661.30	1653.96	1646.62	1639.28	1631.94	1624.61
10.0	1557.82	1544.09	1530.36	1516.63	1508.44	1500.26	1492.07	1483.88	1475.70	1467.51
12.5	1403.52	1386.07	1368.63	1351.19	1345.90	1340.61	1335.32	1330.03	1324.74	1319.46
15.0	1282.89	1265.48	1248.08	1230.68	1222.94	1215.21	1207.47	1199.74	1192.00	1184.27
17.5	1158.02	1137.75	1117.49	1097.23	1088.30	1079.37	1070.45	1061.52	1052.60	1043.67
20.0	1030.75	1007.90	985.04	962.19	954.25	946.32	938.38	930.44	922.51	914.57
22.5	917.35	895.59	873.82	852.06	845.41	838.77	832.13	825.48	818.84	812.20
25.0	826.83	809.81	792.80	775.78	770.96	766.14	761.31	756.49	751.67	746.85
27.5	757.10	743.42	729.74	716.06	711.88	707.71	703.54	699.37	695.20	691.03
30.0	696.69	686.40	676.12	665.83	663.19	660.55	657.92	655.28	652.64	650.00
32.5	656.86	650.02	643.17	636.33	634.03	631.74	629.44	627.15	624.85	622.56
35.0	621.03	615.60	610.17	604.74	601.94	599.13	596.33	593.53	590.72	587.92
37.5	579.91	576.07	572.24	568.40	564.36	560.31	556.27	552.22	548.18	544.13
40.0	528.51	524.29	520.07	515.85	510.74	505.62	500.51	495.40	490.28	485.17
42.5	481.31	476.93	472.55	468.17	461.21	454.26	447.30	440.34	433.38	426.43
45.0	439.86	434.36	428.87	423.37	415.63	407.89	400.15	392.41	384.67	376.93
47.5	391.95	386.14	380.34	374.53	369.11	363.70	358.28	352.86	347.45	342.03
50.0	349.92	343.40	336.89	330.37	327.01	323.65	320.29	316.93	313.56	310.20
52.5	307.77	301.04	294.30	287.57	285.67	283.77	281.88	279.98	278.08	276.18
55.0	274.58	268.77	262.95	257.14	254.54	251.94	249.34	246.74	244.13	241.53
57.5	249.58	244.30	239.01	233.72	230.10	226.47	222.84	219.21	215.58	211.95
60.0	222.95	217.55	212.15	206.75	203.37	199.99	196.60	193.22	189.84	186.46
62.5	194.07	188.73	183.40	178.07	175.33	172.60	169.86	167.13	164.39	161.66
65.0	166.15	160.83	155.51	150.19	148.06	145.92	143.79	141.66	139.52	137.39
67.5	139.04	133.79	128.55	123.30	121.72	120.15	118.57	117.00	115.42	113.85
70.0	112.99	108.09	103.20	98.31	97.51	96.71	95.91	95.11	94.32	93.52
72.5	90.86	86.61	82.36	78.11	77.60	77.09	76.58	76.07	75.55	75.04
75.0	70.86	67.37	63.89	60.40	59.87	59.33	58.80	58.26	57.73	57.19
77.5	49.01	46.22	43.43	40.64	39.98	39.32	38.66	38.00	37.34	36.68
80.0	25.63	23.32	21.01	18.70	18.79	18.88	18.97	19.06	19.16	19.25
82.5	17.18	16.36	15.54	14.72	15.27	15.81	16.36	16.90	17.45	17.99
85.0	15.25	14.83	14.41	13.99	14.59	15.19	15.79	16.39	16.99	17.59
87.5	13.25	12.29	11.32	10.36	10.81	11.26	11.71	12.16	12.61	13.06
90.0	11.37	9.94	8.50	7.07	6.94	6.81	6.69	6.56	6.43	6.30
92.5	14.52	13.09	11.66	10.24	9.97	9.71	9.45	9.18	8.92	8.66
95.0	16.34	14.87	13.41	11.95	11.55	11.15	10.76	10.36	9.96	9.56

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CANDELA TABULATION - (Cont.)

97.5	15.84	14.51	13.17	11.84	11.45	11.07	10.69	10.31	9.92	9.54
100.0	15.01	13.82	12.64	11.45	11.18	10.91	10.65	10.38	10.11	9.84
102.5	14.38	13.38	12.39	11.39	11.20	11.02	10.83	10.64	10.45	10.27
105.0	14.16	13.23	12.31	11.39	11.28	11.17	11.05	10.94	10.83	10.72
107.5	14.13	13.38	12.63	11.88	11.86	11.85	11.84	11.83	11.82	11.81
110.0	14.54	14.07	13.60	13.13	13.10	13.08	13.05	13.02	13.00	12.97
112.5	14.77	14.52	14.27	14.03	14.12	14.22	14.32	14.42	14.52	14.62
115.0	13.64	13.39	13.14	12.89	13.17	13.44	13.72	14.00	14.27	14.55
117.5	13.25	13.12	12.99	12.87	13.00	13.14	13.27	13.41	13.54	13.68
120.0	12.92	12.89	12.86	12.83	13.05	13.26	13.48	13.70	13.91	14.13
122.5	12.52	12.50	12.49	12.47	12.72	12.96	13.21	13.46	13.70	13.95
125.0	11.96	11.93	11.91	11.88	12.13	12.37	12.62	12.87	13.11	13.36
127.5	11.00	10.88	10.76	10.64	10.84	11.05	11.25	11.46	11.66	11.86
130.0	10.35	10.23	10.12	10.00	10.02	10.03	10.05	10.07	10.08	10.10
132.5	10.24	10.24	10.23	10.23	10.22	10.21	10.21	10.20	10.19	10.18
135.0	10.04	10.09	10.13	10.17	10.27	10.38	10.48	10.58	10.69	10.79
137.5	9.84	9.92	10.01	10.09	10.21	10.33	10.45	10.56	10.68	10.80
140.0	10.05	10.18	10.32	10.45	10.52	10.59	10.67	10.74	10.81	10.88
142.5	9.91	10.07	10.23	10.39	10.46	10.53	10.61	10.68	10.75	10.82
145.0	9.78	9.93	10.07	10.22	10.24	10.26	10.29	10.31	10.33	10.35
147.5	9.66	9.77	9.87	9.97	9.90	9.84	9.77	9.70	9.63	9.57
150.0	9.10	9.09	9.07	9.06	9.04	9.03	9.01	9.00	8.98	8.97
152.5	8.89	8.85	8.80	8.75	8.77	8.78	8.80	8.81	8.83	8.85
155.0	9.11	9.11	9.11	9.11	9.08	9.04	9.01	8.98	8.94	8.91
157.5	9.05	9.10	9.15	9.20	9.15	9.10	9.06	9.01	8.96	8.92
160.0	9.03	9.07	9.12	9.17	9.09	9.00	8.92	8.84	8.75	8.67
162.5	9.00	9.03	9.06	9.09	9.01	8.93	8.85	8.77	8.69	8.61
165.0	9.44	9.49	9.53	9.57	9.49	9.40	9.32	9.24	9.15	9.07
167.5	10.75	10.83	10.90	10.98	10.88	10.78	10.68	10.57	10.47	10.37
170.0	11.17	11.27	11.36	11.45	11.32	11.19	11.05	10.92	10.79	10.66
172.5	10.91	10.99	11.08	11.17	11.06	10.95	10.85	10.74	10.63	10.53
175.0	10.88	10.97	11.07	11.17	11.06	10.94	10.83	10.72	10.60	10.49
177.5	10.46	10.49	10.52	10.56	10.43	10.30	10.17	10.04	9.91	9.78
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles **Horizontal Angles**

	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	1908.70	1905.23	1901.75	1903.65	1905.56	1907.46	1909.37	1911.27	1913.18	1915.08
5.0	1758.15	1752.04	1745.93	1750.95	1755.97	1760.98	1766.00	1771.02	1776.04	1781.05
7.5	1617.27	1609.93	1602.59	1607.93	1613.28	1618.62	1623.96	1629.31	1634.65	1639.99
10.0	1459.32	1451.14	1442.95	1450.18	1457.41	1464.65	1471.88	1479.11	1486.34	1493.58
12.5	1314.17	1308.88	1303.59	1311.06	1318.52	1325.99	1333.45	1340.92	1348.38	1355.85
15.0	1176.53	1168.80	1161.06	1168.34	1175.62	1182.90	1190.18	1197.45	1204.73	1212.01
17.5	1034.75	1025.82	1016.90	1022.85	1028.80	1034.75	1040.70	1046.65	1052.60	1058.55
20.0	906.63	898.70	890.76	897.34	903.92	910.50	917.08	923.67	930.25	936.83
22.5	805.55	798.91	792.27	799.33	806.40	813.46	820.53	827.59	834.66	841.72
25.0	742.02	737.20	732.38	736.12	739.85	743.59	747.33	751.06	754.80	758.54
27.5	686.86	682.69	678.52	682.65	686.78	690.91	695.04	699.17	703.30	707.43
30.0	647.37	644.73	642.09	645.24	648.40	651.55	654.70	657.86	661.01	664.16
32.5	620.26	617.97	615.67	617.84	620.00	622.17	624.34	626.50	628.67	630.84
35.0	585.12	582.31	579.51	581.13	582.75	584.38	586.00	587.62	589.24	590.87
37.5	540.09	536.04	532.00	534.58	537.17	539.76	542.34	544.93	547.52	550.10
40.0	480.06	474.94	469.83	473.66	477.48	481.31	485.13	488.96	492.78	496.61
42.5	419.47	412.51	405.56	410.38	415.20	420.02	424.84	429.66	434.48	439.30

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CANDELA TABULATION - (Cont.)

45.0	369.19	361.45	353.71	357.91	362.11	366.31	370.51	374.70	378.90	383.10
47.5	336.61	331.20	325.78	327.33	328.88	330.43	331.98	333.54	335.09	336.64
50.0	306.84	303.48	300.12	300.40	300.69	300.97	301.25	301.54	301.82	302.10
52.5	274.29	272.39	270.49	271.29	272.08	272.88	273.68	274.47	275.27	276.07
55.0	238.93	236.33	233.73	236.60	239.47	242.33	245.20	248.07	250.94	253.80
57.5	208.33	204.70	201.07	204.77	208.47	212.16	215.86	219.56	223.26	226.95
60.0	183.07	179.69	176.31	179.00	181.69	184.38	187.07	189.77	192.46	195.15
62.5	158.92	156.19	153.45	154.99	156.52	158.06	159.59	161.13	162.66	164.20
65.0	135.26	133.12	130.99	132.14	133.29	134.44	135.59	136.73	137.88	139.03
67.5	112.27	110.70	109.12	110.55	111.98	113.41	114.83	116.26	117.69	119.12
70.0	92.72	91.92	91.12	92.37	93.63	94.88	96.14	97.39	98.65	99.90
72.5	74.53	74.02	73.51	74.11	74.72	75.32	75.93	76.53	77.14	77.74
75.0	56.66	56.12	55.59	55.74	55.89	56.04	56.19	56.34	56.49	56.64
77.5	36.02	35.36	34.70	35.12	35.54	35.96	36.39	36.81	37.23	37.65
80.0	19.34	19.43	19.52	19.16	18.80	18.44	18.08	17.72	17.36	17.00
82.5	18.54	19.08	19.63	18.88	18.14	17.40	16.66	15.92	15.18	14.43
85.0	18.19	18.79	19.39	18.61	17.83	17.06	16.28	15.50	14.72	13.95
87.5	13.51	13.96	14.41	13.86	13.30	12.75	12.20	11.65	11.09	10.54
90.0	6.18	6.05	5.92	6.10	6.28	6.46	6.64	6.82	7.00	7.18
92.5	8.40	8.13	7.87	8.16	8.44	8.73	9.02	9.30	9.59	9.88
95.0	9.17	8.77	8.37	8.78	9.19	9.60	10.01	10.42	10.83	11.24
97.5	9.16	8.78	8.40	8.79	9.19	9.59	9.99	10.38	10.78	11.18
100.0	9.58	9.31	9.04	9.34	9.65	9.95	10.26	10.56	10.87	11.17
102.5	10.08	9.89	9.71	9.90	10.10	10.30	10.50	10.70	10.90	11.10
105.0	10.60	10.49	10.38	10.50	10.62	10.74	10.86	10.97	11.09	11.21
107.5	11.80	11.79	11.78	11.76	11.74	11.72	11.70	11.69	11.67	11.65
110.0	12.94	12.92	12.89	12.80	12.71	12.62	12.53	12.43	12.34	12.25
112.5	14.72	14.82	14.92	14.74	14.56	14.39	14.21	14.04	13.86	13.69
115.0	14.83	15.10	15.38	15.13	14.88	14.63	14.38	14.12	13.87	13.62
117.5	13.81	13.95	14.09	13.98	13.88	13.77	13.67	13.56	13.46	13.35
120.0	14.35	14.56	14.78	14.58	14.37	14.17	13.97	13.76	13.56	13.36
122.5	14.20	14.44	14.69	14.45	14.21	13.97	13.73	13.49	13.25	13.01
125.0	13.61	13.85	14.10	13.82	13.53	13.25	12.97	12.68	12.40	12.12
127.5	12.07	12.27	12.48	12.19	11.90	11.61	11.32	11.03	10.74	10.45
130.0	10.12	10.13	10.15	10.03	9.92	9.80	9.69	9.57	9.46	9.34
132.5	10.18	10.17	10.16	10.06	9.96	9.86	9.76	9.67	9.57	9.47
135.0	10.89	11.00	11.10	10.90	10.69	10.49	10.29	10.08	9.88	9.68
137.5	10.92	11.04	11.16	10.96	10.77	10.57	10.38	10.19	9.99	9.80
140.0	10.96	11.03	11.10	10.97	10.84	10.71	10.58	10.46	10.33	10.20
142.5	10.89	10.96	11.04	10.91	10.78	10.66	10.53	10.41	10.28	10.16
145.0	10.38	10.40	10.42	10.28	10.15	10.01	9.88	9.74	9.61	9.47
147.5	9.50	9.43	9.37	9.23	9.09	8.96	8.82	8.69	8.55	8.42
150.0	8.95	8.94	8.92	8.81	8.70	8.59	8.48	8.37	8.26	8.15
152.5	8.86	8.88	8.90	8.79	8.68	8.57	8.47	8.36	8.25	8.14
155.0	8.88	8.84	8.81	8.71	8.61	8.52	8.42	8.32	8.22	8.13
157.5	8.87	8.83	8.78	8.69	8.59	8.50	8.40	8.31	8.21	8.12
160.0	8.59	8.50	8.42	8.37	8.31	8.26	8.20	8.15	8.09	8.04
162.5	8.53	8.45	8.37	8.32	8.27	8.22	8.17	8.12	8.08	8.03
165.0	8.99	8.90	8.82	8.77	8.71	8.66	8.60	8.55	8.49	8.44
167.5	10.27	10.17	10.07	10.04	10.01	9.99	9.96	9.93	9.91	9.88
170.0	10.52	10.39	10.26	10.21	10.16	10.11	10.06	10.02	9.97	9.92
172.5	10.42	10.32	10.21	10.13	10.04	9.96	9.88	9.79	9.71	9.63
175.0	10.38	10.26	10.15	10.06	9.97	9.87	9.78	9.69	9.60	9.50
177.5	9.65	9.52	9.40	9.34	9.28	9.22	9.16	9.11	9.05	8.99
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	1916.99	1918.89	1925.17	1931.45	1937.73	1944.01	1950.29	1956.57	1962.85	1969.13
5.0	1786.07	1791.09	1798.78	1806.46	1814.15	1821.83	1829.52	1837.20	1844.89	1852.57
7.5	1645.34	1650.68	1660.88	1671.09	1681.29	1691.49	1701.69	1711.90	1722.10	1732.30
10.0	1500.81	1508.04	1518.15	1528.26	1538.37	1548.48	1558.59	1568.70	1578.81	1588.92
12.5	1363.31	1370.78	1386.63	1402.48	1418.33	1434.18	1450.03	1465.88	1481.73	1497.58
15.0	1219.29	1226.57	1243.91	1261.26	1278.60	1295.94	1313.29	1330.63	1347.97	1365.32
17.5	1064.50	1070.45	1094.96	1119.46	1143.97	1168.48	1192.99	1217.49	1242.00	1266.51
20.0	943.41	949.99	971.07	992.16	1013.24	1034.33	1055.41	1076.50	1097.58	1118.67
22.5	848.79	855.85	874.58	893.30	912.03	930.76	949.48	968.21	986.94	1005.66
25.0	762.27	766.01	782.79	799.57	816.36	833.14	849.92	866.70	883.49	900.27
27.5	711.56	715.69	727.61	739.52	751.44	763.35	775.27	787.19	799.10	811.02
30.0	667.32	670.47	679.71	688.95	698.19	707.43	716.68	725.92	735.16	744.40
32.5	633.00	635.17	641.93	648.70	655.46	662.22	668.99	675.75	682.51	689.28
35.0	592.49	594.11	599.62	605.13	610.63	616.14	621.65	627.16	632.66	638.17
37.5	552.69	555.28	559.51	563.75	567.99	572.23	576.47	580.71	584.95	589.19
40.0	500.43	504.26	508.43	512.61	516.78	520.96	525.13	529.31	533.48	537.66
42.5	444.12	448.94	454.62	460.31	465.99	471.68	477.36	483.04	488.73	494.41
45.0	387.30	391.50	398.99	406.49	413.98	421.48	428.97	436.47	443.96	451.46
47.5	338.19	339.74	348.97	358.20	367.43	376.66	385.90	395.13	404.36	413.59
50.0	302.39	302.67	311.59	320.51	329.42	338.34	347.26	356.18	365.09	374.01
52.5	276.86	277.66	284.69	291.73	298.76	305.80	312.83	319.86	326.90	333.93
55.0	256.67	259.54	264.38	269.22	274.06	278.90	283.74	288.58	293.42	298.26
57.5	230.65	234.35	238.32	242.28	246.25	250.22	254.18	258.15	262.12	266.08
60.0	197.84	200.53	205.03	209.53	214.03	218.53	223.02	227.52	232.02	236.52
62.5	165.73	167.27	172.41	177.55	182.69	187.84	192.98	198.12	203.26	208.41
65.0	140.18	141.33	146.60	151.86	157.13	162.39	167.66	172.92	178.19	183.45
67.5	120.55	121.98	126.85	131.72	136.60	141.47	146.34	151.22	156.09	160.97
70.0	101.16	102.41	106.96	111.52	116.07	120.62	125.18	129.73	134.28	138.84
72.5	78.35	78.95	83.48	88.00	92.53	97.05	101.58	106.11	110.63	115.16
75.0	56.79	56.94	60.80	64.67	68.53	72.39	76.26	80.12	83.98	87.85
77.5	38.08	38.50	41.12	43.75	46.37	48.99	51.62	54.24	56.86	59.49
80.0	16.64	16.28	18.92	21.56	24.20	26.84	29.49	32.13	34.77	37.41
82.5	13.69	12.95	14.17	15.38	16.60	17.81	19.03	20.24	21.46	22.67
85.0	13.17	12.39	13.25	14.11	14.97	15.83	16.68	17.54	18.40	19.26
87.5	9.99	9.44	10.74	12.04	13.34	14.64	15.94	17.25	18.55	19.85
90.0	7.36	7.54	9.20	10.87	12.53	14.20	15.86	17.53	19.19	20.86
92.5	10.16	10.45	12.11	13.76	15.42	17.07	18.73	20.38	22.04	23.69
95.0	11.65	12.06	13.69	15.33	16.96	18.59	20.23	21.86	23.49	25.13
97.5	11.58	11.98	13.38	14.79	16.20	17.61	19.02	20.43	21.84	23.25
100.0	11.48	11.78	12.96	14.14	15.32	16.50	17.68	18.86	20.04	21.22
102.5	11.30	11.50	12.47	13.44	14.42	15.39	16.36	17.33	18.31	19.28
105.0	11.33	11.45	12.39	13.32	14.26	15.20	16.13	17.07	18.01	18.94
107.5	11.63	11.61	12.39	13.17	13.96	14.74	15.52	16.30	17.08	17.86
110.0	12.16	12.07	12.67	13.27	13.87	14.47	15.08	15.68	16.28	16.88
112.5	13.51	13.34	13.62	13.91	14.20	14.49	14.78	15.07	15.35	15.64
115.0	13.37	13.12	13.25	13.38	13.51	13.64	13.78	13.91	14.04	14.17
117.5	13.25	13.15	13.11	13.07	13.03	12.99	12.95	12.91	12.87	12.83
120.0	13.15	12.95	12.76	12.57	12.37	12.18	11.99	11.80	11.60	11.41
122.5	12.77	12.53	12.30	12.08	11.86	11.64	11.42	11.20	10.97	10.75
125.0	11.83	11.55	11.37	11.19	11.01	10.83	10.66	10.48	10.30	10.12
127.5	10.16	9.88	9.83	9.79	9.75	9.71	9.66	9.62	9.58	9.54
130.0	9.23	9.11	9.08	9.06	9.03	9.00	8.98	8.95	8.92	8.90

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CANDELA TABULATION - (Cont.)

132.5	9.37	9.27	9.15	9.04	8.92	8.80	8.68	8.57	8.45	8.33
135.0	9.47	9.27	9.11	8.95	8.79	8.63	8.46	8.30	8.14	7.98
137.5	9.60	9.41	9.20	8.99	8.79	8.58	8.37	8.16	7.96	7.75
140.0	10.07	9.94	9.66	9.38	9.10	8.82	8.55	8.27	7.99	7.71
142.5	10.03	9.91	9.60	9.30	9.00	8.69	8.39	8.09	7.79	7.48
145.0	9.34	9.20	8.97	8.73	8.50	8.26	8.03	7.79	7.56	7.32
147.5	8.28	8.15	8.01	7.88	7.75	7.62	7.48	7.35	7.22	7.09
150.0	8.04	7.93	7.77	7.61	7.45	7.29	7.12	6.96	6.80	6.64
152.5	8.04	7.93	7.75	7.57	7.38	7.20	7.02	6.84	6.65	6.47
155.0	8.03	7.93	7.84	7.75	7.65	7.56	7.47	7.38	7.28	7.19
157.5	8.02	7.93	7.87	7.81	7.75	7.69	7.62	7.56	7.50	7.44
160.0	7.98	7.93	7.87	7.82	7.76	7.71	7.65	7.60	7.54	7.49
162.5	7.98	7.93	7.88	7.83	7.77	7.72	7.67	7.62	7.56	7.51
165.0	8.38	8.33	8.30	8.27	8.24	8.21	8.17	8.14	8.11	8.08
167.5	9.85	9.83	9.71	9.60	9.49	9.38	9.27	9.16	9.05	8.94
170.0	9.87	9.82	9.71	9.60	9.49	9.38	9.27	9.16	9.05	8.94
172.5	9.54	9.46	9.38	9.30	9.22	9.14	9.06	8.98	8.90	8.82
175.0	9.41	9.32	9.23	9.15	9.06	8.98	8.89	8.81	8.72	8.64
177.5	8.93	8.88	8.80	8.72	8.65	8.57	8.49	8.42	8.34	8.26
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles	Horizontal Angles									
	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	1975.41	1981.59	1987.78	1993.96	2000.14	2006.33	2012.51	2018.69	2024.88	2031.06
5.0	1860.26	1873.41	1886.57	1899.72	1912.87	1926.03	1939.18	1952.33	1965.49	1978.64
7.5	1742.51	1753.95	1765.39	1776.84	1788.28	1799.72	1811.17	1822.61	1834.06	1845.50
10.0	1599.03	1624.07	1649.12	1674.16	1699.20	1724.25	1749.29	1774.33	1799.38	1824.42
12.5	1513.44	1540.25	1567.07	1593.89	1620.71	1647.52	1674.34	1701.16	1727.98	1754.80
15.0	1382.66	1411.52	1440.38	1469.25	1498.11	1526.97	1555.83	1584.70	1613.56	1642.42
17.5	1291.02	1316.45	1341.88	1367.31	1392.74	1418.17	1443.60	1469.03	1494.46	1519.89
20.0	1139.75	1172.49	1205.22	1237.96	1270.70	1303.43	1336.17	1368.91	1401.64	1434.38
22.5	1024.39	1060.26	1096.13	1132.01	1167.88	1203.75	1239.62	1275.50	1311.37	1347.24
25.0	917.05	954.71	992.36	1030.02	1067.68	1105.33	1142.99	1180.65	1218.30	1255.96
27.5	822.94	860.22	897.50	934.78	972.06	1009.34	1046.62	1083.90	1121.18	1158.47
30.0	753.64	787.69	821.75	855.80	889.85	923.91	957.96	992.01	1026.07	1060.12
32.5	696.04	725.71	755.39	785.06	814.74	844.41	874.08	903.76	933.43	963.11
35.0	643.68	669.76	695.83	721.91	747.99	774.06	800.14	826.22	852.29	878.37
37.5	593.43	617.02	640.61	664.20	687.80	711.39	734.98	758.57	782.17	805.76
40.0	541.83	562.28	582.73	603.19	623.64	644.09	664.54	685.00	705.45	725.90
42.5	500.10	517.90	535.71	553.52	571.33	589.14	606.95	624.75	642.56	660.37
45.0	458.95	474.47	489.98	505.50	521.02	536.53	552.05	567.57	583.08	598.60
47.5	422.82	436.55	450.28	464.01	477.74	491.46	505.19	518.92	532.65	546.38
50.0	382.93	395.37	407.82	420.26	432.70	445.15	457.59	470.03	482.48	494.92
52.5	340.97	352.45	363.94	375.42	386.91	398.39	409.88	421.36	432.85	444.34
55.0	303.10	313.17	323.23	333.30	343.37	353.43	363.50	373.57	383.63	393.70
57.5	270.05	278.78	287.52	296.25	304.99	313.72	322.46	331.19	339.93	348.66
60.0	241.02	248.29	255.57	262.84	270.12	277.39	284.67	291.94	299.22	306.49
62.5	213.55	219.55	225.54	231.54	237.54	243.54	249.53	255.53	261.53	267.53
65.0	188.72	193.40	198.07	202.75	207.42	212.10	216.77	221.45	226.12	230.80
67.5	165.84	169.27	172.71	176.14	179.58	183.01	186.45	189.88	193.32	196.75
70.0	143.39	145.89	148.40	150.90	153.40	155.91	158.41	160.91	163.42	165.92
72.5	119.69	122.10	124.51	126.93	129.34	131.75	134.17	136.58	139.00	141.41
75.0	91.71	95.11	98.51	101.92	105.32	108.72	112.12	115.53	118.93	122.33
77.5	62.11	66.94	71.77	76.61	81.44	86.27	91.10	95.93	100.76	105.60

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CANDELA TABULATION - (Cont.)

80.0	40.05	45.51	50.97	56.42	61.88	67.34	72.80	78.25	83.71	89.17
82.5	23.89	29.81	35.74	41.66	47.58	53.50	59.43	65.35	71.27	77.20
85.0	20.12	25.80	31.48	37.17	42.85	48.53	54.21	59.90	65.58	71.26
87.5	21.15	27.14	33.13	39.13	45.12	51.11	57.10	63.10	69.09	75.08
90.0	22.52	29.16	35.80	42.43	49.07	55.71	62.35	68.98	75.62	82.26
92.5	25.35	32.61	39.88	47.15	54.41	61.68	68.95	76.21	83.48	90.75
95.0	26.76	34.51	42.26	50.01	57.76	65.51	73.26	81.01	88.76	96.51
97.5	24.66	32.20	39.73	47.27	54.81	62.34	69.88	77.42	84.95	92.49
100.0	22.40	29.38	36.36	43.35	50.33	57.31	64.29	71.28	78.26	85.24
102.5	20.25	26.66	33.07	39.48	45.89	52.29	58.70	65.11	71.52	77.93
105.0	19.88	25.49	31.10	36.71	42.32	47.94	53.55	59.16	64.77	70.38
107.5	18.65	23.50	28.36	33.22	38.08	42.94	47.80	52.65	57.51	62.37
110.0	17.48	21.66	25.84	30.02	34.20	38.37	42.55	46.73	50.91	55.09
112.5	15.93	19.48	23.03	26.58	30.13	33.68	37.23	40.78	44.33	47.88
115.0	14.30	17.35	20.41	23.46	26.52	29.57	32.63	35.68	38.74	41.79
117.5	12.79	15.44	18.09	20.74	23.39	26.05	28.70	31.35	34.00	36.66
120.0	11.22	13.51	15.80	18.08	20.37	22.66	24.95	27.23	29.52	31.81
122.5	10.53	12.48	14.43	16.38	18.33	20.28	22.23	24.18	26.13	28.08
125.0	9.94	11.58	13.21	14.85	16.49	18.12	19.76	21.40	23.03	24.67
127.5	9.50	10.83	12.16	13.49	14.82	16.15	17.49	18.82	20.15	21.48
130.0	8.87	10.03	11.18	12.34	13.49	14.65	15.80	16.96	18.11	19.27
132.5	8.22	9.23	10.25	11.27	12.29	13.31	14.33	15.34	16.36	17.38
135.0	7.82	8.68	9.54	10.39	11.25	12.11	12.97	13.82	14.68	15.54
137.5	7.54	8.22	8.91	9.59	10.28	10.96	11.65	12.33	13.02	13.70
140.0	7.43	7.95	8.48	9.00	9.52	10.05	10.57	11.09	11.62	12.14
142.5	7.18	7.59	7.99	8.40	8.80	9.21	9.62	10.02	10.43	10.84
145.0	7.09	7.37	7.66	7.94	8.22	8.51	8.79	9.07	9.36	9.64
147.5	6.96	7.11	7.27	7.42	7.58	7.74	7.89	8.05	8.20	8.36
150.0	6.48	6.58	6.69	6.79	6.89	7.00	7.10	7.20	7.31	7.41
152.5	6.29	6.34	6.39	6.44	6.49	6.54	6.59	6.64	6.69	6.74
155.0	7.10	7.04	6.97	6.91	6.84	6.78	6.71	6.65	6.58	6.52
157.5	7.38	7.28	7.18	7.09	6.99	6.89	6.79	6.69	6.59	6.50
160.0	7.43	7.33	7.23	7.13	7.03	6.92	6.82	6.72	6.62	6.52
162.5	7.46	7.40	7.33	7.27	7.20	7.14	7.08	7.01	6.95	6.89
165.0	8.05	7.94	7.84	7.73	7.62	7.52	7.41	7.30	7.20	7.09
167.5	8.83	8.77	8.71	8.65	8.59	8.53	8.47	8.41	8.35	8.29
170.0	8.83	8.85	8.86	8.88	8.90	8.91	8.93	8.95	8.96	8.98
172.5	8.75	8.81	8.87	8.93	8.99	9.05	9.11	9.17	9.23	9.29
175.0	8.55	8.63	8.72	8.80	8.89	8.97	9.06	9.14	9.23	9.31
177.5	8.19	8.26	8.34	8.42	8.50	8.58	8.66	8.73	8.81	8.89
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2038.30	2045.54	2052.78	2060.02	2067.25	2074.49	2081.73	2088.97	2096.21	2100.83
5.0	1990.34	2002.04	2013.74	2025.44	2037.14	2048.84	2060.54	2072.24	2083.94	2095.28
7.5	1866.66	1887.82	1908.98	1930.13	1951.29	1972.45	1993.61	2014.77	2035.93	2045.48
10.0	1846.43	1868.44	1890.44	1912.45	1934.46	1956.47	1978.47	2000.48	2022.49	2059.03
12.5	1788.77	1822.75	1856.72	1890.70	1924.67	1958.65	1992.62	2026.60	2060.57	2103.62
15.0	1677.97	1713.53	1749.08	1784.64	1820.19	1855.75	1891.30	1926.86	1962.41	2015.54
17.5	1562.30	1604.72	1647.13	1689.55	1731.96	1774.38	1816.79	1859.21	1901.63	1954.84
20.0	1480.21	1526.05	1571.88	1617.71	1663.55	1709.38	1755.21	1801.05	1846.88	1905.69
22.5	1397.61	1447.98	1498.35	1548.72	1599.09	1649.46	1699.83	1750.20	1800.57	1856.31
25.0	1310.54	1365.12	1419.71	1474.29	1528.87	1583.45	1638.04	1692.62	1747.20	1811.63

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

27.5	1215.21	1271.95	1328.69	1385.43	1442.17	1498.91	1555.65	1612.39	1669.14	1741.76
30.0	1116.32	1172.52	1228.73	1284.93	1341.13	1397.33	1453.54	1509.74	1565.94	1645.09
32.5	1020.43	1077.76	1135.09	1192.41	1249.74	1307.07	1364.40	1421.72	1479.05	1554.74
35.0	935.68	992.99	1050.30	1107.61	1164.91	1222.22	1279.53	1336.84	1394.15	1469.97
37.5	862.70	919.63	976.57	1033.50	1090.44	1147.38	1204.31	1261.25	1318.19	1395.62
40.0	783.96	842.02	900.08	958.14	1016.20	1074.26	1132.32	1190.38	1248.44	1329.29
42.5	717.47	774.56	831.66	888.75	945.85	1002.94	1060.04	1117.13	1174.23	1257.77
45.0	655.87	713.13	770.40	827.67	884.93	942.20	999.47	1056.73	1114.00	1194.47
47.5	601.82	657.26	712.71	768.15	823.59	879.03	934.48	989.92	1045.36	1122.33
50.0	548.63	602.34	656.05	709.76	763.48	817.19	870.90	924.61	978.32	1054.26
52.5	497.56	550.78	604.00	657.23	710.45	763.67	816.89	870.12	923.34	999.69
55.0	445.20	496.69	548.19	599.69	651.18	702.68	754.18	805.67	857.17	931.48
57.5	396.57	444.48	492.39	540.29	588.20	636.11	684.02	731.92	779.83	850.59
60.0	348.96	391.43	433.89	476.36	518.83	561.30	603.76	646.23	688.70	754.01
62.5	304.41	341.30	378.19	415.08	451.97	488.86	525.75	562.64	599.53	662.70
65.0	262.61	294.42	326.24	358.05	389.86	421.67	453.49	485.30	517.11	581.76
67.5	224.49	252.23	279.97	307.71	335.45	363.19	390.93	418.67	446.41	509.61
70.0	190.16	214.40	238.64	262.88	287.13	311.37	335.61	359.85	384.09	442.05
72.5	162.66	183.90	205.15	226.40	247.65	268.89	290.14	311.39	332.64	388.00
75.0	139.78	157.23	174.69	192.14	209.59	227.04	244.50	261.95	279.40	333.61
77.5	118.33	131.07	143.80	156.54	169.27	182.01	194.74	207.48	220.21	274.81
80.0	98.93	108.70	118.46	128.23	137.99	147.76	157.52	167.29	177.05	232.17
82.5	84.01	90.83	97.64	104.46	111.27	118.09	124.90	131.72	138.54	199.30
85.0	75.77	80.29	84.80	89.31	93.83	98.34	102.85	107.37	111.88	179.11
87.5	78.09	81.10	84.11	87.12	90.13	93.14	96.15	99.16	102.18	173.39
90.0	84.76	87.26	89.75	92.25	94.75	97.25	99.74	102.24	104.74	176.53
92.5	93.46	96.17	98.88	101.59	104.30	107.01	109.72	112.43	115.14	182.29
95.0	99.58	102.65	105.71	108.78	111.85	114.92	117.98	121.05	124.12	185.28
97.5	96.29	100.10	103.90	107.70	111.50	115.31	119.11	122.91	126.72	180.72
100.0	89.66	94.08	98.50	102.92	107.34	111.76	116.18	120.60	125.02	171.21
102.5	82.62	87.31	92.00	96.69	101.38	106.07	110.76	115.45	120.14	159.39
105.0	75.54	80.69	85.85	91.01	96.16	101.32	106.48	111.63	116.79	149.35
107.5	68.04	73.71	79.39	85.06	90.73	96.40	102.07	107.74	113.42	141.43
110.0	61.04	66.99	72.95	78.90	84.85	90.80	96.76	102.71	108.66	133.51
112.5	54.02	60.15	66.29	72.42	78.56	84.70	90.83	96.97	103.11	125.24
115.0	47.85	53.92	59.98	66.05	72.11	78.18	84.24	90.31	96.37	116.02
117.5	42.48	48.30	54.12	59.94	65.76	71.58	77.40	83.22	89.04	106.63
120.0	37.21	42.61	48.01	53.41	58.80	64.20	69.60	75.00	80.40	96.66
122.5	32.94	37.81	42.68	47.54	52.41	57.28	62.15	67.01	71.88	87.31
125.0	28.89	33.12	37.34	41.56	45.79	50.01	54.23	58.46	62.68	77.05
127.5	25.01	28.53	32.06	35.58	39.11	42.63	46.16	49.68	53.21	66.20
130.0	22.06	24.85	27.64	30.43	33.22	36.01	38.80	41.59	44.38	56.88
132.5	19.68	21.97	24.27	26.56	28.86	31.15	33.45	35.74	38.04	49.27
135.0	17.42	19.31	21.19	23.07	24.96	26.84	28.72	30.61	32.49	42.19
137.5	15.24	16.77	18.31	19.84	21.38	22.91	24.45	25.98	27.52	36.08
140.0	13.35	14.56	15.77	16.98	18.20	19.41	20.62	21.83	23.04	30.31
142.5	11.85	12.87	13.88	14.90	15.91	16.93	17.94	18.96	19.97	25.66
145.0	10.57	11.50	12.43	13.36	14.29	15.22	16.15	17.08	18.01	22.13
147.5	9.21	10.06	10.91	11.76	12.61	13.46	14.31	15.16	16.01	18.72
150.0	8.16	8.91	9.66	10.41	11.17	11.92	12.67	13.42	14.17	15.34
152.5	7.40	8.05	8.71	9.36	10.02	10.67	11.33	11.98	12.64	13.11
155.0	7.03	7.55	8.06	8.58	9.09	9.61	10.12	10.64	11.15	11.40
157.5	6.87	7.25	7.63	8.00	8.38	8.76	9.13	9.51	9.89	9.96
160.0	6.78	7.05	7.31	7.57	7.84	8.10	8.36	8.63	8.89	8.89
162.5	7.06	7.23	7.41	7.58	7.76	7.93	8.11	8.28	8.46	8.47
165.0	7.35	7.61	7.87	8.13	8.39	8.65	8.91	9.17	9.43	9.40

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CANDELA TABULATION - (Cont.)

167.5	8.44	8.60	8.75	8.91	9.06	9.22	9.37	9.53	9.69	9.63
170.0	9.06	9.13	9.21	9.28	9.36	9.43	9.51	9.58	9.66	9.65
172.5	9.33	9.37	9.41	9.45	9.49	9.54	9.58	9.62	9.66	9.70
175.0	9.35	9.39	9.43	9.47	9.50	9.54	9.58	9.62	9.66	9.70
177.5	8.98	9.07	9.16	9.24	9.33	9.42	9.51	9.60	9.69	9.72
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles	Horizontal Angles									
	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2105.44	2110.06	2114.68	2119.30	2123.91	2128.53	2133.15	2137.77	2140.71	2143.65
5.0	2106.62	2117.96	2129.30	2140.63	2151.97	2163.31	2174.65	2185.99	2198.45	2210.92
7.5	2055.03	2064.58	2074.13	2083.68	2093.23	2102.78	2112.33	2121.88	2161.40	2200.93
10.0	2095.56	2132.10	2168.63	2205.17	2241.70	2278.24	2314.77	2351.31	2368.52	2385.73
12.5	2146.67	2189.72	2232.77	2275.81	2318.86	2361.91	2404.96	2448.01	2456.99	2465.96
15.0	2068.67	2121.79	2174.92	2228.05	2281.18	2334.30	2387.43	2440.56	2458.03	2475.51
17.5	2008.06	2061.27	2114.49	2167.70	2220.92	2274.13	2327.35	2380.57	2420.39	2460.21
20.0	1964.50	2023.31	2082.12	2140.92	2199.73	2258.54	2317.35	2376.16	2413.51	2450.86
22.5	1912.06	1967.80	2023.54	2079.29	2135.03	2190.77	2246.52	2302.26	2333.71	2365.15
25.0	1876.06	1940.49	2004.92	2069.36	2133.79	2198.22	2262.65	2327.08	2355.66	2384.24
27.5	1814.38	1887.01	1959.63	2032.26	2104.88	2177.51	2250.13	2322.76	2345.63	2368.51
30.0	1724.24	1803.39	1882.54	1961.70	2040.85	2120.00	2199.15	2278.30	2297.57	2316.83
32.5	1630.43	1706.12	1781.80	1857.49	1933.18	2008.87	2084.56	2160.25	2190.75	2221.26
35.0	1545.79	1621.61	1697.43	1773.24	1849.06	1924.88	2000.70	2076.52	2114.31	2152.10
37.5	1473.05	1550.48	1627.91	1705.34	1782.77	1860.20	1937.63	2015.06	2058.82	2102.58
40.0	1410.13	1490.98	1571.83	1652.67	1733.52	1814.37	1895.21	1976.06	2013.97	2051.87
42.5	1341.31	1424.85	1508.39	1591.92	1675.46	1759.00	1842.54	1926.08	1962.92	1999.76
45.0	1274.94	1355.40	1435.87	1516.34	1596.81	1677.27	1757.74	1838.21	1879.76	1921.31
47.5	1199.30	1276.27	1353.24	1430.21	1507.18	1584.15	1661.12	1738.09	1796.47	1854.85
50.0	1130.20	1206.15	1282.09	1358.03	1433.97	1509.92	1585.86	1661.80	1722.58	1783.35
52.5	1076.03	1152.38	1228.72	1305.07	1381.42	1457.76	1534.11	1610.46	1670.32	1730.19
55.0	1005.79	1080.10	1154.41	1228.73	1303.04	1377.35	1451.66	1525.97	1596.57	1667.18
57.5	921.35	992.10	1062.86	1133.62	1204.38	1275.14	1345.90	1416.65	1500.35	1584.04
60.0	819.32	884.64	949.95	1015.26	1080.57	1145.89	1211.20	1276.51	1370.53	1464.55
62.5	725.88	789.05	852.23	915.40	978.58	1041.75	1104.93	1168.10	1259.03	1349.97
65.0	646.41	711.06	775.71	840.35	905.00	969.65	1034.30	1098.95	1185.56	1272.17
67.5	572.80	636.00	699.19	762.39	825.58	888.78	951.97	1015.17	1105.33	1195.50
70.0	500.00	557.96	615.91	673.87	731.82	789.78	847.73	905.69	991.20	1076.70
72.5	443.36	498.73	554.09	609.46	664.82	720.19	775.55	830.92	900.84	970.77
75.0	387.82	442.03	496.24	550.45	604.66	658.87	713.08	767.29	831.77	896.25
77.5	329.40	384.00	438.59	493.19	547.79	602.38	656.98	711.58	766.80	822.03
80.0	287.29	342.41	397.53	452.66	507.78	562.90	618.02	673.14	712.01	750.87
82.5	260.06	320.82	381.59	442.35	503.11	563.87	624.64	685.40	737.00	788.60
85.0	246.34	313.56	380.79	448.02	515.25	582.47	649.70	716.93	769.45	821.97
87.5	244.61	315.83	387.05	458.26	529.48	600.70	671.92	743.14	806.59	870.05
90.0	248.33	320.12	391.91	463.71	535.50	607.29	679.09	750.88	824.56	898.25
92.5	249.43	316.58	383.72	450.87	518.02	585.16	652.31	719.46	795.83	872.21
95.0	246.45	307.61	368.78	429.94	491.11	552.27	613.44	674.60	751.98	829.36
97.5	234.73	288.74	342.75	396.76	450.77	504.77	558.78	612.79	685.82	758.84
100.0	217.39	263.58	309.76	355.95	402.13	448.32	494.50	540.69	612.78	684.87
102.5	198.63	237.88	277.12	316.37	355.61	394.86	434.10	473.35	542.64	611.92
105.0	181.91	214.47	247.03	279.59	312.15	344.71	377.27	409.83	476.97	544.11
107.5	169.44	197.46	225.47	253.48	281.50	309.51	337.53	365.54	427.90	490.25
110.0	158.37	183.22	208.08	232.93	257.79	282.64	307.50	332.35	388.79	445.23
112.5	147.37	169.51	191.64	213.77	235.91	258.04	280.17	302.31	353.12	403.94

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CANDELA TABULATION - (Cont.)

115.0	135.67	155.32	174.97	194.61	214.26	233.91	253.56	273.21	319.38	365.55
117.5	124.21	141.80	159.39	176.98	194.56	212.15	229.74	247.33	289.04	330.76
120.0	112.93	129.19	145.45	161.72	177.98	194.24	210.51	226.77	260.93	295.09
122.5	102.74	118.17	133.60	149.04	164.47	179.90	195.33	210.76	238.23	265.69
125.0	91.42	105.79	120.16	134.54	148.91	163.28	177.65	192.02	215.51	239.00
127.5	79.20	92.19	105.19	118.18	131.17	144.17	157.16	170.16	190.80	211.45
130.0	69.38	81.88	94.38	106.89	119.39	131.89	144.39	156.89	173.54	190.19
132.5	60.51	71.74	82.97	94.21	105.44	116.67	127.91	139.14	154.52	169.90
135.0	51.89	61.58	71.28	80.98	90.68	100.37	110.07	119.77	135.60	151.43
137.5	44.64	53.20	61.76	70.32	78.88	87.44	96.00	104.57	119.88	135.20
140.0	37.58	44.85	52.12	59.40	66.67	73.94	81.21	88.48	103.27	118.07
142.5	31.36	37.05	42.75	48.44	54.13	59.83	65.52	71.22	85.98	100.75
145.0	26.25	30.37	34.49	38.60	42.72	46.84	50.96	55.08	69.24	83.41
147.5	21.43	24.14	26.84	29.55	32.26	34.97	37.68	40.39	53.54	66.69
150.0	16.50	17.67	18.83	20.00	21.16	22.33	23.49	24.66	36.98	49.30
152.5	13.58	14.06	14.53	15.00	15.48	15.95	16.42	16.90	27.01	37.13
155.0	11.65	11.90	12.15	12.41	12.66	12.91	13.16	13.41	20.89	28.37
157.5	10.03	10.10	10.18	10.25	10.32	10.39	10.47	10.54	15.51	20.48
160.0	8.90	8.90	8.91	8.91	8.92	8.92	8.93	8.93	11.40	13.86
162.5	8.48	8.49	8.50	8.51	8.52	8.53	8.54	8.55	8.69	8.84
165.0	9.37	9.34	9.31	9.27	9.24	9.21	9.18	9.15	8.99	8.83
167.5	9.57	9.52	9.46	9.40	9.35	9.29	9.23	9.18	9.06	8.94
170.0	9.64	9.64	9.63	9.62	9.61	9.61	9.60	9.59	9.45	9.30
172.5	9.74	9.78	9.81	9.85	9.89	9.93	9.97	10.01	9.85	9.69
175.0	9.74	9.78	9.82	9.87	9.91	9.95	9.99	10.03	9.93	9.83
177.5	9.76	9.80	9.84	9.88	9.92	9.95	9.99	10.03	9.96	9.88
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles **Horizontal Angles**

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2146.60	2149.54	2152.48	2155.43	2158.37	2161.32	2164.26	2161.94	2159.62	2157.30
5.0	2223.38	2235.85	2248.31	2260.78	2273.24	2285.71	2298.17	2313.88	2329.60	2345.31
7.5	2240.45	2279.98	2319.50	2359.03	2398.55	2438.08	2477.61	2491.24	2504.87	2518.51
10.0	2402.94	2420.15	2437.37	2454.58	2471.79	2489.00	2506.21	2510.67	2515.13	2519.60
12.5	2474.94	2483.91	2492.89	2501.86	2510.84	2519.81	2528.79	2551.67	2574.54	2597.42
15.0	2492.98	2510.46	2527.93	2545.41	2562.88	2580.36	2597.83	2628.85	2659.86	2690.88
17.5	2500.03	2539.85	2579.67	2619.50	2659.32	2699.14	2738.96	2731.61	2724.25	2716.90
20.0	2488.22	2525.57	2562.92	2600.27	2637.63	2674.98	2712.33	2712.38	2712.42	2712.47
22.5	2396.60	2428.05	2459.50	2490.94	2522.39	2553.84	2585.29	2603.84	2622.40	2640.96
25.0	2412.82	2441.40	2469.97	2498.55	2527.13	2555.71	2584.29	2588.76	2593.23	2597.70
27.5	2391.39	2414.27	2437.14	2460.02	2482.90	2505.78	2528.66	2546.85	2565.05	2583.25
30.0	2336.10	2355.36	2374.63	2393.89	2413.16	2432.42	2451.69	2488.15	2524.61	2561.08
32.5	2251.76	2282.27	2312.77	2343.28	2373.78	2404.29	2434.80	2465.38	2495.96	2526.55
35.0	2189.90	2227.69	2265.48	2303.27	2341.07	2378.86	2416.65	2443.81	2470.96	2498.12
37.5	2146.34	2190.10	2233.86	2277.62	2321.38	2365.14	2408.91	2431.33	2453.75	2476.18
40.0	2089.78	2127.69	2165.59	2203.50	2241.41	2279.31	2317.22	2362.16	2407.10	2452.04
42.5	2036.60	2073.44	2110.29	2147.13	2183.97	2220.81	2257.65	2315.94	2374.23	2432.53
45.0	1962.85	2004.40	2045.95	2087.50	2129.04	2170.59	2212.14	2269.73	2327.32	2384.91
47.5	1913.23	1971.61	2029.99	2088.37	2146.75	2205.13	2263.51	2315.86	2368.21	2420.56
50.0	1844.13	1904.90	1965.68	2026.45	2087.23	2148.00	2208.78	2257.41	2306.05	2354.68
52.5	1790.06	1849.93	1909.80	1969.67	2029.54	2089.41	2149.28	2230.81	2312.33	2393.86
55.0	1737.78	1808.39	1878.99	1949.60	2020.20	2090.81	2161.41	2266.46	2371.51	2476.57
57.5	1667.73	1751.43	1835.12	1918.81	2002.50	2086.20	2169.89	2243.10	2316.31	2389.53
60.0	1558.56	1652.58	1746.60	1840.62	1934.63	2028.65	2122.67	2187.53	2252.38	2317.24

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CANDELA TABULATION - (Cont.)

62.5	1440.90	1531.84	1622.77	1713.70	1804.64	1895.57	1986.51	2087.46	2188.41	2289.36
65.0	1358.78	1445.39	1531.99	1618.60	1705.21	1791.82	1878.43	2012.55	2146.68	2280.80
67.5	1285.66	1375.82	1465.98	1556.15	1646.31	1736.47	1826.64	1935.99	2045.34	2154.69
70.0	1162.21	1247.71	1333.22	1418.72	1504.23	1589.73	1675.24	1794.07	1912.90	2031.73
72.5	1040.69	1110.62	1180.55	1250.47	1320.40	1390.32	1460.25	1616.63	1773.01	1929.39
75.0	960.73	1025.21	1089.68	1154.16	1218.64	1283.12	1347.60	1501.26	1654.91	1808.57
77.5	877.26	932.48	987.71	1042.94	1098.16	1153.39	1208.62	1312.24	1415.87	1519.49
80.0	789.74	828.60	867.47	906.33	945.20	984.06	1022.93	1101.53	1180.13	1258.73
82.5	840.20	891.80	943.40	995.00	1046.60	1098.20	1149.80	1176.79	1203.79	1230.79
85.0	874.50	927.02	979.54	1032.06	1084.59	1137.11	1189.63	1216.19	1242.74	1269.30
87.5	933.51	996.97	1060.42	1123.88	1187.34	1250.80	1314.26	1354.65	1395.04	1435.44
90.0	971.93	1045.62	1119.30	1192.99	1266.67	1340.36	1414.04	1468.24	1522.44	1576.65
92.5	948.59	1024.97	1101.34	1177.72	1254.10	1330.48	1406.86	1465.88	1524.91	1583.93
95.0	906.74	984.12	1061.49	1138.87	1216.25	1293.63	1371.01	1424.09	1477.17	1530.25
97.5	831.87	904.89	977.92	1050.95	1123.97	1197.00	1270.03	1324.66	1379.30	1433.94
100.0	756.96	829.05	901.14	973.23	1045.32	1117.41	1189.50	1240.78	1292.06	1343.34
102.5	681.21	750.49	819.78	889.06	958.35	1027.63	1096.92	1145.45	1193.99	1242.52
105.0	611.25	678.39	745.52	812.66	879.80	946.94	1014.08	1057.22	1100.37	1143.51
107.5	552.61	614.96	677.32	739.67	802.03	864.38	926.74	966.93	1007.13	1047.33
110.0	501.66	558.10	614.54	670.98	727.41	783.85	840.29	874.99	909.69	944.39
112.5	454.76	505.58	556.39	607.21	658.03	708.85	759.67	785.81	811.96	838.11
115.0	411.72	457.89	504.07	550.24	596.41	642.58	688.75	707.86	726.97	746.08
117.5	372.47	414.19	455.91	497.62	539.34	581.05	622.77	639.15	655.53	671.91
120.0	329.25	363.41	397.56	431.72	465.88	500.04	534.20	552.90	571.60	590.29
122.5	293.16	320.62	348.09	375.55	403.02	430.48	457.95	477.02	496.10	515.18
125.0	262.49	285.98	309.46	332.95	356.44	379.93	403.42	415.28	427.15	439.01
127.5	232.10	252.74	273.39	294.04	314.69	335.33	355.98	360.33	364.68	369.03
130.0	206.85	223.50	240.15	256.80	273.46	290.11	306.76	311.03	315.31	319.58
132.5	185.28	200.66	216.03	231.41	246.79	262.17	277.55	281.94	286.33	290.72
135.0	167.27	183.10	198.93	214.76	230.60	246.43	262.26	263.23	264.20	265.17
137.5	150.51	165.83	181.15	196.46	211.78	227.09	242.41	246.22	250.04	253.85
140.0	132.86	147.65	162.45	177.24	192.03	206.83	221.62	224.54	227.45	230.37
142.5	115.51	130.28	145.04	159.81	174.57	189.34	204.10	207.41	210.72	214.03
145.0	97.57	111.73	125.90	140.06	154.22	168.39	182.55	187.16	191.77	196.38
147.5	79.85	93.00	106.15	119.31	132.46	145.61	158.77	164.36	169.96	175.55
150.0	61.63	73.95	86.27	98.59	110.92	123.24	135.56	141.72	147.88	154.04
152.5	47.25	57.37	67.49	77.61	87.73	97.85	107.97	115.21	122.46	129.71
155.0	35.85	43.33	50.82	58.30	65.78	73.26	80.74	88.24	95.73	103.23
157.5	25.45	30.42	35.38	40.35	45.32	50.29	55.26	62.19	69.13	76.06
160.0	16.33	18.80	21.26	23.73	26.20	28.66	31.13	37.13	43.14	49.14
162.5	8.98	9.13	9.27	9.42	9.56	9.71	9.85	14.60	19.35	24.10
165.0	8.66	8.50	8.34	8.18	8.01	7.85	7.69	9.34	10.99	12.64
167.5	8.83	8.71	8.59	8.48	8.36	8.25	8.13	7.98	7.83	7.68
170.0	9.16	9.02	8.87	8.73	8.59	8.44	8.30	8.14	7.98	7.81
172.5	9.54	9.38	9.22	9.07	8.91	8.75	8.60	8.45	8.30	8.15
175.0	9.73	9.63	9.53	9.43	9.33	9.23	9.13	8.98	8.83	8.68
177.5	9.81	9.74	9.67	9.59	9.52	9.45	9.38	9.24	9.11	8.97
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2154.97	2152.65	2150.33	2148.01	2145.69	2143.37	2144.13	2144.90	2145.67	2146.43
5.0	2361.03	2376.74	2392.46	2408.17	2423.89	2439.60	2435.98	2432.37	2428.75	2425.14
7.5	2532.14	2545.77	2559.41	2573.04	2586.68	2600.31	2597.15	2593.99	2590.84	2587.68

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWPL-WB-LED-PL1-40.IES

CANDELA TABULATION - (Cont.)

10.0	2524.06	2528.52	2532.98	2537.45	2541.91	2546.37	2545.93	2545.49	2545.06	2544.62
12.5	2620.30	2643.18	2666.05	2688.93	2711.81	2734.69	2737.35	2740.02	2742.69	2745.36
15.0	2721.89	2752.91	2783.92	2814.94	2845.95	2876.97	2866.87	2856.77	2846.67	2836.57
17.5	2709.55	2702.20	2694.84	2687.49	2680.14	2672.79	2672.93	2673.07	2673.21	2673.36
20.0	2712.52	2712.56	2712.61	2712.66	2712.70	2712.75	2723.86	2734.97	2746.08	2757.19
22.5	2659.51	2678.07	2696.63	2715.19	2733.74	2752.30	2751.44	2750.59	2749.73	2748.88
25.0	2602.17	2606.65	2611.12	2615.59	2620.06	2624.53	2627.57	2630.61	2633.65	2636.69
27.5	2601.45	2619.65	2637.85	2656.05	2674.25	2692.45	2702.73	2713.01	2723.29	2733.57
30.0	2597.54	2634.00	2670.46	2706.93	2743.39	2779.85	2798.79	2817.74	2836.68	2855.63
32.5	2557.13	2587.71	2618.30	2648.88	2679.47	2710.05	2720.60	2731.14	2741.69	2752.23
35.0	2525.27	2552.43	2579.58	2606.74	2633.89	2661.05	2662.37	2663.69	2665.01	2666.33
37.5	2498.60	2521.03	2543.45	2565.88	2588.30	2610.73	2625.73	2640.73	2655.73	2670.73
40.0	2496.98	2541.91	2586.85	2631.79	2676.73	2721.67	2735.04	2748.41	2761.79	2775.16
42.5	2490.82	2549.11	2607.40	2665.69	2723.98	2782.28	2803.83	2825.39	2846.95	2868.51
45.0	2442.50	2500.09	2557.68	2615.27	2672.86	2730.45	2756.13	2781.81	2807.49	2833.17
47.5	2472.91	2525.26	2577.61	2629.96	2682.31	2734.66	2756.49	2778.32	2800.15	2821.98
50.0	2403.32	2451.95	2500.59	2549.22	2597.86	2646.49	2697.07	2747.65	2798.23	2848.81
52.5	2475.39	2556.92	2638.44	2719.97	2801.50	2883.03	2947.16	3011.30	3075.43	3139.57
55.0	2581.62	2686.67	2791.72	2896.78	3001.83	3106.88	3127.53	3148.18	3168.83	3189.48
57.5	2462.74	2535.95	2609.16	2682.38	2755.59	2828.80	2849.50	2870.20	2890.90	2911.60
60.0	2382.10	2446.95	2511.81	2576.67	2641.52	2706.38	2743.29	2780.19	2817.10	2854.00
62.5	2390.31	2491.26	2592.21	2693.16	2794.11	2895.06	2951.36	3007.67	3063.97	3120.28
65.0	2414.92	2549.05	2683.17	2817.29	2951.42	3085.54	3119.82	3154.11	3188.39	3222.68
67.5	2264.04	2373.39	2482.75	2592.10	2701.45	2810.80	2844.64	2878.47	2912.31	2946.14
70.0	2150.56	2269.39	2388.22	2507.05	2625.88	2744.71	2803.07	2861.44	2919.80	2978.17
72.5	2085.77	2242.15	2398.53	2554.91	2711.29	2867.67	2932.29	2996.91	3061.53	3126.15
75.0	1962.22	2115.88	2269.53	2423.19	2576.84	2730.50	2775.98	2821.45	2866.93	2912.41
77.5	1623.12	1726.74	1830.37	1933.99	2037.62	2141.24	2170.81	2200.38	2229.95	2259.52
80.0	1337.33	1415.94	1494.54	1573.14	1651.74	1730.34	1746.64	1762.93	1779.23	1795.53
82.5	1257.78	1284.78	1311.78	1338.78	1365.77	1392.77	1427.04	1461.31	1495.58	1529.85
85.0	1295.85	1322.41	1348.96	1375.52	1402.07	1428.63	1472.15	1515.67	1559.19	1602.71
87.5	1475.83	1516.22	1556.62	1597.01	1637.41	1677.80	1732.61	1787.43	1842.24	1897.05
90.0	1630.85	1685.05	1739.25	1793.46	1847.66	1901.86	1963.84	2025.81	2087.79	2149.76
92.5	1642.96	1701.99	1761.01	1820.04	1879.06	1938.09	1998.60	2059.11	2119.62	2180.13
95.0	1583.33	1636.42	1689.50	1742.58	1795.66	1848.74	1911.48	1974.21	2036.95	2099.69
97.5	1488.58	1543.21	1597.85	1652.49	1707.13	1761.77	1822.34	1882.91	1943.49	2004.06
100.0	1394.62	1445.91	1497.19	1548.47	1599.75	1651.03	1711.07	1771.10	1831.14	1891.18
102.5	1291.05	1339.58	1388.12	1436.65	1485.18	1533.72	1589.82	1645.92	1702.03	1758.13
105.0	1186.65	1229.80	1272.94	1316.08	1359.23	1402.37	1459.09	1515.80	1572.52	1629.23
107.5	1087.52	1127.72	1167.92	1208.12	1248.31	1288.51	1340.93	1393.35	1445.77	1498.18
110.0	979.09	1013.78	1048.48	1083.18	1117.88	1152.58	1196.02	1239.46	1282.90	1326.34
112.5	864.26	890.41	916.56	942.71	968.86	995.01	1002.63	1010.26	1017.88	1025.51
115.0	765.19	784.29	803.40	822.51	841.62	860.73	851.21	841.69	832.16	822.64
117.5	688.29	704.67	721.05	737.43	753.81	770.20	767.31	764.42	761.53	758.64
120.0	608.99	627.69	646.39	665.08	683.78	702.48	704.01	705.54	707.07	708.60
122.5	534.26	553.34	572.42	591.50	610.58	629.66	640.35	651.04	661.73	672.42
125.0	450.88	462.74	474.61	486.47	498.34	510.20	523.04	535.88	548.71	561.55
127.5	373.38	377.74	382.09	386.44	390.79	395.14	402.89	410.64	418.39	426.13
130.0	323.86	328.13	332.41	336.68	340.96	345.23	346.68	348.12	349.57	351.01
132.5	295.11	299.51	303.90	308.29	312.68	317.07	319.94	322.81	325.69	328.56
135.0	266.14	267.12	268.09	269.06	270.03	271.00	275.36	279.72	284.08	288.44
137.5	257.66	261.48	265.29	269.10	272.92	276.73	275.28	273.83	272.39	270.94
140.0	233.28	236.20	239.11	242.03	244.94	247.86	252.56	257.26	261.96	266.66
142.5	217.34	220.65	223.96	227.27	230.58	233.90	238.21	242.52	246.84	251.15
145.0	200.99	205.61	210.22	214.83	219.44	224.05	227.31	230.57	233.83	237.09
147.5	181.15	186.74	192.34	197.93	203.53	209.13	212.16	215.20	218.24	221.28

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWPL-WB-LED-PL1-40.IES

CANDELA TABULATION - (Cont.)

150.0	160.20	166.35	172.51	178.67	184.83	190.99	194.49	197.99	201.50	205.00
152.5	136.96	144.20	151.45	158.70	165.95	173.20	176.63	180.06	183.50	186.93
155.0	110.72	118.22	125.71	133.21	140.70	148.20	151.36	154.52	157.68	160.84
157.5	82.99	89.92	96.86	103.79	110.72	117.66	120.65	123.64	126.63	129.63
160.0	55.15	61.15	67.16	73.16	79.17	85.17	87.83	90.48	93.14	95.79
162.5	28.85	33.60	38.35	43.10	47.85	52.60	54.67	56.75	58.83	60.91
165.0	14.29	15.95	17.60	19.25	20.90	22.55	23.96	25.38	26.79	28.21
167.5	7.53	7.39	7.24	7.09	6.94	6.79	6.87	6.95	7.03	7.11
170.0	7.65	7.49	7.33	7.16	7.00	6.84	6.82	6.81	6.79	6.77
172.5	8.00	7.85	7.70	7.55	7.40	7.25	7.25	7.25	7.25	7.25
175.0	8.53	8.38	8.23	8.08	7.93	7.78	7.79	7.80	7.81	7.82
177.5	8.84	8.70	8.57	8.43	8.30	8.17	8.16	8.15	8.14	8.13
180.0	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00

Vert. Angles **Horizontal Angles**

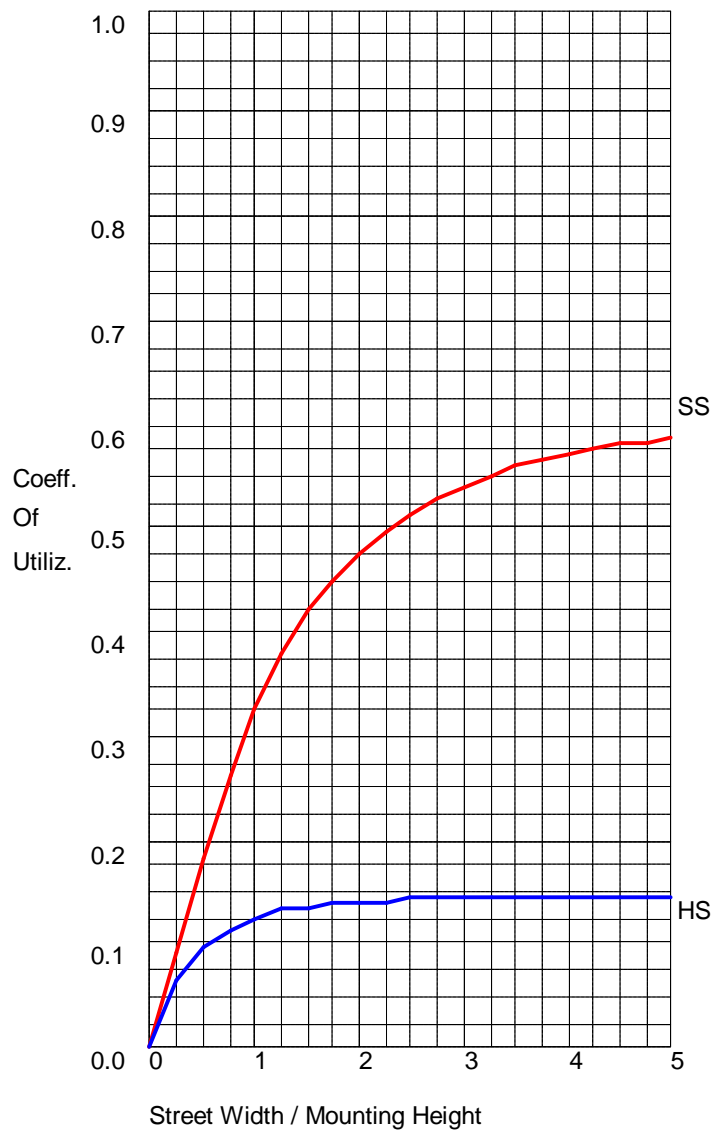
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	2056.74	2056.74	2056.74	2056.74	2056.74
2.5	2147.20	2147.97	2148.73	2149.50	2150.27
5.0	2421.52	2417.91	2414.29	2410.68	2407.06
7.5	2584.52	2581.36	2578.20	2575.04	2571.89
10.0	2544.18	2543.74	2543.31	2542.87	2542.43
12.5	2748.03	2750.70	2753.37	2756.04	2758.71
15.0	2826.48	2816.38	2806.28	2796.18	2786.08
17.5	2673.50	2673.64	2673.78	2673.93	2674.07
20.0	2768.31	2779.42	2790.53	2801.64	2812.75
22.5	2748.02	2747.17	2746.31	2745.46	2744.60
25.0	2639.73	2642.77	2645.81	2648.85	2651.89
27.5	2743.85	2754.13	2764.41	2774.69	2784.98
30.0	2874.57	2893.52	2912.46	2931.41	2950.35
32.5	2762.78	2773.33	2783.87	2794.42	2804.97
35.0	2667.66	2668.98	2670.30	2671.62	2672.94
37.5	2685.73	2700.73	2715.73	2730.73	2745.73
40.0	2788.53	2801.90	2815.28	2828.65	2842.02
42.5	2890.07	2911.63	2933.19	2954.75	2976.31
45.0	2858.86	2884.54	2910.22	2935.90	2961.58
47.5	2843.81	2865.64	2887.47	2909.30	2931.13
50.0	2899.39	2949.97	3000.55	3051.13	3101.71
52.5	3203.71	3267.84	3331.98	3396.11	3460.25
55.0	3210.12	3230.77	3251.42	3272.07	3292.72
57.5	2932.29	2952.99	2973.69	2994.39	3015.09
60.0	2890.91	2927.81	2964.72	3001.62	3038.53
62.5	3176.58	3232.88	3289.19	3345.49	3401.80
65.0	3256.96	3291.25	3325.53	3359.82	3394.10
67.5	2979.98	3013.81	3047.65	3081.48	3115.32
70.0	3036.53	3094.90	3153.26	3211.63	3269.99
72.5	3190.77	3255.39	3320.01	3384.63	3449.25
75.0	2957.88	3003.36	3048.84	3094.31	3139.79
77.5	2289.10	2318.67	2348.24	2377.81	2407.38
80.0	1811.82	1828.12	1844.42	1860.71	1877.01
82.5	1564.13	1598.40	1632.67	1666.94	1701.21
85.0	1646.22	1689.74	1733.26	1776.78	1820.30
87.5	1951.87	2006.68	2061.49	2116.31	2171.12
90.0	2211.74	2273.71	2335.69	2397.66	2459.64
92.5	2240.64	2301.15	2361.66	2422.17	2482.69
95.0	2162.42	2225.16	2287.90	2350.63	2413.37

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWPL-WB-LED-PL1-40.IES

CANDELA TABULATION - (Cont.)

97.5	2064.64	2125.21	2185.79	2246.36	2306.94
100.0	1951.21	2011.25	2071.29	2131.32	2191.36
102.5	1814.23	1870.34	1926.44	1982.55	2038.65
105.0	1685.95	1742.66	1799.38	1856.09	1912.81
107.5	1550.60	1603.02	1655.44	1707.86	1760.28
110.0	1369.79	1413.23	1456.67	1500.11	1543.55
112.5	1033.13	1040.76	1048.38	1056.01	1063.63
115.0	813.12	803.60	794.07	784.55	775.03
117.5	755.75	752.86	749.97	747.08	744.19
120.0	710.14	711.67	713.20	714.73	716.26
122.5	683.10	693.79	704.48	715.17	725.86
125.0	574.39	587.23	600.06	612.90	625.74
127.5	433.88	441.63	449.38	457.13	464.88
130.0	352.46	353.90	355.35	356.79	358.24
132.5	331.43	334.30	337.18	340.05	342.92
135.0	292.80	297.16	301.52	305.88	310.24
137.5	269.49	268.04	266.59	265.14	263.70
140.0	271.36	276.06	280.76	285.46	290.16
142.5	255.46	259.78	264.09	268.40	272.72
145.0	240.36	243.62	246.88	250.14	253.40
147.5	224.32	227.36	230.39	233.43	236.47
150.0	208.50	212.00	215.51	219.01	222.51
152.5	190.37	193.80	197.24	200.67	204.11
155.0	164.01	167.17	170.33	173.49	176.65
157.5	132.62	135.61	138.60	141.60	144.59
160.0	98.45	101.10	103.76	106.41	109.07
162.5	62.98	65.06	67.14	69.22	71.30
165.0	29.62	31.04	32.45	33.87	35.28
167.5	7.19	7.27	7.35	7.43	7.51
170.0	6.76	6.74	6.72	6.71	6.69
172.5	7.25	7.25	7.25	7.25	7.25
175.0	7.82	7.83	7.84	7.85	7.86
177.5	8.12	8.11	8.10	8.09	8.09
180.0	8.00	8.00	8.00	8.00	8.00

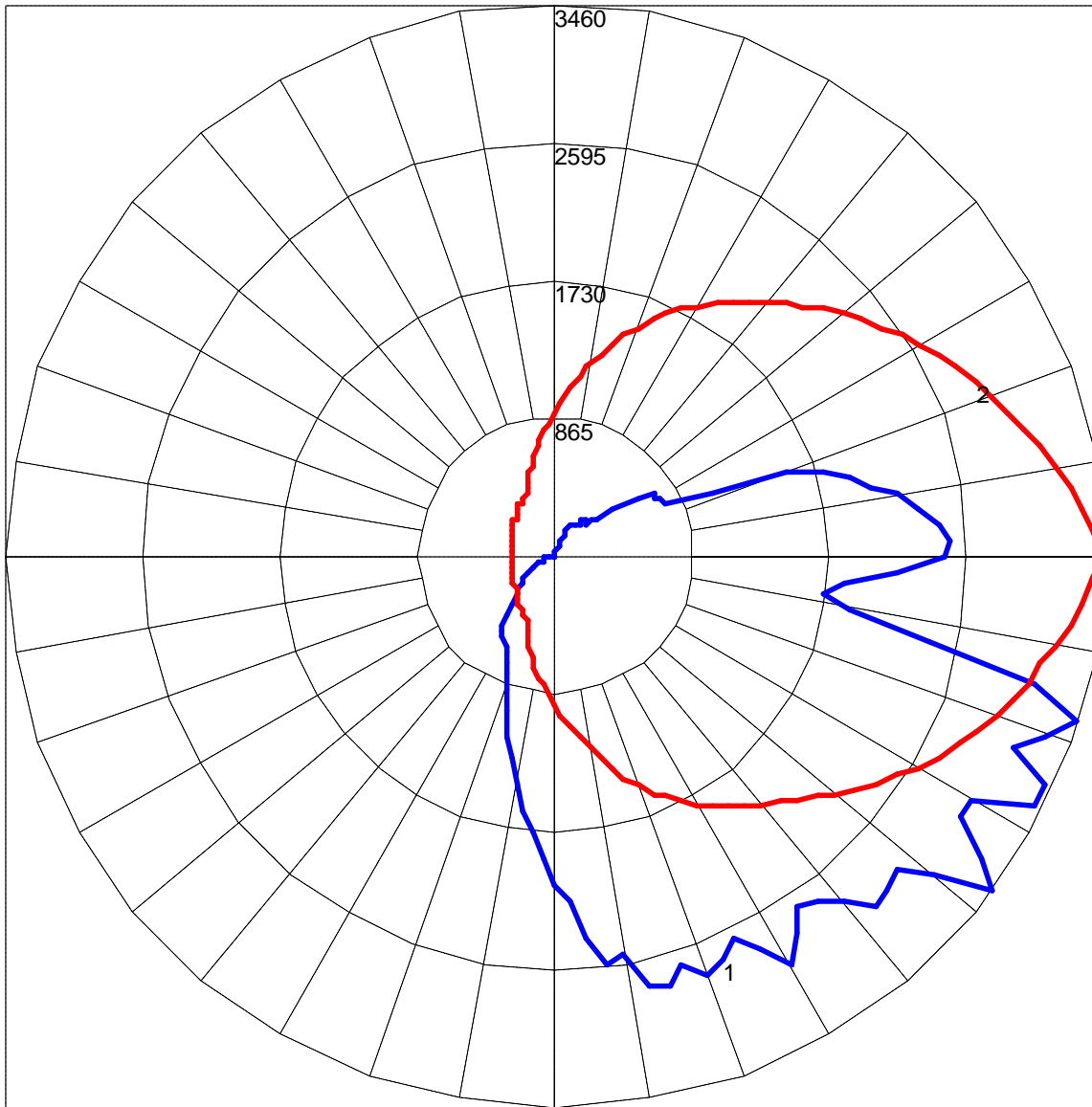
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

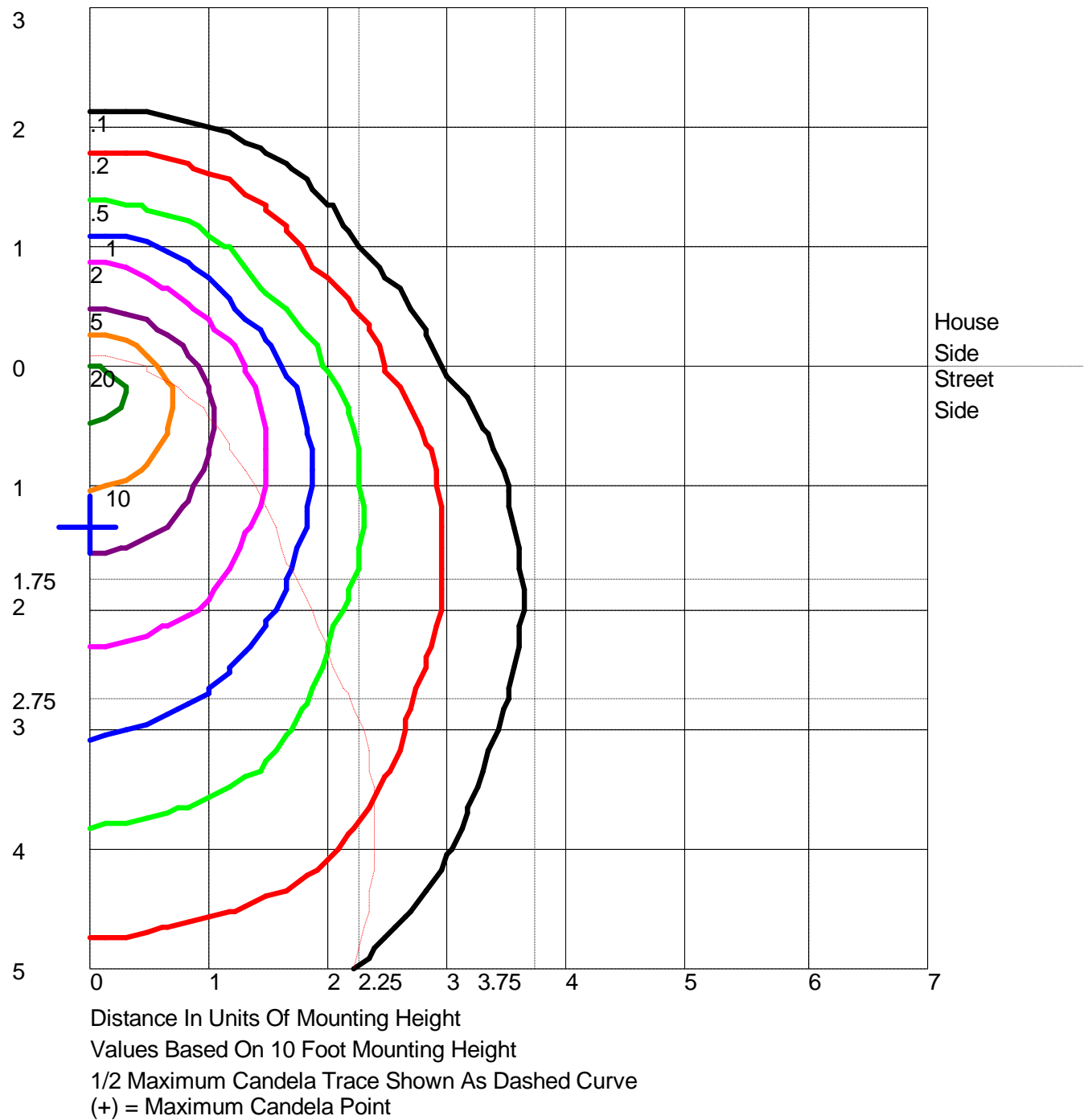
	Lumens	Percent Of Luminaire
Downward Street Side	5953.7	64.8
Downward House Side	1347.9	14.7
Downward Total	7301.6	79.4
Upward Street Side	1808.9	19.7
Upward House Side	83.5	0.9
Upward Total	1892.4	20.6
Total Flux	9194.0	100.0

POLAR GRAPH

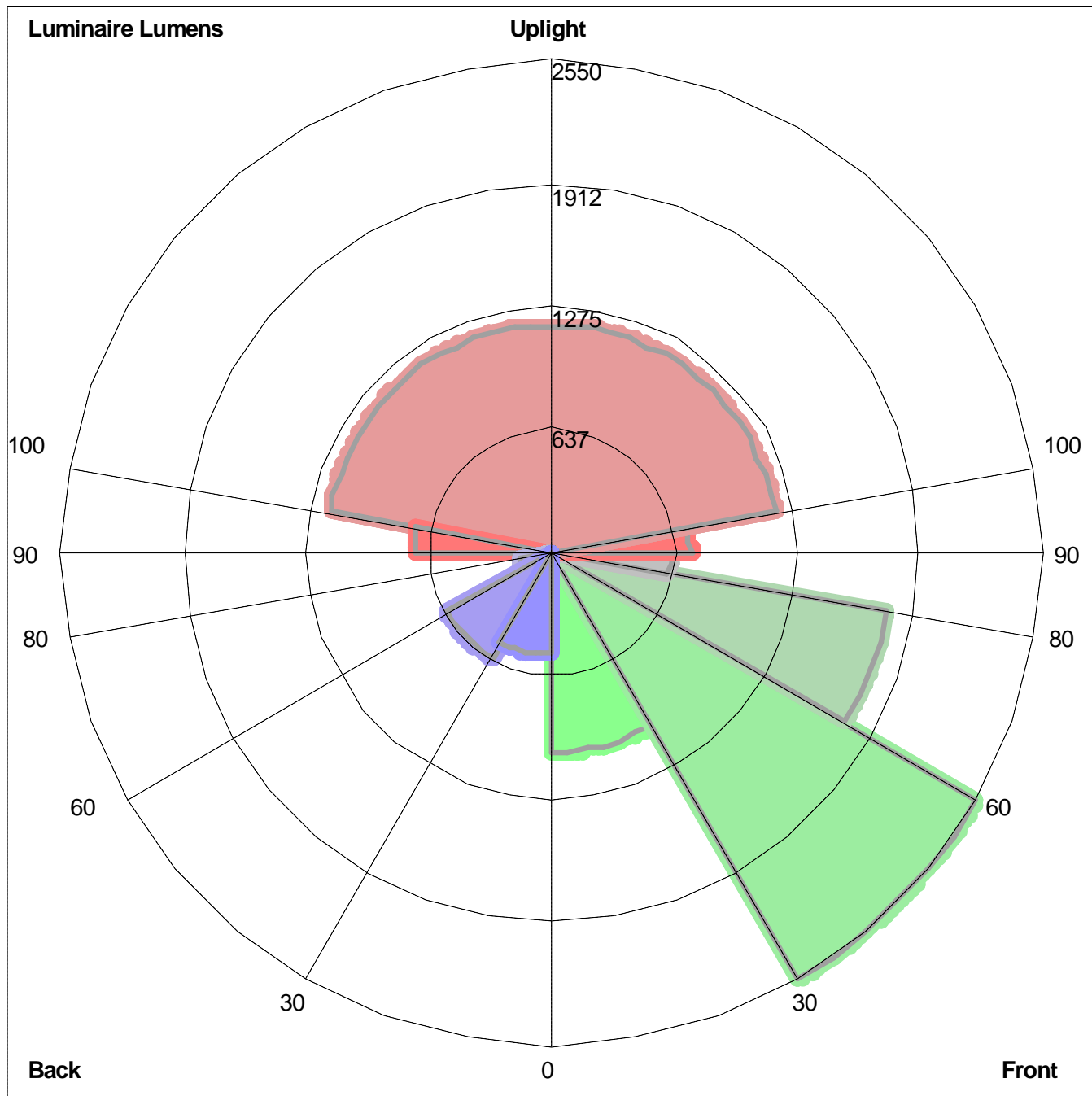


Maximum Candela = 3460.25 Located At Horizontal Angle = 360, Vertical Angle = 52.5
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1035.8, Medium=2549.7, High=1756.7, Very High=611.5
Back: Low=531.5, Medium=626.9, High=166.1, Very High=23.4
Uplight: Low=717.1, High=1175.3

BUG Rating : B2-U5-G4