

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: P332451-840

Luminaire Tested: **S123RDIW-S1000D460U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332451-840
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: S123RDIW-S1000D460U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5613.0 lumens
Efficiency: N/A
Efficacy: 121.5 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: Semi-Direct

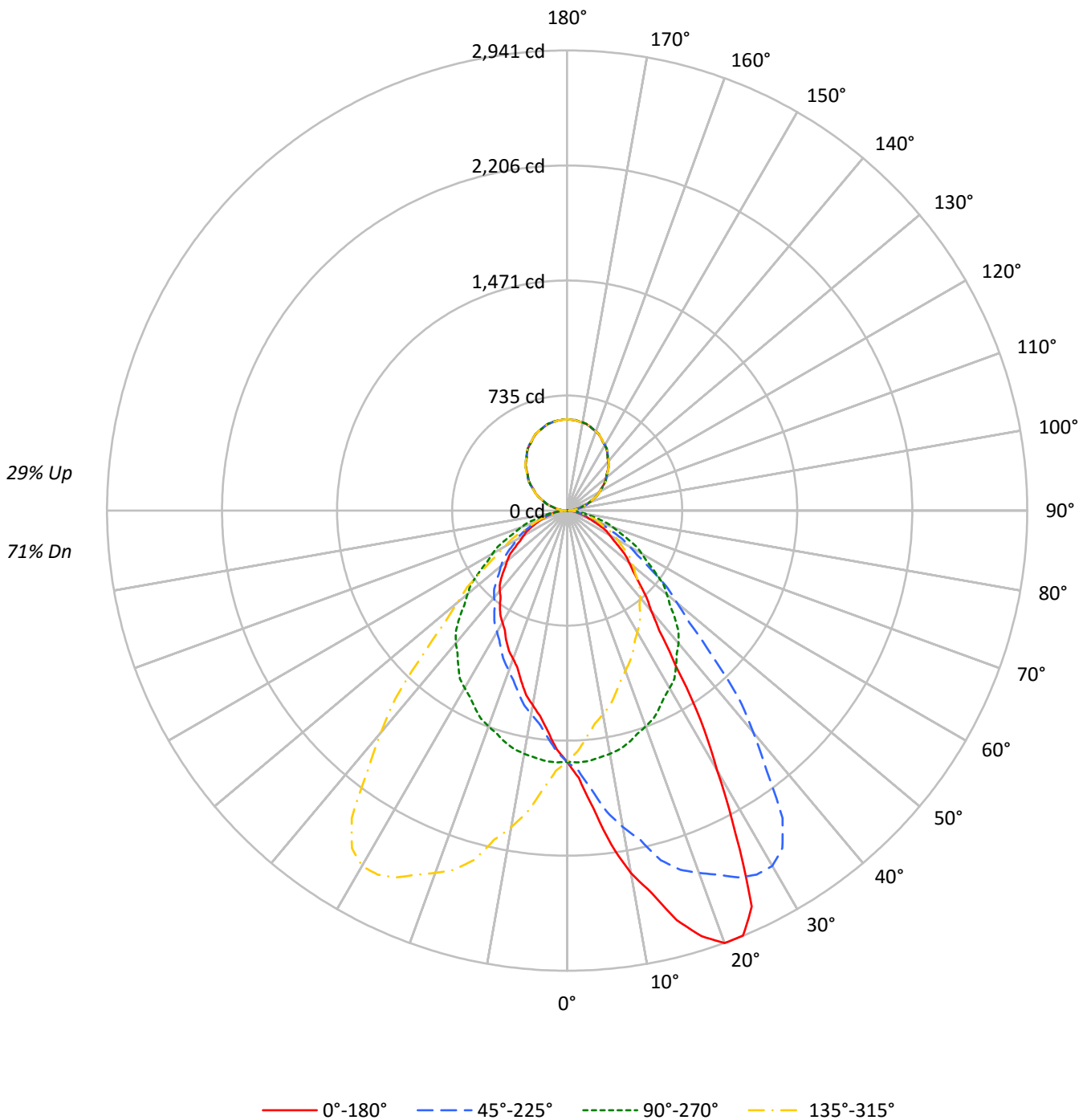
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	99	96	92	98	94	91	88	85	82	80	76	74	73	68	67	66	62
2	95	88	82	77	90	83	78	74	75	71	68	68	65	62	61	59	57	53
3	87	78	71	65	82	74	68	63	67	62	58	61	57	53	55	52	49	46
4	80	70	62	56	76	66	59	54	60	55	50	55	50	47	50	46	43	40
5	74	62	54	49	70	60	52	47	54	48	44	50	45	41	45	41	38	35
6	68	56	48	43	65	54	47	41	49	43	39	45	40	36	41	37	34	31
7	64	51	43	38	60	49	42	37	45	39	35	41	36	32	38	34	30	28
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	31	27	25
9	55	43	36	30	53	41	34	30	38	32	28	35	30	26	32	28	25	23
10	52	40	32	28	49	38	31	27	35	30	26	33	28	24	30	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17280	17280	17280	17280
5°	20599	17354	15282	17354
10°	25719	17254	13806	17254
15°	30190	17079	12590	17079
20°	33693	16814	11557	16814
25°	33155	16537	10922	16537
30°	23832	16281	10268	16281
35°	15912	15948	9843	15948
40°	11724	15548	9405	15548
45°	9834	14845	8977	14845
50°	8678	13924	8378	13924
55°	7610	12872	7557	12872
60°	6777	11866	6923	11866
65°	5952	10781	6441	10781
70°	4674	9819	5882	9819
75°	4117	8576	5373	8576
80°	3583	7283	5281	7283
85°	2878	5866	5595	5866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	2.8
10°-20°	493.2	8.8
20°-30°	774.9	13.8
30°-40°	808.4	14.4
40°-50°	691.8	12.3
50°-60°	527.3	9.4
60°-70°	338.0	6.0
70°-80°	162.6	2.9
80°-90°	44.7	0.8
90°-100°	37.9	0.7
100°-110°	113.6	2.0
110°-120°	193.2	3.4
120°-130°	254.1	4.5
130°-140°	285.6	5.1
140°-150°	280.8	5.0
150°-160°	236.4	4.2
160°-170°	157.3	2.8
170°-180°	55.1	1.0
0°-30°	1426.0	25.4
0°-40°	2234.4	39.8
0°-60°	3453.6	61.5
0°-90°	3998.9	71.2
90°-120°	344.8	6.1
90°-150°	1165.3	20.8
90°-180°	1614.0	28.8
0°-180°	5613.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1605	1605	1605	1605	1605	
5°	1906	1606	1414	1606	1906	197
15°	2709	1533	1130	1533	2709	768
25°	2792	1392	920	1392	2792	1200
35°	1211	1214	749	1214	1211	794
45°	646	975	590	975	646	508
55°	406	686	403	686	406	367
65°	234	423	253	423	234	230
75°	99	206	129	206	99	106
85°	23	48	45	48	23	27
90°	14	0	14	0	14	7
95°	36	27	36	27	36	37
105°	109	103	109	103	109	116
115°	195	194	195	194	195	193
125°	281	285	281	285	281	252
135°	369	369	369	369	369	284
145°	448	448	448	448	448	280
155°	512	513	512	513	512	236
165°	557	559	557	559	557	157
175°	579	581	579	581	579	55
180°	583	583	583	583	583	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1709.9	1712.0	1705.0	1703.8	1695.6	1693.3	1693.3	1681.8	1674.7	1665.4	1659.8
5°	1906.4	1917.4	1911.9	1899.6	1879.0	1874.1	1861.1	1840.5	1817.1	1788.2	1774.4
7.5°	2151.9	2166.9	2161.1	2142.0	2120.4	2102.9	2066.2	2031.9	1984.0	1941.9	1905.9
10°	2353.1	2337.3	2324.9	2306.4	2286.4	2254.1	2215.6	2162.7	2101.6	2053.5	1999.9
12.5°	2503.8	2501.1	2485.5	2466.4	2438.2	2407.5	2360.3	2295.8	2224.7	2155.3	2093.9
15°	2709.2	2713.2	2702.9	2683.0	2643.1	2588.9	2517.4	2490.6	2388.8	2313.3	2237.7
17.5°	2851.3	2850.4	2849.0	2821.5	2780.8	2742.1	2675.8	2605.4	2513.3	2406.7	2304.9
20°	2941.4	2934.6	2935.9	2905.0	2874.8	2830.0	2765.5	2663.1	2587.5	2464.5	2359.3
22.5°	2939.2	2937.8	2943.0	2932.4	2910.5	2876.3	2825.4	2739.0	2642.4	2518.3	2400.0
25°	2791.6	2786.1	2818.4	2827.3	2862.4	2868.5	2853.5	2806.0	2714.6	2586.8	2440.4
27.5°	2336.3	2333.3	2393.3	2468.3	2563.4	2637.4	2708.9	2743.4	2714.6	2623.1	2476.4
30°	1917.4	1982.1	2012.3	2120.8	2241.8	2386.1	2512.5	2632.8	2662.4	2622.5	2502.2
32.5°	1592.0	1648.3	1673.5	1766.8	1879.5	2048.5	2238.3	2408.5	2528.8	2559.3	2486.9
35°	1210.9	1211.6	1269.3	1310.6	1415.0	1588.9	1773.1	2001.2	2228.1	2399.8	2417.7
37.5°	966.2	969.7	1004.6	1045.7	1124.1	1216.0	1378.2	1567.9	1829.9	2093.7	2248.3
40°	834.4	840.5	866.7	907.2	963.5	1032.9	1159.4	1338.1	1556.6	1850.1	2089.9
42.5°	749.6	759.7	773.2	804.4	839.3	904.2	1006.5	1144.6	1343.3	1620.8	1897.5
45°	646.0	651.5	661.9	676.2	707.8	753.3	821.9	914.7	1079.6	1303.0	1579.9
47.5°	569.9	566.9	577.8	589.6	610.6	641.5	687.5	763.3	880.9	1060.2	1295.1
50°	518.2	517.5	525.0	534.0	553.9	576.6	614.4	671.5	764.9	913.3	1128.4
52.5°	469.8	472.4	477.8	488.9	503.3	521.6	555.5	596.6	676.9	805.1	984.4
55°	405.5	407.6	415.1	421.3	431.6	450.1	471.4	505.8	560.8	650.2	797.9
57.5°	351.0	350.1	357.4	358.9	370.5	385.7	402.1	428.9	468.7	535.1	634.6
60°	314.8	312.7	318.9	323.7	329.9	342.2	356.0	382.1	413.7	462.5	547.8
62.5°	281.8	280.8	285.4	290.1	295.3	306.5	318.1	338.1	363.1	404.2	471.9
65°	233.7	235.7	237.8	239.8	242.6	249.4	260.4	274.2	291.3	320.2	369.0
67.5°	183.6	185.7	186.4	190.7	196.5	200.9	207.5	219.7	231.8	256.1	283.9
70°	148.5	147.7	148.5	150.5	158.0	165.6	174.6	183.5	191.1	208.2	231.6
72.5°	127.5	126.3	128.2	128.6	132.2	134.3	140.0	148.3	158.0	169.8	186.5
75°	99.0	99.0	99.0	99.0	101.7	103.1	105.1	107.2	110.7	116.1	128.6
77.5°	73.1	73.2	74.2	74.9	75.4	76.2	77.6	79.6	80.8	83.7	89.1
80°	57.8	58.4	57.8	58.4	58.4	59.8	60.5	62.5	63.2	66.7	68.8
82.5°	43.4	43.0	43.4	44.1	44.1	45.5	45.6	47.2	47.3	49.1	51.1
85°	23.3	22.0	23.3	22.7	24.0	22.7	23.3	24.7	24.7	25.4	28.2
87.5°	8.3	9.3	8.2	8.7	8.6	9.1	9.1	9.0	10.0	9.4	9.6
90°	13.7	13.5	13.3	13.1	12.9	12.6	12.2	11.8	11.4	11.0	9.7
92.5°	18.5	18.6	18.7	18.9	19.0	18.9	18.6	18.2	17.9	17.6	16.9
95°	35.6	35.6	35.6	35.6	35.6	35.4	35.0	34.6	34.2	33.8	33.0
97.5°	54.9	54.9	55.0	55.0	55.0	54.8	54.4	53.9	53.4	53.0	52.4
100°	69.6	69.4	69.2	69.0	68.8	68.5	68.2	67.9	67.6	67.3	66.8
102.5°	84.5	84.6	84.6	84.7	84.7	84.6	84.3	84.0	83.7	83.4	82.7
105°	109.0	108.8	108.6	108.4	108.1	108.0	108.0	108.0	108.0	108.0	107.0
107.5°	134.3	134.4	134.5	134.6	134.7	134.6	134.3	134.0	133.7	133.4	133.0
110°	151.5	151.7	151.9	152.1	152.3	152.2	151.8	151.4	151.0	150.6	150.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	169.8	169.9	169.9	169.9	170.0	169.8	169.3	168.7	168.2	167.7	167.7
115°	195.0	195.1	195.2	195.3	195.4	195.4	195.3	195.2	195.1	195.0	195.2
117.5°	220.5	220.8	221.1	221.4	221.7	221.8	221.8	221.9	221.9	221.9	222.2
120°	238.4	238.6	238.8	239.0	239.2	239.4	239.5	239.6	239.7	239.8	240.3
122.5°	255.6	255.9	256.2	256.5	256.8	257.0	257.3	257.6	257.8	258.1	258.4
125°	281.4	281.9	282.3	282.7	283.1	283.5	283.9	284.3	284.7	285.1	285.3
127.5°	307.2	307.6	308.1	308.6	309.0	309.5	310.1	310.7	311.2	311.8	312.0
130°	324.0	324.8	325.5	326.2	326.9	327.4	327.8	328.2	328.6	329.0	329.3
132.5°	341.5	342.1	342.6	343.3	343.8	344.3	344.8	345.3	345.8	346.3	346.5
135°	368.9	369.1	369.3	369.5	369.7	370.0	370.4	370.8	371.2	371.6	371.7
137.5°	392.9	393.3	393.7	394.0	394.5	394.9	395.4	395.8	396.2	396.6	396.4
140°	408.7	409.4	410.1	410.8	411.5	411.9	412.0	412.1	412.2	412.3	412.2
142.5°	424.7	425.4	425.9	426.5	427.0	427.3	427.4	427.5	427.6	427.7	427.6
145°	448.1	448.5	448.9	449.3	449.7	449.9	450.0	450.1	450.2	450.3	450.0
147.5°	468.7	469.3	469.9	470.6	471.2	471.5	471.5	471.5	471.5	471.5	471.2
150°	481.9	482.5	483.1	483.7	484.3	484.6	484.6	484.6	484.6	484.6	484.4
152.5°	494.7	495.2	495.7	496.3	496.9	497.1	496.9	496.7	496.6	496.3	496.2
155°	512.1	512.8	513.5	514.2	514.9	515.1	514.7	514.3	513.9	513.5	513.4
157.5°	528.0	528.5	529.1	529.7	530.2	530.3	529.9	529.5	529.0	528.6	528.5
160°	538.2	538.6	539.0	539.4	539.8	539.8	539.3	538.8	538.3	537.8	537.8
162.5°	545.8	546.5	547.1	547.9	548.5	548.6	548.1	547.5	547.0	546.5	546.4
165°	556.9	557.6	558.4	559.1	559.8	559.9	559.3	558.7	558.1	557.4	557.4
167.5°	566.3	567.0	567.6	568.3	568.9	568.9	568.3	567.6	567.0	566.3	566.3
170°	571.2	571.9	572.6	573.3	574.0	574.0	573.3	572.6	571.9	571.2	571.2
172.5°	574.8	575.5	576.2	576.9	577.6	577.6	577.0	576.4	575.8	575.1	575.1
175°	579.0	579.7	580.4	581.1	581.8	581.8	581.2	580.6	580.0	579.4	579.4
177.5°	581.1	581.7	582.3	582.8	583.4	583.4	583.0	582.5	582.0	581.5	581.5
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1657.6	1656.0	1648.3	1639.5	1627.9	1620.2	1614.2	1610.9	1601.0	1588.9	1580.6
5°	1760.0	1739.4	1717.5	1690.6	1665.9	1640.4	1624.7	1606.1	1583.4	1558.0	1540.1
7.5°	1869.8	1829.3	1785.7	1740.8	1696.4	1656.6	1621.3	1591.2	1555.1	1518.6	1493.1
10°	1953.9	1894.7	1833.6	1771.0	1713.9	1660.4	1619.1	1578.6	1535.3	1493.4	1461.8
12.5°	2030.2	1952.5	1882.0	1805.1	1732.1	1668.1	1608.7	1561.0	1508.9	1464.2	1428.3
15°	2127.0	2047.3	1962.1	1845.2	1748.4	1667.3	1595.1	1532.6	1469.4	1414.3	1379.3
17.5°	2217.5	2097.5	1983.0	1885.5	1759.6	1658.3	1570.2	1495.4	1426.0	1367.8	1324.6
20°	2254.8	2138.7	2014.3	1890.0	1766.3	1652.8	1550.4	1467.9	1395.8	1329.8	1290.0
22.5°	2277.3	2145.9	2014.9	1881.2	1749.7	1631.9	1530.7	1440.0	1361.7	1299.0	1249.8
25°	2303.6	2147.0	2002.7	1870.7	1736.7	1608.8	1488.5	1392.4	1307.9	1241.1	1188.9
27.5°	2321.0	2136.7	1966.1	1819.4	1683.4	1556.2	1445.9	1343.9	1258.2	1187.7	1131.7
30°	2324.3	2128.4	1938.0	1779.3	1641.1	1524.3	1407.4	1309.9	1219.2	1144.3	1092.1
32.5°	2328.6	2108.1	1900.1	1731.4	1590.0	1474.3	1368.5	1275.3	1182.3	1108.5	1055.2
35°	2310.6	2096.8	1842.5	1648.7	1507.1	1395.1	1299.6	1213.7	1122.3	1050.8	996.5
37.5°	2232.4	2052.1	1782.8	1555.5	1407.4	1303.7	1225.9	1151.0	1067.1	990.1	938.9
40°	2153.8	2008.1	1736.7	1498.8	1344.2	1237.7	1167.6	1106.5	1025.4	953.2	898.3
42.5°	2036.7	1948.2	1692.7	1439.5	1272.7	1170.1	1111.0	1053.7	982.5	909.2	857.6
45°	1821.9	1833.6	1602.7	1344.9	1173.8	1070.8	1015.0	975.2	912.0	851.5	798.6
47.5°	1552.5	1661.7	1496.9	1244.2	1069.4	972.7	924.0	889.3	846.7	787.3	739.0
50°	1376.5	1532.6	1412.3	1176.6	1004.1	907.9	859.7	831.5	794.5	747.7	701.7
52.5°	1214.4	1381.9	1310.0	1101.3	933.1	845.2	798.2	775.0	745.5	701.6	659.8
55°	990.3	1160.0	1143.6	987.5	826.8	747.7	712.0	685.9	665.9	633.0	600.0
57.5°	801.0	962.0	970.5	861.1	733.1	654.9	624.2	604.5	591.5	566.5	536.0
60°	681.8	829.5	858.4	775.9	665.9	597.2	566.9	551.2	540.9	520.9	497.6
62.5°	582.8	708.5	741.2	681.9	601.6	537.2	513.6	498.4	491.4	474.2	453.6
65°	446.1	550.5	582.1	549.1	507.2	455.7	436.4	423.3	417.2	407.6	392.4
67.5°	335.4	411.5	446.2	422.9	407.8	375.3	363.0	356.0	350.5	343.9	331.2
70°	269.4	325.8	361.5	355.3	343.0	325.8	316.8	312.0	306.5	301.0	290.0
72.5°	216.6	255.4	288.9	292.1	282.0	278.5	270.6	268.6	265.3	258.7	252.7
75°	143.6	170.5	193.8	202.8	206.8	210.3	206.8	206.2	205.5	200.0	196.5
77.5°	94.1	108.6	123.3	138.6	145.0	149.7	150.8	153.3	151.5	148.6	146.9
80°	72.2	75.6	85.9	99.0	109.3	113.4	116.1	117.5	116.8	116.1	113.4
82.5°	52.4	55.2	60.1	69.3	78.0	84.8	86.4	86.1	87.7	88.1	85.9
85°	28.2	28.9	30.2	31.6	36.5	44.0	46.0	47.5	48.8	48.8	44.6
87.5°	10.5	9.7	10.5	10.3	11.7	12.0	15.1	17.7	18.5	16.5	16.7
90°	8.4	7.0	5.7	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	16.1	15.3	14.5	13.8	13.1	12.4	11.8	11.1	11.8	12.4	13.1
95°	32.2	31.4	30.6	29.9	29.2	28.4	27.7	27.0	27.7	28.4	29.2
97.5°	51.8	51.2	50.6	50.1	49.6	49.0	48.5	48.0	48.5	49.0	49.6
100°	66.2	65.7	65.2	64.6	64.0	63.4	62.8	62.2	62.8	63.4	64.0
102.5°	82.0	81.4	80.7	80.2	79.8	79.5	79.1	78.7	79.1	79.5	79.8
105°	106.1	105.2	104.3	103.8	103.6	103.4	103.2	103.0	103.2	103.4	103.6
107.5°	132.6	132.3	131.9	131.7	131.5	131.4	131.3	131.2	131.3	131.4	131.5
110°	150.2	150.0	149.8	149.6	149.4	149.2	149.0	148.8	149.0	149.2	149.4



TEST NUMBER: P332451-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	167.7	167.6	167.6	167.5	167.4	167.3	167.1	167.0	167.1	167.3	167.4
115°	195.4	195.6	195.8	195.7	195.4	195.1	194.8	194.5	194.8	195.1	195.4
117.5°	222.4	222.7	222.9	223.0	222.8	222.6	222.4	222.2	222.4	222.6	222.8
120°	240.9	241.4	241.9	241.8	241.2	240.5	239.9	239.3	239.9	240.5	241.2
122.5°	258.6	258.9	259.1	259.0	258.6	258.2	257.7	257.3	257.7	258.2	258.6
125°	285.5	285.7	285.9	285.9	285.6	285.3	285.0	284.7	285.0	285.3	285.6
127.5°	312.3	312.6	312.8	312.6	311.8	311.2	310.5	309.9	310.5	311.2	311.8
130°	329.6	329.9	330.2	330.0	329.2	328.4	327.6	326.8	327.6	328.4	329.2
132.5°	346.7	346.9	347.2	346.9	346.1	345.3	344.4	343.6	344.4	345.3	346.1
135°	371.8	371.9	372.0	371.7	371.1	370.5	369.9	369.3	369.9	370.5	371.1
137.5°	396.1	395.8	395.6	395.2	394.7	394.2	393.6	393.1	393.6	394.2	394.7
140°	412.1	412.0	411.9	411.6	411.1	410.6	410.1	409.6	410.1	410.6	411.1
142.5°	427.4	427.2	427.0	426.7	426.2	425.7	425.2	424.6	425.2	425.7	426.2
145°	449.7	449.4	449.1	448.9	448.7	448.5	448.3	448.1	448.3	448.5	448.7
147.5°	470.9	470.6	470.3	470.0	469.6	469.3	468.9	468.6	468.9	469.3	469.6
150°	484.2	484.0	483.8	483.6	483.4	483.2	483.0	482.8	483.0	483.2	483.4
152.5°	496.1	495.9	495.8	495.6	495.3	495.1	494.8	494.5	494.8	495.1	495.3
155°	513.3	513.2	513.1	513.0	513.0	513.0	513.0	513.0	513.0	513.0	513.0
157.5°	528.5	528.4	528.3	528.3	528.4	528.6	528.7	528.8	528.7	528.6	528.4
160°	537.8	537.8	537.8	537.9	538.1	538.3	538.5	538.7	538.5	538.3	538.1
162.5°	546.3	546.2	546.2	546.3	546.5	546.8	547.1	547.4	547.1	546.8	546.5
165°	557.4	557.4	557.4	557.5	557.8	558.2	558.5	558.8	558.5	558.2	557.8
167.5°	566.2	566.1	566.0	566.2	566.6	567.0	567.4	567.8	567.4	567.0	566.6
170°	571.2	571.2	571.2	571.4	571.8	572.2	572.6	573.0	572.6	572.2	571.8
172.5°	575.1	575.1	575.1	575.3	575.8	576.2	576.6	577.0	576.6	576.2	575.8
175°	579.4	579.4	579.4	579.6	580.0	580.4	580.8	581.2	580.8	580.4	580.0
177.5°	581.5	581.5	581.5	581.7	582.0	582.3	582.6	583.0	582.6	582.3	582.0
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



TEST NUMBER: P332451-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1577.9	1570.7	1565.8	1554.8	1547.7	1539.9	1532.3	1537.2	1536.7	1536.1	1536.1
5°	1525.0	1509.1	1494.8	1476.2	1464.5	1450.1	1439.1	1437.7	1440.5	1430.9	1425.3
7.5°	1472.5	1450.9	1430.5	1410.0	1388.3	1370.9	1360.1	1354.9	1348.0	1342.0	1335.8
10°	1435.6	1410.3	1390.3	1364.8	1341.5	1320.9	1307.9	1298.9	1294.0	1289.3	1280.3
12.5°	1397.8	1372.8	1347.5	1318.7	1296.5	1272.5	1262.7	1252.7	1243.5	1238.1	1225.9
15°	1342.2	1309.9	1283.1	1252.8	1228.1	1204.8	1191.0	1171.0	1168.3	1161.4	1149.1
17.5°	1286.6	1251.4	1214.5	1192.1	1164.2	1139.8	1118.9	1112.3	1092.6	1085.2	1074.4
20°	1242.5	1210.2	1182.0	1152.6	1112.0	1089.2	1072.8	1063.9	1048.0	1038.4	1031.6
22.5°	1204.6	1171.7	1139.2	1104.7	1071.3	1045.8	1033.8	1019.9	1011.2	997.7	990.3
25°	1150.4	1114.7	1075.5	1038.4	1014.4	995.1	975.9	963.5	951.2	944.9	931.2
27.5°	1087.5	1050.2	1013.5	985.3	955.8	936.9	919.4	908.4	893.5	883.1	875.6
30°	1052.9	1008.9	977.2	951.8	914.0	896.2	883.1	869.4	858.4	847.4	839.8
32.5°	1012.7	972.6	942.6	911.2	882.1	862.6	845.8	833.6	824.3	813.9	806.3
35°	949.8	916.1	885.1	853.5	832.2	812.3	792.4	782.0	773.2	763.6	756.7
37.5°	892.8	861.4	832.0	802.0	775.6	759.4	743.4	735.5	723.4	716.9	709.9
40°	857.7	826.8	795.2	766.3	738.8	726.4	712.0	700.3	689.3	684.5	676.9
42.5°	819.2	788.3	761.6	730.5	708.0	691.3	677.9	665.1	656.9	649.8	645.6
45°	762.1	734.7	708.5	677.6	656.3	641.9	626.7	615.1	607.5	602.7	595.1
47.5°	706.8	679.2	652.8	625.8	605.2	588.7	573.6	565.4	555.4	549.6	544.4
50°	666.6	641.9	613.7	589.0	568.4	551.9	539.5	529.2	520.3	512.7	509.3
52.5°	629.8	603.4	579.1	556.0	534.2	515.5	504.3	493.4	486.8	478.1	474.0
55°	569.1	543.6	523.0	500.3	479.0	463.2	449.5	439.8	432.9	423.3	417.9
57.5°	512.0	489.2	464.5	444.9	422.9	409.6	398.2	385.2	376.8	369.2	363.9
60°	473.5	447.4	426.1	407.6	388.3	371.1	360.8	350.5	341.5	334.0	329.2
62.5°	433.3	410.6	390.3	370.1	352.5	337.6	325.6	317.0	309.1	304.3	299.5
65°	371.8	354.0	333.4	316.8	300.3	289.3	279.7	272.2	266.6	263.2	259.1
67.5°	315.2	297.8	279.8	263.7	252.7	244.3	237.9	231.5	228.7	224.3	221.6
70°	278.3	260.4	244.7	232.3	221.3	215.1	211.0	206.2	203.4	197.9	195.2
72.5°	238.2	225.3	213.9	203.7	194.9	189.2	184.0	178.1	173.7	167.6	164.9
75°	187.6	175.9	167.0	160.2	154.6	147.0	139.5	133.3	131.3	129.2	128.6
77.5°	139.0	131.6	125.1	119.3	112.4	106.9	105.3	103.9	103.5	102.4	102.4
80°	109.3	102.4	97.6	90.7	86.5	86.5	86.5	85.2	85.9	85.9	85.9
82.5°	81.2	74.9	72.3	69.8	69.0	69.6	69.6	69.8	69.4	70.5	70.0
85°	41.9	42.6	44.0	43.3	44.0	44.0	45.3	44.6	45.3	44.0	45.3
87.5°	16.3	18.2	19.0	19.8	20.6	20.3	21.0	21.0	21.7	21.8	21.8
90°	4.5	5.7	7.0	8.4	9.7	11.0	11.4	11.8	12.2	12.6	12.9
92.5°	13.8	14.5	15.3	16.1	16.9	17.6	17.9	18.2	18.6	18.9	19.0
95°	29.9	30.6	31.4	32.2	33.0	33.8	34.2	34.6	35.0	35.4	35.6
97.5°	50.1	50.6	51.2	51.8	52.4	53.0	53.4	53.9	54.4	54.8	55.0
100°	64.6	65.2	65.7	66.2	66.8	67.3	67.6	67.9	68.2	68.5	68.8
102.5°	80.2	80.7	81.4	82.0	82.7	83.4	83.7	84.0	84.3	84.6	84.7
105°	103.8	104.3	105.2	106.1	107.0	108.0	108.0	108.0	108.0	108.0	108.1
107.5°	131.7	131.9	132.3	132.6	133.0	133.4	133.7	134.0	134.3	134.6	134.7
110°	149.6	149.8	150.0	150.2	150.4	150.6	151.0	151.4	151.8	152.2	152.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	167.5	167.6	167.6	167.7	167.7	167.7	168.2	168.7	169.3	169.8	170.0
115°	195.7	195.8	195.6	195.4	195.2	195.0	195.1	195.2	195.3	195.4	195.4
117.5°	223.0	222.9	222.7	222.4	222.2	221.9	221.9	221.9	221.8	221.8	221.7
120°	241.8	241.9	241.4	240.9	240.3	239.8	239.7	239.6	239.5	239.4	239.2
122.5°	259.0	259.1	258.9	258.6	258.4	258.1	257.8	257.6	257.3	257.0	256.8
125°	285.9	285.9	285.7	285.5	285.3	285.1	284.7	284.3	283.9	283.5	283.1
127.5°	312.6	312.8	312.6	312.3	312.0	311.8	311.2	310.7	310.1	309.5	309.0
130°	330.0	330.2	329.9	329.6	329.3	329.0	328.6	328.2	327.8	327.4	326.9
132.5°	346.9	347.2	346.9	346.7	346.5	346.3	345.8	345.3	344.8	344.3	343.8
135°	371.7	372.0	371.9	371.8	371.7	371.6	371.2	370.8	370.4	370.0	369.7
137.5°	395.2	395.6	395.8	396.1	396.4	396.6	396.2	395.8	395.4	394.9	394.5
140°	411.6	411.9	412.0	412.1	412.2	412.3	412.2	412.1	412.0	411.9	411.5
142.5°	426.7	427.0	427.2	427.4	427.6	427.7	427.6	427.5	427.4	427.3	427.0
145°	448.9	449.1	449.4	449.7	450.0	450.3	450.2	450.1	450.0	449.9	449.7
147.5°	470.0	470.3	470.6	470.9	471.2	471.5	471.5	471.5	471.5	471.5	471.2
150°	483.6	483.8	484.0	484.2	484.4	484.6	484.6	484.6	484.6	484.6	484.3
152.5°	495.6	495.8	495.9	496.1	496.2	496.3	496.6	496.7	496.9	497.1	496.9
155°	513.0	513.1	513.2	513.3	513.4	513.5	513.9	514.3	514.7	515.1	514.9
157.5°	528.3	528.3	528.4	528.5	528.5	528.6	529.0	529.5	529.9	530.3	530.2
160°	537.9	537.8	537.8	537.8	537.8	537.8	538.3	538.8	539.3	539.8	539.8
162.5°	546.3	546.2	546.2	546.3	546.4	546.5	547.0	547.5	548.1	548.6	548.5
165°	557.5	557.4	557.4	557.4	557.4	557.4	558.1	558.7	559.3	559.9	559.8
167.5°	566.2	566.0	566.1	566.2	566.3	566.3	567.0	567.6	568.3	568.9	568.9
170°	571.4	571.2	571.2	571.2	571.2	571.2	571.9	572.6	573.3	574.0	574.0
172.5°	575.3	575.1	575.1	575.1	575.1	575.1	575.8	576.4	577.0	577.6	577.6
175°	579.6	579.4	579.4	579.4	579.4	579.4	580.0	580.6	581.2	581.8	581.8
177.5°	581.7	581.5	581.5	581.5	581.5	581.5	582.0	582.5	583.0	583.4	583.4
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



TEST NUMBER: P332451-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1529.5	1528.9	1529.5	1527.3	1529.5	1528.9	1529.5	1536.1	1536.1	1536.7	1537.2
5°	1423.3	1422.6	1420.6	1414.3	1420.6	1422.6	1423.3	1425.3	1430.9	1440.5	1437.7
7.5°	1330.5	1329.6	1323.5	1323.6	1323.5	1329.6	1330.5	1335.8	1342.0	1348.0	1354.9
10°	1275.6	1276.2	1268.0	1263.1	1268.0	1276.2	1275.6	1280.3	1289.3	1294.0	1298.9
12.5°	1222.2	1219.0	1212.4	1207.1	1212.4	1219.0	1222.2	1225.9	1238.1	1243.5	1252.7
15°	1151.9	1145.0	1128.4	1129.8	1128.4	1145.0	1151.9	1149.1	1161.4	1168.3	1171.0
17.5°	1068.9	1063.9	1063.6	1054.0	1063.6	1063.9	1068.9	1074.4	1085.2	1092.6	1112.3
20°	1020.6	1017.1	1018.4	1008.9	1018.4	1017.1	1020.6	1031.6	1038.4	1048.0	1063.9
22.5°	982.6	979.2	973.4	970.4	973.4	979.2	982.6	990.3	997.7	1011.2	1019.9
25°	927.1	921.6	916.1	919.6	916.1	921.6	927.1	931.2	944.9	951.2	963.5
27.5°	871.6	867.5	861.9	861.2	861.9	867.5	871.6	875.6	883.1	893.5	908.4
30°	836.4	832.2	829.5	826.1	829.5	832.2	836.4	839.8	847.4	858.4	869.4
32.5°	800.6	799.8	794.9	794.2	794.9	799.8	800.6	806.3	813.9	824.3	833.6
35°	753.9	749.8	748.4	749.1	748.4	749.8	753.9	756.7	763.6	773.2	782.0
37.5°	709.5	704.0	701.6	699.0	701.6	704.0	709.5	709.9	716.9	723.4	735.5
40°	677.6	672.2	670.8	669.3	670.8	672.2	677.6	676.9	684.5	689.3	700.3
42.5°	641.9	639.6	638.8	636.4	638.8	639.6	641.9	645.6	649.8	656.9	665.1
45°	593.1	592.4	588.2	589.7	588.2	592.4	593.1	595.1	602.7	607.5	615.1
47.5°	541.7	538.7	535.7	537.7	535.7	538.7	541.7	544.4	549.6	555.4	565.4
50°	506.5	505.1	499.0	500.3	499.0	505.1	506.5	509.3	512.7	520.3	529.2
52.5°	471.3	466.1	463.7	462.9	463.7	466.1	471.3	474.0	478.1	486.8	493.4
55°	413.0	406.9	404.1	402.7	404.1	406.9	413.0	417.9	423.3	432.9	439.8
57.5°	355.9	354.2	352.0	353.6	352.0	354.2	355.9	363.9	369.2	376.8	385.2
60°	322.3	322.3	322.3	321.6	322.3	322.3	322.3	329.2	334.0	341.5	350.5
62.5°	296.5	294.8	294.3	295.3	294.3	294.8	296.5	299.5	304.3	309.1	317.0
65°	257.0	256.3	253.6	252.9	253.6	256.3	257.0	259.1	263.2	266.6	272.2
67.5°	219.7	217.3	216.5	215.5	216.5	217.3	219.7	221.6	224.3	228.7	231.5
70°	191.8	190.4	186.2	186.9	186.2	190.4	191.8	195.2	197.9	203.4	206.2
72.5°	161.5	160.2	159.3	158.3	159.3	160.2	161.5	164.9	167.6	173.7	178.1
75°	127.8	127.1	126.4	129.2	126.4	127.1	127.8	128.6	129.2	131.3	133.3
77.5°	102.4	102.4	102.8	101.7	102.8	102.4	102.4	102.4	102.4	103.5	103.9
80°	85.9	85.9	85.2	85.2	85.2	85.9	85.9	85.9	85.9	85.9	85.2
82.5°	68.9	69.4	69.8	68.8	69.8	69.4	68.9	70.0	70.5	69.4	69.8
85°	45.3	44.6	46.0	45.3	46.0	44.6	45.3	45.3	44.0	45.3	44.6
87.5°	22.9	21.9	21.9	22.5	21.9	21.9	22.9	21.8	21.8	21.7	21.0
90°	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.6	12.2	11.8
92.5°	18.9	18.7	18.6	18.5	18.6	18.7	18.9	19.0	18.9	18.6	18.2
95°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.4	35.0	34.6
97.5°	55.0	55.0	54.9	54.9	54.9	55.0	55.0	55.0	54.8	54.4	53.9
100°	69.0	69.2	69.4	69.6	69.4	69.2	69.0	68.8	68.5	68.2	67.9
102.5°	84.7	84.6	84.6	84.5	84.6	84.6	84.7	84.7	84.6	84.3	84.0
105°	108.4	108.6	108.8	109.0	108.8	108.6	108.4	108.1	108.0	108.0	108.0
107.5°	134.6	134.5	134.4	134.3	134.4	134.5	134.6	134.7	134.6	134.3	134.0
110°	152.1	151.9	151.7	151.5	151.7	151.9	152.1	152.3	152.2	151.8	151.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	169.9	169.9	169.9	169.8	169.9	169.9	169.9	170.0	169.8	169.3	168.7
115°	195.3	195.2	195.1	195.0	195.1	195.2	195.3	195.4	195.4	195.3	195.2
117.5°	221.4	221.1	220.8	220.5	220.8	221.1	221.4	221.7	221.8	221.8	221.9
120°	239.0	238.8	238.6	238.4	238.6	238.8	239.0	239.2	239.4	239.5	239.6
122.5°	256.5	256.2	255.9	255.6	255.9	256.2	256.5	256.8	257.0	257.3	257.6
125°	282.7	282.3	281.9	281.4	281.9	282.3	282.7	283.1	283.5	283.9	284.3
127.5°	308.6	308.1	307.6	307.2	307.6	308.1	308.6	309.0	309.5	310.1	310.7
130°	326.2	325.5	324.8	324.0	324.8	325.5	326.2	326.9	327.4	327.8	328.2
132.5°	343.3	342.6	342.1	341.5	342.1	342.6	343.3	343.8	344.3	344.8	345.3
135°	369.5	369.3	369.1	368.9	369.1	369.3	369.5	369.7	370.0	370.4	370.8
137.5°	394.0	393.7	393.3	392.9	393.3	393.7	394.0	394.5	394.9	395.4	395.8
140°	410.8	410.1	409.4	408.7	409.4	410.1	410.8	411.5	411.9	412.0	412.1
142.5°	426.5	425.9	425.4	424.7	425.4	425.9	426.5	427.0	427.3	427.4	427.5
145°	449.3	448.9	448.5	448.1	448.5	448.9	449.3	449.7	449.9	450.0	450.1
147.5°	470.6	469.9	469.3	468.7	469.3	469.9	470.6	471.2	471.5	471.5	471.5
150°	483.7	483.1	482.5	481.9	482.5	483.1	483.7	484.3	484.6	484.6	484.6
152.5°	496.3	495.7	495.2	494.7	495.2	495.7	496.3	496.9	497.1	496.9	496.7
155°	514.2	513.5	512.8	512.1	512.8	513.5	514.2	514.9	515.1	514.7	514.3
157.5°	529.7	529.1	528.5	528.0	528.5	529.1	529.7	530.2	530.3	529.9	529.5
160°	539.4	539.0	538.6	538.2	538.6	539.0	539.4	539.8	539.8	539.3	538.8
162.5°	547.9	547.1	546.5	545.8	546.5	547.1	547.9	548.5	548.6	548.1	547.5
165°	559.1	558.4	557.6	556.9	557.6	558.4	559.1	559.8	559.9	559.3	558.7
167.5°	568.3	567.6	567.0	566.3	567.0	567.6	568.3	568.9	568.9	568.3	567.6
170°	573.3	572.6	571.9	571.2	571.9	572.6	573.3	574.0	574.0	573.3	572.6
172.5°	576.9	576.2	575.5	574.8	575.5	576.2	576.9	577.6	577.6	577.0	576.4
175°	581.1	580.4	579.7	579.0	579.7	580.4	581.1	581.8	581.8	581.2	580.6
177.5°	582.8	582.3	581.7	581.1	581.7	582.3	582.8	583.4	583.4	583.0	582.5
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1532.3	1539.9	1547.7	1554.8	1565.8	1570.7	1577.9	1580.6	1588.9	1601.0	1610.9
5°	1439.1	1450.1	1464.5	1476.2	1494.8	1509.1	1525.0	1540.1	1558.0	1583.4	1606.1
7.5°	1360.1	1370.9	1388.3	1410.0	1430.5	1450.9	1472.5	1493.1	1518.6	1555.1	1591.2
10°	1307.9	1320.9	1341.5	1364.8	1390.3	1410.3	1435.6	1461.8	1493.4	1535.3	1578.6
12.5°	1262.7	1272.5	1296.5	1318.7	1347.5	1372.8	1397.8	1428.3	1464.2	1508.9	1561.0
15°	1191.0	1204.8	1228.1	1252.8	1283.1	1309.9	1342.2	1379.3	1414.3	1469.4	1532.6
17.5°	1118.9	1139.8	1164.2	1192.1	1214.5	1251.4	1286.6	1324.6	1367.8	1426.0	1495.4
20°	1072.8	1089.2	1112.0	1152.6	1182.0	1210.2	1242.5	1290.0	1329.8	1395.8	1467.9
22.5°	1033.8	1045.8	1071.3	1104.7	1139.2	1171.7	1204.6	1249.8	1299.0	1361.7	1440.0
25°	975.9	995.1	1014.4	1038.4	1075.5	1114.7	1150.4	1188.9	1241.1	1307.9	1392.4
27.5°	919.4	936.9	955.8	985.3	1013.5	1050.2	1087.5	1131.7	1187.7	1258.2	1343.9
30°	883.1	896.2	914.0	951.8	977.2	1008.9	1052.9	1092.1	1144.3	1219.2	1309.9
32.5°	845.8	862.6	882.1	911.2	942.6	972.6	1012.7	1055.2	1108.5	1182.3	1275.3
35°	792.4	812.3	832.2	853.5	885.1	916.1	949.8	996.5	1050.8	1122.3	1213.7
37.5°	743.4	759.4	775.6	802.0	832.0	861.4	892.8	938.9	990.1	1067.1	1151.0
40°	712.0	726.4	738.8	766.3	795.2	826.8	857.7	898.3	953.2	1025.4	1106.5
42.5°	677.9	691.3	708.0	730.5	761.6	788.3	819.2	857.6	909.2	982.5	1053.7
45°	626.7	641.9	656.3	677.6	708.5	734.7	762.1	798.6	851.5	912.0	975.2
47.5°	573.6	588.7	605.2	625.8	652.8	679.2	706.8	739.0	787.3	846.7	889.3
50°	539.5	551.9	568.4	589.0	613.7	641.9	666.6	701.7	747.7	794.5	831.5
52.5°	504.3	515.5	534.2	556.0	579.1	603.4	629.8	659.8	701.6	745.5	775.0
55°	449.5	463.2	479.0	500.3	523.0	543.6	569.1	600.0	633.0	665.9	685.9
57.5°	398.2	409.6	422.9	444.9	464.5	489.2	512.0	536.0	566.5	591.5	604.5
60°	360.8	371.1	388.3	407.6	426.1	447.4	473.5	497.6	520.9	540.9	551.2
62.5°	325.6	337.6	352.5	370.1	390.3	410.6	433.3	453.6	474.2	491.4	498.4
65°	279.7	289.3	300.3	316.8	333.4	354.0	371.8	392.4	407.6	417.2	423.3
67.5°	237.9	244.3	252.7	263.7	279.8	297.8	315.2	331.2	343.9	350.5	356.0
70°	211.0	215.1	221.3	232.3	244.7	260.4	278.3	290.0	301.0	306.5	312.0
72.5°	184.0	189.2	194.9	203.7	213.9	225.3	238.2	252.7	258.7	265.3	268.6
75°	139.5	147.0	154.6	160.2	167.0	175.9	187.6	196.5	200.0	205.5	206.2
77.5°	105.3	106.9	112.4	119.3	125.1	131.6	139.0	146.9	148.6	151.5	153.3
80°	86.5	86.5	86.5	90.7	97.6	102.4	109.3	113.4	116.1	116.8	117.5
82.5°	69.6	69.6	69.0	69.8	72.3	74.9	81.2	85.9	88.1	87.7	86.1
85°	45.3	44.0	44.0	43.3	44.0	42.6	41.9	44.6	48.8	48.8	47.5
87.5°	21.0	20.3	20.6	19.8	19.0	18.2	16.3	16.7	16.5	18.5	17.7
90°	11.4	11.0	9.7	8.4	7.0	5.7	4.5	3.5	2.5	1.5	0.5
92.5°	17.9	17.6	16.9	16.1	15.3	14.5	13.8	13.1	12.4	11.8	11.1
95°	34.2	33.8	33.0	32.2	31.4	30.6	29.9	29.2	28.4	27.7	27.0
97.5°	53.4	53.0	52.4	51.8	51.2	50.6	50.1	49.6	49.0	48.5	48.0
100°	67.6	67.3	66.8	66.2	65.7	65.2	64.6	64.0	63.4	62.8	62.2
102.5°	83.7	83.4	82.7	82.0	81.4	80.7	80.2	79.8	79.5	79.1	78.7
105°	108.0	108.0	107.0	106.1	105.2	104.3	103.8	103.6	103.4	103.2	103.0
107.5°	133.7	133.4	133.0	132.6	132.3	131.9	131.7	131.5	131.4	131.3	131.2
110°	151.0	150.6	150.4	150.2	150.0	149.8	149.6	149.4	149.2	149.0	148.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	168.2	167.7	167.7	167.7	167.6	167.6	167.5	167.4	167.3	167.1	167.0
115°	195.1	195.0	195.2	195.4	195.6	195.8	195.7	195.4	195.1	194.8	194.5
117.5°	221.9	221.9	222.2	222.4	222.7	222.9	223.0	222.8	222.6	222.4	222.2
120°	239.7	239.8	240.3	240.9	241.4	241.9	241.8	241.2	240.5	239.9	239.3
122.5°	257.8	258.1	258.4	258.6	258.9	259.1	259.0	258.6	258.2	257.7	257.3
125°	284.7	285.1	285.3	285.5	285.7	285.9	285.9	285.6	285.3	285.0	284.7
127.5°	311.2	311.8	312.0	312.3	312.6	312.8	312.6	311.8	311.2	310.5	309.9
130°	328.6	329.0	329.3	329.6	329.9	330.2	330.0	329.2	328.4	327.6	326.8
132.5°	345.8	346.3	346.5	346.7	346.9	347.2	346.9	346.1	345.3	344.4	343.6
135°	371.2	371.6	371.7	371.8	371.9	372.0	371.7	371.1	370.5	369.9	369.3
137.5°	396.2	396.6	396.4	396.1	395.8	395.6	395.2	394.7	394.2	393.6	393.1
140°	412.2	412.3	412.2	412.1	412.0	411.9	411.6	411.1	410.6	410.1	409.6
142.5°	427.6	427.7	427.6	427.4	427.2	427.0	426.7	426.2	425.7	425.2	424.6
145°	450.2	450.3	450.0	449.7	449.4	449.1	448.9	448.7	448.5	448.3	448.1
147.5°	471.5	471.5	471.2	470.9	470.6	470.3	470.0	469.6	469.3	468.9	468.6
150°	484.6	484.6	484.4	484.2	484.0	483.8	483.6	483.4	483.2	483.0	482.8
152.5°	496.6	496.3	496.2	496.1	495.9	495.8	495.6	495.3	495.1	494.8	494.5
155°	513.9	513.5	513.4	513.3	513.2	513.1	513.0	513.0	513.0	513.0	513.0
157.5°	529.0	528.6	528.5	528.5	528.4	528.3	528.3	528.4	528.6	528.7	528.8
160°	538.3	537.8	537.8	537.8	537.8	537.8	537.9	538.1	538.3	538.5	538.7
162.5°	547.0	546.5	546.4	546.3	546.2	546.2	546.3	546.5	546.8	547.1	547.4
165°	558.1	557.4	557.4	557.4	557.4	557.4	557.5	557.8	558.2	558.5	558.8
167.5°	567.0	566.3	566.3	566.2	566.1	566.0	566.2	566.6	567.0	567.4	567.8
170°	571.9	571.2	571.2	571.2	571.2	571.2	571.4	571.8	572.2	572.6	573.0
172.5°	575.8	575.1	575.1	575.1	575.1	575.1	575.3	575.8	576.2	576.6	577.0
175°	580.0	579.4	579.4	579.4	579.4	579.4	579.6	580.0	580.4	580.8	581.2
177.5°	582.0	581.5	581.5	581.5	581.5	581.5	581.7	582.0	582.3	582.6	583.0
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



TEST NUMBER: P332451-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1614.2	1620.2	1627.9	1639.5	1648.3	1656.0	1657.6	1659.8	1665.4	1674.7	1681.8
5°	1624.7	1640.4	1665.9	1690.6	1717.5	1739.4	1760.0	1774.4	1788.2	1817.1	1840.5
7.5°	1621.3	1656.6	1696.4	1740.8	1785.7	1829.3	1869.8	1905.9	1941.9	1984.0	2031.9
10°	1619.1	1660.4	1713.9	1771.0	1833.6	1894.7	1953.9	1999.9	2053.5	2101.6	2162.7
12.5°	1608.7	1668.1	1732.1	1805.1	1882.0	1952.5	2030.2	2093.9	2155.3	2224.7	2295.8
15°	1595.1	1667.3	1748.4	1845.2	1962.1	2047.3	2127.0	2237.7	2313.3	2388.8	2490.6
17.5°	1570.2	1658.3	1759.6	1885.5	1983.0	2097.5	2217.5	2304.9	2406.7	2513.3	2605.4
20°	1550.4	1652.8	1766.3	1890.0	2014.3	2138.7	2254.8	2359.3	2464.5	2587.5	2663.1
22.5°	1530.7	1631.9	1749.7	1881.2	2014.9	2145.9	2277.3	2400.0	2518.3	2642.4	2739.0
25°	1488.5	1608.8	1736.7	1870.7	2002.7	2147.0	2303.6	2440.4	2586.8	2714.6	2806.0
27.5°	1445.9	1556.2	1683.4	1819.4	1966.1	2136.7	2321.0	2476.4	2623.1	2714.6	2743.4
30°	1407.4	1524.3	1641.1	1779.3	1938.0	2128.4	2324.3	2502.2	2622.5	2662.4	2632.8
32.5°	1368.5	1474.3	1590.0	1731.4	1900.1	2108.1	2328.6	2486.9	2559.3	2528.8	2408.5
35°	1299.6	1395.1	1507.1	1648.7	1842.5	2096.8	2310.6	2417.7	2399.8	2228.1	2001.2
37.5°	1225.9	1303.7	1407.4	1555.5	1782.8	2052.1	2232.4	2248.3	2093.7	1829.9	1567.9
40°	1167.6	1237.7	1344.2	1498.8	1736.7	2008.1	2153.8	2089.9	1850.1	1556.6	1338.1
42.5°	1111.0	1170.1	1272.7	1439.5	1692.7	1948.2	2036.7	1897.5	1620.8	1343.3	1144.6
45°	1015.0	1070.8	1173.8	1344.9	1602.7	1833.6	1821.9	1579.9	1303.0	1079.6	914.7
47.5°	924.0	972.7	1069.4	1244.2	1496.9	1661.7	1552.5	1295.1	1060.2	880.9	763.3
50°	859.7	907.9	1004.1	1176.6	1412.3	1532.6	1376.5	1128.4	913.3	764.9	671.5
52.5°	798.2	845.2	933.1	1101.3	1310.0	1381.9	1214.4	984.4	805.1	676.9	596.6
55°	712.0	747.7	826.8	987.5	1143.6	1160.0	990.3	797.9	650.2	560.8	505.8
57.5°	624.2	654.9	733.1	861.1	970.5	962.0	801.0	634.6	535.1	468.7	428.9
60°	566.9	597.2	665.9	775.9	858.4	829.5	681.8	547.8	462.5	413.7	382.1
62.5°	513.6	537.2	601.6	681.9	741.2	708.5	582.8	471.9	404.2	363.1	338.1
65°	436.4	455.7	507.2	549.1	582.1	550.5	446.1	369.0	320.2	291.3	274.2
67.5°	363.0	375.3	407.8	422.9	446.2	411.5	335.4	283.9	256.1	231.8	219.7
70°	316.8	325.8	343.0	355.3	361.5	325.8	269.4	231.6	208.2	191.1	183.5
72.5°	270.6	278.5	282.0	292.1	288.9	255.4	216.6	186.5	169.8	158.0	148.3
75°	206.8	210.3	206.8	202.8	193.8	170.5	143.6	128.6	116.1	110.7	107.2
77.5°	150.8	149.7	145.0	138.6	123.3	108.6	94.1	89.1	83.7	80.8	79.6
80°	116.1	113.4	109.3	99.0	85.9	75.6	72.2	68.8	66.7	63.2	62.5
82.5°	86.4	84.8	78.0	69.3	60.1	55.2	52.4	51.1	49.1	47.3	47.2
85°	46.0	44.0	36.5	31.6	30.2	28.9	28.2	28.2	25.4	24.7	24.7
87.5°	15.1	12.0	11.7	10.3	10.5	9.7	10.5	9.6	9.4	10.0	9.0
90°	1.5	2.5	3.5	4.5	5.7	7.0	8.4	9.7	11.0	11.4	11.8
92.5°	11.8	12.4	13.1	13.8	14.5	15.3	16.1	16.9	17.6	17.9	18.2
95°	27.7	28.4	29.2	29.9	30.6	31.4	32.2	33.0	33.8	34.2	34.6
97.5°	48.5	49.0	49.6	50.1	50.6	51.2	51.8	52.4	53.0	53.4	53.9
100°	62.8	63.4	64.0	64.6	65.2	65.7	66.2	66.8	67.3	67.6	67.9
102.5°	79.1	79.5	79.8	80.2	80.7	81.4	82.0	82.7	83.4	83.7	84.0
105°	103.2	103.4	103.6	103.8	104.3	105.2	106.1	107.0	108.0	108.0	108.0
107.5°	131.3	131.4	131.5	131.7	131.9	132.3	132.6	133.0	133.4	133.7	134.0
110°	149.0	149.2	149.4	149.6	149.8	150.0	150.2	150.4	150.6	151.0	151.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	167.1	167.3	167.4	167.5	167.6	167.6	167.7	167.7	167.7	168.2	168.7
115°	194.8	195.1	195.4	195.7	195.8	195.6	195.4	195.2	195.0	195.1	195.2
117.5°	222.4	222.6	222.8	223.0	222.9	222.7	222.4	222.2	221.9	221.9	221.9
120°	239.9	240.5	241.2	241.8	241.9	241.4	240.9	240.3	239.8	239.7	239.6
122.5°	257.7	258.2	258.6	259.0	259.1	258.9	258.6	258.4	258.1	257.8	257.6
125°	285.0	285.3	285.6	285.9	285.9	285.7	285.5	285.3	285.1	284.7	284.3
127.5°	310.5	311.2	311.8	312.6	312.8	312.6	312.3	312.0	311.8	311.2	310.7
130°	327.6	328.4	329.2	330.0	330.2	329.9	329.6	329.3	329.0	328.6	328.2
132.5°	344.4	345.3	346.1	346.9	347.2	346.9	346.7	346.5	346.3	345.8	345.3
135°	369.9	370.5	371.1	371.7	372.0	371.9	371.8	371.7	371.6	371.2	370.8
137.5°	393.6	394.2	394.7	395.2	395.6	395.8	396.1	396.4	396.6	396.2	395.8
140°	410.1	410.6	411.1	411.6	411.9	412.0	412.1	412.2	412.3	412.2	412.1
142.5°	425.2	425.7	426.2	426.7	427.0	427.2	427.4	427.6	427.7	427.6	427.5
145°	448.3	448.5	448.7	448.9	449.1	449.4	449.7	450.0	450.3	450.2	450.1
147.5°	468.9	469.3	469.6	470.0	470.3	470.6	470.9	471.2	471.5	471.5	471.5
150°	483.0	483.2	483.4	483.6	483.8	484.0	484.2	484.4	484.6	484.6	484.6
152.5°	494.8	495.1	495.3	495.6	495.8	495.9	496.1	496.2	496.3	496.6	496.7
155°	513.0	513.0	513.0	513.0	513.1	513.2	513.3	513.4	513.5	513.9	514.3
157.5°	528.7	528.6	528.4	528.3	528.3	528.4	528.5	528.5	528.6	529.0	529.5
160°	538.5	538.3	538.1	537.9	537.8	537.8	537.8	537.8	537.8	538.3	538.8
162.5°	547.1	546.8	546.5	546.3	546.2	546.2	546.3	546.4	546.5	547.0	547.5
165°	558.5	558.2	557.8	557.5	557.4	557.4	557.4	557.4	557.4	558.1	558.7
167.5°	567.4	567.0	566.6	566.2	566.0	566.1	566.2	566.3	566.3	567.0	567.6
170°	572.6	572.2	571.8	571.4	571.2	571.2	571.2	571.2	571.2	571.9	572.6
172.5°	576.6	576.2	575.8	575.3	575.1	575.1	575.1	575.1	575.1	575.8	576.4
175°	580.8	580.4	580.0	579.6	579.4	579.4	579.4	579.4	579.4	580.0	580.6
177.5°	582.6	582.3	582.0	581.7	581.5	581.5	581.5	581.5	581.5	582.0	582.5
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6	582.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1693.3	1693.3	1695.6	1703.8	1705.0	1712.0	1709.9
5°	1861.1	1874.1	1879.0	1899.6	1911.9	1917.4	1906.4
7.5°	2066.2	2102.9	2120.4	2142.0	2161.1	2166.9	2151.9
10°	2215.6	2254.1	2286.4	2306.4	2324.9	2337.3	2353.1
12.5°	2360.3	2407.5	2438.2	2466.4	2485.5	2501.1	2503.8
15°	2517.4	2588.9	2643.1	2683.0	2702.9	2713.2	2709.2
17.5°	2675.8	2742.1	2780.8	2821.5	2849.0	2850.4	2851.3
20°	2765.5	2830.0	2874.8	2905.0	2935.9	2934.6	2941.4
22.5°	2825.4	2876.3	2910.5	2932.4	2943.0	2937.8	2939.2
25°	2853.5	2868.5	2862.4	2827.3	2818.4	2786.1	2791.6
27.5°	2708.9	2637.4	2563.4	2468.3	2393.3	2333.3	2336.3
30°	2512.5	2386.1	2241.8	2120.8	2012.3	1982.1	1917.4
32.5°	2238.3	2048.5	1879.5	1766.8	1673.5	1648.3	1592.0
35°	1773.1	1588.9	1415.0	1310.6	1269.3	1211.6	1210.9
37.5°	1378.2	1216.0	1124.1	1045.7	1004.6	969.7	966.2
40°	1159.4	1032.9	963.5	907.2	866.7	840.5	834.4
42.5°	1006.5	904.2	839.3	804.4	773.2	759.7	749.6
45°	821.9	753.3	707.8	676.2	661.9	651.5	646.0
47.5°	687.5	641.5	610.6	589.6	577.8	566.9	569.9
50°	614.4	576.6	553.9	534.0	525.0	517.5	518.2
52.5°	555.5	521.6	503.3	488.9	477.8	472.4	469.8
55°	471.4	450.1	431.6	421.3	415.1	407.6	405.5
57.5°	402.1	385.7	370.5	358.9	357.4	350.1	351.0
60°	356.0	342.2	329.9	323.7	318.9	312.7	314.8
62.5°	318.1	306.5	295.3	290.1	285.4	280.8	281.8
65°	260.4	249.4	242.6	239.8	237.8	235.7	233.7
67.5°	207.5	200.9	196.5	190.7	186.4	185.7	183.6
70°	174.6	165.6	158.0	150.5	148.5	147.7	148.5
72.5°	140.0	134.3	132.2	128.6	128.2	126.3	127.5
75°	105.1	103.1	101.7	99.0	99.0	99.0	99.0
77.5°	77.6	76.2	75.4	74.9	74.2	73.2	73.1
80°	60.5	59.8	58.4	58.4	57.8	58.4	57.8
82.5°	45.6	45.5	44.1	44.1	43.4	43.0	43.4
85°	23.3	22.7	24.0	22.7	23.3	22.0	23.3
87.5°	9.1	9.1	8.6	8.7	8.2	9.3	8.3
90°	12.2	12.6	12.9	13.1	13.3	13.5	13.7
92.5°	18.6	18.9	19.0	18.9	18.7	18.6	18.5
95°	35.0	35.4	35.6	35.6	35.6	35.6	35.6
97.5°	54.4	54.8	55.0	55.0	55.0	54.9	54.9
100°	68.2	68.5	68.8	69.0	69.2	69.4	69.6
102.5°	84.3	84.6	84.7	84.7	84.6	84.6	84.5
105°	108.0	108.0	108.1	108.4	108.6	108.8	109.0
107.5°	134.3	134.6	134.7	134.6	134.5	134.4	134.3
110°	151.8	152.2	152.3	152.1	151.9	151.7	151.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	169.3	169.8	170.0	169.9	169.9	169.9	169.8
115°	195.3	195.4	195.4	195.3	195.2	195.1	195.0
117.5°	221.8	221.8	221.7	221.4	221.1	220.8	220.5
120°	239.5	239.4	239.2	239.0	238.8	238.6	238.4
122.5°	257.3	257.0	256.8	256.5	256.2	255.9	255.6
125°	283.9	283.5	283.1	282.7	282.3	281.9	281.4
127.5°	310.1	309.5	309.0	308.6	308.1	307.6	307.2
130°	327.8	327.4	326.9	326.2	325.5	324.8	324.0
132.5°	344.8	344.3	343.8	343.3	342.6	342.1	341.5
135°	370.4	370.0	369.7	369.5	369.3	369.1	368.9
137.5°	395.4	394.9	394.5	394.0	393.7	393.3	392.9
140°	412.0	411.9	411.5	410.8	410.1	409.4	408.7
142.5°	427.4	427.3	427.0	426.5	425.9	425.4	424.7
145°	450.0	449.9	449.7	449.3	448.9	448.5	448.1
147.5°	471.5	471.5	471.2	470.6	469.9	469.3	468.7
150°	484.6	484.6	484.3	483.7	483.1	482.5	481.9
152.5°	496.9	497.1	496.9	496.3	495.7	495.2	494.7
155°	514.7	515.1	514.9	514.2	513.5	512.8	512.1
157.5°	529.9	530.3	530.2	529.7	529.1	528.5	528.0
160°	539.3	539.8	539.8	539.4	539.0	538.6	538.2
162.5°	548.1	548.6	548.5	547.9	547.1	546.5	545.8
165°	559.3	559.9	559.8	559.1	558.4	557.6	556.9
167.5°	568.3	568.9	568.9	568.3	567.6	567.0	566.3
170°	573.3	574.0	574.0	573.3	572.6	571.9	571.2
172.5°	577.0	577.6	577.6	576.9	576.2	575.5	574.8
175°	581.2	581.8	581.8	581.1	580.4	579.7	579.0
177.5°	583.0	583.4	583.4	582.8	582.3	581.7	581.1
180°	582.6	582.6	582.6	582.6	582.6	582.6	582.6

(END OF REPORT)