

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949334

Luminaire Tested: **GALN-SB4A-840-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-840-U-SLL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17135 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

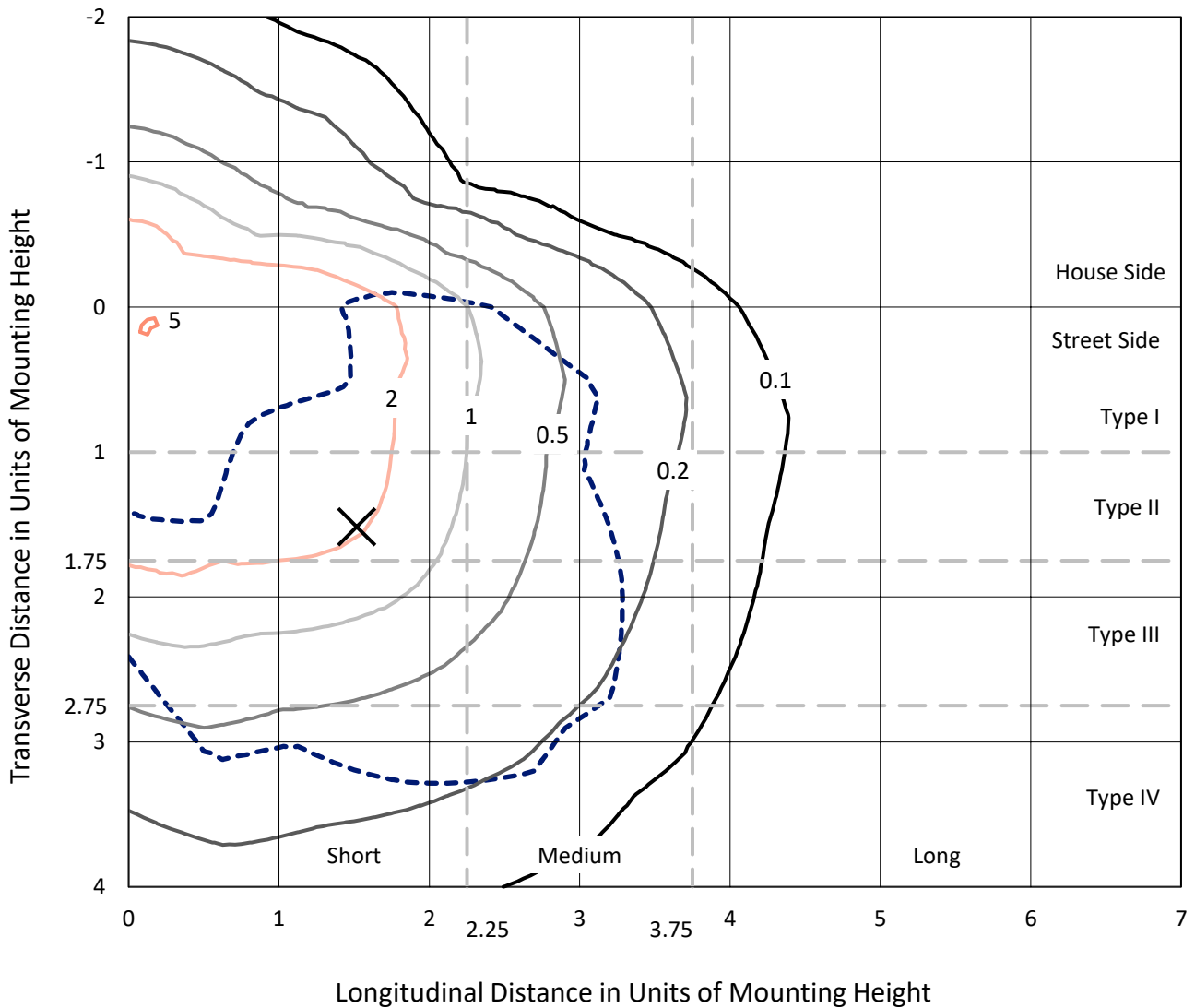
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

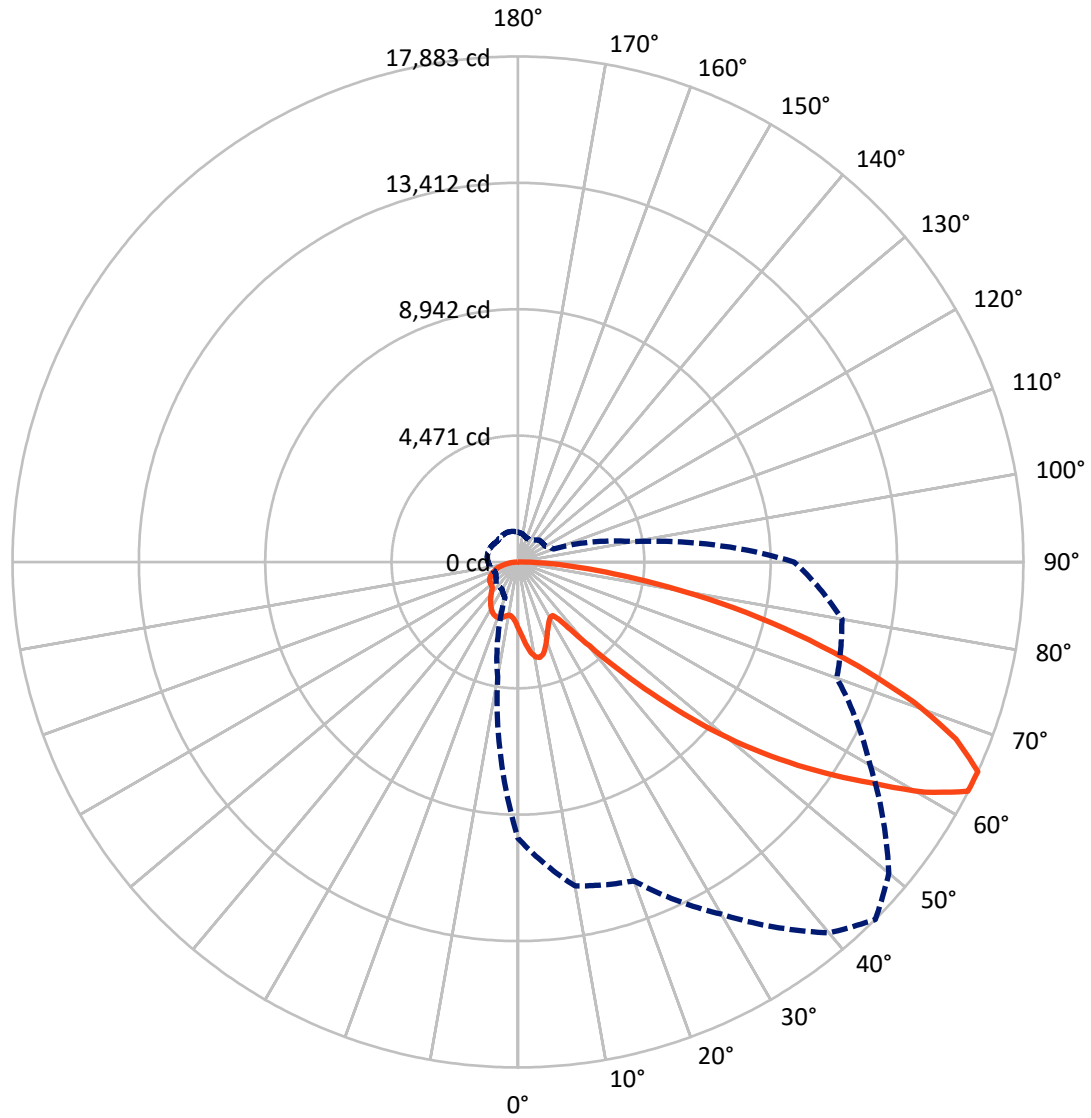
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4354.9	0.0	4354.9
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	12780.1	0.0	12780.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	17135.0	0.0	17135.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.4
10°-20°	733.7	4.3
20°-30°	1133.4	6.6
30°-40°	1436.3	8.4
40°-50°	2166.3	12.6
50°-60°	3499.9	20.4
60°-70°	4363.2	25.5
70°-80°	2861.2	16.7
80°-90°	707.4	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17135.0	100.0
0°-180°	17135.0	100.0



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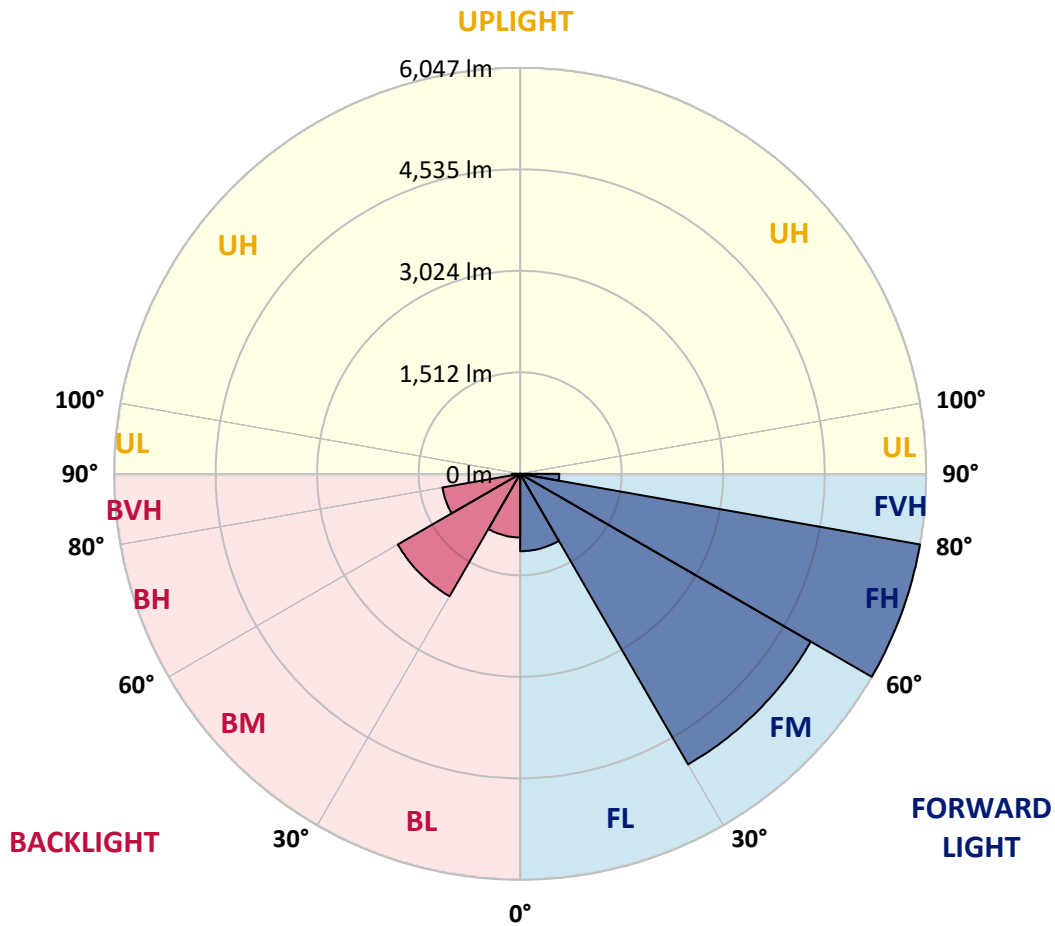
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.5	6.7			
FM (30°-60°)	4997.9	29.2			
FH (60°-80°)	6047.0	35.3			G3/7500
FVH (80°-90°)	582.7	3.4			G4/750
BL (0°-30°)	948.3	5.5	B2/1000		
BM (30°-60°)	2104.5	12.3	B2/2500		
BH (60°-80°)	1177.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	124.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2
2.5°	2533.9	2543.5	2553.1	2566.8	2580.4	2588.6	2596.7	2600.8	2604.9	2603.0
5°	2724.7	2758.2	2791.8	2825.1	2858.5	2876.5	2894.6	2905.6	2916.6	2924.9
7.5°	2916.3	2970.9	3025.5	3074.6	3123.7	3153.2	3182.8	3198.8	3214.7	3222.4
10°	3063.3	3127.8	3192.4	3250.0	3307.6	3342.5	3377.2	3392.7	3408.2	3414.1
12.5°	3153.2	3223.2	3293.1	3345.2	3397.1	3422.4	3447.7	3456.2	3464.7	3465.6
15°	3207.9	3268.3	3328.6	3361.3	3394.0	3394.9	3395.8	3386.8	3377.7	3367.0
17.5°	3238.7	3279.4	3320.2	3320.8	3321.4	3284.8	3248.2	3214.6	3181.0	3157.3
20°	3272.6	3286.8	3301.0	3258.1	3215.2	3134.3	3053.5	2994.6	2935.8	2899.6
22.5°	3311.9	3293.3	3274.6	3185.7	3096.7	2977.8	2858.9	2785.3	2711.7	2671.8
25°	3362.5	3303.8	3245.0	3109.9	2974.8	2830.4	2686.0	2608.6	2531.4	2493.6
27.5°	3431.2	3326.2	3221.0	3042.1	2863.3	2703.2	2543.2	2467.1	2391.0	2355.3
30°	3523.9	3367.2	3210.6	2990.4	2770.1	2603.4	2436.7	2366.1	2295.5	2262.2
32.5°	3633.3	3418.8	3204.3	2955.1	2705.9	2549.2	2392.6	2337.1	2281.6	2257.7
35°	3766.2	3503.7	3241.2	2981.5	2721.9	2613.1	2504.3	2491.4	2478.5	2476.5
37.5°	3990.0	3681.1	3372.3	3136.3	2900.3	2893.3	2886.2	2945.4	3004.5	3035.2
40°	4328.2	3992.3	3656.4	3480.9	3305.4	3429.3	3553.1	3696.9	3840.6	3912.2
42.5°	4776.6	4443.3	4110.1	4009.0	3907.9	4178.1	4448.2	4709.7	4971.2	5124.7
45°	5330.4	5031.0	4731.6	4687.0	4642.3	5075.2	5508.1	5937.7	6367.5	6628.3
47.5°	6023.0	5731.8	5440.4	5431.4	5422.4	6046.8	6671.0	7300.0	7928.9	8298.3
50°	6930.7	6571.0	6211.3	6212.9	6214.4	7019.1	7823.8	8654.1	9484.3	9986.3
52.5°	7972.8	7537.2	7101.6	7057.6	7013.5	7974.7	8935.9	9963.2	10990.4	11592.1
55°	9082.2	8651.8	8221.4	8049.7	7878.0	8947.8	10017.5	11242.2	12466.8	13182.5
57.5°	10091.2	9856.8	9622.4	9278.0	8933.7	10013.9	11094.1	12481.2	13868.3	14755.7
60°	10701.0	11065.1	11429.2	11001.5	10573.8	11596.1	12618.3	14103.4	15588.6	16547.7
62.5°	10391.4	11386.0	12380.7	12332.5	12284.2	13220.6	14157.2	15570.2	16983.1	17869.6
65°	9771.6	10705.1	11638.6	11823.4	12008.0	13198.0	14388.2	15758.3	17128.4	17883.1
67.5°	8941.1	9829.0	10716.9	10803.5	10890.0	12130.0	13369.8	14745.8	16121.9	16713.2
70°	7943.4	8909.1	9874.9	9913.6	9952.4	11061.3	12170.0	13354.2	14538.3	14866.9
72.5°	6754.4	7862.7	8971.0	8998.8	9026.6	9894.1	10761.6	11648.5	12535.3	12568.6
75°	5250.4	6397.4	7544.4	7647.4	7750.4	8425.3	9100.3	9724.6	10348.9	10181.6
77.5°	3751.3	4822.0	5892.8	6040.2	6187.5	6700.6	7213.7	7656.5	8099.4	7811.8
80°	2455.2	3356.0	4256.7	4439.9	4623.1	5010.6	5397.9	5630.5	5862.9	5400.5
82.5°	1427.2	2043.0	2658.9	2863.5	3068.2	3335.0	3601.7	3698.7	3795.6	3432.1
85°	627.9	954.8	1281.6	1455.7	1629.7	1848.9	2068.0	2123.0	2178.1	1887.0
87.5°	194.4	304.2	414.1	511.2	608.3	717.9	827.5	832.2	836.8	702.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
2356.2	0°	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2
2604.9	2.5°	2600.8	2596.7	2588.6	2580.4	2566.8	2553.1	2543.5	2533.9	2514.4	2495.0
2916.6	5°	2905.6	2894.6	2876.5	2858.5	2825.1	2791.8	2758.2	2724.7	2681.7	2638.8
3214.7	7.5°	3198.8	3182.8	3153.2	3123.7	3074.6	3025.5	2970.9	2916.3	2845.4	2774.6
3408.2	10°	3392.7	3377.2	3342.5	3307.6	3250.0	3192.4	3127.8	3063.3	2973.7	2884.1
3464.7	12.5°	3456.2	3447.7	3422.4	3397.1	3345.2	3293.1	3223.2	3153.2	3054.8	2956.4
3377.7	15°	3386.8	3395.8	3394.9	3394.0	3361.3	3328.6	3268.3	3207.9	3105.3	3002.7
3181.0	17.5°	3214.6	3248.2	3284.8	3321.4	3320.8	3320.2	3279.4	3238.7	3134.6	3030.5
2935.8	20°	2994.6	3053.5	3134.3	3215.2	3258.1	3301.0	3286.8	3272.6	3164.4	3056.2
2711.7	22.5°	2785.3	2858.9	2977.8	3096.7	3185.7	3274.6	3293.3	3311.9	3201.4	3090.8
2531.4	25°	2608.6	2686.0	2830.4	2974.8	3109.9	3245.0	3303.8	3362.5	3254.2	3146.0
2391.0	27.5°	2467.1	2543.2	2703.2	2863.3	3042.1	3221.0	3326.2	3431.2	3328.0	3224.6
2295.5	30°	2366.1	2436.7	2603.4	2770.1	2990.4	3210.6	3367.2	3523.9	3424.1	3324.4
2281.6	32.5°	2337.1	2392.6	2549.2	2705.9	2955.1	3204.3	3418.8	3633.3	3534.5	3435.8
2478.5	35°	2491.4	2504.3	2613.1	2721.9	2981.5	3241.2	3503.7	3766.2	3671.7	3577.0
3004.5	37.5°	2945.4	2886.2	2893.3	2900.3	3136.3	3372.3	3681.1	3990.0	3869.4	3748.8
3840.6	40°	3696.9	3553.1	3429.3	3305.4	3480.9	3656.4	3992.3	4328.2	4152.4	3976.6
4971.2	42.5°	4709.7	4448.2	4178.1	3907.9	4009.0	4110.1	4443.3	4776.6	4522.9	4269.2
6367.5	45°	5937.7	5508.1	5075.2	4642.3	4687.0	4731.6	5031.0	5330.4	4988.2	4646.0
7928.9	47.5°	7300.0	6671.0	6046.8	5422.4	5431.4	5440.4	5731.8	6023.0	5541.3	5059.6
9484.3	50°	8654.1	7823.8	7019.1	6214.4	6212.9	6211.3	6571.0	6930.7	6204.6	5478.4
10990.4	52.5°	9963.2	8935.9	7974.7	7013.5	7057.6	7101.6	7537.2	7972.8	6901.4	5829.9
12466.8	55°	11242.2	10017.5	8947.8	7878.0	8049.7	8221.4	8651.8	9082.2	7519.1	5956.1
13868.3	57.5°	12481.2	11094.1	10013.9	8933.7	9278.0	9622.4	9856.8	10091.2	7956.9	5822.5
15588.6	60°	14103.4	12618.3	11596.1	10573.8	11001.5	11429.2	11065.1	10701.0	8066.3	5431.4
16983.1	62.5°	15570.2	14157.2	13220.6	12284.2	12332.5	12380.7	11386.0	10391.4	7605.6	4819.8
17128.4	65°	15758.3	14388.2	13198.0	12008.0	11823.4	11638.6	10705.1	9771.6	6953.8	4136.0
16121.9	67.5°	14745.8	13369.8	12130.0	10890.0	10803.5	10716.9	9829.0	8941.1	6178.1	3415.1
14538.3	70°	13354.2	12170.0	11061.3	9952.4	9913.6	9874.9	8909.1	7943.4	5331.8	2720.1
12535.3	72.5°	11648.5	10761.6	9894.1	9026.6	8998.8	8971.0	7862.7	6754.4	4414.2	2074.1
10348.9	75°	9724.6	9100.3	8425.3	7750.4	7647.4	7544.4	6397.4	5250.4	3362.4	1474.5
8099.4	77.5°	7656.5	7213.7	6700.6	6187.5	6040.2	5892.8	4822.0	3751.3	2353.4	955.5
5862.9	80°	5630.5	5397.9	5010.6	4623.1	4439.9	4256.7	3356.0	2455.2	1516.3	577.3
3795.6	82.5°	3698.7	3601.7	3335.0	3068.2	2863.5	2658.9	2043.0	1427.2	877.6	328.0
2178.1	85°	2123.0	2068.0	1848.9	1629.7	1455.7	1281.6	954.8	627.9	394.8	161.7
836.8	87.5°	832.2	827.5	717.9	608.3	511.2	414.1	304.2	194.4	129.3	64.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
2356.2	0°	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2
2474.3	2.5°	2453.7	2432.9	2412.1	2392.2	2372.3	2353.0	2331.6	2314.3	2297.0	2281.3
2595.9	5°	2553.1	2510.0	2467.0	2426.7	2386.5	2348.5	2311.0	2278.3	2245.5	2218.0
2709.2	7.5°	2643.7	2580.0	2516.2	2460.1	2403.9	2352.1	2303.6	2260.0	2216.5	2180.4
2797.5	10°	2711.1	2633.7	2556.2	2489.8	2423.3	2359.4	2307.2	2261.3	2215.3	2179.2
2858.4	12.5°	2760.4	2669.0	2577.7	2502.6	2427.5	2360.3	2311.7	2274.1	2236.7	2212.6
2896.3	15°	2790.0	2684.9	2579.7	2492.7	2405.8	2331.3	2292.5	2274.5	2256.6	2259.8
2914.5	17.5°	2798.5	2676.5	2554.4	2449.8	2345.2	2257.7	2233.7	2240.3	2246.8	2286.2
2928.7	20°	2801.2	2653.3	2505.4	2375.7	2246.1	2144.2	2137.9	2168.6	2199.3	2267.8
2947.9	22.5°	2804.8	2624.9	2445.0	2288.9	2132.7	2016.7	2029.1	2074.6	2120.0	2198.2
2982.6	25°	2819.1	2596.9	2374.7	2191.8	2009.0	1890.1	1923.6	1976.0	2028.5	2098.7
3036.9	27.5°	2849.0	2578.2	2307.4	2103.1	1898.9	1790.7	1831.4	1882.0	1932.6	1990.4
3107.1	30°	2889.8	2569.4	2248.8	2029.0	1809.2	1718.3	1750.2	1790.4	1830.7	1878.6
3180.4	32.5°	2925.1	2558.6	2191.8	1965.1	1738.2	1665.0	1679.2	1703.0	1726.7	1765.0
3264.0	35°	2951.0	2538.1	2125.5	1902.2	1679.0	1618.0	1612.1	1618.6	1625.2	1654.4
3357.6	37.5°	2966.3	2503.1	2039.9	1828.3	1616.6	1563.3	1541.8	1534.5	1527.3	1548.3
3476.4	40°	2976.0	2454.9	1934.0	1740.0	1546.1	1497.7	1464.7	1448.4	1432.0	1447.1
3631.8	42.5°	2994.4	2405.2	1816.3	1642.7	1469.1	1424.5	1382.9	1361.2	1339.5	1351.8
3836.3	45°	3026.6	2359.0	1691.5	1539.2	1387.0	1341.8	1301.5	1280.4	1259.3	1269.6
4054.2	47.5°	3048.8	2320.9	1592.9	1457.4	1321.9	1263.5	1228.9	1211.2	1193.5	1203.2
4256.4	50°	3034.3	2279.3	1524.2	1403.1	1281.9	1205.2	1165.0	1149.3	1133.6	1148.8
4387.7	52.5°	2945.3	2209.0	1472.9	1367.3	1261.7	1173.6	1117.3	1101.8	1086.3	1109.2
4358.7	55°	2761.3	2092.6	1423.9	1341.3	1258.8	1176.7	1092.0	1067.4	1042.9	1075.4
4155.1	57.5°	2487.8	1928.4	1368.9	1310.6	1252.2	1179.9	1076.8	1041.0	1005.2	1040.1
3776.2	60°	2121.0	1715.2	1309.4	1263.5	1217.7	1170.0	1062.6	1016.2	969.7	1000.3
3263.8	62.5°	1707.8	1460.0	1212.3	1181.8	1151.4	1145.6	1045.9	987.9	929.9	949.4
2741.0	65°	1346.1	1230.5	1114.8	1100.4	1086.1	1086.8	1010.8	949.2	887.4	894.9
2228.9	67.5°	1042.7	1009.8	976.9	985.0	992.9	990.9	948.3	896.9	845.6	843.2
1755.0	70°	789.8	799.2	808.5	845.7	882.9	882.9	868.9	832.4	795.8	787.7
1341.7	72.5°	609.2	637.5	665.9	718.7	771.4	780.3	780.5	755.4	730.4	718.4
973.8	75°	473.1	498.7	524.4	583.5	642.7	683.5	680.1	660.8	641.5	630.1
659.8	77.5°	364.2	381.6	399.2	456.6	514.0	581.4	579.6	564.1	548.6	537.1
425.1	80°	273.1	280.3	287.5	336.2	384.7	465.2	464.9	452.0	439.0	429.3
261.5	82.5°	195.1	196.4	197.8	233.6	269.4	338.2	341.9	335.6	329.3	322.4
139.8	85°	118.0	117.4	116.6	142.9	169.1	220.2	225.1	218.4	211.6	203.9
58.0	87.5°	51.7	51.1	50.5	61.1	71.9	93.1	99.5	96.7	94.0	92.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
2356.2	0°	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2
2265.8	2.5°	2252.1	2238.5	2224.7	2211.1	2200.5	2189.8	2181.3	2172.7	2166.0	2159.3
2190.6	5°	2166.3	2142.1	2120.1	2098.1	2081.2	2064.2	2052.3	2040.5	2032.1	2023.7
2144.2	7.5°	2113.7	2083.2	2056.2	2029.4	2009.2	1989.1	1975.0	1960.9	1951.2	1941.7
2143.0	10°	2110.2	2077.3	2047.0	2016.7	1992.7	1968.5	1952.8	1936.9	1927.7	1918.6
2188.8	12.5°	2162.9	2137.2	2105.9	2074.6	2043.8	2013.1	1992.7	1972.4	1962.2	1952.1
2263.1	15°	2256.4	2249.7	2222.5	2195.3	2151.5	2107.8	2076.8	2045.9	2031.7	2017.6
2325.6	17.5°	2346.6	2367.5	2345.5	2323.7	2265.7	2207.7	2162.2	2116.6	2095.6	2074.6
2336.3	20°	2380.2	2424.0	2413.9	2403.7	2337.4	2271.2	2215.3	2159.6	2132.7	2105.8
2276.5	22.5°	2333.5	2390.6	2396.7	2402.8	2339.5	2276.2	2218.7	2161.1	2132.8	2104.4
2169.1	25°	2225.2	2281.3	2302.3	2323.2	2271.3	2219.5	2168.3	2117.3	2092.7	2068.2
2048.1	27.5°	2093.1	2138.1	2161.5	2184.9	2147.9	2111.0	2071.3	2031.6	2015.2	1998.6
1926.6	30°	1963.9	2001.3	2020.3	2039.3	2011.2	1983.0	1954.6	1926.0	1917.6	1909.1
1803.3	32.5°	1839.1	1875.0	1896.1	1917.2	1891.4	1865.4	1842.7	1820.1	1814.5	1809.0
1683.5	35°	1719.0	1754.5	1779.8	1805.1	1786.7	1768.3	1747.4	1726.5	1718.1	1709.7
1569.1	37.5°	1604.5	1639.9	1671.2	1702.5	1694.0	1685.5	1666.3	1646.9	1631.6	1616.4
1462.2	40°	1496.4	1530.5	1566.5	1602.6	1604.7	1606.7	1590.3	1573.9	1551.7	1529.6
1364.2	42.5°	1396.5	1429.0	1467.9	1506.8	1517.2	1527.6	1513.7	1500.0	1472.4	1444.8
1280.1	45°	1310.8	1341.6	1381.9	1422.2	1437.1	1452.1	1439.6	1427.2	1395.6	1364.2
1212.9	47.5°	1243.0	1273.0	1312.8	1352.6	1369.8	1387.0	1378.3	1369.6	1341.6	1313.5
1164.1	50°	1192.5	1220.8	1256.4	1292.0	1314.1	1336.2	1335.6	1335.2	1312.8	1290.4
1132.0	52.5°	1158.0	1184.0	1217.2	1250.4	1276.6	1302.7	1307.4	1312.1	1293.8	1275.6
1107.8	55°	1135.8	1163.8	1192.9	1222.0	1249.6	1277.4	1283.9	1290.4	1274.5	1258.6
1075.0	57.5°	1107.9	1140.9	1169.6	1198.4	1226.4	1254.2	1260.8	1267.4	1251.3	1235.2
1030.9	60°	1068.7	1106.5	1135.7	1165.0	1193.0	1221.1	1228.3	1235.5	1219.8	1204.1
968.8	62.5°	1012.8	1056.9	1088.1	1119.3	1145.0	1170.7	1177.7	1184.6	1170.4	1156.2
902.3	65°	949.5	996.8	1026.7	1056.5	1079.1	1101.7	1108.8	1115.9	1102.2	1088.6
840.9	67.5°	884.4	928.1	956.4	984.6	1004.1	1023.7	1030.6	1037.5	1024.9	1012.5
779.6	70°	817.9	856.2	880.6	905.1	922.7	940.3	947.0	953.7	943.5	933.3
706.6	72.5°	736.8	766.9	789.0	811.0	828.3	845.6	853.5	861.5	853.0	844.5
618.6	75°	641.0	663.5	683.4	703.4	719.2	734.9	743.2	751.5	747.4	743.2
525.5	77.5°	543.8	561.9	579.1	596.3	612.8	629.3	637.1	644.8	639.1	633.1
419.5	80°	434.7	449.8	464.3	478.7	491.3	503.8	514.1	524.4	521.9	519.4
315.5	82.5°	314.3	313.0	308.0	302.9	329.7	356.4	374.0	391.5	390.4	389.2
196.2	85°	189.7	183.1	169.1	155.1	180.1	205.2	226.9	248.6	246.8	245.0
91.1	87.5°	90.9	90.6	79.9	69.2	79.7	90.2	99.0	107.8	105.6	103.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
2356.2	0°	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2
2153.1	2.5°	2146.9	2139.2	2146.9	2153.1	2159.3	2166.0	2172.7	2181.3	2189.8	2200.5
2017.2	5°	2010.8	2004.5	2010.8	2017.2	2023.7	2032.1	2040.5	2052.3	2064.2	2081.2
1935.9	7.5°	1930.2	1925.8	1930.2	1935.9	1941.7	1951.2	1960.9	1975.0	1989.1	2009.2
1913.7	10°	1908.8	1906.8	1908.8	1913.7	1918.6	1927.7	1936.9	1952.8	1968.5	1992.7
1947.9	12.5°	1943.7	1943.0	1943.7	1947.9	1952.1	1962.2	1972.4	1992.7	2013.1	2043.8
2012.2	15°	2006.8	2006.3	2006.8	2012.2	2017.6	2031.7	2045.9	2076.8	2107.8	2151.5
2067.7	17.5°	2060.7	2059.6	2060.7	2067.7	2074.6	2095.6	2116.6	2162.2	2207.7	2265.7
2097.2	20°	2088.6	2085.9	2088.6	2097.2	2105.8	2132.7	2159.6	2215.3	2271.2	2337.4
2094.9	22.5°	2085.4	2081.3	2085.4	2094.9	2104.4	2132.8	2161.1	2218.7	2276.2	2339.5
2059.3	25°	2050.4	2045.2	2050.4	2059.3	2068.2	2092.7	2117.3	2168.3	2219.5	2271.3
1994.6	27.5°	1990.5	1989.1	1990.5	1994.6	1998.6	2015.2	2031.6	2071.3	2111.0	2147.9
1909.1	30°	1909.1	1910.5	1909.1	1909.1	1909.1	1917.6	1926.0	1954.6	1983.0	2011.2
1809.7	32.5°	1810.6	1811.9	1810.6	1809.7	1809.0	1814.5	1820.1	1842.7	1865.4	1891.4
1707.9	35°	1706.1	1705.2	1706.1	1707.9	1709.7	1718.1	1726.5	1747.4	1768.3	1786.7
1608.4	37.5°	1600.3	1595.8	1600.3	1608.4	1616.4	1631.6	1646.9	1666.3	1685.5	1694.0
1514.6	40°	1499.8	1490.9	1499.8	1514.6	1529.6	1551.7	1573.9	1590.3	1606.7	1604.7
1423.0	42.5°	1401.2	1387.0	1401.2	1423.0	1444.8	1472.4	1500.0	1513.7	1527.6	1517.2
1338.6	45°	1313.0	1296.5	1313.0	1338.6	1364.2	1395.6	1427.2	1439.6	1452.1	1437.1
1289.9	47.5°	1266.3	1250.4	1266.3	1289.9	1313.5	1341.6	1369.6	1378.3	1387.0	1369.8
1268.5	50°	1246.6	1231.4	1246.6	1268.5	1290.4	1312.8	1335.2	1335.6	1336.2	1314.1
1256.0	52.5°	1236.4	1222.4	1236.4	1256.0	1275.6	1293.8	1312.1	1307.4	1302.7	1276.6
1241.4	55°	1224.2	1211.6	1224.2	1241.4	1258.6	1274.5	1290.4	1283.9	1277.4	1249.6
1218.2	57.5°	1201.2	1188.1	1201.2	1218.2	1235.2	1251.3	1267.4	1260.8	1254.2	1226.4
1186.6	60°	1169.1	1155.5	1169.1	1186.6	1204.1	1219.8	1235.5	1228.3	1221.1	1193.0
1137.8	62.5°	1119.3	1103.1	1119.3	1137.8	1156.2	1170.4	1184.6	1177.7	1170.7	1145.0
1070.7	65°	1052.9	1038.9	1052.9	1070.7	1088.6	1102.2	1115.9	1108.8	1101.7	1079.1
995.8	67.5°	979.2	966.5	979.2	995.8	1012.5	1024.9	1037.5	1030.6	1023.7	1004.1
917.3	70°	901.4	887.0	901.4	917.3	933.3	943.5	953.7	947.0	940.3	922.7
829.3	72.5°	814.2	800.2	814.2	829.3	844.5	853.0	861.5	853.5	845.6	828.3
730.5	75°	717.7	704.3	717.7	730.5	743.2	747.4	751.5	743.2	734.9	719.2
620.2	77.5°	607.4	596.7	607.4	620.2	633.1	639.1	644.8	637.1	629.3	612.8
502.2	80°	484.8	464.7	484.8	502.2	519.4	521.9	524.4	514.1	503.8	491.3
374.7	82.5°	360.0	347.2	360.0	374.7	389.2	390.4	391.5	374.0	356.4	329.7
233.6	85°	222.2	210.7	222.2	233.6	245.0	246.8	248.6	226.9	205.2	180.1
97.5	87.5°	91.5	85.9	91.5	97.5	103.3	105.6	107.8	99.0	90.2	79.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
2356.2	0°	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2
2211.1	2.5°	2224.7	2238.5	2252.1	2265.8	2281.3	2297.0	2314.3	2331.6	2353.0	2372.3
2098.1	5°	2120.1	2142.1	2166.3	2190.6	2218.0	2245.5	2278.3	2311.0	2348.5	2386.5
2029.4	7.5°	2056.2	2083.2	2113.7	2144.2	2180.4	2216.5	2260.0	2303.6	2352.1	2403.9
2016.7	10°	2047.0	2077.3	2110.2	2143.0	2179.2	2215.3	2261.3	2307.2	2359.4	2423.3
2074.6	12.5°	2105.9	2137.2	2162.9	2188.8	2212.6	2236.7	2274.1	2311.7	2360.3	2427.5
2195.3	15°	2222.5	2249.7	2256.4	2263.1	2259.8	2256.6	2274.5	2292.5	2331.3	2405.8
2323.7	17.5°	2345.5	2367.5	2346.6	2325.6	2286.2	2246.8	2240.3	2233.7	2257.7	2345.2
2403.7	20°	2413.9	2424.0	2380.2	2336.3	2267.8	2199.3	2168.6	2137.9	2144.2	2246.1
2402.8	22.5°	2396.7	2390.6	2333.5	2276.5	2198.2	2120.0	2074.6	2029.1	2016.7	2132.7
2323.2	25°	2302.3	2281.3	2225.2	2169.1	2098.7	2028.5	1976.0	1923.6	1890.1	2009.0
2184.9	27.5°	2161.5	2138.1	2093.1	2048.1	1990.4	1932.6	1882.0	1831.4	1790.7	1898.9
2039.3	30°	2020.3	2001.3	1963.9	1926.6	1878.6	1830.7	1790.4	1750.2	1718.3	1809.2
1917.2	32.5°	1896.1	1875.0	1839.1	1803.3	1765.0	1726.7	1703.0	1679.2	1665.0	1738.2
1805.1	35°	1779.8	1754.5	1719.0	1683.5	1654.4	1625.2	1618.6	1612.1	1618.0	1679.0
1702.5	37.5°	1671.2	1639.9	1604.5	1569.1	1548.3	1527.3	1534.5	1541.8	1563.3	1616.6
1602.6	40°	1566.5	1530.5	1496.4	1462.2	1447.1	1432.0	1448.4	1464.7	1497.7	1546.1
1506.8	42.5°	1467.9	1429.0	1396.5	1364.2	1351.8	1339.5	1361.2	1382.9	1424.5	1469.1
1422.2	45°	1381.9	1341.6	1310.8	1280.1	1269.6	1259.3	1280.4	1301.5	1341.8	1387.0
1352.6	47.5°	1312.8	1273.0	1243.0	1212.9	1203.2	1193.5	1211.2	1228.9	1263.5	1321.9
1292.0	50°	1256.4	1220.8	1192.5	1164.1	1148.8	1133.6	1149.3	1165.0	1205.2	1281.9
1250.4	52.5°	1217.2	1184.0	1158.0	1132.0	1109.2	1086.3	1101.8	1117.3	1173.6	1261.7
1222.0	55°	1192.9	1163.8	1135.8	1107.8	1075.4	1042.9	1067.4	1092.0	1176.7	1258.8
1198.4	57.5°	1169.6	1140.9	1107.9	1075.0	1040.1	1005.2	1041.0	1076.8	1179.9	1252.2
1165.0	60°	1135.7	1106.5	1068.7	1030.9	1000.3	969.7	1016.2	1062.6	1170.0	1217.7
1119.3	62.5°	1088.1	1056.9	1012.8	968.8	949.4	929.9	987.9	1045.9	1145.6	1151.4
1056.5	65°	1026.7	996.8	949.5	902.3	894.9	887.4	949.2	1010.8	1086.8	1086.1
984.6	67.5°	956.4	928.1	884.4	840.9	843.2	845.6	896.9	948.3	990.9	992.9
905.1	70°	880.6	856.2	817.9	779.6	787.7	795.8	832.4	868.9	882.9	882.9
811.0	72.5°	789.0	766.9	736.8	706.6	718.4	730.4	755.4	780.5	780.3	771.4
703.4	75°	683.4	663.5	641.0	618.6	630.1	641.5	660.8	680.1	683.5	642.7
596.3	77.5°	579.1	561.9	543.8	525.5	537.1	548.6	564.1	579.6	581.4	514.0
478.7	80°	464.3	449.8	434.7	419.5	429.3	439.0	452.0	464.9	465.2	384.7
302.9	82.5°	308.0	313.0	314.3	315.5	322.4	329.3	335.6	341.9	338.2	269.4
155.1	85°	169.1	183.1	189.7	196.2	203.9	211.6	218.4	225.1	220.2	169.1
69.2	87.5°	79.9	90.6	90.9	91.1	92.6	94.0	96.7	99.5	93.1	71.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

325°		330°	335°	340°	345°	350°	355°	360°
2356.2	0°	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2	2356.2
2392.2	2.5°	2412.1	2432.9	2453.7	2474.3	2495.0	2514.4	2533.9
2426.7	5°	2467.0	2510.0	2553.1	2595.9	2638.8	2681.7	2724.7
2460.1	7.5°	2516.2	2580.0	2643.7	2709.2	2774.6	2845.4	2916.3
2489.8	10°	2556.2	2633.7	2711.1	2797.5	2884.1	2973.7	3063.3
2502.6	12.5°	2577.7	2669.0	2760.4	2858.4	2956.4	3054.8	3153.2
2492.7	15°	2579.7	2684.9	2790.0	2896.3	3002.7	3105.3	3207.9
2449.8	17.5°	2554.4	2676.5	2798.5	2914.5	3030.5	3134.6	3238.7
2375.7	20°	2505.4	2653.3	2801.2	2928.7	3056.2	3164.4	3272.6
2288.9	22.5°	2445.0	2624.9	2804.8	2947.9	3090.8	3201.4	3311.9
2191.8	25°	2374.7	2596.9	2819.1	2982.6	3146.0	3254.2	3362.5
2103.1	27.5°	2307.4	2578.2	2849.0	3036.9	3224.6	3328.0	3431.2
2029.0	30°	2248.8	2569.4	2889.8	3107.1	3324.4	3424.1	3523.9
1965.1	32.5°	2191.8	2558.6	2925.1	3180.4	3435.8	3534.5	3633.3
1902.2	35°	2125.5	2538.1	2951.0	3264.0	3577.0	3671.7	3766.2
1828.3	37.5°	2039.9	2503.1	2966.3	3357.6	3748.8	3869.4	3990.0
1740.0	40°	1934.0	2454.9	2976.0	3476.4	3976.6	4152.4	4328.2
1642.7	42.5°	1816.3	2405.2	2994.4	3631.8	4269.2	4522.9	4776.6
1539.2	45°	1691.5	2359.0	3026.6	3836.3	4646.0	4988.2	5330.4
1457.4	47.5°	1592.9	2320.9	3048.8	4054.2	5059.6	5541.3	6023.0
1403.1	50°	1524.2	2279.3	3034.3	4256.4	5478.4	6204.6	6930.7
1367.3	52.5°	1472.9	2209.0	2945.3	4387.7	5829.9	6901.4	7972.8
1341.3	55°	1423.9	2092.6	2761.3	4358.7	5956.1	7519.1	9082.2
1310.6	57.5°	1368.9	1928.4	2487.8	4155.1	5822.5	7956.9	10091.2
1263.5	60°	1309.4	1715.2	2121.0	3776.2	5431.4	8066.3	10701.0
1181.8	62.5°	1212.3	1460.0	1707.8	3263.8	4819.8	7605.6	10391.4
1100.4	65°	1114.8	1230.5	1346.1	2741.0	4136.0	6953.8	9771.6
985.0	67.5°	976.9	1009.8	1042.7	2228.9	3415.1	6178.1	8941.1
845.7	70°	808.5	799.2	789.8	1755.0	2720.1	5331.8	7943.4
718.7	72.5°	665.9	637.5	609.2	1341.7	2074.1	4414.2	6754.4
583.5	75°	524.4	498.7	473.1	973.8	1474.5	3362.4	5250.4
456.6	77.5°	399.2	381.6	364.2	659.8	955.5	2353.4	3751.3
336.2	80°	287.5	280.3	273.1	425.1	577.3	1516.3	2455.2
233.6	82.5°	197.8	196.4	195.1	261.5	328.0	877.6	1427.2
142.9	85°	116.6	117.4	118.0	139.8	161.7	394.8	627.9
61.1	87.5°	50.5	51.1	51.7	58.0	64.2	129.3	194.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)