

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: P949294

Luminaire Tested: **GALN-SB4A-830-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949294
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-830-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16096 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

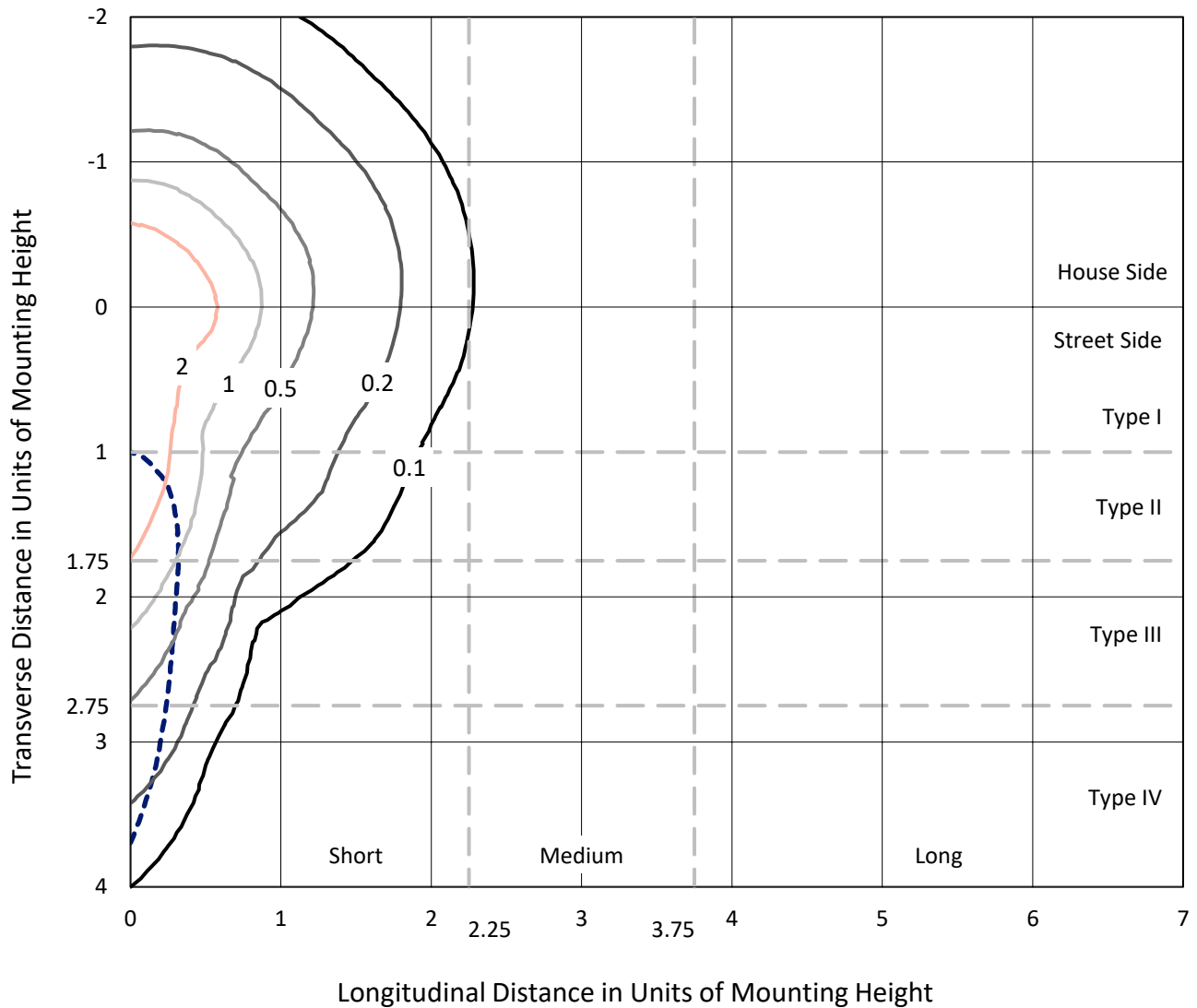
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

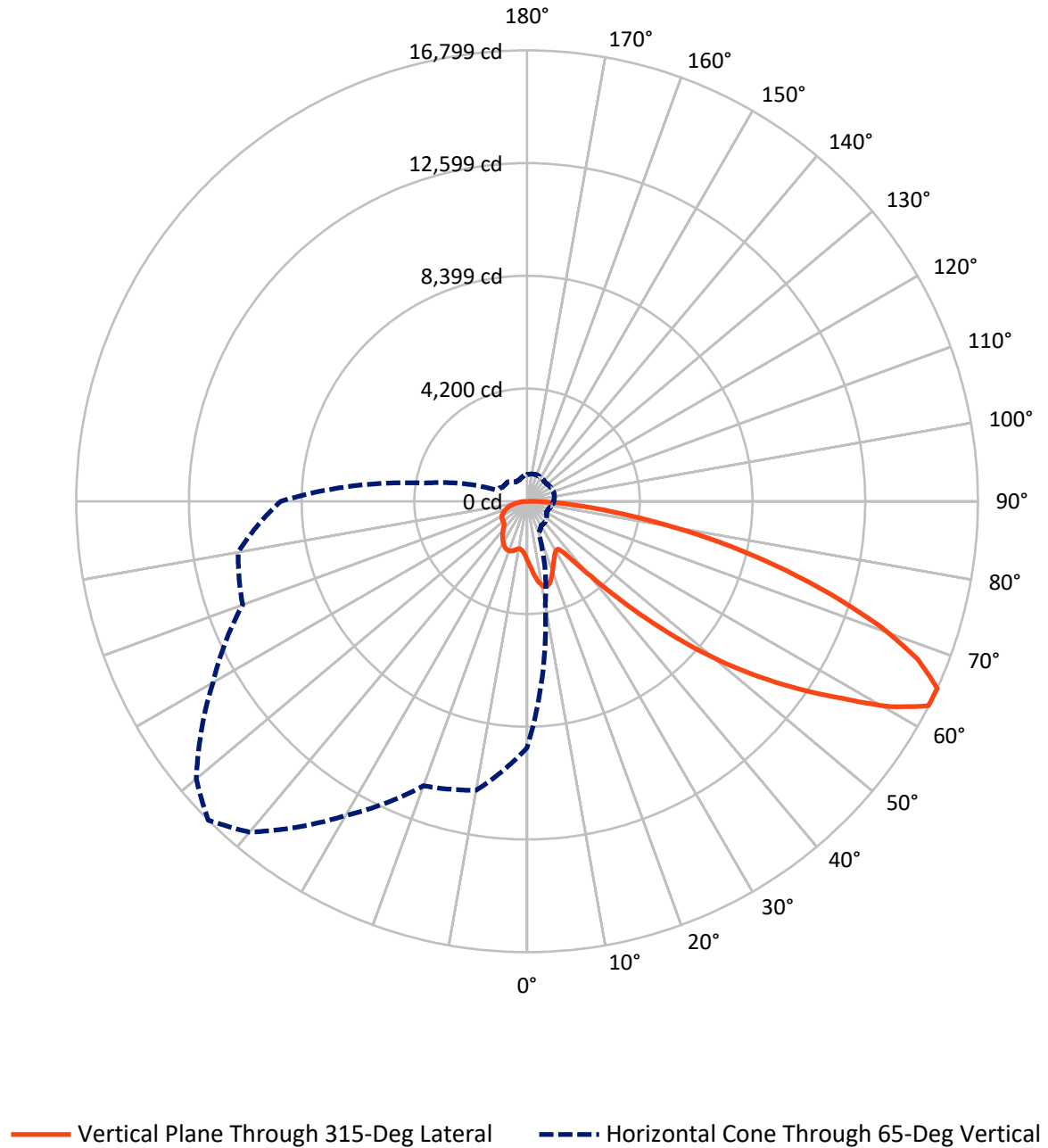
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4090.8	0.0	4090.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	12005.2	0.0	12005.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	16096.0	0.0	16096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	1.4
10°-20°	689.3	4.3
20°-30°	1064.6	6.6
30°-40°	1349.2	8.4
40°-50°	2034.9	12.6
50°-60°	3287.7	20.4
60°-70°	4098.6	25.5
70°-80°	2687.7	16.7
80°-90°	664.5	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°	16096.0	100.0
0°-180°	16096.0	100.0

Coefficient of Utilization



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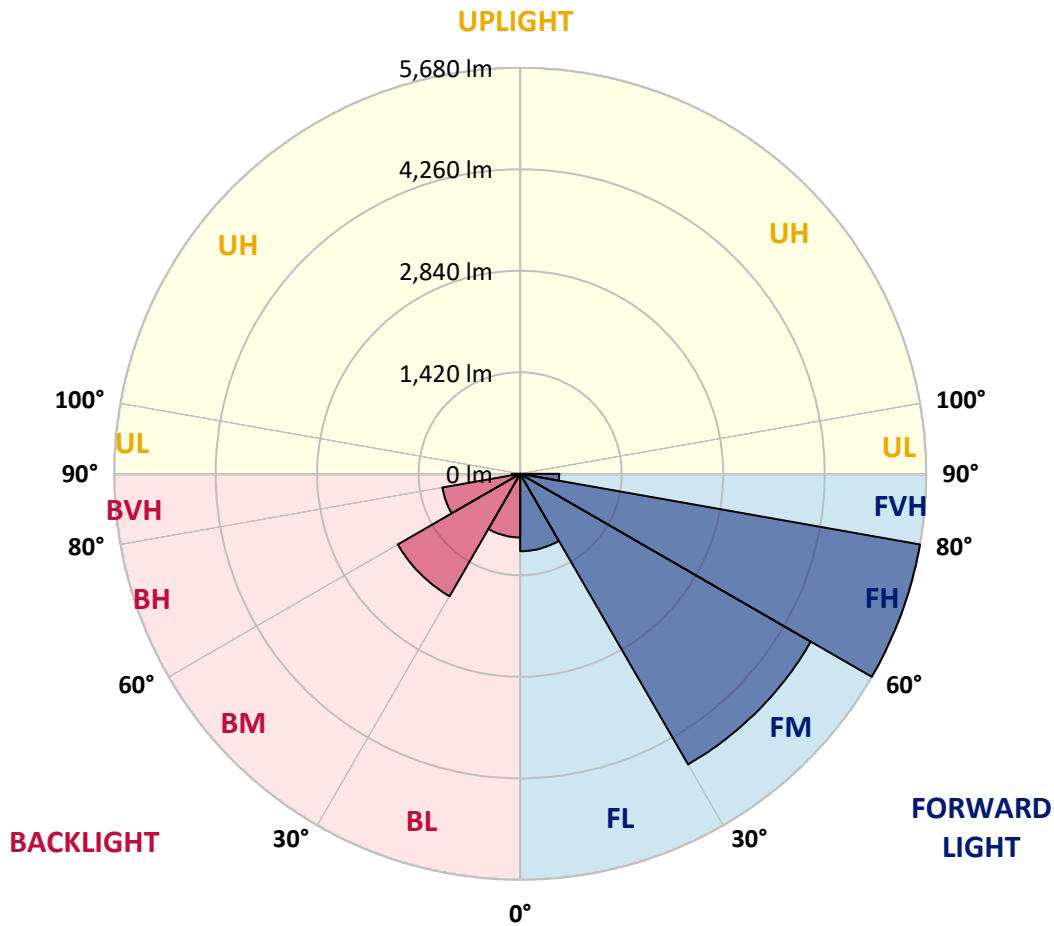
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.6	6.7			
FM (30°-60°)	4694.9	29.2			
FH (60°-80°)	5680.3	35.3			G3/7500
FVH (80°-90°)	547.4	3.4			G4/750
BL (0°-30°)	890.8	5.5	B2/1000		
BM (30°-60°)	1976.9	12.3	B2/2500		
BH (60°-80°)	1106.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	117.1	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°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2.5°	2380.2	2362.0	2343.7	2324.3	2304.9	2285.4	2265.8	2247.1	2228.5	2210.4
5°	2559.4	2519.1	2478.8	2438.5	2398.3	2357.8	2317.4	2279.6	2241.8	2206.1
7.5°	2739.5	2672.9	2606.4	2544.9	2483.4	2423.5	2363.7	2310.9	2258.2	2209.5
10°	2877.5	2793.3	2709.2	2627.9	2546.7	2474.0	2401.2	2338.9	2276.4	2216.3
12.5°	2962.0	2869.5	2777.1	2685.1	2593.0	2507.2	2421.4	2350.8	2280.3	2217.2
15°	3013.4	2917.0	2820.6	2720.7	2620.8	2522.1	2423.3	2341.6	2259.9	2190.0
17.5°	3042.3	2944.5	2846.8	2737.8	2628.8	2514.2	2399.5	2301.2	2203.0	2120.8
20°	3074.1	2972.5	2870.9	2751.1	2631.4	2492.4	2353.5	2231.7	2109.9	2014.2
22.5°	3111.1	3007.3	2903.4	2769.1	2634.8	2465.8	2296.7	2150.1	2003.4	1894.4
25°	3158.6	3056.9	2955.2	2801.8	2648.2	2439.4	2230.7	2058.9	1887.2	1775.5
27.5°	3223.2	3126.2	3029.1	2852.7	2676.2	2421.8	2167.5	1975.6	1783.8	1682.1
30°	3310.2	3216.5	3122.8	2918.7	2714.6	2413.6	2112.4	1906.0	1699.5	1614.1
32.5°	3413.0	3320.2	3227.4	2987.6	2747.7	2403.4	2058.9	1845.9	1632.8	1564.0
35°	3537.9	3449.0	3360.1	3066.1	2772.0	2384.2	1996.6	1786.9	1577.2	1519.9
37.5°	3748.1	3634.8	3521.5	3154.0	2786.5	2351.4	1916.2	1717.4	1518.6	1468.5
40°	4065.7	3900.6	3735.5	3265.6	2795.6	2306.1	1816.7	1634.5	1452.3	1406.9
42.5°	4487.0	4248.7	4010.3	3411.6	2812.8	2259.4	1706.1	1543.1	1380.0	1338.1
45°	5007.2	4685.7	4364.3	3603.7	2843.1	2216.0	1588.9	1445.9	1302.9	1260.4
47.5°	5657.8	5205.3	4752.8	3808.4	2863.9	2180.1	1496.3	1369.0	1241.7	1186.9
50°	6510.5	5828.4	5146.2	3998.3	2850.3	2141.1	1431.8	1318.0	1204.2	1132.1
52.5°	7489.3	6482.9	5476.4	4121.6	2766.7	2075.1	1383.5	1284.3	1185.2	1102.4
55°	8531.5	7063.1	5594.9	4094.4	2593.8	1965.7	1337.5	1260.0	1182.4	1105.4
57.5°	9479.3	7474.4	5469.5	3903.2	2336.9	1811.4	1285.9	1231.1	1176.3	1108.4
60°	10052.2	7577.2	5102.1	3547.2	1992.3	1611.2	1230.0	1186.9	1143.9	1099.0
62.5°	9761.3	7144.4	4527.6	3065.9	1604.2	1371.5	1138.8	1110.2	1081.6	1076.1
65°	9179.1	6532.2	3885.2	2574.8	1264.5	1155.8	1047.2	1033.7	1020.2	1020.9
67.5°	8399.0	5803.5	3208.1	2093.8	979.4	948.6	917.7	925.3	932.7	930.9
70°	7461.7	5008.5	2555.2	1648.5	741.9	750.7	759.5	794.5	829.4	829.4
72.5°	6344.9	4146.6	1948.3	1260.3	572.3	598.9	625.5	675.1	724.6	733.0
75°	4932.0	3158.6	1385.1	914.7	444.4	468.5	492.6	548.2	603.7	642.1
77.5°	3523.8	2210.7	897.6	619.8	342.1	358.5	375.0	428.9	482.8	546.1
80°	2306.3	1424.3	542.3	399.4	256.5	263.3	270.1	315.8	361.4	437.0
82.5°	1340.7	824.4	308.1	245.6	183.3	184.5	185.8	219.5	253.1	317.6
85°	589.9	370.8	151.9	131.3	110.8	110.2	109.6	134.2	158.8	206.8
87.5°	182.6	121.5	60.3	54.4	48.6	48.0	47.4	57.4	67.5	87.5
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°
2213.3	0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2190.2	2.5°	2173.9	2157.7	2143.0	2128.4	2115.6	2102.8	2089.8	2077.0	2067.1	2057.1
2170.9	5°	2140.1	2109.3	2083.5	2057.7	2035.0	2012.2	1991.6	1970.9	1955.0	1939.0
2163.9	7.5°	2123.0	2082.1	2048.1	2014.2	1985.5	1956.8	1931.5	1906.3	1887.4	1868.5
2167.3	10°	2124.2	2081.0	2047.0	2013.1	1982.2	1951.3	1922.9	1894.4	1871.8	1849.1
2171.6	12.5°	2136.2	2101.1	2078.5	2056.0	2031.8	2007.6	1978.2	1948.8	1919.9	1891.0
2153.5	15°	2136.6	2119.7	2122.8	2125.9	2119.6	2113.3	2087.7	2062.2	2021.1	1979.9
2098.3	17.5°	2104.5	2110.6	2147.6	2184.6	2204.3	2224.0	2203.3	2182.8	2128.3	2073.9
2008.2	20°	2037.1	2066.0	2130.3	2194.7	2235.8	2277.0	2267.5	2257.9	2195.7	2133.5
1906.1	22.5°	1948.8	1991.5	2064.9	2138.4	2192.0	2245.6	2251.4	2257.1	2197.6	2138.2
1806.9	25°	1856.2	1905.5	1971.5	2037.5	2090.3	2143.0	2162.7	2182.3	2133.6	2084.9
1720.3	27.5°	1767.9	1815.4	1869.7	1923.9	1966.2	2008.5	2030.4	2052.4	2017.7	1983.0
1644.1	30°	1681.8	1719.7	1764.7	1809.7	1844.8	1880.0	1897.8	1915.7	1889.2	1862.7
1577.4	32.5°	1599.7	1622.0	1658.0	1694.0	1727.6	1761.3	1781.1	1801.0	1776.7	1752.3
1514.3	35°	1520.5	1526.7	1554.1	1581.4	1614.7	1648.1	1671.9	1695.7	1678.3	1661.1
1448.3	37.5°	1441.5	1434.7	1454.4	1474.0	1507.2	1540.5	1569.9	1599.3	1591.3	1583.3
1375.9	40°	1360.5	1345.2	1359.3	1373.5	1405.6	1437.7	1471.5	1505.4	1507.4	1509.2
1299.0	42.5°	1278.7	1258.3	1269.8	1281.5	1311.9	1342.4	1378.9	1415.4	1425.2	1434.9
1222.6	45°	1202.7	1182.9	1192.6	1202.5	1231.4	1260.2	1298.1	1336.0	1350.0	1364.0
1154.4	47.5°	1137.8	1121.1	1130.3	1139.4	1167.7	1195.8	1233.2	1270.6	1286.7	1302.9
1094.4	50°	1079.6	1064.9	1079.2	1093.5	1120.2	1146.8	1180.2	1213.7	1234.4	1255.1
1049.6	52.5°	1035.0	1020.5	1042.0	1063.4	1087.8	1112.2	1143.4	1174.6	1199.2	1223.7
1025.8	55°	1002.7	979.7	1010.2	1040.6	1066.9	1093.2	1120.6	1147.9	1173.9	1199.9
1011.5	57.5°	977.9	944.3	977.1	1009.8	1040.8	1071.7	1098.7	1125.8	1152.0	1178.2
998.1	60°	954.6	910.9	939.7	968.4	1003.9	1039.4	1066.8	1094.4	1120.7	1147.0
982.5	62.5°	928.0	873.5	891.8	910.1	951.4	992.9	1022.2	1051.5	1075.6	1099.7
949.5	65°	891.6	833.6	840.7	847.6	892.0	936.4	964.4	992.4	1013.7	1034.9
890.8	67.5°	842.5	794.3	792.1	789.9	830.8	871.8	898.4	924.9	943.3	961.6
816.2	70°	781.9	747.6	739.9	732.3	768.3	804.3	827.2	850.2	866.7	883.3
733.1	72.5°	709.6	686.1	674.9	663.7	692.1	720.4	741.1	761.8	778.1	794.3
638.9	75°	620.8	602.6	591.9	581.1	602.2	623.2	642.0	660.8	675.6	690.3
544.4	77.5°	529.9	515.4	504.5	493.6	510.8	527.9	544.0	560.1	575.7	591.1
436.7	80°	424.6	412.3	403.3	394.1	408.4	422.5	436.1	449.7	461.5	473.2
321.2	82.5°	315.3	309.3	302.9	296.4	295.2	294.0	289.3	284.5	309.7	334.8
211.5	85°	205.1	198.7	191.5	184.3	178.2	172.0	158.8	145.7	169.2	192.8
93.4	87.5°	90.9	88.3	87.0	85.6	85.4	85.1	75.1	65.0	74.8	84.8
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
2213.3	0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2049.0	2.5°	2040.9	2034.6	2028.4	2022.6	2016.7	2009.5	2016.7	2022.6	2028.4	2034.6
1927.9	5°	1916.8	1908.9	1901.0	1894.9	1888.9	1883.0	1888.9	1894.9	1901.0	1908.9
1855.3	7.5°	1842.0	1832.9	1823.9	1818.5	1813.1	1809.1	1813.1	1818.5	1823.9	1832.9
1834.4	10°	1819.4	1810.8	1802.3	1797.7	1793.1	1791.2	1793.1	1797.7	1802.3	1810.8
1871.9	12.5°	1852.8	1843.2	1833.7	1829.8	1825.9	1825.2	1825.9	1829.8	1833.7	1843.2
1950.9	15°	1921.9	1908.5	1895.3	1890.2	1885.1	1884.7	1885.1	1890.2	1895.3	1908.5
2031.1	17.5°	1988.3	1968.6	1948.8	1942.3	1935.8	1934.8	1935.8	1942.3	1948.8	1968.6
2081.0	20°	2028.6	2003.4	1978.1	1970.0	1961.9	1959.4	1961.9	1970.0	1978.1	2003.4
2084.2	22.5°	2030.1	2003.5	1976.8	1967.9	1959.0	1955.1	1959.0	1967.9	1976.8	2003.5
2036.8	25°	1988.9	1965.8	1942.8	1934.4	1926.1	1921.2	1926.1	1934.4	1942.8	1965.8
1945.7	27.5°	1908.4	1893.0	1877.4	1873.6	1869.8	1868.5	1869.8	1873.6	1877.4	1893.0
1836.1	30°	1809.2	1801.3	1793.3	1793.3	1793.3	1794.6	1793.3	1793.3	1793.3	1801.3
1731.0	32.5°	1709.7	1704.5	1699.3	1700.0	1700.8	1702.0	1700.8	1700.0	1699.3	1704.5
1641.4	35°	1621.8	1613.9	1606.1	1604.4	1602.7	1601.8	1602.7	1604.4	1606.1	1613.9
1565.2	37.5°	1547.0	1532.7	1518.4	1510.9	1503.3	1499.1	1503.3	1510.9	1518.4	1532.7
1493.9	40°	1478.5	1457.6	1436.9	1422.8	1408.9	1400.5	1408.9	1422.8	1436.9	1457.6
1421.9	42.5°	1409.0	1383.1	1357.2	1336.8	1316.3	1302.9	1316.3	1336.8	1357.2	1383.1
1352.3	45°	1340.7	1311.0	1281.5	1257.4	1233.4	1217.9	1233.4	1257.4	1281.5	1311.0
1294.7	47.5°	1286.6	1260.2	1233.9	1211.6	1189.5	1174.6	1189.5	1211.6	1233.9	1260.2
1254.6	50°	1254.3	1233.2	1212.2	1191.6	1171.0	1156.8	1171.0	1191.6	1212.2	1233.2
1228.1	52.5°	1232.5	1215.4	1198.2	1179.8	1161.5	1148.3	1161.5	1179.8	1198.2	1215.4
1206.0	55°	1212.2	1197.2	1182.3	1166.1	1150.0	1138.1	1150.0	1166.1	1182.3	1197.2
1184.4	57.5°	1190.6	1175.5	1160.3	1144.4	1128.3	1116.0	1128.3	1144.4	1160.3	1175.5
1153.8	60°	1160.6	1145.8	1131.1	1114.7	1098.2	1085.4	1098.2	1114.7	1131.1	1145.8
1106.2	62.5°	1112.8	1099.5	1086.1	1068.8	1051.5	1036.2	1051.5	1068.8	1086.1	1099.5
1041.6	65°	1048.2	1035.4	1022.6	1005.8	989.0	975.9	989.0	1005.8	1022.6	1035.4
968.1	67.5°	974.6	962.8	951.1	935.4	919.8	907.9	919.8	935.4	951.1	962.8
889.6	70°	895.9	886.3	876.7	861.7	846.8	833.2	846.8	861.7	876.7	886.3
801.8	72.5°	809.2	801.3	793.3	779.0	764.8	751.7	764.8	779.0	793.3	801.3
698.1	75°	706.0	702.1	698.1	686.2	674.2	661.6	674.2	686.2	698.1	702.1
598.4	77.5°	605.7	600.3	594.7	582.6	570.6	560.6	570.6	582.6	594.7	600.3
482.9	80°	492.6	490.2	487.9	471.7	455.4	436.6	455.4	471.7	487.9	490.2
351.3	82.5°	367.8	366.7	365.6	352.0	338.2	326.1	338.2	352.0	365.6	366.7
213.2	85°	233.6	231.9	230.2	219.5	208.8	197.9	208.8	219.5	230.2	231.9
93.0	87.5°	101.2	99.2	97.0	91.6	86.0	80.7	86.0	91.6	97.0	99.2
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°
2213.3	0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2040.9	2.5°	2049.0	2057.1	2067.1	2077.0	2089.8	2102.8	2115.6	2128.4	2143.0	2157.7
1916.8	5°	1927.9	1939.0	1955.0	1970.9	1991.6	2012.2	2035.0	2057.7	2083.5	2109.3
1842.0	7.5°	1855.3	1868.5	1887.4	1906.3	1931.5	1956.8	1985.5	2014.2	2048.1	2082.1
1819.4	10°	1834.4	1849.1	1871.8	1894.4	1922.9	1951.3	1982.2	2013.1	2047.0	2081.0
1852.8	12.5°	1871.9	1891.0	1919.9	1948.8	1978.2	2007.6	2031.8	2056.0	2078.5	2101.1
1921.9	15°	1950.9	1979.9	2021.1	2062.2	2087.7	2113.3	2119.6	2125.9	2122.8	2119.7
1988.3	17.5°	2031.1	2073.9	2128.3	2182.8	2203.3	2224.0	2204.3	2184.6	2147.6	2110.6
2028.6	20°	2081.0	2133.5	2195.7	2257.9	2267.5	2277.0	2235.8	2194.7	2130.3	2066.0
2030.1	22.5°	2084.2	2138.2	2197.6	2257.1	2251.4	2245.6	2192.0	2138.4	2064.9	1991.5
1988.9	25°	2036.8	2084.9	2133.6	2182.3	2162.7	2143.0	2090.3	2037.5	1971.5	1905.5
1908.4	27.5°	1945.7	1983.0	2017.7	2052.4	2030.4	2008.5	1966.2	1923.9	1869.7	1815.4
1809.2	30°	1836.1	1862.7	1889.2	1915.7	1897.8	1880.0	1844.8	1809.7	1764.7	1719.7
1709.7	32.5°	1731.0	1752.3	1776.7	1801.0	1781.1	1761.3	1727.6	1694.0	1658.0	1622.0
1621.8	35°	1641.4	1661.1	1678.3	1695.7	1671.9	1648.1	1614.7	1581.4	1554.1	1526.7
1547.0	37.5°	1565.2	1583.3	1591.3	1599.3	1569.9	1540.5	1507.2	1474.0	1454.4	1434.7
1478.5	40°	1493.9	1509.2	1507.4	1505.4	1471.5	1437.7	1405.6	1373.5	1359.3	1345.2
1409.0	42.5°	1421.9	1434.9	1425.2	1415.4	1378.9	1342.4	1311.9	1281.5	1269.8	1258.3
1340.7	45°	1352.3	1364.0	1350.0	1336.0	1298.1	1260.2	1231.4	1202.5	1192.6	1182.9
1286.6	47.5°	1294.7	1302.9	1286.7	1270.6	1233.2	1195.8	1167.7	1139.4	1130.3	1121.1
1254.3	50°	1254.6	1255.1	1234.4	1213.7	1180.2	1146.8	1120.2	1093.5	1079.2	1064.9
1232.5	52.5°	1228.1	1223.7	1199.2	1174.6	1143.4	1112.2	1087.8	1063.4	1042.0	1020.5
1212.2	55°	1206.0	1199.9	1173.9	1147.9	1120.6	1093.2	1066.9	1040.6	1010.2	979.7
1190.6	57.5°	1184.4	1178.2	1152.0	1125.8	1098.7	1071.7	1040.8	1009.8	977.1	944.3
1160.6	60°	1153.8	1147.0	1120.7	1094.4	1066.8	1039.4	1003.9	968.4	939.7	910.9
1112.8	62.5°	1106.2	1099.7	1075.6	1051.5	1022.2	992.9	951.4	910.1	891.8	873.5
1048.2	65°	1041.6	1034.9	1013.7	992.4	964.4	936.4	892.0	847.6	840.7	833.6
974.6	67.5°	968.1	961.6	943.3	924.9	898.4	871.8	830.8	789.9	792.1	794.3
895.9	70°	889.6	883.3	866.7	850.2	827.2	804.3	768.3	732.3	739.9	747.6
809.2	72.5°	801.8	794.3	778.1	761.8	741.1	720.4	692.1	663.7	674.9	686.1
706.0	75°	698.1	690.3	675.6	660.8	642.0	623.2	602.2	581.1	591.9	602.6
605.7	77.5°	598.4	591.1	575.7	560.1	544.0	527.9	510.8	493.6	504.5	515.4
492.6	80°	482.9	473.2	461.5	449.7	436.1	422.5	408.4	394.1	403.3	412.3
367.8	82.5°	351.3	334.8	309.7	284.5	289.3	294.0	295.2	296.4	302.9	309.3
233.6	85°	213.2	192.8	169.2	145.7	158.8	172.0	178.2	184.3	191.5	198.7
101.2	87.5°	93.0	84.8	74.8	65.0	75.1	85.1	85.4	85.6	87.0	88.3
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°
2213.3	0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2173.9	2.5°	2190.2	2210.4	2228.5	2247.1	2265.8	2285.4	2304.9	2324.3	2343.7	2362.0
2140.1	5°	2170.9	2206.1	2241.8	2279.6	2317.4	2357.8	2398.3	2438.5	2478.8	2519.1
2123.0	7.5°	2163.9	2209.5	2258.2	2310.9	2363.7	2423.5	2483.4	2544.9	2606.4	2672.9
2124.2	10°	2167.3	2216.3	2276.4	2338.9	2401.2	2474.0	2546.7	2627.9	2709.2	2793.3
2136.2	12.5°	2171.6	2217.2	2280.3	2350.8	2421.4	2507.2	2593.0	2685.1	2777.1	2869.5
2136.6	15°	2153.5	2190.0	2259.9	2341.6	2423.3	2522.1	2620.8	2720.7	2820.6	2917.0
2104.5	17.5°	2098.3	2120.8	2203.0	2301.2	2399.5	2514.2	2628.8	2737.8	2846.8	2944.5
2037.1	20°	2008.2	2014.2	2109.9	2231.7	2353.5	2492.4	2631.4	2751.1	2870.9	2972.5
1948.8	22.5°	1906.1	1894.4	2003.4	2150.1	2296.7	2465.8	2634.8	2769.1	2903.4	3007.3
1856.2	25°	1806.9	1775.5	1887.2	2058.9	2230.7	2439.4	2648.2	2801.8	2955.2	3056.9
1767.9	27.5°	1720.3	1682.1	1783.8	1975.6	2167.5	2421.8	2676.2	2852.7	3029.1	3126.2
1681.8	30°	1644.1	1614.1	1699.5	1906.0	2112.4	2413.6	2714.6	2918.7	3122.8	3216.5
1599.7	32.5°	1577.4	1564.0	1632.8	1845.9	2058.9	2403.4	2747.7	2987.6	3227.4	3320.2
1520.5	35°	1514.3	1519.9	1577.2	1786.9	1996.6	2384.2	2772.0	3066.1	3360.1	3449.0
1441.5	37.5°	1448.3	1468.5	1518.6	1717.4	1916.2	2351.4	2786.5	3154.0	3521.5	3634.8
1360.5	40°	1375.9	1406.9	1452.3	1634.5	1816.7	2306.1	2795.6	3265.6	3735.5	3900.6
1278.7	42.5°	1299.0	1338.1	1380.0	1543.1	1706.1	2259.4	2812.8	3411.6	4010.3	4248.7
1202.7	45°	1222.6	1260.4	1302.9	1445.9	1588.9	2216.0	2843.1	3603.7	4364.3	4685.7
1137.8	47.5°	1154.4	1186.9	1241.7	1369.0	1496.3	2180.1	2863.9	3808.4	4752.8	5205.3
1079.6	50°	1094.4	1132.1	1204.2	1318.0	1431.8	2141.1	2850.3	3998.3	5146.2	5828.4
1035.0	52.5°	1049.6	1102.4	1185.2	1284.3	1383.5	2075.1	2766.7	4121.6	5476.4	6482.9
1002.7	55°	1025.8	1105.4	1182.4	1260.0	1337.5	1965.7	2593.8	4094.4	5594.9	7063.1
977.9	57.5°	1011.5	1108.4	1176.3	1231.1	1285.9	1811.4	2336.9	3903.2	5469.5	7474.4
954.6	60°	998.1	1099.0	1143.9	1186.9	1230.0	1611.2	1992.3	3547.2	5102.1	7577.2
928.0	62.5°	982.5	1076.1	1081.6	1110.2	1138.8	1371.5	1604.2	3065.9	4527.6	7144.4
891.6	65°	949.5	1020.9	1020.2	1033.7	1047.2	1155.8	1264.5	2574.8	3885.2	6532.2
842.5	67.5°	890.8	930.9	932.7	925.3	917.7	948.6	979.4	2093.8	3208.1	5803.5
781.9	70°	816.2	829.4	829.4	794.5	759.5	750.7	741.9	1648.5	2555.2	5008.5
709.6	72.5°	733.1	733.0	724.6	675.1	625.5	598.9	572.3	1260.3	1948.3	4146.6
620.8	75°	638.9	642.1	603.7	548.2	492.6	468.5	444.4	914.7	1385.1	3158.6
529.9	77.5°	544.4	546.1	482.8	428.9	375.0	358.5	342.1	619.8	897.6	2210.7
424.6	80°	436.7	437.0	361.4	315.8	270.1	263.3	256.5	399.4	542.3	1424.3
315.3	82.5°	321.2	317.6	253.1	219.5	185.8	184.5	183.3	245.6	308.1	824.4
205.1	85°	211.5	206.8	158.8	134.2	109.6	110.2	110.8	131.3	151.9	370.8
90.9	87.5°	93.4	87.5	67.5	57.4	47.4	48.0	48.6	54.4	60.3	121.5
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°
2213.3	0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2380.2	2.5°	2389.2	2398.3	2411.1	2424.0	2431.6	2439.3	2443.1	2446.9	2445.2	2446.9
2559.4	5°	2590.9	2622.5	2653.8	2685.1	2702.1	2719.1	2729.4	2739.7	2747.6	2739.7
2739.5	7.5°	2790.8	2842.0	2888.1	2934.2	2962.0	2989.8	3004.8	3019.8	3027.0	3019.8
2877.5	10°	2938.2	2998.8	3052.9	3107.0	3139.8	3172.4	3187.0	3201.5	3207.0	3201.5
2962.0	12.5°	3027.8	3093.4	3142.3	3191.1	3214.9	3238.6	3246.6	3254.6	3255.5	3254.6
3013.4	15°	3070.1	3126.8	3157.4	3188.2	3189.0	3189.9	3181.4	3172.9	3162.9	3172.9
3042.3	17.5°	3080.6	3118.9	3119.5	3120.0	3085.6	3051.2	3019.7	2988.1	2965.8	2988.1
3074.1	20°	3087.5	3100.9	3060.5	3020.2	2944.3	2868.3	2813.0	2757.8	2723.8	2757.8
3111.1	22.5°	3093.6	3076.1	2992.5	2908.9	2797.2	2685.6	2616.4	2547.3	2509.8	2547.3
3158.6	25°	3103.4	3048.2	2921.3	2794.4	2658.8	2523.2	2450.5	2377.9	2342.4	2377.9
3223.2	27.5°	3124.5	3025.7	2857.6	2689.6	2539.3	2389.0	2317.5	2246.0	2212.5	2246.0
3310.2	30°	3163.1	3015.9	2809.1	2602.2	2445.5	2288.9	2222.6	2156.3	2125.0	2156.3
3413.0	32.5°	3211.5	3010.0	2775.9	2541.9	2394.7	2247.5	2195.4	2143.3	2120.8	2143.3
3537.9	35°	3291.2	3044.7	2800.7	2556.9	2454.6	2352.5	2340.3	2328.2	2326.3	2328.2
3748.1	37.5°	3457.9	3167.8	2946.1	2724.5	2717.8	2711.2	2766.8	2822.3	2851.2	2822.3
4065.7	40°	3750.2	3434.7	3269.8	3105.0	3221.3	3337.7	3472.7	3607.8	3675.0	3607.8
4487.0	42.5°	4173.9	3860.9	3765.9	3670.9	3924.7	4178.5	4424.1	4669.8	4814.0	4669.8
5007.2	45°	4726.0	4444.7	4402.8	4360.9	4767.4	5174.1	5577.7	5981.4	6226.4	5981.4
5657.8	47.5°	5384.2	5110.6	5102.1	5093.6	5680.1	6266.5	6857.4	7448.1	7795.1	7448.1
6510.5	50°	6172.5	5834.7	5836.1	5837.6	6593.5	7349.4	8129.3	8909.2	9380.8	8909.2
7489.3	52.5°	7080.1	6671.0	6629.7	6588.2	7491.1	8394.0	9359.0	10324.0	10889.2	10324.0
8531.5	55°	8127.2	7722.9	7561.6	7400.3	8405.3	9410.1	10560.5	11710.9	12383.1	11710.9
9479.3	57.5°	9259.2	9038.9	8715.4	8392.0	9406.7	10421.4	11724.4	13027.4	13861.0	13027.4
10052.2	60°	10394.1	10736.1	10334.4	9932.7	10892.9	11853.2	13248.3	14643.4	15544.3	14643.4
9761.3	62.5°	10695.6	11630.0	11584.7	11539.3	12419.0	13298.7	14626.0	15953.3	16786.0	15953.3
9179.1	65°	10056.0	10932.9	11106.4	11279.9	12397.8	13515.7	14802.8	16089.8	16798.8	16089.8
8399.0	67.5°	9233.0	10067.0	10148.4	10229.7	11394.4	12559.1	13851.7	15144.3	15699.8	15144.3
7461.7	70°	8368.9	9276.1	9312.5	9348.9	10390.5	11432.1	12544.4	13656.7	13965.4	13656.7
6344.9	72.5°	7385.9	8427.0	8453.2	8479.2	9294.2	10109.1	10942.2	11775.2	11806.5	11775.2
4932.0	75°	6009.5	7086.9	7183.7	7280.4	7914.4	8548.4	9134.9	9721.4	9564.2	9721.4
3523.8	77.5°	4529.6	5535.5	5673.9	5812.3	6294.3	6776.3	7192.2	7608.2	7338.2	7608.2
2306.3	80°	3152.5	3998.6	4170.7	4342.8	4706.8	5070.6	5289.1	5507.4	5073.0	5507.4
1340.7	82.5°	1919.1	2497.7	2689.9	2882.2	3132.7	3383.3	3474.4	3565.5	3224.0	3565.5
589.9	85°	896.9	1203.9	1367.4	1530.9	1736.8	1942.6	1994.3	2046.0	1772.5	2046.0
182.6	87.5°	285.8	389.0	480.2	571.4	674.4	777.3	781.7	786.0	659.9	786.0
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):

325°		330°	335°	340°	345°	350°	355°	360°
2213.3	0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2443.1	2.5°	2439.3	2431.6	2424.0	2411.1	2398.3	2389.2	2380.2
2729.4	5°	2719.1	2702.1	2685.1	2653.8	2622.5	2590.9	2559.4
3004.8	7.5°	2989.8	2962.0	2934.2	2888.1	2842.0	2790.8	2739.5
3187.0	10°	3172.4	3139.8	3107.0	3052.9	2998.8	2938.2	2877.5
3246.6	12.5°	3238.6	3214.9	3191.1	3142.3	3093.4	3027.8	2962.0
3181.4	15°	3189.9	3189.0	3188.2	3157.4	3126.8	3070.1	3013.4
3019.7	17.5°	3051.2	3085.6	3120.0	3119.5	3118.9	3080.6	3042.3
2813.0	20°	2868.3	2944.3	3020.2	3060.5	3100.9	3087.5	3074.1
2616.4	22.5°	2685.6	2797.2	2908.9	2992.5	3076.1	3093.6	3111.1
2450.5	25°	2523.2	2658.8	2794.4	2921.3	3048.2	3103.4	3158.6
2317.5	27.5°	2389.0	2539.3	2689.6	2857.6	3025.7	3124.5	3223.2
2222.6	30°	2288.9	2445.5	2602.2	2809.1	3015.9	3163.1	3310.2
2195.4	32.5°	2247.5	2394.7	2541.9	2775.9	3010.0	3211.5	3413.0
2340.3	35°	2352.5	2454.6	2556.9	2800.7	3044.7	3291.2	3537.9
2766.8	37.5°	2711.2	2717.8	2724.5	2946.1	3167.8	3457.9	3748.1
3472.7	40°	3337.7	3221.3	3105.0	3269.8	3434.7	3750.2	4065.7
4424.1	42.5°	4178.5	3924.7	3670.9	3765.9	3860.9	4173.9	4487.0
5577.7	45°	5174.1	4767.4	4360.9	4402.8	4444.7	4726.0	5007.2
6857.4	47.5°	6266.5	5680.1	5093.6	5102.1	5110.6	5384.2	5657.8
8129.3	50°	7349.4	6593.5	5837.6	5836.1	5834.7	6172.5	6510.5
9359.0	52.5°	8394.0	7491.1	6588.2	6629.7	6671.0	7080.1	7489.3
10560.5	55°	9410.1	8405.3	7400.3	7561.6	7722.9	8127.2	8531.5
11724.4	57.5°	10421.4	9406.7	8392.0	8715.4	9038.9	9259.2	9479.3
13248.3	60°	11853.2	10892.9	9932.7	10334.4	10736.1	10394.1	10052.2
14626.0	62.5°	13298.7	12419.0	11539.3	11584.7	11630.0	10695.6	9761.3
14802.8	65°	13515.7	12397.8	11279.9	11106.4	10932.9	10056.0	9179.1
13851.7	67.5°	12559.1	11394.4	10229.7	10148.4	10067.0	9233.0	8399.0
12544.4	70°	11432.1	10390.5	9348.9	9312.5	9276.1	8368.9	7461.7
10942.2	72.5°	10109.1	9294.2	8479.2	8453.2	8427.0	7385.9	6344.9
9134.9	75°	8548.4	7914.4	7280.4	7183.7	7086.9	6009.5	4932.0
7192.2	77.5°	6776.3	6294.3	5812.3	5673.9	5535.5	4529.6	3523.8
5289.1	80°	5070.6	4706.8	4342.8	4170.7	3998.6	3152.5	2306.3
3474.4	82.5°	3383.3	3132.7	2882.2	2689.9	2497.7	1919.1	1340.7
1994.3	85°	1942.6	1736.8	1530.9	1367.4	1203.9	896.9	589.9
781.7	87.5°	777.3	674.4	571.4	480.2	389.0	285.8	182.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)