

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: P949819

Luminaire Tested: **GALN-SB4B-950-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949819
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-SB4B-950-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15643 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

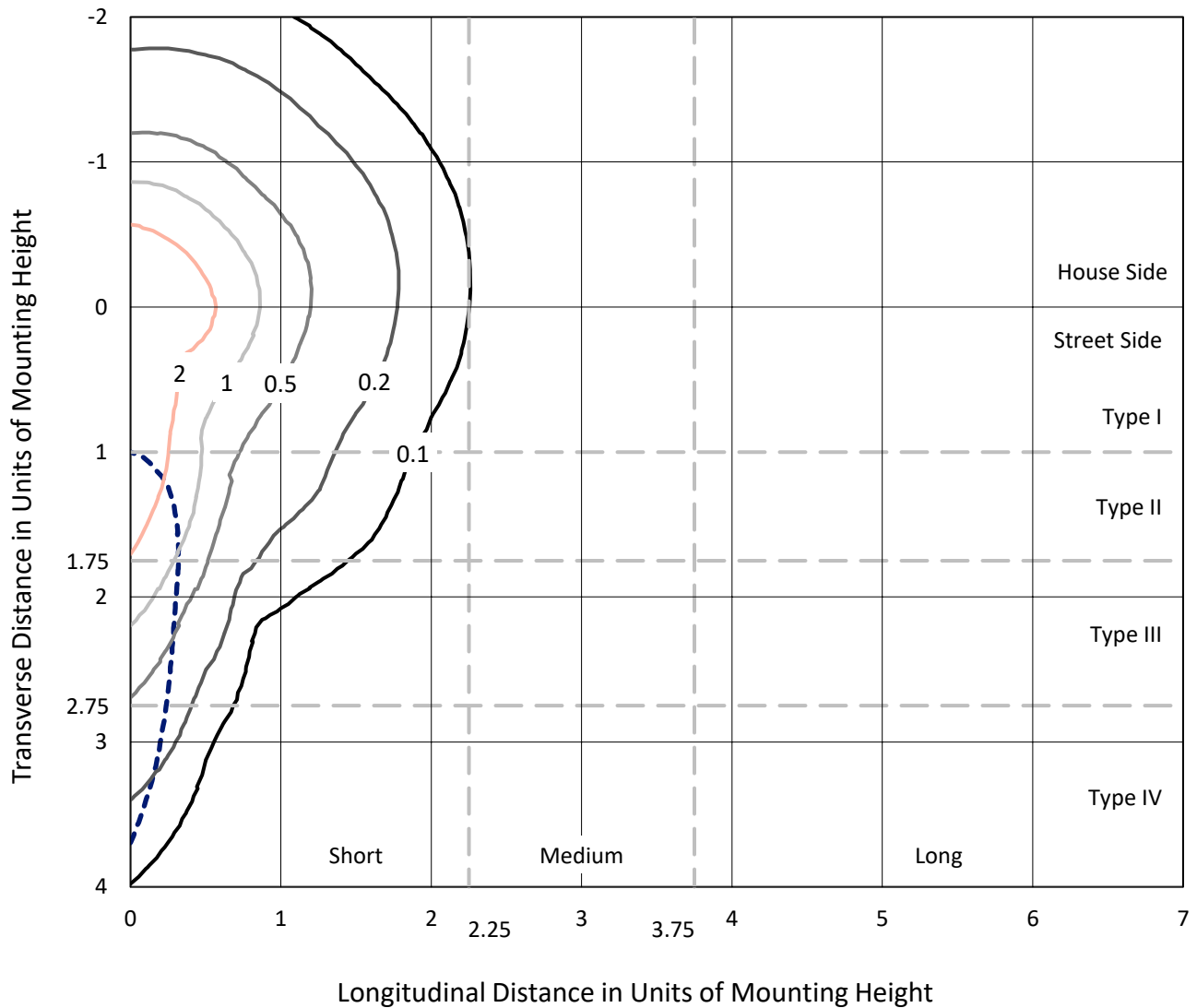
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

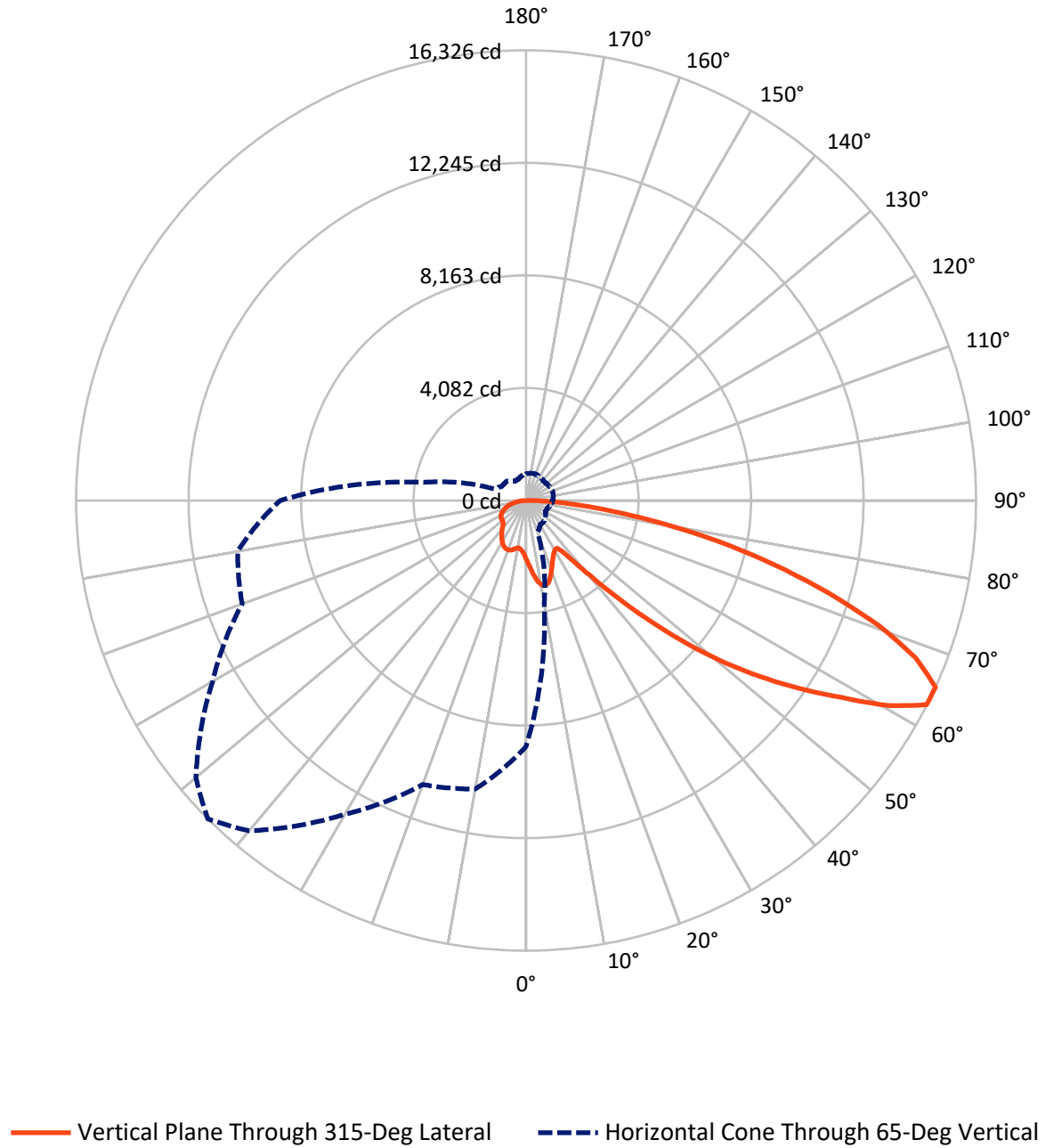
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3975.7	0.0	3975.7
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	11667.3	0.0	11667.3
	% Fixture	74.6	0.0	74.6
Total	Lumens	15643.0	0.0	15643.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.4
10°-20°	669.9	4.3
20°-30°	1034.7	6.6
30°-40°	1311.2	8.4
40°-50°	1977.6	12.6
50°-60°	3195.2	20.4
60°-70°	3983.3	25.5
70°-80°	2612.0	16.7
80°-90°	645.8	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°	15643.0	100.0
0°-180°	15643.0	100.0



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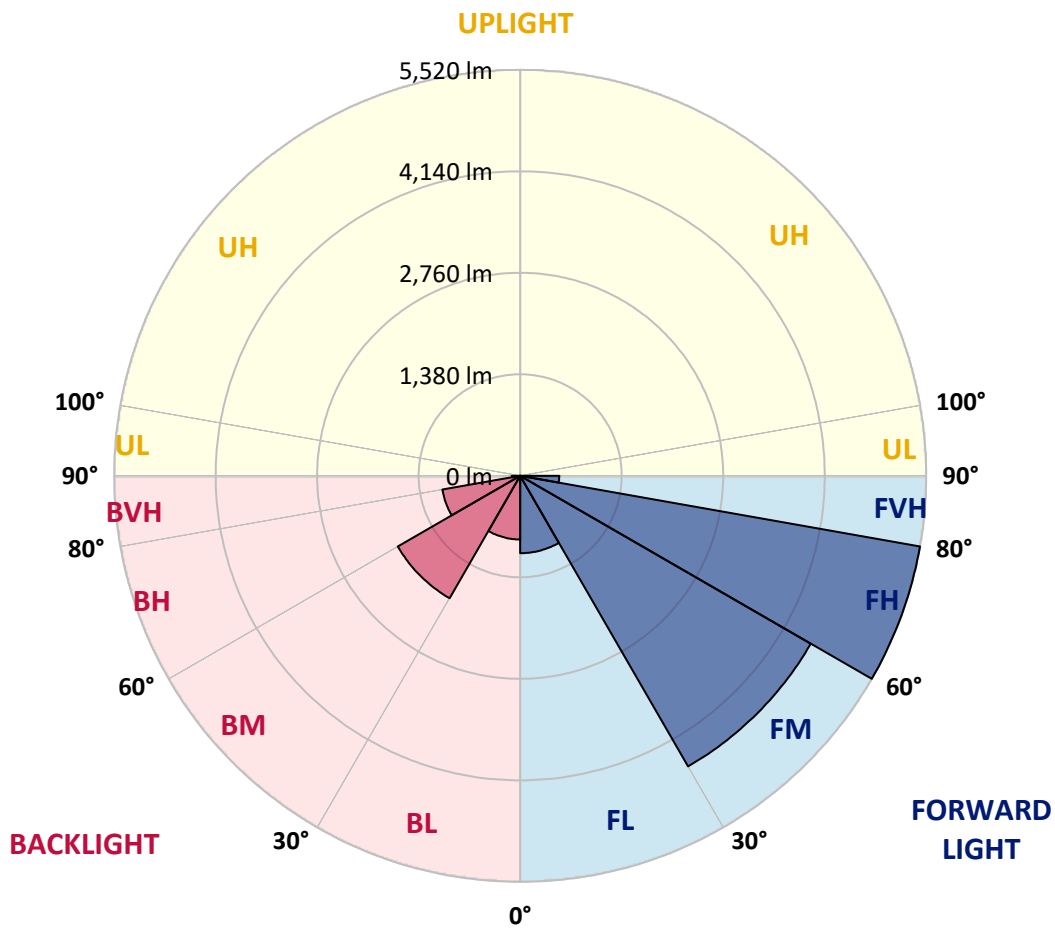
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.2	6.7			
FM (30°-60°)	4562.7	29.2			
FH (60°-80°)	5520.5	35.3			G3/7500
FVH (80°-90°)	532.0	3.4			G4/750
BL (0°-30°)	865.7	5.5	B2/1000		
BM (30°-60°)	1921.3	12.3	B2/2500		
BH (60°-80°)	1074.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	113.8	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°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
2.5°	2313.2	2295.5	2277.7	2258.8	2240.0	2221.0	2202.1	2183.9	2165.7	2148.2
5°	2487.4	2448.2	2409.0	2369.9	2330.8	2291.5	2252.2	2215.4	2178.7	2144.0
7.5°	2662.4	2597.7	2533.1	2473.3	2413.5	2355.3	2297.1	2245.9	2194.6	2147.3
10°	2796.5	2714.7	2632.9	2553.9	2475.0	2404.4	2333.6	2273.0	2212.3	2153.9
12.5°	2878.7	2788.8	2699.0	2609.5	2520.0	2436.6	2353.3	2284.7	2216.1	2154.8
15°	2928.6	2834.9	2741.2	2644.2	2547.1	2451.1	2355.1	2275.7	2196.3	2128.3
17.5°	2956.7	2861.7	2766.6	2660.7	2554.8	2443.4	2332.0	2236.5	2141.0	2061.1
20°	2987.6	2888.9	2790.1	2673.7	2557.3	2422.3	2287.2	2168.9	2050.5	1957.5
22.5°	3023.5	2922.7	2821.7	2691.2	2560.6	2396.4	2232.1	2089.6	1947.0	1841.1
25°	3069.7	2970.9	2872.1	2722.9	2573.7	2370.8	2168.0	2001.0	1834.1	1725.5
27.5°	3132.5	3038.2	2943.9	2772.4	2600.9	2353.7	2106.5	1920.0	1733.5	1634.7
30°	3217.1	3126.0	3034.9	2836.6	2638.2	2345.7	2053.0	1852.3	1651.7	1568.7
32.5°	3317.0	3226.7	3136.6	2903.5	2670.4	2335.8	2001.0	1794.0	1586.9	1520.0
35°	3438.3	3352.0	3265.5	2979.8	2694.0	2317.1	1940.4	1736.6	1532.8	1477.1
37.5°	3642.6	3532.5	3422.4	3065.2	2708.0	2285.2	1862.3	1669.1	1475.9	1427.2
40°	3951.3	3790.8	3630.4	3173.7	2716.9	2241.2	1765.6	1588.5	1411.5	1367.3
42.5°	4360.7	4129.1	3897.5	3315.6	2733.6	2195.8	1658.1	1499.6	1341.1	1300.5
45°	4866.3	4553.8	4241.4	3502.3	2763.1	2153.6	1544.2	1405.2	1266.2	1224.9
47.5°	5498.5	5058.8	4619.1	3701.2	2783.3	2118.8	1454.2	1330.5	1206.8	1153.5
50°	6327.3	5664.4	5001.4	3885.8	2770.1	2080.8	1391.5	1280.9	1170.3	1100.3
52.5°	7278.6	6300.4	5322.3	4005.6	2688.8	2016.7	1344.6	1248.2	1151.9	1071.4
55°	8291.4	6864.4	5437.5	3979.2	2520.8	1910.4	1299.9	1224.5	1149.2	1074.3
57.5°	9212.5	7264.0	5315.5	3793.3	2271.1	1760.5	1249.7	1196.4	1143.2	1077.2
60°	9769.3	7363.9	4958.5	3447.4	1936.3	1565.8	1195.4	1153.5	1111.7	1068.1
62.5°	9486.6	6943.4	4400.2	2979.6	1559.1	1332.9	1106.7	1078.9	1051.2	1045.8
65°	8920.7	6348.3	3775.9	2502.3	1228.9	1123.3	1017.7	1004.6	991.5	992.2
67.5°	8162.6	5640.2	3117.8	2034.8	951.9	921.9	891.9	899.2	906.5	904.7
70°	7251.7	4867.5	2483.3	1602.1	721.0	729.6	738.1	772.1	806.0	806.0
72.5°	6166.3	4029.9	1893.5	1224.8	556.2	582.0	607.9	656.1	704.2	712.3
75°	4793.2	3069.7	1346.1	889.0	431.9	455.3	478.7	532.7	586.7	624.0
77.5°	3424.7	2148.5	872.3	602.4	332.5	348.4	364.4	416.8	469.3	530.7
80°	2241.4	1384.2	527.0	388.1	249.3	255.9	262.5	306.9	351.2	424.7
82.5°	1302.9	801.2	299.5	238.7	178.1	179.3	180.6	213.3	246.0	308.7
85°	573.3	360.4	147.6	127.6	107.7	107.1	106.5	130.4	154.4	201.0
87.5°	177.5	118.0	58.6	52.9	47.2	46.6	46.1	55.8	65.6	85.0
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):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
2151.0	0°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
2128.6	2.5°	2112.7	2097.0	2082.7	2068.5	2056.0	2043.6	2031.0	2018.6	2008.9	1999.2
2109.8	5°	2079.9	2049.9	2024.8	1999.8	1977.7	1955.6	1935.5	1915.4	1900.0	1884.4
2103.0	7.5°	2063.2	2023.5	1990.5	1957.5	1929.7	1901.8	1877.2	1852.7	1834.3	1815.9
2106.3	10°	2064.4	2022.4	1989.4	1956.4	1926.5	1896.4	1868.8	1841.1	1819.1	1797.1
2110.4	12.5°	2076.1	2041.9	2020.0	1998.2	1974.6	1951.1	1922.5	1893.9	1865.9	1837.8
2092.9	15°	2076.4	2060.1	2063.1	2066.0	2059.9	2053.8	2029.0	2004.1	1964.2	1924.2
2039.2	17.5°	2045.2	2051.2	2087.2	2123.1	2142.3	2161.4	2141.3	2121.3	2068.4	2015.5
1951.7	20°	1979.8	2007.8	2070.3	2132.9	2172.9	2213.0	2203.7	2194.4	2133.9	2073.5
1852.4	22.5°	1893.9	1935.4	2006.8	2078.2	2130.3	2182.4	2188.0	2193.6	2135.8	2078.0
1756.1	25°	1804.0	1851.8	1916.0	1980.2	2031.4	2082.7	2101.9	2120.9	2073.5	2026.2
1671.9	27.5°	1718.1	1764.3	1817.1	1869.7	1910.8	1952.0	1973.3	1994.6	1960.9	1927.2
1597.9	30°	1634.5	1671.3	1715.1	1758.8	1792.9	1827.1	1844.4	1861.7	1836.1	1810.3
1533.0	32.5°	1554.7	1576.4	1611.3	1646.3	1679.0	1711.8	1731.0	1750.3	1726.7	1703.0
1471.7	35°	1477.7	1483.7	1510.4	1536.9	1569.3	1601.7	1624.8	1648.0	1631.1	1614.4
1407.5	37.5°	1400.9	1394.3	1413.5	1432.5	1464.8	1497.1	1525.7	1554.3	1546.5	1538.7
1337.2	40°	1322.2	1307.3	1321.1	1334.9	1366.1	1397.3	1430.1	1463.1	1465.0	1466.8
1262.5	42.5°	1242.7	1222.9	1234.1	1245.4	1274.9	1304.6	1340.1	1375.6	1385.1	1394.5
1188.2	45°	1168.9	1149.6	1159.1	1168.6	1196.7	1224.8	1261.6	1298.4	1312.0	1325.6
1121.9	47.5°	1105.7	1089.6	1098.5	1107.3	1134.8	1162.2	1198.5	1234.8	1250.5	1266.2
1063.6	50°	1049.2	1034.9	1048.8	1062.7	1088.6	1114.5	1147.0	1179.5	1199.7	1219.8
1020.1	52.5°	1005.9	991.7	1012.6	1033.4	1057.2	1080.9	1111.2	1141.6	1165.4	1189.3
996.9	55°	974.5	952.1	981.8	1011.3	1036.9	1062.5	1089.1	1115.6	1140.8	1166.2
983.1	57.5°	950.4	917.7	949.6	981.4	1011.5	1041.5	1067.8	1094.1	1119.6	1145.0
970.0	60°	927.7	885.3	913.2	941.1	975.6	1010.2	1036.8	1063.6	1089.1	1114.7
954.8	62.5°	901.9	848.9	866.7	884.4	924.6	964.9	993.4	1021.9	1045.3	1068.8
922.8	65°	866.5	810.2	817.0	823.8	866.9	910.0	937.3	964.5	985.1	1005.8
865.7	67.5°	818.8	771.9	769.8	767.6	807.4	847.3	873.1	898.9	916.7	934.5
793.2	70°	759.9	726.5	719.1	711.7	746.7	781.7	804.0	826.2	842.3	858.4
712.5	72.5°	689.6	666.8	655.9	645.1	672.6	700.1	720.3	740.4	756.2	771.9
620.9	75°	603.3	585.6	575.2	564.8	585.2	605.7	623.9	642.2	656.5	670.9
529.1	77.5°	515.0	500.9	490.3	479.7	496.4	513.0	528.7	544.4	559.5	574.5
424.4	80°	412.6	400.7	391.9	383.0	396.9	410.6	423.9	437.1	448.5	459.9
312.2	82.5°	306.4	300.6	294.3	288.1	286.9	285.8	281.1	276.5	300.9	325.4
205.5	85°	199.3	193.1	186.1	179.1	173.2	167.1	154.4	141.6	164.4	187.4
90.8	87.5°	88.3	85.8	84.5	83.2	83.0	82.7	73.0	63.1	72.7	82.4
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°
2151.0	0°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
1991.3	2.5°	1983.5	1977.4	1971.3	1965.7	1960.0	1952.9	1960.0	1965.7	1971.3	1977.4
1873.6	5°	1862.8	1855.1	1847.5	1841.6	1835.7	1830.0	1835.7	1841.6	1847.5	1855.1
1803.0	7.5°	1790.2	1781.3	1772.6	1767.3	1762.1	1758.1	1762.1	1767.3	1772.6	1781.3
1782.7	10°	1768.2	1759.9	1751.5	1747.1	1742.6	1740.8	1742.6	1747.1	1751.5	1759.9
1819.2	12.5°	1800.7	1791.3	1782.1	1778.3	1774.5	1773.8	1774.5	1778.3	1782.1	1791.3
1896.0	15°	1867.8	1854.8	1841.9	1837.0	1832.0	1831.6	1832.0	1837.0	1841.9	1854.8
1973.9	17.5°	1932.3	1913.2	1893.9	1887.7	1881.3	1880.3	1881.3	1887.7	1893.9	1913.2
2022.4	20°	1971.5	1947.0	1922.4	1914.6	1906.7	1904.2	1906.7	1914.6	1922.4	1947.0
2025.5	22.5°	1972.9	1947.1	1921.2	1912.5	1903.8	1900.1	1903.8	1912.5	1921.2	1947.1
1979.5	25°	1933.0	1910.5	1888.2	1880.0	1871.9	1867.1	1871.9	1880.0	1888.2	1910.5
1891.0	27.5°	1854.7	1839.7	1824.6	1820.9	1817.2	1815.9	1817.2	1820.9	1824.6	1839.7
1784.4	30°	1758.3	1750.6	1742.9	1742.9	1742.9	1744.1	1742.9	1742.9	1742.9	1750.6
1682.3	32.5°	1661.6	1656.5	1651.5	1652.2	1652.9	1654.1	1652.9	1652.2	1651.5	1656.5
1595.2	35°	1576.1	1568.5	1560.9	1559.2	1557.6	1556.7	1557.6	1559.2	1560.9	1568.5
1521.2	37.5°	1503.5	1489.6	1475.7	1468.3	1461.0	1456.9	1461.0	1468.3	1475.7	1489.6
1451.8	40°	1436.9	1416.6	1396.4	1382.7	1369.2	1361.1	1369.2	1382.7	1396.4	1416.6
1381.9	42.5°	1369.4	1344.2	1319.0	1299.1	1279.2	1266.2	1279.2	1299.1	1319.0	1344.2
1314.2	45°	1302.9	1274.1	1245.4	1222.0	1198.7	1183.7	1198.7	1222.0	1245.4	1274.1
1258.3	47.5°	1250.3	1224.8	1199.2	1177.5	1156.0	1141.6	1156.0	1177.5	1199.2	1224.8
1219.3	50°	1219.0	1198.5	1178.0	1158.1	1138.1	1124.2	1138.1	1158.1	1178.0	1198.5
1193.6	52.5°	1197.9	1181.2	1164.5	1146.6	1128.8	1116.0	1128.8	1146.6	1164.5	1181.2
1172.1	55°	1178.0	1163.5	1149.0	1133.3	1117.6	1106.1	1117.6	1133.3	1149.0	1163.5
1151.0	57.5°	1157.1	1142.4	1127.7	1112.2	1096.6	1084.6	1096.6	1112.2	1127.7	1142.4
1121.3	60°	1127.9	1113.6	1099.3	1083.3	1067.3	1054.9	1067.3	1083.3	1099.3	1113.6
1075.1	62.5°	1081.5	1068.5	1055.5	1038.7	1021.9	1007.0	1021.9	1038.7	1055.5	1068.5
1012.3	65°	1018.7	1006.3	993.8	977.5	961.2	948.4	961.2	977.5	993.8	1006.3
940.9	67.5°	947.2	935.7	924.3	909.1	893.9	882.4	893.9	909.1	924.3	935.7
864.5	70°	870.7	861.3	852.0	837.5	822.9	809.7	822.9	837.5	852.0	861.3
779.2	72.5°	786.5	778.7	770.9	757.1	743.3	730.5	743.3	757.1	770.9	778.7
678.5	75°	686.1	682.3	678.5	666.9	655.2	643.0	655.2	666.9	678.5	682.3
581.6	77.5°	588.7	583.4	578.0	566.2	554.5	544.8	554.5	566.2	578.0	583.4
469.3	80°	478.7	476.4	474.2	458.4	442.6	424.3	442.6	458.4	474.2	476.4
341.4	82.5°	357.4	356.4	355.3	342.1	328.7	317.0	328.7	342.1	355.3	356.4
207.2	85°	227.0	225.3	223.7	213.3	202.9	192.3	202.9	213.3	223.7	225.3
90.4	87.5°	98.4	96.4	94.3	89.0	83.5	78.4	83.5	89.0	94.3	96.4
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
2151.0	0°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
1983.5	2.5°	1991.3	1999.2	2008.9	2018.6	2031.0	2043.6	2056.0	2068.5	2082.7	2097.0
1862.8	5°	1873.6	1884.4	1900.0	1915.4	1935.5	1955.6	1977.7	1999.8	2024.8	2049.9
1790.2	7.5°	1803.0	1815.9	1834.3	1852.7	1877.2	1901.8	1929.7	1957.5	1990.5	2023.5
1768.2	10°	1782.7	1797.1	1819.1	1841.1	1868.8	1896.4	1926.5	1956.4	1989.4	2022.4
1800.7	12.5°	1819.2	1837.8	1865.9	1893.9	1922.5	1951.1	1974.6	1998.2	2020.0	2041.9
1867.8	15°	1896.0	1924.2	1964.2	2004.1	2029.0	2053.8	2059.9	2066.0	2063.1	2060.1
1932.3	17.5°	1973.9	2015.5	2068.4	2121.3	2141.3	2161.4	2142.3	2123.1	2087.2	2051.2
1971.5	20°	2022.4	2073.5	2133.9	2194.4	2203.7	2213.0	2172.9	2132.9	2070.3	2007.8
1972.9	22.5°	2025.5	2078.0	2135.8	2193.6	2188.0	2182.4	2130.3	2078.2	2006.8	1935.4
1933.0	25°	1979.5	2026.2	2073.5	2120.9	2101.9	2082.7	2031.4	1980.2	1916.0	1851.8
1854.7	27.5°	1891.0	1927.2	1960.9	1994.6	1973.3	1952.0	1910.8	1869.7	1817.1	1764.3
1758.3	30°	1784.4	1810.3	1836.1	1861.7	1844.4	1827.1	1792.9	1758.8	1715.1	1671.3
1661.6	32.5°	1682.3	1703.0	1726.7	1750.3	1731.0	1711.8	1679.0	1646.3	1611.3	1576.4
1576.1	35°	1595.2	1614.4	1631.1	1648.0	1624.8	1601.7	1569.3	1536.9	1510.4	1483.7
1503.5	37.5°	1521.2	1538.7	1546.5	1554.3	1525.7	1497.1	1464.8	1432.5	1413.5	1394.3
1436.9	40°	1451.8	1466.8	1465.0	1463.1	1430.1	1397.3	1366.1	1334.9	1321.1	1307.3
1369.4	42.5°	1381.9	1394.5	1385.1	1375.6	1340.1	1304.6	1274.9	1245.4	1234.1	1222.9
1302.9	45°	1314.2	1325.6	1312.0	1298.4	1261.6	1224.8	1196.7	1168.6	1159.1	1149.6
1250.3	47.5°	1258.3	1266.2	1250.5	1234.8	1198.5	1162.2	1134.8	1107.3	1098.5	1089.6
1219.0	50°	1219.3	1219.8	1199.7	1179.5	1147.0	1114.5	1088.6	1062.7	1048.8	1034.9
1197.9	52.5°	1193.6	1189.3	1165.4	1141.6	1111.2	1080.9	1057.2	1033.4	1012.6	991.7
1178.0	55°	1172.1	1166.2	1140.8	1115.6	1089.1	1062.5	1036.9	1011.3	981.8	952.1
1157.1	57.5°	1151.0	1145.0	1119.6	1094.1	1067.8	1041.5	1011.5	981.4	949.6	917.7
1127.9	60°	1121.3	1114.7	1089.1	1063.6	1036.8	1010.2	975.6	941.1	913.2	885.3
1081.5	62.5°	1075.1	1068.8	1045.3	1021.9	993.4	964.9	924.6	884.4	866.7	848.9
1018.7	65°	1012.3	1005.8	985.1	964.5	937.3	910.0	866.9	823.8	817.0	810.2
947.2	67.5°	940.9	934.5	916.7	898.9	873.1	847.3	807.4	767.6	769.8	771.9
870.7	70°	864.5	858.4	842.3	826.2	804.0	781.7	746.7	711.7	719.1	726.5
786.5	72.5°	779.2	771.9	756.2	740.4	720.3	700.1	672.6	645.1	655.9	666.8
686.1	75°	678.5	670.9	656.5	642.2	623.9	605.7	585.2	564.8	575.2	585.6
588.7	77.5°	581.6	574.5	559.5	544.4	528.7	513.0	496.4	479.7	490.3	500.9
478.7	80°	469.3	459.9	448.5	437.1	423.9	410.6	396.9	383.0	391.9	400.7
357.4	82.5°	341.4	325.4	300.9	276.5	281.1	285.8	286.9	288.1	294.3	300.6
227.0	85°	207.2	187.4	164.4	141.6	154.4	167.1	173.2	179.1	186.1	193.1
98.4	87.5°	90.4	82.4	72.7	63.1	73.0	82.7	83.0	83.2	84.5	85.8
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°
2151.0	0°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
2112.7	2.5°	2128.6	2148.2	2165.7	2183.9	2202.1	2221.0	2240.0	2258.8	2277.7	2295.5
2079.9	5°	2109.8	2144.0	2178.7	2215.4	2252.2	2291.5	2330.8	2369.9	2409.0	2448.2
2063.2	7.5°	2103.0	2147.3	2194.6	2245.9	2297.1	2355.3	2413.5	2473.3	2533.1	2597.7
2064.4	10°	2106.3	2153.9	2212.3	2273.0	2333.6	2404.4	2475.0	2553.9	2632.9	2714.7
2076.1	12.5°	2110.4	2154.8	2216.1	2284.7	2353.3	2436.6	2520.0	2609.5	2699.0	2788.8
2076.4	15°	2092.9	2128.3	2196.3	2275.7	2355.1	2451.1	2547.1	2644.2	2741.2	2834.9
2045.2	17.5°	2039.2	2061.1	2141.0	2236.5	2332.0	2443.4	2554.8	2660.7	2766.6	2861.7
1979.8	20°	1951.7	1957.5	2050.5	2168.9	2287.2	2422.3	2557.3	2673.7	2790.1	2888.9
1893.9	22.5°	1852.4	1841.1	1947.0	2089.6	2232.1	2396.4	2560.6	2691.2	2821.7	2922.7
1804.0	25°	1756.1	1725.5	1834.1	2001.0	2168.0	2370.8	2573.7	2722.9	2872.1	2970.9
1718.1	27.5°	1671.9	1634.7	1733.5	1920.0	2106.5	2353.7	2600.9	2772.4	2943.9	3038.2
1634.5	30°	1597.9	1568.7	1651.7	1852.3	2053.0	2345.7	2638.2	2836.6	3034.9	3126.0
1554.7	32.5°	1533.0	1520.0	1586.9	1794.0	2001.0	2335.8	2670.4	2903.5	3136.6	3226.7
1477.7	35°	1471.7	1477.1	1532.8	1736.6	1940.4	2317.1	2694.0	2979.8	3265.5	3352.0
1400.9	37.5°	1407.5	1427.2	1475.9	1669.1	1862.3	2285.2	2708.0	3065.2	3422.4	3532.5
1322.2	40°	1337.2	1367.3	1411.5	1588.5	1765.6	2241.2	2716.9	3173.7	3630.4	3790.8
1242.7	42.5°	1262.5	1300.5	1341.1	1499.6	1658.1	2195.8	2733.6	3315.6	3897.5	4129.1
1168.9	45°	1188.2	1224.9	1266.2	1405.2	1544.2	2153.6	2763.1	3502.3	4241.4	4553.8
1105.7	47.5°	1121.9	1153.5	1206.8	1330.5	1454.2	2118.8	2783.3	3701.2	4619.1	5058.8
1049.2	50°	1063.6	1100.3	1170.3	1280.9	1391.5	2080.8	2770.1	3885.8	5001.4	5664.4
1005.9	52.5°	1020.1	1071.4	1151.9	1248.2	1344.6	2016.7	2688.8	4005.6	5322.3	6300.4
974.5	55°	996.9	1074.3	1149.2	1224.5	1299.9	1910.4	2520.8	3979.2	5437.5	6864.4
950.4	57.5°	983.1	1077.2	1143.2	1196.4	1249.7	1760.5	2271.1	3793.3	5315.5	7264.0
927.7	60°	970.0	1068.1	1111.7	1153.5	1195.4	1565.8	1936.3	3447.4	4958.5	7363.9
901.9	62.5°	954.8	1045.8	1051.2	1078.9	1106.7	1332.9	1559.1	2979.6	4400.2	6943.4
866.5	65°	922.8	992.2	991.5	1004.6	1017.7	1123.3	1228.9	2502.3	3775.9	6348.3
818.8	67.5°	865.7	904.7	906.5	899.2	891.9	921.9	951.9	2034.8	3117.8	5640.2
759.9	70°	793.2	806.0	806.0	772.1	738.1	729.6	721.0	1602.1	2483.3	4867.5
689.6	72.5°	712.5	712.3	704.2	656.1	607.9	582.0	556.2	1224.8	1893.5	4029.9
603.3	75°	620.9	624.0	586.7	532.7	478.7	455.3	431.9	889.0	1346.1	3069.7
515.0	77.5°	529.1	530.7	469.3	416.8	364.4	348.4	332.5	602.4	872.3	2148.5
412.6	80°	424.4	424.7	351.2	306.9	262.5	255.9	249.3	388.1	527.0	1384.2
306.4	82.5°	312.2	308.7	246.0	213.3	180.6	179.3	178.1	238.7	299.5	801.2
199.3	85°	205.5	201.0	154.4	130.4	106.5	107.1	107.7	127.6	147.6	360.4
88.3	87.5°	90.8	85.0	65.6	55.8	46.1	46.6	47.2	52.9	58.6	118.0
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°
2151.0	0°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
2313.2	2.5°	2322.0	2330.8	2343.3	2355.8	2363.2	2370.6	2374.3	2378.0	2376.4	2378.0
2487.4	5°	2518.0	2548.7	2579.1	2609.6	2626.1	2642.6	2652.6	2662.6	2670.2	2662.6
2662.4	7.5°	2712.3	2762.0	2806.8	2851.7	2878.7	2905.6	2920.3	2934.8	2941.8	2934.8
2796.5	10°	2855.5	2914.4	2967.0	3019.6	3051.4	3083.1	3097.3	3111.4	3116.8	3111.4
2878.7	12.5°	2942.5	3006.3	3053.9	3101.3	3124.4	3147.5	3155.3	3163.0	3163.8	3163.0
2928.6	15°	2983.7	3038.8	3068.6	3098.5	3099.3	3100.1	3091.9	3083.6	3073.9	3083.6
2956.7	17.5°	2993.9	3031.1	3031.7	3032.2	2998.8	2965.3	2934.7	2904.0	2882.4	2904.0
2987.6	20°	3000.6	3013.6	2974.4	2935.2	2861.4	2787.6	2733.9	2680.1	2647.1	2680.1
3023.5	22.5°	3006.5	2989.5	2908.3	2827.1	2718.5	2610.0	2542.8	2475.6	2439.1	2475.6
3069.7	25°	3016.1	2962.4	2839.1	2715.8	2584.0	2452.2	2381.5	2311.0	2276.5	2311.0
3132.5	27.5°	3036.6	2940.6	2777.2	2613.9	2467.8	2321.7	2252.2	2182.8	2150.2	2182.8
3217.1	30°	3074.0	2931.1	2730.0	2528.9	2376.7	2224.5	2160.0	2095.6	2065.2	2095.6
3317.0	32.5°	3121.1	2925.3	2697.8	2470.3	2327.3	2184.2	2133.6	2082.9	2061.1	2082.9
3438.3	35°	3198.6	2959.0	2721.9	2484.9	2385.5	2286.3	2274.4	2262.6	2260.8	2262.6
3642.6	37.5°	3360.6	3078.7	2863.2	2647.8	2641.3	2634.9	2688.9	2742.9	2770.9	2742.9
3951.3	40°	3644.6	3338.0	3177.8	3017.6	3130.7	3243.7	3375.0	3506.2	3571.6	3506.2
4360.7	42.5°	4056.4	3752.2	3659.9	3567.6	3814.3	4060.9	4299.6	4538.3	4678.5	4538.3
4866.3	45°	4593.0	4319.6	4278.9	4238.1	4633.3	5028.5	5420.7	5813.0	6051.2	5813.0
5498.5	47.5°	5232.7	4966.7	4958.5	4950.2	5520.3	6090.1	6664.4	7238.5	7575.7	7238.5
6327.3	50°	5998.8	5670.5	5671.9	5673.3	6407.9	7142.5	7900.5	8658.5	9116.8	8658.5
7278.6	52.5°	6880.9	6483.3	6443.1	6402.8	7280.3	8157.8	9095.6	10033.4	10582.7	10033.4
8291.4	55°	7898.5	7505.6	7348.8	7192.1	8168.7	9145.3	10263.3	11381.3	12034.6	11381.3
9212.5	57.5°	8998.6	8784.5	8470.1	8155.8	9142.0	10128.1	11394.4	12660.7	13470.9	12660.7
9769.3	60°	10101.6	10434.0	10043.6	9653.1	10586.4	11519.6	12875.4	14231.2	15106.9	14231.2
9486.6	62.5°	10394.6	11302.7	11258.7	11214.6	12069.5	12924.4	14214.4	15504.3	16313.6	15504.3
8920.7	65°	9773.0	10625.2	10793.9	10962.4	12048.8	13135.3	14386.2	15636.9	16326.0	15636.9
8162.6	67.5°	8973.2	9783.7	9862.8	9941.8	11073.8	12205.7	13461.9	14718.1	15257.9	14718.1
7251.7	70°	8133.4	9015.1	9050.4	9085.8	10098.1	11110.3	12191.4	13272.4	13572.4	13272.4
6166.3	72.5°	7178.0	8189.8	8215.3	8240.6	9032.6	9824.6	10634.2	11443.8	11474.2	11443.8
4793.2	75°	5840.3	6887.5	6981.5	7075.5	7691.7	8307.9	8877.8	9447.8	9295.1	9447.8
3424.7	77.5°	4402.1	5379.7	5514.2	5648.8	6117.2	6585.6	6989.8	7394.1	7131.6	7394.1
2241.4	80°	3063.8	3886.1	4053.3	4220.5	4574.3	4927.9	5140.2	5352.4	4930.2	5352.4
1302.9	82.5°	1865.1	2427.4	2614.2	2801.1	3044.6	3288.1	3376.6	3465.1	3133.3	3465.1
573.3	85°	871.6	1170.0	1328.9	1487.8	1687.9	1887.9	1938.2	1988.4	1722.7	1988.4
177.5	87.5°	277.8	378.0	466.7	555.3	655.4	755.4	759.7	763.9	641.4	763.9
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°
2151.0	0°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
2374.3	2.5°	2370.6	2363.2	2355.8	2343.3	2330.8	2322.0	2313.2
2652.6	5°	2642.6	2626.1	2609.6	2579.1	2548.7	2518.0	2487.4
2920.3	7.5°	2905.6	2878.7	2851.7	2806.8	2762.0	2712.3	2662.4
3097.3	10°	3083.1	3051.4	3019.6	2967.0	2914.4	2855.5	2796.5
3155.3	12.5°	3147.5	3124.4	3101.3	3053.9	3006.3	2942.5	2878.7
3091.9	15°	3100.1	3099.3	3098.5	3068.6	3038.8	2983.7	2928.6
2934.7	17.5°	2965.3	2998.8	3032.2	3031.7	3031.1	2993.9	2956.7
2733.9	20°	2787.6	2861.4	2935.2	2974.4	3013.6	3000.6	2987.6
2542.8	22.5°	2610.0	2718.5	2827.1	2908.3	2989.5	3006.5	3023.5
2381.5	25°	2452.2	2584.0	2715.8	2839.1	2962.4	3016.1	3069.7
2252.2	27.5°	2321.7	2467.8	2613.9	2777.2	2940.6	3036.6	3132.5
2160.0	30°	2224.5	2376.7	2528.9	2730.0	2931.1	3074.0	3217.1
2133.6	32.5°	2184.2	2327.3	2470.3	2697.8	2925.3	3121.1	3317.0
2274.4	35°	2286.3	2385.5	2484.9	2721.9	2959.0	3198.6	3438.3
2688.9	37.5°	2634.9	2641.3	2647.8	2863.2	3078.7	3360.6	3642.6
3375.0	40°	3243.7	3130.7	3017.6	3177.8	3338.0	3644.6	3951.3
4299.6	42.5°	4060.9	3814.3	3567.6	3659.9	3752.2	4056.4	4360.7
5420.7	45°	5028.5	4633.3	4238.1	4278.9	4319.6	4593.0	4866.3
6664.4	47.5°	6090.1	5520.3	4950.2	4958.5	4966.7	5232.7	5498.5
7900.5	50°	7142.5	6407.9	5673.3	5671.9	5670.5	5998.8	6327.3
9095.6	52.5°	8157.8	7280.3	6402.8	6443.1	6483.3	6880.9	7278.6
10263.3	55°	9145.3	8168.7	7192.1	7348.8	7505.6	7898.5	8291.4
11394.4	57.5°	10128.1	9142.0	8155.8	8470.1	8784.5	8998.6	9212.5
12875.4	60°	11519.6	10586.4	9653.1	10043.6	10434.0	10101.6	9769.3
14214.4	62.5°	12924.4	12069.5	11214.6	11258.7	11302.7	10394.6	9486.6
14386.2	65°	13135.3	12048.8	10962.4	10793.9	10625.2	9773.0	8920.7
13461.9	67.5°	12205.7	11073.8	9941.8	9862.8	9783.7	8973.2	8162.6
12191.4	70°	11110.3	10098.1	9085.8	9050.4	9015.1	8133.4	7251.7
10634.2	72.5°	9824.6	9032.6	8240.6	8215.3	8189.8	7178.0	6166.3
8877.8	75°	8307.9	7691.7	7075.5	6981.5	6887.5	5840.3	4793.2
6989.8	77.5°	6585.6	6117.2	5648.8	5514.2	5379.7	4402.1	3424.7
5140.2	80°	4927.9	4574.3	4220.5	4053.3	3886.1	3063.8	2241.4
3376.6	82.5°	3288.1	3044.6	2801.1	2614.2	2427.4	1865.1	1302.9
1938.2	85°	1887.9	1687.9	1487.8	1328.9	1170.0	871.6	573.3
759.7	87.5°	755.4	655.4	555.3	466.7	378.0	277.8	177.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)