

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: P332356-927

Luminaire Tested: **S123RDIP-S1000D1195U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332356-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIP-S1000D1195U927-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

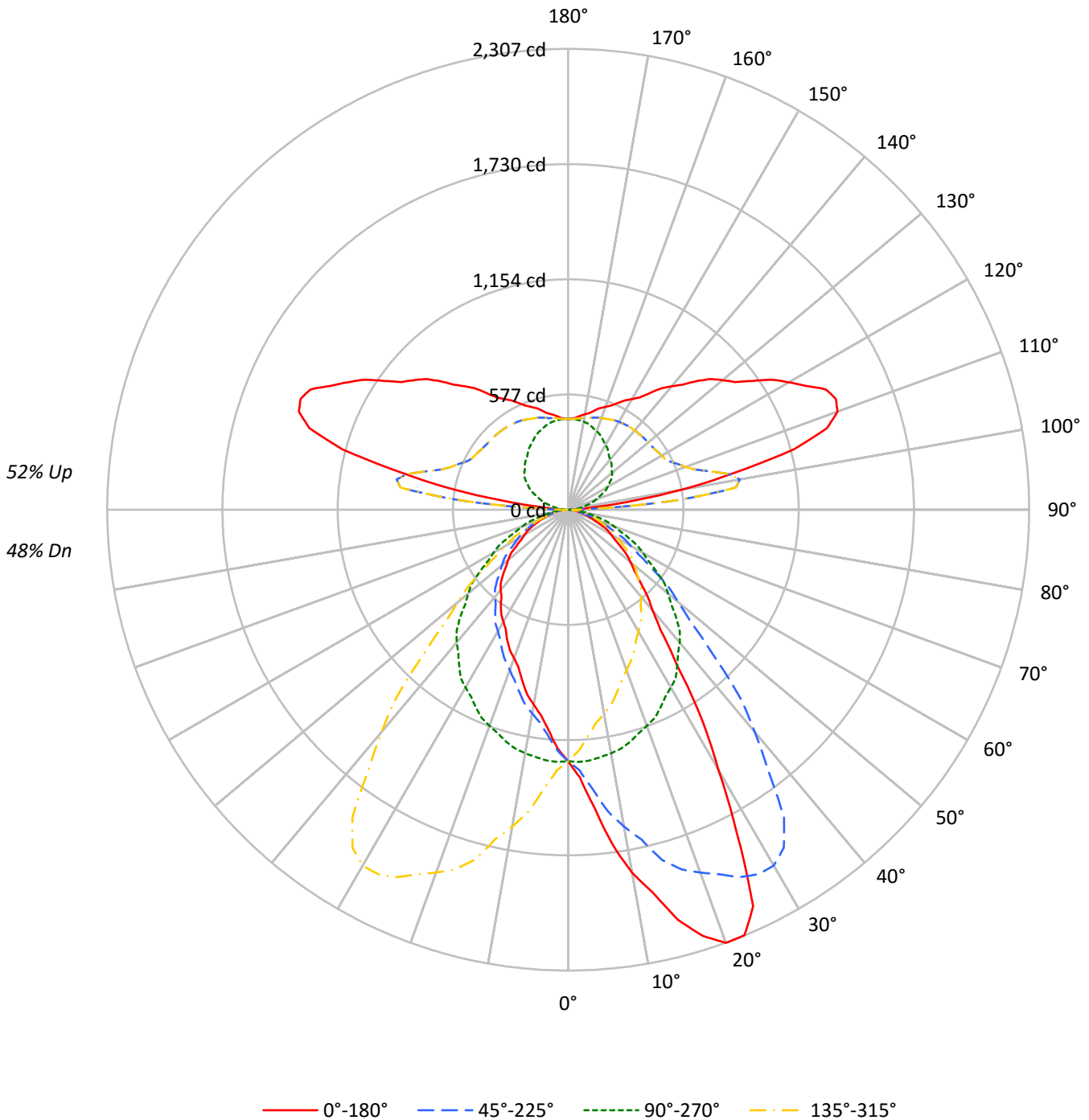
Lumens per Lamp: N/A  
Luminaire Lumens: 6559.8 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48				48
1	98	94	90	87	90	86	83	81	73	71	69	60	59	57	49	48	47	41				41
2	90	83	77	72	82	76	71	67	64	61	58	54	51	49	44	42	40	36				36
3	82	73	66	60	75	68	61	57	57	53	49	48	45	42	39	37	35	31				31
4	75	65	57	52	69	60	54	48	51	46	42	43	39	36	35	33	31	27				27
5	69	58	50	45	64	54	47	42	46	41	37	39	35	32	32	29	27	24				24
6	64	52	44	39	59	49	42	37	42	36	32	35	31	28	29	26	24	21				21
7	59	47	40	34	55	44	37	32	38	33	29	32	28	25	27	24	21	19				19
8	55	43	36	30	51	40	33	29	35	29	26	30	25	22	25	22	19	17				17
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	23	20	18	15				15
10	48	36	29	24	44	34	28	23	29	24	21	25	21	18	21	18	16	14				14

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

	0°	90°	180°	270°
0°	13555	13555	13555	13555
5°	16159	13613	11988	13613
10°	20176	13535	10831	13535
15°	23682	13397	9877	13397
20°	26431	13190	9065	13190
25°	26008	12973	8568	12973
30°	18695	12771	8054	12771
35°	12482	12510	7721	12510
40°	9197	12197	7378	12197
45°	7715	11645	7042	11645
50°	6807	10923	6571	10923
55°	5970	10098	5928	10098
60°	5315	9309	5431	9309
65°	4669	8458	5053	8458
70°	3666	7704	4614	7704
75°	3227	6729	4213	6729
80°	2808	5715	4147	5715
85°	2260	4594	4397	4594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.8	1.9
10°-20°	386.9	5.9
20°-30°	607.8	9.3
30°-40°	634.2	9.7
40°-50°	542.7	8.3
50°-60°	413.6	6.3
60°-70°	265.1	4.0
70°-80°	127.5	1.9
80°-90°	37.3	0.6
90°-100°	253.0	3.9
100°-110°	716.5	10.9
110°-120°	704.8	10.7
120°-130°	562.2	8.6
130°-140°	443.3	6.8
140°-150°	330.8	5.0
150°-160°	230.6	3.5
160°-170°	135.5	2.1
170°-180°	44.1	0.7
0°-30°	1118.6	17.1
0°-40°	1752.8	26.7
0°-60°	2709.1	41.3
0°-90°	3139.1	47.9
90°-120°	1674.3	25.5
90°-150°	3010.6	45.9
90°-180°	3421.0	52.2
0°-180°	6559.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1259	1259	1259	1259	1259	
5°	1496	1260	1110	1260	1496	154
15°	2125	1202	886	1202	2125	603
25°	2190	1092	721	1092	2190	941
35°	950	952	588	952	950	623
45°	507	765	463	765	507	398
55°	318	538	316	538	318	288
65°	183	332	198	332	183	180
75°	78	162	101	162	78	83
85°	18	37	36	37	18	22
90°	27	2	27	2	27	15
95°	107	31	107	31	107	192
105°	1171	107	1171	107	1171	1155
115°	1424	189	1424	189	1424	1383
125°	1123	262	1123	262	1123	1018
135°	910	307	910	307	910	706
145°	712	351	712	351	712	452
155°	590	398	590	398	590	275
165°	514	435	514	435	514	147
175°	463	454	463	454	463	45
180°	455	455	455	455	455	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1341.3	1343.0	1337.4	1336.6	1330.1	1328.3	1328.3	1319.3	1313.7	1306.4	1302.0
5°	1495.5	1504.1	1499.8	1490.1	1473.9	1470.1	1459.9	1443.8	1425.4	1402.7	1391.9
7.5°	1688.1	1699.8	1695.3	1680.3	1663.3	1649.6	1620.8	1593.9	1556.3	1523.3	1495.1
10°	1845.9	1833.5	1823.8	1809.3	1793.6	1768.2	1738.0	1696.5	1648.6	1610.8	1568.8
12.5°	1964.1	1962.0	1949.7	1934.7	1912.6	1888.6	1851.5	1800.9	1745.2	1690.7	1642.5
15°	2125.2	2128.4	2120.3	2104.7	2073.4	2030.8	1974.8	1953.8	1873.9	1814.7	1755.3
17.5°	2236.6	2236.0	2234.9	2213.3	2181.4	2151.0	2099.0	2043.8	1971.5	1887.9	1808.1
20°	2307.4	2302.0	2303.0	2278.8	2255.1	2220.0	2169.4	2089.1	2029.7	1933.2	1850.8
22.5°	2305.6	2304.5	2308.7	2300.3	2283.1	2256.3	2216.4	2148.6	2072.8	1975.5	1882.7
25°	2189.8	2185.6	2210.9	2217.9	2245.4	2250.2	2238.4	2201.2	2129.5	2029.2	1914.4
27.5°	1832.7	1830.3	1877.4	1936.3	2010.9	2068.9	2124.9	2152.0	2129.5	2057.7	1942.6
30°	1504.1	1554.8	1578.5	1663.7	1758.6	1871.8	1970.9	2065.3	2088.5	2057.2	1962.9
32.5°	1248.8	1293.0	1312.8	1385.9	1474.3	1606.9	1755.8	1889.4	1983.7	2007.6	1950.8
35°	949.9	950.5	995.7	1028.1	1110.0	1246.4	1390.9	1569.9	1747.8	1882.5	1896.6
37.5°	758.0	760.7	788.1	820.3	881.8	953.9	1081.1	1229.9	1435.4	1642.4	1763.6
40°	654.5	659.3	679.9	711.6	755.8	810.2	909.5	1049.6	1221.1	1451.3	1639.4
42.5°	588.0	596.0	606.5	631.0	658.4	709.3	789.6	897.9	1053.8	1271.5	1488.5
45°	506.8	511.0	519.2	530.4	555.2	590.9	644.8	717.6	846.9	1022.2	1239.4
47.5°	447.0	444.7	453.3	462.5	479.0	503.2	539.3	598.7	691.0	831.6	1015.9
50°	406.5	405.9	411.9	418.9	434.5	452.3	482.0	526.7	600.0	716.4	885.2
52.5°	368.5	370.6	374.8	383.5	394.8	409.2	435.8	468.0	531.0	631.5	772.2
55°	318.1	319.7	325.6	330.5	338.6	353.1	369.8	396.8	439.9	510.0	625.9
57.5°	275.4	274.6	280.4	281.5	290.7	302.5	315.4	336.4	367.7	419.8	497.8
60°	246.9	245.3	250.2	253.9	258.8	268.5	279.2	299.8	324.6	362.8	429.7
62.5°	221.0	220.3	223.9	227.6	231.6	240.4	249.5	265.2	284.9	317.1	370.2
65°	183.3	184.9	186.6	188.1	190.3	195.7	204.3	215.1	228.5	251.2	289.5
67.5°	144.0	145.7	146.2	149.6	154.2	157.6	162.8	172.4	181.8	200.9	222.7
70°	116.5	115.9	116.5	118.0	124.0	129.9	137.0	143.9	149.9	163.3	181.6
72.5°	100.1	99.1	100.5	100.8	103.7	105.4	109.8	116.4	124.0	133.2	146.3
75°	77.6	77.6	77.6	77.6	79.8	80.9	82.5	84.1	86.8	91.1	100.8
77.5°	57.4	57.4	58.2	58.8	59.2	59.8	60.8	62.4	63.4	65.7	69.9
80°	45.3	45.8	45.3	45.8	45.8	46.9	47.5	49.0	49.6	52.3	53.9
82.5°	34.1	33.7	34.1	34.6	34.6	35.7	35.8	37.0	37.1	38.5	40.1
85°	18.3	17.3	18.3	17.8	18.9	17.8	18.3	19.4	19.4	20.0	22.1
87.5°	9.7	10.7	9.7	9.9	10.1	10.1	10.0	9.7	10.5	10.2	10.1
90°	26.7	27.6	26.7	25.7	26.7	24.9	23.9	23.0	22.1	23.0	20.3
92.5°	44.4	46.0	45.1	47.8	49.5	54.3	61.5	77.5	106.8	141.6	155.7
95°	106.8	110.4	116.9	125.2	142.7	175.8	224.6	331.4	442.7	545.8	486.0
97.5°	290.7	298.6	323.4	364.9	432.8	542.9	661.6	825.9	904.9	845.8	619.2
100°	577.1	576.2	612.0	679.2	772.2	902.9	1010.6	1085.1	1053.0	871.6	589.1
102.5°	846.6	867.8	897.8	950.9	1023.3	1106.1	1168.9	1171.3	1060.3	823.8	544.9
105°	1170.8	1175.4	1204.8	1239.8	1282.1	1306.1	1288.6	1196.5	1004.2	740.0	490.6
107.5°	1357.4	1365.9	1375.8	1387.6	1386.9	1354.1	1273.4	1123.9	905.9	666.0	456.0
110°	1434.0	1435.8	1437.7	1430.3	1404.5	1340.1	1224.2	1054.8	844.0	624.0	442.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1449.5	1449.1	1442.1	1419.3	1372.1	1289.3	1159.4	986.3	790.3	596.0	435.4
115°	1423.9	1419.3	1400.8	1360.3	1291.3	1191.0	1055.7	895.6	725.2	566.0	432.6
117.5°	1342.5	1336.3	1309.7	1263.4	1191.4	1089.6	968.0	829.8	686.0	548.3	434.3
120°	1274.8	1269.2	1247.1	1195.6	1122.9	1029.9	919.5	795.2	665.4	540.3	437.2
122.5°	1211.4	1204.4	1180.1	1133.8	1069.1	982.8	880.4	767.9	648.5	535.1	442.4
125°	1122.9	1116.4	1093.4	1053.0	994.0	920.4	832.0	731.7	626.8	528.3	450.0
127.5°	1050.0	1044.1	1023.3	988.7	936.2	869.2	789.5	700.1	607.7	525.0	458.9
130°	1008.8	1001.4	982.1	949.0	900.2	837.6	763.0	680.2	597.3	522.8	464.8
132.5°	968.3	963.1	945.9	912.8	867.0	807.4	738.0	661.8	587.8	522.0	469.2
135°	910.3	903.8	887.2	859.7	814.5	762.1	702.3	636.9	575.3	520.9	475.9
137.5°	849.0	844.7	830.8	802.8	764.9	719.4	667.8	614.3	564.4	518.9	480.3
140°	806.3	807.2	792.5	766.7	731.7	692.1	647.9	601.0	557.8	518.2	483.2
142.5°	766.5	767.4	754.2	731.3	701.6	667.1	628.8	588.5	551.8	516.7	485.4
145°	711.5	709.6	702.3	682.9	659.9	633.3	603.8	573.4	544.0	514.5	486.9
147.5°	666.1	665.4	658.5	645.4	627.9	609.0	585.2	561.1	536.2	511.0	486.9
150°	639.7	639.7	634.1	624.0	610.2	592.7	573.4	552.2	531.1	508.0	486.9
152.5°	617.6	617.6	614.3	604.9	594.1	579.5	562.4	544.2	525.2	504.4	484.7
155°	589.9	589.1	587.2	579.9	571.6	560.5	546.7	532.0	516.3	498.0	482.3
157.5°	564.7	564.9	563.5	557.9	550.7	542.1	531.5	519.1	506.4	492.3	479.2
160°	548.6	549.5	549.5	544.0	537.5	531.1	521.9	511.7	499.8	487.8	477.7
162.5°	533.9	534.7	534.7	530.0	525.7	520.0	511.6	502.9	493.1	483.4	474.8
165°	514.5	514.5	515.4	511.7	508.0	503.4	497.0	491.5	484.1	476.7	470.3
167.5°	496.1	496.1	497.0	494.4	492.8	489.5	485.8	481.6	475.5	470.2	465.9
170°	485.1	485.1	486.0	484.1	483.2	481.3	477.7	474.9	470.3	465.7	463.0
172.5°	474.8	475.5	477.1	475.3	475.1	474.0	471.0	469.1	465.2	462.0	460.7
175°	463.0	463.9	464.8	463.9	463.9	463.9	462.0	461.1	459.3	457.4	457.4
177.5°	456.1	456.1	457.6	456.9	457.6	457.6	456.9	456.1	455.4	454.7	455.4
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1300.3	1299.0	1293.0	1286.1	1277.0	1271.0	1266.2	1263.7	1255.9	1246.4	1239.9
5°	1380.6	1364.5	1347.3	1326.2	1306.8	1286.8	1274.5	1259.9	1242.1	1222.2	1208.2
7.5°	1466.7	1435.0	1400.8	1365.6	1330.7	1299.5	1271.8	1248.2	1219.9	1191.3	1171.2
10°	1532.7	1486.3	1438.4	1389.3	1344.5	1302.5	1270.1	1238.3	1204.4	1171.5	1146.7
12.5°	1592.6	1531.6	1476.3	1416.0	1358.8	1308.5	1261.9	1224.6	1183.7	1148.6	1120.4
15°	1668.5	1606.0	1539.1	1447.5	1371.5	1307.9	1251.3	1202.2	1152.6	1109.5	1082.0
17.5°	1739.5	1645.4	1555.5	1479.1	1380.3	1300.8	1231.8	1173.1	1118.6	1072.9	1039.1
20°	1768.8	1677.7	1580.1	1482.6	1385.5	1296.6	1216.2	1151.5	1095.0	1043.1	1011.9
22.5°	1786.5	1683.3	1580.6	1475.7	1372.5	1280.2	1200.7	1129.6	1068.2	1019.0	980.4
25°	1807.0	1684.2	1571.0	1467.4	1362.3	1262.0	1167.7	1092.3	1026.0	973.6	932.6
27.5°	1820.7	1676.1	1542.3	1427.2	1320.6	1220.8	1134.2	1054.2	987.0	931.7	887.7
30°	1823.3	1669.6	1520.3	1395.7	1287.4	1195.7	1104.1	1027.5	956.4	897.6	856.7
32.5°	1826.7	1653.7	1490.5	1358.2	1247.3	1156.5	1073.5	1000.4	927.5	869.6	827.8
35°	1812.5	1644.8	1445.3	1293.3	1182.3	1094.4	1019.5	952.0	880.4	824.3	781.7
37.5°	1751.2	1609.8	1398.5	1220.2	1104.1	1022.7	961.6	902.9	837.1	776.7	736.5
40°	1689.6	1575.3	1362.3	1175.8	1054.5	970.9	915.9	868.0	804.4	747.7	704.6
42.5°	1597.7	1528.3	1327.9	1129.2	998.4	917.9	871.5	826.6	770.7	713.2	672.7
45°	1429.2	1438.4	1257.2	1055.0	920.8	840.0	796.2	765.0	715.4	668.0	626.5
47.5°	1217.8	1303.5	1174.3	976.0	838.9	763.0	724.8	697.6	664.2	617.6	579.7
50°	1079.8	1202.2	1107.9	923.0	787.7	712.2	674.4	652.3	623.2	586.5	550.4
52.5°	952.6	1084.0	1027.6	863.9	732.0	663.0	626.1	607.9	584.8	550.3	517.6
55°	776.8	910.0	897.1	774.7	648.6	586.5	558.5	538.1	522.4	496.5	470.6
57.5°	628.4	754.6	761.3	675.5	575.0	513.7	489.6	474.2	464.0	444.4	420.5
60°	534.8	650.7	673.4	608.6	522.4	468.5	444.7	432.4	424.3	408.6	390.3
62.5°	457.2	555.8	581.5	534.9	471.9	421.4	402.9	390.9	385.5	372.0	355.8
65°	349.9	431.8	456.6	430.7	397.8	357.4	342.3	332.1	327.3	319.7	307.8
67.5°	263.1	322.8	350.0	331.8	319.9	294.4	284.8	279.2	275.0	269.7	259.8
70°	211.4	255.6	283.6	278.7	269.0	255.6	248.5	244.8	240.4	236.1	227.5
72.5°	169.9	200.3	226.6	229.1	221.2	218.5	212.3	210.7	208.1	203.0	198.2
75°	112.6	133.7	152.0	159.1	162.2	164.9	162.2	161.8	161.2	156.9	154.2
77.5°	73.8	85.2	96.7	108.7	113.8	117.4	118.3	120.3	118.8	116.5	115.3
80°	56.6	59.3	67.4	77.6	85.7	89.0	91.1	92.2	91.7	91.1	89.0
82.5°	41.1	43.3	47.1	54.3	61.2	66.5	67.8	67.6	68.8	69.1	67.4
85°	22.1	22.7	23.7	24.8	28.6	34.5	36.1	37.2	38.3	38.3	35.0
87.5°	10.4	9.4	9.7	9.3	10.3	10.1	12.4	14.2	15.0	13.6	14.2
90°	17.5	14.7	12.0	10.1	8.3	5.5	3.6	1.8	3.6	5.5	8.3
92.5°	116.9	77.3	53.2	39.6	31.8	24.6	17.0	11.4	17.0	24.6	31.8
95°	335.0	197.9	119.6	83.7	59.8	44.2	34.1	31.3	34.1	44.2	59.8
97.5°	367.6	213.0	138.2	99.4	75.8	62.2	54.3	53.4	54.3	62.2	75.8
100°	347.0	210.8	146.3	110.4	88.3	75.5	69.0	68.1	69.0	75.5	88.3
102.5°	329.3	213.7	155.9	122.9	103.1	90.9	85.2	83.6	85.2	90.9	103.1
105°	316.6	221.8	172.1	143.5	126.1	115.0	109.6	106.8	109.6	115.0	126.1
107.5°	315.7	236.9	193.3	166.8	150.4	139.5	134.2	131.4	134.2	139.5	150.4
110°	319.4	249.5	208.0	182.2	166.6	156.5	151.9	149.1	151.9	156.5	166.6





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	326.8	262.0	223.5	198.4	182.8	172.7	168.1	165.3	168.1	172.7	182.8
115°	338.7	282.6	247.6	222.8	207.1	197.9	192.3	188.7	192.3	197.9	207.1
117.5°	354.5	304.4	269.9	246.8	229.3	220.9	216.3	212.1	216.3	220.9	229.3
120°	366.3	318.5	285.3	262.3	244.9	235.6	231.0	228.2	231.0	235.6	244.9
122.5°	377.4	333.2	300.8	276.3	259.5	249.6	245.0	242.2	245.0	249.6	259.5
125°	394.8	354.3	322.1	297.3	279.8	269.7	264.2	262.3	264.2	269.7	279.8
127.5°	409.2	372.7	341.7	316.8	297.5	287.2	280.4	277.6	280.4	287.2	297.5
130°	418.7	383.8	353.4	328.6	309.3	298.2	289.9	287.2	289.9	298.2	309.3
132.5°	427.6	393.4	363.8	339.6	320.3	307.0	298.0	294.5	298.0	307.0	320.3
135°	439.0	407.7	379.2	354.3	335.0	321.2	311.1	307.4	311.1	321.2	335.0
137.5°	447.5	417.6	390.2	367.3	348.1	333.4	323.4	319.6	323.4	333.4	348.1
140°	451.9	424.3	397.6	374.6	356.2	341.4	332.2	327.6	332.2	341.4	356.2
142.5°	456.3	429.4	403.5	382.0	363.5	350.3	340.4	336.5	340.4	350.3	363.5
145°	461.1	436.3	412.3	391.2	375.5	361.7	353.4	350.7	353.4	361.7	375.5
147.5°	464.1	441.8	419.9	401.9	386.7	374.8	366.7	365.0	366.7	374.8	386.7
150°	464.8	445.4	424.3	407.7	394.8	382.9	375.5	374.6	375.5	382.9	394.8
152.5°	466.3	447.7	429.4	413.6	402.2	391.7	384.4	384.2	384.4	391.7	402.2
155°	466.7	451.9	436.3	423.3	413.3	404.1	398.5	398.5	398.5	404.1	413.3
157.5°	467.5	454.3	441.8	431.8	423.2	415.1	410.7	410.0	410.7	415.1	423.2
160°	467.5	456.5	445.4	436.3	429.8	422.5	418.7	418.7	418.7	422.5	429.8
162.5°	466.8	457.2	447.7	440.0	434.3	428.3	425.4	425.4	425.4	428.3	434.3
165°	464.8	458.4	451.0	444.6	440.8	436.3	434.4	435.4	434.4	436.3	440.8
167.5°	463.3	458.2	452.8	448.8	446.2	442.7	441.8	442.9	441.8	442.7	446.2
170°	461.1	457.4	452.8	451.0	449.2	446.4	445.4	447.3	445.4	446.4	449.2
172.5°	460.4	457.4	453.6	452.5	451.4	449.3	449.2	450.3	449.2	449.3	451.4
175°	458.4	456.5	454.7	453.8	453.8	451.9	452.8	453.8	452.8	451.9	453.8
177.5°	456.9	455.4	454.7	454.7	454.7	453.9	454.7	455.4	454.7	453.9	454.7
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



TEST NUMBER: P332356-927

CATALOG NUMBER: S123RDIP-S1000D1195U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1237.8	1232.2	1228.3	1219.6	1214.1	1208.0	1202.0	1205.9	1205.5	1205.0	1205.0
5°	1196.3	1183.8	1172.6	1158.0	1148.8	1137.5	1128.9	1127.8	1130.0	1122.4	1118.1
7.5°	1155.1	1138.1	1122.1	1106.0	1089.0	1075.4	1066.9	1062.9	1057.4	1052.7	1047.9
10°	1126.2	1106.3	1090.6	1070.6	1052.3	1036.2	1026.0	1018.9	1015.1	1011.4	1004.3
12.5°	1096.5	1076.9	1057.0	1034.4	1017.0	998.2	990.5	982.7	975.5	971.2	961.6
15°	1052.9	1027.5	1006.5	982.8	963.4	945.1	934.3	918.6	916.5	911.1	901.4
17.5°	1009.2	981.7	952.7	935.2	913.2	894.1	877.7	872.5	857.1	851.3	842.8
20°	974.7	949.4	927.2	904.1	872.3	854.4	841.5	834.6	822.1	814.6	809.2
22.5°	944.9	919.2	893.7	866.6	840.3	820.4	811.0	800.0	793.2	782.7	776.8
25°	902.5	874.4	843.7	814.6	795.7	780.6	765.6	755.8	746.2	741.2	730.5
27.5°	853.1	823.8	795.0	772.9	749.8	734.9	721.2	712.6	700.9	692.8	686.8
30°	825.9	791.4	766.6	746.6	717.0	703.0	692.8	682.0	673.4	664.7	658.8
32.5°	794.4	763.0	739.4	714.8	692.0	676.7	663.5	653.9	646.6	638.4	632.5
35°	745.0	718.7	694.3	669.6	652.8	637.2	621.6	613.5	606.5	599.0	593.6
37.5°	700.4	675.7	652.7	629.2	608.4	595.7	583.1	576.9	567.4	562.4	556.9
40°	672.8	648.6	623.8	601.1	579.6	569.8	558.5	549.4	540.7	536.9	531.0
42.5°	642.6	618.4	597.5	573.1	555.4	542.2	531.8	521.7	515.3	509.8	506.4
45°	597.9	576.3	555.8	531.6	514.8	503.5	491.6	482.5	476.6	472.8	466.8
47.5°	554.4	532.8	512.1	490.9	474.8	461.8	450.0	443.5	435.7	431.1	427.1
50°	522.9	503.5	481.4	462.0	445.8	432.9	423.2	415.1	408.1	402.2	399.5
52.5°	494.0	473.3	454.2	436.2	419.1	404.4	395.6	387.1	381.8	375.0	371.9
55°	446.4	426.4	410.3	392.4	375.7	363.4	352.6	345.0	339.6	332.1	327.8
57.5°	401.6	383.7	364.4	349.0	331.8	321.3	312.4	302.1	295.6	289.6	285.4
60°	371.5	350.9	334.2	319.7	304.6	291.1	283.0	275.0	267.9	262.0	258.3
62.5°	339.9	322.1	306.2	290.3	276.6	264.8	255.4	248.7	242.5	238.7	235.0
65°	291.7	277.7	261.5	248.5	235.6	227.0	219.4	213.5	209.1	206.4	203.3
67.5°	247.2	233.6	219.5	206.8	198.2	191.6	186.6	181.6	179.4	175.9	173.8
70°	218.3	204.3	191.9	182.2	173.6	168.7	165.5	161.8	159.5	155.3	153.1
72.5°	186.9	176.7	167.8	159.8	152.9	148.5	144.3	139.7	136.3	131.5	129.4
75°	147.2	138.0	131.0	125.6	121.3	115.3	109.4	104.6	103.0	101.3	100.8
77.5°	109.0	103.2	98.2	93.6	88.2	83.9	82.6	81.5	81.2	80.3	80.3
80°	85.7	80.3	76.5	71.1	67.9	67.9	67.9	66.9	67.4	67.4	67.4
82.5°	63.7	58.8	56.7	54.7	54.1	54.6	54.6	54.7	54.4	55.3	54.9
85°	32.9	33.4	34.5	34.0	34.5	34.5	35.6	35.0	35.6	34.5	35.6
87.5°	14.1	15.8	16.7	17.7	18.7	18.9	19.1	19.3	19.9	20.0	20.4
90°	10.1	12.0	14.7	17.5	20.3	23.0	22.1	23.0	23.9	24.9	26.7
92.5°	39.6	53.2	77.3	116.9	155.7	141.6	106.8	77.5	61.5	54.3	49.5
95°	83.7	119.6	197.9	335.0	486.0	545.8	442.7	331.4	224.6	175.8	142.7
97.5°	99.4	138.2	213.0	367.6	619.2	845.8	904.9	825.9	661.6	542.9	432.8
100°	110.4	146.3	210.8	347.0	589.1	871.6	1053.0	1085.1	1010.6	902.9	772.2
102.5°	122.9	155.9	213.7	329.3	544.9	823.8	1060.3	1171.3	1168.9	1106.1	1023.3
105°	143.5	172.1	221.8	316.6	490.6	740.0	1004.2	1196.5	1288.6	1306.1	1282.1
107.5°	166.8	193.3	236.9	315.7	456.0	666.0	905.9	1123.9	1273.4	1354.1	1386.9
110°	182.2	208.0	249.5	319.4	442.7	624.0	844.0	1054.8	1224.2	1340.1	1404.5



TEST NUMBER: P332356-927

CATALOG NUMBER: S123RDIP-S1000D1195U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	198.4	223.5	262.0	326.8	435.4	596.0	790.3	986.3	1159.4	1289.3	1372.1
115°	222.8	247.6	282.6	338.7	432.6	566.0	725.2	895.6	1055.7	1191.0	1291.3
117.5°	246.8	269.9	304.4	354.5	434.3	548.3	686.0	829.8	968.0	1089.6	1191.4
120°	262.3	285.3	318.5	366.3	437.2	540.3	665.4	795.2	919.5	1029.9	1122.9
122.5°	276.3	300.8	333.2	377.4	442.4	535.1	648.5	767.9	880.4	982.8	1069.1
125°	297.3	322.1	354.3	394.8	450.0	528.3	626.8	731.7	832.0	920.4	994.0
127.5°	316.8	341.7	372.7	409.2	458.9	525.0	607.7	700.1	789.5	869.2	936.2
130°	328.6	353.4	383.8	418.7	464.8	522.8	597.3	680.2	763.0	837.6	900.2
132.5°	339.6	363.8	393.4	427.6	469.2	522.0	587.8	661.8	738.0	807.4	867.0
135°	354.3	379.2	407.7	439.0	475.9	520.9	575.3	636.9	702.3	762.1	814.5
137.5°	367.3	390.2	417.6	447.5	480.3	518.9	564.4	614.3	667.8	719.4	764.9
140°	374.6	397.6	424.3	451.9	483.2	518.2	557.8	601.0	647.9	692.1	731.7
142.5°	382.0	403.5	429.4	456.3	485.4	516.7	551.8	588.5	628.8	667.1	701.6
145°	391.2	412.3	436.3	461.1	486.9	514.5	544.0	573.4	603.8	633.3	659.9
147.5°	401.9	419.9	441.8	464.1	486.9	511.0	536.2	561.1	585.2	609.0	627.9
150°	407.7	424.3	445.4	464.8	486.9	508.0	531.1	552.2	573.4	592.7	610.2
152.5°	413.6	429.4	447.7	466.3	484.7	504.4	525.2	544.2	562.4	579.5	594.1
155°	423.3	436.3	451.9	466.7	482.3	498.0	516.3	532.0	546.7	560.5	571.6
157.5°	431.8	441.8	454.3	467.5	479.2	492.3	506.4	519.1	531.5	542.1	550.7
160°	436.3	445.4	456.5	467.5	477.7	487.8	499.8	511.7	521.9	531.1	537.5
162.5°	440.0	447.7	457.2	466.8	474.8	483.4	493.1	502.9	511.6	520.0	525.7
165°	444.6	451.0	458.4	464.8	470.3	476.7	484.1	491.5	497.0	503.4	508.0
167.5°	448.8	452.8	458.2	463.3	465.9	470.2	475.5	481.6	485.8	489.5	492.8
170°	451.0	452.8	457.4	461.1	463.0	465.7	470.3	474.9	477.7	481.3	483.2
172.5°	452.5	453.6	457.4	460.4	460.7	462.0	465.2	469.1	471.0	474.0	475.1
175°	453.8	454.7	456.5	458.4	457.4	457.4	459.3	461.1	462.0	463.9	463.9
177.5°	454.7	454.7	455.4	456.9	455.4	454.7	455.4	456.1	456.9	457.6	457.6
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



TEST NUMBER: P332356-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1199.8	1199.4	1199.8	1198.1	1199.8	1199.4	1199.8	1205.0	1205.0	1205.5	1205.9
5°	1116.5	1115.9	1114.4	1109.5	1114.4	1115.9	1116.5	1118.1	1122.4	1130.0	1127.8
7.5°	1043.7	1043.0	1038.2	1038.3	1038.2	1043.0	1043.7	1047.9	1052.7	1057.4	1062.9
10°	1000.6	1001.1	994.7	990.9	994.7	1001.1	1000.6	1004.3	1011.4	1015.1	1018.9
12.5°	958.8	956.2	951.1	946.9	951.1	956.2	958.8	961.6	971.2	975.5	982.7
15°	903.6	898.2	885.2	886.3	885.2	898.2	903.6	901.4	911.1	916.5	918.6
17.5°	838.5	834.6	834.3	826.8	834.3	834.6	838.5	842.8	851.3	857.1	872.5
20°	800.6	797.9	798.9	791.4	798.9	797.9	800.6	809.2	814.6	822.1	834.6
22.5°	770.8	768.1	763.6	761.2	763.6	768.1	770.8	776.8	782.7	793.2	800.0
25°	727.2	722.9	718.7	721.4	718.7	722.9	727.2	730.5	741.2	746.2	755.8
27.5°	683.7	680.5	676.1	675.6	676.1	680.5	683.7	686.8	692.8	700.9	712.6
30°	656.1	652.8	650.7	648.0	650.7	652.8	656.1	658.8	664.7	673.4	682.0
32.5°	628.0	627.4	623.5	623.0	623.5	627.4	628.0	632.5	638.4	646.6	653.9
35°	591.4	588.2	587.1	587.6	587.1	588.2	591.4	593.6	599.0	606.5	613.5
37.5°	556.6	552.2	550.3	548.3	550.3	552.2	556.6	556.9	562.4	567.4	576.9
40°	531.6	527.3	526.2	525.1	526.2	527.3	531.6	531.0	536.9	540.7	549.4
42.5°	503.5	501.8	501.1	499.2	501.1	501.8	503.5	506.4	509.8	515.3	521.7
45°	465.2	464.7	461.4	462.6	461.4	464.7	465.2	466.8	472.8	476.6	482.5
47.5°	424.9	422.6	420.3	421.8	420.3	422.6	424.9	427.1	431.1	435.7	443.5
50°	397.4	396.2	391.4	392.4	391.4	396.2	397.4	399.5	402.2	408.1	415.1
52.5°	369.7	365.6	363.8	363.1	363.8	365.6	369.7	371.9	375.0	381.8	387.1
55°	324.0	319.2	317.0	315.9	317.0	319.2	324.0	327.8	332.1	339.6	345.0
57.5°	279.2	277.8	276.2	277.3	276.2	277.8	279.2	285.4	289.6	295.6	302.1
60°	252.9	252.9	252.9	252.3	252.9	252.9	252.9	258.3	262.0	267.9	275.0
62.5°	232.6	231.2	230.8	231.6	230.8	231.2	232.6	235.0	238.7	242.5	248.7
65°	201.6	201.1	198.9	198.4	198.9	201.1	201.6	203.3	206.4	209.1	213.5
67.5°	172.4	170.5	169.8	169.1	169.8	170.5	172.4	173.8	175.9	179.4	181.6
70°	150.4	149.3	146.1	146.6	146.1	149.3	150.4	153.1	155.3	159.5	161.8
72.5°	126.7	125.6	124.9	124.2	124.9	125.6	126.7	129.4	131.5	136.3	139.7
75°	100.3	99.7	99.2	101.3	99.2	99.7	100.3	100.8	101.3	103.0	104.6
77.5°	80.3	80.3	80.6	79.8	80.6	80.3	80.3	80.3	80.3	81.2	81.5
80°	67.4	67.4	66.9	66.9	66.9	67.4	67.4	67.4	67.4	67.4	66.9
82.5°	54.0	54.4	54.7	53.9	54.7	54.4	54.0	54.9	55.3	54.4	54.7
85°	35.6	35.0	36.1	35.6	36.1	35.0	35.6	35.6	34.5	35.6	35.0
87.5°	21.2	20.4	20.6	20.8	20.6	20.4	21.2	20.4	20.0	19.9	19.3
90°	25.7	26.7	27.6	26.7	27.6	26.7	25.7	26.7	24.9	23.9	23.0
92.5°	47.8	45.1	46.0	44.4	46.0	45.1	47.8	49.5	54.3	61.5	77.5
95°	125.2	116.9	110.4	106.8	110.4	116.9	125.2	142.7	175.8	224.6	331.4
97.5°	364.9	323.4	298.6	290.7	298.6	323.4	364.9	432.8	542.9	661.6	825.9
100°	679.2	612.0	576.2	577.1	576.2	612.0	679.2	772.2	902.9	1010.6	1085.1
102.5°	950.9	897.8	867.8	846.6	867.8	897.8	950.9	1023.3	1106.1	1168.9	1171.3
105°	1239.8	1204.8	1175.4	1170.8	1175.4	1204.8	1239.8	1282.1	1306.1	1288.6	1196.5
107.5°	1387.6	1375.8	1365.9	1357.4	1365.9	1375.8	1387.6	1386.9	1354.1	1273.4	1123.9
110°	1430.3	1437.7	1435.8	1434.0	1435.8	1437.7	1430.3	1404.5	1340.1	1224.2	1054.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1419.3	1442.1	1449.1	1449.5	1449.1	1442.1	1419.3	1372.1	1289.3	1159.4	986.3
115°	1360.3	1400.8	1419.3	1423.9	1419.3	1400.8	1360.3	1291.3	1191.0	1055.7	895.6
117.5°	1263.4	1309.7	1336.3	1342.5	1336.3	1309.7	1263.4	1191.4	1089.6	968.0	829.8
120°	1195.6	1247.1	1269.2	1274.8	1269.2	1247.1	1195.6	1122.9	1029.9	919.5	795.2
122.5°	1133.8	1180.1	1204.4	1211.4	1204.4	1180.1	1133.8	1069.1	982.8	880.4	767.9
125°	1053.0	1093.4	1116.4	1122.9	1116.4	1093.4	1053.0	994.0	920.4	832.0	731.7
127.5°	988.7	1023.3	1044.1	1050.0	1044.1	1023.3	988.7	936.2	869.2	789.5	700.1
130°	949.0	982.1	1001.4	1008.8	1001.4	982.1	949.0	900.2	837.6	763.0	680.2
132.5°	912.8	945.9	963.1	968.3	963.1	945.9	912.8	867.0	807.4	738.0	661.8
135°	859.7	887.2	903.8	910.3	903.8	887.2	859.7	814.5	762.1	702.3	636.9
137.5°	802.8	830.8	844.7	849.0	844.7	830.8	802.8	764.9	719.4	667.8	614.3
140°	766.7	792.5	807.2	806.3	807.2	792.5	766.7	731.7	692.1	647.9	601.0
142.5°	731.3	754.2	767.4	766.5	767.4	754.2	731.3	701.6	667.1	628.8	588.5
145°	682.9	702.3	709.6	711.5	709.6	702.3	682.9	659.9	633.3	603.8	573.4
147.5°	645.4	658.5	665.4	666.1	665.4	658.5	645.4	627.9	609.0	585.2	561.1
150°	624.0	634.1	639.7	639.7	639.7	634.1	624.0	610.2	592.7	573.4	552.2
152.5°	604.9	614.3	617.6	617.6	617.6	614.3	604.9	594.1	579.5	562.4	544.2
155°	579.9	587.2	589.1	589.9	589.1	587.2	579.9	571.6	560.5	546.7	532.0
157.5°	557.9	563.5	564.9	564.7	564.9	563.5	557.9	550.7	542.1	531.5	519.1
160°	544.0	549.5	549.5	548.6	549.5	549.5	544.0	537.5	531.1	521.9	511.7
162.5°	530.0	534.7	534.7	533.9	534.7	534.7	530.0	525.7	520.0	511.6	502.9
165°	511.7	515.4	514.5	514.5	514.5	515.4	511.7	508.0	503.4	497.0	491.5
167.5°	494.4	497.0	496.1	496.1	496.1	497.0	494.4	492.8	489.5	485.8	481.6
170°	484.1	486.0	485.1	485.1	485.1	486.0	484.1	483.2	481.3	477.7	474.9
172.5°	475.3	477.1	475.5	474.8	475.5	477.1	475.3	475.1	474.0	471.0	469.1
175°	463.9	464.8	463.9	463.0	463.9	464.8	463.9	463.9	463.9	462.0	461.1
177.5°	456.9	457.6	456.1	456.1	456.1	457.6	456.9	457.6	457.6	456.9	456.1
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1202.0	1208.0	1214.1	1219.6	1228.3	1232.2	1237.8	1239.9	1246.4	1255.9	1263.7
5°	1128.9	1137.5	1148.8	1158.0	1172.6	1183.8	1196.3	1208.2	1222.2	1242.1	1259.9
7.5°	1066.9	1075.4	1089.0	1106.0	1122.1	1138.1	1155.1	1171.2	1191.3	1219.9	1248.2
10°	1026.0	1036.2	1052.3	1070.6	1090.6	1106.3	1126.2	1146.7	1171.5	1204.4	1238.3
12.5°	990.5	998.2	1017.0	1034.4	1057.0	1076.9	1096.5	1120.4	1148.6	1183.7	1224.6
15°	934.3	945.1	963.4	982.8	1006.5	1027.5	1052.9	1082.0	1109.5	1152.6	1202.2
17.5°	877.7	894.1	913.2	935.2	952.7	981.7	1009.2	1039.1	1072.9	1118.6	1173.1
20°	841.5	854.4	872.3	904.1	927.2	949.4	974.7	1011.9	1043.1	1095.0	1151.5
22.5°	811.0	820.4	840.3	866.6	893.7	919.2	944.9	980.4	1019.0	1068.2	1129.6
25°	765.6	780.6	795.7	814.6	843.7	874.4	902.5	932.6	973.6	1026.0	1092.3
27.5°	721.2	734.9	749.8	772.9	795.0	823.8	853.1	887.7	931.7	987.0	1054.2
30°	692.8	703.0	717.0	746.6	766.6	791.4	825.9	856.7	897.6	956.4	1027.5
32.5°	663.5	676.7	692.0	714.8	739.4	763.0	794.4	827.8	869.6	927.5	1000.4
35°	621.6	637.2	652.8	669.6	694.3	718.7	745.0	781.7	824.3	880.4	952.0
37.5°	583.1	595.7	608.4	629.2	652.7	675.7	700.4	736.5	776.7	837.1	902.9
40°	558.5	569.8	579.6	601.1	623.8	648.6	672.8	704.6	747.7	804.4	868.0
42.5°	531.8	542.2	555.4	573.1	597.5	618.4	642.6	672.7	713.2	770.7	826.6
45°	491.6	503.5	514.8	531.6	555.8	576.3	597.9	626.5	668.0	715.4	765.0
47.5°	450.0	461.8	474.8	490.9	512.1	532.8	554.4	579.7	617.6	664.2	697.6
50°	423.2	432.9	445.8	462.0	481.4	503.5	522.9	550.4	586.5	623.2	652.3
52.5°	395.6	404.4	419.1	436.2	454.2	473.3	494.0	517.6	550.3	584.8	607.9
55°	352.6	363.4	375.7	392.4	410.3	426.4	446.4	470.6	496.5	522.4	538.1
57.5°	312.4	321.3	331.8	349.0	364.4	383.7	401.6	420.5	444.4	464.0	474.2
60°	283.0	291.1	304.6	319.7	334.2	350.9	371.5	390.3	408.6	424.3	432.4
62.5°	255.4	264.8	276.6	290.3	306.2	322.1	339.9	355.8	372.0	385.5	390.9
65°	219.4	227.0	235.6	248.5	261.5	277.7	291.7	307.8	319.7	327.3	332.1
67.5°	186.6	191.6	198.2	206.8	219.5	233.6	247.2	259.8	269.7	275.0	279.2
70°	165.5	168.7	173.6	182.2	191.9	204.3	218.3	227.5	236.1	240.4	244.8
72.5°	144.3	148.5	152.9	159.8	167.8	176.7	186.9	198.2	203.0	208.1	210.7
75°	109.4	115.3	121.3	125.6	131.0	138.0	147.2	154.2	156.9	161.2	161.8
77.5°	82.6	83.9	88.2	93.6	98.2	103.2	109.0	115.3	116.5	118.8	120.3
80°	67.9	67.9	67.9	71.1	76.5	80.3	85.7	89.0	91.1	91.7	92.2
82.5°	54.6	54.6	54.1	54.7	56.7	58.8	63.7	67.4	69.1	68.8	67.6
85°	35.6	34.5	34.5	34.0	34.5	33.4	32.9	35.0	38.3	38.3	37.2
87.5°	19.1	18.9	18.7	17.7	16.7	15.8	14.1	14.2	13.6	15.0	14.2
90°	22.1	23.0	20.3	17.5	14.7	12.0	10.1	8.3	5.5	3.6	1.8
92.5°	106.8	141.6	155.7	116.9	77.3	53.2	39.6	31.8	24.6	17.0	11.4
95°	442.7	545.8	486.0	335.0	197.9	119.6	83.7	59.8	44.2	34.1	31.3
97.5°	904.9	845.8	619.2	367.6	213.0	138.2	99.4	75.8	62.2	54.3	53.4
100°	1053.0	871.6	589.1	347.0	210.8	146.3	110.4	88.3	75.5	69.0	68.1
102.5°	1060.3	823.8	544.9	329.3	213.7	155.9	122.9	103.1	90.9	85.2	83.6
105°	1004.2	740.0	490.6	316.6	221.8	172.1	143.5	126.1	115.0	109.6	106.8
107.5°	905.9	666.0	456.0	315.7	236.9	193.3	166.8	150.4	139.5	134.2	131.4
110°	844.0	624.0	442.7	319.4	249.5	208.0	182.2	166.6	156.5	151.9	149.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	790.3	596.0	435.4	326.8	262.0	223.5	198.4	182.8	172.7	168.1	165.3
115°	725.2	566.0	432.6	338.7	282.6	247.6	222.8	207.1	197.9	192.3	188.7
117.5°	686.0	548.3	434.3	354.5	304.4	269.9	246.8	229.3	220.9	216.3	212.1
120°	665.4	540.3	437.2	366.3	318.5	285.3	262.3	244.9	235.6	231.0	228.2
122.5°	648.5	535.1	442.4	377.4	333.2	300.8	276.3	259.5	249.6	245.0	242.2
125°	626.8	528.3	450.0	394.8	354.3	322.1	297.3	279.8	269.7	264.2	262.3
127.5°	607.7	525.0	458.9	409.2	372.7	341.7	316.8	297.5	287.2	280.4	277.6
130°	597.3	522.8	464.8	418.7	383.8	353.4	328.6	309.3	298.2	289.9	287.2
132.5°	587.8	522.0	469.2	427.6	393.4	363.8	339.6	320.3	307.0	298.0	294.5
135°	575.3	520.9	475.9	439.0	407.7	379.2	354.3	335.0	321.2	311.1	307.4
137.5°	564.4	518.9	480.3	447.5	417.6	390.2	367.3	348.1	333.4	323.4	319.6
140°	557.8	518.2	483.2	451.9	424.3	397.6	374.6	356.2	341.4	332.2	327.6
142.5°	551.8	516.7	485.4	456.3	429.4	403.5	382.0	363.5	350.3	340.4	336.5
145°	544.0	514.5	486.9	461.1	436.3	412.3	391.2	375.5	361.7	353.4	350.7
147.5°	536.2	511.0	486.9	464.1	441.8	419.9	401.9	386.7	374.8	366.7	365.0
150°	531.1	508.0	486.9	464.8	445.4	424.3	407.7	394.8	382.9	375.5	374.6
152.5°	525.2	504.4	484.7	466.3	447.7	429.4	413.6	402.2	391.7	384.4	384.2
155°	516.3	498.0	482.3	466.7	451.9	436.3	423.3	413.3	404.1	398.5	398.5
157.5°	506.4	492.3	479.2	467.5	454.3	441.8	431.8	423.2	415.1	410.7	410.0
160°	499.8	487.8	477.7	467.5	456.5	445.4	436.3	429.8	422.5	418.7	418.7
162.5°	493.1	483.4	474.8	466.8	457.2	447.7	440.0	434.3	428.3	425.4	425.4
165°	484.1	476.7	470.3	464.8	458.4	451.0	444.6	440.8	436.3	434.4	435.4
167.5°	475.5	470.2	465.9	463.3	458.2	452.8	448.8	446.2	442.7	441.8	442.9
170°	470.3	465.7	463.0	461.1	457.4	452.8	451.0	449.2	446.4	445.4	447.3
172.5°	465.2	462.0	460.7	460.4	457.4	453.6	452.5	451.4	449.3	449.2	450.3
175°	459.3	457.4	457.4	458.4	456.5	454.7	453.8	453.8	451.9	452.8	453.8
177.5°	455.4	454.7	455.4	456.9	455.4	454.7	454.7	454.7	453.9	454.7	455.4
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



TEST NUMBER: P332356-927

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1266.2	1271.0	1277.0	1286.1	1293.0	1299.0	1300.3	1302.0	1306.4	1313.7	1319.3
5°	1274.5	1286.8	1306.8	1326.2	1347.3	1364.5	1380.6	1391.9	1402.7	1425.4	1443.8
7.5°	1271.8	1299.5	1330.7	1365.6	1400.8	1435.0	1466.7	1495.1	1523.3	1556.3	1593.9
10°	1270.1	1302.5	1344.5	1389.3	1438.4	1486.3	1532.7	1568.8	1610.8	1648.6	1696.5
12.5°	1261.9	1308.5	1358.8	1416.0	1476.3	1531.6	1592.6	1642.5	1690.7	1745.2	1800.9
15°	1251.3	1307.9	1371.5	1447.5	1539.1	1606.0	1668.5	1755.3	1814.7	1873.9	1953.8
17.5°	1231.8	1300.8	1380.3	1479.1	1555.5	1645.4	1739.5	1808.1	1887.9	1971.5	2043.8
20°	1216.2	1296.6	1385.5	1482.6	1580.1	1677.7	1768.8	1850.8	1933.2	2029.7	2089.1
22.5°	1200.7	1280.2	1372.5	1475.7	1580.6	1683.3	1786.5	1882.7	1975.5	2072.8	2148.6
25°	1167.7	1262.0	1362.3	1467.4	1571.0	1684.2	1807.0	1914.4	2029.2	2129.5	2201.2
27.5°	1134.2	1220.8	1320.6	1427.2	1542.3	1676.1	1820.7	1942.6	2057.7	2129.5	2152.0
30°	1104.1	1195.7	1287.4	1395.7	1520.3	1669.6	1823.3	1962.9	2057.2	2088.5	2065.3
32.5°	1073.5	1156.5	1247.3	1358.2	1490.5	1653.7	1826.7	1950.8	2007.6	1983.7	1889.4
35°	1019.5	1094.4	1182.3	1293.3	1445.3	1644.8	1812.5	1896.6	1882.5	1747.8	1569.9
37.5°	961.6	1022.7	1104.1	1220.2	1398.5	1609.8	1751.2	1763.6	1642.4	1435.4	1229.9
40°	915.9	970.9	1054.5	1175.8	1362.3	1575.3	1689.6	1639.4	1451.3	1221.1	1049.6
42.5°	871.5	917.9	998.4	1129.2	1327.9	1528.3	1597.7	1488.5	1271.5	1053.8	897.9
45°	796.2	840.0	920.8	1055.0	1257.2	1438.4	1429.2	1239.4	1022.2	846.9	717.6
47.5°	724.8	763.0	838.9	976.0	1174.3	1303.5	1217.8	1015.9	831.6	691.0	598.7
50°	674.4	712.2	787.7	923.0	1107.9	1202.2	1079.8	885.2	716.4	600.0	526.7
52.5°	626.1	663.0	732.0	863.9	1027.6	1084.0	952.6	772.2	631.5	531.0	468.0
55°	558.5	586.5	648.6	774.7	897.1	910.0	776.8	625.9	510.0	439.9	396.8
57.5°	489.6	513.7	575.0	675.5	761.3	754.6	628.4	497.8	419.8	367.7	336.4
60°	444.7	468.5	522.4	608.6	673.4	650.7	534.8	429.7	362.8	324.6	299.8
62.5°	402.9	421.4	471.9	534.9	581.5	555.8	457.2	370.2	317.1	284.9	265.2
65°	342.3	357.4	397.8	430.7	456.6	431.8	349.9	289.5	251.2	228.5	215.1
67.5°	284.8	294.4	319.9	331.8	350.0	322.8	263.1	222.7	200.9	181.8	172.4
70°	248.5	255.6	269.0	278.7	283.6	255.6	211.4	181.6	163.3	149.9	143.9
72.5°	212.3	218.5	221.2	229.1	226.6	200.3	169.9	146.3	133.2	124.0	116.4
75°	162.2	164.9	162.2	159.1	152.0	133.7	112.6	100.8	91.1	86.8	84.1
77.5°	118.3	117.4	113.8	108.7	96.7	85.2	73.8	69.9	65.7	63.4	62.4
80°	91.1	89.0	85.7	77.6	67.4	59.3	56.6	53.9	52.3	49.6	49.0
82.5°	67.8	66.5	61.2	54.3	47.1	43.3	41.1	40.1	38.5	37.1	37.0
85°	36.1	34.5	28.6	24.8	23.7	22.7	22.1	22.1	20.0	19.4	19.4
87.5°	12.4	10.1	10.3	9.3	9.7	9.4	10.4	10.1	10.2	10.5	9.7
90°	3.6	5.5	8.3	10.1	12.0	14.7	17.5	20.3	23.0	22.1	23.0
92.5°	17.0	24.6	31.8	39.6	53.2	77.3	116.9	155.7	141.6	106.8	77.5
95°	34.1	44.2	59.8	83.7	119.6	197.9	335.0	486.0	545.8	442.7	331.4
97.5°	54.3	62.2	75.8	99.4	138.2	213.0	367.6	619.2	845.8	904.9	825.9
100°	69.0	75.5	88.3	110.4	146.3	210.8	347.0	589.1	871.6	1053.0	1085.1
102.5°	85.2	90.9	103.1	122.9	155.9	213.7	329.3	544.9	823.8	1060.3	1171.3
105°	109.6	115.0	126.1	143.5	172.1	221.8	316.6	490.6	740.0	1004.2	1196.5
107.5°	134.2	139.5	150.4	166.8	193.3	236.9	315.7	456.0	666.0	905.9	1123.9
110°	151.9	156.5	166.6	182.2	208.0	249.5	319.4	442.7	624.0	844.0	1054.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.1	172.7	182.8	198.4	223.5	262.0	326.8	435.4	596.0	790.3	986.3
115°	192.3	197.9	207.1	222.8	247.6	282.6	338.7	432.6	566.0	725.2	895.6
117.5°	216.3	220.9	229.3	246.8	269.9	304.4	354.5	434.3	548.3	686.0	829.8
120°	231.0	235.6	244.9	262.3	285.3	318.5	366.3	437.2	540.3	665.4	795.2
122.5°	245.0	249.6	259.5	276.3	300.8	333.2	377.4	442.4	535.1	648.5	767.9
125°	264.2	269.7	279.8	297.3	322.1	354.3	394.8	450.0	528.3	626.8	731.7
127.5°	280.4	287.2	297.5	316.8	341.7	372.7	409.2	458.9	525.0	607.7	700.1
130°	289.9	298.2	309.3	328.6	353.4	383.8	418.7	464.8	522.8	597.3	680.2
132.5°	298.0	307.0	320.3	339.6	363.8	393.4	427.6	469.2	522.0	587.8	661.8
135°	311.1	321.2	335.0	354.3	379.2	407.7	439.0	475.9	520.9	575.3	636.9
137.5°	323.4	333.4	348.1	367.3	390.2	417.6	447.5	480.3	518.9	564.4	614.3
140°	332.2	341.4	356.2	374.6	397.6	424.3	451.9	483.2	518.2	557.8	601.0
142.5°	340.4	350.3	363.5	382.0	403.5	429.4	456.3	485.4	516.7	551.8	588.5
145°	353.4	361.7	375.5	391.2	412.3	436.3	461.1	486.9	514.5	544.0	573.4
147.5°	366.7	374.8	386.7	401.9	419.9	441.8	464.1	486.9	511.0	536.2	561.1
150°	375.5	382.9	394.8	407.7	424.3	445.4	464.8	486.9	508.0	531.1	552.2
152.5°	384.4	391.7	402.2	413.6	429.4	447.7	466.3	484.7	504.4	525.2	544.2
155°	398.5	404.1	413.3	423.3	436.3	451.9	466.7	482.3	498.0	516.3	532.0
157.5°	410.7	415.1	423.2	431.8	441.8	454.3	467.5	479.2	492.3	506.4	519.1
160°	418.7	422.5	429.8	436.3	445.4	456.5	467.5	477.7	487.8	499.8	511.7
162.5°	425.4	428.3	434.3	440.0	447.7	457.2	466.8	474.8	483.4	493.1	502.9
165°	434.4	436.3	440.8	444.6	451.0	458.4	464.8	470.3	476.7	484.1	491.5
167.5°	441.8	442.7	446.2	448.8	452.8	458.2	463.3	465.9	470.2	475.5	481.6
170°	445.4	446.4	449.2	451.0	452.8	457.4	461.1	463.0	465.7	470.3	474.9
172.5°	449.2	449.3	451.4	452.5	453.6	457.4	460.4	460.7	462.0	465.2	469.1
175°	452.8	451.9	453.8	453.8	454.7	456.5	458.4	457.4	457.4	459.3	461.1
177.5°	454.7	453.9	454.7	454.7	454.7	455.4	456.9	455.4	454.7	455.4	456.1
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7	454.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1328.3	1328.3	1330.1	1336.6	1337.4	1343.0	1341.3
5°	1459.9	1470.1	1473.9	1490.1	1499.8	1504.1	1495.5
7.5°	1620.8	1649.6	1663.3	1680.3	1695.3	1699.8	1688.1
10°	1738.0	1768.2	1793.6	1809.3	1823.8	1833.5	1845.9
12.5°	1851.5	1888.6	1912.6	1934.7	1949.7	1962.0	1964.1
15°	1974.8	2030.8	2073.4	2104.7	2120.3	2128.4	2125.2
17.5°	2099.0	2151.0	2181.4	2213.3	2234.9	2236.0	2236.6
20°	2169.4	2220.0	2255.1	2278.8	2303.0	2302.0	2307.4
22.5°	2216.4	2256.3	2283.1	2300.3	2308.7	2304.5	2305.6
25°	2238.4	2250.2	2245.4	2217.9	2210.9	2185.6	2189.8
27.5°	2124.9	2068.9	2010.9	1936.3	1877.4	1830.3	1832.7
30°	1970.9	1871.8	1758.6	1663.7	1578.5	1554.8	1504.1
32.5°	1755.8	1606.9	1474.3	1385.9	1312.8	1293.0	1248.8
35°	1390.9	1246.4	1110.0	1028.1	995.7	950.5	949.9
37.5°	1081.1	953.9	881.8	820.3	788.1	760.7	758.0
40°	909.5	810.2	755.8	711.6	679.9	659.3	654.5
42.5°	789.6	709.3	658.4	631.0	606.5	596.0	588.0
45°	644.8	590.9	555.2	530.4	519.2	511.0	506.8
47.5°	539.3	503.2	479.0	462.5	453.3	444.7	447.0
50°	482.0	452.3	434.5	418.9	411.9	405.9	406.5
52.5°	435.8	409.2	394.8	383.5	374.8	370.6	368.5
55°	369.8	353.1	338.6	330.5	325.6	319.7	318.1
57.5°	315.4	302.5	290.7	281.5	280.4	274.6	275.4
60°	279.2	268.5	258.8	253.9	250.2	245.3	246.9
62.5°	249.5	240.4	231.6	227.6	223.9	220.3	221.0
65°	204.3	195.7	190.3	188.1	186.6	184.9	183.3
67.5°	162.8	157.6	154.2	149.6	146.2	145.7	144.0
70°	137.0	129.9	124.0	118.0	116.5	115.9	116.5
72.5°	109.8	105.4	103.7	100.8	100.5	99.1	100.1
75°	82.5	80.9	79.8	77.6	77.6	77.6	77.6
77.5°	60.8	59.8	59.2	58.8	58.2	57.4	57.4
80°	47.5	46.9	45.8	45.8	45.3	45.8	45.3
82.5°	35.8	35.7	34.6	34.6	34.1	33.7	34.1
85°	18.3	17.8	18.9	17.8	18.3	17.3	18.3
87.5°	10.0	10.1	10.1	9.9	9.7	10.7	9.7
90°	23.9	24.9	26.7	25.7	26.7	27.6	26.7
92.5°	61.5	54.3	49.5	47.8	45.1	46.0	44.4
95°	224.6	175.8	142.7	125.2	116.9	110.4	106.8
97.5°	661.6	542.9	432.8	364.9	323.4	298.6	290.7
100°	1010.6	902.9	772.2	679.2	612.0	576.2	577.1
102.5°	1168.9	1106.1	1023.3	950.9	897.8	867.8	846.6
105°	1288.6	1306.1	1282.1	1239.8	1204.8	1175.4	1170.8
107.5°	1273.4	1354.1	1386.9	1387.6	1375.8	1365.9	1357.4
110°	1224.2	1340.1	1404.5	1430.3	1437.7	1435.8	1434.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1159.4	1289.3	1372.1	1419.3	1442.1	1449.1	1449.5
115°	1055.7	1191.0	1291.3	1360.3	1400.8	1419.3	1423.9
117.5°	968.0	1089.6	1191.4	1263.4	1309.7	1336.3	1342.5
120°	919.5	1029.9	1122.9	1195.6	1247.1	1269.2	1274.8
122.5°	880.4	982.8	1069.1	1133.8	1180.1	1204.4	1211.4
125°	832.0	920.4	994.0	1053.0	1093.4	1116.4	1122.9
127.5°	789.5	869.2	936.2	988.7	1023.3	1044.1	1050.0
130°	763.0	837.6	900.2	949.0	982.1	1001.4	1008.8
132.5°	738.0	807.4	867.0	912.8	945.9	963.1	968.3
135°	702.3	762.1	814.5	859.7	887.2	903.8	910.3
137.5°	667.8	719.4	764.9	802.8	830.8	844.7	849.0
140°	647.9	692.1	731.7	766.7	792.5	807.2	806.3
142.5°	628.8	667.1	701.6	731.3	754.2	767.4	766.5
145°	603.8	633.3	659.9	682.9	702.3	709.6	711.5
147.5°	585.2	609.0	627.9	645.4	658.5	665.4	666.1
150°	573.4	592.7	610.2	624.0	634.1	639.7	639.7
152.5°	562.4	579.5	594.1	604.9	614.3	617.6	617.6
155°	546.7	560.5	571.6	579.9	587.2	589.1	589.9
157.5°	531.5	542.1	550.7	557.9	563.5	564.9	564.7
160°	521.9	531.1	537.5	544.0	549.5	549.5	548.6
162.5°	511.6	520.0	525.7	530.0	534.7	534.7	533.9
165°	497.0	503.4	508.0	511.7	515.4	514.5	514.5
167.5°	485.8	489.5	492.8	494.4	497.0	496.1	496.1
170°	477.7	481.3	483.2	484.1	486.0	485.1	485.1
172.5°	471.0	474.0	475.1	475.3	477.1	475.5	474.8
175°	462.0	463.9	463.9	463.9	464.8	463.9	463.0
177.5°	456.9	457.6	457.6	456.9	457.6	456.1	456.1
180°	454.7	454.7	454.7	454.7	454.7	454.7	454.7

(END OF REPORT)