

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: NEO-RAY

Report Number: P331447-935

Luminaire Tested: **S122DIP-S1005D925U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331447-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S1005D925U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6975.1 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

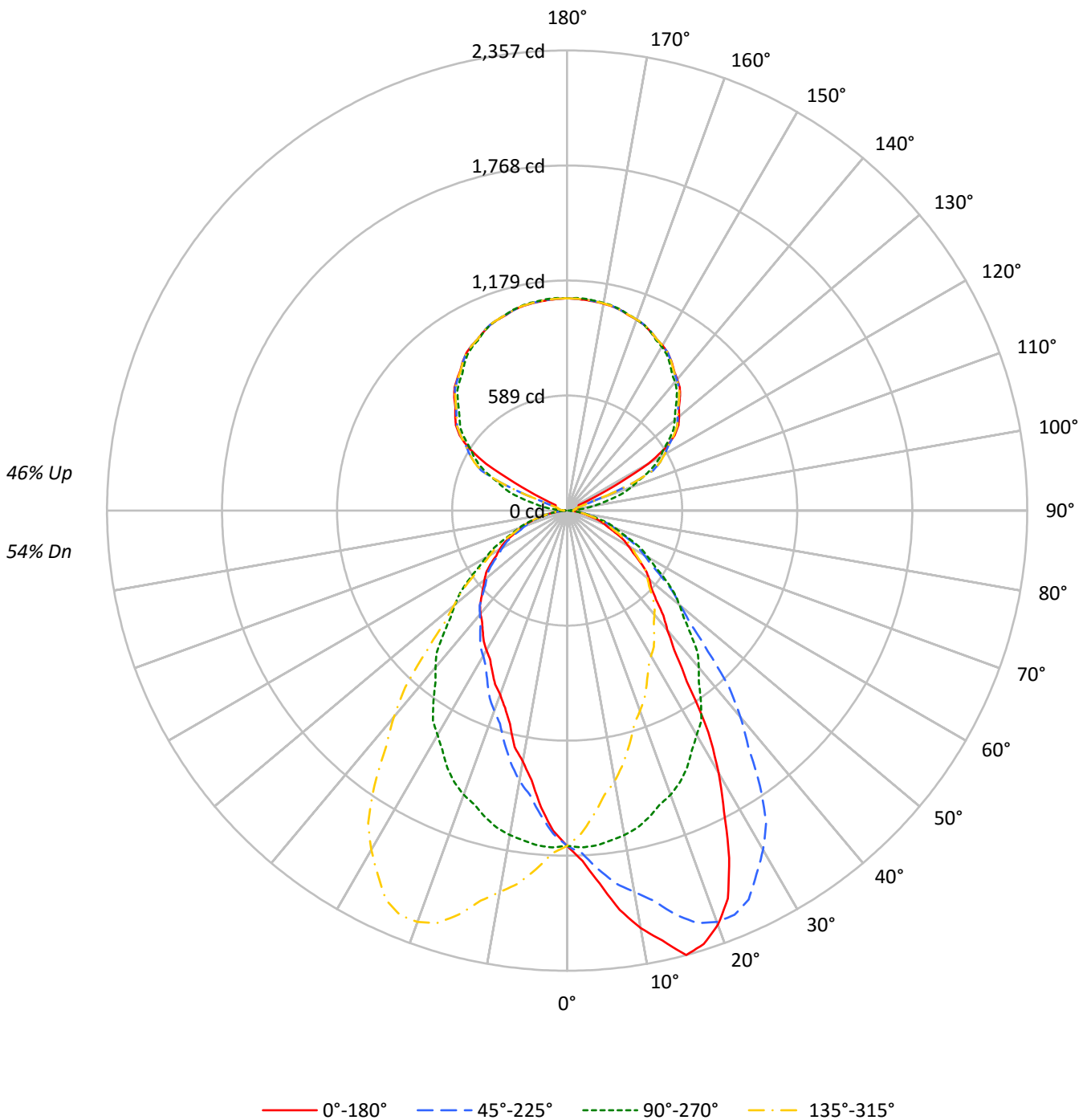
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	74	72	65	63	61	54	53	52	47
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	38	35
4	76	66	58	52	71	62	55	50	53	48	44	46	42	39	39	36	34	30
5	70	59	51	45	65	55	48	43	48	43	38	41	37	34	35	32	30	27
6	65	53	45	40	60	50	43	38	44	38	34	38	33	30	32	29	26	24
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	30	26	24	21
8	56	44	36	31	52	41	34	30	36	31	27	32	27	24	27	24	21	19
9	52	40	33	28	49	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	46	35	28	24	31	26	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27719	27719	27719	27719
5°	31076	27901	24725	27901
10°	35611	27671	21397	27671
15°	39397	27164	18903	27164
20°	38797	26620	17234	26620
25°	34983	25896	16174	25896
30°	28909	24738	15401	24738
35°	21068	23526	14852	23526
40°	16828	22097	14547	22097
45°	14705	20445	14132	20445
50°	13823	18844	13855	18844
55°	12740	17219	13486	17219
60°	11677	15490	12910	15490
65°	10636	13941	12351	13941
70°	9659	12430	11528	12430
75°	8559	10742	10212	10742
80°	7364	8898	8219	8898
85°	6595	6595	4891	6595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	2.3
10°-20°	475.3	6.8
20°-30°	689.9	9.9
30°-40°	728.0	10.4
40°-50°	644.6	9.2
50°-60°	514.4	7.4
60°-70°	349.6	5.0
70°-80°	179.3	2.6
80°-90°	45.9	0.7
90°-100°	36.2	0.5
100°-110°	132.9	1.9
110°-120°	355.3	5.1
120°-130°	586.6	8.4
130°-140°	623.8	8.9
140°-150°	579.8	8.3
150°-160°	466.2	6.7
160°-170°	300.4	4.3
170°-180°	103.4	1.5
0°-30°	1328.7	19.0
0°-40°	2056.7	29.5
0°-60°	3215.7	46.1
0°-90°	3790.4	54.3
90°-120°	524.5	7.5
90°-150°	2314.7	33.2
90°-180°	3185.0	45.7
0°-180°	6975.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1717	1717	1717	1717	1717	
5°	1917	1722	1526	1722	1917	191
15°	2357	1625	1131	1625	2357	650
25°	1964	1454	908	1454	1964	888
35°	1069	1194	754	1194	1069	695
45°	644	895	619	895	644	506
55°	453	612	479	612	453	406
65°	278	365	323	365	278	277
75°	137	172	164	172	137	147
85°	36	36	26	36	36	40
90°	21	1	21	1	21	11
95°	34	51	34	51	34	32
105°	60	239	60	239	60	62
115°	64	452	64	452	64	162
125°	672	639	672	639	672	582
135°	817	791	817	791	817	630
145°	932	918	932	918	932	583
155°	1011	1010	1011	1010	1011	467
165°	1062	1065	1062	1065	1062	300
175°	1083	1089	1083	1089	1083	103
180°	1087	1087	1087	1087	1087	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1796.0	1796.6	1797.6	1789.2	1788.1	1788.1	1780.7	1774.4	1767.0	1757.0	1758.1
5°	1917.4	1924.7	1927.3	1919.4	1907.5	1906.3	1895.1	1876.5	1859.4	1845.6	1835.7
7.5°	2062.4	2065.3	2058.8	2048.4	2039.5	2023.7	2002.9	1982.4	1953.8	1927.5	1908.0
10°	2172.1	2176.1	2164.9	2149.7	2137.2	2118.7	2088.4	2057.4	2019.7	1983.5	1954.4
12.5°	2255.6	2265.3	2250.9	2248.9	2227.5	2202.1	2165.9	2150.3	2097.3	2046.8	2015.7
15°	2356.9	2356.2	2357.6	2345.0	2329.2	2325.2	2287.0	2245.4	2170.8	2141.1	2089.6
17.5°	2327.6	2337.6	2342.3	2342.1	2341.7	2339.3	2326.9	2300.7	2263.3	2215.2	2155.8
20°	2258.0	2271.1	2273.1	2288.3	2296.9	2308.1	2312.7	2305.4	2282.3	2242.1	2190.6
22.5°	2150.3	2154.0	2160.2	2183.8	2202.4	2230.5	2245.1	2269.5	2260.7	2241.0	2198.0
25°	1963.7	1957.1	1980.1	1992.0	2034.9	2079.7	2112.1	2147.8	2179.4	2198.6	2186.0
27.5°	1739.6	1729.7	1764.3	1795.8	1830.7	1879.2	1929.6	1989.1	2038.6	2100.5	2121.8
30°	1550.6	1556.5	1589.5	1623.2	1675.9	1744.6	1801.3	1866.6	1937.2	2006.6	2054.7
32.5°	1346.9	1369.7	1390.5	1442.1	1488.6	1565.1	1648.2	1729.9	1818.0	1896.8	1971.3
35°	1068.9	1095.3	1124.4	1161.9	1227.3	1303.1	1384.3	1494.5	1614.6	1722.2	1810.6
37.5°	899.7	895.5	912.1	939.4	992.2	1053.5	1146.9	1255.8	1397.1	1523.5	1648.2
40°	798.4	795.7	807.6	832.7	873.0	917.8	999.6	1095.3	1226.6	1381.0	1529.5
42.5°	728.8	730.3	736.9	754.6	782.1	819.1	880.4	961.7	1082.0	1227.4	1387.0
45°	644.0	648.6	655.9	664.4	680.3	710.7	744.9	803.1	898.0	1019.4	1176.5
47.5°	583.0	583.2	590.6	598.1	607.4	624.6	652.6	689.0	756.0	854.9	989.9
50°	550.3	545.7	551.0	556.9	566.8	578.7	597.1	631.5	676.3	756.1	869.0
52.5°	510.1	510.3	515.1	517.3	526.2	538.0	554.9	578.7	619.3	681.7	774.5
55°	452.6	455.9	458.6	462.5	470.5	479.1	492.2	508.1	539.8	586.6	655.2
57.5°	398.6	399.6	402.3	409.7	414.7	422.7	435.2	449.6	470.2	504.9	556.5
60°	361.6	361.6	366.9	370.1	376.8	384.7	394.6	408.5	426.9	455.3	496.9
62.5°	327.8	327.3	329.4	334.8	339.8	347.2	357.1	368.9	386.2	411.5	445.7
65°	278.4	277.2	281.1	282.4	287.7	295.0	302.9	315.4	329.2	347.8	378.1
67.5°	230.9	232.6	234.6	237.1	240.0	247.7	253.0	261.8	273.5	288.9	309.4
70°	204.6	204.6	204.6	206.6	210.5	214.5	219.7	227.0	238.2	251.4	269.8
72.5°	175.0	177.1	179.2	178.1	183.0	185.4	191.7	195.9	206.6	215.0	231.4
75°	137.2	137.2	137.2	140.5	142.5	144.5	148.4	152.4	157.7	168.2	176.8
77.5°	102.4	102.1	102.8	103.6	105.7	108.1	109.3	112.8	117.7	122.6	129.8
80°	79.2	80.5	81.2	82.5	82.5	83.8	84.5	89.1	92.4	95.7	100.3
82.5°	61.2	61.5	61.6	61.9	62.4	63.2	64.9	66.4	67.6	70.3	73.9
85°	35.6	35.0	35.0	36.2	35.6	35.6	36.9	38.2	38.2	38.9	40.9
87.5°	18.0	17.9	18.3	17.7	17.7	18.1	17.9	17.2	17.6	17.9	18.2
90°	21.3	20.9	20.5	20.1	19.8	19.2	18.3	17.5	16.6	15.8	14.3
92.5°	21.3	21.0	20.8	20.6	20.4	20.1	19.6	19.1	18.7	18.3	17.6
95°	33.8	34.0	34.2	34.4	34.5	34.2	33.3	32.4	31.5	30.7	29.4
97.5°	45.1	44.9	44.7	44.5	44.3	43.8	43.1	42.4	41.8	41.1	38.2
100°	52.7	52.3	52.0	51.7	51.3	50.5	49.0	47.6	46.2	44.9	41.8
102.5°	56.5	56.0	55.4	55.0	54.5	53.4	51.6	49.7	47.9	46.1	70.9
105°	59.8	59.1	58.4	57.7	57.0	55.6	53.7	51.8	49.9	48.0	95.7
107.5°	61.5	60.8	60.1	59.4	58.7	59.3	61.3	63.2	65.2	67.2	124.3
110°	62.2	61.4	60.7	60.0	59.3	67.7	85.2	102.6	120.1	137.6	188.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	62.8	62.2	61.6	61.0	60.5	92.1	155.8	219.6	283.4	347.1	359.6
115°	64.5	77.1	89.6	102.2	114.8	161.5	242.5	323.4	404.2	485.2	480.8
117.5°	263.3	304.6	345.9	387.3	428.6	459.1	478.7	498.3	517.8	537.4	534.4
120°	479.7	503.3	526.8	550.4	574.0	584.8	582.7	580.6	578.5	576.4	573.3
122.5°	598.6	603.1	607.7	612.3	616.9	618.5	617.3	616.0	614.8	613.5	610.1
125°	672.4	671.8	671.2	670.7	670.2	669.3	668.1	666.9	665.7	664.4	661.2
127.5°	718.8	718.8	718.7	718.6	718.4	717.6	715.7	713.9	712.1	710.4	707.9
130°	747.8	748.0	748.1	748.4	748.6	747.6	745.7	743.8	741.8	739.9	738.0
132.5°	776.1	776.3	776.4	776.6	776.8	776.1	774.5	772.8	771.2	769.5	767.6
135°	817.0	817.3	817.7	818.0	818.4	817.7	816.0	814.2	812.4	810.7	809.2
137.5°	854.3	854.9	855.5	856.1	856.7	856.1	854.4	852.6	850.9	849.3	847.5
140°	877.5	878.5	879.3	880.2	881.1	880.7	879.2	877.5	876.0	874.4	872.5
142.5°	900.2	901.1	902.0	902.8	903.7	903.4	902.0	900.5	899.1	897.7	895.5
145°	931.9	932.7	933.6	934.4	935.3	935.1	933.9	932.7	931.4	930.2	927.3
147.5°	959.7	960.4	961.1	961.8	962.6	962.5	961.6	960.7	959.8	958.9	956.0
150°	976.6	977.5	978.4	979.3	980.2	980.1	979.0	977.9	976.9	975.9	973.1
152.5°	991.1	992.3	993.4	994.5	995.7	995.7	994.7	993.7	992.6	991.6	988.9
155°	1011.2	1012.6	1014.0	1015.5	1016.8	1017.0	1016.0	1014.9	1013.8	1012.8	1010.7
157.5°	1029.7	1031.0	1032.3	1033.7	1035.1	1035.2	1034.0	1032.8	1031.7	1030.4	1029.0
160°	1040.3	1041.6	1042.8	1044.0	1045.3	1045.3	1044.3	1043.2	1042.2	1041.1	1040.1
162.5°	1049.1	1050.7	1052.1	1053.7	1055.2	1055.3	1054.1	1052.9	1051.7	1050.6	1049.6
165°	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2	1066.0	1064.8	1063.6	1062.4	1061.9
167.5°	1070.7	1072.3	1073.8	1075.4	1076.9	1077.2	1075.9	1074.7	1073.5	1072.3	1071.8
170°	1075.7	1077.3	1078.8	1080.5	1082.0	1082.2	1081.0	1079.8	1078.5	1077.3	1076.9
172.5°	1079.5	1081.1	1082.6	1084.2	1085.8	1086.0	1084.8	1083.5	1082.3	1081.1	1080.7
175°	1082.8	1084.5	1086.3	1088.0	1089.8	1090.0	1088.8	1087.6	1086.4	1085.1	1084.8
177.5°	1084.9	1086.1	1087.4	1088.6	1089.9	1090.0	1089.1	1088.0	1087.1	1086.1	1086.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1761.8	1757.6	1754.9	1745.4	1736.9	1728.5	1725.9	1726.9	1715.3	1704.2	1699.4
5°	1830.4	1817.1	1804.7	1786.8	1765.7	1742.6	1730.7	1721.5	1698.4	1673.4	1658.8
7.5°	1891.9	1873.0	1848.8	1815.3	1784.6	1748.3	1725.2	1704.7	1670.9	1635.6	1613.9
10°	1929.3	1903.6	1872.6	1831.7	1794.1	1749.9	1718.8	1687.8	1648.2	1606.0	1579.6
12.5°	1961.5	1926.8	1896.4	1843.8	1799.3	1744.0	1707.3	1663.5	1621.9	1571.7	1545.8
15°	2038.2	1974.2	1916.2	1856.7	1802.0	1724.8	1683.9	1625.1	1570.4	1508.4	1478.7
17.5°	2097.5	2025.5	1934.1	1858.6	1794.8	1709.3	1649.2	1578.8	1514.1	1443.2	1402.8
20°	2131.2	2048.7	1950.4	1860.7	1784.2	1686.5	1621.2	1549.3	1473.4	1393.5	1350.0
22.5°	2151.3	2064.6	1967.4	1852.8	1763.1	1668.0	1585.8	1507.0	1430.1	1343.9	1298.3
25°	2157.7	2078.5	1975.6	1846.2	1736.6	1629.1	1530.2	1453.6	1360.6	1280.0	1213.4
27.5°	2126.2	2069.5	1970.5	1833.8	1706.2	1580.5	1470.1	1383.4	1285.2	1197.8	1130.8
30°	2087.7	2054.7	1958.3	1821.1	1681.9	1546.6	1425.2	1326.9	1229.2	1140.8	1072.2
32.5°	2028.1	2020.9	1936.2	1803.2	1656.0	1503.9	1378.3	1278.8	1170.7	1083.8	1018.4
35°	1910.9	1942.5	1889.1	1763.1	1607.3	1443.0	1307.1	1193.6	1081.5	998.3	936.9
37.5°	1753.9	1832.5	1818.5	1704.3	1541.6	1376.8	1226.8	1108.1	1001.3	917.3	857.1
40°	1645.6	1745.9	1760.4	1659.5	1495.2	1325.6	1166.6	1048.4	944.2	867.7	806.9
42.5°	1529.5	1646.7	1686.5	1605.6	1444.5	1271.8	1112.8	990.4	887.2	812.8	759.0
45°	1334.8	1489.9	1561.9	1515.6	1359.9	1183.1	1019.4	895.4	801.7	731.8	690.2
47.5°	1152.9	1322.3	1419.0	1402.7	1265.8	1090.7	928.9	809.9	718.7	662.9	625.7
50°	1024.1	1198.3	1315.0	1320.3	1198.3	1024.7	862.4	750.2	666.4	614.3	583.9
52.5°	912.1	1078.4	1205.7	1233.7	1122.7	956.1	802.7	691.1	617.3	569.5	542.3
55°	766.0	906.6	1047.8	1099.2	1010.2	851.9	710.0	611.7	542.3	509.4	485.6
57.5°	636.9	754.1	884.4	941.3	886.4	750.9	617.9	532.4	476.3	447.4	429.1
60°	568.8	661.2	777.3	845.2	797.7	677.0	560.9	479.7	433.5	407.8	390.6
62.5°	505.4	587.3	685.4	747.6	721.7	607.9	503.9	432.2	392.4	368.2	355.8
65°	417.0	481.6	557.6	614.9	597.8	511.3	426.3	364.9	333.2	314.1	304.2
67.5°	343.4	390.1	442.7	493.0	479.1	417.9	349.6	301.8	278.2	261.7	255.7
70°	297.0	332.5	379.4	419.7	408.5	358.3	304.2	263.3	242.8	228.9	223.0
72.5°	252.6	281.9	317.6	350.5	342.9	301.3	256.1	225.2	209.6	196.7	191.9
75°	190.7	213.1	234.9	256.7	254.7	222.4	196.0	172.2	159.7	149.8	147.8
77.5°	140.8	153.3	168.2	181.1	177.5	159.0	138.3	124.7	115.5	108.8	107.8
80°	107.5	114.8	125.4	134.6	130.0	122.1	105.6	95.7	89.1	82.5	79.8
82.5°	78.0	85.2	91.6	96.6	93.1	85.7	75.5	68.8	64.8	60.3	59.2
85°	40.9	44.9	47.5	48.8	47.5	42.9	38.2	35.6	32.4	30.4	29.7
87.5°	18.4	18.2	17.8	18.6	16.6	16.3	13.8	11.8	11.6	11.5	10.8
90°	12.9	11.5	10.2	8.4	6.5	4.6	2.7	0.8	2.7	4.6	6.5
92.5°	16.9	16.2	15.4	15.2	15.3	15.5	15.7	15.8	15.7	15.5	15.3
95°	28.2	27.0	25.7	28.1	33.8	39.6	45.4	51.1	45.4	39.6	33.8
97.5°	35.4	32.5	29.7	36.4	52.7	69.0	85.2	101.4	85.2	69.0	52.7
100°	38.9	35.9	33.0	43.4	67.3	91.3	115.2	139.2	115.2	91.3	67.3
102.5°	95.7	120.6	145.5	160.4	165.5	170.6	175.6	180.7	175.6	170.6	165.5
105°	143.4	191.1	238.8	260.0	254.8	249.5	244.3	239.0	244.3	249.5	254.8
107.5°	181.6	238.8	296.0	322.5	318.2	314.0	309.8	305.6	309.8	314.0	318.2
110°	238.6	289.1	339.6	363.0	359.4	355.7	352.1	348.4	352.1	355.7	359.4



TEST NUMBER: P331447-935

CATALOG NUMBER: S122DIP-S1005D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	372.0	384.5	397.0	401.6	398.4	395.1	391.8	388.6	391.8	395.1	398.4
115°	476.5	472.1	467.7	464.0	461.1	458.1	455.1	452.1	455.1	458.1	461.1
117.5°	531.4	528.4	525.4	522.2	518.9	515.6	512.2	508.9	512.2	515.6	518.9
120°	570.1	567.0	563.8	560.9	558.3	555.7	553.0	550.4	553.0	555.7	558.3
122.5°	606.7	603.2	599.8	596.7	593.9	591.2	588.4	585.7	588.4	591.2	593.9
125°	657.8	654.5	651.2	648.4	646.1	643.9	641.5	639.3	641.5	643.9	646.1
127.5°	705.4	702.9	700.4	697.9	695.4	692.9	690.4	687.9	690.4	692.9	695.4
130°	736.1	734.2	732.3	729.9	727.1	724.3	721.5	718.8	721.5	724.3	727.1
132.5°	765.7	763.8	761.8	759.7	757.3	754.9	752.5	750.2	752.5	754.9	757.3
135°	807.6	806.0	804.4	802.3	799.4	796.7	793.8	791.1	793.8	796.7	799.4
137.5°	845.7	843.9	842.1	840.2	838.3	836.4	834.4	832.4	834.4	836.4	838.3
140°	870.6	868.7	866.8	865.0	863.7	862.3	860.9	859.5	860.9	862.3	863.7
142.5°	893.3	891.0	888.9	887.2	885.9	884.7	883.4	882.1	883.4	884.7	885.9
145°	924.3	921.4	918.3	917.0	917.1	917.3	917.5	917.7	917.5	917.3	917.1
147.5°	953.0	950.0	947.1	946.0	946.7	947.4	948.0	948.6	948.0	947.4	946.7
150°	970.3	967.5	964.7	963.9	965.1	966.3	967.6	968.8	967.6	966.3	965.1
152.5°	986.3	983.6	980.9	980.3	981.7	983.0	984.4	985.8	984.4	983.0	981.7
155°	1008.7	1006.5	1004.4	1004.2	1005.7	1007.3	1008.9	1010.5	1008.9	1007.3	1005.7
157.5°	1027.5	1026.1	1024.6	1024.5	1025.8	1027.2	1028.5	1029.8	1028.5	1027.2	1025.8
160°	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1040.1	1039.1	1037.9
162.5°	1048.7	1047.8	1046.9	1047.0	1048.0	1049.1	1050.2	1051.2	1050.2	1049.1	1048.0
165°	1061.3	1060.8	1060.2	1060.5	1061.5	1062.6	1063.7	1064.7	1063.7	1062.6	1061.5
167.5°	1071.3	1070.8	1070.3	1070.6	1071.6	1072.7	1073.8	1074.8	1073.8	1072.7	1071.6
170°	1076.6	1076.2	1075.9	1076.2	1077.3	1078.3	1079.3	1080.5	1079.3	1078.3	1077.3
172.5°	1080.4	1080.0	1079.7	1080.0	1081.1	1082.1	1083.1	1084.2	1083.1	1082.1	1081.1
175°	1084.4	1084.1	1083.7	1084.2	1085.4	1086.7	1087.9	1089.1	1087.9	1086.7	1085.4
177.5°	1085.8	1085.7	1085.5	1086.0	1086.9	1088.0	1088.9	1089.9	1088.9	1088.0	1086.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331447-935

CATALOG NUMBER: S122DIP-S1005D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1694.2	1691.0	1679.9	1674.1	1664.7	1655.6	1649.8	1652.5	1654.6	1653.6	1651.9
5°	1645.6	1633.1	1613.9	1597.4	1585.5	1563.8	1554.5	1550.0	1546.0	1541.4	1536.7
7.5°	1587.8	1568.1	1540.6	1517.1	1494.9	1467.8	1452.4	1443.2	1433.7	1423.2	1414.0
10°	1546.6	1518.9	1489.9	1456.9	1430.6	1406.1	1384.3	1369.8	1356.6	1344.1	1334.8
12.5°	1503.4	1471.4	1435.5	1390.4	1361.3	1326.4	1323.1	1297.5	1276.9	1269.1	1258.3
15°	1434.4	1389.6	1344.1	1290.6	1267.6	1235.9	1216.1	1196.3	1178.5	1165.9	1162.6
17.5°	1356.2	1298.1	1252.8	1214.4	1176.6	1144.2	1125.9	1110.1	1095.5	1078.7	1076.4
20°	1296.6	1246.4	1197.0	1163.3	1124.4	1091.3	1068.9	1053.1	1040.5	1030.6	1022.1
22.5°	1240.1	1185.2	1139.9	1103.1	1064.7	1038.0	1020.4	1005.0	994.6	983.7	975.6
25°	1149.4	1106.6	1057.0	1015.5	983.8	966.6	952.1	938.9	932.4	925.1	915.8
27.5°	1070.1	1022.4	976.1	943.9	916.1	901.0	890.6	881.7	875.5	871.2	866.0
30°	1014.2	966.0	929.7	898.0	874.9	859.8	853.2	847.9	840.6	838.0	835.3
32.5°	960.3	916.9	885.9	858.4	836.4	826.5	820.4	815.7	810.0	807.4	802.1
35°	884.2	847.9	817.5	802.4	784.5	775.9	771.4	764.7	759.5	756.8	756.1
37.5°	812.5	781.0	761.0	741.5	734.0	728.8	722.4	717.9	716.4	715.9	715.2
40°	766.0	740.3	722.6	706.7	703.4	695.4	690.2	686.2	686.2	686.9	686.2
42.5°	723.8	700.8	685.0	671.3	667.4	662.7	657.5	657.2	658.2	660.5	658.2
45°	659.9	643.3	632.1	625.5	618.3	613.6	612.9	614.9	615.6	616.3	618.3
47.5°	601.0	590.0	579.9	572.6	569.5	568.6	567.8	571.3	574.5	575.7	578.7
50°	566.1	553.6	545.0	540.4	537.8	536.4	537.8	541.7	544.3	547.7	549.7
52.5°	527.1	518.2	512.3	508.8	507.6	508.5	508.8	513.2	517.5	518.7	519.5
55°	473.1	466.5	465.2	459.3	461.8	461.2	464.5	467.2	471.1	475.1	475.7
57.5°	419.2	414.0	410.4	411.0	411.7	414.7	417.4	422.1	426.3	430.5	430.8
60°	383.4	380.7	378.8	378.8	380.0	384.0	387.3	391.9	394.6	397.2	399.2
62.5°	350.6	348.0	346.0	347.1	350.5	352.8	356.7	359.2	361.9	364.5	365.4
65°	298.9	297.6	299.5	300.9	301.5	304.9	309.4	311.4	314.1	315.4	320.0
67.5°	251.2	251.5	251.2	253.1	256.9	257.7	262.1	266.7	267.3	269.8	272.8
70°	219.0	220.4	221.7	223.0	226.4	227.6	230.9	232.9	235.6	237.5	239.5
72.5°	189.5	189.8	191.1	190.8	193.6	196.5	199.2	201.2	203.9	206.4	208.4
75°	145.9	145.9	147.1	147.8	151.1	154.4	153.8	155.1	157.7	160.3	161.7
77.5°	106.5	105.0	106.5	107.2	108.2	111.0	111.5	113.4	116.4	115.5	116.9
80°	81.2	79.2	81.2	81.8	81.8	85.2	85.2	86.4	88.4	86.4	88.4
82.5°	57.9	57.0	58.5	58.6	59.7	59.8	60.9	61.1	63.1	62.2	63.1
85°	29.0	28.4	29.0	28.4	29.0	29.7	29.7	29.0	29.0	30.4	28.4
87.5°	10.7	10.5	10.2	10.5	10.2	10.0	9.6	9.8	10.0	9.1	9.2
90°	8.4	10.2	11.5	12.9	14.3	15.8	16.6	17.5	18.3	19.2	19.8
92.5°	15.2	15.4	16.2	16.9	17.6	18.3	18.7	19.1	19.6	20.1	20.4
95°	28.1	25.7	27.0	28.2	29.4	30.7	31.5	32.4	33.3	34.2	34.5
97.5°	36.4	29.7	32.5	35.4	38.2	41.1	41.8	42.4	43.1	43.8	44.3
100°	43.4	33.0	35.9	38.9	41.8	44.9	46.2	47.6	49.0	50.5	51.3
102.5°	160.4	145.5	120.6	95.7	70.9	46.1	47.9	49.7	51.6	53.4	54.5
105°	260.0	238.8	191.1	143.4	95.7	48.0	49.9	51.8	53.7	55.6	57.0
107.5°	322.5	296.0	238.8	181.6	124.3	67.2	65.2	63.2	61.3	59.3	58.7
110°	363.0	339.6	289.1	238.6	188.1	137.6	120.1	102.6	85.2	67.7	59.3



TEST NUMBER: P331447-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	401.6	397.0	384.5	372.0	359.6	347.1	283.4	219.6	155.8	92.1	60.5
115°	464.0	467.7	472.1	476.5	480.8	485.2	404.2	323.4	242.5	161.5	114.8
117.5°	522.2	525.4	528.4	531.4	534.4	537.4	517.8	498.3	478.7	459.1	428.6
120°	560.9	563.8	567.0	570.1	573.3	576.4	578.5	580.6	582.7	584.8	574.0
122.5°	596.7	599.8	603.2	606.7	610.1	613.5	614.8	616.0	617.3	618.5	616.9
125°	648.4	651.2	654.5	657.8	661.2	664.4	665.7	666.9	668.1	669.3	670.2
127.5°	697.9	700.4	702.9	705.4	707.9	710.4	712.1	713.9	715.7	717.6	718.4
130°	729.9	732.3	734.2	736.1	738.0	739.9	741.8	743.8	745.7	747.6	748.6
132.5°	759.7	761.8	763.8	765.7	767.6	769.5	771.2	772.8	774.5	776.1	776.8
135°	802.3	804.4	806.0	807.6	809.2	810.7	812.4	814.2	816.0	817.7	818.4
137.5°	840.2	842.1	843.9	845.7	847.5	849.3	850.9	852.6	854.4	856.1	856.7
140°	865.0	866.8	868.7	870.6	872.5	874.4	876.0	877.5	879.2	880.7	881.1
142.5°	887.2	888.9	891.0	893.3	895.5	897.7	899.1	900.5	902.0	903.4	903.7
145°	917.0	918.3	921.4	924.3	927.3	930.2	931.4	932.7	933.9	935.1	935.3
147.5°	946.0	947.1	950.0	953.0	956.0	958.9	959.8	960.7	961.6	962.5	962.6
150°	963.9	964.7	967.5	970.3	973.1	975.9	976.9	977.9	979.0	980.1	980.2
152.5°	980.3	980.9	983.6	986.3	988.9	991.6	992.6	993.7	994.7	995.7	995.7
155°	1004.2	1004.4	1006.5	1008.7	1010.7	1012.8	1013.8	1014.9	1016.0	1017.0	1016.8
157.5°	1024.5	1024.6	1026.1	1027.5	1029.0	1030.4	1031.7	1032.8	1034.0	1035.2	1035.1
160°	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1042.2	1043.2	1044.3	1045.3	1045.3
162.5°	1047.0	1046.9	1047.8	1048.7	1049.6	1050.6	1051.7	1052.9	1054.1	1055.3	1055.2
165°	1060.5	1060.2	1060.8	1061.3	1061.9	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2
167.5°	1070.6	1070.3	1070.8	1071.3	1071.8	1072.3	1073.5	1074.7	1075.9	1077.2	1076.9
170°	1076.2	1075.9	1076.2	1076.6	1076.9	1077.3	1078.5	1079.8	1081.0	1082.2	1082.0
172.5°	1080.0	1079.7	1080.0	1080.4	1080.7	1081.1	1082.3	1083.5	1084.8	1086.0	1085.8
175°	1084.2	1083.7	1084.1	1084.4	1084.8	1085.1	1086.4	1087.6	1088.8	1090.0	1089.8
177.5°	1086.0	1085.5	1085.7	1085.8	1086.0	1086.1	1087.1	1088.0	1089.1	1090.0	1089.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1646.7	1645.6	1645.6	1640.9	1645.6	1645.6	1646.7	1651.9	1653.6	1654.6	1652.5
5°	1527.5	1525.5	1522.2	1525.5	1522.2	1525.5	1527.5	1536.7	1541.4	1546.0	1550.0
7.5°	1409.6	1401.7	1400.6	1392.8	1400.6	1401.7	1409.6	1414.0	1423.2	1433.7	1443.2
10°	1323.6	1318.4	1317.7	1305.1	1317.7	1318.4	1323.6	1334.8	1344.1	1356.6	1369.8
12.5°	1258.2	1245.5	1248.0	1240.7	1248.0	1245.5	1258.2	1258.3	1269.1	1276.9	1297.5
15°	1144.8	1144.8	1142.2	1130.9	1142.2	1144.8	1144.8	1162.6	1165.9	1178.5	1196.3
17.5°	1063.4	1062.0	1055.8	1058.9	1055.8	1062.0	1063.4	1076.4	1078.7	1095.5	1110.1
20°	1014.8	1010.9	1003.0	1003.0	1003.0	1010.9	1014.8	1022.1	1030.6	1040.5	1053.1
22.5°	968.9	968.6	960.2	962.9	960.2	968.6	968.9	975.6	983.7	994.6	1005.0
25°	915.2	909.9	905.9	907.9	905.9	909.9	915.2	915.8	925.1	932.4	938.9
27.5°	864.3	861.3	861.1	855.7	861.1	861.3	864.3	866.0	871.2	875.5	881.7
30°	834.7	828.1	829.4	826.1	829.4	828.1	834.7	835.3	838.0	840.6	847.9
32.5°	800.9	798.5	797.2	794.4	797.2	798.5	800.9	802.1	807.4	810.0	815.7
35°	754.8	755.5	752.2	753.5	752.2	755.5	754.8	756.1	756.8	759.5	764.7
37.5°	714.6	716.7	715.1	715.5	715.1	716.7	714.6	715.2	715.9	716.4	717.9
40°	688.2	688.2	688.2	690.2	688.2	688.2	688.2	686.2	686.9	686.2	686.2
42.5°	662.9	661.9	660.7	660.6	660.7	661.9	662.9	658.2	660.5	658.2	657.2
45°	619.6	621.6	622.2	618.9	622.2	621.6	619.6	618.3	616.3	615.6	614.9
47.5°	580.4	580.7	580.4	583.3	580.4	580.7	580.4	578.7	575.7	574.5	571.3
50°	552.9	551.6	552.9	551.6	552.9	551.6	552.9	549.7	547.7	544.3	541.7
52.5°	523.9	524.2	523.4	523.1	523.4	524.2	523.9	519.5	518.7	517.5	513.2
55°	478.4	479.7	479.1	479.1	479.1	479.7	478.4	475.7	475.1	471.1	467.2
57.5°	431.3	432.5	433.3	430.5	433.3	432.5	431.3	430.8	430.5	426.3	422.1
60°	398.6	401.8	401.1	399.8	401.1	401.8	398.6	399.2	397.2	394.6	391.9
62.5°	368.4	369.6	369.5	369.3	369.5	369.6	368.4	365.4	364.5	361.9	359.2
65°	322.0	323.3	321.3	323.3	321.3	323.3	322.0	320.0	315.4	314.1	311.4
67.5°	272.0	272.4	273.8	274.7	273.8	272.4	272.0	272.8	269.8	267.3	266.7
70°	240.8	240.2	242.2	244.2	242.2	240.2	240.8	239.5	237.5	235.6	232.9
72.5°	208.1	209.6	208.9	210.3	208.9	209.6	208.1	208.4	206.4	203.9	201.2
75°	160.3	162.3	161.7	163.7	161.7	162.3	160.3	161.7	160.3	157.7	155.1
77.5°	115.9	116.1	115.9	116.9	115.9	116.1	115.9	116.9	115.5	116.4	113.4
80°	88.4	87.1	85.8	88.4	85.8	87.1	88.4	88.4	86.4	88.4	86.4
82.5°	61.5	62.3	61.0	61.0	61.0	62.3	61.5	63.1	62.2	63.1	61.1
85°	28.4	27.7	26.4	26.4	26.4	27.7	28.4	28.4	30.4	29.0	29.0
87.5°	9.3	8.9	9.0	8.4	9.0	8.9	9.3	9.2	9.1	10.0	9.8
90°	20.1	20.5	20.9	21.3	20.9	20.5	20.1	19.8	19.2	18.3	17.5
92.5°	20.6	20.8	21.0	21.3	21.0	20.8	20.6	20.4	20.1	19.6	19.1
95°	34.4	34.2	34.0	33.8	34.0	34.2	34.4	34.5	34.2	33.3	32.4
97.5°	44.5	44.7	44.9	45.1	44.9	44.7	44.5	44.3	43.8	43.1	42.4
100°	51.7	52.0	52.3	52.7	52.3	52.0	51.7	51.3	50.5	49.0	47.6
102.5°	55.0	55.4	56.0	56.5	56.0	55.4	55.0	54.5	53.4	51.6	49.7
105°	57.7	58.4	59.1	59.8	59.1	58.4	57.7	57.0	55.6	53.7	51.8
107.5°	59.4	60.1	60.8	61.5	60.8	60.1	59.4	58.7	59.3	61.3	63.2
110°	60.0	60.7	61.4	62.2	61.4	60.7	60.0	59.3	67.7	85.2	102.6



TEST NUMBER: P331447-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	61.0	61.6	62.2	62.8	62.2	61.6	61.0	60.5	92.1	155.8	219.6
115°	102.2	89.6	77.1	64.5	77.1	89.6	102.2	114.8	161.5	242.5	323.4
117.5°	387.3	345.9	304.6	263.3	304.6	345.9	387.3	428.6	459.1	478.7	498.3
120°	550.4	526.8	503.3	479.7	503.3	526.8	550.4	574.0	584.8	582.7	580.6
122.5°	612.3	607.7	603.1	598.6	603.1	607.7	612.3	616.9	618.5	617.3	616.0
125°	670.7	671.2	671.8	672.4	671.8	671.2	670.7	670.2	669.3	668.1	666.9
127.5°	718.6	718.7	718.8	718.8	718.8	718.7	718.6	718.4	717.6	715.7	713.9
130°	748.4	748.1	748.0	747.8	748.0	748.1	748.4	748.6	747.6	745.7	743.8
132.5°	776.6	776.4	776.3	776.1	776.3	776.4	776.6	776.8	776.1	774.5	772.8
135°	818.0	817.7	817.3	817.0	817.3	817.7	818.0	818.4	817.7	816.0	814.2
137.5°	856.1	855.5	854.9	854.3	854.9	855.5	856.1	856.7	856.1	854.4	852.6
140°	880.2	879.3	878.5	877.5	878.5	879.3	880.2	881.1	880.7	879.2	877.5
142.5°	902.8	902.0	901.1	900.2	901.1	902.0	902.8	903.7	903.4	902.0	900.5
145°	934.4	933.6	932.7	931.9	932.7	933.6	934.4	935.3	935.1	933.9	932.7
147.5°	961.8	961.1	960.4	959.7	960.4	961.1	961.8	962.6	962.5	961.6	960.7
150°	979.3	978.4	977.5	976.6	977.5	978.4	979.3	980.2	980.1	979.0	977.9
152.5°	994.5	993.4	992.3	991.1	992.3	993.4	994.5	995.7	995.7	994.7	993.7
155°	1015.5	1014.0	1012.6	1011.2	1012.6	1014.0	1015.5	1016.8	1017.0	1016.0	1014.9
157.5°	1033.7	1032.3	1031.0	1029.7	1031.0	1032.3	1033.7	1035.1	1035.2	1034.0	1032.8
160°	1044.0	1042.8	1041.6	1040.3	1041.6	1042.8	1044.0	1045.3	1045.3	1044.3	1043.2
162.5°	1053.7	1052.1	1050.7	1049.1	1050.7	1052.1	1053.7	1055.2	1055.3	1054.1	1052.9
165°	1066.0	1064.8	1063.6	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2	1066.0	1064.8
167.5°	1075.4	1073.8	1072.3	1070.7	1072.3	1073.8	1075.4	1076.9	1077.2	1075.9	1074.7
170°	1080.5	1078.8	1077.3	1075.7	1077.3	1078.8	1080.5	1082.0	1082.2	1081.0	1079.8
172.5°	1084.2	1082.6	1081.1	1079.5	1081.1	1082.6	1084.2	1085.8	1086.0	1084.8	1083.5
175°	1088.0	1086.3	1084.5	1082.8	1084.5	1086.3	1088.0	1089.8	1090.0	1088.8	1087.6
177.5°	1088.6	1087.4	1086.1	1084.9	1086.1	1087.4	1088.6	1089.9	1090.0	1089.1	1088.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1649.8	1655.6	1664.7	1674.1	1679.9	1691.0	1694.2	1699.4	1704.2	1715.3	1726.9
5°	1554.5	1563.8	1585.5	1597.4	1613.9	1633.1	1645.6	1658.8	1673.4	1698.4	1721.5
7.5°	1452.4	1467.8	1494.9	1517.1	1540.6	1568.1	1587.8	1613.9	1635.6	1670.9	1704.7
10°	1384.3	1406.1	1430.6	1456.9	1489.9	1518.9	1546.6	1579.6	1606.0	1648.2	1687.8
12.5°	1323.1	1326.4	1361.3	1390.4	1435.5	1471.4	1503.4	1545.8	1571.7	1621.9	1663.5
15°	1216.1	1235.9	1267.6	1290.6	1344.1	1389.6	1434.4	1478.7	1508.4	1570.4	1625.1
17.5°	1125.9	1144.2	1176.6	1214.4	1252.8	1298.1	1356.2	1402.8	1443.2	1514.1	1578.8
20°	1068.9	1091.3	1124.4	1163.3	1197.0	1246.4	1296.6	1350.0	1393.5	1473.4	1549.3
22.5°	1020.4	1038.0	1064.7	1103.1	1139.9	1185.2	1240.1	1298.3	1343.9	1430.1	1507.0
25°	952.1	966.6	983.8	1015.5	1057.0	1106.6	1149.4	1213.4	1280.0	1360.6	1453.6
27.5°	890.6	901.0	916.1	943.9	976.1	1022.4	1070.1	1130.8	1197.8	1285.2	1383.4
30°	853.2	859.8	874.9	898.0	929.7	966.0	1014.2	1072.2	1140.8	1229.2	1326.9
32.5°	820.4	826.5	836.4	858.4	885.9	916.9	960.3	1018.4	1083.8	1170.7	1278.8
35°	771.4	775.9	784.5	802.4	817.5	847.9	884.2	936.9	998.3	1081.5	1193.6
37.5°	722.4	728.8	734.0	741.5	761.0	781.0	812.5	857.1	917.3	1001.3	1108.1
40°	690.2	695.4	703.4	706.7	722.6	740.3	766.0	806.9	867.7	944.2	1048.4
42.5°	657.5	662.7	667.4	671.3	685.0	700.8	723.8	759.0	812.8	887.2	990.4
45°	612.9	613.6	618.3	625.5	632.1	643.3	659.9	690.2	731.8	801.7	895.4
47.5°	567.8	568.6	569.5	572.6	579.9	590.0	601.0	625.7	662.9	718.7	809.9
50°	537.8	536.4	537.8	540.4	545.0	553.6	566.1	583.9	614.3	666.4	750.2
52.5°	508.8	508.5	507.6	508.8	512.3	518.2	527.1	542.3	569.5	617.3	691.1
55°	464.5	461.2	461.8	459.3	465.2	466.5	473.1	485.6	509.4	542.3	611.7
57.5°	417.4	414.7	411.7	411.0	410.4	414.0	419.2	429.1	447.4	476.3	532.4
60°	387.3	384.0	380.0	378.8	378.8	380.7	383.4	390.6	407.8	433.5	479.7
62.5°	356.7	352.8	350.5	347.1	346.0	348.0	350.6	355.8	368.2	392.4	432.2
65°	309.4	304.9	301.5	300.9	299.5	297.6	298.9	304.2	314.1	333.2	364.9
67.5°	262.1	257.7	256.9	253.1	251.2	251.5	251.2	255.7	261.7	278.2	301.8
70°	230.9	227.6	226.4	223.0	221.7	220.4	219.0	223.0	228.9	242.8	263.3
72.5°	199.2	196.5	193.6	190.8	191.1	189.8	189.5	191.9	196.7	209.6	225.2
75°	153.8	154.4	151.1	147.8	147.1	145.9	145.9	147.8	149.8	159.7	172.2
77.5°	111.5	111.0	108.2	107.2	106.5	105.0	106.5	107.8	108.8	115.5	124.7
80°	85.2	85.2	81.8	81.8	81.2	79.2	81.2	79.8	82.5	89.1	95.7
82.5°	60.9	59.8	59.7	58.6	58.5	57.0	57.9	59.2	60.3	64.8	68.8
85°	29.7	29.7	29.0	28.4	29.0	28.4	29.0	29.7	30.4	32.4	35.6
87.5°	9.6	10.0	10.2	10.5	10.2	10.5	10.7	10.8	11.5	11.6	11.8
90°	16.6	15.8	14.3	12.9	11.5	10.2	8.4	6.5	4.6	2.7	0.8
92.5°	18.7	18.3	17.6	16.9	16.2	15.4	15.2	15.3	15.5	15.7	15.8
95°	31.5	30.7	29.4	28.2	27.0	25.7	28.1	33.8	39.6	45.4	51.1
97.5°	41.8	41.1	38.2	35.4	32.5	29.7	36.4	52.7	69.0	85.2	101.4
100°	46.2	44.9	41.8	38.9	35.9	33.0	43.4	67.3	91.3	115.2	139.2
102.5°	47.9	46.1	40.9	35.7	32.6	30.4	43.4	67.3	91.3	115.2	139.2
105°	49.9	48.0	45.7	43.4	41.1	38.8	46.0	64.8	89.5	114.3	144.9
107.5°	65.2	67.2	64.3	61.6	58.8	56.0	63.5	81.2	106.0	130.8	160.6
110°	120.1	137.6	188.1	238.6	289.1	339.6	363.0	359.4	355.7	352.1	348.4



TEST NUMBER: P331447-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	283.4	347.1	359.6	372.0	384.5	397.0	401.6	398.4	395.1	391.8	388.6
115°	404.2	485.2	480.8	476.5	472.1	467.7	464.0	461.1	458.1	455.1	452.1
117.5°	517.8	537.4	534.4	531.4	528.4	525.4	522.2	518.9	515.6	512.2	508.9
120°	578.5	576.4	573.3	570.1	567.0	563.8	560.9	558.3	555.7	553.0	550.4
122.5°	614.8	613.5	610.1	606.7	603.2	599.8	596.7	593.9	591.2	588.4	585.7
125°	665.7	664.4	661.2	657.8	654.5	651.2	648.4	646.1	643.9	641.5	639.3
127.5°	712.1	710.4	707.9	705.4	702.9	700.4	697.9	695.4	692.9	690.4	687.9
130°	741.8	739.9	738.0	736.1	734.2	732.3	729.9	727.1	724.3	721.5	718.8
132.5°	771.2	769.5	767.6	765.7	763.8	761.8	759.7	757.3	754.9	752.5	750.2
135°	812.4	810.7	809.2	807.6	806.0	804.4	802.3	799.4	796.7	793.8	791.1
137.5°	850.9	849.3	847.5	845.7	843.9	842.1	840.2	838.3	836.4	834.4	832.4
140°	876.0	874.4	872.5	870.6	868.7	866.8	865.0	863.7	862.3	860.9	859.5
142.5°	899.1	897.7	895.5	893.3	891.0	888.9	887.2	885.9	884.7	883.4	882.1
145°	931.4	930.2	927.3	924.3	921.4	918.3	917.0	917.1	917.3	917.5	917.7
147.5°	959.8	958.9	956.0	953.0	950.0	947.1	946.0	946.7	947.4	948.0	948.6
150°	976.9	975.9	973.1	970.3	967.5	964.7	963.9	965.1	966.3	967.6	968.8
152.5°	992.6	991.6	988.9	986.3	983.6	980.9	980.3	981.7	983.0	984.4	985.8
155°	1013.8	1012.8	1010.7	1008.7	1006.5	1004.4	1004.2	1005.7	1007.3	1008.9	1010.5
157.5°	1031.7	1030.4	1029.0	1027.5	1026.1	1024.6	1024.5	1025.8	1027.2	1028.5	1029.8
160°	1042.2	1041.1	1040.1	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1
162.5°	1051.7	1050.6	1049.6	1048.7	1047.8	1046.9	1047.0	1048.0	1049.1	1050.2	1051.2
165°	1063.6	1062.4	1061.9	1061.3	1060.8	1060.2	1060.5	1061.5	1062.6	1063.7	1064.7
167.5°	1073.5	1072.3	1071.8	1071.3	1070.8	1070.3	1070.6	1071.6	1072.7	1073.8	1074.8
170°	1078.5	1077.3	1076.9	1076.6	1076.2	1075.9	1076.2	1077.3	1078.3	1079.3	1080.5
172.5°	1082.3	1081.1	1080.7	1080.4	1080.0	1079.7	1080.0	1081.1	1082.1	1083.1	1084.2
175°	1086.4	1085.1	1084.8	1084.4	1084.1	1083.7	1084.2	1085.4	1086.7	1087.9	1089.1
177.5°	1087.1	1086.1	1086.0	1085.8	1085.7	1085.5	1086.0	1086.9	1088.0	1088.9	1089.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1725.9	1728.5	1736.9	1745.4	1754.9	1757.6	1761.8	1758.1	1757.0	1767.0	1774.4
5°	1730.7	1742.6	1765.7	1786.8	1804.7	1817.1	1830.4	1835.7	1845.6	1859.4	1876.5
7.5°	1725.2	1748.3	1784.6	1815.3	1848.8	1873.0	1891.9	1908.0	1927.5	1953.8	1982.4
10°	1718.8	1749.9	1794.1	1831.7	1872.6	1903.6	1929.3	1954.4	1983.5	2019.7	2057.4
12.5°	1707.3	1744.0	1799.3	1843.8	1896.4	1926.8	1961.5	2015.7	2046.8	2097.3	2150.3
15°	1683.9	1724.8	1802.0	1856.7	1916.2	1974.2	2038.2	2089.6	2141.1	2170.8	2245.4
17.5°	1649.2	1709.3	1794.8	1858.6	1934.1	2025.5	2097.5	2155.8	2215.2	2263.3	2300.7
20°	1621.2	1686.5	1784.2	1860.7	1950.4	2048.7	2131.2	2190.6	2242.1	2282.3	2305.4
22.5°	1585.8	1668.0	1763.1	1852.8	1967.4	2064.6	2151.3	2198.0	2241.0	2260.7	2269.5
25°	1530.2	1629.1	1736.6	1846.2	1975.6	2078.5	2157.7	2186.0	2198.6	2179.4	2147.8
27.5°	1470.1	1580.5	1706.2	1833.8	1970.5	2069.5	2126.2	2121.8	2100.5	2038.6	1989.1
30°	1425.2	1546.6	1681.9	1821.1	1958.3	2054.7	2087.7	2054.7	2006.6	1937.2	1866.6
32.5°	1378.3	1503.9	1656.0	1803.2	1936.2	2020.9	2028.1	1971.3	1896.8	1818.0	1729.9
35°	1307.1	1443.0	1607.3	1763.1	1889.1	1942.5	1910.9	1810.6	1722.2	1614.6	1494.5
37.5°	1226.8	1376.8	1541.6	1704.3	1818.5	1832.5	1753.9	1648.2	1523.5	1397.1	1255.8
40°	1166.6	1325.6	1495.2	1659.5	1760.4	1745.9	1645.6	1529.5	1381.0	1226.6	1095.3
42.5°	1112.8	1271.8	1444.5	1605.6	1686.5	1646.7	1529.5	1387.0	1227.4	1082.0	961.7
45°	1019.4	1183.1	1359.9	1515.6	1561.9	1489.9	1334.8	1176.5	1019.4	898.0	803.1
47.5°	928.9	1090.7	1265.8	1402.7	1419.0	1322.3	1152.9	989.9	854.9	756.0	689.0
50°	862.4	1024.7	1198.3	1320.3	1315.0	1198.3	1024.1	869.0	756.1	676.3	631.5
52.5°	802.7	956.1	1122.7	1233.7	1205.7	1078.4	912.1	774.5	681.7	619.3	578.7
55°	710.0	851.9	1010.2	1099.2	1047.8	906.6	766.0	655.2	586.6	539.8	508.1
57.5°	617.9	750.9	886.4	941.3	884.4	754.1	636.9	556.5	504.9	470.2	449.6
60°	560.9	677.0	797.7	845.2	777.3	661.2	568.8	496.9	455.3	426.9	408.5
62.5°	503.9	607.9	721.7	747.6	685.4	587.3	505.4	445.7	411.5	386.2	368.9
65°	426.3	511.3	597.8	614.9	557.6	481.6	417.0	378.1	347.8	329.2	315.4
67.5°	349.6	417.9	479.1	493.0	442.7	390.1	343.4	309.4	288.9	273.5	261.8
70°	304.2	358.3	408.5	419.7	379.4	332.5	297.0	269.8	251.4	238.2	227.0
72.5°	256.1	301.3	342.9	350.5	317.6	281.9	252.6	231.4	215.0	206.6	195.9
75°	196.0	222.4	254.7	256.7	234.9	213.1	190.7	176.8	168.2	157.7	152.4
77.5°	138.3	159.0	177.5	181.1	168.2	153.3	140.8	129.8	122.6	117.7	112.8
80°	105.6	122.1	130.0	134.6	125.4	114.8	107.5	100.3	95.7	92.4	89.1
82.5°	75.5	85.7	93.1	96.6	91.6	85.2	78.0	73.9	70.3	67.6	66.4
85°	38.2	42.9	47.5	48.8	47.5	44.9	40.9	40.9	38.9	38.2	38.2
87.5°	13.8	16.3	16.6	18.6	17.8	18.2	18.4	18.2	17.9	17.6	17.2
90°	2.7	4.6	6.5	8.4	10.2	11.5	12.9	14.3	15.8	16.6	17.5
92.5°	15.7	15.5	15.3	15.2	15.4	16.2	16.9	17.6	18.3	18.7	19.1
95°	45.4	39.6	33.8	28.1	25.7	27.0	28.2	29.4	30.7	31.5	32.4
97.5°	85.2	69.0	52.7	36.4	29.7	32.5	35.4	38.2	41.1	41.8	42.4
100°	115.2	91.3	67.3	43.4	33.0	35.9	38.9	41.8	44.9	46.2	47.6
102.5°	175.6	170.6	165.5	160.4	145.5	120.6	95.7	70.9	46.1	47.9	49.7
105°	244.3	249.5	254.8	260.0	238.8	191.1	143.4	95.7	48.0	49.9	51.8
107.5°	309.8	314.0	318.2	322.5	296.0	238.8	181.6	124.3	67.2	65.2	63.2
110°	352.1	355.7	359.4	363.0	339.6	289.1	238.6	188.1	137.6	120.1	102.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	391.8	395.1	398.4	401.6	397.0	384.5	372.0	359.6	347.1	283.4	219.6
115°	455.1	458.1	461.1	464.0	467.7	472.1	476.5	480.8	485.2	404.2	323.4
117.5°	512.2	515.6	518.9	522.2	525.4	528.4	531.4	534.4	537.4	517.8	498.3
120°	553.0	555.7	558.3	560.9	563.8	567.0	570.1	573.3	576.4	578.5	580.6
122.5°	588.4	591.2	593.9	596.7	599.8	603.2	606.7	610.1	613.5	614.8	616.0
125°	641.5	643.9	646.1	648.4	651.2	654.5	657.8	661.2	664.4	665.7	666.9
127.5°	690.4	692.9	695.4	697.9	700.4	702.9	705.4	707.9	710.4	712.1	713.9
130°	721.5	724.3	727.1	729.9	732.3	734.2	736.1	738.0	739.9	741.8	743.8
132.5°	752.5	754.9	757.3	759.7	761.8	763.8	765.7	767.6	769.5	771.2	772.8
135°	793.8	796.7	799.4	802.3	804.4	806.0	807.6	809.2	810.7	812.4	814.2
137.5°	834.4	836.4	838.3	840.2	842.1	843.9	845.7	847.5	849.3	850.9	852.6
140°	860.9	862.3	863.7	865.0	866.8	868.7	870.6	872.5	874.4	876.0	877.5
142.5°	883.4	884.7	885.9	887.2	888.9	891.0	893.3	895.5	897.7	899.1	900.5
145°	917.5	917.3	917.1	917.0	918.3	921.4	924.3	927.3	930.2	931.4	932.7
147.5°	948.0	947.4	946.7	946.0	947.1	950.0	953.0	956.0	958.9	959.8	960.7
150°	967.6	966.3	965.1	963.9	964.7	967.5	970.3	973.1	975.9	976.9	977.9
152.5°	984.4	983.0	981.7	980.3	980.9	983.6	986.3	988.9	991.6	992.6	993.7
155°	1008.9	1007.3	1005.7	1004.2	1004.4	1006.5	1008.7	1010.7	1012.8	1013.8	1014.9
157.5°	1028.5	1027.2	1025.8	1024.5	1024.6	1026.1	1027.5	1029.0	1030.4	1031.7	1032.8
160°	1040.1	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1042.2	1043.2
162.5°	1050.2	1049.1	1048.0	1047.0	1046.9	1047.8	1048.7	1049.6	1050.6	1051.7	1052.9
165°	1063.7	1062.6	1061.5	1060.5	1060.2	1060.8	1061.3	1061.9	1062.4	1063.6	1064.8
167.5°	1073.8	1072.7	1071.6	1070.6	1070.3	1070.8	1071.3	1071.8	1072.3	1073.5	1074.7
170°	1079.3	1078.3	1077.3	1076.2	1075.9	1076.2	1076.6	1076.9	1077.3	1078.5	1079.8
172.5°	1083.1	1082.1	1081.1	1080.0	1079.7	1080.0	1080.4	1080.7	1081.1	1082.3	1083.5
175°	1087.9	1086.7	1085.4	1084.2	1083.7	1084.1	1084.4	1084.8	1085.1	1086.4	1087.6
177.5°	1088.9	1088.0	1086.9	1086.0	1085.5	1085.7	1085.8	1086.0	1086.1	1087.1	1088.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1780.7	1788.1	1788.1	1789.2	1797.6	1796.6	1796.0
5°	1895.1	1906.3	1907.5	1919.4	1927.3	1924.7	1917.4
7.5°	2002.9	2023.7	2039.5	2048.4	2058.8	2065.3	2062.4
10°	2088.4	2118.7	2137.2	2149.7	2164.9	2176.1	2172.1
12.5°	2165.9	2202.1	2227.5	2248.9	2250.9	2265.3	2255.6
15°	2287.0	2325.2	2329.2	2345.0	2357.6	2356.2	2356.9
17.5°	2326.9	2339.3	2341.7	2342.1	2342.3	2337.6	2327.6
20°	2312.7	2308.1	2296.9	2288.3	2273.1	2271.1	2258.0
22.5°	2245.1	2230.5	2202.4	2183.8	2160.2	2154.0	2150.3
25°	2112.1	2079.7	2034.9	1992.0	1980.1	1957.1	1963.7
27.5°	1929.6	1879.2	1830.7	1795.8	1764.3	1729.7	1739.6
30°	1801.3	1744.6	1675.9	1623.2	1589.5	1556.5	1550.6
32.5°	1648.2	1565.1	1488.6	1442.1	1390.5	1369.7	1346.9
35°	1384.3	1303.1	1227.3	1161.9	1124.4	1095.3	1068.9
37.5°	1146.9	1053.5	992.2	939.4	912.1	895.5	899.7
40°	999.6	917.8	873.0	832.7	807.6	795.7	798.4
42.5°	880.4	819.1	782.1	754.6	736.9	730.3	728.8
45°	744.9	710.7	680.3	664.4	655.9	648.6	644.0
47.5°	652.6	624.6	607.4	598.1	590.6	583.2	583.0
50°	597.1	578.7	566.8	556.9	551.0	545.7	550.3
52.5°	554.9	538.0	526.2	517.3	515.1	510.3	510.1
55°	492.2	479.1	470.5	462.5	458.6	455.9	452.6
57.5°	435.2	422.7	414.7	409.7	402.3	399.6	398.6
60°	394.6	384.7	376.8	370.1	366.9	361.6	361.6
62.5°	357.1	347.2	339.8	334.8	329.4	327.3	327.8
65°	302.9	295.0	287.7	282.4	281.1	277.2	278.4
67.5°	253.0	247.7	240.0	237.1	234.6	232.6	230.9
70°	219.7	214.5	210.5	206.6	204.6	204.6	204.6
72.5°	191.7	185.4	183.0	178.1	179.2	177.1	175.0
75°	148.4	144.5	142.5	140.5	137.2	137.2	137.2
77.5°	109.3	108.1	105.7	103.6	102.8	102.1	102.4
80°	84.5	83.8	82.5	82.5	81.2	80.5	79.2
82.5°	64.9	63.2	62.4	61.9	61.6	61.5	61.2
85°	36.9	35.6	35.6	36.2	35.0	35.0	35.6
87.5°	17.9	18.1	17.7	17.7	18.3	17.9	18.0
90°	18.3	19.2	19.8	20.1	20.5	20.9	21.3
92.5°	19.6	20.1	20.4	20.6	20.8	21.0	21.3
95°	33.3	34.2	34.5	34.4	34.2	34.0	33.8
97.5°	43.1	43.8	44.3	44.5	44.7	44.9	45.1
100°	49.0	50.5	51.3	51.7	52.0	52.3	52.7
102.5°	51.6	53.4	54.5	55.0	55.4	56.0	56.5
105°	53.7	55.6	57.0	57.7	58.4	59.1	59.8
107.5°	61.3	59.3	58.7	59.4	60.1	60.8	61.5
110°	85.2	67.7	59.3	60.0	60.7	61.4	62.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	155.8	92.1	60.5	61.0	61.6	62.2	62.8
115°	242.5	161.5	114.8	102.2	89.6	77.1	64.5
117.5°	478.7	459.1	428.6	387.3	345.9	304.6	263.3
120°	582.7	584.8	574.0	550.4	526.8	503.3	479.7
122.5°	617.3	618.5	616.9	612.3	607.7	603.1	598.6
125°	668.1	669.3	670.2	670.7	671.2	671.8	672.4
127.5°	715.7	717.6	718.4	718.6	718.7	718.8	718.8
130°	745.7	747.6	748.6	748.4	748.1	748.0	747.8
132.5°	774.5	776.1	776.8	776.6	776.4	776.3	776.1
135°	816.0	817.7	818.4	818.0	817.7	817.3	817.0
137.5°	854.4	856.1	856.7	856.1	855.5	854.9	854.3
140°	879.2	880.7	881.1	880.2	879.3	878.5	877.5
142.5°	902.0	903.4	903.7	902.8	902.0	901.1	900.2
145°	933.9	935.1	935.3	934.4	933.6	932.7	931.9
147.5°	961.6	962.5	962.6	961.8	961.1	960.4	959.7
150°	979.0	980.1	980.2	979.3	978.4	977.5	976.6
152.5°	994.7	995.7	995.7	994.5	993.4	992.3	991.1
155°	1016.0	1017.0	1016.8	1015.5	1014.0	1012.6	1011.2
157.5°	1034.0	1035.2	1035.1	1033.7	1032.3	1031.0	1029.7
160°	1044.3	1045.3	1045.3	1044.0	1042.8	1041.6	1040.3
162.5°	1054.1	1055.3	1055.2	1053.7	1052.1	1050.7	1049.1
165°	1066.0	1067.2	1067.2	1066.0	1064.8	1063.6	1062.4
167.5°	1075.9	1077.2	1076.9	1075.4	1073.8	1072.3	1070.7
170°	1081.0	1082.2	1082.0	1080.5	1078.8	1077.3	1075.7
172.5°	1084.8	1086.0	1085.8	1084.2	1082.6	1081.1	1079.5
175°	1088.8	1090.0	1089.8	1088.0	1086.3	1084.5	1082.8
177.5°	1089.1	1090.0	1089.9	1088.6	1087.4	1086.1	1084.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8

(END OF REPORT)