

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: P332379-927

Luminaire Tested: **S123RDIP-S1165D1025U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332379-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1165D1025U927-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

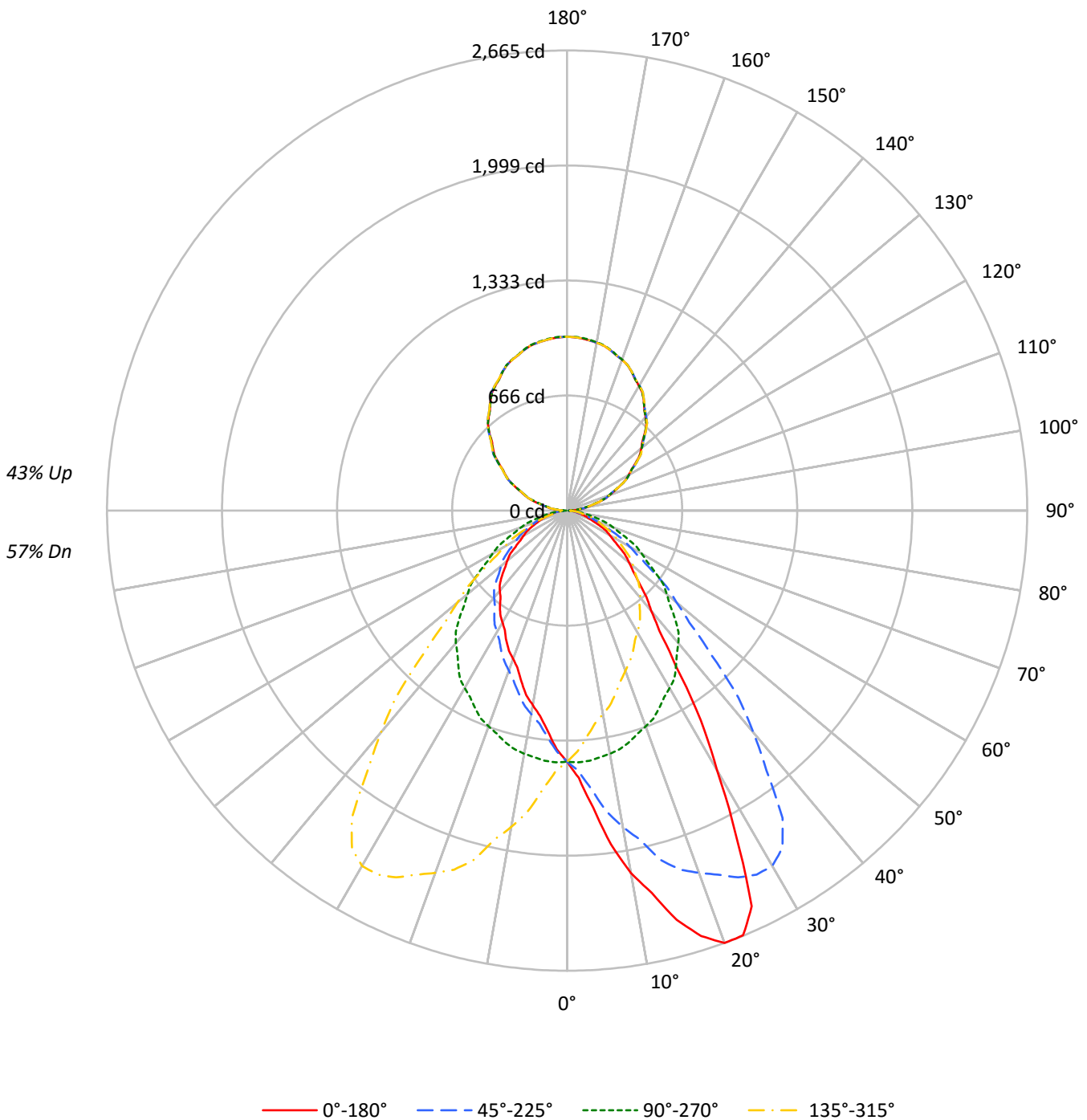
Lumens per Lamp: N/A  
Luminaire Lumens: 6413.4 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	100	96	92	89	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	92	84	79	74	85	79	74	69	68	65	61	59	56	54	50	48	46	42
3	84	75	68	62	78	70	64	59	61	56	52	53	49	46	45	42	40	36
4	77	67	59	53	72	62	56	50	55	49	45	47	43	40	41	38	35	32
5	71	60	52	46	66	56	49	44	49	44	39	43	39	35	37	34	31	28
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	30	28	25
7	61	49	41	36	57	46	39	34	41	35	31	36	31	28	31	27	25	22
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	28	25	22	20
9	53	41	33	28	49	39	32	27	34	29	25	30	26	23	26	23	20	18
10	49	37	30	26	46	35	29	25	32	26	23	28	24	21	24	21	19	17

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

	0°	90°	180°	270°
0°	15655	15655	15655	15655
5°	18662	15722	13846	15722
10°	23302	15632	12508	15632
15°	27351	15473	11407	15473
20°	30525	15234	10470	15234
25°	30037	14982	9894	14982
30°	21592	14751	9302	14751
35°	14416	14448	8918	14448
40°	10621	14085	8521	14085
45°	8910	13449	8132	13449
50°	7860	12616	7591	12616
55°	6893	11661	6848	11661
60°	6140	10749	6273	10749
65°	5392	9770	5835	9770
70°	4233	8897	5331	8897
75°	3730	7769	4870	7769
80°	3242	6602	4785	6602
85°	2618	5298	5076	5298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	2.2
10°-20°	446.9	7.0
20°-30°	702.0	10.9
30°-40°	732.4	11.4
40°-50°	626.8	9.8
50°-60°	477.7	7.4
60°-70°	306.2	4.8
70°-80°	147.3	2.3
80°-90°	42.0	0.7
90°-100°	65.6	1.0
100°-110°	196.3	3.1
110°-120°	333.8	5.2
120°-130°	439.1	6.8
130°-140°	493.6	7.7
140°-150°	485.2	7.6
150°-160°	408.4	6.4
160°-170°	271.9	4.2
170°-180°	95.2	1.5
0°-30°	1291.9	20.1
0°-40°	2024.3	31.6
0°-60°	3128.9	48.8
0°-90°	3624.4	56.5
90°-120°	595.7	9.3
90°-150°	2013.5	31.4
90°-180°	2789.0	43.5
0°-180°	6413.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1454	1454	1454	1454	1454	
5°	1727	1455	1281	1455	1727	178
15°	2454	1388	1024	1388	2454	696
25°	2529	1262	833	1262	2529	1087
35°	1097	1100	679	1100	1097	719
45°	585	884	534	884	585	460
55°	367	621	365	621	367	332
65°	212	384	229	384	212	208
75°	90	187	117	187	90	96
85°	21	43	41	43	21	25
90°	24	1	24	1	24	12
95°	62	47	62	47	62	63
105°	188	178	188	178	188	200
115°	337	336	337	336	337	333
125°	486	492	486	492	486	435
135°	637	638	637	638	637	490
145°	774	774	774	774	774	483
155°	885	886	885	886	885	407
165°	962	966	962	966	962	271
175°	1000	1004	1000	1004	1000	95
180°	1007	1007	1007	1007	1007	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1549.1	1551.1	1544.6	1543.6	1536.1	1534.1	1534.1	1523.7	1517.2	1508.8	1503.8
5°	1727.2	1737.2	1732.2	1720.9	1702.2	1697.9	1686.1	1667.4	1646.2	1620.1	1607.7
7.5°	1949.6	1963.2	1958.0	1940.6	1921.0	1905.3	1871.8	1840.9	1797.4	1759.3	1726.6
10°	2131.9	2117.6	2106.3	2089.5	2071.5	2042.2	2007.4	1959.4	1904.0	1860.4	1811.9
12.5°	2268.3	2266.0	2251.8	2234.5	2209.0	2181.2	2138.3	2080.0	2015.5	1952.6	1897.0
15°	2454.4	2458.1	2448.8	2430.7	2394.6	2345.4	2280.7	2256.5	2164.2	2095.8	2027.3
17.5°	2583.1	2582.4	2581.2	2556.1	2519.3	2484.3	2424.2	2360.4	2277.0	2180.5	2088.2
20°	2664.8	2658.6	2659.9	2631.9	2604.5	2564.0	2505.4	2412.7	2344.2	2232.8	2137.5
22.5°	2662.8	2661.7	2666.3	2656.7	2636.9	2605.8	2559.8	2481.4	2394.1	2281.6	2174.4
25°	2529.1	2524.1	2553.4	2561.5	2593.3	2598.8	2585.1	2542.2	2459.4	2343.6	2211.0
27.5°	2116.7	2113.9	2168.3	2236.3	2322.4	2389.4	2454.2	2485.4	2459.4	2376.5	2243.6
30°	1737.2	1795.6	1823.0	1921.4	2031.0	2161.8	2276.3	2385.3	2412.0	2376.0	2267.0
32.5°	1442.2	1493.3	1516.2	1600.7	1702.8	1855.9	2027.7	2182.1	2291.1	2318.6	2253.0
35°	1097.1	1097.7	1150.0	1187.3	1282.0	1439.6	1606.4	1813.1	2018.6	2174.2	2190.4
37.5°	875.4	878.5	910.1	947.4	1018.4	1101.7	1248.6	1420.5	1657.8	1896.8	2036.9
40°	755.9	761.4	785.1	821.9	872.9	935.8	1050.4	1212.3	1410.2	1676.1	1893.4
42.5°	679.1	688.2	700.4	728.7	760.3	819.3	911.9	1037.0	1217.0	1468.4	1719.1
45°	585.3	590.3	599.6	612.7	641.3	682.4	744.7	828.7	978.2	1180.5	1431.4
47.5°	516.3	513.7	523.5	534.1	553.2	581.1	622.9	691.5	798.1	960.4	1173.3
50°	469.4	468.8	475.7	483.8	501.8	522.4	556.7	608.3	693.0	827.5	1022.4
52.5°	425.6	428.0	432.8	442.9	456.0	472.6	503.4	540.6	613.3	729.4	891.8
55°	367.3	369.2	376.0	381.7	391.0	407.8	427.1	458.3	508.1	589.0	722.9
57.5°	318.1	317.2	323.8	325.1	335.7	349.4	364.3	388.5	424.6	484.8	575.0
60°	285.2	283.3	288.9	293.3	298.9	310.1	322.5	346.2	374.9	419.1	496.2
62.5°	255.2	254.4	258.5	262.8	267.5	277.7	288.1	306.3	329.0	366.2	427.5
65°	211.7	213.6	215.4	217.3	219.8	226.0	236.0	248.4	264.0	290.2	334.4
67.5°	166.4	168.3	168.9	172.7	178.1	182.0	188.1	199.2	209.9	232.0	257.1
70°	134.5	133.9	134.5	136.3	143.2	150.0	158.1	166.3	173.1	188.6	209.8
72.5°	115.6	114.5	116.1	116.5	119.8	121.7	126.7	134.4	143.2	153.8	169.0
75°	89.7	89.7	89.7	89.7	92.1	93.4	95.3	97.1	100.2	105.2	116.5
77.5°	66.2	66.4	67.3	67.9	68.4	69.1	70.3	72.1	73.2	75.8	80.7
80°	52.3	52.9	52.3	52.9	52.9	54.2	54.8	56.6	57.3	60.4	62.3
82.5°	39.4	39.0	39.4	40.0	40.0	41.2	41.4	42.7	42.9	44.4	46.3
85°	21.2	20.0	21.2	20.5	21.8	20.5	21.2	22.4	22.4	23.1	25.5
87.5°	9.7	10.6	9.6	10.0	10.0	10.3	10.2	10.1	10.9	10.3	10.3
90°	23.7	23.4	23.1	22.7	22.3	21.8	21.1	20.4	19.6	19.0	16.7
92.5°	31.9	32.2	32.4	32.6	32.8	32.6	32.1	31.5	30.9	30.3	29.1
95°	61.7	61.7	61.7	61.7	61.7	61.3	60.6	59.9	59.3	58.5	57.1
97.5°	94.9	95.0	95.1	95.1	95.1	94.8	94.0	93.2	92.4	91.6	90.5
100°	120.2	119.9	119.5	119.1	118.8	118.4	117.8	117.3	116.8	116.2	115.3
102.5°	146.2	146.2	146.2	146.3	146.4	146.2	145.7	145.1	144.6	144.1	142.9
105°	188.2	187.8	187.5	187.1	186.8	186.6	186.6	186.6	186.6	186.6	185.1
107.5°	232.0	232.2	232.4	232.7	232.8	232.7	232.1	231.6	231.0	230.4	229.8
110°	261.7	262.1	262.4	262.8	263.2	263.0	262.3	261.6	260.9	260.2	259.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	293.3	293.4	293.5	293.6	293.7	293.3	292.4	291.6	290.7	289.9	289.9
115°	336.8	337.1	337.2	337.4	337.5	337.5	337.4	337.2	337.1	336.8	337.2
117.5°	381.0	381.5	382.0	382.5	382.9	383.3	383.3	383.3	383.3	383.3	383.8
120°	412.0	412.3	412.7	413.0	413.4	413.7	413.8	414.0	414.2	414.4	415.3
122.5°	441.7	442.2	442.7	443.2	443.7	444.2	444.7	445.0	445.5	446.0	446.5
125°	486.3	487.0	487.7	488.5	489.1	489.8	490.5	491.2	491.9	492.7	493.0
127.5°	530.8	531.6	532.3	533.2	534.0	534.9	535.9	536.9	537.8	538.8	539.2
130°	559.8	561.1	562.3	563.6	564.7	565.8	566.4	567.1	567.8	568.5	569.1
132.5°	590.3	591.2	592.2	593.1	594.1	594.9	595.8	596.6	597.5	598.3	598.7
135°	637.4	637.7	638.0	638.4	638.7	639.3	640.0	640.7	641.4	642.1	642.3
137.5°	679.0	679.6	680.2	681.0	681.6	682.3	683.1	683.8	684.5	685.2	684.8
140°	706.2	707.4	708.6	709.9	711.1	711.8	711.9	712.1	712.3	712.5	712.3
142.5°	734.0	734.9	735.9	736.8	737.8	738.3	738.6	738.7	738.9	739.0	738.7
145°	774.1	774.8	775.5	776.3	777.0	777.4	777.6	777.8	777.9	778.1	777.6
147.5°	809.9	811.0	812.0	813.1	814.1	814.7	814.7	814.7	814.7	814.7	814.1
150°	832.7	833.7	834.8	835.8	836.9	837.4	837.4	837.4	837.4	837.4	837.1
152.5°	854.8	855.7	856.7	857.5	858.5	858.8	858.5	858.3	857.9	857.7	857.5
155°	884.9	886.1	887.3	888.6	889.8	890.0	889.4	888.7	888.0	887.2	887.1
157.5°	912.2	913.2	914.2	915.2	916.2	916.3	915.5	914.8	914.1	913.3	913.2
160°	929.9	930.7	931.4	932.1	932.7	932.6	931.8	930.9	930.0	929.2	929.2
162.5°	943.3	944.4	945.5	946.6	947.7	947.8	947.0	946.1	945.2	944.4	944.2
165°	962.3	963.6	964.8	966.1	967.3	967.3	966.3	965.3	964.2	963.1	963.1
167.5°	978.7	979.8	980.8	981.9	983.0	983.0	981.9	980.8	979.8	978.7	978.5
170°	986.9	988.1	989.4	990.5	991.8	991.8	990.5	989.4	988.1	986.9	986.9
172.5°	993.2	994.4	995.7	996.9	998.1	998.1	997.1	996.0	994.9	993.8	993.8
175°	1000.3	1001.6	1002.7	1004.0	1005.2	1005.4	1004.2	1003.2	1002.2	1001.1	1001.1
177.5°	1004.1	1005.1	1006.1	1007.1	1008.1	1008.1	1007.3	1006.5	1005.6	1004.7	1004.7
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1501.8	1500.3	1493.3	1485.3	1474.9	1467.9	1462.4	1459.4	1450.5	1439.6	1432.0
5°	1594.6	1575.9	1555.9	1531.7	1509.3	1486.2	1471.9	1455.1	1434.6	1411.5	1395.3
7.5°	1693.9	1657.3	1617.9	1577.2	1536.9	1500.8	1468.9	1441.6	1408.9	1375.9	1352.7
10°	1770.1	1716.6	1661.2	1604.5	1552.8	1504.3	1466.9	1430.2	1391.0	1353.0	1324.4
12.5°	1839.4	1768.9	1705.0	1635.4	1569.3	1511.2	1457.5	1414.2	1367.1	1326.6	1294.0
15°	1927.1	1854.8	1777.6	1671.7	1584.0	1510.5	1445.1	1388.5	1331.2	1281.4	1249.6
17.5°	2009.0	1900.3	1796.5	1708.3	1594.2	1502.4	1422.6	1354.9	1292.0	1239.1	1200.1
20°	2042.9	1937.6	1825.0	1712.2	1600.1	1497.5	1404.6	1329.9	1264.6	1204.8	1168.7
22.5°	2063.2	1944.1	1825.4	1704.3	1585.2	1478.5	1386.7	1304.6	1233.7	1176.9	1132.3
25°	2087.1	1945.1	1814.3	1694.8	1573.4	1457.6	1348.6	1261.5	1184.9	1124.5	1077.1
27.5°	2102.8	1935.8	1781.2	1648.4	1525.2	1409.8	1310.0	1217.6	1140.0	1076.0	1025.2
30°	2105.7	1928.3	1755.8	1612.0	1486.8	1381.0	1275.2	1186.8	1104.5	1036.6	989.4
32.5°	2109.7	1909.9	1721.4	1568.7	1440.5	1335.7	1239.8	1155.3	1071.2	1004.3	956.0
35°	2093.3	1899.7	1669.3	1493.7	1365.4	1263.9	1177.4	1099.5	1016.8	952.0	902.9
37.5°	2022.5	1859.2	1615.3	1409.3	1275.2	1181.1	1110.6	1042.7	966.9	897.0	850.6
40°	1951.3	1819.3	1573.4	1358.0	1217.9	1121.3	1057.9	1002.4	929.0	863.6	813.8
42.5°	1845.2	1765.1	1533.5	1304.2	1153.1	1060.1	1006.5	954.6	890.1	823.7	776.9
45°	1650.6	1661.2	1452.0	1218.5	1063.4	970.0	919.6	883.5	826.2	771.4	723.5
47.5°	1406.5	1505.5	1356.2	1127.2	968.9	881.3	837.2	805.6	767.1	713.3	669.6
50°	1247.1	1388.5	1279.5	1066.0	909.7	822.5	778.9	753.4	719.8	677.4	635.7
52.5°	1100.2	1252.0	1186.8	997.7	845.4	765.7	723.1	702.1	675.4	635.6	597.9
55°	897.2	1051.0	1036.1	894.7	749.0	677.4	645.1	621.4	603.3	573.5	543.6
57.5°	725.7	871.6	879.2	780.1	664.1	593.3	565.5	547.6	535.8	513.3	485.7
60°	617.7	751.5	777.7	703.0	603.3	541.1	513.7	499.3	490.0	472.0	450.8
62.5°	528.0	641.9	671.5	617.7	545.0	486.8	465.3	451.5	445.2	429.6	410.9
65°	404.1	498.8	527.4	497.5	459.5	412.8	395.4	383.6	378.0	369.2	355.5
67.5°	303.9	372.8	404.3	383.2	369.5	339.9	328.8	322.5	317.5	311.6	300.1
70°	244.1	295.1	327.5	321.9	310.7	295.1	287.0	282.7	277.7	272.7	262.8
72.5°	196.2	231.4	261.7	264.6	255.4	252.3	245.2	243.4	240.3	234.3	228.9
75°	130.2	154.4	175.5	183.7	187.4	190.5	187.4	186.8	186.2	181.2	178.1
77.5°	85.3	98.4	111.7	125.6	131.3	135.6	136.6	138.9	137.2	134.6	133.1
80°	65.4	68.5	77.8	89.7	99.0	102.7	105.2	106.5	105.8	105.2	102.7
82.5°	47.5	50.1	54.4	62.7	70.6	76.8	78.3	78.1	79.5	79.9	77.8
85°	25.5	26.1	27.4	28.7	33.0	39.8	41.7	42.9	44.2	44.2	40.5
87.5°	10.9	9.9	10.5	10.1	11.2	11.3	13.9	16.1	17.0	15.3	15.7
90°	14.4	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	27.7	26.5	25.2	23.9	22.7	21.5	20.4	19.2	20.4	21.5	22.7
95°	55.7	54.3	52.9	51.6	50.4	49.1	47.8	46.7	47.8	49.1	50.4
97.5°	89.5	88.5	87.5	86.5	85.6	84.7	83.8	82.9	83.8	84.7	85.6
100°	114.5	113.6	112.7	111.8	110.7	109.6	108.6	107.6	108.6	109.6	110.7
102.5°	141.7	140.6	139.4	138.6	137.9	137.3	136.7	136.0	136.7	137.3	137.9
105°	183.5	181.9	180.3	179.4	179.0	178.6	178.2	177.9	178.2	178.6	179.0
107.5°	229.2	228.5	227.9	227.5	227.3	227.0	226.9	226.6	226.9	227.0	227.3
110°	259.4	259.1	258.7	258.4	258.0	257.7	257.4	257.0	257.4	257.7	258.0





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	289.8	289.7	289.6	289.5	289.2	289.1	288.8	288.6	288.8	289.1	289.2
115°	337.5	337.9	338.3	338.2	337.6	337.2	336.6	336.0	336.6	337.2	337.6
117.5°	384.3	384.8	385.2	385.2	384.9	384.5	384.2	383.8	384.2	384.5	384.9
120°	416.1	417.0	417.9	417.8	416.8	415.7	414.6	413.6	414.6	415.7	416.8
122.5°	446.9	447.3	447.8	447.7	446.9	446.1	445.4	444.6	445.4	446.1	446.9
125°	493.4	493.7	494.1	493.9	493.5	492.9	492.4	491.9	492.4	492.9	493.5
127.5°	539.6	540.0	540.3	540.0	538.8	537.7	536.6	535.5	536.6	537.7	538.8
130°	569.6	570.1	570.7	570.2	568.8	567.4	566.0	564.6	566.0	567.4	568.8
132.5°	599.0	599.4	599.8	599.4	597.9	596.5	595.1	593.7	595.1	596.5	597.9
135°	642.5	642.6	642.8	642.4	641.3	640.2	639.2	638.2	639.2	640.2	641.3
137.5°	684.4	683.9	683.4	682.8	681.9	681.0	680.2	679.3	680.2	681.0	681.9
140°	712.1	711.9	711.8	711.2	710.3	709.5	708.6	707.7	708.6	709.5	710.3
142.5°	738.4	738.1	737.8	737.2	736.3	735.5	734.5	733.6	734.5	735.5	736.3
145°	777.1	776.5	776.0	775.5	775.2	774.8	774.5	774.1	774.5	774.8	775.2
147.5°	813.7	813.2	812.7	812.1	811.5	810.9	810.2	809.6	810.2	810.9	811.5
150°	836.7	836.4	836.0	835.7	835.3	835.0	834.6	834.2	834.6	835.0	835.3
152.5°	857.2	857.1	856.8	856.4	856.0	855.5	855.0	854.5	855.0	855.5	856.0
155°	886.8	886.7	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5
157.5°	913.1	912.9	912.8	912.8	913.0	913.2	913.5	913.6	913.5	913.2	913.0
160°	929.2	929.2	929.2	929.3	929.7	930.0	930.3	930.7	930.3	930.0	929.7
162.5°	944.0	943.9	943.8	944.0	944.4	944.9	945.4	945.9	945.4	944.9	944.4
165°	963.1	963.1	963.1	963.5	963.9	964.5	965.0	965.5	965.0	964.5	963.9
167.5°	978.3	978.3	978.1	978.3	979.1	979.8	980.5	981.2	980.5	979.8	979.1
170°	986.9	986.9	986.9	987.2	987.9	988.6	989.4	990.1	989.4	988.6	987.9
172.5°	993.8	993.8	993.8	994.2	994.9	995.6	996.3	997.0	996.3	995.6	994.9
175°	1001.1	1001.1	1001.1	1001.5	1002.2	1002.8	1003.5	1004.2	1003.5	1002.8	1002.2
177.5°	1004.7	1004.7	1004.7	1005.0	1005.6	1006.2	1006.7	1007.3	1006.7	1006.2	1005.6
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



TEST NUMBER: P332379-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1429.6	1423.1	1418.6	1408.7	1402.2	1395.2	1388.2	1392.7	1392.2	1391.7	1391.7
5°	1381.6	1367.3	1354.2	1337.4	1326.8	1313.8	1303.8	1302.5	1305.0	1296.3	1291.3
7.5°	1334.0	1314.5	1295.9	1277.4	1257.7	1242.1	1232.2	1227.6	1221.2	1215.8	1210.3
10°	1300.7	1277.6	1259.6	1236.5	1215.4	1196.7	1184.9	1176.8	1172.4	1168.1	1160.0
12.5°	1266.3	1243.8	1220.8	1194.7	1174.6	1152.9	1144.0	1135.0	1126.6	1121.7	1110.6
15°	1216.0	1186.8	1162.4	1135.0	1112.6	1091.5	1079.0	1061.0	1058.4	1052.3	1041.0
17.5°	1165.5	1133.8	1100.3	1080.0	1054.7	1032.7	1013.8	1007.7	989.8	983.1	973.4
20°	1125.7	1096.5	1071.0	1044.2	1007.4	986.9	971.9	963.8	949.5	940.8	934.5
22.5°	1091.3	1061.6	1032.1	1000.8	970.6	947.5	936.6	924.0	916.2	904.0	897.2
25°	1042.3	1009.9	974.4	940.8	919.0	901.6	884.2	872.9	861.7	856.1	843.7
27.5°	985.2	951.4	918.2	892.7	865.9	848.7	833.0	823.0	809.5	800.1	793.2
30°	953.9	914.0	885.3	862.4	828.1	811.9	800.1	787.7	777.7	767.7	760.9
32.5°	917.5	881.1	854.0	825.5	799.2	781.5	766.2	755.3	746.8	737.3	730.5
35°	860.5	830.0	801.9	773.3	754.0	735.9	717.9	708.5	700.4	691.7	685.6
37.5°	808.9	780.4	753.8	726.6	702.7	688.0	673.4	666.3	655.4	649.5	643.2
40°	777.1	749.0	720.4	694.3	669.3	658.1	645.1	634.5	624.5	620.1	613.3
42.5°	742.2	714.2	690.0	661.9	641.4	626.2	614.2	602.6	595.1	588.7	584.9
45°	690.5	665.6	641.9	613.9	594.6	581.5	567.8	557.2	550.4	546.1	539.2
47.5°	640.3	615.4	591.4	567.0	548.3	533.4	519.7	512.3	503.2	497.9	493.2
50°	604.0	581.5	556.0	533.6	514.9	499.9	488.8	479.4	471.3	464.5	461.4
52.5°	570.6	546.7	524.7	503.7	484.0	467.1	456.9	447.0	440.9	433.1	429.5
55°	515.6	492.5	473.8	453.3	434.0	419.6	407.2	398.5	392.3	383.6	378.6
57.5°	463.8	443.2	420.9	403.1	383.2	371.1	360.8	349.0	341.4	334.5	329.6
60°	429.0	405.4	386.0	369.2	351.8	336.2	326.9	317.5	309.4	302.6	298.3
62.5°	392.6	371.9	353.6	335.3	319.4	305.9	295.0	287.2	280.0	275.7	271.3
65°	336.8	320.7	302.0	287.0	272.1	262.1	253.4	246.5	241.6	238.4	234.7
67.5°	285.5	269.8	253.5	238.8	228.9	221.3	215.6	209.7	207.2	203.2	200.7
70°	252.2	236.0	221.7	210.5	200.5	194.9	191.2	186.8	184.3	179.4	176.8
72.5°	215.8	204.1	193.8	184.6	176.6	171.5	166.8	161.4	157.4	151.9	149.4
75°	170.0	159.4	151.3	145.0	140.1	133.2	126.4	120.8	118.9	117.1	116.5
77.5°	125.9	119.1	113.3	108.1	101.9	96.9	95.4	94.1	93.8	92.8	92.8
80°	99.0	92.8	88.4	82.1	78.4	78.4	78.4	77.2	77.8	77.8	77.8
82.5°	73.6	67.9	65.5	63.3	62.5	63.0	63.0	63.3	62.9	63.8	63.4
85°	37.9	38.6	39.8	39.2	39.8	39.8	41.1	40.5	41.1	39.8	41.1
87.5°	15.5	17.4	18.4	19.3	20.3	20.2	20.8	21.0	21.6	21.8	21.9
90°	7.8	9.8	12.1	14.4	16.7	19.0	19.6	20.4	21.1	21.8	22.3
92.5°	23.9	25.2	26.5	27.7	29.1	30.3	30.9	31.5	32.1	32.6	32.8
95°	51.6	52.9	54.3	55.7	57.1	58.5	59.3	59.9	60.6	61.3	61.7
97.5°	86.5	87.5	88.5	89.5	90.5	91.6	92.4	93.2	94.0	94.8	95.1
100°	111.8	112.7	113.6	114.5	115.3	116.2	116.8	117.3	117.8	118.4	118.8
102.5°	138.6	139.4	140.6	141.7	142.9	144.1	144.6	145.1	145.7	146.2	146.4
105°	179.4	180.3	181.9	183.5	185.1	186.6	186.6	186.6	186.6	186.6	186.8
107.5°	227.5	227.9	228.5	229.2	229.8	230.4	231.0	231.6	232.1	232.7	232.8
110°	258.4	258.7	259.1	259.4	259.8	260.2	260.9	261.6	262.3	263.0	263.2



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	289.5	289.6	289.7	289.8	289.9	289.9	290.7	291.6	292.4	293.3	293.7
115°	338.2	338.3	337.9	337.5	337.2	336.8	337.1	337.2	337.4	337.5	337.5
117.5°	385.2	385.2	384.8	384.3	383.8	383.3	383.3	383.3	383.3	383.3	382.9
120°	417.8	417.9	417.0	416.1	415.3	414.4	414.2	414.0	413.8	413.7	413.4
122.5°	447.7	447.8	447.3	446.9	446.5	446.0	445.5	445.0	444.7	444.2	443.7
125°	493.9	494.1	493.7	493.4	493.0	492.7	491.9	491.2	490.5	489.8	489.1
127.5°	540.0	540.3	540.0	539.6	539.2	538.8	537.8	536.9	535.9	534.9	534.0
130°	570.2	570.7	570.1	569.6	569.1	568.5	567.8	567.1	566.4	565.8	564.7
132.5°	599.4	599.8	599.4	599.0	598.7	598.3	597.5	596.6	595.8	594.9	594.1
135°	642.4	642.8	642.6	642.5	642.3	642.1	641.4	640.7	640.0	639.3	638.7
137.5°	682.8	683.4	683.9	684.4	684.8	685.2	684.5	683.8	683.1	682.3	681.6
140°	711.2	711.8	711.9	712.1	712.3	712.5	712.3	712.1	711.9	711.8	711.1
142.5°	737.2	737.8	738.1	738.4	738.7	739.0	738.9	738.7	738.6	738.3	737.8
145°	775.5	776.0	776.5	777.1	777.6	778.1	777.9	777.8	777.6	777.4	777.0
147.5°	812.1	812.7	813.2	813.7	814.1	814.7	814.7	814.7	814.7	814.7	814.1
150°	835.7	836.0	836.4	836.7	837.1	837.4	837.4	837.4	837.4	837.4	836.9
152.5°	856.4	856.8	857.1	857.2	857.5	857.7	857.9	858.3	858.5	858.8	858.5
155°	886.5	886.5	886.7	886.8	887.1	887.2	888.0	888.7	889.4	890.0	889.8
157.5°	912.8	912.8	912.9	913.1	913.2	913.3	914.1	914.8	915.5	916.3	916.2
160°	929.3	929.2	929.2	929.2	929.2	929.2	930.0	930.9	931.8	932.6	932.7
162.5°	944.0	943.8	943.9	944.0	944.2	944.4	945.2	946.1	947.0	947.8	947.7
165°	963.5	963.1	963.1	963.1	963.1	963.1	964.2	965.3	966.3	967.3	967.3
167.5°	978.3	978.1	978.3	978.3	978.5	978.7	979.8	980.8	981.9	983.0	983.0
170°	987.2	986.9	986.9	986.9	986.9	986.9	988.1	989.4	990.5	991.8	991.8
172.5°	994.2	993.8	993.8	993.8	993.8	993.8	994.9	996.0	997.1	998.1	998.1
175°	1001.5	1001.1	1001.1	1001.1	1001.1	1001.1	1002.2	1003.2	1004.2	1005.4	1005.2
177.5°	1005.0	1004.7	1004.7	1004.7	1004.7	1004.7	1005.6	1006.5	1007.3	1008.1	1008.1
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1385.8	1385.2	1385.8	1383.7	1385.8	1385.2	1385.8	1391.7	1391.7	1392.2	1392.7
5°	1289.4	1288.9	1287.0	1281.4	1287.0	1288.9	1289.4	1291.3	1296.3	1305.0	1302.5
7.5°	1205.4	1204.5	1199.0	1199.2	1199.0	1204.5	1205.4	1210.3	1215.8	1221.2	1227.6
10°	1155.6	1156.2	1148.7	1144.4	1148.7	1156.2	1155.6	1160.0	1168.1	1172.4	1176.8
12.5°	1107.3	1104.5	1098.4	1093.6	1098.4	1104.5	1107.3	1110.6	1121.7	1126.6	1135.0
15°	1043.5	1037.3	1022.4	1023.6	1022.4	1037.3	1043.5	1041.0	1052.3	1058.4	1061.0
17.5°	968.4	963.8	963.6	954.9	963.6	963.8	968.4	973.4	983.1	989.8	1007.7
20°	924.6	921.5	922.7	914.0	922.7	921.5	924.6	934.5	940.8	949.5	963.8
22.5°	890.3	887.1	881.9	879.2	881.9	887.1	890.3	897.2	904.0	916.2	924.0
25°	840.0	835.0	830.0	833.1	830.0	835.0	840.0	843.7	856.1	861.7	872.9
27.5°	789.6	785.9	780.9	780.3	780.9	785.9	789.6	793.2	800.1	809.5	823.0
30°	757.7	754.0	751.5	748.4	751.5	754.0	757.7	760.9	767.7	777.7	787.7
32.5°	725.4	724.6	720.2	719.5	720.2	724.6	725.4	730.5	737.3	746.8	755.3
35°	683.0	679.3	678.0	678.7	678.0	679.3	683.0	685.6	691.7	700.4	708.5
37.5°	642.8	637.8	635.6	633.3	635.6	637.8	642.8	643.2	649.5	655.4	666.3
40°	613.9	609.0	607.7	606.4	607.7	609.0	613.9	613.3	620.1	624.5	634.5
42.5°	581.5	579.6	578.8	576.6	578.8	579.6	581.5	584.9	588.7	595.1	602.6
45°	537.3	536.7	533.0	534.2	533.0	536.7	537.3	539.2	546.1	550.4	557.2
47.5°	490.8	488.0	485.4	487.1	485.4	488.0	490.8	493.2	497.9	503.2	512.3
50°	458.9	457.6	452.0	453.3	452.0	457.6	458.9	461.4	464.5	471.3	479.4
52.5°	427.0	422.2	420.2	419.4	420.2	422.2	427.0	429.5	433.1	440.9	447.0
55°	374.2	368.6	366.1	364.9	366.1	368.6	374.2	378.6	383.6	392.3	398.5
57.5°	322.4	320.9	318.9	320.3	318.9	320.9	322.4	329.6	334.5	341.4	349.0
60°	292.0	292.0	292.0	291.4	292.0	292.0	292.0	298.3	302.6	309.4	317.5
62.5°	268.6	267.1	266.6	267.5	266.6	267.1	268.6	271.3	275.7	280.0	287.2
65°	232.9	232.3	229.7	229.1	229.7	232.3	232.9	234.7	238.4	241.6	246.5
67.5°	199.2	196.9	196.1	195.3	196.1	196.9	199.2	200.7	203.2	207.2	209.7
70°	173.7	172.5	168.7	169.4	168.7	172.5	173.7	176.8	179.4	184.3	186.8
72.5°	146.3	145.0	144.3	143.5	144.3	145.0	146.3	149.4	151.9	157.4	161.4
75°	115.8	115.2	114.5	117.1	114.5	115.2	115.8	116.5	117.1	118.9	120.8
77.5°	92.8	92.8	93.2	92.1	93.2	92.8	92.8	92.8	92.8	93.8	94.1
80°	77.8	77.8	77.2	77.2	77.2	77.8	77.8	77.8	77.8	77.8	77.2
82.5°	62.4	62.9	63.3	62.3	63.3	62.9	62.4	63.4	63.8	62.9	63.3
85°	41.1	40.5	41.7	41.1	41.7	40.5	41.1	41.1	39.8	41.1	40.5
87.5°	23.0	22.0	22.1	22.7	22.1	22.0	23.0	21.9	21.8	21.6	21.0
90°	22.7	23.1	23.4	23.7	23.4	23.1	22.7	22.3	21.8	21.1	20.4
92.5°	32.6	32.4	32.2	31.9	32.2	32.4	32.6	32.8	32.6	32.1	31.5
95°	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.3	60.6	59.9
97.5°	95.1	95.1	95.0	94.9	95.0	95.1	95.1	95.1	94.8	94.0	93.2
100°	119.1	119.5	119.9	120.2	119.9	119.5	119.1	118.8	118.4	117.8	117.3
102.5°	146.3	146.2	146.2	146.2	146.2	146.2	146.3	146.4	146.2	145.7	145.1
105°	187.1	187.5	187.8	188.2	187.8	187.5	187.1	186.8	186.6	186.6	186.6
107.5°	232.7	232.4	232.2	232.0	232.2	232.4	232.7	232.8	232.7	232.1	231.6
110°	262.8	262.4	262.1	261.7	262.1	262.4	262.8	263.2	263.0	262.3	261.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	293.6	293.5	293.4	293.3	293.4	293.5	293.6	293.7	293.3	292.4	291.6
115°	337.4	337.2	337.1	336.8	337.1	337.2	337.4	337.5	337.5	337.4	337.2
117.5°	382.5	382.0	381.5	381.0	381.5	382.0	382.5	382.9	383.3	383.3	383.3
120°	413.0	412.7	412.3	412.0	412.3	412.7	413.0	413.4	413.7	413.8	414.0
122.5°	443.2	442.7	442.2	441.7	442.2	442.7	443.2	443.7	444.2	444.7	445.0
125°	488.5	487.7	487.0	486.3	487.0	487.7	488.5	489.1	489.8	490.5	491.2
127.5°	533.2	532.3	531.6	530.8	531.6	532.3	533.2	534.0	534.9	535.9	536.9
130°	563.6	562.3	561.1	559.8	561.1	562.3	563.6	564.7	565.8	566.4	567.1
132.5°	593.1	592.2	591.2	590.3	591.2	592.2	593.1	594.1	594.9	595.8	596.6
135°	638.4	638.0	637.7	637.4	637.7	638.0	638.4	638.7	639.3	640.0	640.7
137.5°	681.0	680.2	679.6	679.0	679.6	680.2	681.0	681.6	682.3	683.1	683.8
140°	709.9	708.6	707.4	706.2	707.4	708.6	709.9	711.1	711.8	711.9	712.1
142.5°	736.8	735.9	734.9	734.0	734.9	735.9	736.8	737.8	738.3	738.6	738.7
145°	776.3	775.5	774.8	774.1	774.8	775.5	776.3	777.0	777.4	777.6	777.8
147.5°	813.1	812.0	811.0	809.9	811.0	812.0	813.1	814.1	814.7	814.7	814.7
150°	835.8	834.8	833.7	832.7	833.7	834.8	835.8	836.9	837.4	837.4	837.4
152.5°	857.5	856.7	855.7	854.8	855.7	856.7	857.5	858.5	858.8	858.5	858.3
155°	888.6	887.3	886.1	884.9	886.1	887.3	888.6	889.8	890.0	889.4	888.7
157.5°	915.2	914.2	913.2	912.2	913.2	914.2	915.2	916.2	916.3	915.5	914.8
160°	932.1	931.4	930.7	929.9	930.7	931.4	932.1	932.7	932.6	931.8	930.9
162.5°	946.6	945.5	944.4	943.3	944.4	945.5	946.6	947.7	947.8	947.0	946.1
165°	966.1	964.8	963.6	962.3	963.6	964.8	966.1	967.3	967.3	966.3	965.3
167.5°	981.9	980.8	979.8	978.7	979.8	980.8	981.9	983.0	983.0	981.9	980.8
170°	990.5	989.4	988.1	986.9	988.1	989.4	990.5	991.8	991.8	990.5	989.4
172.5°	996.9	995.7	994.4	993.2	994.4	995.7	996.9	998.1	998.1	997.1	996.0
175°	1004.0	1002.7	1001.6	1000.3	1001.6	1002.7	1004.0	1005.2	1005.4	1004.2	1003.2
177.5°	1007.1	1006.1	1005.1	1004.1	1005.1	1006.1	1007.1	1008.1	1008.1	1007.3	1006.5
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1388.2	1395.2	1402.2	1408.7	1418.6	1423.1	1429.6	1432.0	1439.6	1450.5	1459.4
5°	1303.8	1313.8	1326.8	1337.4	1354.2	1367.3	1381.6	1395.3	1411.5	1434.6	1455.1
7.5°	1232.2	1242.1	1257.7	1277.4	1295.9	1314.5	1334.0	1352.7	1375.9	1408.9	1441.6
10°	1184.9	1196.7	1215.4	1236.5	1259.6	1277.6	1300.7	1324.4	1353.0	1391.0	1430.2
12.5°	1144.0	1152.9	1174.6	1194.7	1220.8	1243.8	1266.3	1294.0	1326.6	1367.1	1414.2
15°	1079.0	1091.5	1112.6	1135.0	1162.4	1186.8	1216.0	1249.6	1281.4	1331.2	1388.5
17.5°	1013.8	1032.7	1054.7	1080.0	1100.3	1133.8	1165.5	1200.1	1239.1	1292.0	1354.9
20°	971.9	986.9	1007.4	1044.2	1071.0	1096.5	1125.7	1168.7	1204.8	1264.6	1329.9
22.5°	936.6	947.5	970.6	1000.8	1032.1	1061.6	1091.3	1132.3	1176.9	1233.7	1304.6
25°	884.2	901.6	919.0	940.8	974.4	1009.9	1042.3	1077.1	1124.5	1184.9	1261.5
27.5°	833.0	848.7	865.9	892.7	918.2	951.4	985.2	1025.2	1076.0	1140.0	1217.6
30°	800.1	811.9	828.1	862.4	885.3	914.0	953.9	989.4	1036.6	1104.5	1186.8
32.5°	766.2	781.5	799.2	825.5	854.0	881.1	917.5	956.0	1004.3	1071.2	1155.3
35°	717.9	735.9	754.0	773.3	801.9	830.0	860.5	902.9	952.0	1016.8	1099.5
37.5°	673.4	688.0	702.7	726.6	753.8	780.4	808.9	850.6	897.0	966.9	1042.7
40°	645.1	658.1	669.3	694.3	720.4	749.0	777.1	813.8	863.6	929.0	1002.4
42.5°	614.2	626.2	641.4	661.9	690.0	714.2	742.2	776.9	823.7	890.1	954.6
45°	567.8	581.5	594.6	613.9	641.9	665.6	690.5	723.5	771.4	826.2	883.5
47.5°	519.7	533.4	548.3	567.0	591.4	615.4	640.3	669.6	713.3	767.1	805.6
50°	488.8	499.9	514.9	533.6	556.0	581.5	604.0	635.7	677.4	719.8	753.4
52.5°	456.9	467.1	484.0	503.7	524.7	546.7	570.6	597.9	635.6	675.4	702.1
55°	407.2	419.6	434.0	453.3	473.8	492.5	515.6	543.6	573.5	603.3	621.4
57.5°	360.8	371.1	383.2	403.1	420.9	443.2	463.8	485.7	513.3	535.8	547.6
60°	326.9	336.2	351.8	369.2	386.0	405.4	429.0	450.8	472.0	490.0	499.3
62.5°	295.0	305.9	319.4	335.3	353.6	371.9	392.6	410.9	429.6	445.2	451.5
65°	253.4	262.1	272.1	287.0	302.0	320.7	336.8	355.5	369.2	378.0	383.6
67.5°	215.6	221.3	228.9	238.8	253.5	269.8	285.5	300.1	311.6	317.5	322.5
70°	191.2	194.9	200.5	210.5	221.7	236.0	252.2	262.8	272.7	277.7	282.7
72.5°	166.8	171.5	176.6	184.6	193.8	204.1	215.8	228.9	234.3	240.3	243.4
75°	126.4	133.2	140.1	145.0	151.3	159.4	170.0	178.1	181.2	186.2	186.8
77.5°	95.4	96.9	101.9	108.1	113.3	119.1	125.9	133.1	134.6	137.2	138.9
80°	78.4	78.4	78.4	82.1	88.4	92.8	99.0	102.7	105.2	105.8	106.5
82.5°	63.0	63.0	62.5	63.3	65.5	67.9	73.6	77.8	79.9	79.5	78.1
85°	41.1	39.8	39.8	39.2	39.8	38.6	37.9	40.5	44.2	44.2	42.9
87.5°	20.8	20.2	20.3	19.3	18.4	17.4	15.5	15.7	15.3	17.0	16.1
90°	19.6	19.0	16.7	14.4	12.1	9.8	7.8	6.1	4.3	2.5	0.8
92.5°	30.9	30.3	29.1	27.7	26.5	25.2	23.9	22.7	21.5	20.4	19.2
95°	59.3	58.5	57.1	55.7	54.3	52.9	51.6	50.4	49.1	47.8	46.7
97.5°	92.4	91.6	90.5	89.5	88.5	87.5	86.5	85.6	84.7	83.8	82.9
100°	116.8	116.2	115.3	114.5	113.6	112.7	111.8	110.7	109.6	108.6	107.6
102.5°	144.6	144.1	142.9	141.7	140.6	139.4	138.6	137.9	137.3	136.7	136.0
105°	186.6	186.6	185.1	183.5	181.9	180.3	179.4	179.0	178.6	178.2	177.9
107.5°	231.0	230.4	229.8	229.2	228.5	227.9	227.5	227.3	227.0	226.9	226.6
110°	260.9	260.2	259.8	259.4	259.1	258.7	258.4	258.0	257.7	257.4	257.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	290.7	289.9	289.9	289.8	289.7	289.6	289.5	289.2	289.1	288.8	288.6
115°	337.1	336.8	337.2	337.5	337.9	338.3	338.2	337.6	337.2	336.6	336.0
117.5°	383.3	383.3	383.8	384.3	384.8	385.2	385.2	384.9	384.5	384.2	383.8
120°	414.2	414.4	415.3	416.1	417.0	417.9	417.8	416.8	415.7	414.6	413.6
122.5°	445.5	446.0	446.5	446.9	447.3	447.8	447.7	446.9	446.1	445.4	444.6
125°	491.9	492.7	493.0	493.4	493.7	494.1	493.9	493.5	492.9	492.4	491.9
127.5°	537.8	538.8	539.2	539.6	540.0	540.3	540.0	538.8	537.7	536.6	535.5
130°	567.8	568.5	569.1	569.6	570.1	570.7	570.2	568.8	567.4	566.0	564.6
132.5°	597.5	598.3	598.7	599.0	599.4	599.8	599.4	597.9	596.5	595.1	593.7
135°	641.4	642.1	642.3	642.5	642.6	642.8	642.4	641.3	640.2	639.2	638.2
137.5°	684.5	685.2	684.8	684.4	683.9	683.4	682.8	681.9	681.0	680.2	679.3
140°	712.3	712.5	712.3	712.1	711.9	711.8	711.2	710.3	709.5	708.6	707.7
142.5°	738.9	739.0	738.7	738.4	738.1	737.8	737.2	736.3	735.5	734.5	733.6
145°	777.9	778.1	777.6	777.1	776.5	776.0	775.5	775.2	774.8	774.5	774.1
147.5°	814.7	814.7	814.1	813.7	813.2	812.7	812.1	811.5	810.9	810.2	809.6
150°	837.4	837.4	837.1	836.7	836.4	836.0	835.7	835.3	835.0	834.6	834.2
152.5°	857.9	857.7	857.5	857.2	857.1	856.8	856.4	856.0	855.5	855.0	854.5
155°	888.0	887.2	887.1	886.8	886.7	886.5	886.5	886.5	886.5	886.5	886.5
157.5°	914.1	913.3	913.2	913.1	912.9	912.8	912.8	913.0	913.2	913.5	913.6
160°	930.0	929.2	929.2	929.2	929.2	929.2	929.3	929.7	930.0	930.3	930.7
162.5°	945.2	944.4	944.2	944.0	943.9	943.8	944.0	944.4	944.9	945.4	945.9
165°	964.2	963.1	963.1	963.1	963.1	963.1	963.5	963.9	964.5	965.0	965.5
167.5°	979.8	978.7	978.5	978.3	978.3	978.1	978.3	979.1	979.8	980.5	981.2
170°	988.1	986.9	986.9	986.9	986.9	986.9	987.2	987.9	988.6	989.4	990.1
172.5°	994.9	993.8	993.8	993.8	993.8	993.8	994.2	994.9	995.6	996.3	997.0
175°	1002.2	1001.1	1001.1	1001.1	1001.1	1001.1	1001.5	1002.2	1002.8	1003.5	1004.2
177.5°	1005.6	1004.7	1004.7	1004.7	1004.7	1004.7	1005.0	1005.6	1006.2	1006.7	1007.3
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1462.4	1467.9	1474.9	1485.3	1493.3	1500.3	1501.8	1503.8	1508.8	1517.2	1523.7
5°	1471.9	1486.2	1509.3	1531.7	1555.9	1575.9	1594.6	1607.7	1620.1	1646.2	1667.4
7.5°	1468.9	1500.8	1536.9	1577.2	1617.9	1657.3	1693.9	1726.6	1759.3	1797.4	1840.9
10°	1466.9	1504.3	1552.8	1604.5	1661.2	1716.6	1770.1	1811.9	1860.4	1904.0	1959.4
12.5°	1457.5	1511.2	1569.3	1635.4	1705.0	1768.9	1839.4	1897.0	1952.6	2015.5	2080.0
15°	1445.1	1510.5	1584.0	1671.7	1777.6	1854.8	1927.1	2027.3	2095.8	2164.2	2256.5
17.5°	1422.6	1502.4	1594.2	1708.3	1796.5	1900.3	2009.0	2088.2	2180.5	2277.0	2360.4
20°	1404.6	1497.5	1600.1	1712.2	1825.0	1937.6	2042.9	2137.5	2232.8	2344.2	2412.7
22.5°	1386.7	1478.5	1585.2	1704.3	1825.4	1944.1	2063.2	2174.4	2281.6	2394.1	2481.4
25°	1348.6	1457.6	1573.4	1694.8	1814.3	1945.1	2087.1	2211.0	2343.6	2459.4	2542.2
27.5°	1310.0	1409.8	1525.2	1648.4	1781.2	1935.8	2102.8	2243.6	2376.5	2459.4	2485.4
30°	1275.2	1381.0	1486.8	1612.0	1755.8	1928.3	2105.7	2267.0	2376.0	2412.0	2385.3
32.5°	1239.8	1335.7	1440.5	1568.7	1721.4	1909.9	2109.7	2253.0	2318.6	2291.1	2182.1
35°	1177.4	1263.9	1365.4	1493.7	1669.3	1899.7	2093.3	2190.4	2174.2	2018.6	1813.1
37.5°	1110.6	1181.1	1275.2	1409.3	1615.3	1859.2	2022.5	2036.9	1896.8	1657.8	1420.5
40°	1057.9	1121.3	1217.9	1358.0	1573.4	1819.3	1951.3	1893.4	1676.1	1410.2	1212.3
42.5°	1006.5	1060.1	1153.1	1304.2	1533.5	1765.1	1845.2	1719.1	1468.4	1217.0	1037.0
45°	919.6	970.0	1063.4	1218.5	1452.0	1661.2	1650.6	1431.4	1180.5	978.2	828.7
47.5°	837.2	881.3	968.9	1127.2	1356.2	1505.5	1406.5	1173.3	960.4	798.1	691.5
50°	778.9	822.5	909.7	1066.0	1279.5	1388.5	1247.1	1022.4	827.5	693.0	608.3
52.5°	723.1	765.7	845.4	997.7	1186.8	1252.0	1100.2	891.8	729.4	613.3	540.6
55°	645.1	677.4	749.0	894.7	1036.1	1051.0	897.2	722.9	589.0	508.1	458.3
57.5°	565.5	593.3	664.1	780.1	879.2	871.6	725.7	575.0	484.8	424.6	388.5
60°	513.7	541.1	603.3	703.0	777.7	751.5	617.7	496.2	419.1	374.9	346.2
62.5°	465.3	486.8	545.0	617.7	671.5	641.9	528.0	427.5	366.2	329.0	306.3
65°	395.4	412.8	459.5	497.5	527.4	498.8	404.1	334.4	290.2	264.0	248.4
67.5°	328.8	339.9	369.5	383.2	404.3	372.8	303.9	257.1	232.0	209.9	199.2
70°	287.0	295.1	310.7	321.9	327.5	295.1	244.1	209.8	188.6	173.1	166.3
72.5°	245.2	252.3	255.4	264.6	261.7	231.4	196.2	169.0	153.8	143.2	134.4
75°	187.4	190.5	187.4	183.7	175.5	154.4	130.2	116.5	105.2	100.2	97.1
77.5°	136.6	135.6	131.3	125.6	111.7	98.4	85.3	80.7	75.8	73.2	72.1
80°	105.2	102.7	99.0	89.7	77.8	68.5	65.4	62.3	60.4	57.3	56.6
82.5°	78.3	76.8	70.6	62.7	54.4	50.1	47.5	46.3	44.4	42.9	42.7
85°	41.7	39.8	33.0	28.7	27.4	26.1	25.5	25.5	23.1	22.4	22.4
87.5°	13.9	11.3	11.2	10.1	10.5	9.9	10.9	10.3	10.3	10.9	10.1
90°	2.5	4.3	6.1	7.8	9.8	12.1	14.4	16.7	19.0	19.6	20.4
92.5°	20.4	21.5	22.7	23.9	25.2	26.5	27.7	29.1	30.3	30.9	31.5
95°	47.8	49.1	50.4	51.6	52.9	54.3	55.7	57.1	58.5	59.3	59.9
97.5°	83.8	84.7	85.6	86.5	87.5	88.5	89.5	90.5	91.6	92.4	93.2
100°	108.6	109.6	110.7	111.8	112.7	113.6	114.5	115.3	116.2	116.8	117.3
102.5°	136.7	137.3	137.9	138.6	139.4	140.6	141.7	142.9	144.1	144.6	145.1
105°	178.2	178.6	179.0	179.4	180.3	181.9	183.5	185.1	186.6	186.6	186.6
107.5°	226.9	227.0	227.3	227.5	227.9	228.5	229.2	229.8	230.4	231.0	231.6
110°	257.4	257.7	258.0	258.4	258.7	259.1	259.4	259.8	260.2	260.9	261.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	288.8	289.1	289.2	289.5	289.6	289.7	289.8	289.9	289.9	290.7	291.6
115°	336.6	337.2	337.6	338.2	338.3	337.9	337.5	337.2	336.8	337.1	337.2
117.5°	384.2	384.5	384.9	385.2	385.2	384.8	384.3	383.8	383.3	383.3	383.3
120°	414.6	415.7	416.8	417.8	417.9	417.0	416.1	415.3	414.4	414.2	414.0
122.5°	445.4	446.1	446.9	447.7	447.8	447.3	446.9	446.5	446.0	445.5	445.0
125°	492.4	492.9	493.5	493.9	494.1	493.7	493.4	493.0	492.7	491.9	491.2
127.5°	536.6	537.7	538.8	540.0	540.3	540.0	539.6	539.2	538.8	537.8	536.9
130°	566.0	567.4	568.8	570.2	570.7	570.1	569.6	569.1	568.5	567.8	567.1
132.5°	595.1	596.5	597.9	599.4	599.8	599.4	599.0	598.7	598.3	597.5	596.6
135°	639.2	640.2	641.3	642.4	642.8	642.6	642.5	642.3	642.1	641.4	640.7
137.5°	680.2	681.0	681.9	682.8	683.4	683.9	684.4	684.8	685.2	684.5	683.8
140°	708.6	709.5	710.3	711.2	711.8	711.9	712.1	712.3	712.5	712.3	712.1
142.5°	734.5	735.5	736.3	737.2	737.8	738.1	738.4	738.7	739.0	738.9	738.7
145°	774.5	774.8	775.2	775.5	776.0	776.5	777.1	777.6	778.1	777.9	777.8
147.5°	810.2	810.9	811.5	812.1	812.7	813.2	813.7	814.1	814.7	814.7	814.7
150°	834.6	835.0	835.3	835.7	836.0	836.4	836.7	837.1	837.4	837.4	837.4
152.5°	855.0	855.5	856.0	856.4	856.8	857.1	857.2	857.5	857.7	857.9	858.3
155°	886.5	886.5	886.5	886.5	886.5	886.7	886.8	887.1	887.2	888.0	888.7
157.5°	913.5	913.2	913.0	912.8	912.8	912.9	913.1	913.2	913.3	914.1	914.8
160°	930.3	930.0	929.7	929.3	929.2	929.2	929.2	929.2	929.2	930.0	930.9
162.5°	945.4	944.9	944.4	944.0	943.8	943.9	944.0	944.2	944.4	945.2	946.1
165°	965.0	964.5	963.9	963.5	963.1	963.1	963.1	963.1	963.1	964.2	965.3
167.5°	980.5	979.8	979.1	978.3	978.1	978.3	978.3	978.5	978.7	979.8	980.8
170°	989.4	988.6	987.9	987.2	986.9	986.9	986.9	986.9	986.9	988.1	989.4
172.5°	996.3	995.6	994.9	994.2	993.8	993.8	993.8	993.8	993.8	994.9	996.0
175°	1003.5	1002.8	1002.2	1001.5	1001.1	1001.1	1001.1	1001.1	1001.1	1002.2	1003.2
177.5°	1006.7	1006.2	1005.6	1005.0	1004.7	1004.7	1004.7	1004.7	1004.7	1005.6	1006.5
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1534.1	1534.1	1536.1	1543.6	1544.6	1551.1	1549.1
5°	1686.1	1697.9	1702.2	1720.9	1732.2	1737.2	1727.2
7.5°	1871.8	1905.3	1921.0	1940.6	1958.0	1963.2	1949.6
10°	2007.4	2042.2	2071.5	2089.5	2106.3	2117.6	2131.9
12.5°	2138.3	2181.2	2209.0	2234.5	2251.8	2266.0	2268.3
15°	2280.7	2345.4	2394.6	2430.7	2448.8	2458.1	2454.4
17.5°	2424.2	2484.3	2519.3	2556.1	2581.2	2582.4	2583.1
20°	2505.4	2564.0	2604.5	2631.9	2659.9	2658.6	2664.8
22.5°	2559.8	2605.8	2636.9	2656.7	2666.3	2661.7	2662.8
25°	2585.1	2598.8	2593.3	2561.5	2553.4	2524.1	2529.1
27.5°	2454.2	2389.4	2322.4	2236.3	2168.3	2113.9	2116.7
30°	2276.3	2161.8	2031.0	1921.4	1823.0	1795.6	1737.2
32.5°	2027.7	1855.9	1702.8	1600.7	1516.2	1493.3	1442.2
35°	1606.4	1439.6	1282.0	1187.3	1150.0	1097.7	1097.1
37.5°	1248.6	1101.7	1018.4	947.4	910.1	878.5	875.4
40°	1050.4	935.8	872.9	821.9	785.1	761.4	755.9
42.5°	911.9	819.3	760.3	728.7	700.4	688.2	679.1
45°	744.7	682.4	641.3	612.7	599.6	590.3	585.3
47.5°	622.9	581.1	553.2	534.1	523.5	513.7	516.3
50°	556.7	522.4	501.8	483.8	475.7	468.8	469.4
52.5°	503.4	472.6	456.0	442.9	432.8	428.0	425.6
55°	427.1	407.8	391.0	381.7	376.0	369.2	367.3
57.5°	364.3	349.4	335.7	325.1	323.8	317.2	318.1
60°	322.5	310.1	298.9	293.3	288.9	283.3	285.2
62.5°	288.1	277.7	267.5	262.8	258.5	254.4	255.2
65°	236.0	226.0	219.8	217.3	215.4	213.6	211.7
67.5°	188.1	182.0	178.1	172.7	168.9	168.3	166.4
70°	158.1	150.0	143.2	136.3	134.5	133.9	134.5
72.5°	126.7	121.7	119.8	116.5	116.1	114.5	115.6
75°	95.3	93.4	92.1	89.7	89.7	89.7	89.7
77.5°	70.3	69.1	68.4	67.9	67.3	66.4	66.2
80°	54.8	54.2	52.9	52.9	52.3	52.9	52.3
82.5°	41.4	41.2	40.0	40.0	39.4	39.0	39.4
85°	21.2	20.5	21.8	20.5	21.2	20.0	21.2
87.5°	10.2	10.3	10.0	10.0	9.6	10.6	9.7
90°	21.1	21.8	22.3	22.7	23.1	23.4	23.7
92.5°	32.1	32.6	32.8	32.6	32.4	32.2	31.9
95°	60.6	61.3	61.7	61.7	61.7	61.7	61.7
97.5°	94.0	94.8	95.1	95.1	95.1	95.0	94.9
100°	117.8	118.4	118.8	119.1	119.5	119.9	120.2
102.5°	145.7	146.2	146.4	146.3	146.2	146.2	146.2
105°	186.6	186.6	186.8	187.1	187.5	187.8	188.2
107.5°	232.1	232.7	232.8	232.7	232.4	232.2	232.0
110°	262.3	263.0	263.2	262.8	262.4	262.1	261.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	292.4	293.3	293.7	293.6	293.5	293.4	293.3
115°	337.4	337.5	337.5	337.4	337.2	337.1	336.8
117.5°	383.3	383.3	382.9	382.5	382.0	381.5	381.0
120°	413.8	413.7	413.4	413.0	412.7	412.3	412.0
122.5°	444.7	444.2	443.7	443.2	442.7	442.2	441.7
125°	490.5	489.8	489.1	488.5	487.7	487.0	486.3
127.5°	535.9	534.9	534.0	533.2	532.3	531.6	530.8
130°	566.4	565.8	564.7	563.6	562.3	561.1	559.8
132.5°	595.8	594.9	594.1	593.1	592.2	591.2	590.3
135°	640.0	639.3	638.7	638.4	638.0	637.7	637.4
137.5°	683.1	682.3	681.6	681.0	680.2	679.6	679.0
140°	711.9	711.8	711.1	709.9	708.6	707.4	706.2
142.5°	738.6	738.3	737.8	736.8	735.9	734.9	734.0
145°	777.6	777.4	777.0	776.3	775.5	774.8	774.1
147.5°	814.7	814.7	814.1	813.1	812.0	811.0	809.9
150°	837.4	837.4	836.9	835.8	834.8	833.7	832.7
152.5°	858.5	858.8	858.5	857.5	856.7	855.7	854.8
155°	889.4	890.0	889.8	888.6	887.3	886.1	884.9
157.5°	915.5	916.3	916.2	915.2	914.2	913.2	912.2
160°	931.8	932.6	932.7	932.1	931.4	930.7	929.9
162.5°	947.0	947.8	947.7	946.6	945.5	944.4	943.3
165°	966.3	967.3	967.3	966.1	964.8	963.6	962.3
167.5°	981.9	983.0	983.0	981.9	980.8	979.8	978.7
170°	990.5	991.8	991.8	990.5	989.4	988.1	986.9
172.5°	997.1	998.1	998.1	996.9	995.7	994.4	993.2
175°	1004.2	1005.4	1005.2	1004.0	1002.7	1001.6	1000.3
177.5°	1007.3	1008.1	1008.1	1007.1	1006.1	1005.1	1004.1
180°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6

(END OF REPORT)