

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: P331854-935

Luminaire Tested: **S122RDIW-S1005D970U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331854-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S1005D970U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

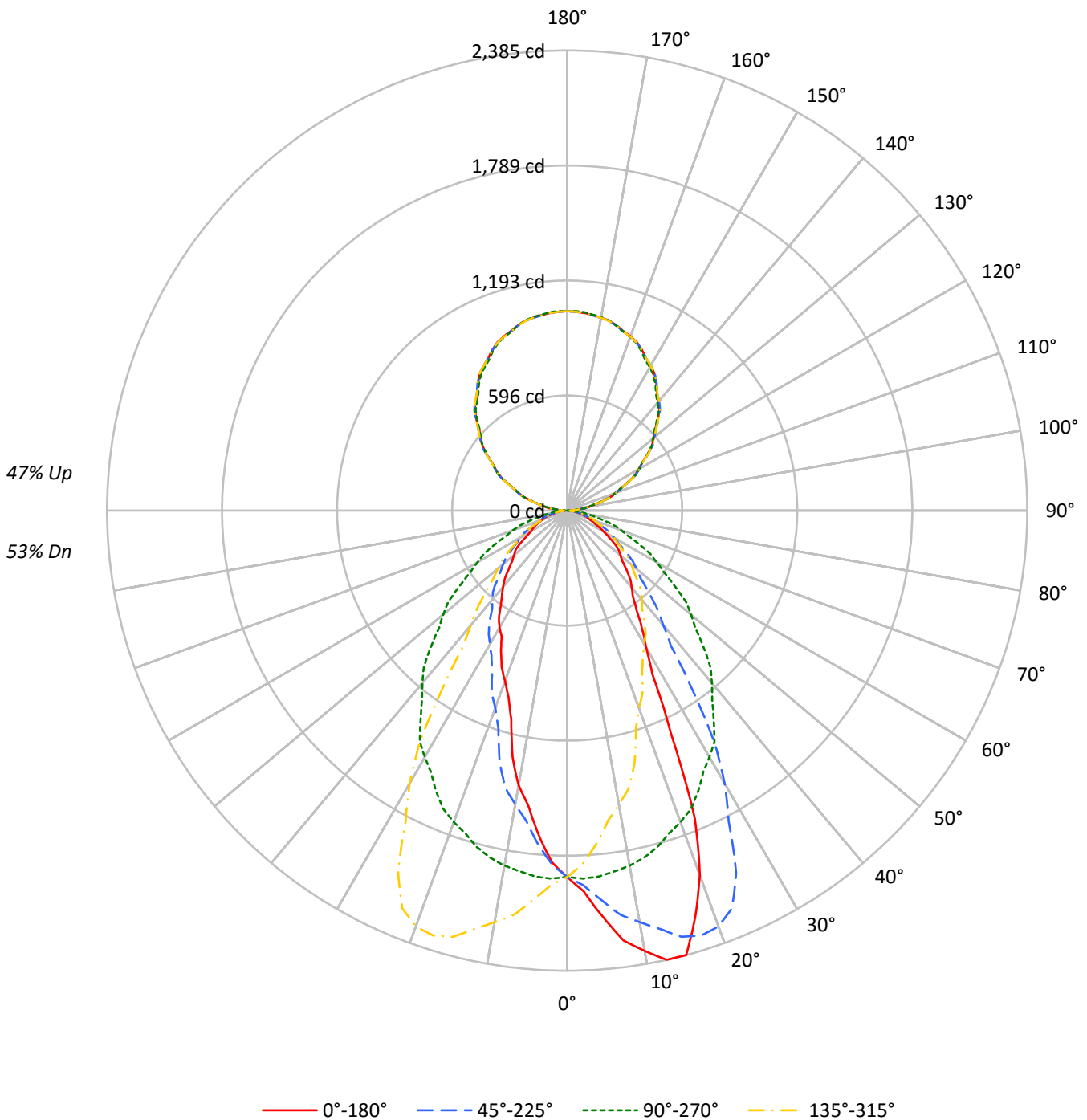
Lumens per Lamp: N/A  
Luminaire Lumens: 6175.4 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (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	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	92	88	92	88	85	83	76	74	72	64	63	61	53	52	51	46				
2	91	84	78	74	84	78	73	69	67	64	61	57	55	52	48	46	45	40				
3	84	75	68	62	77	70	64	59	60	56	52	52	48	45	43	41	39	35				
4	77	67	59	54	71	63	56	51	54	49	45	47	43	40	39	37	35	31				
5	71	60	52	47	66	56	49	44	49	44	40	42	38	35	36	33	31	28				
6	66	54	47	41	61	51	44	39	45	39	35	39	35	31	33	30	28	25				
7	61	49	42	37	57	47	40	35	41	35	32	36	31	28	31	27	25	22				
8	57	45	38	33	53	43	36	31	38	32	28	33	29	26	28	25	23	20				
9	53	42	34	30	50	39	33	28	35	29	26	30	26	23	26	23	21	19				
10	50	38	31	27	47	36	30	26	32	27	23	28	24	21	25	21	19	17				

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

	0°	90°	180°	270°
0°	30658	30658	30658	30658
5°	34240	30851	27353	30851
10°	37990	30634	23710	30634
15°	39858	30186	18683	30186
20°	34553	29520	16167	29520
25°	22661	28609	14434	28609
30°	15252	27505	13064	27505
35°	12354	26112	11783	26112
40°	10985	24601	10903	24601
45°	9944	22825	9732	22825
50°	9048	21064	9018	21064
55°	8507	19111	8397	19111
60°	7114	17321	7030	17321
65°	5998	15729	6804	15729
70°	5542	14049	6420	14049
75°	5190	12227	5926	12227
80°	4788	10060	5272	10060
85°	4409	7947	4650	7947



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	2.9
10°-20°	501.6	8.1
20°-30°	646.3	10.5
30°-40°	614.2	9.9
40°-50°	526.2	8.5
50°-60°	400.7	6.5
60°-70°	253.3	4.1
70°-80°	126.5	2.0
80°-90°	37.1	0.6
90°-100°	65.5	1.1
100°-110°	203.4	3.3
110°-120°	347.6	5.6
120°-130°	457.2	7.4
130°-140°	513.1	8.3
140°-150°	503.1	8.1
150°-160°	422.0	6.8
160°-170°	279.9	4.5
170°-180°	97.8	1.6
0°-30°	1327.9	21.5
0°-40°	1942.1	31.4
0°-60°	2869.0	46.5
0°-90°	3285.8	53.2
90°-120°	616.5	10.0
90°-150°	2089.9	33.8
90°-180°	2890.0	46.8
0°-180°	6175.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1899	1899	1899	1899	1899	
5°	2113	1904	1688	1904	2113	209
15°	2384	1806	1118	1806	2384	643
25°	1272	1606	810	1606	1272	604
35°	627	1325	598	1325	627	401
45°	436	1000	426	1000	436	337
55°	302	679	298	679	302	265
65°	157	412	178	412	157	160
75°	83	196	95	196	83	88
85°	24	43	25	43	24	26
90°	30	1	30	1	30	14
95°	54	45	54	45	54	60
105°	194	188	194	188	194	204
115°	349	349	349	349	349	344
125°	509	508	509	508	509	454
135°	664	657	664	657	664	511
145°	806	797	806	797	806	503
155°	918	911	918	911	918	423
165°	992	992	992	992	992	280
175°	1028	1032	1028	1032	1028	98
180°	1033	1033	1033	1033	1033	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1975.9	1977.5	1979.1	1975.4	1975.4	1972.2	1965.4	1960.1	1945.3	1943.2	1943.2
5°	2112.6	2111.3	2113.9	2105.4	2093.5	2090.9	2078.4	2061.8	2044.7	2025.6	2021.6
7.5°	2248.6	2246.6	2241.3	2239.9	2230.8	2210.8	2190.6	2169.1	2140.6	2112.8	2098.8
10°	2317.2	2339.0	2325.7	2302.7	2307.3	2276.3	2259.8	2231.5	2207.7	2166.1	2156.9
12.5°	2384.7	2393.3	2389.1	2376.0	2370.1	2348.5	2326.2	2301.6	2257.8	2220.4	2188.0
15°	2384.5	2397.0	2400.3	2396.3	2399.7	2398.3	2386.4	2366.0	2327.7	2286.8	2251.2
17.5°	2208.5	2217.2	2238.8	2253.4	2271.9	2311.0	2330.2	2337.8	2332.1	2308.8	2283.6
20°	2011.0	1996.5	2057.2	2088.3	2114.6	2180.6	2237.3	2259.1	2294.0	2293.4	2286.8
22.5°	1731.3	1734.7	1792.3	1829.1	1906.2	1972.1	2036.8	2118.7	2186.4	2231.1	2257.3
25°	1272.0	1297.2	1354.5	1404.7	1490.5	1613.2	1724.7	1854.0	1976.1	2072.4	2164.1
27.5°	955.4	957.3	1002.7	1049.0	1100.0	1200.6	1340.9	1495.4	1669.4	1813.0	1978.1
30°	818.1	814.2	833.3	861.7	905.3	983.1	1088.6	1240.4	1413.9	1630.3	1823.0
32.5°	721.0	721.3	735.6	756.6	792.8	845.3	917.7	1040.9	1204.9	1417.6	1643.6
35°	626.8	626.1	636.7	651.9	667.0	700.7	750.2	814.9	927.6	1126.3	1357.2
37.5°	559.2	562.1	567.3	576.8	593.6	612.3	642.0	685.4	765.8	883.2	1077.3
40°	521.2	522.5	529.8	537.7	547.6	562.1	586.5	621.6	680.3	774.0	915.8
42.5°	486.4	487.8	492.8	500.2	508.1	522.5	542.8	573.0	620.6	693.7	810.7
45°	435.5	435.5	440.1	443.4	451.9	465.1	481.6	506.7	539.7	593.8	671.7
47.5°	387.7	387.8	390.9	396.6	401.9	412.2	428.4	448.9	472.9	514.8	581.3
50°	360.2	360.9	362.9	367.5	370.8	380.0	392.6	410.4	435.5	467.8	523.2
52.5°	338.1	337.7	340.2	342.2	344.4	351.0	360.4	376.1	398.5	426.6	472.5
55°	302.2	299.5	303.5	306.8	308.8	311.4	316.7	326.6	345.7	369.5	403.8
57.5°	257.4	256.2	259.1	262.1	268.3	275.4	279.9	286.2	296.1	313.1	347.2
60°	220.3	220.3	226.3	228.3	235.6	244.8	254.0	259.3	269.2	280.4	305.5
62.5°	187.6	188.2	191.0	193.0	197.0	208.4	221.3	232.9	242.3	253.0	269.6
65°	157.0	158.3	158.3	159.6	162.3	165.0	170.2	179.4	196.0	211.1	223.7
67.5°	133.3	133.7	134.1	135.3	136.0	139.0	141.0	145.2	149.0	163.3	178.9
70°	117.4	119.4	118.7	120.1	120.7	122.1	124.7	126.7	132.6	136.0	145.2
72.5°	102.6	104.1	104.0	104.8	106.5	106.8	108.8	110.8	114.7	117.4	122.4
75°	83.2	82.5	83.2	84.5	85.2	85.8	85.8	88.4	90.4	93.0	96.3
77.5°	64.1	64.8	64.7	64.8	64.9	66.1	66.0	67.2	69.1	70.4	72.1
80°	51.5	52.1	51.5	52.1	52.8	53.5	52.8	53.5	55.4	56.7	56.7
82.5°	39.9	40.0	40.4	40.6	40.6	40.8	41.7	41.8	43.3	43.0	43.6
85°	23.8	23.1	23.1	23.1	23.8	24.5	23.8	23.8	24.5	24.5	24.5
87.5°	14.4	14.9	14.8	14.8	14.7	14.8	14.8	15.4	15.0	15.6	14.2
90°	29.6	29.4	29.3	29.1	28.8	28.9	29.4	29.7	30.1	30.5	26.3
92.5°	28.2	28.2	28.2	28.2	28.1	28.1	28.0	27.9	27.8	27.7	26.7
95°	54.1	54.4	54.8	55.2	55.6	55.8	55.8	55.8	55.8	55.8	55.4
97.5°	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.1
100°	119.5	119.7	119.9	120.0	120.3	120.4	120.4	120.4	120.4	120.4	119.8
102.5°	148.8	149.0	149.1	149.4	149.6	149.6	149.4	149.3	149.1	149.0	148.2
105°	193.6	193.6	193.6	193.6	193.6	193.4	193.0	192.6	192.3	191.8	191.5
107.5°	235.8	236.7	237.5	238.5	239.4	239.7	239.6	239.4	239.3	239.1	239.1
110°	268.6	269.1	269.8	270.4	271.0	271.2	271.2	271.2	271.2	271.2	271.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	300.0	300.4	300.8	301.3	301.7	302.1	302.6	303.1	303.5	304.0	304.2
115°	348.8	349.4	350.0	350.6	351.1	351.5	351.7	351.9	352.1	352.3	352.7
117.5°	395.4	396.0	396.6	397.2	397.7	398.2	398.7	399.2	399.7	400.1	401.2
120°	428.2	428.8	429.4	429.9	430.5	430.8	430.8	430.8	430.8	430.8	432.4
122.5°	460.3	460.7	461.2	461.6	462.0	462.4	462.9	463.4	463.8	464.3	465.4
125°	509.3	509.5	509.7	509.9	510.1	510.5	511.0	511.6	512.2	512.8	513.3
127.5°	554.0	554.6	555.2	555.8	556.4	557.1	557.8	558.4	559.1	559.9	560.6
130°	586.0	586.8	587.5	588.3	589.1	589.7	590.1	590.5	590.9	591.2	591.7
132.5°	616.7	617.3	617.9	618.6	619.2	619.9	620.8	621.6	622.5	623.4	623.3
135°	664.5	665.1	665.6	666.2	666.8	667.2	667.4	667.6	667.8	668.0	667.6
137.5°	707.7	708.5	709.3	710.1	710.8	711.4	711.5	711.6	711.8	712.0	711.4
140°	737.8	738.6	739.3	740.1	740.9	741.2	741.2	741.2	741.2	741.2	740.3
142.5°	765.0	765.8	766.5	767.3	768.1	768.4	768.3	768.1	767.9	767.8	767.2
145°	805.8	806.6	807.4	808.1	808.9	809.2	809.0	808.8	808.6	808.4	807.3
147.5°	842.2	843.0	843.7	844.5	845.2	845.3	844.9	844.5	844.0	843.6	842.8
150°	866.0	866.5	867.1	867.7	868.3	868.3	867.7	867.1	866.5	866.0	865.2
152.5°	888.3	889.0	889.8	890.5	891.2	891.2	890.5	889.8	889.0	888.3	887.3
155°	918.3	918.9	919.5	920.1	920.6	920.4	919.5	918.5	917.5	916.5	915.9
157.5°	944.1	945.0	946.0	946.9	947.8	947.6	946.3	945.0	943.7	942.4	942.0
160°	960.2	961.0	961.7	962.5	963.3	963.0	961.9	960.7	959.6	958.4	958.2
162.5°	974.1	975.0	975.9	976.9	977.8	977.7	976.3	975.0	973.7	972.3	972.2
165°	992.4	993.4	994.4	995.3	996.3	996.1	994.7	993.4	992.0	990.7	990.7
167.5°	1007.5	1008.4	1009.4	1010.5	1011.4	1011.2	1010.0	1008.6	1007.2	1005.8	1005.9
170°	1015.1	1016.2	1017.4	1018.6	1019.8	1019.7	1018.3	1016.9	1015.5	1014.3	1014.4
172.5°	1021.4	1022.5	1023.7	1024.8	1026.1	1025.9	1024.6	1023.2	1021.8	1020.5	1020.7
175°	1028.2	1029.3	1030.5	1031.7	1032.9	1032.7	1031.4	1030.0	1028.6	1027.3	1027.7
177.5°	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0	1034.1	1033.2	1032.3	1031.3	1031.7
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1944.3	1940.0	1936.4	1926.8	1922.1	1911.5	1910.0	1909.4	1895.7	1882.5	1878.8
5°	2011.0	2000.4	1984.7	1966.2	1947.1	1927.3	1914.1	1903.5	1877.1	1852.0	1837.5
7.5°	2078.4	2055.6	2028.3	1993.4	1964.2	1931.5	1907.2	1885.4	1848.0	1812.1	1787.9
10°	2128.5	2091.5	2055.2	2007.1	1969.5	1932.5	1898.2	1868.5	1826.3	1778.8	1745.2
12.5°	2159.6	2119.0	2069.0	2021.9	1973.2	1926.2	1880.3	1842.1	1792.5	1743.4	1703.5
15°	2201.7	2158.2	2097.5	2030.2	1967.5	1906.2	1853.4	1805.9	1741.2	1682.5	1633.7
17.5°	2236.2	2176.3	2111.1	2033.3	1960.7	1882.7	1814.7	1754.0	1682.0	1611.2	1553.7
20°	2247.2	2187.9	2112.6	2034.8	1949.0	1857.3	1784.1	1718.1	1640.9	1563.7	1497.7
22.5°	2240.4	2194.2	2110.6	2017.4	1929.5	1833.6	1750.8	1674.3	1588.6	1509.8	1433.3
25°	2193.8	2178.0	2098.8	1997.2	1896.9	1785.4	1689.7	1605.9	1508.3	1423.8	1340.7
27.5°	2085.2	2119.4	2070.3	1962.0	1850.5	1731.0	1623.5	1528.1	1426.8	1331.7	1248.9
30°	1980.7	2059.2	2038.1	1937.8	1813.1	1695.7	1574.9	1475.3	1367.1	1269.5	1187.7
32.5°	1837.6	1967.4	1988.0	1904.0	1775.1	1646.1	1519.5	1420.4	1307.4	1204.5	1124.8
35°	1609.9	1803.9	1892.9	1839.5	1710.2	1571.0	1440.3	1324.8	1211.3	1109.7	1030.6
37.5°	1338.2	1602.4	1750.8	1754.6	1635.9	1491.2	1348.8	1234.2	1118.1	1018.3	932.7
40°	1161.9	1448.2	1641.6	1684.5	1584.2	1427.8	1283.9	1167.2	1053.7	956.1	857.7
42.5°	1003.6	1288.8	1526.5	1601.0	1521.4	1366.1	1221.7	1099.6	989.3	896.9	796.5
45°	811.6	1060.9	1322.8	1456.1	1412.0	1268.1	1115.7	999.6	896.0	816.1	719.8
47.5°	684.6	860.4	1113.9	1294.1	1293.3	1162.0	1012.1	900.9	804.8	730.0	652.0
50°	612.3	765.3	979.8	1184.3	1201.4	1091.3	948.7	838.6	748.9	670.4	607.7
52.5°	547.3	673.5	866.3	1062.4	1111.2	1015.8	877.5	775.8	688.7	616.5	562.8
55°	462.5	560.2	706.6	890.0	964.0	896.6	774.0	678.9	608.3	547.6	501.4
57.5°	391.2	464.5	582.0	729.7	815.8	773.4	672.2	595.0	534.6	479.7	443.2
60°	346.4	406.4	506.1	629.5	724.4	694.7	608.3	536.4	484.9	437.5	403.1
62.5°	304.2	355.8	441.2	541.3	628.4	616.1	545.5	485.2	440.1	396.8	367.7
65°	244.8	282.4	349.0	427.6	497.5	503.4	452.6	411.7	371.4	337.2	311.4
67.5°	194.9	219.5	266.4	332.5	385.0	403.6	372.6	341.4	309.4	282.9	260.6
70°	164.3	184.1	218.3	271.8	320.0	339.8	322.0	297.6	269.8	248.1	228.9
72.5°	133.1	152.4	177.7	217.0	258.2	279.7	273.5	255.9	233.4	215.3	197.3
75°	100.3	106.2	123.4	149.8	182.1	200.6	205.2	196.0	178.1	164.3	153.7
77.5°	74.1	77.7	85.9	99.8	120.9	137.3	144.1	143.0	130.8	122.7	112.8
80°	59.4	61.4	65.3	71.3	87.1	103.6	108.2	108.2	99.6	96.3	86.4
82.5°	45.1	46.6	49.0	52.3	59.7	74.0	79.2	80.2	74.8	70.4	62.7
85°	25.7	25.1	26.4	28.4	29.7	33.7	41.6	42.9	41.6	36.2	34.3
87.5°	13.3	13.1	12.2	11.0	11.1	11.1	13.3	15.5	13.9	12.7	12.1
90°	22.0	17.7	13.4	10.2	7.8	5.5	3.2	0.9	3.2	5.5	7.8
92.5°	25.7	24.7	23.7	22.4	20.7	18.9	17.2	15.5	17.2	18.9	20.7
95°	55.0	54.7	54.2	53.1	51.1	49.2	47.3	45.4	47.3	49.2	51.1
97.5°	92.4	91.6	90.9	89.6	88.0	86.3	84.6	82.8	84.6	86.3	88.0
100°	119.2	118.6	118.0	116.9	115.4	113.8	112.3	110.7	112.3	113.8	115.4
102.5°	147.5	146.7	146.0	145.0	143.8	142.5	141.3	140.1	141.3	142.5	143.8
105°	191.1	190.7	190.3	189.9	189.2	188.6	188.0	187.5	188.0	188.6	189.2
107.5°	239.1	239.1	239.1	238.7	237.8	236.9	236.2	235.3	236.2	236.9	237.8
110°	271.2	271.2	271.2	270.6	269.5	268.3	267.2	266.0	267.2	268.3	269.5





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	304.3	304.4	304.6	304.1	303.0	301.8	300.7	299.5	300.7	301.8	303.0
115°	353.1	353.4	353.9	353.4	352.3	351.1	350.0	348.8	350.0	351.1	352.3
117.5°	402.3	403.4	404.4	404.2	402.7	401.1	399.6	398.0	399.6	401.1	402.7
120°	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8	432.4	433.9	435.5
122.5°	466.5	467.5	468.6	468.2	466.4	464.5	462.7	460.8	462.7	464.5	466.4
125°	513.9	514.5	515.1	514.5	512.8	511.0	509.3	507.6	509.3	511.0	512.8
127.5°	561.3	562.0	562.7	561.9	559.7	557.5	555.3	553.1	555.3	557.5	559.7
130°	592.0	592.5	592.8	591.8	589.3	586.7	584.2	581.7	584.2	586.7	589.3
132.5°	623.2	623.1	623.0	622.0	619.9	617.9	615.8	613.7	615.8	617.9	619.9
135°	667.2	666.8	666.4	665.2	663.1	660.9	658.8	656.7	658.8	660.9	663.1
137.5°	710.9	710.4	710.0	708.8	707.1	705.3	703.6	701.8	703.6	705.3	707.1
140°	739.3	738.4	737.4	736.0	734.3	732.5	730.8	729.0	730.8	732.5	734.3
142.5°	766.5	765.8	765.2	764.0	762.2	760.4	758.7	757.0	758.7	760.4	762.2
145°	806.1	804.9	803.7	802.5	801.2	799.8	798.4	797.0	798.4	799.8	801.2
147.5°	842.1	841.3	840.5	839.3	837.7	836.1	834.5	832.8	834.5	836.1	837.7
150°	864.4	863.7	862.9	861.9	860.7	859.5	858.4	857.2	858.4	859.5	860.7
152.5°	886.4	885.5	884.6	883.6	882.4	881.2	880.0	878.9	880.0	881.2	882.4
155°	915.4	914.8	914.2	913.6	913.1	912.5	911.9	911.3	911.9	912.5	913.1
157.5°	941.7	941.3	941.0	940.6	940.2	939.8	939.4	939.0	939.4	939.8	940.2
160°	958.0	957.9	957.6	957.3	956.9	956.6	956.1	955.8	956.1	956.6	956.9
162.5°	972.0	971.8	971.6	971.5	971.4	971.3	971.2	971.1	971.2	971.3	971.4
165°	990.7	990.7	990.7	990.8	990.9	991.2	991.4	991.5	991.4	991.2	990.9
167.5°	1005.9	1006.0	1006.0	1006.3	1006.9	1007.5	1008.1	1008.7	1008.1	1007.5	1006.9
170°	1014.6	1014.8	1015.0	1015.4	1016.0	1016.6	1017.1	1017.7	1017.1	1016.6	1016.0
172.5°	1020.9	1021.1	1021.2	1021.7	1022.3	1022.8	1023.4	1024.0	1023.4	1022.8	1022.3
175°	1028.0	1028.5	1028.8	1029.3	1029.9	1030.5	1031.0	1031.7	1031.0	1030.5	1029.9
177.5°	1031.9	1032.3	1032.5	1032.9	1033.4	1033.9	1034.3	1034.8	1034.3	1033.9	1033.4
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



TEST NUMBER: P331854-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1872.0	1868.3	1861.4	1850.8	1844.5	1833.4	1826.0	1830.2	1831.3	1830.2	1829.2
5°	1821.7	1807.8	1788.7	1770.2	1753.1	1734.6	1724.1	1719.4	1710.2	1704.9	1702.3
7.5°	1760.8	1737.0	1709.9	1677.7	1650.4	1621.8	1607.1	1599.8	1581.0	1570.7	1561.7
10°	1715.5	1677.8	1650.8	1608.6	1582.9	1545.2	1519.5	1520.2	1494.4	1479.9	1469.4
12.5°	1665.3	1624.0	1579.0	1541.0	1505.3	1475.1	1444.0	1431.5	1404.2	1390.2	1361.7
15°	1582.2	1534.0	1486.5	1435.0	1398.8	1351.9	1307.1	1252.3	1208.1	1169.8	1159.3
17.5°	1491.4	1431.8	1384.1	1323.7	1261.5	1182.8	1130.8	1099.0	1072.3	1052.1	1037.1
20°	1429.1	1368.4	1317.6	1226.6	1142.7	1089.3	1051.0	1026.7	998.9	977.1	965.3
22.5°	1363.7	1300.3	1231.1	1129.5	1064.1	1021.2	987.1	959.1	940.3	923.3	912.5
25°	1270.7	1201.4	1087.4	1017.4	964.6	919.7	896.0	878.8	859.0	835.9	825.4
27.5°	1172.6	1062.4	980.4	928.4	878.0	848.9	827.5	801.9	784.2	773.8	762.8
30°	1099.2	989.0	925.1	868.3	832.7	800.3	775.2	760.8	743.6	725.7	718.5
32.5°	1017.4	929.4	868.1	820.8	784.6	757.1	737.3	713.8	701.4	690.4	675.2
35°	915.8	849.1	793.1	754.8	720.5	698.1	674.9	661.1	638.7	629.5	623.5
37.5°	829.7	772.0	730.1	689.7	662.5	637.7	623.6	601.6	591.9	579.0	566.5
40°	781.2	724.4	684.2	651.2	620.9	602.4	584.5	566.8	552.2	546.3	531.2
42.5°	731.6	685.4	645.1	609.0	588.7	569.1	546.6	533.5	518.5	508.9	499.5
45°	663.1	622.2	587.9	558.2	535.7	515.3	500.8	479.0	470.5	451.3	443.4
47.5°	603.0	564.9	532.2	503.9	482.1	468.7	447.5	430.4	416.7	405.0	394.9
50°	560.2	528.5	496.8	471.7	451.9	432.8	411.0	402.4	381.3	375.4	369.5
52.5°	521.1	491.0	462.0	437.5	417.7	399.1	379.9	368.7	354.5	348.5	344.1
55°	466.5	437.5	409.7	388.0	368.2	349.0	337.2	323.3	316.7	312.1	306.8
57.5°	411.6	385.5	364.2	342.2	322.3	307.0	293.3	285.0	278.2	272.1	265.8
60°	376.8	351.6	332.5	312.1	291.6	279.1	268.5	258.6	250.7	241.5	238.8
62.5°	339.8	317.9	300.3	280.4	262.6	251.2	241.1	231.7	222.2	208.8	205.1
65°	289.0	271.8	253.4	236.9	221.0	209.8	195.3	184.8	180.8	179.4	178.8
67.5°	243.1	226.9	211.0	194.1	179.7	169.3	162.0	160.3	157.6	156.8	154.9
70°	212.5	197.3	181.4	165.6	151.8	149.8	147.1	144.5	141.2	139.9	138.5
72.5°	185.0	169.3	153.4	140.8	134.8	132.3	129.8	127.1	124.8	123.6	122.7
75°	141.9	127.3	116.8	112.2	108.8	106.9	102.9	100.9	99.6	97.6	96.9
77.5°	102.1	93.9	89.1	86.2	82.7	80.6	78.4	76.4	75.0	74.6	73.5
80°	77.8	73.9	70.6	66.6	65.3	62.7	62.0	60.0	60.7	58.7	58.7
82.5°	60.4	55.4	52.7	50.8	49.5	47.4	46.8	45.8	45.9	44.4	44.4
85°	31.0	29.7	28.4	27.0	27.0	25.1	25.7	25.1	25.1	23.8	23.1
87.5°	12.1	12.2	12.0	12.8	13.7	14.0	13.9	13.3	13.3	13.2	12.7
90°	10.2	13.4	17.7	22.0	26.3	30.5	30.1	29.7	29.4	28.9	28.8
92.5°	22.4	23.7	24.7	25.7	26.7	27.7	27.8	27.9	28.0	28.1	28.1
95°	53.1	54.2	54.7	55.0	55.4	55.8	55.8	55.8	55.8	55.8	55.6
97.5°	89.6	90.9	91.6	92.4	93.1	93.8	93.8	93.8	93.8	93.8	93.8
100°	116.9	118.0	118.6	119.2	119.8	120.4	120.4	120.4	120.4	120.4	120.3
102.5°	145.0	146.0	146.7	147.5	148.2	149.0	149.1	149.3	149.4	149.6	149.6
105°	189.9	190.3	190.7	191.1	191.5	191.8	192.3	192.6	193.0	193.4	193.6
107.5°	238.7	239.1	239.1	239.1	239.1	239.1	239.3	239.4	239.6	239.7	239.4
110°	270.6	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.0



TEST NUMBER: P331854-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	304.1	304.6	304.4	304.3	304.2	304.0	303.5	303.1	302.6	302.1	301.7
115°	353.4	353.9	353.4	353.1	352.7	352.3	352.1	351.9	351.7	351.5	351.1
117.5°	404.2	404.4	403.4	402.3	401.2	400.1	399.7	399.2	398.7	398.2	397.7
120°	437.0	437.0	435.5	433.9	432.4	430.8	430.8	430.8	430.8	430.8	430.5
122.5°	468.2	468.6	467.5	466.5	465.4	464.3	463.8	463.4	462.9	462.4	462.0
125°	514.5	515.1	514.5	513.9	513.3	512.8	512.2	511.6	511.0	510.5	510.1
127.5°	561.9	562.7	562.0	561.3	560.6	559.9	559.1	558.4	557.8	557.1	556.4
130°	591.8	592.8	592.5	592.0	591.7	591.2	590.9	590.5	590.1	589.7	589.1
132.5°	622.0	623.0	623.1	623.2	623.3	623.4	622.5	621.6	620.8	619.9	619.2
135°	665.2	666.4	666.8	667.2	667.6	668.0	667.8	667.6	667.4	667.2	666.8
137.5°	708.8	710.0	710.4	710.9	711.4	712.0	711.8	711.6	711.5	711.4	710.8
140°	736.0	737.4	738.4	739.3	740.3	741.2	741.2	741.2	741.2	741.2	740.9
142.5°	764.0	765.2	765.8	766.5	767.2	767.8	767.9	768.1	768.3	768.4	768.1
145°	802.5	803.7	804.9	806.1	807.3	808.4	808.6	808.8	809.0	809.2	808.9
147.5°	839.3	840.5	841.3	842.1	842.8	843.6	844.0	844.5	844.9	845.3	845.2
150°	861.9	862.9	863.7	864.4	865.2	866.0	866.5	867.1	867.7	868.3	868.3
152.5°	883.6	884.6	885.5	886.4	887.3	888.3	889.0	889.8	890.5	891.2	891.2
155°	913.6	914.2	914.8	915.4	915.9	916.5	917.5	918.5	919.5	920.4	920.6
157.5°	940.6	941.0	941.3	941.7	942.0	942.4	943.7	945.0	946.3	947.6	947.8
160°	957.3	957.6	957.9	958.0	958.2	958.4	959.6	960.7	961.9	963.0	963.3
162.5°	971.5	971.6	971.8	972.0	972.2	972.3	973.7	975.0	976.3	977.7	977.8
165°	990.8	990.7	990.7	990.7	990.7	990.7	992.0	993.4	994.7	996.1	996.3
167.5°	1006.3	1006.0	1006.0	1005.9	1005.9	1005.8	1007.2	1008.6	1010.0	1011.2	1011.4
170°	1015.4	1015.0	1014.8	1014.6	1014.4	1014.3	1015.5	1016.9	1018.3	1019.7	1019.8
172.5°	1021.7	1021.2	1021.1	1020.9	1020.7	1020.5	1021.8	1023.2	1024.6	1025.9	1026.1
175°	1029.3	1028.8	1028.5	1028.0	1027.7	1027.3	1028.6	1030.0	1031.4	1032.7	1032.9
177.5°	1032.9	1032.5	1032.3	1031.9	1031.7	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1823.4	1824.5	1822.9	1823.9	1822.9	1824.5	1823.4	1829.2	1830.2	1831.3	1830.2
5°	1698.9	1691.0	1689.7	1687.7	1689.7	1691.0	1698.9	1702.3	1704.9	1710.2	1719.4
7.5°	1550.4	1549.2	1545.9	1541.3	1545.9	1549.2	1550.4	1561.7	1570.7	1581.0	1599.8
10°	1454.8	1451.6	1450.9	1446.2	1450.9	1451.6	1454.8	1469.4	1479.9	1494.4	1520.2
12.5°	1342.9	1321.7	1319.5	1307.9	1319.5	1321.7	1342.9	1361.7	1390.2	1404.2	1431.5
15°	1143.4	1139.4	1126.3	1117.7	1126.3	1139.4	1143.4	1159.3	1169.8	1208.1	1252.3
17.5°	1029.4	1016.5	1012.4	1010.6	1012.4	1016.5	1029.4	1037.1	1052.1	1072.3	1099.0
20°	956.1	944.2	942.2	940.9	942.2	944.2	956.1	965.3	977.1	998.9	1026.7
22.5°	905.3	892.9	887.8	883.8	887.8	892.9	905.3	912.5	923.3	940.3	959.1
25°	818.8	814.2	811.6	810.2	811.6	814.2	818.8	825.4	835.9	859.0	878.8
27.5°	751.1	741.0	739.0	735.6	739.0	741.0	751.1	762.8	773.8	784.2	801.9
30°	712.6	709.3	704.6	700.7	704.6	709.3	712.6	718.5	725.7	743.6	760.8
32.5°	667.2	664.4	660.3	658.5	660.3	664.4	667.2	675.2	690.4	701.4	713.8
35°	616.9	607.7	603.7	597.8	603.7	607.7	616.9	623.5	629.5	638.7	661.1
37.5°	563.7	558.9	553.3	555.3	553.3	558.9	563.7	566.5	579.0	591.9	601.6
40°	522.5	519.3	518.0	517.3	518.0	519.3	522.5	531.2	546.3	552.2	566.8
42.5°	489.8	480.7	477.3	477.2	477.3	480.7	489.8	499.5	508.9	518.5	533.5
45°	440.1	431.5	425.6	426.2	425.6	431.5	440.1	443.4	451.3	470.5	479.0
47.5°	389.2	388.9	385.2	386.3	385.2	388.9	389.2	394.9	405.0	416.7	430.4
50°	364.9	360.9	358.3	359.0	358.3	360.9	364.9	369.5	375.4	381.3	402.4
52.5°	341.6	338.2	336.1	338.9	336.1	338.2	341.6	344.1	348.5	354.5	368.7
55°	303.5	299.5	298.9	298.3	298.9	299.5	303.5	306.8	312.1	316.7	323.3
57.5°	260.9	258.2	254.3	252.5	254.3	258.2	260.9	265.8	272.1	278.2	285.0
60°	230.2	225.0	218.3	217.7	218.3	225.0	230.2	238.8	241.5	250.7	258.6
62.5°	202.2	201.2	199.9	199.8	199.9	201.2	202.2	205.1	208.8	222.2	231.7
65°	177.5	176.8	177.5	178.1	177.5	176.8	177.5	178.8	179.4	180.8	184.8
67.5°	154.6	153.4	152.3	152.8	152.3	153.4	154.6	154.9	156.8	157.6	160.3
70°	137.2	136.6	136.0	136.0	136.0	136.6	137.2	138.5	139.9	141.2	144.5
72.5°	120.4	120.2	119.6	119.0	119.6	120.2	120.4	122.7	123.6	124.8	127.1
75°	96.3	95.0	95.0	95.0	95.0	95.0	96.3	96.9	97.6	99.6	100.9
77.5°	73.4	72.7	72.1	71.5	72.1	72.7	73.4	73.5	74.6	75.0	76.4
80°	58.0	57.4	56.7	56.7	56.7	57.4	58.0	58.7	58.7	60.7	60.0
82.5°	44.3	43.7	43.6	43.0	43.6	43.7	44.3	44.4	44.4	45.9	45.8
85°	23.8	24.5	23.8	25.1	23.8	24.5	23.8	23.1	23.8	25.1	25.1
87.5°	12.7	12.2	12.7	12.2	12.7	12.2	12.7	12.7	13.2	13.3	13.3
90°	29.1	29.3	29.4	29.6	29.4	29.3	29.1	28.8	28.9	29.4	29.7
92.5°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.1	28.1	28.0	27.9
95°	55.2	54.8	54.4	54.1	54.4	54.8	55.2	55.6	55.8	55.8	55.8
97.5°	93.8	93.8	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8
100°	120.0	119.9	119.7	119.5	119.7	119.9	120.0	120.3	120.4	120.4	120.4
102.5°	149.4	149.1	149.0	148.8	149.0	149.1	149.4	149.6	149.6	149.4	149.3
105°	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.4	193.0	192.6
107.5°	238.5	237.5	236.7	235.8	236.7	237.5	238.5	239.4	239.7	239.6	239.4
110°	270.4	269.8	269.1	268.6	269.1	269.8	270.4	271.0	271.2	271.2	271.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	301.3	300.8	300.4	300.0	300.4	300.8	301.3	301.7	302.1	302.6	303.1
115°	350.6	350.0	349.4	348.8	349.4	350.0	350.6	351.1	351.5	351.7	351.9
117.5°	397.2	396.6	396.0	395.4	396.0	396.6	397.2	397.7	398.2	398.7	399.2
120°	429.9	429.4	428.8	428.2	428.8	429.4	429.9	430.5	430.8	430.8	430.8
122.5°	461.6	461.2	460.7	460.3	460.7	461.2	461.6	462.0	462.4	462.9	463.4
125°	509.9	509.7	509.5	509.3	509.5	509.7	509.9	510.1	510.5	511.0	511.6
127.5°	555.8	555.2	554.6	554.0	554.6	555.2	555.8	556.4	557.1	557.8	558.4
130°	588.3	587.5	586.8	586.0	586.8	587.5	588.3	589.1	589.7	590.1	590.5
132.5°	618.6	617.9	617.3	616.7	617.3	617.9	618.6	619.2	619.9	620.8	621.6
135°	666.2	665.6	665.1	664.5	665.1	665.6	666.2	666.8	667.2	667.4	667.6
137.5°	710.1	709.3	708.5	707.7	708.5	709.3	710.1	710.8	711.4	711.5	711.6
140°	740.1	739.3	738.6	737.8	738.6	739.3	740.1	740.9	741.2	741.2	741.2
142.5°	767.3	766.5	765.8	765.0	765.8	766.5	767.3	768.1	768.4	768.3	768.1
145°	808.1	807.4	806.6	805.8	806.6	807.4	808.1	808.9	809.2	809.0	808.8
147.5°	844.5	843.7	843.0	842.2	843.0	843.7	844.5	845.2	845.3	844.9	844.5
150°	867.7	867.1	866.5	866.0	866.5	867.1	867.7	868.3	868.3	867.7	867.1
152.5°	890.5	889.8	889.0	888.3	889.0	889.8	890.5	891.2	891.2	890.5	889.8
155°	920.1	919.5	918.9	918.3	918.9	919.5	920.1	920.6	920.4	919.5	918.5
157.5°	946.9	946.0	945.0	944.1	945.0	946.0	946.9	947.8	947.6	946.3	945.0
160°	962.5	961.7	961.0	960.2	961.0	961.7	962.5	963.3	963.0	961.9	960.7
162.5°	976.9	975.9	975.0	974.1	975.0	975.9	976.9	977.8	977.7	976.3	975.0
165°	995.3	994.4	993.4	992.4	993.4	994.4	995.3	996.3	996.1	994.7	993.4
167.5°	1010.5	1009.4	1008.4	1007.5	1008.4	1009.4	1010.5	1011.4	1011.2	1010.0	1008.6
170°	1018.6	1017.4	1016.2	1015.1	1016.2	1017.4	1018.6	1019.8	1019.7	1018.3	1016.9
172.5°	1024.8	1023.7	1022.5	1021.4	1022.5	1023.7	1024.8	1026.1	1025.9	1024.6	1023.2
175°	1031.7	1030.5	1029.3	1028.2	1029.3	1030.5	1031.7	1032.9	1032.7	1031.4	1030.0
177.5°	1034.1	1033.2	1032.3	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0	1034.1	1033.2
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



TEST NUMBER: P331854-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1826.0	1833.4	1844.5	1850.8	1861.4	1868.3	1872.0	1878.8	1882.5	1895.7	1909.4
5°	1724.1	1734.6	1753.1	1770.2	1788.7	1807.8	1821.7	1837.5	1852.0	1877.1	1903.5
7.5°	1607.1	1621.8	1650.4	1677.7	1709.9	1737.0	1760.8	1787.9	1812.1	1848.0	1885.4
10°	1519.5	1545.2	1582.9	1608.6	1650.8	1677.8	1715.5	1745.2	1778.8	1826.3	1868.5
12.5°	1444.0	1475.1	1505.3	1541.0	1579.0	1624.0	1665.3	1703.5	1743.4	1792.5	1842.1
15°	1307.1	1351.9	1398.8	1435.0	1486.5	1534.0	1582.2	1633.7	1682.5	1741.2	1805.9
17.5°	1130.8	1182.8	1261.5	1323.7	1384.1	1431.8	1491.4	1553.7	1611.2	1682.0	1754.0
20°	1051.0	1089.3	1142.7	1226.6	1317.6	1368.4	1429.1	1497.7	1563.7	1640.9	1718.1
22.5°	987.1	1021.2	1064.1	1129.5	1231.1	1300.3	1363.7	1433.3	1509.8	1588.6	1674.3
25°	896.0	919.7	964.6	1017.4	1087.4	1201.4	1270.7	1340.7	1423.8	1508.3	1605.9
27.5°	827.5	848.9	878.0	928.4	980.4	1062.4	1172.6	1248.9	1331.7	1426.8	1528.1
30°	775.2	800.3	832.7	868.3	925.1	989.0	1099.2	1187.7	1269.5	1367.1	1475.3
32.5°	737.3	757.1	784.6	820.8	868.1	929.4	1017.4	1124.8	1204.5	1307.4	1420.4
35°	674.9	698.1	720.5	754.8	793.1	849.1	915.8	1030.6	1109.7	1211.3	1324.8
37.5°	623.6	637.7	662.5	689.7	730.1	772.0	829.7	932.7	1018.3	1118.1	1234.2
40°	584.5	602.4	620.9	651.2	684.2	724.4	781.2	857.7	956.1	1053.7	1167.2
42.5°	546.6	569.1	588.7	609.0	645.1	685.4	731.6	796.5	896.9	989.3	1099.6
45°	500.8	515.3	535.7	558.2	587.9	622.2	663.1	719.8	816.1	896.0	999.6
47.5°	447.5	468.7	482.1	503.9	532.2	564.9	603.0	652.0	730.0	804.8	900.9
50°	411.0	432.8	451.9	471.7	496.8	528.5	560.2	607.7	670.4	748.9	838.6
52.5°	379.9	399.1	417.7	437.5	462.0	491.0	521.1	562.8	616.5	688.7	775.8
55°	337.2	349.0	368.2	388.0	409.7	437.5	466.5	501.4	547.6	608.3	678.9
57.5°	293.3	307.0	322.3	342.2	364.2	385.5	411.6	443.2	479.7	534.6	595.0
60°	268.5	279.1	291.6	312.1	332.5	351.6	376.8	403.1	437.5	484.9	536.4
62.5°	241.1	251.2	262.6	280.4	300.3	317.9	339.8	367.7	396.8	440.1	485.2
65°	195.3	209.8	221.0	236.9	253.4	271.8	289.0	311.4	337.2	371.4	411.7
67.5°	162.0	169.3	179.7	194.1	211.0	226.9	243.1	260.6	282.9	309.4	341.4
70°	147.1	149.8	151.8	165.6	181.4	197.3	212.5	228.9	248.1	269.8	297.6
72.5°	129.8	132.3	134.8	140.8	153.4	169.3	185.0	197.3	215.3	233.4	255.9
75°	102.9	106.9	108.8	112.2	116.8	127.3	141.9	153.7	164.3	178.1	196.0
77.5°	78.4	80.6	82.7	86.2	89.1	93.9	102.1	112.8	122.7	130.8	143.0
80°	62.0	62.7	65.3	66.6	70.6	73.9	77.8	86.4	96.3	99.6	108.2
82.5°	46.8	47.4	49.5	50.8	52.7	55.4	60.4	62.7	70.4	74.8	80.2
85°	25.7	25.1	27.0	27.0	28.4	29.7	31.0	34.3	36.2	41.6	42.9
87.5°	13.9	14.0	13.7	12.8	12.0	12.2	12.1	12.1	12.7	13.9	15.5
90°	30.1	30.5	26.3	22.0	17.7	13.4	10.2	7.8	5.5	3.2	0.9
92.5°	27.8	27.7	26.7	25.7	24.7	23.7	22.4	20.7	18.9	17.2	15.5
95°	55.8	55.8	55.4	55.0	54.7	54.2	53.1	51.1	49.2	47.3	45.4
97.5°	93.8	93.8	93.1	92.4	91.6	90.9	89.6	88.0	86.3	84.6	82.8
100°	120.4	120.4	119.8	119.2	118.6	118.0	116.9	115.4	113.8	112.3	110.7
102.5°	149.1	149.0	148.2	147.5	146.7	146.0	145.0	143.8	142.5	141.3	140.1
105°	192.3	191.8	191.5	191.1	190.7	190.3	189.9	189.2	188.6	188.0	187.5
107.5°	239.3	239.1	239.1	239.1	239.1	239.1	238.7	237.8	236.9	236.2	235.3
110°	271.2	271.2	271.2	271.2	271.2	271.2	270.6	269.5	268.3	267.2	266.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.5	304.0	304.2	304.3	304.4	304.6	304.1	303.0	301.8	300.7	299.5
115°	352.1	352.3	352.7	353.1	353.4	353.9	353.4	352.3	351.1	350.0	348.8
117.5°	399.7	400.1	401.2	402.3	403.4	404.4	404.2	402.7	401.1	399.6	398.0
120°	430.8	430.8	432.4	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8
122.5°	463.8	464.3	465.4	466.5	467.5	468.6	468.2	466.4	464.5	462.7	460.8
125°	512.2	512.8	513.3	513.9	514.5	515.1	514.5	512.8	511.0	509.3	507.6
127.5°	559.1	559.9	560.6	561.3	562.0	562.7	561.9	559.7	557.5	555.3	553.1
130°	590.9	591.2	591.7	592.0	592.5	592.8	591.8	589.3	586.7	584.2	581.7
132.5°	622.5	623.4	623.3	623.2	623.1	623.0	622.0	619.9	617.9	615.8	613.7
135°	667.8	668.0	667.6	667.2	666.8	666.4	665.2	663.1	660.9	658.8	656.7
137.5°	711.8	712.0	711.4	710.9	710.4	710.0	708.8	707.1	705.3	703.6	701.8
140°	741.2	741.2	740.3	739.3	738.4	737.4	736.0	734.3	732.5	730.8	729.0
142.5°	767.9	767.8	767.2	766.5	765.8	765.2	764.0	762.2	760.4	758.7	757.0
145°	808.6	808.4	807.3	806.1	804.9	803.7	802.5	801.2	799.8	798.4	797.0
147.5°	844.0	843.6	842.8	842.1	841.3	840.5	839.3	837.7	836.1	834.5	832.8
150°	866.5	866.0	865.2	864.4	863.7	862.9	861.9	860.7	859.5	858.4	857.2
152.5°	889.0	888.3	887.3	886.4	885.5	884.6	883.6	882.4	881.2	880.0	878.9
155°	917.5	916.5	915.9	915.4	914.8	914.2	913.6	913.1	912.5	911.9	911.3
157.5°	943.7	942.4	942.0	941.7	941.3	941.0	940.6	940.2	939.8	939.4	939.0
160°	959.6	958.4	958.2	958.0	957.9	957.6	957.3	956.9	956.6	956.1	955.8
162.5°	973.7	972.3	972.2	972.0	971.8	971.6	971.5	971.4	971.3	971.2	971.1
165°	992.0	990.7	990.7	990.7	990.7	990.7	990.8	990.9	991.2	991.4	991.5
167.5°	1007.2	1005.8	1005.9	1005.9	1006.0	1006.0	1006.3	1006.9	1007.5	1008.1	1008.7
170°	1015.5	1014.3	1014.4	1014.6	1014.8	1015.0	1015.4	1016.0	1016.6	1017.1	1017.7
172.5°	1021.8	1020.5	1020.7	1020.9	1021.1	1021.2	1021.7	1022.3	1022.8	1023.4	1024.0
175°	1028.6	1027.3	1027.7	1028.0	1028.5	1028.8	1029.3	1029.9	1030.5	1031.0	1031.7
177.5°	1032.3	1031.3	1031.7	1031.9	1032.3	1032.5	1032.9	1033.4	1033.9	1034.3	1034.8
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1910.0	1911.5	1922.1	1926.8	1936.4	1940.0	1944.3	1943.2	1943.2	1945.3	1960.1
5°	1914.1	1927.3	1947.1	1966.2	1984.7	2000.4	2011.0	2021.6	2025.6	2044.7	2061.8
7.5°	1907.2	1931.5	1964.2	1993.4	2028.3	2055.6	2078.4	2098.8	2112.8	2140.6	2169.1
10°	1898.2	1932.5	1969.5	2007.1	2055.2	2091.5	2128.5	2156.9	2166.1	2207.7	2231.5
12.5°	1880.3	1926.2	1973.2	2021.9	2069.0	2119.0	2159.6	2188.0	2220.4	2257.8	2301.6
15°	1853.4	1906.2	1967.5	2030.2	2097.5	2158.2	2201.7	2251.2	2286.8	2327.7	2366.0
17.5°	1814.7	1882.7	1960.7	2033.3	2111.1	2176.3	2236.2	2283.6	2308.8	2332.1	2337.8
20°	1784.1	1857.3	1949.0	2034.8	2112.6	2187.9	2247.2	2286.8	2293.4	2294.0	2259.1
22.5°	1750.8	1833.6	1929.5	2017.4	2110.6	2194.2	2240.4	2257.3	2231.1	2186.4	2118.7
25°	1689.7	1785.4	1896.9	1997.2	2098.8	2178.0	2193.8	2164.1	2072.4	1976.1	1854.0
27.5°	1623.5	1731.0	1850.5	1962.0	2070.3	2119.4	2085.2	1978.1	1813.0	1669.4	1495.4
30°	1574.9	1695.7	1813.1	1937.8	2038.1	2059.2	1980.7	1823.0	1630.3	1413.9	1240.4
32.5°	1519.5	1646.1	1775.1	1904.0	1988.0	1967.4	1837.6	1643.6	1417.6	1204.9	1040.9
35°	1440.3	1571.0	1710.2	1839.5	1892.9	1803.9	1609.9	1357.2	1126.3	927.6	814.9
37.5°	1348.8	1491.2	1635.9	1754.6	1750.8	1602.4	1338.2	1077.3	883.2	765.8	685.4
40°	1283.9	1427.8	1584.2	1684.5	1641.6	1448.2	1161.9	915.8	774.0	680.3	621.6
42.5°	1221.7	1366.1	1521.4	1601.0	1526.5	1288.8	1003.6	810.7	693.7	620.6	573.0
45°	1115.7	1268.1	1412.0	1456.1	1322.8	1060.9	811.6	671.7	593.8	539.7	506.7
47.5°	1012.1	1162.0	1293.3	1294.1	1113.9	860.4	684.6	581.3	514.8	472.9	448.9
50°	948.7	1091.3	1201.4	1184.3	979.8	765.3	612.3	523.2	467.8	435.5	410.4
52.5°	877.5	1015.8	1111.2	1062.4	866.3	673.5	547.3	472.5	426.6	398.5	376.1
55°	774.0	896.6	964.0	890.0	706.6	560.2	462.5	403.8	369.5	345.7	326.6
57.5°	672.2	773.4	815.8	729.7	582.0	464.5	391.2	347.2	313.1	296.1	286.2
60°	608.3	694.7	724.4	629.5	506.1	406.4	346.4	305.5	280.4	269.2	259.3
62.5°	545.5	616.1	628.4	541.3	441.2	355.8	304.2	269.6	253.0	242.3	232.9
65°	452.6	503.4	497.5	427.6	349.0	282.4	244.8	223.7	211.1	196.0	179.4
67.5°	372.6	403.6	385.0	332.5	266.4	219.5	194.9	178.9	163.3	149.0	145.2
70°	322.0	339.8	320.0	271.8	218.3	184.1	164.3	145.2	136.0	132.6	126.7
72.5°	273.5	279.7	258.2	217.0	177.7	152.4	133.1	122.4	117.4	114.7	110.8
75°	205.2	200.6	182.1	149.8	123.4	106.2	100.3	96.3	93.0	90.4	88.4
77.5°	144.1	137.3	120.9	99.8	85.9	77.7	74.1	72.1	70.4	69.1	67.2
80°	108.2	103.6	87.1	71.3	65.3	61.4	59.4	56.7	56.7	55.4	53.5
82.5°	79.2	74.0	59.7	52.3	49.0	46.6	45.1	43.6	43.0	43.3	41.8
85°	41.6	33.7	29.7	28.4	26.4	25.1	25.7	24.5	24.5	24.5	23.8
87.5°	13.3	11.1	11.1	11.0	12.2	13.1	13.3	14.2	15.6	15.0	15.4
90°	3.2	5.5	7.8	10.2	13.4	17.7	22.0	26.3	30.5	30.1	29.7
92.5°	17.2	18.9	20.7	22.4	23.7	24.7	25.7	26.7	27.7	27.8	27.9
95°	47.3	49.2	51.1	53.1	54.2	54.7	55.0	55.4	55.8	55.8	55.8
97.5°	84.6	86.3	88.0	89.6	90.9	91.6	92.4	93.1	93.8	93.8	93.8
100°	112.3	113.8	115.4	116.9	118.0	118.6	119.2	119.8	120.4	120.4	120.4
102.5°	141.3	142.5	143.8	145.0	146.0	146.7	147.5	148.2	149.0	149.1	149.3
105°	188.0	188.6	189.2	189.9	190.3	190.7	191.1	191.5	191.8	192.3	192.6
107.5°	236.2	236.9	237.8	238.7	239.1	239.1	239.1	239.1	239.1	239.3	239.4
110°	267.2	268.3	269.5	270.6	271.2	271.2	271.2	271.2	271.2	271.2	271.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	300.7	301.8	303.0	304.1	304.6	304.4	304.3	304.2	304.0	303.5	303.1
115°	350.0	351.1	352.3	353.4	353.9	353.4	353.1	352.7	352.3	352.1	351.9
117.5°	399.6	401.1	402.7	404.2	404.4	403.4	402.3	401.2	400.1	399.7	399.2
120°	432.4	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8	430.8	430.8
122.5°	462.7	464.5	466.4	468.2	468.6	467.5	466.5	465.4	464.3	463.8	463.4
125°	509.3	511.0	512.8	514.5	515.1	514.5	513.9	513.3	512.8	512.2	511.6
127.5°	555.3	557.5	559.7	561.9	562.7	562.0	561.3	560.6	559.9	559.1	558.4
130°	584.2	586.7	589.3	591.8	592.8	592.5	592.0	591.7	591.2	590.9	590.5
132.5°	615.8	617.9	619.9	622.0	623.0	623.1	623.2	623.3	623.4	622.5	621.6
135°	658.8	660.9	663.1	665.2	666.4	666.8	667.2	667.6	668.0	667.8	667.6
137.5°	703.6	705.3	707.1	708.8	710.0	710.4	710.9	711.4	712.0	711.8	711.6
140°	730.8	732.5	734.3	736.0	737.4	738.4	739.3	740.3	741.2	741.2	741.2
142.5°	758.7	760.4	762.2	764.0	765.2	765.8	766.5	767.2	767.8	767.9	768.1
145°	798.4	799.8	801.2	802.5	803.7	804.9	806.1	807.3	808.4	808.6	808.8
147.5°	834.5	836.1	837.7	839.3	840.5	841.3	842.1	842.8	843.6	844.0	844.5
150°	858.4	859.5	860.7	861.9	862.9	863.7	864.4	865.2	866.0	866.5	867.1
152.5°	880.0	881.2	882.4	883.6	884.6	885.5	886.4	887.3	888.3	889.0	889.8
155°	911.9	912.5	913.1	913.6	914.2	914.8	915.4	915.9	916.5	917.5	918.5
157.5°	939.4	939.8	940.2	940.6	941.0	941.3	941.7	942.0	942.4	943.7	945.0
160°	956.1	956.6	956.9	957.3	957.6	957.9	958.0	958.2	958.4	959.6	960.7
162.5°	971.2	971.3	971.4	971.5	971.6	971.8	972.0	972.2	972.3	973.7	975.0
165°	991.4	991.2	990.9	990.8	990.7	990.7	990.7	990.7	990.7	992.0	993.4
167.5°	1008.1	1007.5	1006.9	1006.3	1006.0	1006.0	1005.9	1005.9	1005.8	1007.2	1008.6
170°	1017.1	1016.6	1016.0	1015.4	1015.0	1014.8	1014.6	1014.4	1014.3	1015.5	1016.9
172.5°	1023.4	1022.8	1022.3	1021.7	1021.2	1021.1	1020.9	1020.7	1020.5	1021.8	1023.2
175°	1031.0	1030.5	1029.9	1029.3	1028.8	1028.5	1028.0	1027.7	1027.3	1028.6	1030.0
177.5°	1034.3	1033.9	1033.4	1032.9	1032.5	1032.3	1031.9	1031.7	1031.3	1032.3	1033.2
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1965.4	1972.2	1975.4	1975.4	1979.1	1977.5	1975.9
5°	2078.4	2090.9	2093.5	2105.4	2113.9	2111.3	2112.6
7.5°	2190.6	2210.8	2230.8	2239.9	2241.3	2246.6	2248.6
10°	2259.8	2276.3	2307.3	2302.7	2325.7	2339.0	2317.2
12.5°	2326.2	2348.5	2370.1	2376.0	2389.1	2393.3	2384.7
15°	2386.4	2398.3	2399.7	2396.3	2400.3	2397.0	2384.5
17.5°	2330.2	2311.0	2271.9	2253.4	2238.8	2217.2	2208.5
20°	2237.3	2180.6	2114.6	2088.3	2057.2	1996.5	2011.0
22.5°	2036.8	1972.1	1906.2	1829.1	1792.3	1734.7	1731.3
25°	1724.7	1613.2	1490.5	1404.7	1354.5	1297.2	1272.0
27.5°	1340.9	1200.6	1100.0	1049.0	1002.7	957.3	955.4
30°	1088.6	983.1	905.3	861.7	833.3	814.2	818.1
32.5°	917.7	845.3	792.8	756.6	735.6	721.3	721.0
35°	750.2	700.7	667.0	651.9	636.7	626.1	626.8
37.5°	642.0	612.3	593.6	576.8	567.3	562.1	559.2
40°	586.5	562.1	547.6	537.7	529.8	522.5	521.2
42.5°	542.8	522.5	508.1	500.2	492.8	487.8	486.4
45°	481.6	465.1	451.9	443.4	440.1	435.5	435.5
47.5°	428.4	412.2	401.9	396.6	390.9	387.8	387.7
50°	392.6	380.0	370.8	367.5	362.9	360.9	360.2
52.5°	360.4	351.0	344.4	342.2	340.2	337.7	338.1
55°	316.7	311.4	308.8	306.8	303.5	299.5	302.2
57.5°	279.9	275.4	268.3	262.1	259.1	256.2	257.4
60°	254.0	244.8	235.6	228.3	226.3	220.3	220.3
62.5°	221.3	208.4	197.0	193.0	191.0	188.2	187.6
65°	170.2	165.0	162.3	159.6	158.3	158.3	157.0
67.5°	141.0	139.0	136.0	135.3	134.1	133.7	133.3
70°	124.7	122.1	120.7	120.1	118.7	119.4	117.4
72.5°	108.8	106.8	106.5	104.8	104.0	104.1	102.6
75°	85.8	85.8	85.2	84.5	83.2	82.5	83.2
77.5°	66.0	66.1	64.9	64.8	64.7	64.8	64.1
80°	52.8	53.5	52.8	52.1	51.5	52.1	51.5
82.5°	41.7	40.8	40.6	40.6	40.4	40.0	39.9
85°	23.8	24.5	23.8	23.1	23.1	23.1	23.8
87.5°	14.8	14.8	14.7	14.8	14.8	14.9	14.4
90°	29.4	28.9	28.8	29.1	29.3	29.4	29.6
92.5°	28.0	28.1	28.1	28.2	28.2	28.2	28.2
95°	55.8	55.8	55.6	55.2	54.8	54.4	54.1
97.5°	93.8	93.8	93.8	93.8	93.8	93.7	93.7
100°	120.4	120.4	120.3	120.0	119.9	119.7	119.5
102.5°	149.4	149.6	149.6	149.4	149.1	149.0	148.8
105°	193.0	193.4	193.6	193.6	193.6	193.6	193.6
107.5°	239.6	239.7	239.4	238.5	237.5	236.7	235.8
110°	271.2	271.2	271.0	270.4	269.8	269.1	268.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	302.6	302.1	301.7	301.3	300.8	300.4	300.0
115°	351.7	351.5	351.1	350.6	350.0	349.4	348.8
117.5°	398.7	398.2	397.7	397.2	396.6	396.0	395.4
120°	430.8	430.8	430.5	429.9	429.4	428.8	428.2
122.5°	462.9	462.4	462.0	461.6	461.2	460.7	460.3
125°	511.0	510.5	510.1	509.9	509.7	509.5	509.3
127.5°	557.8	557.1	556.4	555.8	555.2	554.6	554.0
130°	590.1	589.7	589.1	588.3	587.5	586.8	586.0
132.5°	620.8	619.9	619.2	618.6	617.9	617.3	616.7
135°	667.4	667.2	666.8	666.2	665.6	665.1	664.5
137.5°	711.5	711.4	710.8	710.1	709.3	708.5	707.7
140°	741.2	741.2	740.9	740.1	739.3	738.6	737.8
142.5°	768.3	768.4	768.1	767.3	766.5	765.8	765.0
145°	809.0	809.2	808.9	808.1	807.4	806.6	805.8
147.5°	844.9	845.3	845.2	844.5	843.7	843.0	842.2
150°	867.7	868.3	868.3	867.7	867.1	866.5	866.0
152.5°	890.5	891.2	891.2	890.5	889.8	889.0	888.3
155°	919.5	920.4	920.6	920.1	919.5	918.9	918.3
157.5°	946.3	947.6	947.8	946.9	946.0	945.0	944.1
160°	961.9	963.0	963.3	962.5	961.7	961.0	960.2
162.5°	976.3	977.7	977.8	976.9	975.9	975.0	974.1
165°	994.7	996.1	996.3	995.3	994.4	993.4	992.4
167.5°	1010.0	1011.2	1011.4	1010.5	1009.4	1008.4	1007.5
170°	1018.3	1019.7	1019.8	1018.6	1017.4	1016.2	1015.1
172.5°	1024.6	1025.9	1026.1	1024.8	1023.7	1022.5	1021.4
175°	1031.4	1032.7	1032.9	1031.7	1030.5	1029.3	1028.2
177.5°	1034.1	1035.0	1035.0	1034.1	1033.2	1032.3	1031.3
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4

(END OF REPORT)