

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: P332981-935

Luminaire Tested: **SA4XXRDIP-C1020D1205U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332981-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D1205U935-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

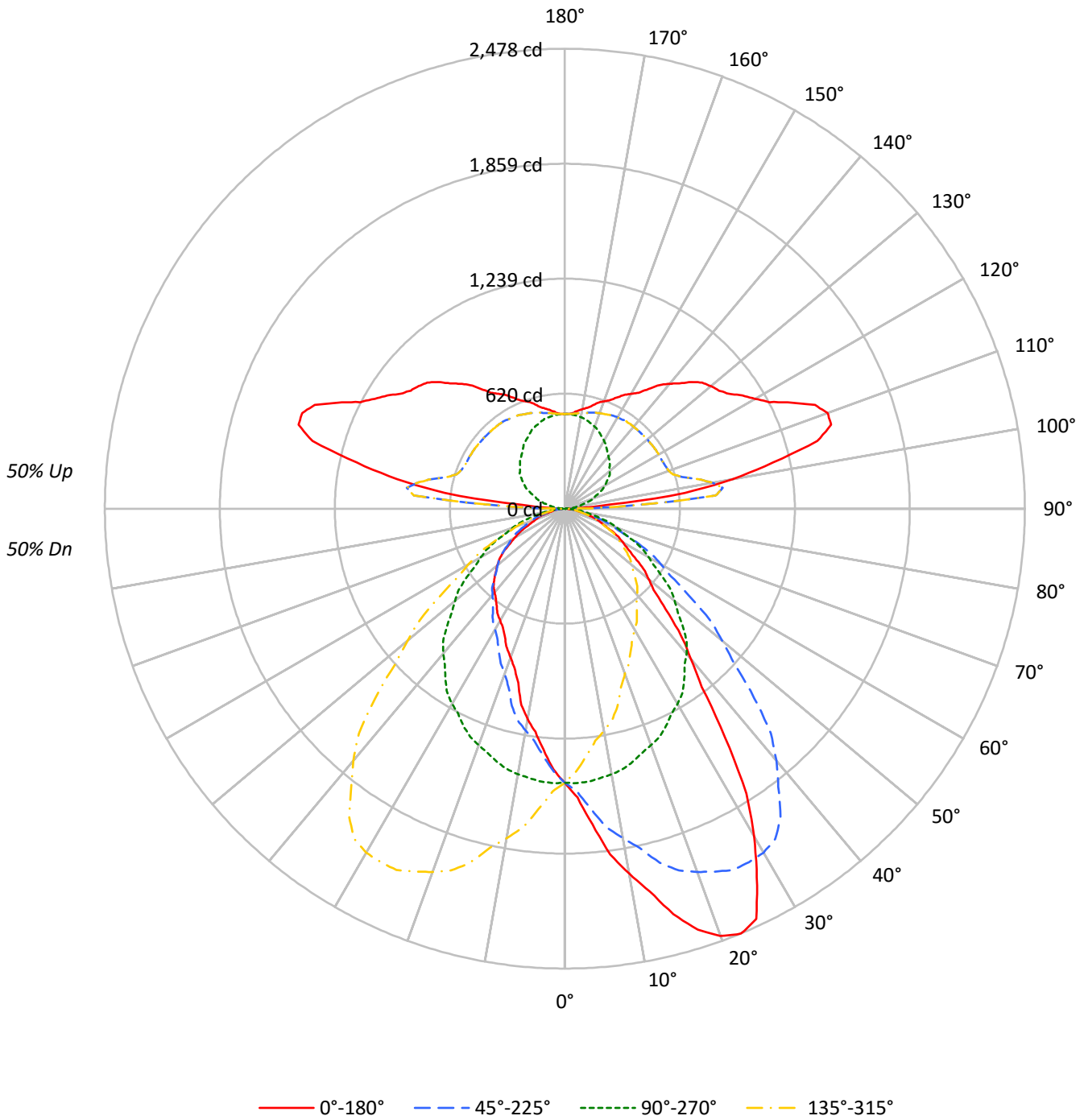
Lumens per Lamp: N/A
Luminaire Lumens: 7440.8 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	91	87	84	81	74	72	70	62	60	59	51	49	48	43
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37
3	82	73	66	60	76	68	62	57	58	53	49	49	45	43	40	38	36	32
4	75	65	57	51	69	60	54	48	52	47	43	44	40	37	36	33	31	28
5	69	58	50	44	64	54	47	42	46	41	37	39	35	32	33	30	27	24
6	64	52	44	39	59	49	42	37	42	36	32	36	32	28	30	27	24	21
7	59	47	39	34	55	44	37	32	38	33	29	33	28	25	27	24	22	19
8	55	43	35	30	51	40	33	29	35	29	26	30	26	23	25	22	20	17
9	51	39	32	27	47	37	30	26	32	27	23	28	23	20	23	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11926	11926	11926	11926
5°	13834	11962	10573	11962
10°	16365	11910	9437	11910
15°	18904	11800	8109	11800
20°	21047	11649	7332	11649
25°	21727	11500	6807	11500
30°	19020	11320	6492	11320
35°	14807	11052	6300	11052
40°	11102	10745	6198	10745
45°	8766	10255	6142	10255
50°	7401	9688	5966	9688
55°	6450	9064	5645	9064
60°	5804	8418	4997	8418
65°	5117	7721	4298	7721
70°	4607	6996	3878	6996
75°	3862	6201	3306	6201
80°	3268	5286	3096	5286
85°	2760	4131	2760	4131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	1.9
10°-20°	431.8	5.8
20°-30°	675.3	9.1
30°-40°	750.8	10.1
40°-50°	666.1	9.0
50°-60°	519.0	7.0
60°-70°	339.8	4.6
70°-80°	167.1	2.2
80°-90°	44.0	0.6
90°-100°	367.8	4.9
100°-110°	765.5	10.3
110°-120°	685.7	9.2
120°-130°	576.8	7.8
130°-140°	480.9	6.5
140°-150°	367.4	4.9
150°-160°	258.2	3.5
160°-170°	151.9	2.0
170°-180°	49.4	0.7
0°-30°	1250.3	16.8
0°-40°	2001.0	26.9
0°-60°	3186.1	42.8
0°-90°	3737.1	50.2
90°-120°	1819.0	24.4
90°-150°	3244.1	43.6
90°-180°	3704.0	49.8
0°-180°	7440.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1477	1477	1477	1477	1477	
5°	1707	1476	1305	1476	1707	173
15°	2262	1412	970	1412	2262	643
25°	2439	1291	764	1291	2439	1082
35°	1502	1121	639	1121	1502	942
45°	768	898	538	898	768	608
55°	458	644	401	644	458	417
65°	268	404	225	404	268	269
75°	124	199	106	199	124	136
85°	30	45	30	45	30	34
90°	21	1	21	1	21	18
95°	244	33	244	33	244	379
105°	1408	117	1408	117	1408	1392
115°	1352	206	1352	206	1352	1342
125°	1078	287	1078	287	1078	980
135°	964	341	964	341	964	744
145°	787	393	787	393	787	499
155°	659	447	659	447	659	308
165°	575	487	575	487	575	165
175°	518	508	518	508	518	50
180°	509	509	509	509	509	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1558.2	1562.5	1558.2	1557.8	1553.1	1551.6	1549.7	1543.5	1532.1	1525.4	1526.8
5°	1707.1	1721.9	1713.6	1712.4	1699.4	1686.3	1677.9	1658.9	1638.7	1625.0	1613.6
7.5°	1879.2	1887.7	1882.6	1874.2	1853.0	1841.0	1821.7	1796.6	1760.3	1732.5	1707.2
10°	1996.3	2003.5	2001.1	1985.6	1970.1	1938.6	1920.7	1885.7	1839.8	1803.5	1769.5
12.5°	2111.6	2119.2	2098.3	2098.9	2069.7	2044.8	2016.5	1972.3	1919.3	1872.5	1830.1
15°	2261.8	2252.3	2252.3	2240.4	2207.6	2173.2	2144.0	2097.6	2030.8	1974.9	1916.0
17.5°	2379.5	2382.7	2377.9	2349.8	2324.1	2288.4	2234.9	2180.7	2118.8	2043.8	1983.5
20°	2449.9	2449.9	2444.6	2425.5	2392.2	2354.1	2296.4	2237.4	2158.9	2083.3	2015.4
22.5°	2478.5	2480.4	2474.1	2458.3	2428.4	2391.2	2342.0	2282.2	2201.2	2116.1	2032.0
25°	2439.2	2450.5	2451.7	2447.5	2438.6	2416.0	2373.7	2312.4	2239.8	2147.5	2057.0
27.5°	2239.5	2253.8	2266.2	2286.8	2314.2	2328.5	2330.4	2299.2	2235.8	2147.1	2056.0
30°	2040.4	2052.3	2091.0	2141.6	2180.8	2216.6	2247.6	2255.8	2220.2	2140.4	2044.5
32.5°	1819.5	1835.7	1874.3	1928.7	1994.2	2054.7	2124.2	2159.6	2158.7	2110.8	2022.1
35°	1502.4	1514.2	1550.0	1607.1	1685.7	1775.6	1885.7	1971.3	2029.6	2025.5	1971.3
37.5°	1211.6	1225.0	1261.1	1308.5	1384.7	1496.0	1602.6	1720.6	1828.5	1889.1	1871.0
40°	1053.5	1054.1	1089.3	1138.1	1209.4	1306.5	1422.5	1553.5	1673.7	1771.9	1791.0
42.5°	928.8	928.8	952.1	1004.7	1056.2	1147.5	1258.3	1388.3	1529.0	1642.4	1692.9
45°	767.8	773.2	792.2	823.8	864.3	941.6	1030.3	1151.2	1308.9	1443.4	1527.3
47.5°	650.2	658.1	670.2	695.9	728.1	779.7	853.1	961.7	1089.9	1237.9	1357.4
50°	589.3	590.5	605.9	620.2	648.2	689.2	753.5	844.0	961.8	1104.1	1236.8
52.5°	536.9	536.7	546.0	564.0	586.8	618.8	670.7	753.0	857.6	985.1	1122.1
55°	458.3	461.3	468.5	482.7	500.0	522.6	563.7	625.6	707.7	816.7	941.1
57.5°	398.6	400.1	405.7	411.7	427.6	444.0	474.8	517.8	587.1	676.3	792.2
60°	359.5	360.1	361.9	370.8	383.3	398.8	419.7	455.9	514.3	595.8	687.5
62.5°	321.4	322.4	325.2	331.7	341.4	352.1	373.9	403.1	451.4	521.1	603.6
65°	267.9	268.5	272.6	275.0	282.8	292.2	308.3	328.0	361.3	419.7	482.2
67.5°	223.8	223.8	224.0	227.2	232.6	238.9	248.6	264.2	289.4	325.2	380.3
70°	195.2	195.2	196.4	198.2	201.2	206.6	211.9	223.8	242.3	271.4	313.7
72.5°	168.6	169.0	170.2	170.6	172.1	176.5	180.5	188.1	201.8	223.8	258.0
75°	123.8	125.6	128.5	131.0	133.9	133.4	137.5	142.2	146.5	159.5	179.2
77.5°	92.1	91.2	91.5	93.6	93.9	94.5	97.5	101.2	104.3	110.5	117.5
80°	70.3	70.3	72.0	72.6	72.0	72.6	75.6	77.4	78.6	80.9	87.5
82.5°	53.1	54.1	53.5	54.1	54.4	55.0	57.5	57.9	59.1	60.0	62.8
85°	29.8	30.4	30.9	29.8	29.8	29.8	30.9	31.5	32.7	32.1	33.3
87.5°	14.6	14.2	14.9	14.6	15.0	14.5	14.7	15.5	14.4	15.1	14.6
90°	21.0	21.0	22.0	21.0	20.0	20.0	19.0	18.0	17.0	18.0	16.0
92.5°	77.1	77.1	80.4	85.8	97.6	117.7	147.8	196.5	264.3	317.4	277.8
95°	244.1	257.1	275.2	306.2	355.2	452.2	586.3	741.3	838.4	815.4	615.3
97.5°	652.6	673.3	703.4	763.5	835.4	939.9	1037.7	1095.4	1053.3	858.8	575.8
100°	917.5	925.5	955.5	1016.5	1103.5	1177.6	1226.6	1206.6	1060.5	804.3	522.3
102.5°	1148.0	1154.3	1185.9	1230.2	1283.6	1314.4	1300.2	1201.0	1000.5	736.3	486.2
105°	1407.6	1413.7	1427.7	1435.7	1433.7	1392.7	1293.7	1120.5	891.4	656.3	455.2
107.5°	1504.2	1501.5	1491.5	1468.7	1419.3	1330.1	1190.6	1006.3	803.4	611.5	449.6
110°	1505.7	1496.8	1478.7	1436.7	1365.6	1255.6	1110.5	937.5	759.4	596.3	451.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1458.5	1443.9	1418.7	1367.9	1287.2	1177.2	1040.1	887.0	734.5	589.1	456.0
115°	1351.7	1343.7	1311.6	1251.6	1172.6	1076.5	959.5	836.4	711.4	585.3	465.2
117.5°	1243.4	1237.2	1204.8	1154.3	1086.9	1005.5	913.4	811.6	700.9	584.3	475.0
120°	1182.6	1171.6	1145.6	1101.6	1044.5	973.4	893.5	800.4	695.3	584.3	482.2
122.5°	1134.5	1123.5	1101.6	1063.9	1015.7	953.5	880.6	790.7	689.0	583.5	489.5
125°	1078.5	1072.5	1053.5	1024.5	984.5	929.4	860.4	774.4	678.3	582.3	500.2
127.5°	1045.7	1039.7	1023.7	997.9	957.7	905.4	836.6	754.3	664.1	580.1	508.9
130°	1026.5	1020.5	1004.4	979.5	938.5	885.5	817.4	738.4	655.3	579.3	515.2
132.5°	1004.9	998.8	983.7	955.5	915.2	862.2	795.8	721.5	647.3	578.5	520.8
135°	964.5	958.5	942.5	914.5	874.4	824.4	763.4	698.4	635.3	577.3	529.3
137.5°	914.5	907.2	894.1	866.4	829.0	783.8	732.4	677.3	624.9	577.0	534.3
140°	878.4	870.4	856.4	834.4	799.4	757.3	712.3	665.3	619.3	576.3	538.3
142.5°	840.0	834.4	822.0	801.6	770.6	734.2	695.5	654.1	614.5	576.3	541.5
145°	787.4	782.4	772.4	755.4	730.4	702.3	672.4	638.3	606.3	574.3	543.3
147.5°	740.7	739.0	731.3	716.8	698.4	676.3	652.3	625.3	598.9	570.7	544.2
150°	714.4	713.3	707.3	694.3	678.3	660.3	640.3	617.3	593.3	568.3	544.2
152.5°	690.3	689.3	685.7	675.1	661.5	646.7	628.3	608.5	586.9	564.3	542.7
155°	659.4	659.4	656.3	648.3	638.3	626.3	611.3	595.3	577.3	558.3	540.3
157.5°	632.1	632.1	630.3	624.3	616.7	607.1	594.5	581.1	567.5	552.1	537.7
160°	615.3	615.3	614.3	608.3	602.3	594.3	583.2	572.3	560.3	547.3	535.3
162.5°	599.3	600.1	599.1	593.1	588.7	581.5	572.9	563.4	553.9	542.4	532.9
165°	575.3	576.3	577.3	573.3	569.3	564.3	557.2	551.3	543.3	535.3	528.2
167.5°	556.3	557.1	557.2	554.7	552.7	549.7	544.1	539.5	533.6	528.1	523.5
170°	544.2	544.2	545.3	544.2	542.3	539.2	535.3	532.3	527.3	523.2	520.2
172.5°	532.3	533.8	534.9	533.8	532.6	530.5	528.1	525.8	521.7	518.4	517.0
175°	518.2	520.2	522.3	520.2	520.2	520.2	518.2	517.3	515.2	513.2	513.2
177.5°	510.1	511.6	513.2	512.5	513.2	512.5	512.5	511.6	510.8	510.1	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1522.1	1515.4	1512.1	1504.4	1495.4	1490.6	1486.3	1480.1	1472.1	1463.5	1457.3
5°	1599.3	1585.0	1567.2	1545.8	1526.7	1508.3	1492.2	1476.1	1457.7	1438.6	1419.6
7.5°	1678.6	1650.5	1620.1	1585.0	1550.9	1519.8	1491.3	1463.9	1432.9	1405.2	1379.9
10°	1733.9	1695.7	1653.5	1608.9	1564.2	1525.5	1487.5	1452.9	1414.8	1380.9	1352.3
12.5°	1778.7	1733.9	1683.0	1627.5	1573.7	1527.0	1483.2	1438.1	1394.8	1358.1	1319.9
15°	1852.9	1791.6	1723.1	1656.5	1586.8	1523.1	1464.2	1411.9	1362.4	1310.7	1274.4
17.5°	1903.9	1831.3	1748.0	1667.9	1585.6	1510.5	1442.5	1380.2	1323.2	1270.3	1227.1
20°	1934.4	1854.1	1761.9	1670.8	1578.5	1498.1	1425.0	1355.9	1297.0	1239.8	1195.2
22.5°	1951.5	1862.7	1761.9	1666.5	1570.9	1483.8	1403.5	1331.6	1267.5	1210.3	1160.9
25°	1957.1	1861.8	1758.9	1649.3	1544.5	1452.3	1369.0	1291.0	1219.6	1162.4	1110.1
27.5°	1949.5	1837.3	1731.8	1619.5	1511.4	1414.1	1326.6	1244.7	1173.2	1111.9	1058.2
30°	1938.0	1817.7	1704.7	1588.0	1478.5	1385.1	1292.8	1214.3	1139.8	1076.2	1022.0
32.5°	1913.2	1794.0	1672.3	1552.8	1441.8	1345.6	1258.0	1179.0	1106.0	1040.9	983.4
35°	1864.2	1743.4	1611.3	1488.7	1379.7	1279.7	1197.6	1121.4	1051.7	982.1	921.4
37.5°	1799.6	1676.1	1544.7	1410.4	1301.4	1206.9	1131.6	1060.1	992.1	928.5	861.3
40°	1738.6	1626.1	1490.4	1357.1	1245.2	1154.1	1084.5	1019.6	951.1	888.0	820.8
42.5°	1664.8	1569.0	1431.8	1298.0	1187.6	1099.8	1034.9	971.5	909.2	848.1	777.9
45°	1541.6	1469.0	1340.4	1211.9	1100.5	1013.7	954.2	898.2	843.4	785.1	719.0
47.5°	1400.4	1351.3	1240.3	1108.6	1005.6	927.5	870.0	824.2	777.9	719.6	661.7
50°	1302.3	1270.7	1163.6	1043.4	945.2	873.1	814.2	771.4	732.7	676.7	625.0
52.5°	1197.6	1180.8	1090.3	975.3	880.5	809.9	759.5	720.9	681.7	635.3	586.9
55°	1038.0	1047.0	970.2	870.8	781.5	722.0	676.1	644.0	610.7	571.4	533.9
57.5°	874.9	907.6	856.0	768.8	685.1	630.1	595.6	568.5	540.5	508.0	476.0
60°	777.3	804.7	775.6	698.8	625.6	574.4	542.3	521.4	493.4	463.6	439.3
62.5°	682.1	711.4	694.1	632.1	564.1	520.1	491.8	472.3	451.5	425.6	400.2
65°	562.5	581.5	573.2	530.4	482.2	444.6	418.4	404.2	385.1	366.1	343.5
67.5°	430.8	467.6	462.7	440.0	398.3	369.0	351.9	339.2	321.9	307.7	292.4
70°	354.1	388.1	387.4	369.0	346.4	319.0	307.1	296.4	280.9	267.3	254.8
72.5°	289.9	321.0	325.5	311.4	295.9	275.3	263.8	256.4	241.4	232.0	221.9
75°	202.9	225.6	231.5	231.5	224.4	213.7	203.5	198.8	188.1	179.8	173.8
77.5°	133.1	147.4	156.7	158.8	159.9	156.3	148.0	144.6	136.4	133.5	127.8
80°	94.0	103.6	114.3	117.9	120.8	119.7	116.1	113.7	106.0	103.0	100.6
82.5°	65.0	70.3	79.0	86.9	86.1	89.2	86.1	84.2	78.4	77.2	74.9
85°	33.9	34.5	35.7	41.1	44.1	45.2	45.8	44.6	42.9	42.9	38.7
87.5°	14.2	13.8	13.5	13.5	13.8	15.5	16.3	16.4	15.3	14.6	13.3
90°	14.0	14.0	8.0	8.0	7.0	6.0	3.0	1.0	3.0	6.0	7.0
92.5°	202.1	124.5	73.6	52.9	38.2	26.0	16.6	11.4	16.6	26.0	38.2
95°	376.2	212.1	125.1	83.0	59.1	46.1	36.0	33.0	36.0	46.1	59.1
97.5°	338.2	202.7	135.7	100.5	79.8	67.8	59.2	59.2	59.2	67.8	79.8
100°	318.1	205.1	146.1	114.1	95.1	83.0	76.0	76.0	76.0	83.0	95.1
102.5°	312.5	213.1	159.7	129.2	111.1	99.9	93.7	92.0	93.7	99.9	111.1
105°	315.1	232.1	184.1	155.1	137.1	125.1	120.0	117.1	120.0	125.1	137.1
107.5°	329.9	254.3	210.3	181.7	164.5	151.7	146.6	144.6	146.6	151.7	164.5
110°	341.1	271.1	227.1	200.1	182.1	170.0	165.1	163.1	165.1	170.0	182.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	353.2	287.1	244.7	217.7	199.7	188.5	182.7	180.7	182.7	188.5	199.7
115°	372.2	312.1	272.2	245.1	226.1	216.1	209.1	206.1	209.1	216.1	226.1
117.5°	391.6	336.4	298.3	270.4	252.5	241.5	235.3	232.5	235.3	241.5	252.5
120°	405.2	353.2	315.1	287.1	270.1	259.2	252.1	250.1	252.1	259.2	270.1
122.5°	418.0	369.2	331.1	303.9	285.3	275.2	268.1	266.1	268.1	275.2	285.3
125°	437.2	391.2	355.2	327.2	308.2	297.1	291.1	287.1	291.1	297.1	308.2
127.5°	453.8	411.6	376.8	348.5	328.7	316.2	308.9	305.7	308.9	316.2	328.7
130°	464.3	425.2	391.2	362.1	343.2	328.1	320.1	316.2	320.1	328.1	343.2
132.5°	474.7	436.4	402.4	375.0	354.4	340.2	329.8	326.6	329.8	340.2	354.4
135°	488.3	452.2	419.2	393.2	372.2	355.2	345.2	341.1	345.2	355.2	372.2
137.5°	497.8	464.3	433.4	408.6	386.8	370.6	359.6	355.8	359.6	370.6	386.8
140°	504.2	472.3	442.2	418.2	397.2	380.2	369.2	366.2	369.2	380.2	397.2
142.5°	509.0	479.4	450.2	427.0	406.8	390.5	380.4	377.4	380.4	390.5	406.8
145°	514.3	487.2	461.2	439.2	420.2	406.2	396.2	393.2	396.2	406.2	420.2
147.5°	518.8	495.2	470.8	451.0	435.2	420.8	412.0	411.0	412.0	420.8	435.2
150°	521.2	499.2	477.3	458.2	443.2	431.2	423.2	422.2	423.2	431.2	443.2
152.5°	522.9	502.5	482.8	465.5	452.0	440.8	432.8	432.6	432.8	440.8	452.0
155°	524.3	507.2	490.3	475.3	464.3	454.2	448.2	447.2	448.2	454.2	464.3
157.5°	524.3	510.7	496.3	484.4	474.8	467.0	461.4	461.4	461.4	467.0	474.8
160°	524.3	512.2	500.2	489.2	481.2	474.2	470.2	470.2	470.2	474.2	481.2
162.5°	524.3	513.8	502.7	494.0	486.8	480.6	477.4	478.2	477.4	480.6	486.8
165°	522.3	514.3	505.2	499.2	494.2	489.2	487.2	487.2	487.2	489.2	494.2
167.5°	519.9	514.0	507.5	502.8	500.1	496.3	495.2	496.3	495.2	496.3	500.1
170°	518.2	513.2	508.2	505.2	503.3	500.2	499.2	500.2	499.2	500.2	503.3
172.5°	516.7	512.5	509.0	506.9	505.7	503.4	503.3	504.2	503.3	503.4	505.7
175°	514.3	511.3	509.3	509.3	508.2	507.2	507.2	508.2	507.2	507.2	508.2
177.5°	511.6	510.1	509.3	509.3	509.3	508.4	509.3	510.1	509.3	508.4	509.3
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P332981-935

CATALOG NUMBER: SA4XXRDIP-C1020D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1450.6	1445.9	1439.7	1432.5	1424.0	1416.3	1413.1	1415.9	1417.3	1413.5	1413.1
5°	1406.5	1391.6	1379.7	1361.8	1347.6	1335.7	1327.3	1323.8	1324.9	1315.4	1313.0
7.5°	1356.8	1339.2	1319.7	1298.5	1278.8	1261.3	1252.1	1247.1	1237.0	1232.7	1225.5
10°	1324.9	1301.1	1282.1	1257.1	1234.5	1213.7	1203.5	1195.2	1185.1	1180.3	1170.2
12.5°	1292.1	1264.5	1243.5	1217.5	1194.5	1169.3	1159.7	1144.3	1128.4	1118.4	1105.4
15°	1245.8	1212.5	1186.9	1155.9	1128.5	1099.9	1074.4	1045.8	1035.1	1012.4	999.4
17.5°	1191.6	1157.8	1126.1	1084.6	1042.3	1006.9	979.6	952.2	935.8	921.4	914.7
20°	1155.9	1125.0	1080.9	1032.7	985.7	946.4	924.4	906.5	888.6	878.6	871.4
22.5°	1122.1	1082.5	1031.4	979.4	932.4	901.6	883.0	864.6	850.1	840.4	831.0
25°	1065.4	1013.7	959.5	900.0	867.8	841.0	820.8	805.9	797.0	784.5	779.7
27.5°	1007.2	944.5	884.8	844.7	811.2	786.8	769.1	757.9	746.7	738.7	732.5
30°	962.4	898.8	845.2	807.1	773.2	752.9	738.7	725.6	716.6	710.1	705.3
32.5°	918.2	854.5	809.5	768.5	741.8	722.0	706.8	697.0	690.0	681.5	678.6
35°	854.1	797.5	758.3	721.4	694.1	676.1	664.3	654.1	648.2	645.8	644.0
37.5°	792.6	746.3	704.0	673.8	649.4	635.3	621.3	616.3	612.3	608.0	609.8
40°	753.5	710.1	672.6	640.4	620.8	605.4	597.0	591.1	587.5	587.5	587.5
42.5°	719.7	677.3	640.7	611.9	592.2	579.1	569.9	564.8	563.7	563.2	566.0
45°	667.3	627.9	591.1	567.2	550.6	537.4	532.1	528.0	528.0	530.4	530.9
47.5°	615.2	578.4	548.8	522.1	506.9	498.7	494.0	491.9	492.1	494.5	497.2
50°	583.3	547.0	517.8	494.0	479.7	472.0	467.9	466.7	467.9	467.9	472.0
52.5°	548.5	516.1	487.3	467.4	451.2	443.9	441.6	440.0	440.7	442.6	444.4
55°	497.6	468.5	441.1	422.0	410.1	405.4	400.0	400.5	399.4	400.5	400.5
57.5°	446.5	420.3	394.9	379.8	369.3	362.4	356.5	358.2	356.5	356.2	355.2
60°	413.7	385.1	364.9	351.2	339.2	333.3	328.0	329.2	327.4	326.1	323.8
62.5°	378.0	354.1	334.8	321.7	312.1	305.2	299.9	298.7	294.5	290.5	285.2
65°	326.1	306.5	289.3	276.8	267.9	262.5	258.3	254.8	245.8	236.3	231.5
67.5°	275.9	261.7	245.6	235.0	227.7	220.7	212.8	206.6	198.3	193.1	190.1
70°	243.4	229.7	216.0	206.0	198.2	191.7	182.7	178.6	172.6	170.2	167.3
72.5°	212.5	199.8	187.0	177.9	169.6	164.5	157.5	153.3	150.7	149.7	146.8
75°	165.5	155.3	145.9	137.5	131.0	127.3	124.4	121.4	120.2	114.9	111.9
77.5°	120.7	114.1	108.1	102.1	97.5	95.1	89.4	85.9	83.9	81.5	80.8
80°	94.0	89.3	83.3	79.7	73.2	70.9	68.4	67.8	67.2	66.6	66.0
82.5°	70.7	66.0	60.0	57.9	56.1	54.7	53.2	52.6	52.0	52.3	52.3
85°	35.7	33.3	33.3	32.7	32.1	31.5	30.9	30.9	30.4	30.9	30.4
87.5°	13.5	13.0	14.2	13.3	14.1	14.6	13.9	14.1	14.7	14.0	14.0
90°	8.0	8.0	14.0	14.0	16.0	18.0	17.0	18.0	19.0	20.0	20.0
92.5°	52.9	73.6	124.5	202.1	277.8	317.4	264.3	196.5	147.8	117.7	97.6
95°	83.0	125.1	212.1	376.2	615.3	815.4	838.4	741.3	586.3	452.2	355.2
97.5°	100.5	135.7	202.7	338.2	575.8	858.8	1053.3	1095.4	1037.7	939.9	835.4
100°	114.1	146.1	205.1	318.1	522.3	804.3	1060.5	1206.6	1226.6	1177.6	1103.5
102.5°	129.2	159.7	213.1	312.5	486.2	736.3	1000.5	1201.0	1300.2	1314.4	1283.6
105°	155.1	184.1	232.1	315.1	455.2	656.3	891.4	1120.5	1293.7	1392.7	1433.7
107.5°	181.7	210.3	254.3	329.9	449.6	611.5	803.4	1006.3	1190.6	1330.1	1419.3
110°	200.1	227.1	271.1	341.1	451.3	596.3	759.4	937.5	1110.5	1255.6	1365.6



TEST NUMBER: P332981-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.7	244.7	287.1	353.2	456.0	589.1	734.5	887.0	1040.1	1177.2	1287.2
115°	245.1	272.2	312.1	372.2	465.2	585.3	711.4	836.4	959.5	1076.5	1172.6
117.5°	270.4	298.3	336.4	391.6	475.0	584.3	700.9	811.6	913.4	1005.5	1086.9
120°	287.1	315.1	353.2	405.2	482.2	584.3	695.3	800.4	893.5	973.4	1044.5
122.5°	303.9	331.1	369.2	418.0	489.5	583.5	689.0	790.7	880.6	953.5	1015.7
125°	327.2	355.2	391.2	437.2	500.2	582.3	678.3	774.4	860.4	929.4	984.5
127.5°	348.5	376.8	411.6	453.8	508.9	580.1	664.1	754.3	836.6	905.4	957.7
130°	362.1	391.2	425.2	464.3	515.2	579.3	655.3	738.4	817.4	885.5	938.5
132.5°	375.0	402.4	436.4	474.7	520.8	578.5	647.3	721.5	795.8	862.2	915.2
135°	393.2	419.2	452.2	488.3	529.3	577.3	635.3	698.4	763.4	824.4	874.4
137.5°	408.6	433.4	464.3	497.8	534.3	577.0	624.9	677.3	732.4	783.8	829.0
140°	418.2	442.2	472.3	504.2	538.3	576.3	619.3	665.3	712.3	757.3	799.4
142.5°	427.0	450.2	479.4	509.0	541.5	576.3	614.5	654.1	695.5	734.2	770.6
145°	439.2	461.2	487.2	514.3	543.3	574.3	606.3	638.3	672.4	702.3	730.4
147.5°	451.0	470.8	495.2	518.8	544.2	570.7	598.9	625.3	652.3	676.3	698.4
150°	458.2	477.3	499.2	521.2	544.2	568.3	593.3	617.3	640.3	660.3	678.3
152.5°	465.5	482.8	502.5	522.9	542.7	564.3	586.9	608.5	628.3	646.7	661.5
155°	475.3	490.3	507.2	524.3	540.3	558.3	577.3	595.3	611.3	626.3	638.3
157.5°	484.4	496.3	510.7	524.3	537.7	552.1	567.5	581.1	594.5	607.1	616.7
160°	489.2	500.2	512.2	524.3	535.3	547.3	560.3	572.3	583.2	594.3	602.3
162.5°	494.0	502.7	513.8	524.3	532.9	542.4	553.9	563.4	572.9	581.5	588.7
165°	499.2	505.2	514.3	522.3	528.2	535.3	543.3	551.3	557.2	564.3	569.3
167.5°	502.8	507.5	514.0	519.9	523.5	528.1	533.6	539.5	544.1	549.7	552.7
170°	505.2	508.2	513.2	518.2	520.2	523.2	527.3	532.3	535.3	539.2	542.3
172.5°	506.9	509.0	512.5	516.7	517.0	518.4	521.7	525.8	528.1	530.5	532.6
175°	509.3	509.3	511.3	514.3	513.2	513.2	515.2	517.3	518.2	520.2	520.2
177.5°	509.3	509.3	510.1	511.6	510.1	510.1	510.8	511.6	512.5	512.5	513.2
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P332981-935

CATALOG NUMBER: SA4XXRDIP-C1020D1205U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1410.1	1411.1	1407.8	1406.9	1407.8	1411.1	1410.1	1413.1	1413.5	1417.3	1415.9
5°	1308.3	1307.1	1304.1	1304.7	1304.1	1307.1	1308.3	1313.0	1315.4	1324.9	1323.8
7.5°	1221.2	1216.5	1217.8	1213.1	1217.8	1216.5	1221.2	1225.5	1232.7	1237.0	1247.1
10°	1167.8	1161.2	1155.9	1151.2	1155.9	1161.2	1167.8	1170.2	1180.3	1185.1	1195.2
12.5°	1094.9	1089.3	1082.1	1083.6	1082.1	1089.3	1094.9	1105.4	1118.4	1128.4	1144.3
15°	991.6	982.7	968.5	970.2	968.5	982.7	991.6	999.4	1012.4	1035.1	1045.8
17.5°	904.1	904.2	897.7	899.2	897.7	904.2	904.1	914.7	921.4	935.8	952.2
20°	858.9	854.7	855.3	853.5	855.3	854.7	858.9	871.4	878.6	888.6	906.5
22.5°	827.5	822.3	818.2	814.5	818.2	822.3	827.5	831.0	840.4	850.1	864.6
25°	774.4	770.8	765.4	764.2	765.4	770.8	774.4	779.7	784.5	797.0	805.9
27.5°	727.7	727.0	724.9	722.1	724.9	727.0	727.7	732.5	738.7	746.7	757.9
30°	700.6	699.4	698.2	696.4	698.2	699.4	700.6	705.3	710.1	716.6	725.6
32.5°	676.3	675.5	674.3	674.5	674.3	675.5	676.3	678.6	681.5	690.0	697.0
35°	641.6	641.0	639.9	639.3	639.9	641.0	641.6	644.0	645.8	648.2	654.1
37.5°	609.2	610.8	610.1	609.9	610.1	610.8	609.2	609.8	608.0	612.3	616.3
40°	586.9	587.5	588.7	588.1	588.7	587.5	586.9	587.5	587.5	587.5	591.1
42.5°	568.3	568.4	570.1	568.1	570.1	568.4	568.3	566.0	563.2	563.7	564.8
45°	535.1	538.6	538.0	538.0	538.0	538.6	535.1	530.9	530.4	528.0	528.0
47.5°	498.8	501.9	502.7	502.6	502.7	501.9	498.8	497.2	494.5	492.1	491.9
50°	475.0	473.8	475.6	475.0	475.6	473.8	475.0	472.0	467.9	467.9	466.7
52.5°	445.9	446.2	446.1	445.5	446.1	446.2	445.9	444.4	442.6	440.7	440.0
55°	401.1	401.7	400.5	401.1	400.5	401.7	401.1	400.5	400.5	399.4	400.5
57.5°	352.6	349.7	350.9	349.5	350.9	349.7	352.6	355.2	356.2	356.5	358.2
60°	317.9	313.1	311.9	309.5	311.9	313.1	317.9	323.8	326.1	327.4	329.2
62.5°	278.8	275.4	271.4	273.3	271.4	275.4	278.8	285.2	290.5	294.5	298.7
65°	226.8	224.4	222.6	225.0	222.6	224.4	226.8	231.5	236.3	245.8	254.8
67.5°	187.7	186.4	186.4	185.2	186.4	186.4	187.7	190.1	193.1	198.3	206.6
70°	167.3	165.5	165.5	164.3	165.5	165.5	167.3	167.3	170.2	172.6	178.6
72.5°	146.3	144.5	145.0	144.3	145.0	144.5	146.3	146.8	149.7	150.7	153.3
75°	108.3	105.4	105.4	106.0	105.4	105.4	108.3	111.9	114.9	120.2	121.4
77.5°	80.8	80.2	81.1	80.0	81.1	80.2	80.8	80.8	81.5	83.9	85.9
80°	66.0	65.4	64.9	66.6	64.9	65.4	66.0	66.0	66.6	67.2	67.8
82.5°	51.3	51.2	51.1	53.3	51.1	51.2	51.3	52.3	52.3	52.0	52.6
85°	30.9	29.8	30.9	29.8	30.9	29.8	30.9	30.4	30.9	30.4	30.9
87.5°	15.2	14.9	14.2	14.6	14.2	14.9	15.2	14.0	14.0	14.7	14.1
90°	21.0	22.0	21.0	21.0	21.0	22.0	21.0	20.0	20.0	19.0	18.0
92.5°	85.8	80.4	77.1	77.1	77.1	80.4	85.8	97.6	117.7	147.8	196.5
95°	306.2	275.2	257.1	244.1	257.1	275.2	306.2	355.2	452.2	586.3	741.3
97.5°	763.5	703.4	673.3	652.6	673.3	703.4	763.5	835.4	939.9	1037.7	1095.4
100°	1016.5	955.5	925.5	917.5	925.5	955.5	1016.5	1103.5	1177.6	1226.6	1206.6
102.5°	1230.2	1185.9	1154.3	1148.0	1154.3	1185.9	1230.2	1283.6	1314.4	1300.2	1201.0
105°	1435.7	1427.7	1413.7	1407.6	1413.7	1427.7	1435.7	1433.7	1392.7	1293.7	1120.5
107.5°	1468.7	1491.5	1501.5	1504.2	1501.5	1491.5	1468.7	1419.3	1330.1	1190.6	1006.3
110°	1436.7	1478.7	1496.8	1505.7	1496.8	1478.7	1436.7	1365.6	1255.6	1110.5	937.5



TEST NUMBER: P332981-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1367.9	1418.7	1443.9	1458.5	1443.9	1418.7	1367.9	1287.2	1177.2	1040.1	887.0
115°	1251.6	1311.6	1343.7	1351.7	1343.7	1311.6	1251.6	1172.6	1076.5	959.5	836.4
117.5°	1154.3	1204.8	1237.2	1243.4	1237.2	1204.8	1154.3	1086.9	1005.5	913.4	811.6
120°	1101.6	1145.6	1171.6	1182.6	1171.6	1145.6	1101.6	1044.5	973.4	893.5	800.4
122.5°	1063.9	1101.6	1123.5	1134.5	1123.5	1101.6	1063.9	1015.7	953.5	880.6	790.7
125°	1024.5	1053.5	1072.5	1078.5	1072.5	1053.5	1024.5	984.5	929.4	860.4	774.4
127.5°	997.9	1023.7	1039.7	1045.7	1039.7	1023.7	997.9	957.7	905.4	836.6	754.3
130°	979.5	1004.4	1020.5	1026.5	1020.5	1004.4	979.5	938.5	885.5	817.4	738.4
132.5°	955.5	983.7	998.8	1004.9	998.8	983.7	955.5	915.2	862.2	795.8	721.5
135°	914.5	942.5	958.5	964.5	958.5	942.5	914.5	874.4	824.4	763.4	698.4
137.5°	866.4	894.1	907.2	914.5	907.2	894.1	866.4	829.0	783.8	732.4	677.3
140°	834.4	856.4	870.4	878.4	870.4	856.4	834.4	799.4	757.3	712.3	665.3
142.5°	801.6	822.0	834.4	840.0	834.4	822.0	801.6	770.6	734.2	695.5	654.1
145°	755.4	772.4	782.4	787.4	782.4	772.4	755.4	730.4	702.3	672.4	638.3
147.5°	716.8	731.3	739.0	740.7	739.0	731.3	716.8	698.4	676.3	652.3	625.3
150°	694.3	707.3	713.3	714.4	713.3	707.3	694.3	678.3	660.3	640.3	617.3
152.5°	675.1	685.7	689.3	690.3	689.3	685.7	675.1	661.5	646.7	628.3	608.5
155°	648.3	656.3	659.4	659.4	659.4	656.3	648.3	638.3	626.3	611.3	595.3
157.5°	624.3	630.3	632.1	632.1	632.1	630.3	624.3	616.7	607.1	594.5	581.1
160°	608.3	614.3	615.3	615.3	615.3	614.3	608.3	602.3	594.3	583.2	572.3
162.5°	593.1	599.1	600.1	599.3	600.1	599.1	593.1	588.7	581.5	572.9	563.4
165°	573.3	577.3	576.3	575.3	576.3	577.3	573.3	569.3	564.3	557.2	551.3
167.5°	554.7	557.2	557.1	556.3	557.1	557.2	554.7	552.7	549.7	544.1	539.5
170°	544.2	545.3	544.2	544.2	544.2	545.3	544.2	542.3	539.2	535.3	532.3
172.5°	533.8	534.9	533.8	532.3	533.8	534.9	533.8	532.6	530.5	528.1	525.8
175°	520.2	522.3	520.2	518.2	520.2	522.3	520.2	520.2	520.2	518.2	517.3
177.5°	512.5	513.2	511.6	510.1	511.6	513.2	512.5	513.2	512.5	512.5	511.6
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1413.1	1416.3	1424.0	1432.5	1439.7	1445.9	1450.6	1457.3	1463.5	1472.1	1480.1
5°	1327.3	1335.7	1347.6	1361.8	1379.7	1391.6	1406.5	1419.6	1438.6	1457.7	1476.1
7.5°	1252.1	1261.3	1278.8	1298.5	1319.7	1339.2	1356.8	1379.9	1405.2	1432.9	1463.9
10°	1203.5	1213.7	1234.5	1257.1	1282.1	1301.1	1324.9	1352.3	1380.9	1414.8	1452.9
12.5°	1159.7	1169.3	1194.5	1217.5	1243.5	1264.5	1292.1	1319.9	1358.1	1394.8	1438.1
15°	1074.4	1099.9	1128.5	1155.9	1186.9	1212.5	1245.8	1274.4	1310.7	1362.4	1411.9
17.5°	979.6	1006.9	1042.3	1084.6	1126.1	1157.8	1191.6	1227.1	1270.3	1323.2	1380.2
20°	924.4	946.4	985.7	1032.7	1080.9	1125.0	1155.9	1195.2	1239.8	1297.0	1355.9
22.5°	883.0	901.6	932.4	979.4	1031.4	1082.5	1122.1	1160.9	1210.3	1267.5	1331.6
25°	820.8	841.0	867.8	900.0	959.5	1013.7	1065.4	1110.1	1162.4	1219.6	1291.0
27.5°	769.1	786.8	811.2	844.7	884.8	944.5	1007.2	1058.2	1111.9	1173.2	1244.7
30°	738.7	752.9	773.2	807.1	845.2	898.8	962.4	1022.0	1076.2	1139.8	1214.3
32.5°	706.8	722.0	741.8	768.5	809.5	854.5	918.2	983.4	1040.9	1106.0	1179.0
35°	664.3	676.1	694.1	721.4	758.3	797.5	854.1	921.4	982.1	1051.7	1121.4
37.5°	621.3	635.3	649.4	673.8	704.0	746.3	792.6	861.3	928.5	992.1	1060.1
40°	597.0	605.4	620.8	640.4	672.6	710.1	753.5	820.8	888.0	951.1	1019.6
42.5°	569.9	579.1	592.2	611.9	640.7	677.3	719.7	777.9	848.1	909.2	971.5
45°	532.1	537.4	550.6	567.2	591.1	627.9	667.3	719.0	785.1	843.4	898.2
47.5°	494.0	498.7	506.9	522.1	548.8	578.4	615.2	661.7	719.6	777.9	824.2
50°	467.9	472.0	479.7	494.0	517.8	547.0	583.3	625.0	676.7	732.7	771.4
52.5°	441.6	443.9	451.2	467.4	487.3	516.1	548.5	586.9	635.3	681.7	720.9
55°	400.0	405.4	410.1	422.0	441.1	468.5	497.6	533.9	571.4	610.7	644.0
57.5°	356.5	362.4	369.3	379.8	394.9	420.3	446.5	476.0	508.0	540.5	568.5
60°	328.0	333.3	339.2	351.2	364.9	385.1	413.7	439.3	463.6	493.4	521.4
62.5°	299.9	305.2	312.1	321.7	334.8	354.1	378.0	400.2	425.6	451.5	472.3
65°	258.3	262.5	267.9	276.8	289.3	306.5	326.1	343.5	366.1	385.1	404.2
67.5°	212.8	220.7	227.7	235.0	245.6	261.7	275.9	292.4	307.7	321.9	339.2
70°	182.7	191.7	198.2	206.0	216.0	229.7	243.4	254.8	267.3	280.9	296.4
72.5°	157.5	164.5	169.6	177.9	187.0	199.8	212.5	221.9	232.0	241.4	256.4
75°	124.4	127.3	131.0	137.5	145.9	155.3	165.5	173.8	179.8	188.1	198.8
77.5°	89.4	95.1	97.5	102.1	108.1	114.1	120.7	127.8	133.5	136.4	144.6
80°	68.4	70.9	73.2	79.7	83.3	89.3	94.0	100.6	103.0	106.0	113.7
82.5°	53.2	54.7	56.1	57.9	60.0	66.0	70.7	74.9	77.2	78.4	84.2
85°	30.9	31.5	32.1	32.7	33.3	33.3	35.7	38.7	42.9	42.9	44.6
87.5°	13.9	14.6	14.1	13.3	14.2	13.0	13.5	13.3	14.6	15.3	16.4
90°	17.0	18.0	16.0	14.0	14.0	8.0	8.0	7.0	6.0	3.0	1.0
92.5°	264.3	317.4	277.8	202.1	124.5	73.6	52.9	38.2	26.0	16.6	11.4
95°	838.4	815.4	615.3	376.2	212.1	125.1	83.0	59.1	46.1	36.0	33.0
97.5°	1053.3	858.8	575.8	338.2	202.7	135.7	100.5	79.8	67.8	59.2	59.2
100°	1060.5	804.3	522.3	318.1	205.1	146.1	114.1	95.1	83.0	76.0	76.0
102.5°	1000.5	736.3	486.2	312.5	213.1	159.7	129.2	111.1	99.9	93.7	92.0
105°	891.4	656.3	455.2	315.1	232.1	184.1	155.1	137.1	125.1	120.0	117.1
107.5°	803.4	611.5	449.6	329.9	254.3	210.3	181.7	164.5	151.7	146.6	144.6
110°	759.4	596.3	451.3	341.1	271.1	227.1	200.1	182.1	170.0	165.1	163.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	734.5	589.1	456.0	353.2	287.1	244.7	217.7	199.7	188.5	182.7	180.7
115°	711.4	585.3	465.2	372.2	312.1	272.2	245.1	226.1	216.1	209.1	206.1
117.5°	700.9	584.3	475.0	391.6	336.4	298.3	270.4	252.5	241.5	235.3	232.5
120°	695.3	584.3	482.2	405.2	353.2	315.1	287.1	270.1	259.2	252.1	250.1
122.5°	689.0	583.5	489.5	418.0	369.2	331.1	303.9	285.3	275.2	268.1	266.1
125°	678.3	582.3	500.2	437.2	391.2	355.2	327.2	308.2	297.1	291.1	287.1
127.5°	664.1	580.1	508.9	453.8	411.6	376.8	348.5	328.7	316.2	308.9	305.7
130°	655.3	579.3	515.2	464.3	425.2	391.2	362.1	343.2	328.1	320.1	316.2
132.5°	647.3	578.5	520.8	474.7	436.4	402.4	375.0	354.4	340.2	329.8	326.6
135°	635.3	577.3	529.3	488.3	452.2	419.2	393.2	372.2	355.2	345.2	341.1
137.5°	624.9	577.0	534.3	497.8	464.3	433.4	408.6	386.8	370.6	359.6	355.8
140°	619.3	576.3	538.3	504.2	472.3	442.2	418.2	397.2	380.2	369.2	366.2
142.5°	614.5	576.3	541.5	509.0	479.4	450.2	427.0	406.8	390.5	380.4	377.4
145°	606.3	574.3	543.3	514.3	487.2	461.2	439.2	420.2	406.2	396.2	393.2
147.5°	598.9	570.7	544.2	518.8	495.2	470.8	451.0	435.2	420.8	412.0	411.0
150°	593.3	568.3	544.2	521.2	499.2	477.3	458.2	443.2	431.2	423.2	422.2
152.5°	586.9	564.3	542.7	522.9	502.5	482.8	465.5	452.0	440.8	432.8	432.6
155°	577.3	558.3	540.3	524.3	507.2	490.3	475.3	464.3	454.2	448.2	447.2
157.5°	567.5	552.1	537.7	524.3	510.7	496.3	484.4	474.8	467.0	461.4	461.4
160°	560.3	547.3	535.3	524.3	512.2	500.2	489.2	481.2	474.2	470.2	470.2
162.5°	553.9	542.4	532.9	524.3	513.8	502.7	494.0	486.8	480.6	477.4	478.2
165°	543.3	535.3	528.2	522.3	514.3	505.2	499.2	494.2	489.2	487.2	487.2
167.5°	533.6	528.1	523.5	519.9	514.0	507.5	502.8	500.1	496.3	495.2	496.3
170°	527.3	523.2	520.2	518.2	513.2	508.2	505.2	503.3	500.2	499.2	500.2
172.5°	521.7	518.4	517.0	516.7	512.5	509.0	506.9	505.7	503.4	503.3	504.2
175°	515.2	513.2	513.2	514.3	511.3	509.3	509.3	508.2	507.2	507.2	508.2
177.5°	510.8	510.1	510.1	511.6	510.1	509.3	509.3	509.3	508.4	509.3	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



TEST NUMBER: P332981-935
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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1486.3	1490.6	1495.4	1504.4	1512.1	1515.4	1522.1	1526.8	1525.4	1532.1	1543.5
5°	1492.2	1508.3	1526.7	1545.8	1567.2	1585.0	1599.3	1613.6	1625.0	1638.7	1658.9
7.5°	1491.3	1519.8	1550.9	1585.0	1620.1	1650.5	1678.6	1707.2	1732.5	1760.3	1796.6
10°	1487.5	1525.5	1564.2	1608.9	1653.5	1695.7	1733.9	1769.5	1803.5	1839.8	1885.7
12.5°	1483.2	1527.0	1573.7	1627.5	1683.0	1733.9	1778.7	1830.1	1872.5	1919.3	1972.3
15°	1464.2	1523.1	1586.8	1656.5	1723.1	1791.6	1852.9	1916.0	1974.9	2030.8	2097.6
17.5°	1442.5	1510.5	1585.6	1667.9	1748.0	1831.3	1903.9	1983.5	2043.8	2118.8	2180.7
20°	1425.0	1498.1	1578.5	1670.8	1761.9	1854.1	1934.4	2015.4	2083.3	2158.9	2237.4
22.5°	1403.5	1483.8	1570.9	1666.5	1761.9	1862.7	1951.5	2032.0	2116.1	2201.2	2282.2
25°	1369.0	1452.3	1544.5	1649.3	1758.9	1861.8	1957.1	2057.0	2147.5	2239.8	2312.4
27.5°	1326.6	1414.1	1511.4	1619.5	1731.8	1837.3	1949.5	2056.0	2147.1	2235.8	2299.2
30°	1292.8	1385.1	1478.5	1588.0	1704.7	1817.7	1938.0	2044.5	2140.4	2220.2	2255.8
32.5°	1258.0	1345.6	1441.8	1552.8	1672.3	1794.0	1913.2	2022.1	2110.8	2158.7	2159.6
35°	1197.6	1279.7	1379.7	1488.7	1611.3	1743.4	1864.2	1971.3	2025.5	2029.6	1971.3
37.5°	1131.6	1206.9	1301.4	1410.4	1544.7	1676.1	1799.6	1871.0	1889.1	1828.5	1720.6
40°	1084.5	1154.1	1245.2	1357.1	1490.4	1626.1	1738.6	1791.0	1771.9	1673.7	1553.5
42.5°	1034.9	1099.8	1187.6	1298.0	1431.8	1569.0	1664.8	1692.9	1642.4	1529.0	1388.3
45°	954.2	1013.7	1100.5	1211.9	1340.4	1469.0	1541.6	1527.3	1443.4	1308.9	1151.2
47.5°	870.0	927.5	1005.6	1108.6	1240.3	1351.3	1400.4	1357.4	1237.9	1089.9	961.7
50°	814.2	873.1	945.2	1043.4	1163.6	1270.7	1302.3	1236.8	1104.1	961.8	844.0
52.5°	759.5	809.9	880.5	975.3	1090.3	1180.8	1197.6	1122.1	985.1	857.6	753.0
55°	676.1	722.0	781.5	870.8	970.2	1047.0	1038.0	941.1	816.7	707.7	625.6
57.5°	595.6	630.1	685.1	768.8	856.0	907.6	874.9	792.2	676.3	587.1	517.8
60°	542.3	574.4	625.6	698.8	775.6	804.7	777.3	687.5	595.8	514.3	455.9
62.5°	491.8	520.1	564.1	632.1	694.1	711.4	682.1	603.6	521.1	451.4	403.1
65°	418.4	444.6	482.2	530.4	573.2	581.5	562.5	482.2	419.7	361.3	328.0
67.5°	351.9	369.0	398.3	440.0	462.7	467.6	430.8	380.3	325.2	289.4	264.2
70°	307.1	319.0	346.4	369.0	387.4	388.1	354.1	313.7	271.4	242.3	223.8
72.5°	263.8	275.3	295.9	311.4	325.5	321.0	289.9	258.0	223.8	201.8	188.1
75°	203.5	213.7	224.4	231.5	231.5	225.6	202.9	179.2	159.5	146.5	142.2
77.5°	148.0	156.3	159.9	158.8	156.7	147.4	133.1	117.5	110.5	104.3	101.2
80°	116.1	119.7	120.8	117.9	114.3	103.6	94.0	87.5	80.9	78.6	77.4
82.5°	86.1	89.2	86.1	86.9	79.0	70.3	65.0	62.8	60.0	59.1	57.9
85°	45.8	45.2	44.1	41.1	35.7	34.5	33.9	33.3	32.1	32.7	31.5
87.5°	16.3	15.5	13.8	13.5	13.5	13.8	14.2	14.6	15.1	14.4	15.5
90°	3.0	6.0	7.0	8.0	8.0	14.0	14.0	16.0	18.0	17.0	18.0
92.5°	16.6	26.0	38.2	52.9	73.6	124.5	202.1	277.8	317.4	264.3	196.5
95°	36.0	46.1	59.1	83.0	125.1	212.1	376.2	615.3	815.4	838.4	741.3
97.5°	59.2	67.8	79.8	100.5	135.7	202.7	338.2	575.8	858.8	1053.3	1095.4
100°	76.0	83.0	95.1	114.1	146.1	205.1	318.1	522.3	804.3	1060.5	1206.6
102.5°	93.7	99.9	111.1	129.2	159.7	213.1	312.5	486.2	736.3	1000.5	1201.0
105°	120.0	125.1	137.1	155.1	184.1	232.1	315.1	455.2	656.3	891.4	1120.5
107.5°	146.6	151.7	164.5	181.7	210.3	254.3	329.9	449.6	611.5	803.4	1006.3
110°	165.1	170.0	182.1	200.1	227.1	271.1	341.1	451.3	596.3	759.4	937.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.7	188.5	199.7	217.7	244.7	287.1	353.2	456.0	589.1	734.5	887.0
115°	209.1	216.1	226.1	245.1	272.2	312.1	372.2	465.2	585.3	711.4	836.4
117.5°	235.3	241.5	252.5	270.4	298.3	336.4	391.6	475.0	584.3	700.9	811.6
120°	252.1	259.2	270.1	287.1	315.1	353.2	405.2	482.2	584.3	695.3	800.4
122.5°	268.1	275.2	285.3	303.9	331.1	369.2	418.0	489.5	583.5	689.0	790.7
125°	291.1	297.1	308.2	327.2	355.2	391.2	437.2	500.2	582.3	678.3	774.4
127.5°	308.9	316.2	328.7	348.5	376.8	411.6	453.8	508.9	580.1	664.1	754.3
130°	320.1	328.1	343.2	362.1	391.2	425.2	464.3	515.2	579.3	655.3	738.4
132.5°	329.8	340.2	354.4	375.0	402.4	436.4	474.7	520.8	578.5	647.3	721.5
135°	345.2	355.2	372.2	393.2	419.2	452.2	488.3	529.3	577.3	635.3	698.4
137.5°	359.6	370.6	386.8	408.6	433.4	464.3	497.8	534.3	577.0	624.9	677.3
140°	369.2	380.2	397.2	418.2	442.2	472.3	504.2	538.3	576.3	619.3	665.3
142.5°	380.4	390.5	406.8	427.0	450.2	479.4	509.0	541.5	576.3	614.5	654.1
145°	396.2	406.2	420.2	439.2	461.2	487.2	514.3	543.3	574.3	606.3	638.3
147.5°	412.0	420.8	435.2	451.0	470.8	495.2	518.8	544.2	570.7	598.9	625.3
150°	423.2	431.2	443.2	458.2	477.3	499.2	521.2	544.2	568.3	593.3	617.3
152.5°	432.8	440.8	452.0	465.5	482.8	502.5	522.9	542.7	564.3	586.9	608.5
155°	448.2	454.2	464.3	475.3	490.3	507.2	524.3	540.3	558.3	577.3	595.3
157.5°	461.4	467.0	474.8	484.4	496.3	510.7	524.3	537.7	552.1	567.5	581.1
160°	470.2	474.2	481.2	489.2	500.2	512.2	524.3	535.3	547.3	560.3	572.3
162.5°	477.4	480.6	486.8	494.0	502.7	513.8	524.3	532.9	542.4	553.9	563.4
165°	487.2	489.2	494.2	499.2	505.2	514.3	522.3	528.2	535.3	543.3	551.3
167.5°	495.2	496.3	500.1	502.8	507.5	514.0	519.9	523.5	528.1	533.6	539.5
170°	499.2	500.2	503.3	505.2	508.2	513.2	518.2	520.2	523.2	527.3	532.3
172.5°	503.3	503.4	505.7	506.9	509.0	512.5	516.7	517.0	518.4	521.7	525.8
175°	507.2	507.2	508.2	509.3	509.3	511.3	514.3	513.2	513.2	515.2	517.3
177.5°	509.3	508.4	509.3	509.3	509.3	510.1	511.6	510.1	510.1	510.8	511.6
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3	509.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1549.7	1551.6	1553.1	1557.8	1558.2	1562.5	1558.2
5°	1677.9	1686.3	1699.4	1712.4	1713.6	1721.9	1707.1
7.5°	1821.7	1841.0	1853.0	1874.2	1882.6	1887.7	1879.2
10°	1920.7	1938.6	1970.1	1985.6	2001.1	2003.5	1996.3
12.5°	2016.5	2044.8	2069.7	2098.9	2098.3	2119.2	2111.6
15°	2144.0	2173.2	2207.6	2240.4	2252.3	2252.3	2261.8
17.5°	2234.9	2288.4	2324.1	2349.8	2377.9	2382.7	2379.5
20°	2296.4	2354.1	2392.2	2425.5	2444.6	2449.9	2449.9
22.5°	2342.0	2391.2	2428.4	2458.3	2474.1	2480.4	2478.5
25°	2373.7	2416.0	2438.6	2447.5	2451.7	2450.5	2439.2
27.5°	2330.4	2328.5	2314.2	2286.8	2266.2	2253.8	2239.5
30°	2247.6	2216.6	2180.8	2141.6	2091.0	2052.3	2040.4
32.5°	2124.2	2054.7	1994.2	1928.7	1874.3	1835.7	1819.5
35°	1885.7	1775.6	1685.7	1607.1	1550.0	1514.2	1502.4
37.5°	1602.6	1496.0	1384.7	1308.5	1261.1	1225.0	1211.6
40°	1422.5	1306.5	1209.4	1138.1	1089.3	1054.1	1053.5
42.5°	1258.3	1147.5	1056.2	1004.7	952.1	928.8	928.8
45°	1030.3	941.6	864.3	823.8	792.2	773.2	767.8
47.5°	853.1	779.7	728.1	695.9	670.2	658.1	650.2
50°	753.5	689.2	648.2	620.2	605.9	590.5	589.3
52.5°	670.7	618.8	586.8	564.0	546.0	536.7	536.9
55°	563.7	522.6	500.0	482.7	468.5	461.3	458.3
57.5°	474.8	444.0	427.6	411.7	405.7	400.1	398.6
60°	419.7	398.8	383.3	370.8	361.9	360.1	359.5
62.5°	373.9	352.1	341.4	331.7	325.2	322.4	321.4
65°	308.3	292.2	282.8	275.0	272.6	268.5	267.9
67.5°	248.6	238.9	232.6	227.2	224.0	223.8	223.8
70°	211.9	206.6	201.2	198.2	196.4	195.2	195.2
72.5°	180.5	176.5	172.1	170.6	170.2	169.0	168.6
75°	137.5	133.4	133.9	131.0	128.5	125.6	123.8
77.5°	97.5	94.5	93.9	93.6	91.5	91.2	92.1
80°	75.6	72.6	72.0	72.6	72.0	70.3	70.3
82.5°	57.5	55.0	54.4	54.1	53.5	54.1	53.1
85°	30.9	29.8	29.8	29.8	30.9	30.4	29.8
87.5°	14.7	14.5	15.0	14.6	14.9	14.2	14.6
90°	19.0	20.0	20.0	21.0	22.0	21.0	21.0
92.5°	147.8	117.7	97.6	85.8	80.4	77.1	77.1
95°	586.3	452.2	355.2	306.2	275.2	257.1	244.1
97.5°	1037.7	939.9	835.4	763.5	703.4	673.3	652.6
100°	1226.6	1177.6	1103.5	1016.5	955.5	925.5	917.5
102.5°	1300.2	1314.4	1283.6	1230.2	1185.9	1154.3	1148.0
105°	1293.7	1392.7	1433.7	1435.7	1427.7	1413.7	1407.6
107.5°	1190.6	1330.1	1419.3	1468.7	1491.5	1501.5	1504.2
110°	1110.5	1255.6	1365.6	1436.7	1478.7	1496.8	1505.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1040.1	1177.2	1287.2	1367.9	1418.7	1443.9	1458.5
115°	959.5	1076.5	1172.6	1251.6	1311.6	1343.7	1351.7
117.5°	913.4	1005.5	1086.9	1154.3	1204.8	1237.2	1243.4
120°	893.5	973.4	1044.5	1101.6	1145.6	1171.6	1182.6
122.5°	880.6	953.5	1015.7	1063.9	1101.6	1123.5	1134.5
125°	860.4	929.4	984.5	1024.5	1053.5	1072.5	1078.5
127.5°	836.6	905.4	957.7	997.9	1023.7	1039.7	1045.7
130°	817.4	885.5	938.5	979.5	1004.4	1020.5	1026.5
132.5°	795.8	862.2	915.2	955.5	983.7	998.8	1004.9
135°	763.4	824.4	874.4	914.5	942.5	958.5	964.5
137.5°	732.4	783.8	829.0	866.4	894.1	907.2	914.5
140°	712.3	757.3	799.4	834.4	856.4	870.4	878.4
142.5°	695.5	734.2	770.6	801.6	822.0	834.4	840.0
145°	672.4	702.3	730.4	755.4	772.4	782.4	787.4
147.5°	652.3	676.3	698.4	716.8	731.3	739.0	740.7
150°	640.3	660.3	678.3	694.3	707.3	713.3	714.4
152.5°	628.3	646.7	661.5	675.1	685.7	689.3	690.3
155°	611.3	626.3	638.3	648.3	656.3	659.4	659.4
157.5°	594.5	607.1	616.7	624.3	630.3	632.1	632.1
160°	583.2	594.3	602.3	608.3	614.3	615.3	615.3
162.5°	572.9	581.5	588.7	593.1	599.1	600.1	599.3
165°	557.2	564.3	569.3	573.3	577.3	576.3	575.3
167.5°	544.1	549.7	552.7	554.7	557.2	557.1	556.3
170°	535.3	539.2	542.3	544.2	545.3	544.2	544.2
172.5°	528.1	530.5	532.6	533.8	534.9	533.8	532.3
175°	518.2	520.2	520.2	520.2	522.3	520.2	518.2
177.5°	512.5	512.5	513.2	512.5	513.2	511.6	510.1
180°	509.3	509.3	509.3	509.3	509.3	509.3	509.3

(END OF REPORT)