

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: P331597-930

Luminaire Tested: **S122DIW-S1005D970U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331597-930  
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: S122DIW-S1005D970U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

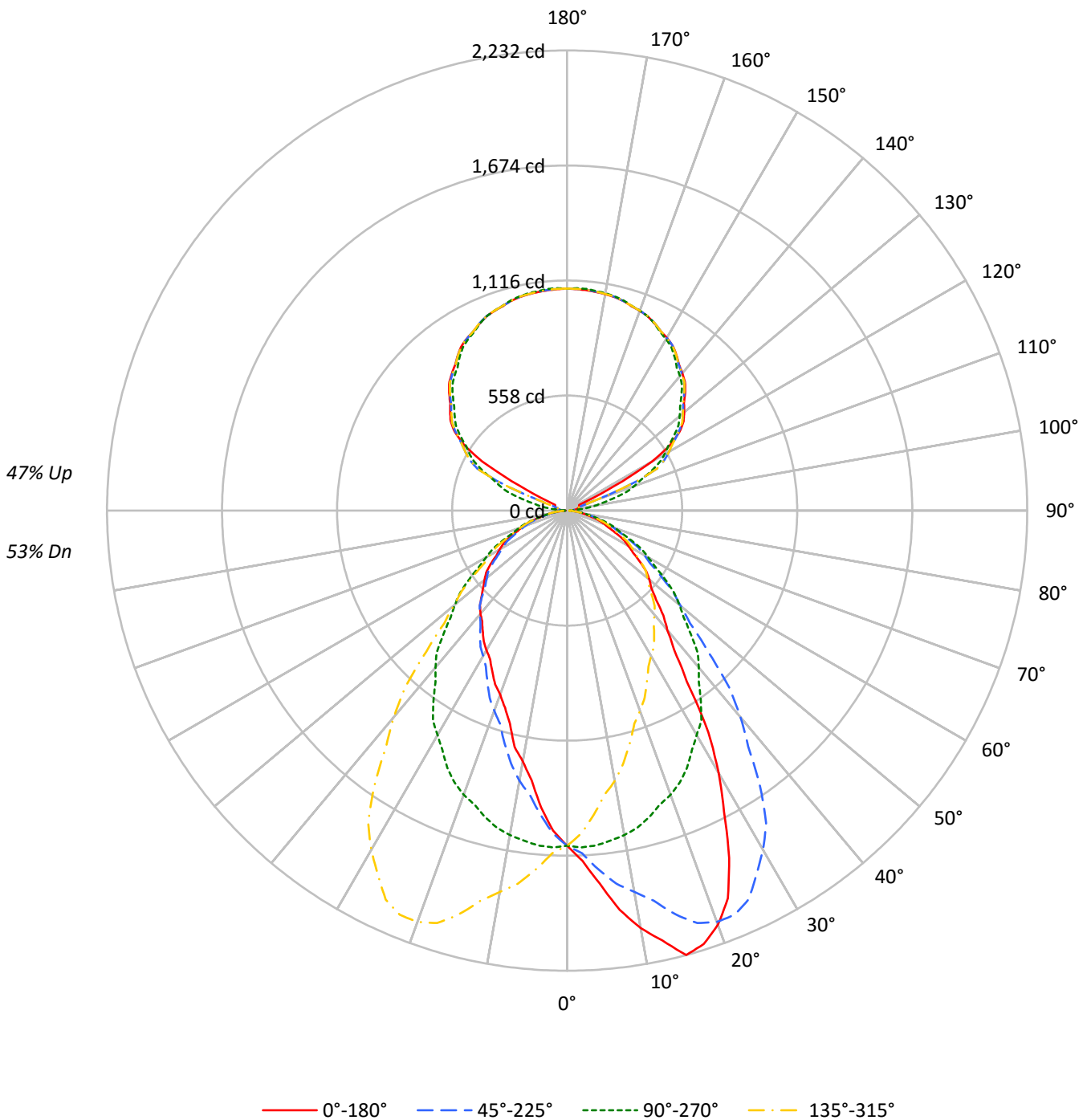
Lumens per Lamp: N/A  
Luminaire Lumens: 6744.5 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (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	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	55	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	26248	26248	26248	26248
5°	29428	26420	23412	26420
10°	33721	26202	20261	26202
15°	37305	25723	17901	25723
20°	36737	25206	16318	25206
25°	33127	24522	15316	24522
30°	27374	23426	14585	23426
35°	19951	22277	14063	22277
40°	15934	20925	13774	20925
45°	13924	19358	13381	19358
50°	13089	17844	13122	17844
55°	12065	16304	12769	16304
60°	11057	14667	12226	14667
65°	10074	13200	11694	13200
70°	9144	11769	10914	11769
75°	8110	10175	9669	10175
80°	6974	8424	7782	8424
85°	6262	6262	4631	6262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	2.3
10°-20°	450.1	6.7
20°-30°	653.3	9.7
30°-40°	689.3	10.2
40°-50°	610.4	9.0
50°-60°	487.1	7.2
60°-70°	331.1	4.9
70°-80°	169.7	2.5
80°-90°	43.6	0.6
90°-100°	35.9	0.5
100°-110°	131.7	2.0
110°-120°	352.0	5.2
120°-130°	581.1	8.6
130°-140°	618.0	9.2
140°-150°	574.4	8.5
150°-160°	461.8	6.8
160°-170°	297.6	4.4
170°-180°	102.4	1.5
0°-30°	1258.2	18.7
0°-40°	1947.5	28.9
0°-60°	3045.0	45.1
0°-90°	3589.4	53.2
90°-120°	519.7	7.7
90°-150°	2293.2	34.0
90°-180°	3155.0	46.8
0°-180°	6744.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1816	1630	1444	1630	1816	181
15°	2232	1539	1071	1539	2232	616
25°	1860	1376	860	1376	1860	840
35°	1012	1130	714	1130	1012	658
45°	610	848	586	848	610	480
55°	429	579	454	579	429	384
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	38
90°	21	1	21	1	21	11
95°	34	51	34	51	34	31
105°	59	237	59	237	59	62
115°	64	448	64	448	64	160
125°	666	633	666	633	666	576
135°	809	784	809	784	809	624
145°	923	909	923	909	923	577
155°	1002	1001	1002	1001	1002	462
165°	1052	1055	1052	1055	1052	297
175°	1073	1079	1073	1079	1073	102
180°	1077	1077	1077	1077	1077	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1700.7	1701.2	1702.2	1694.2	1693.2	1693.2	1686.2	1680.3	1673.2	1663.7	1664.8
5°	1815.7	1822.5	1825.0	1817.5	1806.3	1805.1	1794.5	1776.9	1760.7	1747.6	1738.2
7.5°	1952.9	1955.7	1949.5	1939.7	1931.3	1916.3	1896.5	1877.1	1850.1	1825.2	1806.7
10°	2056.8	2060.6	2050.0	2035.6	2023.7	2006.3	1977.5	1948.2	1912.5	1878.2	1850.6
12.5°	2135.8	2145.1	2131.4	2129.6	2109.3	2085.2	2051.0	2036.1	1986.0	1938.1	1908.7
15°	2231.8	2231.1	2232.5	2220.5	2205.5	2201.8	2165.6	2126.2	2055.6	2027.5	1978.7
17.5°	2204.1	2213.5	2217.9	2217.8	2217.5	2215.1	2203.4	2178.6	2143.2	2097.6	2041.3
20°	2138.1	2150.6	2152.5	2166.8	2175.0	2185.6	2190.0	2183.0	2161.2	2123.1	2074.4
22.5°	2036.1	2039.6	2045.5	2067.8	2085.5	2112.1	2126.0	2149.0	2140.7	2122.1	2081.4
25°	1859.5	1853.2	1875.0	1886.3	1926.9	1969.4	2000.0	2033.8	2063.8	2081.9	2070.0
27.5°	1647.2	1637.9	1670.6	1700.5	1733.5	1779.5	1827.2	1883.5	1930.4	1989.0	2009.1
30°	1468.3	1473.9	1505.1	1537.0	1587.0	1652.0	1705.7	1767.6	1834.4	1900.1	1945.6
32.5°	1275.4	1297.0	1316.7	1365.5	1409.6	1482.1	1560.7	1638.1	1721.5	1796.1	1866.7
35°	1012.2	1037.1	1064.7	1100.2	1162.1	1234.0	1310.8	1415.2	1528.9	1630.8	1714.5
37.5°	852.0	848.0	863.7	889.5	939.6	997.6	1086.1	1189.1	1323.0	1442.7	1560.7
40°	756.0	753.5	764.8	788.5	826.6	869.1	946.6	1037.1	1161.5	1307.7	1448.3
42.5°	690.1	691.5	697.8	714.5	740.6	775.6	833.6	910.7	1024.6	1162.3	1313.4
45°	609.8	614.2	621.1	629.2	644.2	672.9	705.4	760.4	850.4	965.3	1114.0
47.5°	552.0	552.2	559.2	566.3	575.2	591.4	617.9	652.4	715.9	809.5	937.3
50°	521.1	516.7	521.7	527.3	536.7	548.0	565.4	597.9	640.4	716.0	822.9
52.5°	483.1	483.2	487.7	489.8	498.2	509.5	525.5	548.0	586.4	645.6	733.4
55°	428.6	431.7	434.2	438.0	445.5	453.6	466.1	481.1	511.1	555.5	620.4
57.5°	377.4	378.4	380.9	388.0	392.7	400.2	412.1	425.7	445.2	478.1	526.9
60°	342.4	342.4	347.4	350.5	356.8	364.3	373.7	386.8	404.2	431.1	470.5
62.5°	310.4	309.9	311.9	317.0	321.8	328.8	338.1	349.3	365.7	389.6	422.0
65°	263.7	262.4	266.2	267.4	272.4	279.3	286.8	298.6	311.8	329.3	358.0
67.5°	218.7	220.2	222.2	224.5	227.3	234.6	239.5	247.9	259.0	273.5	293.0
70°	193.7	193.7	193.7	195.6	199.3	203.1	208.1	214.9	225.6	238.1	255.5
72.5°	165.7	167.7	169.7	168.6	173.3	175.5	181.6	185.5	195.6	203.6	219.1
75°	130.0	130.0	130.0	133.1	134.9	136.8	140.6	144.3	149.4	159.3	167.5
77.5°	96.9	96.7	97.3	98.1	100.1	102.3	103.5	106.8	111.5	116.1	122.9
80°	75.0	76.2	76.9	78.1	78.1	79.3	80.0	84.4	87.5	90.6	95.0
82.5°	58.0	58.2	58.4	58.6	59.1	59.8	61.5	62.9	64.0	66.6	70.0
85°	33.8	33.1	33.1	34.3	33.8	33.8	35.0	36.2	36.2	36.9	38.7
87.5°	17.2	17.1	17.5	17.0	17.0	17.3	17.1	16.5	16.8	17.1	17.4
90°	21.0	20.7	20.3	20.0	19.6	19.1	18.2	17.3	16.5	15.6	14.2
92.5°	21.0	20.8	20.6	20.4	20.2	19.9	19.4	19.0	18.5	18.1	17.4
95°	33.5	33.7	33.8	34.0	34.2	33.8	33.0	32.1	31.2	30.4	29.2
97.5°	44.7	44.5	44.3	44.1	43.9	43.5	42.7	42.1	41.3	40.7	37.8
100°	52.2	51.9	51.5	51.1	50.8	50.0	48.6	47.2	45.8	44.4	41.5
102.5°	55.9	55.4	55.0	54.5	54.0	52.8	51.0	49.2	47.5	45.7	40.3
105°	59.2	58.5	57.8	57.2	56.4	55.1	53.2	51.4	49.4	47.5	44.8
107.5°	60.9	60.3	59.5	58.9	58.1	58.8	60.7	62.6	64.6	66.5	123.2
110°	61.6	60.8	60.2	59.4	58.8	67.1	84.4	101.7	119.0	136.3	186.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	62.2	61.6	61.1	60.5	59.9	91.2	154.4	217.5	280.7	343.9	356.2
115°	63.9	76.3	88.8	101.3	113.7	160.0	240.2	320.3	400.5	480.7	476.4
117.5°	260.8	301.8	342.8	383.7	424.7	454.9	474.3	493.6	513.0	532.4	529.5
120°	475.2	498.6	522.0	545.4	568.7	579.4	577.2	575.2	573.2	571.0	567.9
122.5°	593.0	597.5	602.1	606.6	611.1	612.8	611.6	610.3	609.0	607.8	604.4
125°	666.1	665.5	665.0	664.6	664.0	663.2	661.9	660.7	659.5	658.3	655.0
127.5°	712.2	712.1	712.0	711.9	711.8	710.9	709.1	707.4	705.6	703.8	701.3
130°	740.9	741.0	741.2	741.4	741.6	740.7	738.8	736.9	735.0	733.1	731.2
132.5°	768.9	769.1	769.2	769.4	769.6	768.9	767.3	765.6	764.0	762.4	760.4
135°	809.4	809.8	810.1	810.5	810.8	810.1	808.4	806.7	804.9	803.2	801.6
137.5°	846.4	846.9	847.5	848.2	848.7	848.2	846.4	844.7	843.1	841.4	839.6
140°	869.4	870.3	871.1	872.0	872.9	872.5	871.0	869.4	867.9	866.3	864.4
142.5°	891.9	892.8	893.6	894.5	895.3	895.0	893.6	892.2	890.8	889.3	887.2
145°	923.2	924.1	924.9	925.8	926.7	926.4	925.3	924.1	922.8	921.6	918.7
147.5°	950.7	951.5	952.2	952.9	953.7	953.6	952.7	951.8	950.9	950.0	947.1
150°	967.6	968.4	969.3	970.2	971.0	970.9	969.9	968.9	967.8	966.8	964.0
152.5°	981.9	983.1	984.2	985.4	986.5	986.5	985.5	984.5	983.4	982.4	979.7
155°	1001.8	1003.2	1004.6	1006.0	1007.4	1007.5	1006.5	1005.5	1004.4	1003.4	1001.4
157.5°	1020.1	1021.4	1022.8	1024.1	1025.5	1025.6	1024.4	1023.2	1022.1	1020.8	1019.4
160°	1030.7	1031.9	1033.1	1034.3	1035.5	1035.6	1034.5	1033.6	1032.5	1031.4	1030.5
162.5°	1039.4	1040.9	1042.4	1043.8	1045.4	1045.5	1044.3	1043.2	1042.0	1040.8	1039.9
165°	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4	1056.1	1054.9	1053.7	1052.5	1052.0
167.5°	1060.8	1062.3	1063.9	1065.4	1067.0	1067.1	1065.9	1064.7	1063.5	1062.3	1061.8
170°	1065.8	1067.3	1068.9	1070.4	1072.0	1072.1	1070.9	1069.8	1068.5	1067.3	1067.0
172.5°	1069.5	1071.1	1072.6	1074.2	1075.7	1075.9	1074.6	1073.4	1072.3	1071.1	1070.7
175°	1072.8	1074.5	1076.2	1077.9	1079.7	1079.9	1078.7	1077.5	1076.3	1075.1	1074.7
177.5°	1074.8	1076.0	1077.3	1078.5	1079.8	1079.9	1078.9	1078.0	1077.0	1076.0	1075.9
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1668.3	1664.3	1661.7	1652.8	1644.7	1636.7	1634.3	1635.2	1624.2	1613.7	1609.2
5°	1733.2	1720.7	1708.9	1692.0	1672.0	1650.1	1638.8	1630.1	1608.3	1584.5	1570.8
7.5°	1791.5	1773.6	1750.7	1719.0	1689.9	1655.5	1633.6	1614.2	1582.3	1548.7	1528.3
10°	1826.9	1802.5	1773.2	1734.5	1698.8	1657.0	1627.6	1598.2	1560.7	1520.8	1495.7
12.5°	1857.4	1824.6	1795.7	1746.0	1703.8	1651.5	1616.7	1575.2	1535.8	1488.2	1463.8
15°	1930.1	1869.4	1814.4	1758.2	1706.3	1633.2	1594.5	1538.9	1487.0	1428.3	1400.2
17.5°	1986.2	1918.0	1831.4	1760.0	1699.5	1618.5	1561.6	1495.0	1433.7	1366.6	1328.4
20°	2018.1	1940.0	1846.9	1761.9	1689.5	1597.0	1535.1	1467.0	1395.2	1319.6	1278.4
22.5°	2037.1	1955.0	1863.0	1754.4	1669.5	1579.5	1501.6	1427.0	1354.2	1272.6	1229.4
25°	2043.1	1968.1	1870.7	1748.2	1644.5	1542.6	1448.9	1376.5	1288.3	1212.1	1149.0
27.5°	2013.4	1959.7	1865.9	1736.4	1615.6	1496.6	1392.0	1309.9	1217.0	1134.2	1070.8
30°	1976.9	1945.6	1854.4	1724.4	1592.6	1464.5	1349.6	1256.5	1164.0	1080.3	1015.3
32.5°	1920.4	1913.7	1833.4	1707.5	1568.1	1424.1	1305.1	1211.0	1108.6	1026.3	964.3
35°	1809.5	1839.4	1788.8	1669.5	1522.0	1366.4	1237.7	1130.2	1024.1	945.3	887.2
37.5°	1660.8	1735.2	1722.0	1613.9	1459.8	1303.7	1161.6	1049.3	948.1	868.6	811.6
40°	1558.3	1653.3	1667.0	1571.4	1415.8	1255.2	1104.6	992.8	894.1	821.7	764.1
42.5°	1448.3	1559.3	1597.0	1520.4	1367.8	1204.3	1053.7	937.8	840.1	769.6	718.7
45°	1264.0	1410.8	1479.0	1435.2	1287.8	1120.3	965.3	847.8	759.1	692.9	653.5
47.5°	1091.7	1252.1	1343.7	1328.2	1198.7	1032.8	879.6	766.9	680.5	627.7	592.5
50°	969.7	1134.7	1245.2	1250.3	1134.7	970.3	816.6	710.4	631.0	581.7	552.9
52.5°	863.7	1021.2	1141.7	1168.2	1063.2	905.3	760.1	654.4	584.6	539.2	513.5
55°	725.4	858.5	992.2	1040.9	956.6	806.7	672.3	579.2	513.6	482.3	459.8
57.5°	603.1	714.0	837.5	891.4	839.4	711.0	585.1	504.2	451.0	423.6	406.3
60°	538.6	626.1	736.1	800.4	755.4	641.1	531.1	454.2	410.5	386.1	369.9
62.5°	478.6	556.1	649.1	707.9	683.4	575.6	477.1	409.3	371.5	348.6	336.9
65°	394.8	456.1	528.0	582.3	566.1	484.2	403.7	345.5	315.5	297.4	288.0
67.5°	325.1	369.4	419.2	466.8	453.7	395.7	331.0	285.8	263.4	247.8	242.1
70°	281.2	314.9	359.3	397.4	386.8	339.2	288.0	249.3	229.9	216.8	211.2
72.5°	239.2	266.9	300.8	331.9	324.7	285.3	242.6	213.3	198.4	186.3	181.7
75°	180.6	201.8	222.4	243.0	241.2	210.6	185.6	163.1	151.2	141.9	140.0
77.5°	133.3	145.2	159.2	171.5	168.0	150.6	130.9	118.1	109.3	103.1	102.1
80°	101.8	108.7	118.7	127.4	123.1	115.6	100.0	90.6	84.4	78.1	75.6
82.5°	73.9	80.7	86.7	91.5	88.1	81.1	71.5	65.1	61.4	57.1	56.1
85°	38.7	42.5	45.0	46.2	45.0	40.6	36.2	33.8	30.7	28.8	28.1
87.5°	17.5	17.3	17.0	17.7	15.8	15.4	13.0	11.2	11.0	10.9	10.3
90°	12.8	11.4	10.0	8.4	6.5	4.6	2.7	0.8	2.7	4.6	6.5
92.5°	16.7	16.0	15.3	15.1	15.2	15.4	15.6	15.7	15.6	15.4	15.2
95°	28.0	26.7	25.5	27.8	33.5	39.2	44.9	50.6	44.9	39.2	33.5
97.5°	35.1	32.3	29.4	36.1	52.2	68.3	84.4	100.5	84.4	68.3	52.2
100°	38.5	35.5	32.6	43.0	66.8	90.4	114.1	137.9	114.1	90.4	66.8
102.5°	94.9	119.5	144.1	158.9	164.0	169.0	174.0	179.0	174.0	169.0	164.0
105°	142.0	189.3	236.6	257.6	252.4	247.2	242.1	236.8	242.1	247.2	252.4
107.5°	179.9	236.6	293.3	319.5	315.3	311.1	307.0	302.7	307.0	311.1	315.3
110°	236.4	286.4	336.5	359.6	356.0	352.4	348.8	345.1	348.8	352.4	356.0





TEST NUMBER: P331597-930

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	368.6	381.0	393.3	397.9	394.7	391.4	388.2	385.0	388.2	391.4	394.7
115°	472.0	467.7	463.3	459.7	456.8	453.9	450.9	447.9	450.9	453.9	456.8
117.5°	526.4	523.5	520.5	517.4	514.0	510.8	507.5	504.2	507.5	510.8	514.0
120°	564.8	561.7	558.6	555.7	553.1	550.5	548.0	545.4	548.0	550.5	553.1
122.5°	601.0	597.6	594.3	591.2	588.4	585.7	582.9	580.2	582.9	585.7	588.4
125°	651.8	648.4	645.1	642.4	640.1	637.9	635.6	633.3	635.6	637.9	640.1
127.5°	698.9	696.4	694.0	691.5	689.0	686.5	684.0	681.5	684.0	686.5	689.0
130°	729.3	727.3	725.5	723.1	720.3	717.6	714.9	712.1	714.9	717.6	720.3
132.5°	758.6	756.7	754.7	752.6	750.2	748.0	745.6	743.2	745.6	748.0	750.2
135°	800.1	798.5	797.0	794.8	792.1	789.3	786.5	783.7	786.5	789.3	792.1
137.5°	837.8	836.1	834.3	832.4	830.5	828.6	826.6	824.7	826.6	828.6	830.5
140°	862.5	860.5	858.7	857.0	855.7	854.3	852.9	851.5	852.9	854.3	855.7
142.5°	885.0	882.8	880.6	878.9	877.7	876.4	875.1	873.9	875.1	876.4	877.7
145°	915.7	912.8	909.9	908.5	908.7	908.8	909.0	909.1	909.0	908.8	908.7
147.5°	944.1	941.3	938.3	937.2	937.8	938.5	939.1	939.9	939.1	938.5	937.8
150°	961.2	958.5	955.7	955.0	956.2	957.3	958.5	959.8	958.5	957.3	956.2
152.5°	977.1	974.4	971.8	971.2	972.6	973.9	975.3	976.6	975.3	973.9	972.6
155°	999.2	997.2	995.1	994.8	996.4	997.9	999.5	1001.1	999.5	997.9	996.4
157.5°	1018.0	1016.5	1015.0	1015.0	1016.3	1017.6	1019.0	1020.3	1019.0	1017.6	1016.3
160°	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1030.5	1029.4	1028.3
162.5°	1039.0	1038.1	1037.2	1037.3	1038.3	1039.3	1040.4	1041.5	1040.4	1039.3	1038.3
165°	1051.4	1050.9	1050.4	1050.7	1051.7	1052.7	1053.8	1054.8	1053.8	1052.7	1051.7
167.5°	1061.4	1060.9	1060.4	1060.6	1061.7	1062.7	1063.7	1064.8	1063.7	1062.7	1061.7
170°	1066.6	1066.2	1065.9	1066.2	1067.3	1068.4	1069.3	1070.4	1069.3	1068.4	1067.3
172.5°	1070.3	1070.0	1069.7	1070.0	1071.1	1072.0	1073.1	1074.2	1073.1	1072.0	1071.1
175°	1074.4	1074.1	1073.7	1074.2	1075.4	1076.5	1077.7	1079.0	1077.7	1076.5	1075.4
177.5°	1075.7	1075.6	1075.5	1075.9	1076.8	1077.8	1078.8	1079.8	1078.8	1077.8	1076.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331597-930

CATALOG NUMBER: S122DIW-S1005D970U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1604.3	1601.2	1590.7	1585.3	1576.3	1567.7	1562.3	1564.8	1566.8	1565.8	1564.2
5°	1558.3	1546.4	1528.3	1512.6	1501.4	1480.8	1472.0	1467.7	1464.0	1459.5	1455.1
7.5°	1503.5	1484.8	1458.8	1436.6	1415.5	1389.9	1375.3	1366.6	1357.6	1347.7	1339.0
10°	1464.5	1438.3	1410.8	1379.6	1354.6	1331.5	1310.8	1297.1	1284.6	1272.8	1264.0
12.5°	1423.6	1393.3	1359.3	1316.6	1289.1	1256.0	1252.9	1228.7	1209.1	1201.8	1191.5
15°	1358.3	1315.8	1272.8	1222.1	1200.3	1170.3	1151.5	1132.8	1115.9	1104.0	1100.9
17.5°	1284.3	1229.2	1186.3	1150.0	1114.2	1083.5	1066.2	1051.2	1037.3	1021.4	1019.3
20°	1227.8	1180.2	1133.4	1101.6	1064.7	1033.4	1012.2	997.2	985.3	975.9	967.8
22.5°	1174.3	1122.3	1079.4	1044.6	1008.2	982.9	966.2	951.7	941.8	931.5	923.8
25°	1088.4	1047.8	1000.9	961.6	931.6	915.3	901.6	889.1	882.9	876.0	867.2
27.5°	1013.3	968.2	924.3	893.8	867.5	853.1	843.3	834.9	829.0	825.0	820.0
30°	960.3	914.7	880.4	850.4	828.5	814.2	807.9	802.9	796.0	793.5	791.0
32.5°	909.3	868.2	838.9	812.9	792.0	782.6	776.9	772.4	767.0	764.5	759.5
35°	837.2	802.9	774.1	759.8	742.9	734.7	730.4	724.1	719.2	716.6	716.0
37.5°	769.4	739.6	720.6	702.1	695.0	690.1	684.0	679.8	678.3	677.9	677.3
40°	725.4	701.0	684.2	669.2	666.0	658.5	653.5	649.8	649.8	650.4	649.8
42.5°	685.4	663.6	648.7	635.7	632.0	627.5	622.6	622.3	623.3	625.4	623.3
45°	624.8	609.2	598.6	592.3	585.5	581.1	580.4	582.3	582.9	583.6	585.5
47.5°	569.1	558.7	549.1	542.2	539.2	538.4	537.7	541.0	544.0	545.1	548.0
50°	536.1	524.2	516.1	511.7	509.2	507.9	509.2	513.0	515.4	518.6	520.5
52.5°	499.1	490.7	485.1	481.8	480.7	481.5	481.8	486.0	490.0	491.1	492.0
55°	448.0	441.7	440.5	434.9	437.3	436.8	439.9	442.4	446.1	449.9	450.5
57.5°	397.0	392.0	388.7	389.1	389.9	392.6	395.3	399.7	403.7	407.6	408.0
60°	363.1	360.5	358.7	358.7	359.9	363.6	366.7	371.1	373.7	376.1	378.0
62.5°	332.0	329.5	327.7	328.6	331.9	334.1	337.8	340.1	342.7	345.1	346.0
65°	283.1	281.8	283.6	284.9	285.5	288.7	293.0	294.9	297.4	298.6	303.0
67.5°	237.9	238.1	237.9	239.7	243.3	244.0	248.2	252.6	253.1	255.4	258.3
70°	207.4	208.7	209.9	211.2	214.3	215.6	218.7	220.5	223.1	224.9	226.8
72.5°	179.4	179.7	180.9	180.7	183.3	186.1	188.7	190.5	193.1	195.4	197.3
75°	138.1	138.1	139.3	140.0	143.1	146.2	145.6	146.8	149.4	151.8	153.1
77.5°	100.9	99.5	100.9	101.5	102.5	105.1	105.6	107.4	110.2	109.3	110.7
80°	76.9	75.0	76.9	77.5	77.5	80.6	80.6	81.9	83.7	81.9	83.7
82.5°	54.9	54.0	55.4	55.5	56.5	56.6	57.6	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.1	28.1	27.5	27.5	28.8	26.9
87.5°	10.2	10.0	9.8	10.0	9.9	9.6	9.3	9.5	9.6	8.8	9.0
90°	8.4	10.0	11.4	12.8	14.2	15.6	16.5	17.3	18.2	19.1	19.6
92.5°	15.1	15.3	16.0	16.7	17.4	18.1	18.5	19.0	19.4	19.9	20.2
95°	27.8	25.5	26.7	28.0	29.2	30.4	31.2	32.1	33.0	33.8	34.2
97.5°	36.1	29.4	32.3	35.1	37.8	40.7	41.3	42.1	42.7	43.5	43.9
100°	43.0	32.6	35.5	38.5	41.5	44.4	45.8	47.2	48.6	50.0	50.8
102.5°	158.9	144.1	119.5	94.9	70.3	45.7	47.5	49.2	51.0	52.8	54.0
105°	257.6	236.6	189.3	142.0	94.8	47.5	49.4	51.4	53.2	55.1	56.4
107.5°	319.5	293.3	236.6	179.9	123.2	66.5	64.6	62.6	60.7	58.8	58.1
110°	359.6	336.5	286.4	236.4	186.4	136.3	119.0	101.7	84.4	67.1	58.8



TEST NUMBER: P331597-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	397.9	393.3	381.0	368.6	356.2	343.9	280.7	217.5	154.4	91.2	59.9
115°	459.7	463.3	467.7	472.0	476.4	480.7	400.5	320.3	240.2	160.0	113.7
117.5°	517.4	520.5	523.5	526.4	529.5	532.4	513.0	493.6	474.3	454.9	424.7
120°	555.7	558.6	561.7	564.8	567.9	571.0	573.2	575.2	577.2	579.4	568.7
122.5°	591.2	594.3	597.6	601.0	604.4	607.8	609.0	610.3	611.6	612.8	611.1
125°	642.4	645.1	648.4	651.8	655.0	658.3	659.5	660.7	661.9	663.2	664.0
127.5°	691.5	694.0	696.4	698.9	701.3	703.8	705.6	707.4	709.1	710.9	711.8
130°	723.1	725.5	727.3	729.3	731.2	733.1	735.0	736.9	738.8	740.7	741.6
132.5°	752.6	754.7	756.7	758.6	760.4	762.4	764.0	765.6	767.3	768.9	769.6
135°	794.8	797.0	798.5	800.1	801.6	803.2	804.9	806.7	808.4	810.1	810.8
137.5°	832.4	834.3	836.1	837.8	839.6	841.4	843.1	844.7	846.4	848.2	848.7
140°	857.0	858.7	860.5	862.5	864.4	866.3	867.9	869.4	871.0	872.5	872.9
142.5°	878.9	880.6	882.8	885.0	887.2	889.3	890.8	892.2	893.6	895.0	895.3
145°	908.5	909.9	912.8	915.7	918.7	921.6	922.8	924.1	925.3	926.4	926.7
147.5°	937.2	938.3	941.3	944.1	947.1	950.0	950.9	951.8	952.7	953.6	953.7
150°	955.0	955.7	958.5	961.2	964.0	966.8	967.8	968.9	969.9	970.9	971.0
152.5°	971.2	971.8	974.4	977.1	979.7	982.4	983.4	984.5	985.5	986.5	986.5
155°	994.8	995.1	997.2	999.2	1001.4	1003.4	1004.4	1005.5	1006.5	1007.5	1007.4
157.5°	1015.0	1015.0	1016.5	1018.0	1019.4	1020.8	1022.1	1023.2	1024.4	1025.6	1025.5
160°	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1032.5	1033.6	1034.5	1035.6	1035.5
162.5°	1037.3	1037.2	1038.1	1039.0	1039.9	1040.8	1042.0	1043.2	1044.3	1045.5	1045.4
165°	1050.7	1050.4	1050.9	1051.4	1052.0	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4
167.5°	1060.6	1060.4	1060.9	1061.4	1061.8	1062.3	1063.5	1064.7	1065.9	1067.1	1067.0
170°	1066.2	1065.9	1066.2	1066.6	1067.0	1067.3	1068.5	1069.8	1070.9	1072.1	1072.0
172.5°	1070.0	1069.7	1070.0	1070.3	1070.7	1071.1	1072.3	1073.4	1074.6	1075.9	1075.7
175°	1074.2	1073.7	1074.1	1074.4	1074.7	1075.1	1076.3	1077.5	1078.7	1079.9	1079.7
177.5°	1075.9	1075.5	1075.6	1075.7	1075.9	1076.0	1077.0	1078.0	1078.9	1079.9	1079.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1559.3	1558.3	1558.3	1553.8	1558.3	1558.3	1559.3	1564.2	1565.8	1566.8	1564.8
5°	1446.4	1444.5	1441.4	1444.5	1441.4	1444.5	1446.4	1455.1	1459.5	1464.0	1467.7
7.5°	1334.8	1327.3	1326.2	1318.8	1326.2	1327.3	1334.8	1339.0	1347.7	1357.6	1366.6
10°	1253.4	1248.4	1247.7	1235.8	1247.7	1248.4	1253.4	1264.0	1272.8	1284.6	1297.1
12.5°	1191.4	1179.4	1181.8	1174.8	1181.8	1179.4	1191.4	1191.5	1201.8	1209.1	1228.7
15°	1084.0	1084.0	1081.6	1070.9	1081.6	1084.0	1084.0	1100.9	1104.0	1115.9	1132.8
17.5°	1007.0	1005.7	999.7	1002.7	999.7	1005.7	1007.0	1019.3	1021.4	1037.3	1051.2
20°	960.9	957.2	949.7	949.7	949.7	957.2	960.9	967.8	975.9	985.3	997.2
22.5°	917.5	917.2	909.2	911.7	909.2	917.2	917.5	923.8	931.5	941.8	951.7
25°	866.6	861.6	857.9	859.7	857.9	861.6	866.6	867.2	876.0	882.9	889.1
27.5°	818.4	815.6	815.4	810.2	815.4	815.6	818.4	820.0	825.0	829.0	834.9
30°	790.4	784.2	785.4	782.3	785.4	784.2	790.4	791.0	793.5	796.0	802.9
32.5°	758.4	756.1	754.9	752.3	754.9	756.1	758.4	759.5	764.5	767.0	772.4
35°	714.8	715.4	712.2	713.5	712.2	715.4	714.8	716.0	716.6	719.2	724.1
37.5°	676.7	678.7	677.2	677.5	677.2	678.7	676.7	677.3	677.9	678.3	679.8
40°	651.7	651.7	651.7	653.5	651.7	651.7	651.7	649.8	650.4	649.8	649.8
42.5°	627.7	626.7	625.7	625.6	625.7	626.7	627.7	623.3	625.4	623.3	622.3
45°	586.7	588.6	589.2	586.0	589.2	588.6	586.7	585.5	583.6	582.9	582.3
47.5°	549.6	549.8	549.6	552.4	549.6	549.8	549.6	548.0	545.1	544.0	541.0
50°	523.6	522.4	523.6	522.4	523.6	522.4	523.6	520.5	518.6	515.4	513.0
52.5°	496.1	496.4	495.6	495.4	495.6	496.4	496.1	492.0	491.1	490.0	486.0
55°	453.0	454.2	453.6	453.6	453.6	454.2	453.0	450.5	449.9	446.1	442.4
57.5°	408.4	409.5	410.3	407.6	410.3	409.5	408.4	408.0	407.6	403.7	399.7
60°	377.4	380.5	379.8	378.6	379.8	380.5	377.4	378.0	376.1	373.7	371.1
62.5°	348.9	350.0	349.9	349.7	349.9	350.0	348.9	346.0	345.1	342.7	340.1
65°	304.9	306.1	304.3	306.1	304.3	306.1	304.9	303.0	298.6	297.4	294.9
67.5°	257.6	258.0	259.3	260.2	259.3	258.0	257.6	258.3	255.4	253.1	252.6
70°	228.0	227.5	229.3	231.2	229.3	227.5	228.0	226.8	224.9	223.1	220.5
72.5°	197.1	198.4	197.8	199.2	197.8	198.4	197.1	197.3	195.4	193.1	190.5
75°	151.8	153.7	153.1	155.0	153.1	153.7	151.8	153.1	151.8	149.4	146.8
77.5°	109.7	110.0	109.7	110.7	109.7	110.0	109.7	110.7	109.3	110.2	107.4
80°	83.7	82.5	81.2	83.7	81.2	82.5	83.7	83.7	81.9	83.7	81.9
82.5°	58.2	58.9	57.7	57.7	57.7	58.9	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.8	27.5	27.5
87.5°	9.0	8.6	8.6	8.2	8.6	8.6	9.0	9.0	8.8	9.6	9.5
90°	20.0	20.3	20.7	21.0	20.7	20.3	20.0	19.6	19.1	18.2	17.3
92.5°	20.4	20.6	20.8	21.0	20.8	20.6	20.4	20.2	19.9	19.4	19.0
95°	34.0	33.8	33.7	33.5	33.7	33.8	34.0	34.2	33.8	33.0	32.1
97.5°	44.1	44.3	44.5	44.7	44.5	44.3	44.1	43.9	43.5	42.7	42.1
100°	51.1	51.5	51.9	52.2	51.9	51.5	51.1	50.8	50.0	48.6	47.2
102.5°	54.5	55.0	55.4	55.9	55.4	55.0	54.5	54.0	52.8	51.0	49.2
105°	57.2	57.8	58.5	59.2	58.5	57.8	57.2	56.4	55.1	53.2	51.4
107.5°	58.9	59.5	60.3	60.9	60.3	59.5	58.9	58.1	58.8	60.7	62.6
110°	59.4	60.2	60.8	61.6	60.8	60.2	59.4	58.8	67.1	84.4	101.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	60.5	61.1	61.6	62.2	61.6	61.1	60.5	59.9	91.2	154.4	217.5
115°	101.3	88.8	76.3	63.9	76.3	88.8	101.3	113.7	160.0	240.2	320.3
117.5°	383.7	342.8	301.8	260.8	301.8	342.8	383.7	424.7	454.9	474.3	493.6
120°	545.4	522.0	498.6	475.2	498.6	522.0	545.4	568.7	579.4	577.2	575.2
122.5°	606.6	602.1	597.5	593.0	597.5	602.1	606.6	611.1	612.8	611.6	610.3
125°	664.6	665.0	665.5	666.1	665.5	665.0	664.6	664.0	663.2	661.9	660.7
127.5°	711.9	712.0	712.1	712.2	712.1	712.0	711.9	711.8	710.9	709.1	707.4
130°	741.4	741.2	741.0	740.9	741.0	741.2	741.4	741.6	740.7	738.8	736.9
132.5°	769.4	769.2	769.1	768.9	769.1	769.2	769.4	769.6	768.9	767.3	765.6
135°	810.5	810.1	809.8	809.4	809.8	810.1	810.5	810.8	810.1	808.4	806.7
137.5°	848.2	847.5	846.9	846.4	846.9	847.5	848.2	848.7	848.2	846.4	844.7
140°	872.0	871.1	870.3	869.4	870.3	871.1	872.0	872.9	872.5	871.0	869.4
142.5°	894.5	893.6	892.8	891.9	892.8	893.6	894.5	895.3	895.0	893.6	892.2
145°	925.8	924.9	924.1	923.2	924.1	924.9	925.8	926.7	926.4	925.3	924.1
147.5°	952.9	952.2	951.5	950.7	951.5	952.2	952.9	953.7	953.6	952.7	951.8
150°	970.2	969.3	968.4	967.6	968.4	969.3	970.2	971.0	970.9	969.9	968.9
152.5°	985.4	984.2	983.1	981.9	983.1	984.2	985.4	986.5	986.5	985.5	984.5
155°	1006.0	1004.6	1003.2	1001.8	1003.2	1004.6	1006.0	1007.4	1007.5	1006.5	1005.5
157.5°	1024.1	1022.8	1021.4	1020.1	1021.4	1022.8	1024.1	1025.5	1025.6	1024.4	1023.2
160°	1034.3	1033.1	1031.9	1030.7	1031.9	1033.1	1034.3	1035.5	1035.6	1034.5	1033.6
162.5°	1043.8	1042.4	1040.9	1039.4	1040.9	1042.4	1043.8	1045.4	1045.5	1044.3	1043.2
165°	1056.1	1054.9	1053.7	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4	1056.1	1054.9
167.5°	1065.4	1063.9	1062.3	1060.8	1062.3	1063.9	1065.4	1067.0	1067.1	1065.9	1064.7
170°	1070.4	1068.9	1067.3	1065.8	1067.3	1068.9	1070.4	1072.0	1072.1	1070.9	1069.8
172.5°	1074.2	1072.6	1071.1	1069.5	1071.1	1072.6	1074.2	1075.7	1075.9	1074.6	1073.4
175°	1077.9	1076.2	1074.5	1072.8	1074.5	1076.2	1077.9	1079.7	1079.9	1078.7	1077.5
177.5°	1078.5	1077.3	1076.0	1074.8	1076.0	1077.3	1078.5	1079.8	1079.9	1078.9	1078.0
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1562.3	1567.7	1576.3	1585.3	1590.7	1601.2	1604.3	1609.2	1613.7	1624.2	1635.2
5°	1472.0	1480.8	1501.4	1512.6	1528.3	1546.4	1558.3	1570.8	1584.5	1608.3	1630.1
7.5°	1375.3	1389.9	1415.5	1436.6	1458.8	1484.8	1503.5	1528.3	1548.7	1582.3	1614.2
10°	1310.8	1331.5	1354.6	1379.6	1410.8	1438.3	1464.5	1495.7	1520.8	1560.7	1598.2
12.5°	1252.9	1256.0	1289.1	1316.6	1359.3	1393.3	1423.6	1463.8	1488.2	1535.8	1575.2
15°	1151.5	1170.3	1200.3	1222.1	1272.8	1315.8	1358.3	1400.2	1428.3	1487.0	1538.9
17.5°	1066.2	1083.5	1114.2	1150.0	1186.3	1229.2	1284.3	1328.4	1366.6	1433.7	1495.0
20°	1012.2	1033.4	1064.7	1101.6	1133.4	1180.2	1227.8	1278.4	1319.6	1395.2	1467.0
22.5°	966.2	982.9	1008.2	1044.6	1079.4	1122.3	1174.3	1229.4	1272.6	1354.2	1427.0
25°	901.6	915.3	931.6	961.6	1000.9	1047.8	1088.4	1149.0	1212.1	1288.3	1376.5
27.5°	843.3	853.1	867.5	893.8	924.3	968.2	1013.3	1070.8	1134.2	1217.0	1309.9
30°	807.9	814.2	828.5	850.4	880.4	914.7	960.3	1015.3	1080.3	1164.0	1256.5
32.5°	776.9	782.6	792.0	812.9	838.9	868.2	909.3	964.3	1026.3	1108.6	1211.0
35°	730.4	734.7	742.9	759.8	774.1	802.9	837.2	887.2	945.3	1024.1	1130.2
37.5°	684.0	690.1	695.0	702.1	720.6	739.6	769.4	811.6	868.6	948.1	1049.3
40°	653.5	658.5	666.0	669.2	684.2	701.0	725.4	764.1	821.7	894.1	992.8
42.5°	622.6	627.5	632.0	635.7	648.7	663.6	685.4	718.7	769.6	840.1	937.8
45°	580.4	581.1	585.5	592.3	598.6	609.2	624.8	653.5	692.9	759.1	847.8
47.5°	537.7	538.4	539.2	542.2	549.1	558.7	569.1	592.5	627.7	680.5	766.9
50°	509.2	507.9	509.2	511.7	516.1	524.2	536.1	552.9	581.7	631.0	710.4
52.5°	481.8	481.5	480.7	481.8	485.1	490.7	499.1	513.5	539.2	584.6	654.4
55°	439.9	436.8	437.3	434.9	440.5	441.7	448.0	459.8	482.3	513.6	579.2
57.5°	395.3	392.6	389.9	389.1	388.7	392.0	397.0	406.3	423.6	451.0	504.2
60°	366.7	363.6	359.9	358.7	358.7	360.5	363.1	369.9	386.1	410.5	454.2
62.5°	337.8	334.1	331.9	328.6	327.7	329.5	332.0	336.9	348.6	371.5	409.3
65°	293.0	288.7	285.5	284.9	283.6	281.8	283.1	288.0	297.4	315.5	345.5
67.5°	248.2	244.0	243.3	239.7	237.9	238.1	237.9	242.1	247.8	263.4	285.8
70°	218.7	215.6	214.3	211.2	209.9	208.7	207.4	211.2	216.8	229.9	249.3
72.5°	188.7	186.1	183.3	180.7	180.9	179.7	179.4	181.7	186.3	198.4	213.3
75°	145.6	146.2	143.1	140.0	139.3	138.1	138.1	140.0	141.9	151.2	163.1
77.5°	105.6	105.1	102.5	101.5	100.9	99.5	100.9	102.1	103.1	109.3	118.1
80°	80.6	80.6	77.5	77.5	76.9	75.0	76.9	75.6	78.1	84.4	90.6
82.5°	57.6	56.6	56.5	55.5	55.4	54.0	54.9	56.1	57.1	61.4	65.1
85°	28.1	28.1	27.5	26.9	27.5	26.9	27.5	28.1	28.8	30.7	33.8
87.5°	9.3	9.6	9.9	10.0	9.8	10.0	10.2	10.3	10.9	11.0	11.2
90°	16.5	15.6	14.2	12.8	11.4	10.0	8.4	6.5	4.6	2.7	0.8
92.5°	18.5	18.1	17.4	16.7	16.0	15.3	15.1	15.2	15.4	15.6	15.7
95°	31.2	30.4	29.2	28.0	26.7	25.5	27.8	33.5	39.2	44.9	50.6
97.5°	41.3	40.7	37.8	35.1	32.3	29.4	36.1	52.2	68.3	84.4	100.5
100°	45.8	44.4	41.5	38.5	35.5	32.6	43.0	66.8	90.4	114.1	137.9
102.5°	47.5	45.7	40.3	34.9	119.5	144.1	158.9	164.0	169.0	174.0	179.0
105°	49.4	47.5	34.8	142.0	189.3	236.6	257.6	252.4	247.2	242.1	236.8
107.5°	64.6	66.5	123.2	179.9	236.6	293.3	319.5	315.3	311.1	307.0	302.7
110°	119.0	136.3	186.4	236.4	286.4	336.5	359.6	356.0	352.4	348.8	345.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	280.7	343.9	356.2	368.6	381.0	393.3	397.9	394.7	391.4	388.2	385.0
115°	400.5	480.7	476.4	472.0	467.7	463.3	459.7	456.8	453.9	450.9	447.9
117.5°	513.0	532.4	529.5	526.4	523.5	520.5	517.4	514.0	510.8	507.5	504.2
120°	573.2	571.0	567.9	564.8	561.7	558.6	555.7	553.1	550.5	548.0	545.4
122.5°	609.0	607.8	604.4	601.0	597.6	594.3	591.2	588.4	585.7	582.9	580.2
125°	659.5	658.3	655.0	651.8	648.4	645.1	642.4	640.1	637.9	635.6	633.3
127.5°	705.6	703.8	701.3	698.9	696.4	694.0	691.5	689.0	686.5	684.0	681.5
130°	735.0	733.1	731.2	729.3	727.3	725.5	723.1	720.3	717.6	714.9	712.1
132.5°	764.0	762.4	760.4	758.6	756.7	754.7	752.6	750.2	748.0	745.6	743.2
135°	804.9	803.2	801.6	800.1	798.5	797.0	794.8	792.1	789.3	786.5	783.7
137.5°	843.1	841.4	839.6	837.8	836.1	834.3	832.4	830.5	828.6	826.6	824.7
140°	867.9	866.3	864.4	862.5	860.5	858.7	857.0	855.7	854.3	852.9	851.5
142.5°	890.8	889.3	887.2	885.0	882.8	880.6	878.9	877.7	876.4	875.1	873.9
145°	922.8	921.6	918.7	915.7	912.8	909.9	908.5	908.7	908.8	909.0	909.1
147.5°	950.9	950.0	947.1	944.1	941.3	938.3	937.2	937.8	938.5	939.1	939.9
150°	967.8	966.8	964.0	961.2	958.5	955.7	955.0	956.2	957.3	958.5	959.8
152.5°	983.4	982.4	979.7	977.1	974.4	971.8	971.2	972.6	973.9	975.3	976.6
155°	1004.4	1003.4	1001.4	999.2	997.2	995.1	994.8	996.4	997.9	999.5	1001.1
157.5°	1022.1	1020.8	1019.4	1018.0	1016.5	1015.0	1015.0	1016.3	1017.6	1019.0	1020.3
160°	1032.5	1031.4	1030.5	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4
162.5°	1042.0	1040.8	1039.9	1039.0	1038.1	1037.2	1037.3	1038.3	1039.3	1040.4	1041.5
165°	1053.7	1052.5	1052.0	1051.4	1050.9	1050.4	1050.7	1051.7	1052.7	1053.8	1054.8
167.5°	1063.5	1062.3	1061.8	1061.4	1060.9	1060.4	1060.6	1061.7	1062.7	1063.7	1064.8
170°	1068.5	1067.3	1067.0	1066.6	1066.2	1065.9	1066.2	1067.3	1068.4	1069.3	1070.4
172.5°	1072.3	1071.1	1070.7	1070.3	1070.0	1069.7	1070.0	1071.1	1072.0	1073.1	1074.2
175°	1076.3	1075.1	1074.7	1074.4	1074.1	1073.7	1074.2	1075.4	1076.5	1077.7	1079.0
177.5°	1077.0	1076.0	1075.9	1075.7	1075.6	1075.5	1075.9	1076.8	1077.8	1078.8	1079.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1634.3	1636.7	1644.7	1652.8	1661.7	1664.3	1668.3	1664.8	1663.7	1673.2	1680.3
5°	1638.8	1650.1	1672.0	1692.0	1708.9	1720.7	1733.2	1738.2	1747.6	1760.7	1776.9
7.5°	1633.6	1655.5	1689.9	1719.0	1750.7	1773.6	1791.5	1806.7	1825.2	1850.1	1877.1
10°	1627.6	1657.0	1698.8	1734.5	1773.2	1802.5	1826.9	1850.6	1878.2	1912.5	1948.2
12.5°	1616.7	1651.5	1703.8	1746.0	1795.7	1824.6	1857.4	1908.7	1938.1	1986.0	2036.1
15°	1594.5	1633.2	1706.3	1758.2	1814.4	1869.4	1930.1	1978.7	2027.5	2055.6	2126.2
17.5°	1561.6	1618.5	1699.5	1760.0	1831.4	1918.0	1986.2	2041.3	2097.6	2143.2	2178.6
20°	1535.1	1597.0	1689.5	1761.9	1846.9	1940.0	2018.1	2074.4	2123.1	2161.2	2183.0
22.5°	1501.6	1579.5	1669.5	1754.4	1863.0	1955.0	2037.1	2081.4	2122.1	2140.7	2149.0
25°	1448.9	1542.6	1644.5	1748.2	1870.7	1968.1	2043.1	2070.0	2081.9	2063.8	2033.8
27.5°	1392.0	1496.6	1615.6	1736.4	1865.9	1959.7	2013.4	2009.1	1989.0	1930.4	1883.5
30°	1349.6	1464.5	1592.6	1724.4	1854.4	1945.6	1976.9	1945.6	1900.1	1834.4	1767.6
32.5°	1305.1	1424.1	1568.1	1707.5	1833.4	1913.7	1920.4	1866.7	1796.1	1721.5	1638.1
35°	1237.7	1366.4	1522.0	1669.5	1788.8	1839.4	1809.5	1714.5	1630.8	1528.9	1415.2
37.5°	1161.6	1303.7	1459.8	1613.9	1722.0	1735.2	1660.8	1560.7	1442.7	1323.0	1189.1
40°	1104.6	1255.2	1415.8	1571.4	1667.0	1653.3	1558.3	1448.3	1307.7	1161.5	1037.1
42.5°	1053.7	1204.3	1367.8	1520.4	1597.0	1559.3	1448.3	1313.4	1162.3	1024.6	910.7
45°	965.3	1120.3	1287.8	1435.2	1479.0	1410.8	1264.0	1114.0	965.3	850.4	760.4
47.5°	879.6	1032.8	1198.7	1328.2	1343.7	1252.1	1091.7	937.3	809.5	715.9	652.4
50°	816.6	970.3	1134.7	1250.3	1245.2	1134.7	969.7	822.9	716.0	640.4	597.9
52.5°	760.1	905.3	1063.2	1168.2	1141.7	1021.2	863.7	733.4	645.6	586.4	548.0
55°	672.3	806.7	956.6	1040.9	992.2	858.5	725.4	620.4	555.5	511.1	481.1
57.5°	585.1	711.0	839.4	891.4	837.5	714.0	603.1	526.9	478.1	445.2	425.7
60°	531.1	641.1	755.4	800.4	736.1	626.1	538.6	470.5	431.1	404.2	386.8
62.5°	477.1	575.6	683.4	707.9	649.1	556.1	478.6	422.0	389.6	365.7	349.3
65°	403.7	484.2	566.1	582.3	528.0	456.1	394.8	358.0	329.3	311.8	298.6
67.5°	331.0	395.7	453.7	466.8	419.2	369.4	325.1	293.0	273.5	259.0	247.9
70°	288.0	339.2	386.8	397.4	359.3	314.9	281.2	255.5	238.1	225.6	214.9
72.5°	242.6	285.3	324.7	331.9	300.8	266.9	239.2	219.1	203.6	195.6	185.5
75°	185.6	210.6	241.2	243.0	222.4	201.8	180.6	167.5	159.3	149.4	144.3
77.5°	130.9	150.6	168.0	171.5	159.2	145.2	133.3	122.9	116.1	111.5	106.8
80°	100.0	115.6	123.1	127.4	118.7	108.7	101.8	95.0	90.6	87.5	84.4
82.5°	71.5	81.1	88.1	91.5	86.7	80.7	73.9	70.0	66.6	64.0	62.9
85°	36.2	40.6	45.0	46.2	45.0	42.5	38.7	38.7	36.9	36.2	36.2
87.5°	13.0	15.4	15.8	17.7	17.0	17.3	17.5	17.4	17.1	16.8	16.5
90°	2.7	4.6	6.5	8.4	10.0	11.4	12.8	14.2	15.6	16.5	17.3
92.5°	15.6	15.4	15.2	15.1	15.3	16.0	16.7	17.4	18.1	18.5	19.0
95°	44.9	39.2	33.5	27.8	25.5	26.7	28.0	29.2	30.4	31.2	32.1
97.5°	84.4	68.3	52.2	36.1	29.4	32.3	35.1	37.8	40.7	41.3	42.1
100°	114.1	90.4	66.8	43.0	32.6	35.5	38.5	41.5	44.4	45.8	47.2
102.5°	174.0	169.0	164.0	158.9	144.1	119.5	94.9	70.3	45.7	47.5	49.2
105°	242.1	247.2	252.4	257.6	236.6	189.3	142.0	94.8	47.5	49.4	51.4
107.5°	307.0	311.1	315.3	319.5	293.3	236.6	179.9	123.2	66.5	64.6	62.6
110°	348.8	352.4	356.0	359.6	336.5	286.4	236.4	186.4	136.3	119.0	101.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	388.2	391.4	394.7	397.9	393.3	381.0	368.6	356.2	343.9	280.7	217.5
115°	450.9	453.9	456.8	459.7	463.3	467.7	472.0	476.4	480.7	400.5	320.3
117.5°	507.5	510.8	514.0	517.4	520.5	523.5	526.4	529.5	532.4	513.0	493.6
120°	548.0	550.5	553.1	555.7	558.6	561.7	564.8	567.9	571.0	573.2	575.2
122.5°	582.9	585.7	588.4	591.2	594.3	597.6	601.0	604.4	607.8	609.0	610.3
125°	635.6	637.9	640.1	642.4	645.1	648.4	651.8	655.0	658.3	659.5	660.7
127.5°	684.0	686.5	689.0	691.5	694.0	696.4	698.9	701.3	703.8	705.6	707.4
130°	714.9	717.6	720.3	723.1	725.5	727.3	729.3	731.2	733.1	735.0	736.9
132.5°	745.6	748.0	750.2	752.6	754.7	756.7	758.6	760.4	762.4	764.0	765.6
135°	786.5	789.3	792.1	794.8	797.0	798.5	800.1	801.6	803.2	804.9	806.7
137.5°	826.6	828.6	830.5	832.4	834.3	836.1	837.8	839.6	841.4	843.1	844.7
140°	852.9	854.3	855.7	857.0	858.7	860.5	862.5	864.4	866.3	867.9	869.4
142.5°	875.1	876.4	877.7	878.9	880.6	882.8	885.0	887.2	889.3	890.8	892.2
145°	909.0	908.8	908.7	908.5	909.9	912.8	915.7	918.7	921.6	922.8	924.1
147.5°	939.1	938.5	937.8	937.2	938.3	941.3	944.1	947.1	950.0	950.9	951.8
150°	958.5	957.3	956.2	955.0	955.7	958.5	961.2	964.0	966.8	967.8	968.9
152.5°	975.3	973.9	972.6	971.2	971.8	974.4	977.1	979.7	982.4	983.4	984.5
155°	999.5	997.9	996.4	994.8	995.1	997.2	999.2	1001.4	1003.4	1004.4	1005.5
157.5°	1019.0	1017.6	1016.3	1015.0	1015.0	1016.5	1018.0	1019.4	1020.8	1022.1	1023.2
160°	1030.5	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1032.5	1033.6
162.5°	1040.4	1039.3	1038.3	1037.3	1037.2	1038.1	1039.0	1039.9	1040.8	1042.0	1043.2
165°	1053.8	1052.7	1051.7	1050.7	1050.4	1050.9	1051.4	1052.0	1052.5	1053.7	1054.9
167.5°	1063.7	1062.7	1061.7	1060.6	1060.4	1060.9	1061.4	1061.8	1062.3	1063.5	1064.7
170°	1069.3	1068.4	1067.3	1066.2	1065.9	1066.2	1066.6	1067.0	1067.3	1068.5	1069.8
172.5°	1073.1	1072.0	1071.1	1070.0	1069.7	1070.0	1070.3	1070.7	1071.1	1072.3	1073.4
175°	1077.7	1076.5	1075.4	1074.2	1073.7	1074.1	1074.4	1074.7	1075.1	1076.3	1077.5
177.5°	1078.8	1077.8	1076.8	1075.9	1075.5	1075.6	1075.7	1075.9	1076.0	1077.0	1078.0
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1686.2	1693.2	1693.2	1694.2	1702.2	1701.2	1700.7
5°	1794.5	1805.1	1806.3	1817.5	1825.0	1822.5	1815.7
7.5°	1896.5	1916.3	1931.3	1939.7	1949.5	1955.7	1952.9
10°	1977.5	2006.3	2023.7	2035.6	2050.0	2060.6	2056.8
12.5°	2051.0	2085.2	2109.3	2129.6	2131.4	2145.1	2135.8
15°	2165.6	2201.8	2205.5	2220.5	2232.5	2231.1	2231.8
17.5°	2203.4	2215.1	2217.5	2217.8	2217.9	2213.5	2204.1
20°	2190.0	2185.6	2175.0	2166.8	2152.5	2150.6	2138.1
22.5°	2126.0	2112.1	2085.5	2067.8	2045.5	2039.6	2036.1
25°	2000.0	1969.4	1926.9	1886.3	1875.0	1853.2	1859.5
27.5°	1827.2	1779.5	1733.5	1700.5	1670.6	1637.9	1647.2
30°	1705.7	1652.0	1587.0	1537.0	1505.1	1473.9	1468.3
32.5°	1560.7	1482.1	1409.6	1365.5	1316.7	1297.0	1275.4
35°	1310.8	1234.0	1162.1	1100.2	1064.7	1037.1	1012.2
37.5°	1086.1	997.6	939.6	889.5	863.7	848.0	852.0
40°	946.6	869.1	826.6	788.5	764.8	753.5	756.0
42.5°	833.6	775.6	740.6	714.5	697.8	691.5	690.1
45°	705.4	672.9	644.2	629.2	621.1	614.2	609.8
47.5°	617.9	591.4	575.2	566.3	559.2	552.2	552.0
50°	565.4	548.0	536.7	527.3	521.7	516.7	521.1
52.5°	525.5	509.5	498.2	489.8	487.7	483.2	483.1
55°	466.1	453.6	445.5	438.0	434.2	431.7	428.6
57.5°	412.1	400.2	392.7	388.0	380.9	378.4	377.4
60°	373.7	364.3	356.8	350.5	347.4	342.4	342.4
62.5°	338.1	328.8	321.8	317.0	311.9	309.9	310.4
65°	286.8	279.3	272.4	267.4	266.2	262.4	263.7
67.5°	239.5	234.6	227.3	224.5	222.2	220.2	218.7
70°	208.1	203.1	199.3	195.6	193.7	193.7	193.7
72.5°	181.6	175.5	173.3	168.6	169.7	167.7	165.7
75°	140.6	136.8	134.9	133.1	130.0	130.0	130.0
77.5°	103.5	102.3	100.1	98.1	97.3	96.7	96.9
80°	80.0	79.3	78.1	78.1	76.9	76.2	75.0
82.5°	61.5	59.8	59.1	58.6	58.4	58.2	58.0
85°	35.0	33.8	33.8	34.3	33.1	33.1	33.8
87.5°	17.1	17.3	17.0	17.0	17.5	17.1	17.2
90°	18.2	19.1	19.6	20.0	20.3	20.7	21.0
92.5°	19.4	19.9	20.2	20.4	20.6	20.8	21.0
95°	33.0	33.8	34.2	34.0	33.8	33.7	33.5
97.5°	42.7	43.5	43.9	44.1	44.3	44.5	44.7
100°	48.6	50.0	50.8	51.1	51.5	51.9	52.2
102.5°	51.0	52.8	54.0	54.5	55.0	55.4	55.9
105°	53.2	55.1	56.4	57.2	57.8	58.5	59.2
107.5°	60.7	58.8	58.1	58.9	59.5	60.3	60.9
110°	84.4	67.1	58.8	59.4	60.2	60.8	61.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	154.4	91.2	59.9	60.5	61.1	61.6	62.2
115°	240.2	160.0	113.7	101.3	88.8	76.3	63.9
117.5°	474.3	454.9	424.7	383.7	342.8	301.8	260.8
120°	577.2	579.4	568.7	545.4	522.0	498.6	475.2
122.5°	611.6	612.8	611.1	606.6	602.1	597.5	593.0
125°	661.9	663.2	664.0	664.6	665.0	665.5	666.1
127.5°	709.1	710.9	711.8	711.9	712.0	712.1	712.2
130°	738.8	740.7	741.6	741.4	741.2	741.0	740.9
132.5°	767.3	768.9	769.6	769.4	769.2	769.1	768.9
135°	808.4	810.1	810.8	810.5	810.1	809.8	809.4
137.5°	846.4	848.2	848.7	848.2	847.5	846.9	846.4
140°	871.0	872.5	872.9	872.0	871.1	870.3	869.4
142.5°	893.6	895.0	895.3	894.5	893.6	892.8	891.9
145°	925.3	926.4	926.7	925.8	924.9	924.1	923.2
147.5°	952.7	953.6	953.7	952.9	952.2	951.5	950.7
150°	969.9	970.9	971.0	970.2	969.3	968.4	967.6
152.5°	985.5	986.5	986.5	985.4	984.2	983.1	981.9
155°	1006.5	1007.5	1007.4	1006.0	1004.6	1003.2	1001.8
157.5°	1024.4	1025.6	1025.5	1024.1	1022.8	1021.4	1020.1
160°	1034.5	1035.6	1035.5	1034.3	1033.1	1031.9	1030.7
162.5°	1044.3	1045.5	1045.4	1043.8	1042.4	1040.9	1039.4
165°	1056.1	1057.4	1057.4	1056.1	1054.9	1053.7	1052.5
167.5°	1065.9	1067.1	1067.0	1065.4	1063.9	1062.3	1060.8
170°	1070.9	1072.1	1072.0	1070.4	1068.9	1067.3	1065.8
172.5°	1074.6	1075.9	1075.7	1074.2	1072.6	1071.1	1069.5
175°	1078.7	1079.9	1079.7	1077.9	1076.2	1074.5	1072.8
177.5°	1078.9	1079.9	1079.8	1078.5	1077.3	1076.0	1074.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6

(END OF REPORT)