

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 14K 360P-4-RD-835-U10-WA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 13551818.04
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 11/9/2020
 [MANUFAC] Lux Dynamics
 [LUMCAT] 360P-4-DR-835-xxx-xx-WA (modified from 2' IES file)
 [LUMINAIRE] Gray cylindrical metal housing with diffuse plastic lens
 [LAMP] White LEDs
 [BALLAST] One (1) OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L HB
 [OTHER] 25.7 C, 276.993 V, 0.194153 A, 51.0226 W, 0.948742 PF, 59.9711
 [MORE] Hz
 [OTHER] This test was performed using the calibrated photodetector met
 [MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	102.0452
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.72
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15751	17022	19256
55	14163	16841	20187
65	12086	17180	21722
75	9055	18290	24011
85	4091	20742	27637

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	2678.0	2678.0	2678.0	2678.0	2678.0	2678.0	2678.0	2678.0	2678.0	2678.0
0.5	2686.0	2678.0	2680.0	2684.0	2688.0	2684.0	2680.0	2678.0	2686.0	2674.0
1.0	2684.0	2682.0	2684.0	2690.0	2696.0	2690.0	2684.0	2682.0	2684.0	2670.0
1.5	2684.0	2684.0	2694.0	2698.0	2702.0	2698.0	2694.0	2684.0	2684.0	2664.0
2.0	2682.0	2686.0	2696.0	2704.0	2714.0	2704.0	2696.0	2686.0	2682.0	2660.0
2.5	2678.0	2692.0	2704.0	2710.0	2720.0	2710.0	2704.0	2692.0	2678.0	2656.0
3.0	2682.0	2690.0	2704.0	2716.0	2724.0	2716.0	2704.0	2690.0	2682.0	2650.0
3.5	2678.0	2692.0	2710.0	2724.0	2732.0	2724.0	2710.0	2692.0	2678.0	2648.0
4.0	2674.0	2694.0	2716.0	2732.0	2740.0	2732.0	2716.0	2694.0	2674.0	2642.0
4.5	2672.0	2696.0	2720.0	2740.0	2752.0	2740.0	2720.0	2696.0	2672.0	2634.0
5.0	2668.0	2694.0	2726.0	2750.0	2764.0	2750.0	2726.0	2694.0	2668.0	2626.0
5.5	2666.0	2698.0	2728.0	2756.0	2768.0	2756.0	2728.0	2698.0	2666.0	2622.0
6.0	2664.0	2702.0	2732.0	2762.0	2776.0	2762.0	2732.0	2702.0	2664.0	2616.0
6.5	2664.0	2700.0	2740.0	2770.0	2786.0	2770.0	2740.0	2700.0	2664.0	2610.0
7.0	2654.0	2698.0	2742.0	2778.0	2790.0	2778.0	2742.0	2698.0	2654.0	2600.0
7.5	2648.0	2700.0	2744.0	2786.0	2802.0	2786.0	2744.0	2700.0	2648.0	2594.0
8.0	2642.0	2700.0	2750.0	2794.0	2814.0	2794.0	2750.0	2700.0	2642.0	2588.0
8.5	2640.0	2696.0	2754.0	2800.0	2822.0	2800.0	2754.0	2696.0	2640.0	2578.0
9.0	2632.0	2694.0	2758.0	2806.0	2828.0	2806.0	2758.0	2694.0	2632.0	2570.0
9.5	2628.0	2690.0	2762.0	2812.0	2834.0	2812.0	2762.0	2690.0	2628.0	2564.0
10.0	2624.0	2694.0	2764.0	2822.0	2842.0	2822.0	2764.0	2694.0	2624.0	2554.0
10.5	2616.0	2690.0	2768.0	2828.0	2852.0	2828.0	2768.0	2690.0	2616.0	2544.0
11.0	2608.0	2690.0	2770.0	2832.0	2860.0	2832.0	2770.0	2690.0	2608.0	2536.0
11.5	2602.0	2686.0	2770.0	2836.0	2866.0	2836.0	2770.0	2686.0	2602.0	2530.0
12.0	2596.0	2682.0	2774.0	2844.0	2870.0	2844.0	2774.0	2682.0	2596.0	2518.0
12.5	2586.0	2680.0	2776.0	2848.0	2880.0	2848.0	2776.0	2680.0	2586.0	2510.0
13.0	2578.0	2678.0	2776.0	2850.0	2882.0	2850.0	2776.0	2678.0	2578.0	2498.0
13.5	2570.0	2672.0	2776.0	2858.0	2890.0	2858.0	2776.0	2672.0	2570.0	2486.0
14.0	2562.0	2668.0	2776.0	2860.0	2896.0	2860.0	2776.0	2668.0	2562.0	2476.0
14.5	2554.0	2666.0	2780.0	2864.0	2902.0	2864.0	2780.0	2666.0	2554.0	2466.0
15.0	2542.0	2662.0	2780.0	2872.0	2908.0	2872.0	2780.0	2662.0	2542.0	2456.0
15.5	2536.0	2654.0	2782.0	2878.0	2912.0	2878.0	2782.0	2654.0	2536.0	2442.0
16.0	2526.0	2650.0	2780.0	2880.0	2922.0	2880.0	2780.0	2650.0	2526.0	2436.0
16.5	2512.0	2644.0	2776.0	2886.0	2928.0	2886.0	2776.0	2644.0	2512.0	2422.0
17.0	2500.0	2640.0	2780.0	2888.0	2936.0	2888.0	2780.0	2640.0	2500.0	2408.0
17.5	2492.0	2632.0	2774.0	2894.0	2938.0	2894.0	2774.0	2632.0	2492.0	2398.0
18.0	2480.0	2626.0	2776.0	2896.0	2946.0	2896.0	2776.0	2626.0	2480.0	2386.0
18.5	2472.0	2622.0	2774.0	2900.0	2952.0	2900.0	2774.0	2622.0	2472.0	2376.0
19.0	2458.0	2612.0	2772.0	2906.0	2954.0	2906.0	2772.0	2612.0	2458.0	2362.0
19.5	2446.0	2608.0	2772.0	2906.0	2960.0	2906.0	2772.0	2608.0	2446.0	2348.0
20.0	2436.0	2600.0	2770.0	2914.0	2970.0	2914.0	2770.0	2600.0	2436.0	2334.0
20.5	2424.0	2592.0	2770.0	2914.0	2972.0	2914.0	2770.0	2592.0	2424.0	2320.0
21.0	2414.0	2582.0	2766.0	2918.0	2976.0	2918.0	2766.0	2582.0	2414.0	2304.0
21.5	2408.0	2576.0	2762.0	2920.0	2982.0	2920.0	2762.0	2576.0	2408.0	2290.0
22.0	2398.0	2568.0	2760.0	2926.0	2988.0	2926.0	2760.0	2568.0	2398.0	2276.0
22.5	2384.0	2558.0	2758.0	2926.0	2990.0	2926.0	2758.0	2558.0	2384.0	2258.0
23.0	2368.0	2550.0	2758.0	2928.0	2994.0	2928.0	2758.0	2550.0	2368.0	2244.0
23.5	2354.0	2540.0	2754.0	2932.0	2998.0	2932.0	2754.0	2540.0	2354.0	2228.0
24.0	2340.0	2530.0	2750.0	2932.0	3006.0	2932.0	2750.0	2530.0	2340.0	2212.0
24.5	2326.0	2518.0	2750.0	2930.0	3004.0	2930.0	2750.0	2518.0	2326.0	2196.0
25.0	2310.0	2508.0	2744.0	2934.0	3008.0	2934.0	2744.0	2508.0	2310.0	2180.0
25.5	2294.0	2502.0	2744.0	2932.0	3010.0	2932.0	2744.0	2502.0	2294.0	2164.0
26.0	2278.0	2488.0	2740.0	2934.0	3002.0	2934.0	2740.0	2488.0	2278.0	2148.0
26.5	2264.0	2482.0	2736.0	2934.0	3008.0	2934.0	2736.0	2482.0	2264.0	2130.0

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27.0	2246.0	2470.0	2732.0	2932.0	3012.0	2932.0	2732.0	2470.0	2246.0	2114.0
27.5	2232.0	2454.0	2726.0	2932.0	3012.0	2932.0	2726.0	2454.0	2232.0	2096.0
28.0	2216.0	2446.0	2720.0	2934.0	3012.0	2934.0	2720.0	2446.0	2216.0	2080.0
28.5	2200.0	2438.0	2718.0	2928.0	3014.0	2928.0	2718.0	2438.0	2200.0	2064.0
29.0	2184.0	2426.0	2710.0	2928.0	3018.0	2928.0	2710.0	2426.0	2184.0	2046.0
29.5	2168.0	2410.0	2708.0	2928.0	3018.0	2928.0	2708.0	2410.0	2168.0	2028.0
30.0	2152.0	2404.0	2702.0	2926.0	3016.0	2926.0	2702.0	2404.0	2152.0	2010.0
30.5	2134.0	2390.0	2692.0	2924.0	3018.0	2924.0	2692.0	2390.0	2134.0	1993.2
31.0	2116.0	2382.0	2684.0	2926.0	3022.0	2926.0	2684.0	2382.0	2116.0	1975.6
31.5	2100.0	2368.0	2680.0	2922.0	3020.0	2922.0	2680.0	2368.0	2100.0	1957.0
32.0	2084.0	2356.0	2674.0	2926.0	3018.0	2926.0	2674.0	2356.0	2084.0	1938.4
32.5	2066.0	2342.0	2666.0	2918.0	3026.0	2918.0	2666.0	2342.0	2066.0	1920.2
33.0	2048.0	2330.0	2658.0	2916.0	3020.0	2916.0	2658.0	2330.0	2048.0	1901.8
33.5	2030.0	2316.0	2652.0	2916.0	3024.0	2916.0	2652.0	2316.0	2030.0	1882.8
34.0	2012.0	2302.0	2642.0	2912.0	3024.0	2912.0	2642.0	2302.0	2012.0	1862.8
34.5	1995.0	2290.0	2632.0	2914.0	3026.0	2914.0	2632.0	2290.0	1995.0	1844.4
35.0	1976.8	2276.0	2624.0	2910.0	3028.0	2910.0	2624.0	2276.0	1976.8	1825.0
35.5	1958.4	2262.0	2612.0	2910.0	3026.0	2910.0	2612.0	2262.0	1958.4	1805.4
36.0	1940.2	2248.0	2606.0	2908.0	3026.0	2908.0	2606.0	2248.0	1940.2	1786.4
36.5	1921.0	2232.0	2598.0	2908.0	3032.0	2908.0	2598.0	2232.0	1921.0	1766.4
37.0	1901.8	2218.0	2590.0	2904.0	3030.0	2904.0	2590.0	2218.0	1901.8	1746.4
37.5	1882.4	2206.0	2582.0	2900.0	3032.0	2900.0	2582.0	2206.0	1882.4	1727.2
38.0	1863.2	2190.0	2570.0	2898.0	3034.0	2898.0	2570.0	2190.0	1863.2	1707.4
38.5	1843.8	2176.0	2562.0	2896.0	3034.0	2896.0	2562.0	2176.0	1843.8	1688.2
39.0	1824.6	2162.0	2556.0	2894.0	3028.0	2894.0	2556.0	2162.0	1824.6	1669.0
39.5	1804.6	2146.0	2544.0	2894.0	3030.0	2894.0	2544.0	2146.0	1804.6	1649.0
40.0	1785.0	2132.0	2536.0	2890.0	3030.0	2890.0	2536.0	2132.0	1785.0	1629.6
40.5	1765.4	2116.0	2524.0	2888.0	3032.0	2888.0	2524.0	2116.0	1765.4	1609.6
41.0	1745.6	2100.0	2512.0	2882.0	3030.0	2882.0	2512.0	2100.0	1745.6	1590.8
41.5	1725.6	2086.0	2504.0	2880.0	3030.0	2880.0	2504.0	2086.0	1725.6	1571.4
42.0	1706.0	2070.0	2498.0	2880.0	3034.0	2880.0	2498.0	2070.0	1706.0	1551.8
42.5	1686.6	2054.0	2488.0	2878.0	3034.0	2878.0	2488.0	2054.0	1686.6	1532.2
43.0	1666.0	2038.0	2478.0	2872.0	3036.0	2872.0	2478.0	2038.0	1666.0	1512.8
43.5	1646.0	2024.0	2466.0	2870.0	3036.0	2870.0	2466.0	2024.0	1646.0	1492.8
44.0	1626.0	2008.0	2460.0	2870.0	3038.0	2870.0	2460.0	2008.0	1626.0	1473.4
44.5	1606.6	1991.2	2452.0	2866.0	3038.0	2866.0	2452.0	1991.2	1606.6	1453.6
45.0	1586.2	1975.2	2442.0	2866.0	3034.0	2866.0	2442.0	1975.2	1586.2	1433.8
45.5	1566.4	1958.4	2430.0	2862.0	3034.0	2862.0	2430.0	1958.4	1566.4	1414.4
46.0	1546.4	1942.0	2422.0	2856.0	3032.0	2856.0	2422.0	1942.0	1546.4	1394.8
46.5	1526.4	1925.0	2412.0	2854.0	3034.0	2854.0	2412.0	1925.0	1526.4	1374.6
47.0	1506.0	1908.0	2402.0	2850.0	3032.0	2850.0	2402.0	1908.0	1506.0	1355.2
47.5	1486.2	1890.4	2394.0	2850.0	3032.0	2850.0	2394.0	1890.4	1486.2	1335.4
48.0	1466.2	1872.8	2388.0	2846.0	3034.0	2846.0	2388.0	1872.8	1466.2	1315.8
48.5	1446.6	1856.2	2374.0	2842.0	3032.0	2842.0	2374.0	1856.2	1446.6	1296.0
49.0	1426.2	1838.8	2368.0	2840.0	3034.0	2840.0	2368.0	1838.8	1426.2	1276.4
49.5	1406.6	1821.0	2356.0	2836.0	3034.0	2836.0	2356.0	1821.0	1406.6	1256.6
50.0	1386.8	1803.8	2346.0	2832.0	3034.0	2832.0	2346.0	1803.8	1386.8	1237.0
50.5	1366.6	1786.2	2336.0	2830.0	3032.0	2830.0	2336.0	1786.2	1366.6	1217.4
51.0	1346.2	1768.8	2326.0	2826.0	3034.0	2826.0	2326.0	1768.8	1346.2	1197.6
51.5	1326.2	1751.6	2316.0	2824.0	3030.0	2824.0	2316.0	1751.6	1326.2	1178.2
52.0	1306.6	1733.2	2306.0	2822.0	3028.0	2822.0	2306.0	1733.2	1306.6	1158.8
52.5	1286.6	1716.0	2294.0	2816.0	3028.0	2816.0	2294.0	1716.0	1286.6	1140.0
53.0	1266.2	1698.2	2286.0	2814.0	3032.0	2814.0	2286.0	1698.2	1266.2	1120.2
53.5	1246.8	1681.0	2276.0	2812.0	3028.0	2812.0	2276.0	1681.0	1246.8	1101.4
54.0	1227.0	1663.2	2266.0	2806.0	3032.0	2806.0	2266.0	1663.2	1227.0	1082.4
54.5	1206.8	1645.4	2256.0	2806.0	3026.0	2806.0	2256.0	1645.4	1206.8	1064.0

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55.0	1187.2	1627.8	2246.0	2800.0	3022.0	2800.0	2246.0	1627.8	1187.2	1045.2
55.5	1167.2	1610.0	2236.0	2802.0	3026.0	2802.0	2236.0	1610.0	1167.2	1027.2
56.0	1147.2	1592.6	2226.0	2798.0	3024.0	2798.0	2226.0	1592.6	1147.2	1008.4
56.5	1126.8	1574.8	2216.0	2792.0	3026.0	2792.0	2216.0	1574.8	1126.8	990.4
57.0	1107.4	1556.6	2206.0	2788.0	3020.0	2788.0	2206.0	1556.6	1107.4	972.0
57.5	1086.4	1539.4	2198.0	2784.0	3020.0	2784.0	2198.0	1539.4	1086.4	953.8
58.0	1065.8	1522.0	2186.0	2782.0	3020.0	2782.0	2186.0	1522.0	1065.8	935.6
58.5	1045.4	1504.2	2176.0	2776.0	3016.0	2776.0	2176.0	1504.2	1045.4	917.4
59.0	1025.2	1486.4	2166.0	2774.0	3012.0	2774.0	2166.0	1486.4	1025.2	899.4
59.5	1004.6	1468.6	2158.0	2770.0	3016.0	2770.0	2158.0	1468.6	1004.6	881.2
60.0	983.4	1451.2	2148.0	2762.0	3012.0	2762.0	2148.0	1451.2	983.4	863.2
60.5	963.0	1433.6	2138.0	2758.0	3010.0	2758.0	2138.0	1433.6	963.0	844.8
61.0	942.2	1416.8	2128.0	2756.0	3010.0	2756.0	2128.0	1416.8	942.2	826.6
61.5	922.2	1399.2	2118.0	2750.0	3010.0	2750.0	2118.0	1399.2	922.2	808.2
62.0	901.4	1381.6	2108.0	2748.0	3004.0	2748.0	2108.0	1381.6	901.4	790.2
62.5	881.0	1364.2	2098.0	2742.0	3002.0	2742.0	2098.0	1364.2	881.0	771.6
63.0	860.0	1347.4	2088.0	2734.0	2998.0	2734.0	2088.0	1347.4	860.0	753.8
63.5	839.6	1330.0	2078.0	2730.0	2992.0	2730.0	2078.0	1330.0	839.6	735.6
64.0	819.0	1312.4	2068.0	2726.0	2990.0	2726.0	2068.0	1312.4	819.0	717.2
64.5	799.0	1295.4	2058.0	2718.0	2986.0	2718.0	2058.0	1295.4	799.0	698.6
65.0	778.4	1278.6	2048.0	2714.0	2982.0	2714.0	2048.0	1278.6	778.4	681.4
65.5	758.4	1261.6	2038.0	2710.0	2978.0	2710.0	2038.0	1261.6	758.4	662.8
66.0	738.2	1245.4	2028.0	2702.0	2976.0	2702.0	2028.0	1245.4	738.2	645.2
66.5	718.0	1228.2	2016.0	2696.0	2978.0	2696.0	2016.0	1228.2	718.0	627.8
67.0	697.6	1212.2	2006.0	2692.0	2970.0	2692.0	2006.0	1212.2	697.6	609.8
67.5	677.2	1196.2	1996.4	2686.0	2968.0	2686.0	1996.4	1196.2	677.2	592.4
68.0	657.4	1180.4	1986.8	2682.0	2958.0	2682.0	1986.8	1180.4	657.4	575.0
68.5	637.6	1164.2	1977.2	2676.0	2960.0	2676.0	1977.2	1164.2	637.6	558.0
69.0	618.0	1149.0	1967.6	2670.0	2956.0	2670.0	1967.6	1149.0	618.0	541.8
69.5	598.2	1133.6	1958.8	2666.0	2954.0	2666.0	1958.8	1133.6	598.2	525.2
70.0	578.6	1118.6	1948.8	2662.0	2952.0	2662.0	1948.8	1118.6	578.6	509.6
70.5	559.4	1103.4	1939.6	2654.0	2946.0	2654.0	1939.6	1103.4	559.4	494.0
71.0	540.0	1089.4	1930.2	2650.0	2942.0	2650.0	1930.2	1089.4	540.0	479.0
71.5	520.6	1075.2	1921.0	2646.0	2936.0	2646.0	1921.0	1075.2	520.6	464.6
72.0	501.4	1061.0	1912.2	2638.0	2928.0	2638.0	1912.2	1061.0	501.4	450.4
72.5	482.2	1046.2	1902.4	2632.0	2926.0	2632.0	1902.4	1046.2	482.2	436.0
73.0	463.2	1031.6	1893.2	2626.0	2922.0	2626.0	1893.2	1031.6	463.2	422.0
73.5	444.2	1017.8	1883.2	2618.0	2916.0	2618.0	1883.2	1017.8	444.2	408.6
74.0	425.6	1004.2	1873.8	2614.0	2912.0	2614.0	1873.8	1004.2	425.6	394.4
74.5	407.4	990.6	1864.6	2610.0	2904.0	2610.0	1864.6	990.6	407.4	381.2
75.0	389.6	977.0	1855.2	2602.0	2898.0	2602.0	1855.2	977.0	389.6	368.2
75.5	371.0	963.2	1846.2	2594.0	2894.0	2594.0	1846.2	963.2	371.0	355.6
76.0	353.4	950.4	1836.4	2588.0	2896.0	2588.0	1836.4	950.4	353.4	342.8
76.5	335.6	937.2	1826.8	2582.0	2888.0	2582.0	1826.8	937.2	335.6	330.4
77.0	318.0	924.2	1816.8	2574.0	2878.0	2574.0	1816.8	924.2	318.0	318.4
77.5	300.8	911.4	1807.6	2570.0	2876.0	2570.0	1807.6	911.4	300.8	306.2
78.0	284.2	899.2	1797.8	2560.0	2872.0	2560.0	1797.8	899.2	284.2	294.8
78.5	267.2	886.8	1788.2	2552.0	2862.0	2552.0	1788.2	886.8	267.2	283.6
79.0	251.0	874.6	1779.0	2548.0	2862.0	2548.0	1779.0	874.6	251.0	272.2
79.5	234.8	862.8	1769.4	2538.0	2850.0	2538.0	1769.4	862.8	234.8	261.2
80.0	219.0	851.8	1760.4	2534.0	2846.0	2534.0	1760.4	851.8	219.0	250.4
80.5	203.6	840.8	1750.6	2526.0	2838.0	2526.0	1750.6	840.8	203.6	239.6
81.0	188.4	830.0	1741.8	2516.0	2828.0	2516.0	1741.8	830.0	188.4	229.4
81.5	173.6	818.6	1732.2	2510.0	2820.0	2510.0	1732.2	818.6	173.6	219.4
82.0	159.4	807.6	1723.6	2504.0	2820.0	2504.0	1723.6	807.6	159.4	209.6
82.5	145.6	797.8	1714.0	2498.0	2808.0	2498.0	1714.0	797.8	145.6	200.0

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83.0	132.2	787.2	1704.8	2488.0	2804.0	2488.0	1704.8	787.2	132.2	190.6
83.5	119.0	777.6	1696.6	2478.0	2794.0	2478.0	1696.6	777.6	119.0	181.6
84.0	106.6	767.8	1688.2	2474.0	2788.0	2474.0	1688.2	767.8	106.6	173.0
84.5	94.8	758.4	1680.0	2466.0	2778.0	2466.0	1680.0	758.4	94.8	164.6
85.0	83.2	749.4	1671.4	2458.0	2776.0	2458.0	1671.4	749.4	83.2	156.6
85.5	72.8	740.8	1663.8	2446.0	2770.0	2446.0	1663.8	740.8	72.8	149.2
86.0	62.6	732.0	1655.2	2440.0	2756.0	2440.0	1655.2	732.0	62.6	142.2
86.5	53.2	723.8	1647.0	2432.0	2750.0	2432.0	1647.0	723.8	53.2	135.8
87.0	44.8	716.0	1639.4	2426.0	2738.0	2426.0	1639.4	716.0	44.8	129.8
87.5	37.4	708.8	1630.8	2422.0	2734.0	2422.0	1630.8	708.8	37.4	124.6
88.0	31.2	701.4	1622.2	2414.0	2724.0	2414.0	1622.2	701.4	31.2	120.0
88.5	26.0	694.6	1614.4	2406.0	2714.0	2406.0	1614.4	694.6	26.0	116.0
89.0	22.2	689.0	1607.0	2402.0	2708.0	2402.0	1607.0	689.0	22.2	112.2
89.5	19.8	682.8	1600.6	2394.0	2700.0	2394.0	1600.6	682.8	19.8	109.0
90.0	18.8	677.4	1593.4	2388.0	2698.0	2388.0	1593.4	677.4	18.8	106.2
90.5	18.4	672.6	1587.4	2380.0	2692.0	2380.0	1587.4	672.6	18.4	103.6
91.0	18.4	668.4	1581.8	2374.0	2684.0	2374.0	1581.8	668.4	18.4	101.4
91.5	18.8	664.0	1576.0	2368.0	2672.0	2368.0	1576.0	664.0	18.8	99.2
92.0	19.2	660.2	1571.6	2362.0	2668.0	2362.0	1571.6	660.2	19.2	97.2
92.5	20.0	656.6	1567.0	2356.0	2660.0	2356.0	1567.0	656.6	20.0	95.4
93.0	20.8	653.2	1562.4	2350.0	2652.0	2350.0	1562.4	653.2	20.8	93.4
93.5	22.0	649.6	1556.8	2346.0	2654.0	2346.0	1556.8	649.6	22.0	91.8
94.0	23.2	645.8	1551.4	2340.0	2644.0	2340.0	1551.4	645.8	23.2	90.6
94.5	24.4	642.0	1546.6	2334.0	2638.0	2334.0	1546.6	642.0	24.4	89.4
95.0	26.0	638.4	1541.0	2328.0	2634.0	2328.0	1541.0	638.4	26.0	88.6
95.5	27.4	634.6	1535.4	2320.0	2622.0	2320.0	1535.4	634.6	27.4	87.8
96.0	29.0	630.4	1529.0	2314.0	2618.0	2314.0	1529.0	630.4	29.0	87.4
96.5	30.8	627.0	1522.6	2306.0	2608.0	2306.0	1522.6	627.0	30.8	87.0
97.0	32.8	623.4	1517.0	2298.0	2602.0	2298.0	1517.0	623.4	32.8	86.8
97.5	34.8	619.6	1510.6	2290.0	2590.0	2290.0	1510.6	619.6	34.8	86.8
98.0	36.8	615.8	1503.6	2282.0	2586.0	2282.0	1503.6	615.8	36.8	86.6
98.5	38.8	612.4	1496.8	2272.0	2574.0	2272.0	1496.8	612.4	38.8	86.8
99.0	41.2	609.4	1489.4	2264.0	2568.0	2264.0	1489.4	609.4	41.2	87.2
99.5	43.4	606.0	1481.8	2254.0	2554.0	2254.0	1481.8	606.0	43.4	87.6
100.0	45.8	603.4	1474.6	2244.0	2542.0	2244.0	1474.6	603.4	45.8	88.2
100.5	48.2	600.6	1467.8	2236.0	2534.0	2236.0	1467.8	600.6	48.2	89.0
101.0	50.6	597.8	1460.4	2226.0	2522.0	2226.0	1460.4	597.8	50.6	90.0
101.5	53.2	595.6	1454.0	2214.0	2514.0	2214.0	1454.0	595.6	53.2	90.8
102.0	55.8	594.0	1447.4	2204.0	2498.0	2204.0	1447.4	594.0	55.8	91.8
102.5	58.2	591.4	1440.4	2194.0	2486.0	2194.0	1440.4	591.4	58.2	93.0
103.0	60.4	589.6	1433.2	2184.0	2476.0	2184.0	1433.2	589.6	60.4	94.2
103.5	62.8	587.8	1426.4	2172.0	2458.0	2172.0	1426.4	587.8	62.8	95.2
104.0	65.4	586.4	1419.4	2162.0	2450.0	2162.0	1419.4	586.4	65.4	96.4
104.5	68.0	584.6	1412.6	2152.0	2436.0	2152.0	1412.6	584.6	68.0	97.6
105.0	70.4	582.8	1405.2	2142.0	2426.0	2142.0	1405.2	582.8	70.4	98.8
105.5	73.0	581.4	1398.2	2130.0	2424.0	2130.0	1398.2	581.4	73.0	100.0
106.0	75.4	579.4	1391.4	2118.0	2412.0	2118.0	1391.4	579.4	75.4	101.2
106.5	77.8	577.4	1384.4	2108.0	2398.0	2108.0	1384.4	577.4	77.8	102.4
107.0	80.0	576.2	1376.8	2096.0	2386.0	2096.0	1376.8	576.2	80.0	103.6
107.5	82.4	574.4	1370.2	2084.0	2374.0	2084.0	1370.2	574.4	82.4	104.6
108.0	84.6	572.4	1362.4	2072.0	2360.0	2072.0	1362.4	572.4	84.6	105.4
108.5	86.8	570.8	1355.0	2062.0	2346.0	2062.0	1355.0	570.8	86.8	106.2
109.0	89.0	569.8	1347.8	2050.0	2332.0	2050.0	1347.8	569.8	89.0	106.6
109.5	91.0	569.0	1340.8	2038.0	2320.0	2038.0	1340.8	569.0	91.0	107.0
110.0	93.0	568.2	1333.6	2026.0	2304.0	2026.0	1333.6	568.2	93.0	107.4
110.5	94.8	567.8	1326.8	2014.0	2292.0	2014.0	1326.8	567.8	94.8	108.0

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111.0	96.6	567.6	1320.0	2002.0	2276.0	2002.0	1320.0	567.6	96.6	108.4
111.5	98.6	567.6	1314.0	1990.4	2264.0	1990.4	1314.0	567.6	98.6	107.4
112.0	100.4	568.0	1307.6	1978.6	2250.0	1978.6	1307.6	568.0	100.4	105.6
112.5	102.4	568.2	1301.4	1966.6	2236.0	1966.6	1301.4	568.2	102.4	103.2
113.0	104.2	568.8	1295.0	1954.4	2222.0	1954.4	1295.0	568.8	104.2	99.6
113.5	106.0	569.2	1288.8	1942.2	2208.0	1942.2	1288.8	569.2	106.0	95.4
114.0	108.2	569.6	1283.0	1930.4	2194.0	1930.4	1283.0	569.6	108.2	91.4
114.5	110.0	570.0	1276.6	1919.0	2180.0	1919.0	1276.6	570.0	110.0	87.4
115.0	111.8	570.4	1270.6	1907.0	2166.0	1907.0	1270.6	570.4	111.8	83.6
115.5	113.8	570.6	1264.2	1894.8	2152.0	1894.8	1264.2	570.6	113.8	79.8
116.0	115.8	571.6	1257.6	1883.0	2138.0	1883.0	1257.6	571.6	115.8	75.6
116.5	117.6	571.8	1251.2	1872.2	2124.0	1872.2	1251.2	571.8	117.6	71.4
117.0	119.4	572.4	1244.8	1860.2	2108.0	1860.2	1244.8	572.4	119.4	67.4
117.5	121.2	573.0	1238.2	1848.2	2094.0	1848.2	1238.2	573.0	121.2	63.4
118.0	123.0	573.8	1231.2	1836.6	2080.0	1836.6	1231.2	573.8	123.0	59.8
118.5	125.0	574.6	1224.2	1825.0	2066.0	1825.0	1224.2	574.6	125.0	57.2
119.0	126.8	575.2	1217.2	1813.2	2052.0	1813.2	1217.2	575.2	126.8	55.6
119.5	128.8	576.0	1210.0	1801.4	2038.0	1801.4	1210.0	576.0	128.8	54.2
120.0	130.6	576.4	1203.2	1788.8	2022.0	1788.8	1203.2	576.4	130.6	53.4
120.5	132.6	577.0	1195.6	1777.2	2008.0	1777.2	1195.6	577.0	132.6	53.0
121.0	134.4	577.6	1188.4	1764.4	1993.4	1764.4	1188.4	577.6	134.4	52.4
121.5	136.4	577.6	1180.8	1751.6	1979.6	1751.6	1180.8	577.6	136.4	51.6
122.0	138.2	578.6	1173.8	1739.2	1964.4	1739.2	1173.8	578.6	138.2	51.2
122.5	140.4	579.2	1167.0	1726.8	1950.0	1726.8	1167.0	579.2	140.4	50.6
123.0	142.6	579.8	1160.6	1714.0	1934.2	1714.0	1160.6	579.8	142.6	50.0
123.5	144.6	580.4	1154.0	1701.0	1919.4	1701.0	1154.0	580.4	144.6	49.4
124.0	146.8	581.4	1148.4	1687.6	1904.4	1687.6	1148.4	581.4	146.8	49.0
124.5	149.0	582.0	1143.4	1674.0	1888.0	1674.0	1143.4	582.0	149.0	48.4
125.0	151.2	582.6	1138.0	1660.8	1873.4	1660.8	1138.0	582.6	151.2	47.6
125.5	153.6	583.2	1132.6	1648.0	1857.4	1648.0	1132.6	583.2	153.6	47.0
126.0	155.8	583.8	1127.0	1634.2	1842.0	1634.2	1127.0	583.8	155.8	46.4
126.5	158.2	584.8	1121.6	1620.2	1825.6	1620.2	1121.6	584.8	158.2	45.8
127.0	160.6	585.2	1116.2	1606.4	1810.2	1606.4	1116.2	585.2	160.6	45.2
127.5	163.0	585.6	1110.6	1592.8	1793.2	1592.8	1110.6	585.6	163.0	44.6
128.0	165.4	586.6	1105.0	1579.0	1776.2	1579.0	1105.0	586.6	165.4	43.8
128.5	167.8	587.2	1099.4	1564.6	1760.8	1564.6	1099.4	587.2	167.8	43.4
129.0	170.4	587.4	1093.2	1550.4	1743.8	1550.4	1093.2	587.4	170.4	42.8
129.5	172.8	587.6	1086.8	1536.4	1727.4	1536.4	1086.8	587.6	172.8	42.0
130.0	175.4	588.2	1079.8	1522.6	1711.2	1522.6	1079.8	588.2	175.4	41.4
130.5	177.8	589.0	1073.2	1509.0	1693.8	1509.0	1073.2	589.0	177.8	40.8
131.0	180.0	589.4	1066.2	1497.2	1677.4	1497.2	1066.2	589.4	180.0	40.0
131.5	182.4	589.8	1059.2	1485.0	1660.4	1485.0	1059.2	589.8	182.4	39.4
132.0	184.4	590.0	1052.4	1472.6	1643.0	1472.6	1052.4	590.0	184.4	38.8
132.5	186.4	590.6	1045.8	1460.8	1625.8	1460.8	1045.8	590.6	186.4	38.2
133.0	188.2	591.0	1039.0	1448.2	1610.2	1448.2	1039.0	591.0	188.2	37.6
133.5	189.8	591.0	1032.6	1435.8	1596.8	1435.8	1032.6	591.0	189.8	37.0
134.0	191.4	591.6	1025.4	1422.0	1581.8	1422.0	1025.4	591.6	191.4	36.2
134.5	192.4	591.6	1019.4	1408.4	1568.0	1408.4	1019.4	591.6	192.4	35.6
135.0	193.6	591.2	1012.6	1393.4	1553.6	1393.4	1012.6	591.2	193.6	35.0
135.5	194.6	591.6	1006.2	1378.8	1539.4	1378.8	1006.2	591.6	194.6	34.4
136.0	195.4	591.8	999.4	1364.0	1525.8	1364.0	999.4	591.8	195.4	33.6
136.5	196.2	591.8	993.2	1349.4	1512.2	1349.4	993.2	591.8	196.2	33.0
137.0	197.0	591.8	987.2	1335.4	1498.6	1335.4	987.2	591.8	197.0	32.4
137.5	197.6	591.6	981.2	1322.0	1484.6	1322.0	981.2	591.6	197.6	31.6
138.0	198.2	590.8	975.0	1309.2	1470.0	1309.2	975.0	590.8	198.2	31.0
138.5	198.6	590.4	969.2	1297.2	1456.8	1297.2	969.2	590.4	198.6	30.4

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139.0	199.0	589.6	963.8	1286.4	1442.4	1286.4	963.8	589.6	199.0	29.8
139.5	199.4	588.4	958.0	1275.6	1429.8	1275.6	958.0	588.4	199.4	29.0
140.0	199.6	587.6	952.8	1264.6	1416.4	1264.6	952.8	587.6	199.6	28.4
140.5	199.8	586.6	947.8	1253.6	1402.8	1253.6	947.8	586.6	199.8	27.6
141.0	200.2	584.8	942.8	1242.6	1388.8	1242.6	942.8	584.8	200.2	27.0
141.5	200.6	582.8	938.2	1231.4	1375.0	1231.4	938.2	582.8	200.6	26.4
142.0	200.6	580.4	933.8	1220.6	1361.0	1220.6	933.8	580.4	200.6	25.6
142.5	200.4	578.2	929.6	1209.4	1346.8	1209.4	929.6	578.2	200.4	24.0
143.0	200.8	575.6	925.4	1198.0	1333.6	1198.0	925.4	575.6	200.8	24.4
143.5	200.8	571.8	920.2	1186.6	1318.2	1186.6	920.2	571.8	200.8	26.0
144.0	200.8	567.8	915.2	1175.4	1301.2	1175.4	915.2	567.8	200.8	29.2
144.5	200.8	564.4	909.8	1163.8	1282.4	1163.8	909.8	564.4	200.8	32.6
145.0	200.6	559.8	903.6	1152.0	1262.6	1152.0	903.6	559.8	200.6	36.4
145.5	200.6	555.6	897.2	1140.8	1240.4	1140.8	897.2	555.6	200.6	40.0
146.0	200.4	550.6	890.8	1129.2	1219.0	1129.2	890.8	550.6	200.4	43.6
146.5	200.4	546.6	884.2	1117.6	1198.4	1117.6	884.2	546.6	200.4	47.0
147.0	200.4	541.2	877.4	1105.8	1177.8	1105.8	877.4	541.2	200.4	50.4
147.5	200.4	536.0	870.4	1094.2	1159.6	1094.2	870.4	536.0	200.4	54.0
148.0	200.4	530.6	863.8	1082.2	1142.2	1082.2	863.8	530.6	200.4	57.4
148.5	200.4	524.6	856.6	1070.6	1126.6	1070.6	856.6	524.6	200.4	60.8
149.0	200.4	519.2	849.6	1058.6	1114.8	1058.6	849.6	519.2	200.4	64.4
149.5	200.4	513.2	841.6	1046.6	1102.6	1046.6	841.6	513.2	200.4	67.8
150.0	200.4	507.4	833.0	1034.6	1092.4	1034.6	833.0	507.4	200.4	71.2
150.5	200.6	501.8	824.0	1022.4	1081.8	1022.4	824.0	501.8	200.6	74.8
151.0	200.6	495.8	813.4	1010.4	1070.4	1010.4	813.4	495.8	200.6	78.4
151.5	200.8	490.0	802.6	998.0	1059.6	998.0	802.6	490.0	200.8	81.8
152.0	201.0	484.0	791.8	985.8	1047.4	985.8	791.8	484.0	201.0	85.0
152.5	201.2	477.6	781.0	973.8	1036.0	973.8	781.0	477.6	201.2	88.2
153.0	201.8	471.4	769.4	961.6	1024.4	961.6	769.4	471.4	201.8	91.2
153.5	202.0	464.6	757.8	949.2	1012.8	949.2	757.8	464.6	202.0	94.2
154.0	202.0	458.4	745.8	937.4	1000.8	937.4	745.8	458.4	202.0	97.0
154.5	201.8	451.8	734.2	925.8	988.0	925.8	734.2	451.8	201.8	100.0
155.0	201.6	445.2	723.4	914.8	976.6	914.8	723.4	445.2	201.6	102.8
155.5	201.2	438.2	711.8	904.4	964.4	904.4	711.8	438.2	201.2	105.4
156.0	201.2	430.8	700.4	894.2	952.8	894.2	700.4	430.8	201.2	108.4
156.5	201.2	423.4	689.6	883.6	940.6	883.6	689.6	423.4	201.2	111.2
157.0	201.0	416.4	678.6	872.8	928.8	872.8	678.6	416.4	201.0	114.0
157.5	200.8	408.6	667.2	861.0	916.2	861.0	667.2	408.6	200.8	117.0
158.0	200.6	401.6	656.8	848.2	903.8	848.2	656.8	401.6	200.6	120.2
158.5	200.2	395.0	644.4	835.6	891.8	835.6	644.4	395.0	200.2	123.4
159.0	200.0	388.2	632.4	822.2	878.6	822.2	632.4	388.2	200.0	126.8
159.5	199.8	382.2	619.8	809.0	865.4	809.0	619.8	382.2	199.8	130.2
160.0	200.4	376.0	608.2	796.0	851.8	796.0	608.2	376.0	200.4	133.2
160.5	201.8	370.4	595.2	783.0	838.2	783.0	595.2	370.4	201.8	136.4
161.0	203.4	364.6	582.8	769.0	823.8	769.0	582.8	364.6	203.4	139.8
161.5	205.2	359.2	570.2	753.8	809.2	753.8	570.2	359.2	205.2	143.2
162.0	207.0	354.0	557.2	738.4	794.0	738.4	557.2	354.0	207.0	146.8
162.5	209.2	349.4	545.0	720.6	779.0	720.6	545.0	349.4	209.2	150.6
163.0	211.6	345.4	532.4	701.6	764.0	701.6	532.4	345.4	211.6	154.6
163.5	214.0	340.8	519.8	682.0	748.2	682.0	519.8	340.8	214.0	159.0
164.0	216.6	337.0	506.6	662.2	732.8	662.2	506.6	337.0	216.6	163.4
164.5	219.4	332.0	493.8	642.8	716.6	642.8	493.8	332.0	219.4	167.8
165.0	222.4	328.0	480.4	623.6	700.8	623.6	480.4	328.0	222.4	172.0
165.5	225.2	324.0	467.4	604.0	684.4	604.0	467.4	324.0	225.2	176.2
166.0	228.2	320.2	453.6	585.0	668.6	585.0	453.6	320.2	228.2	180.6
166.5	231.4	316.8	440.2	566.4	652.8	566.4	440.2	316.8	231.4	184.8

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167.0	234.2	313.0	427.4	548.0	637.2	548.0	427.4	313.0	234.2	189.2
167.5	236.8	309.8	415.0	529.4	622.8	529.4	415.0	309.8	236.8	193.6
168.0	239.4	305.8	403.4	511.6	608.6	511.6	403.4	305.8	239.4	197.8
168.5	242.2	303.4	392.4	493.8	594.4	493.8	392.4	303.4	242.2	202.4
169.0	244.6	300.6	381.2	476.0	579.4	476.0	381.2	300.6	244.6	206.6
169.5	247.0	297.6	371.0	457.4	564.6	457.4	371.0	297.6	247.0	210.2
170.0	249.2	295.2	361.2	438.8	548.6	438.8	361.2	295.2	249.2	213.8
170.5	251.2	292.4	352.2	420.0	532.2	420.0	352.2	292.4	251.2	217.6
171.0	253.4	289.6	342.6	401.4	515.2	401.4	342.6	289.6	253.4	221.4
171.5	255.6	287.2	333.4	383.4	498.0	383.4	333.4	287.2	255.6	225.2
172.0	257.4	284.6	324.0	367.4	479.6	367.4	324.0	284.6	257.4	228.8
172.5	258.4	282.4	315.4	352.0	455.0	352.0	315.4	282.4	258.4	231.8
173.0	260.2	280.2	307.8	337.6	421.2	337.6	307.8	280.2	260.2	234.8
173.5	261.4	278.4	300.6	324.6	386.4	324.6	300.6	278.4	261.4	237.6
174.0	263.0	276.6	294.0	311.0	343.6	311.0	294.0	276.6	263.0	240.2
174.5	265.2	274.8	288.0	296.4	293.0	296.4	288.0	274.8	265.2	242.8
175.0	267.4	273.2	283.0	282.2	237.0	282.2	283.0	273.2	267.4	245.4
175.5	269.6	271.4	278.0	269.0	181.6	269.0	278.0	271.4	269.6	248.6
176.0	271.4	270.2	272.8	257.6	154.0	257.6	272.8	270.2	271.4	251.2
176.5	273.2	269.0	268.0	247.0	149.4	247.0	268.0	269.0	273.2	253.0
177.0	274.2	268.0	264.0	236.2	144.4	236.2	264.0	268.0	274.2	254.8
177.5	275.0	267.6	261.6	225.2	140.0	225.2	261.6	267.6	275.0	256.8
178.0	276.0	267.6	259.2	215.0	135.8	215.0	259.2	267.6	276.0	258.8
178.5	276.8	266.8	256.2	204.8	132.0	204.8	256.2	266.8	276.8	260.6
179.0	278.0	266.6	253.2	195.8	128.4	195.8	253.2	266.6	278.0	262.4
179.5	277.8	264.8	250.2	186.8	125.2	186.8	250.2	264.8	277.8	263.6
180.0	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4	222.4

Vert. Horizontal Angles
Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	2678.0	2678.0	2678.0	2678.0	2678.0	2678.0	2678.0
0.5	2666.0	2668.0	2674.0	2668.0	2666.0	2674.0	2686.0
1.0	2662.0	2666.0	2666.0	2666.0	2662.0	2670.0	2684.0
1.5	2656.0	2654.0	2658.0	2654.0	2656.0	2664.0	2684.0
2.0	2648.0	2648.0	2650.0	2648.0	2648.0	2660.0	2682.0
2.5	2642.0	2644.0	2644.0	2644.0	2642.0	2656.0	2678.0
3.0	2636.0	2634.0	2634.0	2634.0	2636.0	2650.0	2682.0
3.5	2630.0	2628.0	2624.0	2628.0	2630.0	2648.0	2678.0
4.0	2624.0	2618.0	2620.0	2618.0	2624.0	2642.0	2674.0
4.5	2616.0	2612.0	2612.0	2612.0	2616.0	2634.0	2672.0
5.0	2606.0	2602.0	2600.0	2602.0	2606.0	2626.0	2668.0
5.5	2602.0	2594.0	2586.0	2594.0	2602.0	2622.0	2666.0
6.0	2594.0	2582.0	2580.0	2582.0	2594.0	2616.0	2664.0
6.5	2584.0	2576.0	2576.0	2576.0	2584.0	2610.0	2664.0
7.0	2578.0	2568.0	2562.0	2568.0	2578.0	2600.0	2654.0
7.5	2564.0	2556.0	2552.0	2556.0	2564.0	2594.0	2648.0
8.0	2556.0	2548.0	2542.0	2548.0	2556.0	2588.0	2642.0
8.5	2552.0	2536.0	2536.0	2536.0	2552.0	2578.0	2640.0
9.0	2542.0	2528.0	2524.0	2528.0	2542.0	2570.0	2632.0
9.5	2532.0	2518.0	2516.0	2518.0	2532.0	2564.0	2628.0
10.0	2518.0	2506.0	2502.0	2506.0	2518.0	2554.0	2624.0
10.5	2510.0	2496.0	2494.0	2496.0	2510.0	2544.0	2616.0
11.0	2498.0	2486.0	2478.0	2486.0	2498.0	2536.0	2608.0
11.5	2490.0	2474.0	2472.0	2474.0	2490.0	2530.0	2602.0
12.0	2478.0	2464.0	2464.0	2464.0	2478.0	2518.0	2596.0

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12.5	2468.0	2452.0	2448.0	2452.0	2468.0	2510.0	2586.0
13.0	2458.0	2442.0	2440.0	2442.0	2458.0	2498.0	2578.0
13.5	2450.0	2428.0	2424.0	2428.0	2450.0	2486.0	2570.0
14.0	2436.0	2418.0	2416.0	2418.0	2436.0	2476.0	2562.0
14.5	2424.0	2414.0	2410.0	2414.0	2424.0	2466.0	2554.0
15.0	2416.0	2402.0	2398.0	2402.0	2416.0	2456.0	2542.0
15.5	2404.0	2390.0	2384.0	2390.0	2404.0	2442.0	2536.0
16.0	2394.0	2376.0	2368.0	2376.0	2394.0	2436.0	2526.0
16.5	2382.0	2362.0	2356.0	2362.0	2382.0	2422.0	2512.0
17.0	2368.0	2348.0	2342.0	2348.0	2368.0	2408.0	2500.0
17.5	2354.0	2332.0	2328.0	2332.0	2354.0	2398.0	2492.0
18.0	2342.0	2318.0	2314.0	2318.0	2342.0	2386.0	2480.0
18.5	2328.0	2304.0	2300.0	2304.0	2328.0	2376.0	2472.0
19.0	2312.0	2290.0	2286.0	2290.0	2312.0	2362.0	2458.0
19.5	2298.0	2276.0	2272.0	2276.0	2298.0	2348.0	2446.0
20.0	2282.0	2262.0	2256.0	2262.0	2282.0	2334.0	2436.0
20.5	2268.0	2248.0	2242.0	2248.0	2268.0	2320.0	2424.0
21.0	2252.0	2232.0	2228.0	2232.0	2252.0	2304.0	2414.0
21.5	2236.0	2218.0	2214.0	2218.0	2236.0	2290.0	2408.0
22.0	2222.0	2202.0	2200.0	2202.0	2222.0	2276.0	2398.0
22.5	2206.0	2188.0	2186.0	2188.0	2206.0	2258.0	2384.0
23.0	2190.0	2172.0	2172.0	2172.0	2190.0	2244.0	2368.0
23.5	2174.0	2158.0	2158.0	2158.0	2174.0	2228.0	2354.0
24.0	2158.0	2142.0	2144.0	2142.0	2158.0	2212.0	2340.0
24.5	2142.0	2128.0	2128.0	2128.0	2142.0	2196.0	2326.0
25.0	2126.0	2114.0	2114.0	2114.0	2126.0	2180.0	2310.0
25.5	2110.0	2098.0	2100.0	2098.0	2110.0	2164.0	2294.0
26.0	2092.0	2084.0	2084.0	2084.0	2092.0	2148.0	2278.0
26.5	2076.0	2068.0	2070.0	2068.0	2076.0	2130.0	2264.0
27.0	2060.0	2054.0	2056.0	2054.0	2060.0	2114.0	2246.0
27.5	2042.0	2038.0	2040.0	2038.0	2042.0	2096.0	2232.0
28.0	2026.0	2022.0	2026.0	2022.0	2026.0	2080.0	2216.0
28.5	2008.0	2008.0	2010.0	2008.0	2008.0	2064.0	2200.0
29.0	1991.2	1992.2	1995.4	1992.2	1991.2	2046.0	2184.0
29.5	1974.4	1976.4	1981.0	1976.4	1974.4	2028.0	2168.0
30.0	1957.0	1960.8	1966.6	1960.8	1957.0	2010.0	2152.0
30.5	1939.8	1946.2	1951.6	1946.2	1939.8	1993.2	2134.0
31.0	1922.6	1930.8	1936.4	1930.8	1922.6	1975.6	2116.0
31.5	1905.8	1915.4	1921.8	1915.4	1905.8	1957.0	2100.0
32.0	1888.8	1900.0	1906.4	1900.0	1888.8	1938.4	2084.0
32.5	1871.0	1884.6	1890.4	1884.6	1871.0	1920.2	2066.0
33.0	1853.4	1868.8	1876.2	1868.8	1853.4	1901.8	2048.0
33.5	1835.8	1853.2	1860.6	1853.2	1835.8	1882.8	2030.0
34.0	1819.4	1837.4	1845.0	1837.4	1819.4	1862.8	2012.0
34.5	1801.8	1821.4	1829.6	1821.4	1801.8	1844.4	1995.0
35.0	1784.8	1805.8	1813.0	1805.8	1784.8	1825.0	1976.8
35.5	1767.0	1790.0	1796.8	1790.0	1767.0	1805.4	1958.4
36.0	1750.4	1773.2	1780.8	1773.2	1750.4	1786.4	1940.2
36.5	1732.8	1756.6	1765.8	1756.6	1732.8	1766.4	1921.0
37.0	1715.4	1740.0	1749.4	1740.0	1715.4	1746.4	1901.8
37.5	1697.8	1723.8	1733.6	1723.8	1697.8	1727.2	1882.4
38.0	1680.6	1707.2	1717.6	1707.2	1680.6	1707.4	1863.2
38.5	1663.0	1690.6	1701.6	1690.6	1663.0	1688.2	1843.8
39.0	1646.2	1673.4	1685.0	1673.4	1646.2	1669.0	1824.6
39.5	1628.6	1657.0	1668.8	1657.0	1628.6	1649.0	1804.6
40.0	1611.4	1640.0	1652.6	1640.0	1611.4	1629.6	1785.0

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40.5	1594.0	1623.2	1635.8	1623.2	1594.0	1609.6	1765.4
41.0	1576.2	1606.6	1619.8	1606.6	1576.2	1590.8	1745.6
41.5	1558.6	1589.8	1603.6	1589.8	1558.6	1571.4	1725.6
42.0	1540.6	1572.6	1587.8	1572.6	1540.6	1551.8	1706.0
42.5	1523.4	1556.2	1571.8	1556.2	1523.4	1532.2	1686.6
43.0	1505.6	1539.6	1555.0	1539.6	1505.6	1512.8	1666.0
43.5	1487.6	1522.6	1538.6	1522.6	1487.6	1492.8	1646.0
44.0	1469.8	1505.6	1521.6	1505.6	1469.8	1473.4	1626.0
44.5	1451.6	1489.6	1504.8	1489.6	1451.6	1453.6	1606.6
45.0	1434.0	1472.4	1488.0	1472.4	1434.0	1433.8	1586.2
45.5	1416.2	1455.6	1471.4	1455.6	1416.2	1414.4	1566.4
46.0	1398.2	1438.6	1454.2	1438.6	1398.2	1394.8	1546.4
46.5	1379.8	1422.2	1437.4	1422.2	1379.8	1374.6	1526.4
47.0	1361.6	1405.0	1423.0	1405.0	1361.6	1355.2	1506.0
47.5	1343.8	1387.8	1409.0	1387.8	1343.8	1335.4	1486.2
48.0	1325.6	1370.0	1394.4	1370.0	1325.6	1315.8	1466.2
48.5	1307.2	1353.4	1380.4	1353.4	1307.2	1296.0	1446.6
49.0	1289.8	1336.8	1366.2	1336.8	1289.8	1276.4	1426.2
49.5	1272.0	1321.4	1351.8	1321.4	1272.0	1256.6	1406.6
50.0	1254.2	1306.2	1337.2	1306.2	1254.2	1237.0	1386.8
50.5	1235.4	1291.2	1322.6	1291.2	1235.4	1217.4	1366.6
51.0	1217.2	1276.8	1308.2	1276.8	1217.2	1197.6	1346.2
51.5	1199.6	1261.8	1294.8	1261.8	1199.6	1178.2	1326.2
52.0	1182.0	1247.2	1280.2	1247.2	1182.0	1158.8	1306.6
52.5	1164.8	1232.4	1267.0	1232.4	1164.8	1140.0	1286.6
53.0	1146.8	1217.8	1253.0	1217.8	1146.8	1120.2	1266.2
53.5	1129.2	1203.6	1239.2	1203.6	1129.2	1101.4	1246.8
54.0	1111.4	1189.6	1225.6	1189.6	1111.4	1082.4	1227.0
54.5	1093.8	1175.6	1211.4	1175.6	1093.8	1064.0	1206.8
55.0	1076.4	1161.2	1199.0	1161.2	1076.4	1045.2	1187.2
55.5	1059.4	1146.8	1185.0	1146.8	1059.4	1027.2	1167.2
56.0	1042.6	1133.2	1171.8	1133.2	1042.6	1008.4	1147.2
56.5	1026.4	1119.0	1158.6	1119.0	1026.4	990.4	1126.8
57.0	1010.2	1104.8	1144.6	1104.8	1010.2	972.0	1107.4
57.5	995.0	1090.8	1130.6	1090.8	995.0	953.8	1086.4
58.0	979.8	1077.0	1116.8	1077.0	979.8	935.6	1065.8
58.5	964.4	1062.6	1103.2	1062.6	964.4	917.4	1045.4
59.0	948.8	1049.2	1089.8	1049.2	948.8	899.4	1025.2
59.5	934.2	1035.2	1076.4	1035.2	934.2	881.2	1004.6
60.0	918.2	1021.2	1062.6	1021.2	918.2	863.2	983.4
60.5	903.6	1007.4	1049.4	1007.4	903.6	844.8	963.0
61.0	889.0	993.4	1036.2	993.4	889.0	826.6	942.2
61.5	874.0	980.2	1023.0	980.2	874.0	808.2	922.2
62.0	859.4	966.6	1010.4	966.6	859.4	790.2	901.4
62.5	844.8	953.6	997.4	953.6	844.8	771.6	881.0
63.0	830.2	940.6	984.8	940.6	830.2	753.8	860.0
63.5	815.8	927.4	971.4	927.4	815.8	735.6	839.6
64.0	801.2	914.2	958.0	914.2	801.2	717.2	819.0
64.5	787.2	901.0	945.2	901.0	787.2	698.6	799.0
65.0	773.4	888.4	932.4	888.4	773.4	681.4	778.4
65.5	759.6	875.2	919.8	875.2	759.6	662.8	758.4
66.0	746.0	862.2	905.8	862.2	746.0	645.2	738.2
66.5	732.6	849.2	893.6	849.2	732.6	627.8	718.0
67.0	718.6	835.8	880.4	835.8	718.6	609.8	697.6
67.5	705.2	823.2	867.4	823.2	705.2	592.4	677.2
68.0	691.8	810.8	855.2	810.8	691.8	575.0	657.4

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CANDELA TABULATION - (Cont.)

68.5	678.8	797.2	842.8	797.2	678.8	558.0	637.6
69.0	665.8	784.6	829.4	784.6	665.8	541.8	618.0
69.5	653.0	771.8	817.2	771.8	653.0	525.2	598.2
70.0	640.4	759.0	803.6	759.0	640.4	509.6	578.6
70.5	627.6	746.4	790.8	746.4	627.6	494.0	559.4
71.0	614.4	733.6	778.6	733.6	614.4	479.0	540.0
71.5	601.6	721.0	766.2	721.0	601.6	464.6	520.6
72.0	589.6	708.0	753.8	708.0	589.6	450.4	501.4
72.5	577.0	695.8	741.2	695.8	577.0	436.0	482.2
73.0	564.8	683.6	728.2	683.6	564.8	422.0	463.2
73.5	552.4	671.4	715.8	671.4	552.4	408.6	444.2
74.0	540.4	659.4	703.4	659.4	540.4	394.4	425.6
74.5	528.0	647.0	691.2	647.0	528.0	381.2	407.4
75.0	516.0	635.0	679.4	635.0	516.0	368.2	389.6
75.5	504.2	623.0	667.8	623.0	504.2	355.6	371.0
76.0	491.8	611.2	655.4	611.2	491.8	342.8	353.4
76.5	480.6	599.6	644.2	599.6	480.6	330.4	335.6
77.0	468.8	588.2	632.0	588.2	468.8	318.4	318.0
77.5	458.0	576.6	619.8	576.6	458.0	306.2	300.8
78.0	446.2	565.2	608.8	565.2	446.2	294.8	284.2
78.5	435.2	554.0	597.6	554.0	435.2	283.6	267.2
79.0	424.2	543.0	586.6	543.0	424.2	272.2	251.0
79.5	413.2	532.4	575.0	532.4	413.2	261.2	234.8
80.0	403.0	521.4	564.0	521.4	403.0	250.4	219.0
80.5	392.4	511.4	553.4	511.4	392.4	239.6	203.6
81.0	382.4	500.8	543.4	500.8	382.4	229.4	188.4
81.5	372.6	490.2	532.8	490.2	372.6	219.4	173.6
82.0	362.4	480.4	523.4	480.4	362.4	209.6	159.4
82.5	352.6	470.4	513.0	470.4	352.6	200.0	145.6
83.0	343.4	461.0	503.8	461.0	343.4	190.6	132.2
83.5	334.0	451.8	494.4	451.8	334.0	181.6	119.0
84.0	325.6	443.0	485.2	443.0	325.6	173.0	106.6
84.5	317.0	433.6	476.6	433.6	317.0	164.6	94.8
85.0	308.8	425.6	468.2	425.6	308.8	156.6	83.2
85.5	300.8	417.4	459.6	417.4	300.8	149.2	72.8
86.0	293.4	409.4	451.8	409.4	293.4	142.2	62.6
86.5	286.2	402.0	444.4	402.0	286.2	135.8	53.2
87.0	279.4	395.2	437.4	395.2	279.4	129.8	44.8
87.5	273.6	388.8	430.4	388.8	273.6	124.6	37.4
88.0	268.0	383.0	425.0	383.0	268.0	120.0	31.2
88.5	263.2	377.6	419.4	377.6	263.2	116.0	26.0
89.0	258.4	372.4	414.0	372.4	258.4	112.2	22.2
89.5	254.8	368.0	409.0	368.0	254.8	109.0	19.8
90.0	251.0	363.4	404.4	363.4	251.0	106.2	18.8
90.5	247.0	359.6	399.8	359.6	247.0	103.6	18.4
91.0	243.8	355.0	395.8	355.0	243.8	101.4	18.4
91.5	240.2	351.4	391.8	351.4	240.2	99.2	18.8
92.0	236.8	347.4	387.2	347.4	236.8	97.2	19.2
92.5	233.6	343.4	382.8	343.4	233.6	95.4	20.0
93.0	230.4	339.6	378.8	339.6	230.4	93.4	20.8
93.5	227.2	335.8	374.4	335.8	227.2	91.8	22.0
94.0	224.0	331.8	370.6	331.8	224.0	90.6	23.2
94.5	221.0	328.0	365.8	328.0	221.0	89.4	24.4
95.0	218.2	324.2	361.8	324.2	218.2	88.6	26.0
95.5	215.2	320.4	358.2	320.4	215.2	87.8	27.4
96.0	212.4	316.6	354.4	316.6	212.4	87.4	29.0

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CANDELA TABULATION - (Cont.)

96.5	209.6	313.6	350.4	313.6	209.6	87.0	30.8
97.0	207.0	309.8	347.0	309.8	207.0	86.8	32.8
97.5	204.6	306.0	343.0	306.0	204.6	86.8	34.8
98.0	202.6	302.8	339.2	302.8	202.6	86.6	36.8
98.5	200.8	298.8	335.8	298.8	200.8	86.8	38.8
99.0	199.2	295.8	332.6	295.8	199.2	87.2	41.2
99.5	198.0	292.4	329.0	292.4	198.0	87.6	43.4
100.0	197.0	289.0	325.4	289.0	197.0	88.2	45.8
100.5	195.8	286.4	322.0	286.4	195.8	89.0	48.2
101.0	194.6	284.4	318.6	284.4	194.6	90.0	50.6
101.5	193.4	282.2	315.4	282.2	193.4	90.8	53.2
102.0	192.2	281.0	313.4	281.0	192.2	91.8	55.8
102.5	191.2	279.0	311.8	279.0	191.2	93.0	58.2
103.0	190.2	278.0	310.4	278.0	190.2	94.2	60.4
103.5	189.2	276.0	308.0	276.0	189.2	95.2	62.8
104.0	188.4	274.2	306.0	274.2	188.4	96.4	65.4
104.5	187.6	272.8	304.2	272.8	187.6	97.6	68.0
105.0	187.0	270.8	302.2	270.8	187.0	98.8	70.4
105.5	186.4	269.0	300.4	269.0	186.4	100.0	73.0
106.0	185.8	267.2	298.4	267.2	185.8	101.2	75.4
106.5	185.4	265.4	296.0	265.4	185.4	102.4	77.8
107.0	185.4	264.0	294.4	264.0	185.4	103.6	80.0
107.5	185.2	262.2	291.8	262.2	185.2	104.6	82.4
108.0	185.2	260.8	290.4	260.8	185.2	105.4	84.6
108.5	185.4	259.4	288.6	259.4	185.4	106.2	86.8
109.0	185.8	258.0	286.8	258.0	185.8	106.6	89.0
109.5	186.0	256.4	284.2	256.4	186.0	107.0	91.0
110.0	186.4	255.2	282.4	255.2	186.4	107.4	93.0
110.5	187.2	253.6	281.6	253.6	187.2	108.0	94.8
111.0	187.8	252.8	279.8	252.8	187.8	108.4	96.6
111.5	188.8	251.8	278.0	251.8	188.8	107.4	98.6
112.0	189.8	251.0	277.0	251.0	189.8	105.6	100.4
112.5	190.8	250.2	275.8	250.2	190.8	103.2	102.4
113.0	191.8	249.4	274.4	249.4	191.8	99.6	104.2
113.5	193.0	249.2	273.6	249.2	193.0	95.4	106.0
114.0	194.0	248.8	272.8	248.8	194.0	91.4	108.2
114.5	195.0	248.4	271.8	248.4	195.0	87.4	110.0
115.0	196.2	249.0	271.4	249.0	196.2	83.6	111.8
115.5	197.4	248.8	271.0	248.8	197.4	79.8	113.8
116.0	198.6	249.0	270.8	249.0	198.6	75.6	115.8
116.5	199.6	249.4	270.2	249.4	199.6	71.4	117.6
117.0	201.0	250.2	269.8	250.2	201.0	67.4	119.4
117.5	202.2	250.6	269.4	250.6	202.2	63.4	121.2
118.0	203.4	251.4	270.0	251.4	203.4	59.8	123.0
118.5	204.6	252.8	270.0	252.8	204.6	57.2	125.0
119.0	205.8	253.6	270.8	253.6	205.8	55.6	126.8
119.5	207.0	254.2	271.6	254.2	207.0	54.2	128.8
120.0	208.4	255.6	272.2	255.6	208.4	53.4	130.6
120.5	209.6	256.4	273.4	256.4	209.6	53.0	132.6
121.0	210.2	257.4	273.8	257.4	210.2	52.4	134.4
121.5	210.6	258.2	275.0	258.2	210.6	51.6	136.4
122.0	210.6	259.2	275.6	259.2	210.6	51.2	138.2
122.5	210.4	259.4	276.2	259.4	210.4	50.6	140.4
123.0	210.2	260.8	277.2	260.8	210.2	50.0	142.6
123.5	209.6	261.6	277.6	261.6	209.6	49.4	144.6
124.0	209.4	261.8	278.0	261.8	209.4	49.0	146.8

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CANDELA TABULATION - (Cont.)

124.5	209.0	263.0	278.8	263.0	209.0	48.4	149.0
125.0	208.6	263.4	279.6	263.4	208.6	47.6	151.2
125.5	208.4	264.2	280.2	264.2	208.4	47.0	153.6
126.0	208.0	265.2	280.8	265.2	208.0	46.4	155.8
126.5	205.4	265.8	281.2	265.8	205.4	45.8	158.2
127.0	200.6	267.0	282.0	267.0	200.6	45.2	160.6
127.5	193.8	267.8	282.2	267.8	193.8	44.6	163.0
128.0	186.4	268.4	283.2	268.4	186.4	43.8	165.4
128.5	179.2	268.2	283.6	268.2	179.2	43.4	167.8
129.0	172.2	267.8	284.0	267.8	172.2	42.8	170.4
129.5	165.4	266.8	284.8	266.8	165.4	42.0	172.8
130.0	158.6	266.2	285.2	266.2	158.6	41.4	175.4
130.5	151.6	264.8	285.6	264.8	151.6	40.8	177.8
131.0	144.8	263.4	285.2	263.4	144.8	40.0	180.0
131.5	138.0	262.2	284.2	262.2	138.0	39.4	182.4
132.0	130.8	260.8	283.2	260.8	130.8	38.8	184.4
132.5	123.2	260.2	281.6	260.2	123.2	38.2	186.4
133.0	115.4	259.0	280.2	259.0	115.4	37.6	188.2
133.5	108.0	257.4	278.6	257.4	108.0	37.0	189.8
134.0	101.4	254.6	277.4	254.6	101.4	36.2	191.4
134.5	95.6	248.0	275.4	248.0	95.6	35.6	192.4
135.0	90.6	239.0	273.8	239.0	90.6	35.0	193.6
135.5	87.0	229.2	272.4	229.2	87.0	34.4	194.6
136.0	84.6	220.0	270.6	220.0	84.6	33.6	195.4
136.5	83.0	210.8	265.2	210.8	83.0	33.0	196.2
137.0	81.8	201.6	255.2	201.6	81.8	32.4	197.0
137.5	80.4	192.6	244.4	192.6	80.4	31.6	197.6
138.0	79.0	183.8	234.2	183.8	79.0	31.0	198.2
138.5	77.8	175.0	224.0	175.0	77.8	30.4	198.6
139.0	76.2	166.0	214.0	166.0	76.2	29.8	199.0
139.5	75.0	156.8	204.0	156.8	75.0	29.0	199.4
140.0	73.8	147.2	193.8	147.2	73.8	28.4	199.6
140.5	72.2	136.8	184.2	136.8	72.2	27.6	199.8
141.0	70.8	126.6	174.2	126.6	70.8	27.0	200.2
141.5	69.4	118.4	164.4	118.4	69.4	26.4	200.6
142.0	68.0	110.4	154.4	110.4	68.0	25.6	200.6
142.5	65.6	103.0	142.2	103.0	65.6	24.0	200.4
143.0	64.8	98.2	131.6	98.2	64.8	24.4	200.8
143.5	63.4	95.0	122.2	95.0	63.4	26.0	200.8
144.0	62.0	93.0	114.0	93.0	62.0	29.2	200.8
144.5	60.8	91.2	106.4	91.2	60.8	32.6	200.8
145.0	59.4	89.2	100.4	89.2	59.4	36.4	200.6
145.5	58.0	87.2	96.6	87.2	58.0	40.0	200.6
146.0	56.6	85.2	94.0	85.2	56.6	43.6	200.4
146.5	55.2	83.2	91.8	83.2	55.2	47.0	200.4
147.0	53.6	81.0	89.8	81.0	53.6	50.4	200.4
147.5	52.2	79.0	87.4	79.0	52.2	54.0	200.4
148.0	50.8	76.8	85.2	76.8	50.8	57.4	200.4
148.5	49.4	75.0	83.0	75.0	49.4	60.8	200.4
149.0	48.0	73.0	80.8	73.0	48.0	64.4	200.4
149.5	46.8	70.8	78.6	70.8	46.8	67.8	200.4
150.0	45.0	68.6	76.2	68.6	45.0	71.2	200.4
150.5	43.6	66.6	74.0	66.6	43.6	74.8	200.6
151.0	42.2	64.6	71.6	64.6	42.2	78.4	200.6
151.5	40.6	62.6	69.4	62.6	40.6	81.8	200.8
152.0	39.4	60.8	67.2	60.8	39.4	85.0	201.0

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152.5	38.0	58.8	65.0	58.8	38.0	88.2	201.2
153.0	36.4	56.8	62.8	56.8	36.4	91.2	201.8
153.5	35.0	54.8	60.6	54.8	35.0	94.2	202.0
154.0	33.6	53.0	58.2	53.0	33.6	97.0	202.0
154.5	32.2	50.8	56.2	50.8	32.2	100.0	201.8
155.0	30.8	49.0	54.0	49.0	30.8	102.8	201.6
155.5	29.6	47.2	51.8	47.2	29.6	105.4	201.2
156.0	28.2	45.2	49.8	45.2	28.2	108.4	201.2
156.5	27.0	43.4	47.8	43.4	27.0	111.2	201.2
157.0	25.6	41.6	45.8	41.6	25.6	114.0	201.0
157.5	25.0	39.8	43.6	39.8	25.0	117.0	200.8
158.0	26.8	38.0	41.6	38.0	26.8	120.2	200.6
158.5	32.2	36.2	39.8	36.2	32.2	123.4	200.2
159.0	37.8	34.4	37.8	34.4	37.8	126.8	200.0
159.5	43.4	32.4	35.8	32.4	43.4	130.2	199.8
160.0	49.0	30.8	33.8	30.8	49.0	133.2	200.4
160.5	54.4	29.0	32.2	29.0	54.4	136.4	201.8
161.0	59.6	27.0	30.2	27.0	59.6	139.8	203.4
161.5	64.6	25.4	28.4	25.4	64.6	143.2	205.2
162.0	70.0	23.6	26.4	23.6	70.0	146.8	207.0
162.5	75.6	24.2	24.6	24.2	75.6	150.6	209.2
163.0	81.2	29.4	22.8	29.4	81.2	154.6	211.6
163.5	86.4	36.6	21.0	36.6	86.4	159.0	214.0
164.0	91.4	43.2	23.4	43.2	91.4	163.4	216.6
164.5	95.8	49.6	26.6	49.6	95.8	167.8	219.4
165.0	100.0	55.6	29.8	55.6	100.0	172.0	222.4
165.5	104.6	61.0	32.8	61.0	104.6	176.2	225.2
166.0	109.2	65.8	35.6	65.8	109.2	180.6	228.2
166.5	114.4	71.0	38.6	71.0	114.4	184.8	231.4
167.0	120.0	76.0	41.8	76.0	120.0	189.2	234.2
167.5	126.4	80.8	45.8	80.8	126.4	193.6	236.8
168.0	133.6	84.8	50.2	84.8	133.6	197.8	239.4
168.5	140.6	88.6	54.0	88.6	140.6	202.4	242.2
169.0	146.2	92.2	58.2	92.2	146.2	206.6	244.6
169.5	151.0	95.6	62.0	95.6	151.0	210.2	247.0
170.0	156.2	99.4	66.0	99.4	156.2	213.8	249.2
170.5	161.2	104.0	70.6	104.0	161.2	217.6	251.2
171.0	165.6	107.6	75.8	107.6	165.6	221.4	253.4
171.5	170.0	110.2	80.6	110.2	170.0	225.2	255.6
172.0	174.2	112.0	84.6	112.0	174.2	228.8	257.4
172.5	178.4	113.2	88.2	113.2	178.4	231.8	258.4
173.0	182.8	114.6	91.8	114.6	182.8	234.8	260.2
173.5	187.4	116.2	95.4	116.2	187.4	237.6	261.4
174.0	191.8	118.6	98.8	118.6	191.8	240.2	263.0
174.5	196.2	121.8	102.2	121.8	196.2	242.8	265.2
175.0	200.8	124.8	105.4	124.8	200.8	245.4	267.4
175.5	205.4	127.8	107.6	127.8	205.4	248.6	269.6
176.0	210.0	131.2	109.2	131.2	210.0	251.2	271.4
176.5	214.6	135.0	110.8	135.0	214.6	253.0	273.2
177.0	219.4	139.6	112.2	139.6	219.4	254.8	274.2
177.5	224.0	144.8	113.6	144.8	224.0	256.8	275.0
178.0	228.6	150.8	115.0	150.8	228.6	258.8	276.0
178.5	233.4	157.2	116.4	157.2	233.4	260.6	276.8
179.0	238.0	163.8	118.0	163.8	238.0	262.4	278.0
179.5	242.2	170.8	120.2	170.8	242.2	263.6	277.8
180.0	222.4	222.4	222.4	222.4	222.4	222.4	222.4

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 14K 360P-4-RD-835-U10-WA.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	987.20	N.A.	7.00
0-30	2109.8	N.A.	15.00
0-40	3489.25	N.A.	24.80
0-60	6467.83	N.A.	46.00
0-80	9054.76	N.A.	64.30
0-90	10079.12	N.A.	71.60
10-90	9825.08	N.A.	69.80
20-40	2502.06	N.A.	17.80
20-50	3995.81	N.A.	28.40
40-70	4357.27	N.A.	31.00
60-80	2586.92	N.A.	18.40
70-80	1208.23	N.A.	8.60
80-90	1024.36	N.A.	7.30
90-110	1717.92	N.A.	12.20
90-120	2414.31	N.A.	17.20
90-130	2988.93	N.A.	21.20
90-150	3712.42	N.A.	26.40
90-180	3994.3	N.A.	28.40
110-180	2276.39	N.A.	16.20
0-180	14073.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	254.04
10-20	733.16
20-30	1122.61
30-40	1379.45
40-50	1493.76
50-60	1484.82
60-70	1378.69
70-80	1208.23
80-90	1024.36
90-100	908.22
100-110	809.70
110-120	696.39
120-130	574.62
130-140	432.82
140-150	290.67
150-160	174.03
160-170	84.48
170-180	23.36

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 14K 360P-4-RD-835-U10-WA.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	112	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	99	94	88	84	84	94	88	84	80	79	75	72	70	67	65	62	60	58	54
2	89	80	72	66	66	84	76	69	63	68	62	57	60	56	52	53	50	46	43
3	81	70	61	54	54	76	66	58	51	59	52	47	52	47	43	46	42	38	35
4	74	61	52	45	45	69	58	49	43	52	45	39	46	40	36	41	36	32	29
5	67	54	45	38	38	63	51	43	37	46	39	34	41	35	31	36	32	28	25
6	62	48	39	33	33	58	46	38	32	41	34	29	37	31	27	33	28	24	21
7	57	44	35	29	29	54	42	33	28	37	31	25	34	28	23	30	25	21	19
8	53	40	31	25	25	50	38	30	24	34	27	23	31	25	21	27	23	19	17
9	50	36	28	23	23	47	35	27	22	31	25	20	28	23	19	25	21	17	15
10	46	33	25	20	20	44	32	24	20	29	23	18	26	21	17	24	19	15	13

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 14K 360P-4-RD-835-U10-WA.IES

UGR TABLE - CORRECTED

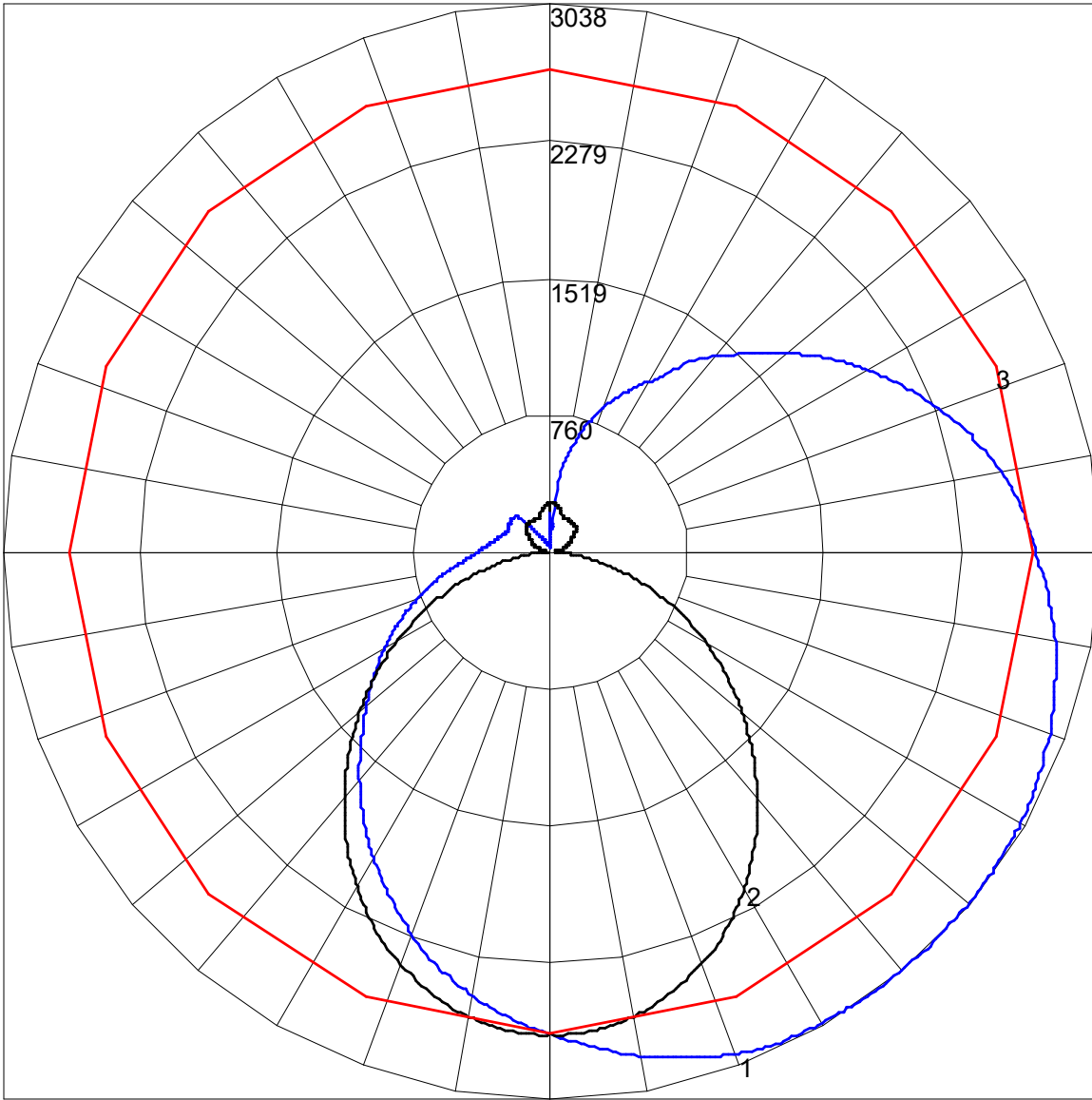
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.5	17.7	17.2	18.5	19.4	23.5	24.7	24.2	25.4	26.3
	3H	17.9	19.0	18.6	19.7	20.7	26.9	28.0	27.6	28.8	29.7
	4H	18.3	19.3	19.0	20.1	21.1	28.7	29.7	29.4	30.5	31.5
	6H	18.5	19.5	19.3	20.3	21.3	30.6	31.6	31.4	32.4	33.4
	8H	18.6	19.5	19.3	20.3	21.3	31.6	32.6	32.4	33.4	34.3
	12H	18.6	19.5	19.4	20.3	21.3	32.7	33.6	33.5	34.4	35.4
4H	2H	18.1	19.2	18.9	19.9	20.9	23.7	24.8	24.5	25.6	26.5
	3H	19.8	20.7	20.5	21.5	22.5	27.4	28.3	28.2	29.2	30.1
	4H	20.4	21.2	21.1	22.0	23.0	29.4	30.3	30.2	31.1	32.1
	6H	20.7	21.5	21.5	22.3	23.3	31.6	32.3	32.4	33.1	34.1
	8H	20.9	21.6	21.7	22.4	23.4	32.7	33.4	33.5	34.2	35.2
	12H	20.9	21.5	21.7	22.4	23.4	33.9	34.6	34.7	35.4	36.4
8H	4H	21.9	22.6	22.7	23.5	24.5	29.6	30.3	30.4	31.1	32.1
	6H	22.6	23.2	23.5	24.1	25.1	31.9	32.5	32.7	33.4	34.4
	8H	22.9	23.4	23.7	24.3	25.3	33.2	33.7	34.0	34.6	35.6
	12H	23.0	23.5	23.9	24.4	25.5	34.6	35.1	35.5	36.0	37.0
12H	4H	22.5	23.1	23.3	24.0	25.0	29.6	30.2	30.4	31.1	32.1
	6H	23.4	23.9	24.3	24.8	25.9	31.9	32.5	32.8	33.3	34.4
	8H	23.8	24.3	24.6	25.1	26.2	33.3	33.8	34.1	34.6	35.7

Maximum UGR = 37.0

POLAR GRAPH



Maximum Candela = 3038 Located At Horizontal Angle = 90, Vertical Angle = 44
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Horizontal Cone Through Vertical Angle (0)