

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: P949460

Luminaire Tested: **GALN-SB4A-950-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949460
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-950-U-SLL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12462 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

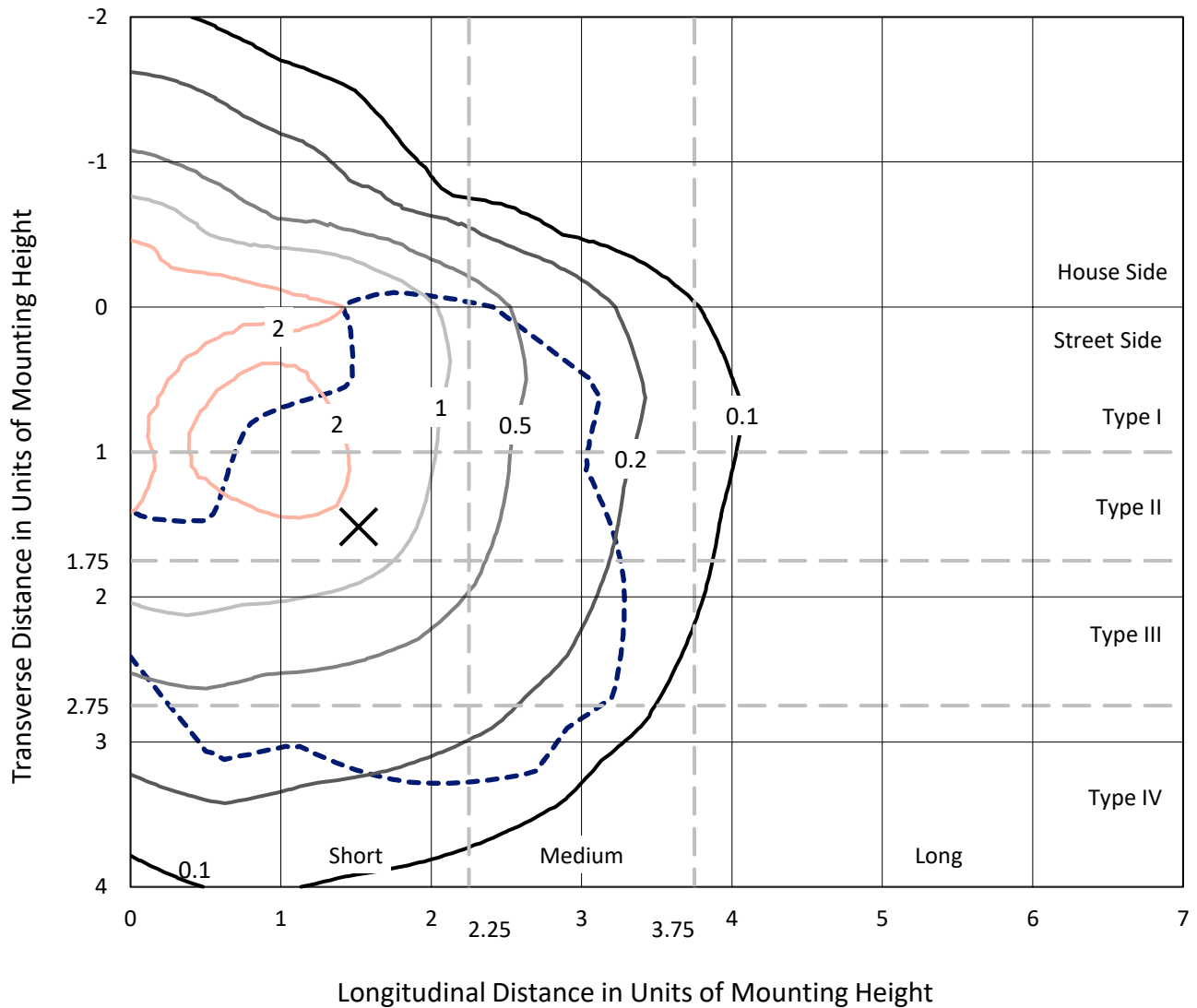
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

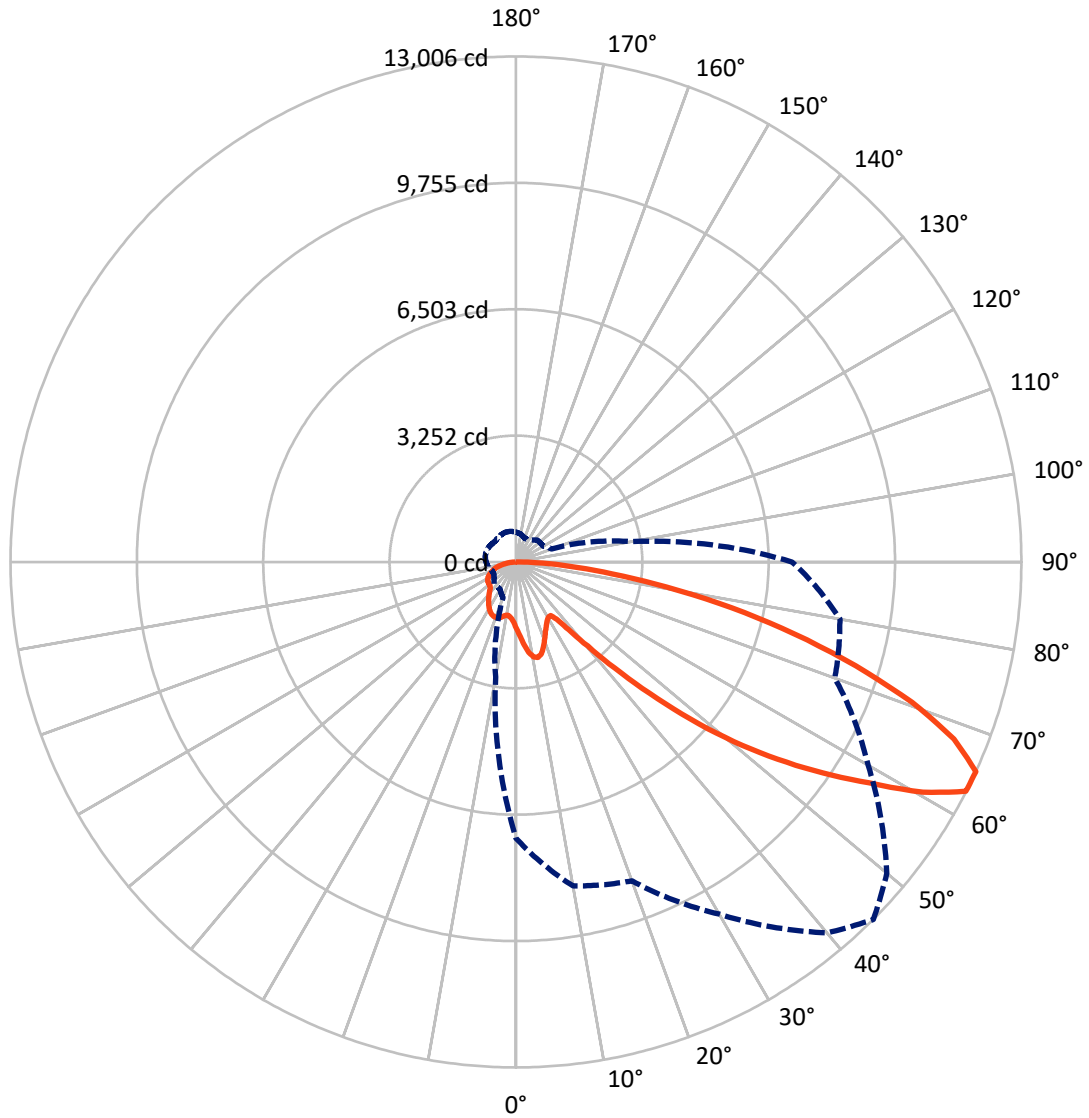
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3167.2	0.0	3167.2
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	9294.8	0.0	9294.8
	% Fixture	74.6	0.0	74.6
Total	Lumens	12462.0	0.0	12462.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	1.4
10°-20°	533.6	4.3
20°-30°	824.3	6.6
30°-40°	1044.6	8.4
40°-50°	1575.5	12.6
50°-60°	2545.4	20.4
60°-70°	3173.3	25.5
70°-80°	2080.9	16.7
80°-90°	514.4	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°	12462.0	100.0
0°-180°	12462.0	100.0



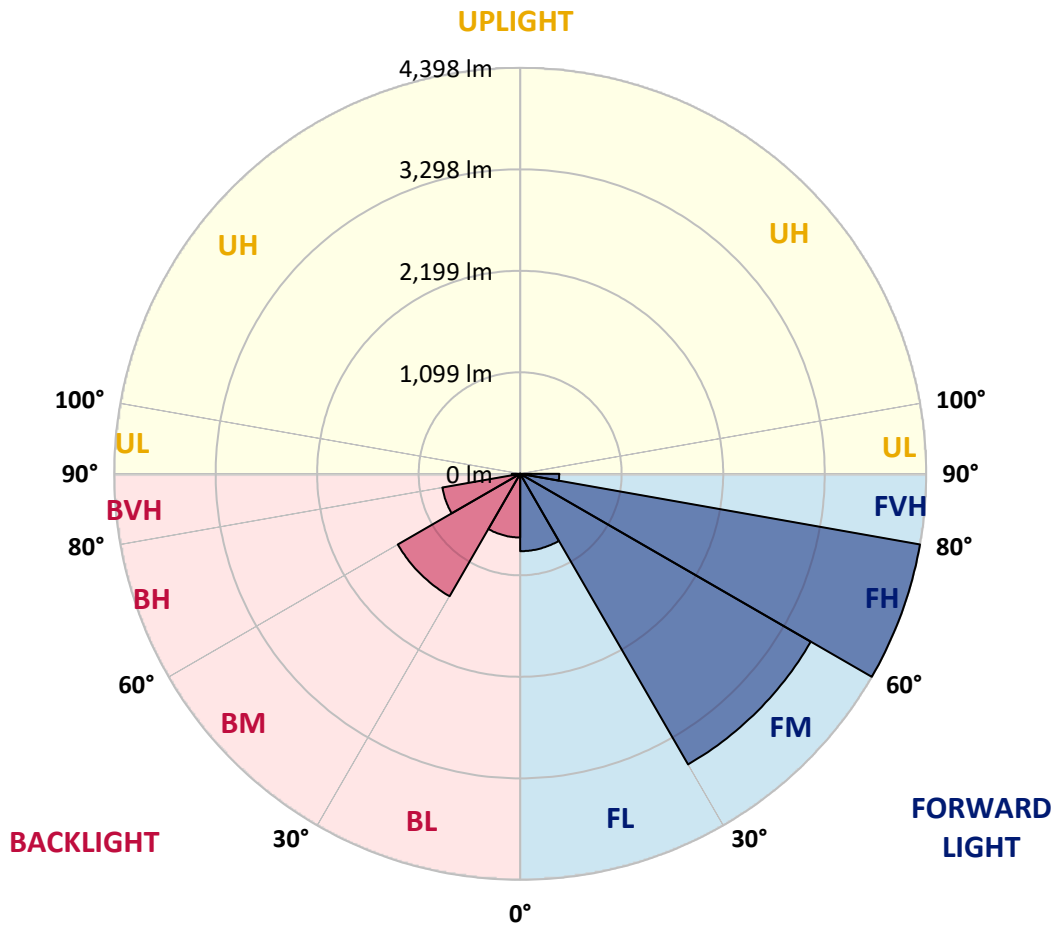
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.2	6.7			
FM (30°-60°)	3634.9	29.2			
FH (60°-80°)	4397.9	35.3			G2/5000
FVH (80°-90°)	423.8	3.4			G3/500
BL (0°-30°)	689.7	5.5	B2/1000		
BM (30°-60°)	1530.6	12.3	B2/2500		
BH (60°-80°)	856.3	6.9	B2/1000		G2/1000
BVH (80°-90°)	90.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
2.5°	1842.8	1849.8	1856.9	1866.8	1876.7	1882.6	1888.5	1891.5	1894.5	1893.1
5°	1981.6	2006.0	2030.5	2054.6	2078.9	2092.1	2105.2	2113.2	2121.2	2127.2
7.5°	2121.0	2160.7	2200.4	2236.1	2271.8	2293.3	2314.8	2326.4	2338.0	2343.6
10°	2227.9	2274.8	2321.8	2363.6	2405.5	2430.9	2456.2	2467.5	2478.7	2483.0
12.5°	2293.3	2344.2	2395.0	2432.9	2470.6	2489.0	2507.5	2513.6	2519.8	2520.5
15°	2333.1	2377.0	2420.9	2444.6	2468.4	2469.1	2469.7	2463.1	2456.6	2448.8
17.5°	2355.4	2385.1	2414.7	2415.2	2415.6	2389.0	2362.3	2337.9	2313.5	2296.2
20°	2380.1	2390.4	2400.8	2369.6	2338.3	2279.5	2220.8	2177.9	2135.1	2108.8
22.5°	2408.7	2395.1	2381.6	2316.9	2252.2	2165.7	2079.2	2025.7	1972.2	1943.1
25°	2445.5	2402.8	2360.0	2261.8	2163.5	2058.5	1953.5	1897.2	1841.1	1813.6
27.5°	2495.5	2419.1	2342.6	2212.5	2082.4	1966.0	1849.6	1794.3	1738.9	1713.0
30°	2562.9	2448.9	2335.0	2174.9	2014.7	1893.4	1772.2	1720.8	1669.4	1645.2
32.5°	2642.5	2486.4	2330.4	2149.2	1968.0	1854.0	1740.1	1699.8	1659.4	1642.0
35°	2739.1	2548.2	2357.3	2168.4	1979.6	1900.4	1821.3	1811.9	1802.5	1801.1
37.5°	2901.9	2677.2	2452.6	2281.0	2109.4	2104.2	2099.1	2142.1	2185.1	2207.5
40°	3147.8	2903.5	2659.2	2531.6	2404.0	2494.0	2584.1	2688.7	2793.2	2845.3
42.5°	3474.0	3231.6	2989.2	2915.7	2842.2	3038.6	3235.1	3425.3	3615.5	3727.1
45°	3876.7	3659.0	3441.2	3408.8	3376.3	3691.1	4005.9	4318.4	4630.9	4820.7
47.5°	4380.4	4168.6	3956.7	3950.2	3943.6	4397.7	4851.7	5309.2	5766.6	6035.2
50°	5040.6	4779.0	4517.4	4518.5	4519.6	5104.9	5690.1	6293.9	6897.8	7262.9
52.5°	5798.5	5481.7	5164.9	5132.9	5100.8	5799.8	6498.9	7246.0	7993.1	8430.7
55°	6605.3	6292.3	5979.3	5854.4	5729.6	6507.6	7285.6	8176.2	9066.9	9587.4
57.5°	7339.2	7168.7	6998.2	6747.7	6497.3	7282.9	8068.5	9077.4	10086.2	10731.6
60°	7782.7	8047.4	8312.2	8001.2	7690.2	8433.6	9177.1	10257.2	11337.3	12034.9
62.5°	7557.5	8280.9	9004.3	8969.2	8934.1	9615.1	10296.3	11323.9	12351.5	12996.3
65°	7106.7	7785.7	8464.6	8598.9	8733.2	9598.7	10464.3	11460.8	12457.2	13006.1
67.5°	6502.7	7148.5	7794.2	7857.2	7920.1	8821.9	9723.6	10724.4	11725.2	12155.2
70°	5777.1	6479.5	7181.9	7210.0	7238.2	8044.7	8851.0	9712.3	10573.4	10812.5
72.5°	4912.4	5718.4	6524.4	6544.7	6564.9	7195.8	7826.7	8471.8	9116.7	9140.9
75°	3818.5	4652.7	5486.9	5561.8	5636.7	6127.6	6618.5	7072.5	7526.6	7404.9
77.5°	2728.3	3507.0	4285.7	4392.9	4500.1	4873.3	5246.4	5568.5	5890.5	5681.4
80°	1785.6	2440.8	3095.8	3229.1	3362.3	3644.1	3925.8	4095.0	4264.0	3927.7
82.5°	1038.0	1485.8	1933.8	2082.6	2231.5	2425.5	2619.4	2690.0	2760.5	2496.1
85°	456.7	694.4	932.1	1058.7	1185.3	1344.7	1504.0	1544.0	1584.1	1372.4
87.5°	141.4	221.3	301.2	371.8	442.4	522.1	601.8	605.2	608.6	510.9
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°
1713.6	0°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
1894.5	2.5°	1891.5	1888.5	1882.6	1876.7	1866.8	1856.9	1849.8	1842.8	1828.7	1814.6
2121.2	5°	2113.2	2105.2	2092.1	2078.9	2054.6	2030.5	2006.0	1981.6	1950.4	1919.1
2338.0	7.5°	2326.4	2314.8	2293.3	2271.8	2236.1	2200.4	2160.7	2121.0	2069.4	2018.0
2478.7	10°	2467.5	2456.2	2430.9	2405.5	2363.6	2321.8	2274.8	2227.9	2162.7	2097.5
2519.8	12.5°	2513.6	2507.5	2489.0	2470.6	2432.9	2395.0	2344.2	2293.3	2221.7	2150.1
2456.6	15°	2463.1	2469.7	2469.1	2468.4	2444.6	2420.9	2377.0	2333.1	2258.4	2183.8
2313.5	17.5°	2337.9	2362.3	2389.0	2415.6	2415.2	2414.7	2385.1	2355.4	2279.7	2204.0
2135.1	20°	2177.9	2220.8	2279.5	2338.3	2369.6	2400.8	2390.4	2380.1	2301.4	2222.7
1972.2	22.5°	2025.7	2079.2	2165.7	2252.2	2316.9	2381.6	2395.1	2408.7	2328.3	2247.9
1841.1	25°	1897.2	1953.5	2058.5	2163.5	2261.8	2360.0	2402.8	2445.5	2366.7	2288.0
1738.9	27.5°	1794.3	1849.6	1966.0	2082.4	2212.5	2342.6	2419.1	2495.5	2420.4	2345.2
1669.4	30°	1720.8	1772.2	1893.4	2014.7	2174.9	2335.0	2448.9	2562.9	2490.3	2417.8
1659.4	32.5°	1699.8	1740.1	1854.0	1968.0	2149.2	2330.4	2486.4	2642.5	2570.6	2498.8
1802.5	35°	1811.9	1821.3	1900.4	1979.6	2168.4	2357.3	2548.2	2739.1	2670.3	2601.5
2185.1	37.5°	2142.1	2099.1	2104.2	2109.4	2281.0	2452.6	2677.2	2901.9	2814.1	2726.4
2793.2	40°	2688.7	2584.1	2494.0	2404.0	2531.6	2659.2	2903.5	3147.8	3020.0	2892.1
3615.5	42.5°	3425.3	3235.1	3038.6	2842.2	2915.7	2989.2	3231.6	3474.0	3289.4	3104.9
4630.9	45°	4318.4	4005.9	3691.1	3376.3	3408.8	3441.2	3659.0	3876.7	3627.8	3378.9
5766.6	47.5°	5309.2	4851.7	4397.7	3943.6	3950.2	3956.7	4168.6	4380.4	4030.1	3679.8
6897.8	50°	6293.9	5690.1	5104.9	4519.6	4518.5	4517.4	4779.0	5040.6	4512.5	3984.4
7993.1	52.5°	7246.0	6498.9	5799.8	5100.8	5132.9	5164.9	5481.7	5798.5	5019.2	4240.0
9066.9	55°	8176.2	7285.6	6507.6	5729.6	5854.4	5979.3	6292.3	6605.3	5468.5	4331.8
10086.2	57.5°	9077.4	8068.5	7282.9	6497.3	6747.7	6998.2	7168.7	7339.2	5786.9	4234.6
11337.3	60°	10257.2	9177.1	8433.6	7690.2	8001.2	8312.2	8047.4	7782.7	5866.5	3950.2
12351.5	62.5°	11323.9	10296.3	9615.1	8934.1	8969.2	9004.3	8280.9	7557.5	5531.4	3505.4
12457.2	65°	11460.8	10464.3	9598.7	8733.2	8598.9	8464.6	7785.7	7106.7	5057.4	3008.1
11725.2	67.5°	10724.4	9723.6	8821.9	7920.1	7857.2	7794.2	7148.5	6502.7	4493.3	2483.8
10573.4	70°	9712.3	8851.0	8044.7	7238.2	7210.0	7181.9	6479.5	5777.1	3877.7	1978.3
9116.7	72.5°	8471.8	7826.7	7195.8	6564.9	6544.7	6524.4	5718.4	4912.4	3210.4	1508.5
7526.6	75°	7072.5	6618.5	6127.6	5636.7	5561.8	5486.9	4652.7	3818.5	2445.4	1072.4
5890.5	77.5°	5568.5	5246.4	4873.3	4500.1	4392.9	4285.7	3507.0	2728.3	1711.6	694.9
4264.0	80°	4095.0	3925.8	3644.1	3362.3	3229.1	3095.8	2440.8	1785.6	1102.7	419.9
2760.5	82.5°	2690.0	2619.4	2425.5	2231.5	2082.6	1933.8	1485.8	1038.0	638.2	238.6
1584.1	85°	1544.0	1504.0	1344.7	1185.3	1058.7	932.1	694.4	456.7	287.1	117.6
608.6	87.5°	605.2	601.8	522.1	442.4	371.8	301.2	221.3	141.4	94.0	46.7
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
1713.6	0°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
1799.5	2.5°	1784.5	1769.4	1754.3	1739.8	1725.3	1711.3	1695.7	1683.1	1670.6	1659.2
1888.0	5°	1856.9	1825.5	1794.2	1764.9	1735.7	1708.0	1680.8	1656.9	1633.1	1613.1
1970.3	7.5°	1922.7	1876.4	1830.0	1789.2	1748.4	1710.7	1675.4	1643.7	1612.0	1585.7
2034.6	10°	1971.7	1915.4	1859.1	1810.8	1762.4	1715.9	1678.0	1644.6	1611.2	1584.9
2078.8	12.5°	2007.6	1941.2	1874.7	1820.1	1765.4	1716.6	1681.3	1653.9	1626.7	1609.2
2106.5	15°	2029.1	1952.7	1876.2	1812.9	1749.7	1695.5	1667.3	1654.2	1641.2	1643.5
2119.7	17.5°	2035.3	1946.5	1857.8	1781.7	1705.6	1642.0	1624.5	1629.3	1634.1	1662.7
2130.0	20°	2037.3	1929.7	1822.1	1727.8	1633.5	1559.4	1554.8	1577.2	1599.5	1649.3
2143.9	22.5°	2039.9	1909.1	1778.2	1664.6	1551.1	1466.7	1475.7	1508.8	1541.9	1598.7
2169.2	25°	2050.3	1888.7	1727.1	1594.1	1461.1	1374.7	1399.0	1437.1	1475.3	1526.4
2208.7	27.5°	2072.0	1875.1	1678.1	1529.6	1381.0	1302.3	1331.9	1368.7	1405.6	1447.6
2259.7	30°	2101.7	1868.7	1635.5	1475.7	1315.8	1249.7	1272.9	1302.1	1331.5	1366.3
2313.1	32.5°	2127.4	1860.8	1594.1	1429.2	1264.2	1210.9	1221.2	1238.5	1255.8	1283.6
2373.8	35°	2146.2	1845.9	1545.8	1383.5	1221.1	1176.7	1172.5	1177.2	1182.0	1203.2
2441.9	37.5°	2157.4	1820.5	1483.6	1329.7	1175.7	1136.9	1121.3	1116.0	1110.8	1126.0
2528.3	40°	2164.4	1785.4	1406.5	1265.5	1124.4	1089.3	1065.3	1053.4	1041.5	1052.4
2641.3	42.5°	2177.7	1749.3	1320.9	1194.7	1068.4	1036.0	1005.8	990.0	974.2	983.1
2790.1	45°	2201.2	1715.7	1230.2	1119.5	1008.7	975.8	946.6	931.2	915.9	923.4
2948.6	47.5°	2217.3	1687.9	1158.5	1059.9	961.4	919.0	893.8	880.9	868.0	875.1
3095.6	50°	2206.8	1657.7	1108.5	1020.4	932.3	876.5	847.3	835.8	824.5	835.5
3191.1	52.5°	2142.0	1606.6	1071.2	994.4	917.6	853.5	812.6	801.3	790.1	806.7
3170.0	55°	2008.2	1521.9	1035.5	975.5	915.5	855.8	794.2	776.3	758.5	782.1
3021.9	57.5°	1809.3	1402.5	995.6	953.2	910.7	858.1	783.2	757.1	731.1	756.5
2746.3	60°	1542.5	1247.4	952.3	919.0	885.6	850.9	772.8	739.0	705.2	727.5
2373.7	62.5°	1242.0	1061.8	881.7	859.5	837.4	833.1	760.7	718.5	676.3	690.5
1993.5	65°	979.0	894.9	810.8	800.3	789.9	790.4	735.2	690.3	645.4	650.9
1621.0	67.5°	758.3	734.4	710.5	716.4	722.1	720.7	689.7	652.3	615.0	613.3
1276.3	70°	574.4	581.2	588.0	615.1	642.1	642.1	631.9	605.4	578.8	572.9
975.8	72.5°	443.1	463.7	484.3	522.7	561.0	567.5	567.6	549.4	531.2	522.5
708.2	75°	344.0	362.7	381.4	424.4	467.4	497.1	494.6	480.6	466.5	458.3
479.9	77.5°	264.9	277.6	290.3	332.1	373.8	422.8	421.5	410.3	399.0	390.6
309.2	80°	198.6	203.8	209.1	244.5	279.8	338.3	338.1	328.7	319.3	312.2
190.2	82.5°	141.9	142.8	143.9	169.9	196.0	245.9	248.7	244.1	239.5	234.5
101.7	85°	85.8	85.4	84.8	103.9	123.0	160.1	163.7	158.8	153.9	148.3
42.2	87.5°	37.6	37.2	36.7	44.5	52.3	67.7	72.3	70.4	68.4	67.3
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
1713.6	0°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
1647.9	2.5°	1637.9	1628.0	1618.0	1608.1	1600.4	1592.6	1586.4	1580.1	1575.3	1570.4
1593.2	5°	1575.5	1557.9	1541.9	1525.9	1513.6	1501.2	1492.6	1484.0	1477.9	1471.8
1559.4	7.5°	1537.3	1515.0	1495.4	1475.9	1461.3	1446.7	1436.4	1426.1	1419.1	1412.1
1558.6	10°	1534.7	1510.8	1488.7	1466.7	1449.2	1431.7	1420.2	1408.7	1402.0	1395.4
1591.9	12.5°	1573.0	1554.4	1531.6	1508.8	1486.4	1464.1	1449.3	1434.5	1427.1	1419.7
1645.9	15°	1641.0	1636.2	1616.4	1596.6	1564.8	1532.9	1510.4	1488.0	1477.6	1467.4
1691.4	17.5°	1706.7	1721.9	1705.9	1690.0	1647.8	1605.7	1572.5	1539.4	1524.1	1508.8
1699.2	20°	1731.1	1763.0	1755.6	1748.2	1700.0	1651.8	1611.2	1570.6	1551.1	1531.5
1655.6	22.5°	1697.1	1738.6	1743.1	1747.5	1701.5	1655.4	1613.6	1571.7	1551.1	1530.5
1577.5	25°	1618.4	1659.2	1674.4	1689.6	1651.9	1614.2	1577.0	1539.9	1522.0	1504.2
1489.5	27.5°	1522.3	1555.0	1572.0	1589.0	1562.1	1535.3	1506.4	1477.6	1465.6	1453.6
1401.2	30°	1428.3	1455.5	1469.3	1483.2	1462.7	1442.2	1421.5	1400.8	1394.6	1388.5
1311.5	32.5°	1337.6	1363.7	1379.0	1394.4	1375.6	1356.7	1340.2	1323.7	1319.7	1315.7
1224.4	35°	1250.2	1276.0	1294.4	1312.8	1299.4	1286.1	1270.8	1255.6	1249.5	1243.5
1141.2	37.5°	1166.9	1192.7	1215.5	1238.2	1232.0	1225.8	1211.8	1197.8	1186.7	1175.6
1063.4	40°	1088.3	1113.1	1139.3	1165.5	1167.1	1168.5	1156.6	1144.7	1128.5	1112.5
992.1	42.5°	1015.7	1039.3	1067.6	1095.8	1103.4	1111.0	1100.9	1090.9	1070.9	1050.8
931.0	45°	953.3	975.7	1005.0	1034.4	1045.2	1056.1	1047.0	1038.0	1015.0	992.1
882.1	47.5°	904.0	925.9	954.8	983.7	996.2	1008.7	1002.4	996.1	975.7	955.3
846.6	50°	867.3	887.9	913.8	939.7	955.7	971.8	971.4	971.1	954.8	938.5
823.3	52.5°	842.2	861.1	885.2	909.4	928.4	947.4	950.8	954.3	941.0	927.7
805.7	55°	826.0	846.4	867.6	888.7	908.8	929.0	933.8	938.5	926.9	915.3
781.9	57.5°	805.8	829.7	850.6	871.6	891.9	912.2	917.0	921.8	910.1	898.4
749.8	60°	777.2	804.7	826.0	847.3	867.7	888.1	893.3	898.6	887.1	875.8
704.6	62.5°	736.6	768.7	791.4	814.1	832.7	851.4	856.5	861.6	851.2	840.9
656.3	65°	690.6	725.0	746.7	768.4	784.8	801.3	806.4	811.6	801.6	791.7
611.5	67.5°	643.2	675.0	695.6	716.1	730.3	744.5	749.6	754.6	745.4	736.3
567.0	70°	594.8	622.7	640.5	658.2	671.1	683.9	688.7	693.6	686.2	678.7
513.9	72.5°	535.9	557.8	573.8	589.8	602.4	615.0	620.7	626.5	620.4	614.2
449.9	75°	466.2	482.5	497.1	511.6	523.0	534.5	540.5	546.6	543.5	540.5
382.2	77.5°	395.5	408.7	421.2	433.7	445.7	457.7	463.3	469.0	464.8	460.4
305.1	80°	316.2	327.1	337.7	348.2	357.3	366.4	373.9	381.4	379.6	377.8
229.5	82.5°	228.6	227.7	224.0	220.3	239.8	259.2	272.0	284.7	283.9	283.1
142.7	85°	138.0	133.2	123.0	112.8	131.0	149.3	165.1	180.8	179.5	178.2
66.3	87.5°	66.1	65.9	58.1	50.3	57.9	65.6	72.0	78.4	76.8	75.1
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°
1713.6	0°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
1565.9	2.5°	1561.4	1555.8	1561.4	1565.9	1570.4	1575.3	1580.1	1586.4	1592.6	1600.4
1467.1	5°	1462.4	1457.8	1462.4	1467.1	1471.8	1477.9	1484.0	1492.6	1501.2	1513.6
1407.9	7.5°	1403.8	1400.6	1403.8	1407.9	1412.1	1419.1	1426.1	1436.4	1446.7	1461.3
1391.8	10°	1388.3	1386.8	1388.3	1391.8	1395.4	1402.0	1408.7	1420.2	1431.7	1449.2
1416.7	12.5°	1413.6	1413.1	1413.6	1416.7	1419.7	1427.1	1434.5	1449.3	1464.1	1486.4
1463.4	15°	1459.5	1459.2	1459.5	1463.4	1467.4	1477.6	1488.0	1510.4	1532.9	1564.8
1503.8	17.5°	1498.7	1497.9	1498.7	1503.8	1508.8	1524.1	1539.4	1572.5	1605.7	1647.8
1525.2	20°	1519.0	1517.0	1519.0	1525.2	1531.5	1551.1	1570.6	1611.2	1651.8	1700.0
1523.6	22.5°	1516.7	1513.7	1516.7	1523.6	1530.5	1551.1	1571.7	1613.6	1655.4	1701.5
1497.7	25°	1491.2	1487.4	1491.2	1497.7	1504.2	1522.0	1539.9	1577.0	1614.2	1651.9
1450.6	27.5°	1447.6	1446.7	1447.6	1450.6	1453.6	1465.6	1477.6	1506.4	1535.3	1562.1
1388.5	30°	1388.5	1389.4	1388.5	1388.5	1388.5	1394.6	1400.8	1421.5	1442.2	1462.7
1316.2	32.5°	1316.8	1317.8	1316.8	1316.2	1315.7	1319.7	1323.7	1340.2	1356.7	1375.6
1242.2	35°	1240.8	1240.2	1240.8	1242.2	1243.5	1249.5	1255.6	1270.8	1286.1	1299.4
1169.8	37.5°	1163.9	1160.6	1163.9	1169.8	1175.6	1186.7	1197.8	1211.8	1225.8	1232.0
1101.6	40°	1090.8	1084.3	1090.8	1101.6	1112.5	1128.5	1144.7	1156.6	1168.5	1167.1
1035.0	42.5°	1019.1	1008.7	1019.1	1035.0	1050.8	1070.9	1090.9	1100.9	1111.0	1103.4
973.5	45°	954.9	943.0	954.9	973.5	992.1	1015.0	1038.0	1047.0	1056.1	1045.2
938.1	47.5°	920.9	909.4	920.9	938.1	955.3	975.7	996.1	1002.4	1008.7	996.2
922.6	50°	906.7	895.6	906.7	922.6	938.5	954.8	971.1	971.4	971.8	955.7
913.4	52.5°	899.2	889.0	899.2	913.4	927.7	941.0	954.3	950.8	947.4	928.4
902.8	55°	890.4	881.1	890.4	902.8	915.3	926.9	938.5	933.8	929.0	908.8
886.0	57.5°	873.6	864.0	873.6	886.0	898.4	910.1	921.8	917.0	912.2	891.9
863.0	60°	850.2	840.4	850.2	863.0	875.8	887.1	898.6	893.3	888.1	867.7
827.5	62.5°	814.1	802.2	814.1	827.5	840.9	851.2	861.6	856.5	851.4	832.7
778.7	65°	765.7	755.6	765.7	778.7	791.7	801.6	811.6	806.4	801.3	784.8
724.2	67.5°	712.2	702.9	712.2	724.2	736.3	745.4	754.6	749.6	744.5	730.3
667.2	70°	655.6	645.1	655.6	667.2	678.7	686.2	693.6	688.7	683.9	671.1
603.1	72.5°	592.1	582.0	592.1	603.1	614.2	620.4	626.5	620.7	615.0	602.4
531.3	75°	522.0	512.2	522.0	531.3	540.5	543.5	546.6	540.5	534.5	523.0
451.1	77.5°	441.8	434.0	441.8	451.1	460.4	464.8	469.0	463.3	457.7	445.7
365.2	80°	352.6	338.0	352.6	365.2	377.8	379.6	381.4	373.9	366.4	357.3
272.5	82.5°	261.8	252.5	261.8	272.5	283.1	283.9	284.7	272.0	259.2	239.8
169.9	85°	161.6	153.2	161.6	169.9	178.2	179.5	180.8	165.1	149.3	131.0
70.9	87.5°	66.5	62.5	66.5	70.9	75.1	76.8	78.4	72.0	65.6	57.9
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):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
1713.6	0°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
1608.1	2.5°	1618.0	1628.0	1637.9	1647.9	1659.2	1670.6	1683.1	1695.7	1711.3	1725.3
1525.9	5°	1541.9	1557.9	1575.5	1593.2	1613.1	1633.1	1656.9	1680.8	1708.0	1735.7
1475.9	7.5°	1495.4	1515.0	1537.3	1559.4	1585.7	1612.0	1643.7	1675.4	1710.7	1748.4
1466.7	10°	1488.7	1510.8	1534.7	1558.6	1584.9	1611.2	1644.6	1678.0	1715.9	1762.4
1508.8	12.5°	1531.6	1554.4	1573.0	1591.9	1609.2	1626.7	1653.9	1681.3	1716.6	1765.4
1596.6	15°	1616.4	1636.2	1641.0	1645.9	1643.5	1641.2	1654.2	1667.3	1695.5	1749.7
1690.0	17.5°	1705.9	1721.9	1706.7	1691.4	1662.7	1634.1	1629.3	1624.5	1642.0	1705.6
1748.2	20°	1755.6	1763.0	1731.1	1699.2	1649.3	1599.5	1577.2	1554.8	1559.4	1633.5
1747.5	22.5°	1743.1	1738.6	1697.1	1655.6	1598.7	1541.9	1508.8	1475.7	1466.7	1551.1
1689.6	25°	1674.4	1659.2	1618.4	1577.5	1526.4	1475.3	1437.1	1399.0	1374.7	1461.1
1589.0	27.5°	1572.0	1555.0	1522.3	1489.5	1447.6	1405.6	1368.7	1331.9	1302.3	1381.0
1483.2	30°	1469.3	1455.5	1428.3	1401.2	1366.3	1331.5	1302.1	1272.9	1249.7	1315.8
1394.4	32.5°	1379.0	1363.7	1337.6	1311.5	1283.6	1255.8	1238.5	1221.2	1210.9	1264.2
1312.8	35°	1294.4	1276.0	1250.2	1224.4	1203.2	1182.0	1177.2	1172.5	1176.7	1221.1
1238.2	37.5°	1215.5	1192.7	1166.9	1141.2	1126.0	1110.8	1116.0	1121.3	1136.9	1175.7
1165.5	40°	1139.3	1113.1	1088.3	1063.4	1052.4	1041.5	1053.4	1065.3	1089.3	1124.4
1095.8	42.5°	1067.6	1039.3	1015.7	992.1	983.1	974.2	990.0	1005.8	1036.0	1068.4
1034.4	45°	1005.0	975.7	953.3	931.0	923.4	915.9	931.2	946.6	975.8	1008.7
983.7	47.5°	954.8	925.9	904.0	882.1	875.1	868.0	880.9	893.8	919.0	961.4
939.7	50°	913.8	887.9	867.3	846.6	835.5	824.5	835.8	847.3	876.5	932.3
909.4	52.5°	885.2	861.1	842.2	823.3	806.7	790.1	801.3	812.6	853.5	917.6
888.7	55°	867.6	846.4	826.0	805.7	782.1	758.5	776.3	794.2	855.8	915.5
871.6	57.5°	850.6	829.7	805.8	781.9	756.5	731.1	757.1	783.2	858.1	910.7
847.3	60°	826.0	804.7	777.2	749.8	727.5	705.2	739.0	772.8	850.9	885.6
814.1	62.5°	791.4	768.7	736.6	704.6	690.5	676.3	718.5	760.7	833.1	837.4
768.4	65°	746.7	725.0	690.6	656.3	650.9	645.4	690.3	735.2	790.4	789.9
716.1	67.5°	695.6	675.0	643.2	611.5	613.3	615.0	652.3	689.7	720.7	722.1
658.2	70°	640.5	622.7	594.8	567.0	572.9	578.8	605.4	631.9	642.1	642.1
589.8	72.5°	573.8	557.8	535.9	513.9	522.5	531.2	549.4	567.6	567.5	561.0
511.6	75°	497.1	482.5	466.2	449.9	458.3	466.5	480.6	494.6	497.1	467.4
433.7	77.5°	421.2	408.7	395.5	382.2	390.6	399.0	410.3	421.5	422.8	373.8
348.2	80°	337.7	327.1	316.2	305.1	312.2	319.3	328.7	338.1	338.3	279.8
220.3	82.5°	224.0	227.7	228.6	229.5	234.5	239.5	244.1	248.7	245.9	196.0
112.8	85°	123.0	133.2	138.0	142.7	148.3	153.9	158.8	163.7	160.1	123.0
50.3	87.5°	58.1	65.9	66.1	66.3	67.3	68.4	70.4	72.3	67.7	52.3
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°
1713.6	0°	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6	1713.6
1739.8	2.5°	1754.3	1769.4	1784.5	1799.5	1814.6	1828.7	1842.8
1764.9	5°	1794.2	1825.5	1856.9	1888.0	1919.1	1950.4	1981.6
1789.2	7.5°	1830.0	1876.4	1922.7	1970.3	2018.0	2069.4	2121.0
1810.8	10°	1859.1	1915.4	1971.7	2034.6	2097.5	2162.7	2227.9
1820.1	12.5°	1874.7	1941.2	2007.6	2078.8	2150.1	2221.7	2293.3
1812.9	15°	1876.2	1952.7	2029.1	2106.5	2183.8	2258.4	2333.1
1781.7	17.5°	1857.8	1946.5	2035.3	2119.7	2204.0	2279.7	2355.4
1727.8	20°	1822.1	1929.7	2037.3	2130.0	2222.7	2301.4	2380.1
1664.6	22.5°	1778.2	1909.1	2039.9	2143.9	2247.9	2328.3	2408.7
1594.1	25°	1727.1	1888.7	2050.3	2169.2	2288.0	2366.7	2445.5
1529.6	27.5°	1678.1	1875.1	2072.0	2208.7	2345.2	2420.4	2495.5
1475.7	30°	1635.5	1868.7	2101.7	2259.7	2417.8	2490.3	2562.9
1429.2	32.5°	1594.1	1860.8	2127.4	2313.1	2498.8	2570.6	2642.5
1383.5	35°	1545.8	1845.9	2146.2	2373.8	2601.5	2670.3	2739.1
1329.7	37.5°	1483.6	1820.5	2157.4	2441.9	2726.4	2814.1	2901.9
1265.5	40°	1406.5	1785.4	2164.4	2528.3	2892.1	3020.0	3147.8
1194.7	42.5°	1320.9	1749.3	2177.7	2641.3	3104.9	3289.4	3474.0
1119.5	45°	1230.2	1715.7	2201.2	2790.1	3378.9	3627.8	3876.7
1059.9	47.5°	1158.5	1687.9	2217.3	2948.6	3679.8	4030.1	4380.4
1020.4	50°	1108.5	1657.7	2206.8	3095.6	3984.4	4512.5	5040.6
994.4	52.5°	1071.2	1606.6	2142.0	3191.1	4240.0	5019.2	5798.5
975.5	55°	1035.5	1521.9	2008.2	3170.0	4331.8	5468.5	6605.3
953.2	57.5°	995.6	1402.5	1809.3	3021.9	4234.6	5786.9	7339.2
919.0	60°	952.3	1247.4	1542.5	2746.3	3950.2	5866.5	7782.7
859.5	62.5°	881.7	1061.8	1242.0	2373.7	3505.4	5531.4	7557.5
800.3	65°	810.8	894.9	979.0	1993.5	3008.1	5057.4	7106.7
716.4	67.5°	710.5	734.4	758.3	1621.0	2483.8	4493.3	6502.7
615.1	70°	588.0	581.2	574.4	1276.3	1978.3	3877.7	5777.1
522.7	72.5°	484.3	463.7	443.1	975.8	1508.5	3210.4	4912.4
424.4	75°	381.4	362.7	344.0	708.2	1072.4	2445.4	3818.5
332.1	77.5°	290.3	277.6	264.9	479.9	694.9	1711.6	2728.3
244.5	80°	209.1	203.8	198.6	309.2	419.9	1102.7	1785.6
169.9	82.5°	143.9	142.8	141.9	190.2	238.6	638.2	1038.0
103.9	85°	84.8	85.4	85.8	101.7	117.6	287.1	456.7
44.5	87.5°	36.7	37.2	37.6	42.2	46.7	94.0	141.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)