

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: P949271

Luminaire Tested: **GALN-SB4A-827-U-SLL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949271  
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-827-U-SLL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

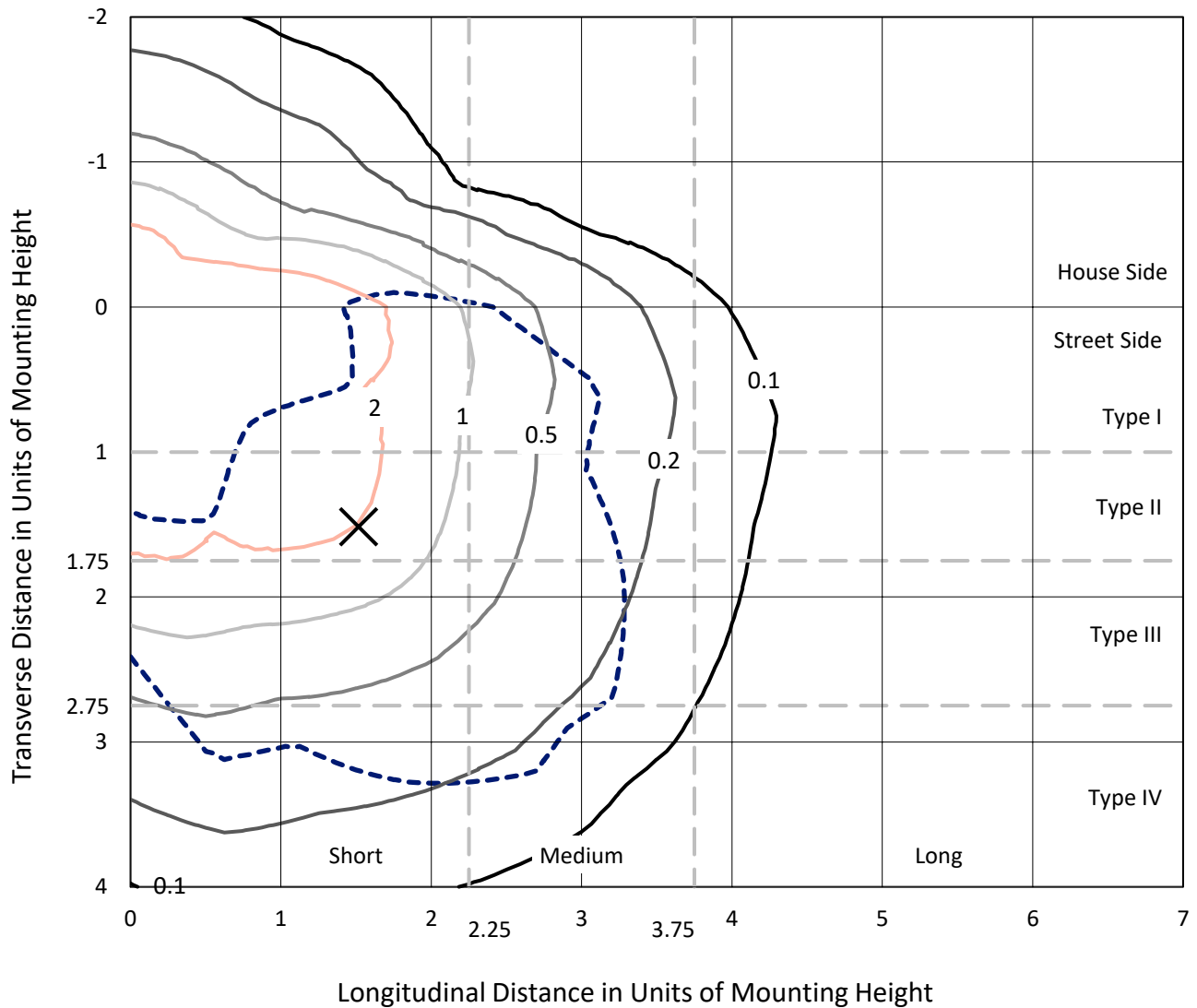
Lumens per Lamp: N/A  
Luminaire Lumens: 15577 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

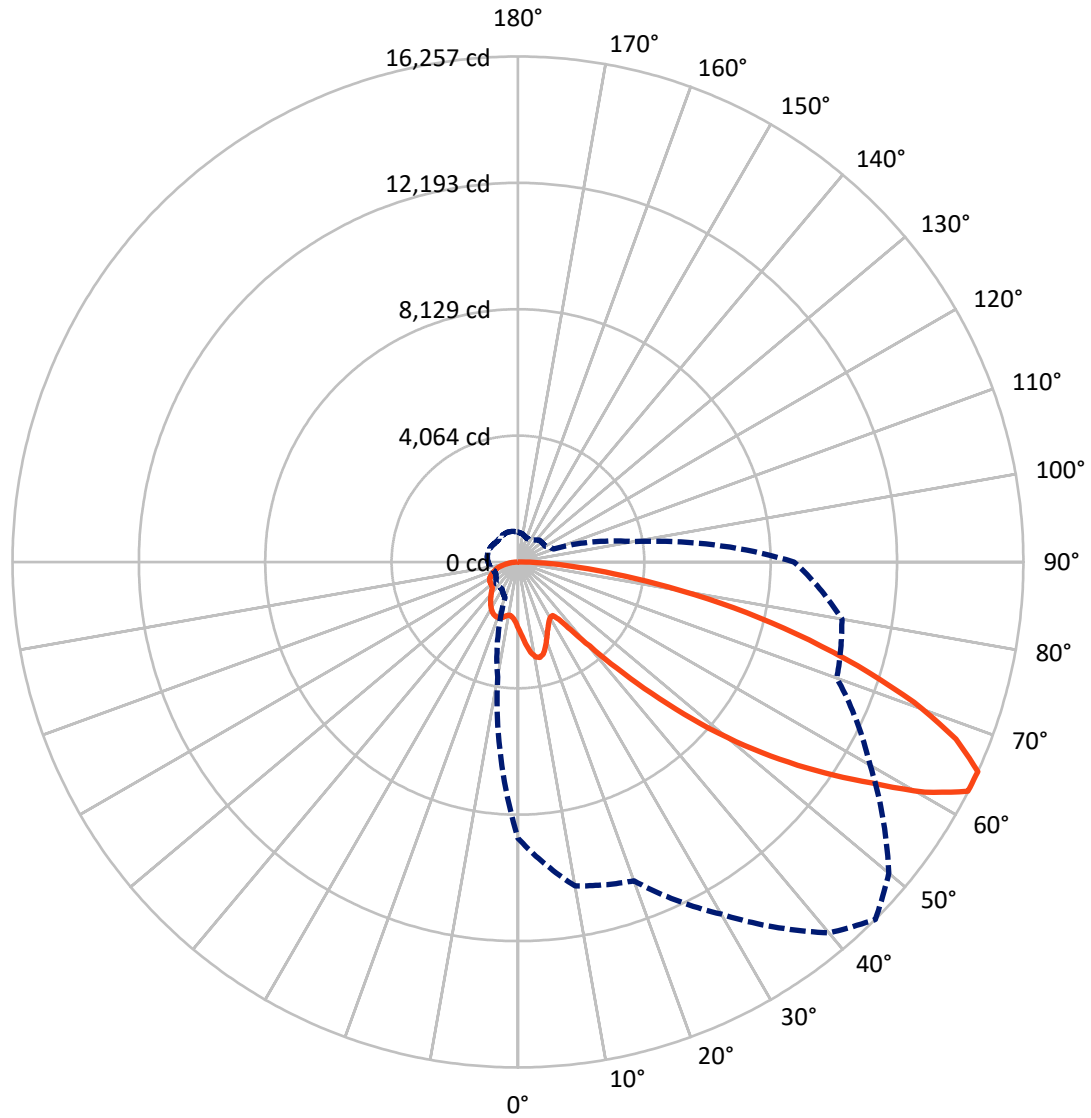
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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
<b>House Side</b>	Lumens	3958.9	0.0	3958.9
	% Fixture	25.4	0.0	25.4
<b>Street Side</b>	Lumens	11618.1	0.0	11618.1
	% Fixture	74.6	0.0	74.6
<b>Total</b>	Lumens	15577.0	0.0	15577.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.5	1.4
10°-20°	667.0	4.3
20°-30°	1030.3	6.6
30°-40°	1305.7	8.4
40°-50°	1969.3	12.6
50°-60°	3181.7	20.4
60°-70°	3966.5	25.5
70°-80°	2601.0	16.7
80°-90°	643.0	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°	15577.0	100.0
0°-180°	15577.0	100.0



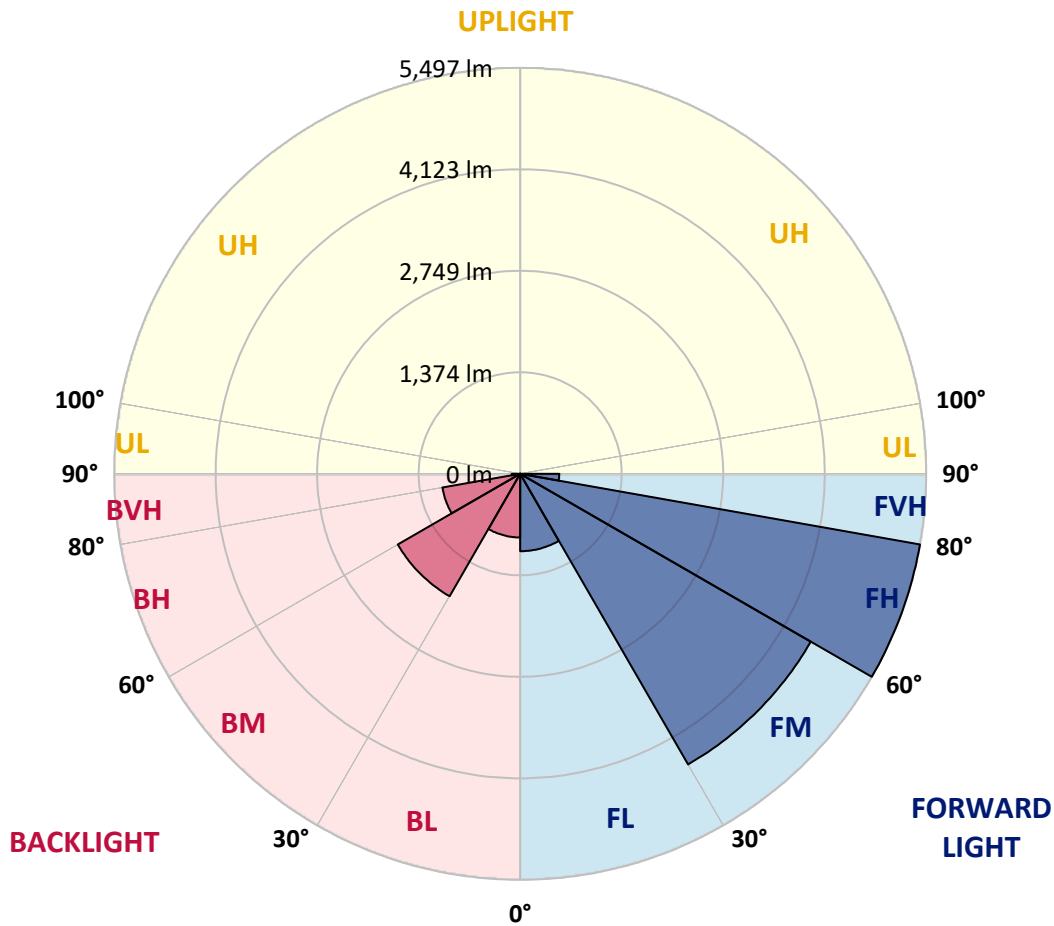
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.7	6.7			
FM (30°-60°)	4543.5	29.2			
FH (60°-80°)	5497.2	35.3			G3/7500
FVH (80°-90°)	529.7	3.4			G4/750
BL (0°-30°)	862.1	5.5	B2/1000		
BM (30°-60°)	1913.2	12.3	B2/2500		
BH (60°-80°)	1070.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	113.3	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°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
2.5°	2303.5	2312.2	2321.0	2333.4	2345.8	2353.2	2360.6	2364.3	2368.0	2366.4
5°	2476.9	2507.4	2538.0	2568.2	2598.6	2615.0	2631.4	2641.4	2651.4	2659.0
7.5°	2651.2	2700.8	2750.4	2795.0	2839.6	2866.5	2893.4	2907.9	2922.4	2929.4
10°	2784.7	2843.4	2902.1	2954.5	3006.8	3038.5	3070.1	3084.2	3098.3	3103.6
12.5°	2866.5	2930.1	2993.7	3041.0	3088.2	3111.2	3134.2	3141.9	3149.7	3150.5
15°	2916.2	2971.1	3026.0	3055.6	3085.4	3086.2	3087.0	3078.8	3070.6	3060.9
17.5°	2944.2	2981.3	3018.3	3018.9	3019.4	2986.1	2952.8	2922.3	2891.7	2870.2
20°	2975.0	2987.9	3000.9	2961.9	2922.8	2849.3	2775.9	2722.3	2668.8	2636.0
22.5°	3010.8	2993.8	2976.9	2896.0	2815.1	2707.1	2599.0	2532.1	2465.2	2428.8
25°	3056.8	3003.4	2949.9	2827.1	2704.3	2573.1	2441.8	2371.5	2301.3	2266.9
27.5°	3119.3	3023.7	2928.2	2765.5	2602.9	2457.4	2311.9	2242.7	2173.6	2141.1
30°	3203.5	3061.1	2918.7	2718.5	2518.3	2366.7	2215.1	2150.9	2086.7	2056.5
32.5°	3303.0	3107.9	2912.9	2686.4	2459.9	2317.5	2175.0	2124.6	2074.2	2052.4
35°	3423.8	3185.1	2946.5	2710.4	2474.4	2375.5	2276.6	2264.9	2253.1	2251.3
37.5°	3627.2	3346.4	3065.7	2851.1	2636.6	2630.2	2623.8	2677.5	2731.3	2759.2
40°	3934.6	3629.3	3323.9	3164.4	3004.8	3117.4	3230.1	3360.7	3491.4	3556.5
42.5°	4342.3	4039.3	3736.4	3644.5	3552.6	3798.2	4043.8	4281.5	4519.2	4658.7
45°	4845.7	4573.6	4301.4	4260.8	4220.2	4613.7	5007.2	5397.8	5788.5	6025.6
47.5°	5475.3	5210.6	4945.8	4937.5	4929.3	5497.0	6064.4	6636.2	7208.0	7543.8
50°	6300.6	5973.5	5646.6	5648.0	5649.3	6380.9	7112.4	7867.2	8622.0	9078.3
52.5°	7247.9	6851.8	6455.9	6415.9	6375.8	7249.6	8123.4	9057.3	9991.1	10538.1
55°	8256.4	7865.1	7473.9	7317.8	7161.7	8134.2	9106.7	10220.0	11333.3	11983.9
57.5°	9173.7	8960.6	8747.5	8434.4	8121.4	9103.4	10085.3	11346.4	12607.3	13414.0
60°	9728.1	10059.0	10390.0	10001.2	9612.4	10541.7	11471.0	12821.1	14171.2	15043.1
62.5°	9446.5	10350.8	11255.0	11211.2	11167.3	12018.5	12869.9	14154.4	15438.9	16244.8
65°	8883.1	9731.8	10580.4	10748.3	10916.2	11998.0	13079.9	14325.5	15571.0	16257.1
67.5°	8128.1	8935.3	9742.4	9821.2	9899.8	11027.0	12154.2	13405.1	14656.0	15193.5
70°	7221.1	8099.1	8977.0	9012.2	9047.5	10055.5	11063.5	12139.9	13216.4	13515.1
72.5°	6140.3	7147.7	8155.3	8180.6	8205.8	8994.5	9783.1	10589.4	11395.5	11425.8
75°	4773.0	5815.7	6858.4	6952.0	7045.7	7659.2	8272.8	8840.4	9407.9	9255.8
77.5°	3410.2	4383.6	5357.0	5491.0	5624.9	6091.4	6557.8	6960.3	7362.9	7101.5
80°	2232.0	3050.9	3869.7	4036.2	4202.7	4555.0	4907.1	5118.5	5329.9	4909.4
82.5°	1297.4	1857.3	2417.2	2603.2	2789.2	3031.7	3274.2	3362.4	3450.5	3120.1
85°	570.8	868.0	1165.1	1323.3	1481.5	1680.8	1879.9	1930.0	1980.0	1715.4
87.5°	176.7	276.6	376.4	464.7	553.0	652.6	752.2	756.5	760.7	638.6
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°
2142.0	0°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
2368.0	2.5°	2364.3	2360.6	2353.2	2345.8	2333.4	2321.0	2312.2	2303.5	2285.8	2268.1
2651.4	5°	2641.4	2631.4	2615.0	2598.6	2568.2	2538.0	2507.4	2476.9	2437.9	2398.8
2922.4	7.5°	2907.9	2893.4	2866.5	2839.6	2795.0	2750.4	2700.8	2651.2	2586.7	2522.4
3098.3	10°	3084.2	3070.1	3038.5	3006.8	2954.5	2902.1	2843.4	2784.7	2703.3	2621.8
3149.7	12.5°	3141.9	3134.2	3111.2	3088.2	3041.0	2993.7	2930.1	2866.5	2777.0	2687.6
3070.6	15°	3078.8	3087.0	3086.2	3085.4	3055.6	3026.0	2971.1	2916.2	2822.9	2729.7
2891.7	17.5°	2922.3	2952.8	2986.1	3019.4	3018.9	3018.3	2981.3	2944.2	2849.6	2755.0
2668.8	20°	2722.3	2775.9	2849.3	2922.8	2961.9	3000.9	2987.9	2975.0	2876.7	2778.3
2465.2	22.5°	2532.1	2599.0	2707.1	2815.1	2896.0	2976.9	2993.8	3010.8	2910.3	2809.8
2301.3	25°	2371.5	2441.8	2573.1	2704.3	2827.1	2949.9	3003.4	3056.8	2958.3	2859.9
2173.6	27.5°	2242.7	2311.9	2457.4	2602.9	2765.5	2928.2	3023.7	3119.3	3025.4	2931.4
2086.7	30°	2150.9	2215.1	2366.7	2518.3	2718.5	2918.7	3061.1	3203.5	3112.8	3022.1
2074.2	32.5°	2124.6	2175.0	2317.5	2459.9	2686.4	2912.9	3107.9	3303.0	3213.1	3123.4
2253.1	35°	2264.9	2276.6	2375.5	2474.4	2710.4	2946.5	3185.1	3423.8	3337.8	3251.8
2731.3	37.5°	2677.5	2623.8	2630.2	2636.6	2851.1	3065.7	3346.4	3627.2	3517.6	3407.9
3491.4	40°	3360.7	3230.1	3117.4	3004.8	3164.4	3323.9	3629.3	3934.6	3774.8	3615.0
4519.2	42.5°	4281.5	4043.8	3798.2	3552.6	3644.5	3736.4	4039.3	4342.3	4111.7	3881.0
5788.5	45°	5397.8	5007.2	4613.7	4220.2	4260.8	4301.4	4573.6	4845.7	4534.6	4223.5
7208.0	47.5°	6636.2	6064.4	5497.0	4929.3	4937.5	4945.8	5210.6	5475.3	5037.5	4599.6
8622.0	50°	7867.2	7112.4	6380.9	5649.3	5648.0	5646.6	5973.5	6300.6	5640.5	4980.3
9991.1	52.5°	9057.3	8123.4	7249.6	6375.8	6415.9	6455.9	6851.8	7247.9	6273.9	5299.9
11333.3	55°	10220.0	9106.7	8134.2	7161.7	7317.8	7473.9	7865.1	8256.4	6835.4	5414.5
12607.3	57.5°	11346.4	10085.3	9103.4	8121.4	8434.4	8747.5	8960.6	9173.7	7233.4	5293.1
14171.2	60°	12821.1	11471.0	10541.7	9612.4	10001.2	10390.0	10059.0	9728.1	7332.8	4937.5
15438.9	62.5°	14154.4	12869.9	12018.5	11167.3	11211.2	11255.0	10350.8	9446.5	6914.1	4381.6
15571.0	65°	14325.5	13079.9	11998.0	10916.2	10748.3	10580.4	9731.8	8883.1	6321.5	3760.0
14656.0	67.5°	13405.1	12154.2	11027.0	9899.8	9821.2	9742.4	8935.3	8128.1	5616.4	3104.6
13216.4	70°	12139.9	11063.5	10055.5	9047.5	9012.2	8977.0	8099.1	7221.1	4847.0	2472.8
11395.5	72.5°	10589.4	9783.1	8994.5	8205.8	8180.6	8155.3	7147.7	6140.3	4012.9	1885.5
9407.9	75°	8840.4	8272.8	7659.2	7045.7	6952.0	6858.4	5815.7	4773.0	3056.7	1340.4
7362.9	77.5°	6960.3	6557.8	6091.4	5624.9	5491.0	5357.0	4383.6	3410.2	2139.4	868.6
5329.9	80°	5118.5	4907.1	4555.0	4202.7	4036.2	3869.7	3050.9	2232.0	1378.4	524.8
3450.5	82.5°	3362.4	3274.2	3031.7	2789.2	2603.2	2417.2	1857.3	1297.4	797.8	298.2
1980.0	85°	1930.0	1879.9	1680.8	1481.5	1323.3	1165.1	868.0	570.8	358.9	147.0
760.7	87.5°	756.5	752.2	652.6	553.0	464.7	376.4	276.6	176.7	117.5	58.4
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°
2142.0	0°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
2249.3	2.5°	2230.6	2211.7	2192.8	2174.7	2156.6	2139.1	2119.6	2103.8	2088.1	2073.9
2359.9	5°	2321.0	2281.8	2242.7	2206.1	2169.5	2135.0	2100.9	2071.1	2041.3	2016.3
2462.9	7.5°	2403.3	2345.4	2287.5	2236.4	2185.4	2138.3	2094.1	2054.5	2015.0	1982.1
2543.2	10°	2464.6	2394.2	2323.8	2263.5	2203.0	2144.8	2097.4	2055.7	2013.9	1981.0
2598.5	12.5°	2509.4	2426.4	2343.3	2275.0	2206.7	2145.7	2101.5	2067.3	2033.3	2011.4
2633.0	15°	2536.3	2440.7	2345.2	2266.1	2187.0	2119.4	2084.0	2067.7	2051.4	2054.4
2649.5	17.5°	2544.1	2433.1	2322.1	2227.0	2131.9	2052.4	2030.6	2036.6	2042.5	2078.4
2662.4	20°	2546.5	2412.1	2277.6	2159.7	2041.9	1949.2	1943.5	1971.4	1999.4	2061.6
2679.8	22.5°	2549.8	2386.3	2222.7	2080.7	1938.8	1833.3	1844.6	1885.9	1927.3	1998.3
2711.4	25°	2562.8	2360.8	2158.8	1992.5	1826.3	1718.3	1748.7	1796.3	1844.0	1907.9
2760.7	27.5°	2589.9	2343.8	2097.6	1911.9	1726.2	1627.8	1664.8	1710.9	1756.9	1809.4
2824.6	30°	2627.1	2335.8	2044.3	1844.5	1644.7	1562.1	1591.1	1627.6	1664.3	1707.8
2891.3	32.5°	2659.1	2325.9	1992.5	1786.4	1580.2	1513.6	1526.5	1548.1	1569.7	1604.5
2967.2	35°	2682.6	2307.3	1932.2	1729.3	1526.3	1470.9	1465.5	1471.4	1477.4	1504.0
3052.3	37.5°	2696.6	2275.5	1854.5	1662.0	1469.6	1421.1	1401.6	1395.0	1388.4	1407.5
3160.3	40°	2705.4	2231.7	1758.1	1581.8	1405.5	1361.5	1331.5	1316.7	1301.8	1315.5
3301.6	42.5°	2722.1	2186.5	1651.1	1493.3	1335.5	1295.0	1257.2	1237.4	1217.7	1228.9
3487.5	45°	2751.4	2144.5	1537.7	1399.3	1260.9	1219.8	1183.2	1163.9	1144.8	1154.2
3685.6	47.5°	2771.6	2109.8	1448.1	1324.9	1201.7	1148.7	1117.2	1101.1	1085.0	1093.8
3869.4	50°	2758.4	2072.0	1385.6	1275.5	1165.3	1095.6	1059.1	1044.8	1030.5	1044.4
3988.7	52.5°	2677.5	2008.2	1338.9	1242.9	1147.0	1066.9	1015.8	1001.6	987.6	1008.4
3962.4	55°	2510.2	1902.3	1294.4	1219.3	1144.3	1069.8	992.7	970.4	948.1	977.6
3777.3	57.5°	2261.6	1753.0	1244.4	1191.4	1138.4	1072.6	978.9	946.4	913.8	945.6
3432.8	60°	1928.1	1559.2	1190.3	1148.7	1107.0	1063.6	965.9	923.8	881.5	909.4
2967.0	62.5°	1552.5	1327.3	1102.1	1074.4	1046.7	1041.4	950.8	898.0	845.4	863.0
2491.8	65°	1223.7	1118.6	1013.5	1000.4	987.3	988.0	918.9	862.9	806.7	813.6
2026.2	67.5°	947.9	918.0	888.1	895.4	902.7	900.8	862.0	815.4	768.7	766.5
1595.4	70°	718.0	726.5	735.0	768.8	802.6	802.6	789.9	756.7	723.5	716.1
1219.7	72.5°	553.8	579.5	605.4	653.4	701.3	709.3	709.5	686.7	664.0	653.1
885.2	75°	430.0	453.4	476.7	530.5	584.2	621.4	618.3	600.8	583.2	572.8
599.9	77.5°	331.1	346.9	362.9	415.1	467.3	528.5	526.9	512.8	498.8	488.2
386.5	80°	248.2	254.8	261.4	305.6	349.7	422.9	422.6	410.9	399.1	390.3
237.7	82.5°	177.4	178.5	179.8	212.4	244.9	307.4	310.9	305.1	299.3	293.1
127.1	85°	107.3	106.7	106.0	129.9	153.7	200.1	204.7	198.5	192.3	185.3
52.7	87.5°	47.0	46.4	45.9	55.6	65.3	84.7	90.4	87.9	85.5	84.2
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):**

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
2142.0	0°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
2059.8	2.5°	2047.4	2035.0	2022.5	2010.1	2000.4	1990.7	1982.9	1975.1	1969.0	1963.0
1991.4	5°	1969.4	1947.3	1927.4	1907.3	1891.9	1876.5	1865.7	1855.0	1847.3	1839.7
1949.2	7.5°	1921.5	1893.7	1869.3	1844.8	1826.5	1808.3	1795.4	1782.6	1773.8	1765.1
1948.2	10°	1918.3	1888.4	1860.9	1833.3	1811.5	1789.5	1775.2	1760.8	1752.5	1744.2
1989.7	12.5°	1966.2	1942.9	1914.4	1885.9	1858.0	1830.0	1811.6	1793.1	1783.8	1774.6
2057.3	15°	2051.2	2045.1	2020.4	1995.7	1955.9	1916.1	1888.0	1859.9	1847.0	1834.2
2114.2	17.5°	2133.3	2152.2	2132.3	2112.4	2059.7	2007.0	1965.6	1924.2	1905.1	1885.9
2123.9	20°	2163.8	2203.6	2194.4	2185.1	2124.9	2064.7	2013.9	1963.2	1938.8	1914.3
2069.5	22.5°	2121.3	2173.2	2178.8	2184.3	2126.8	2069.2	2017.0	1964.6	1938.9	1913.1
1971.8	25°	2022.9	2073.9	2093.0	2112.0	2064.8	2017.7	1971.2	1924.8	1902.5	1880.2
1861.9	27.5°	1902.8	1943.7	1964.9	1986.2	1952.6	1919.1	1883.0	1846.9	1831.9	1816.9
1751.4	30°	1785.3	1819.4	1836.6	1853.9	1828.3	1802.7	1776.9	1750.9	1743.2	1735.5
1639.4	32.5°	1671.9	1704.5	1723.7	1742.9	1719.4	1695.8	1675.2	1654.6	1649.5	1644.5
1530.4	35°	1562.7	1595.0	1618.0	1641.0	1624.2	1607.5	1588.5	1569.5	1561.8	1554.3
1426.5	37.5°	1458.6	1490.8	1519.3	1547.7	1540.0	1532.3	1514.8	1497.2	1483.3	1469.5
1329.2	40°	1360.3	1391.4	1424.1	1456.9	1458.8	1460.6	1445.7	1430.8	1410.6	1390.6
1240.1	42.5°	1269.6	1299.1	1334.4	1369.8	1379.2	1388.7	1376.1	1363.6	1338.5	1313.5
1163.7	45°	1191.6	1219.6	1256.3	1292.9	1306.5	1320.0	1308.7	1297.4	1268.7	1240.1
1102.6	47.5°	1130.0	1157.3	1193.5	1229.6	1245.2	1260.9	1253.0	1245.1	1219.6	1194.1
1058.2	50°	1084.1	1109.8	1142.2	1174.6	1194.6	1214.7	1214.2	1213.8	1193.5	1173.1
1029.1	52.5°	1052.7	1076.3	1106.5	1136.7	1160.5	1184.2	1188.5	1192.8	1176.2	1159.6
1007.0	55°	1032.5	1058.0	1084.5	1110.8	1136.0	1161.2	1167.2	1173.1	1158.6	1144.1
977.3	57.5°	1007.2	1037.1	1063.3	1089.5	1114.9	1140.2	1146.2	1152.2	1137.6	1122.9
937.2	60°	971.5	1005.9	1032.4	1059.1	1084.5	1110.0	1116.6	1123.2	1108.9	1094.7
880.7	62.5°	920.7	960.8	989.2	1017.6	1040.9	1064.2	1070.6	1076.9	1064.0	1051.1
820.3	65°	863.2	906.2	933.3	960.4	981.0	1001.5	1008.0	1014.4	1002.0	989.6
764.4	67.5°	804.0	843.7	869.4	895.1	912.8	930.6	936.9	943.2	931.7	920.4
708.7	70°	743.5	778.4	800.6	822.8	838.8	854.8	860.9	867.0	857.7	848.4
642.3	72.5°	669.8	697.2	717.2	737.3	753.0	768.7	775.9	783.1	775.4	767.7
562.4	75°	582.8	603.1	621.3	639.5	653.8	668.1	675.6	683.2	679.4	675.6
477.7	77.5°	494.3	510.8	526.5	542.1	557.1	572.1	579.1	586.2	580.9	575.5
381.4	80°	395.2	408.9	422.1	435.2	446.6	458.0	467.4	476.7	474.4	472.2
286.9	82.5°	285.7	284.6	280.0	275.3	299.7	324.0	340.0	355.9	354.9	353.8
178.4	85°	172.4	166.4	153.7	141.0	163.7	186.6	206.3	226.0	224.4	222.7
82.9	87.5°	82.6	82.4	72.7	62.9	72.4	82.0	90.0	98.0	96.0	93.9
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):**

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
2142.0	0°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
1957.4	2.5°	1951.7	1944.7	1951.7	1957.4	1963.0	1969.0	1975.1	1982.9	1990.7	2000.4
1833.8	5°	1828.0	1822.2	1828.0	1833.8	1839.7	1847.3	1855.0	1865.7	1876.5	1891.9
1759.9	7.5°	1754.7	1750.7	1754.7	1759.9	1765.1	1773.8	1782.6	1795.4	1808.3	1826.5
1739.7	10°	1735.3	1733.5	1735.3	1739.7	1744.2	1752.5	1760.8	1775.2	1789.5	1811.5
1770.8	12.5°	1767.0	1766.3	1767.0	1770.8	1774.6	1783.8	1793.1	1811.6	1830.0	1858.0
1829.2	15°	1824.3	1823.9	1824.3	1829.2	1834.2	1847.0	1859.9	1888.0	1916.1	1955.9
1879.7	17.5°	1873.4	1872.4	1873.4	1879.7	1885.9	1905.1	1924.2	1965.6	2007.0	2059.7
1906.5	20°	1898.7	1896.2	1898.7	1906.5	1914.3	1938.8	1963.2	2013.9	2064.7	2124.9
1904.4	22.5°	1895.8	1892.1	1895.8	1904.4	1913.1	1938.9	1964.6	2017.0	2069.2	2126.8
1872.0	25°	1864.0	1859.2	1864.0	1872.0	1880.2	1902.5	1924.8	1971.2	2017.7	2064.8
1813.2	27.5°	1809.5	1808.3	1809.5	1813.2	1816.9	1831.9	1846.9	1883.0	1919.1	1952.6
1735.5	30°	1735.5	1736.8	1735.5	1735.5	1735.5	1743.2	1750.9	1776.9	1802.7	1828.3
1645.2	32.5°	1645.9	1647.2	1645.9	1645.2	1644.5	1649.5	1654.6	1675.2	1695.8	1719.4
1552.6	35°	1551.0	1550.2	1551.0	1552.6	1554.3	1561.8	1569.5	1588.5	1607.5	1624.2
1462.1	37.5°	1454.8	1450.7	1454.8	1462.1	1469.5	1483.3	1497.2	1514.8	1532.3	1540.0
1376.9	40°	1363.4	1355.4	1363.4	1376.9	1390.6	1410.6	1430.8	1445.7	1460.6	1458.8
1293.6	42.5°	1273.8	1260.9	1273.8	1293.6	1313.5	1338.5	1363.6	1376.1	1388.7	1379.2
1216.9	45°	1193.6	1178.7	1193.6	1216.9	1240.1	1268.7	1297.4	1308.7	1320.0	1306.5
1172.6	47.5°	1151.1	1136.7	1151.1	1172.6	1194.1	1219.6	1245.1	1253.0	1260.9	1245.2
1153.2	50°	1133.3	1119.5	1133.3	1153.2	1173.1	1193.5	1213.8	1214.2	1214.7	1194.6
1141.8	52.5°	1124.0	1111.3	1124.0	1141.8	1159.6	1176.2	1192.8	1188.5	1184.2	1160.5
1128.5	55°	1112.9	1101.4	1112.9	1128.5	1144.1	1158.6	1173.1	1167.2	1161.2	1136.0
1107.5	57.5°	1091.9	1080.0	1091.9	1107.5	1122.9	1137.6	1152.2	1146.2	1140.2	1114.9
1078.7	60°	1062.8	1050.4	1062.8	1078.7	1094.7	1108.9	1123.2	1116.6	1110.0	1084.5
1034.3	62.5°	1017.6	1002.8	1017.6	1034.3	1051.1	1064.0	1076.9	1070.6	1064.2	1040.9
973.3	65°	957.1	944.4	957.1	973.3	989.6	1002.0	1014.4	1008.0	1001.5	981.0
905.3	67.5°	890.2	878.7	890.2	905.3	920.4	931.7	943.2	936.9	930.6	912.8
833.9	70°	819.5	806.3	819.5	833.9	848.4	857.7	867.0	860.9	854.8	838.8
753.9	72.5°	740.2	727.4	740.2	753.9	767.7	775.4	783.1	775.9	768.7	753.0
664.0	75°	652.5	640.3	652.5	664.0	675.6	679.4	683.2	675.6	668.1	653.8
563.8	77.5°	552.2	542.5	552.2	563.8	575.5	580.9	586.2	579.1	572.1	557.1
456.5	80°	440.7	422.5	440.7	456.5	472.2	474.4	476.7	467.4	458.0	446.6
340.6	82.5°	327.3	315.6	327.3	340.6	353.8	354.9	355.9	340.0	324.0	299.7
212.4	85°	202.0	191.5	202.0	212.4	222.7	224.4	226.0	206.3	186.6	163.7
88.6	87.5°	83.2	78.1	83.2	88.6	93.9	96.0	98.0	90.0	82.0	72.4
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°
2142.0	0°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
2010.1	2.5°	2022.5	2035.0	2047.4	2059.8	2073.9	2088.1	2103.8	2119.6	2139.1	2156.6
1907.3	5°	1927.4	1947.3	1969.4	1991.4	2016.3	2041.3	2071.1	2100.9	2135.0	2169.5
1844.8	7.5°	1869.3	1893.7	1921.5	1949.2	1982.1	2015.0	2054.5	2094.1	2138.3	2185.4
1833.3	10°	1860.9	1888.4	1918.3	1948.2	1981.0	2013.9	2055.7	2097.4	2144.8	2203.0
1885.9	12.5°	1914.4	1942.9	1966.2	1989.7	2011.4	2033.3	2067.3	2101.5	2145.7	2206.7
1995.7	15°	2020.4	2045.1	2051.2	2057.3	2054.4	2051.4	2067.7	2084.0	2119.4	2187.0
2112.4	17.5°	2132.3	2152.2	2133.3	2114.2	2078.4	2042.5	2036.6	2030.6	2052.4	2131.9
2185.1	20°	2194.4	2203.6	2163.8	2123.9	2061.6	1999.4	1971.4	1943.5	1949.2	2041.9
2184.3	22.5°	2178.8	2173.2	2121.3	2069.5	1998.3	1927.3	1885.9	1844.6	1833.3	1938.8
2112.0	25°	2093.0	2073.9	2022.9	1971.8	1907.9	1844.0	1796.3	1748.7	1718.3	1826.3
1986.2	27.5°	1964.9	1943.7	1902.8	1861.9	1809.4	1756.9	1710.9	1664.8	1627.8	1726.2
1853.9	30°	1836.6	1819.4	1785.3	1751.4	1707.8	1664.3	1627.6	1591.1	1562.1	1644.7
1742.9	32.5°	1723.7	1704.5	1671.9	1639.4	1604.5	1569.7	1548.1	1526.5	1513.6	1580.2
1641.0	35°	1618.0	1595.0	1562.7	1530.4	1504.0	1477.4	1471.4	1465.5	1470.9	1526.3
1547.7	37.5°	1519.3	1490.8	1458.6	1426.5	1407.5	1388.4	1395.0	1401.6	1421.1	1469.6
1456.9	40°	1424.1	1391.4	1360.3	1329.2	1315.5	1301.8	1316.7	1331.5	1361.5	1405.5
1369.8	42.5°	1334.4	1299.1	1269.6	1240.1	1228.9	1217.7	1237.4	1257.2	1295.0	1335.5
1292.9	45°	1256.3	1219.6	1191.6	1163.7	1154.2	1144.8	1163.9	1183.2	1219.8	1260.9
1229.6	47.5°	1193.5	1157.3	1130.0	1102.6	1093.8	1085.0	1101.1	1117.2	1148.7	1201.7
1174.6	50°	1142.2	1109.8	1084.1	1058.2	1044.4	1030.5	1044.8	1059.1	1095.6	1165.3
1136.7	52.5°	1106.5	1076.3	1052.7	1029.1	1008.4	987.6	1001.6	1015.8	1066.9	1147.0
1110.8	55°	1084.5	1058.0	1032.5	1007.0	977.6	948.1	970.4	992.7	1069.8	1144.3
1089.5	57.5°	1063.3	1037.1	1007.2	977.3	945.6	913.8	946.4	978.9	1072.6	1138.4
1059.1	60°	1032.4	1005.9	971.5	937.2	909.4	881.5	923.8	965.9	1063.6	1107.0
1017.6	62.5°	989.2	960.8	920.7	880.7	863.0	845.4	898.0	950.8	1041.4	1046.7
960.4	65°	933.3	906.2	863.2	820.3	813.6	806.7	862.9	918.9	988.0	987.3
895.1	67.5°	869.4	843.7	804.0	764.4	766.5	768.7	815.4	862.0	900.8	902.7
822.8	70°	800.6	778.4	743.5	708.7	716.1	723.5	756.7	789.9	802.6	802.6
737.3	72.5°	717.2	697.2	669.8	642.3	653.1	664.0	686.7	709.5	709.3	701.3
639.5	75°	621.3	603.1	582.8	562.4	572.8	583.2	600.8	618.3	621.4	584.2
542.1	77.5°	526.5	510.8	494.3	477.7	488.2	498.8	512.8	526.9	528.5	467.3
435.2	80°	422.1	408.9	395.2	381.4	390.3	399.1	410.9	422.6	422.9	349.7
275.3	82.5°	280.0	284.6	285.7	286.9	293.1	299.3	305.1	310.9	307.4	244.9
141.0	85°	153.7	166.4	172.4	178.4	185.3	192.3	198.5	204.7	200.1	153.7
62.9	87.5°	72.7	82.4	82.6	82.9	84.2	85.5	87.9	90.4	84.7	65.3
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):**

325°		330°	335°	340°	345°	350°	355°	360°
2142.0	0°	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0	2142.0
2174.7	2.5°	2192.8	2211.7	2230.6	2249.3	2268.1	2285.8	2303.5
2206.1	5°	2242.7	2281.8	2321.0	2359.9	2398.8	2437.9	2476.9
2236.4	7.5°	2287.5	2345.4	2403.3	2462.9	2522.4	2586.7	2651.2
2263.5	10°	2323.8	2394.2	2464.6	2543.2	2621.8	2703.3	2784.7
2275.0	12.5°	2343.3	2426.4	2509.4	2598.5	2687.6	2777.0	2866.5
2266.1	15°	2345.2	2440.7	2536.3	2633.0	2729.7	2822.9	2916.2
2227.0	17.5°	2322.1	2433.1	2544.1	2649.5	2755.0	2849.6	2944.2
2159.7	20°	2277.6	2412.1	2546.5	2662.4	2778.3	2876.7	2975.0
2080.7	22.5°	2222.7	2386.3	2549.8	2679.8	2809.8	2910.3	3010.8
1992.5	25°	2158.8	2360.8	2562.8	2711.4	2859.9	2958.3	3056.8
1911.9	27.5°	2097.6	2343.8	2589.9	2760.7	2931.4	3025.4	3119.3
1844.5	30°	2044.3	2335.8	2627.1	2824.6	3022.1	3112.8	3203.5
1786.4	32.5°	1992.5	2325.9	2659.1	2891.3	3123.4	3213.1	3303.0
1729.3	35°	1932.2	2307.3	2682.6	2967.2	3251.8	3337.8	3423.8
1662.0	37.5°	1854.5	2275.5	2696.6	3052.3	3407.9	3517.6	3627.2
1581.8	40°	1758.1	2231.7	2705.4	3160.3	3615.0	3774.8	3934.6
1493.3	42.5°	1651.1	2186.5	2722.1	3301.6	3881.0	4111.7	4342.3
1399.3	45°	1537.7	2144.5	2751.4	3487.5	4223.5	4534.6	4845.7
1324.9	47.5°	1448.1	2109.8	2771.6	3685.6	4599.6	5037.5	5475.3
1275.5	50°	1385.6	2072.0	2758.4	3869.4	4980.3	5640.5	6300.6
1242.9	52.5°	1338.9	2008.2	2677.5	3988.7	5299.9	6273.9	7247.9
1219.3	55°	1294.4	1902.3	2510.2	3962.4	5414.5	6835.4	8256.4
1191.4	57.5°	1244.4	1753.0	2261.6	3777.3	5293.1	7233.4	9173.7
1148.7	60°	1190.3	1559.2	1928.1	3432.8	4937.5	7332.8	9728.1
1074.4	62.5°	1102.1	1327.3	1552.5	2967.0	4381.6	6914.1	9446.5
1000.4	65°	1013.5	1118.6	1223.7	2491.8	3760.0	6321.5	8883.1
895.4	67.5°	888.1	918.0	947.9	2026.2	3104.6	5616.4	8128.1
768.8	70°	735.0	726.5	718.0	1595.4	2472.8	4847.0	7221.1
653.4	72.5°	605.4	579.5	553.8	1219.7	1885.5	4012.9	6140.3
530.5	75°	476.7	453.4	430.0	885.2	1340.4	3056.7	4773.0
415.1	77.5°	362.9	346.9	331.1	599.9	868.6	2139.4	3410.2
305.6	80°	261.4	254.8	248.2	386.5	524.8	1378.4	2232.0
212.4	82.5°	179.8	178.5	177.4	237.7	298.2	797.8	1297.4
129.9	85°	106.0	106.7	107.3	127.1	147.0	358.9	570.8
55.6	87.5°	45.9	46.4	47.0	52.7	58.4	117.5	176.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)