

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: P332981-940

Luminaire Tested: **SA4XXRDIP-C1020D1205U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332981-940
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-C1020D1205U940-4F0-1E-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

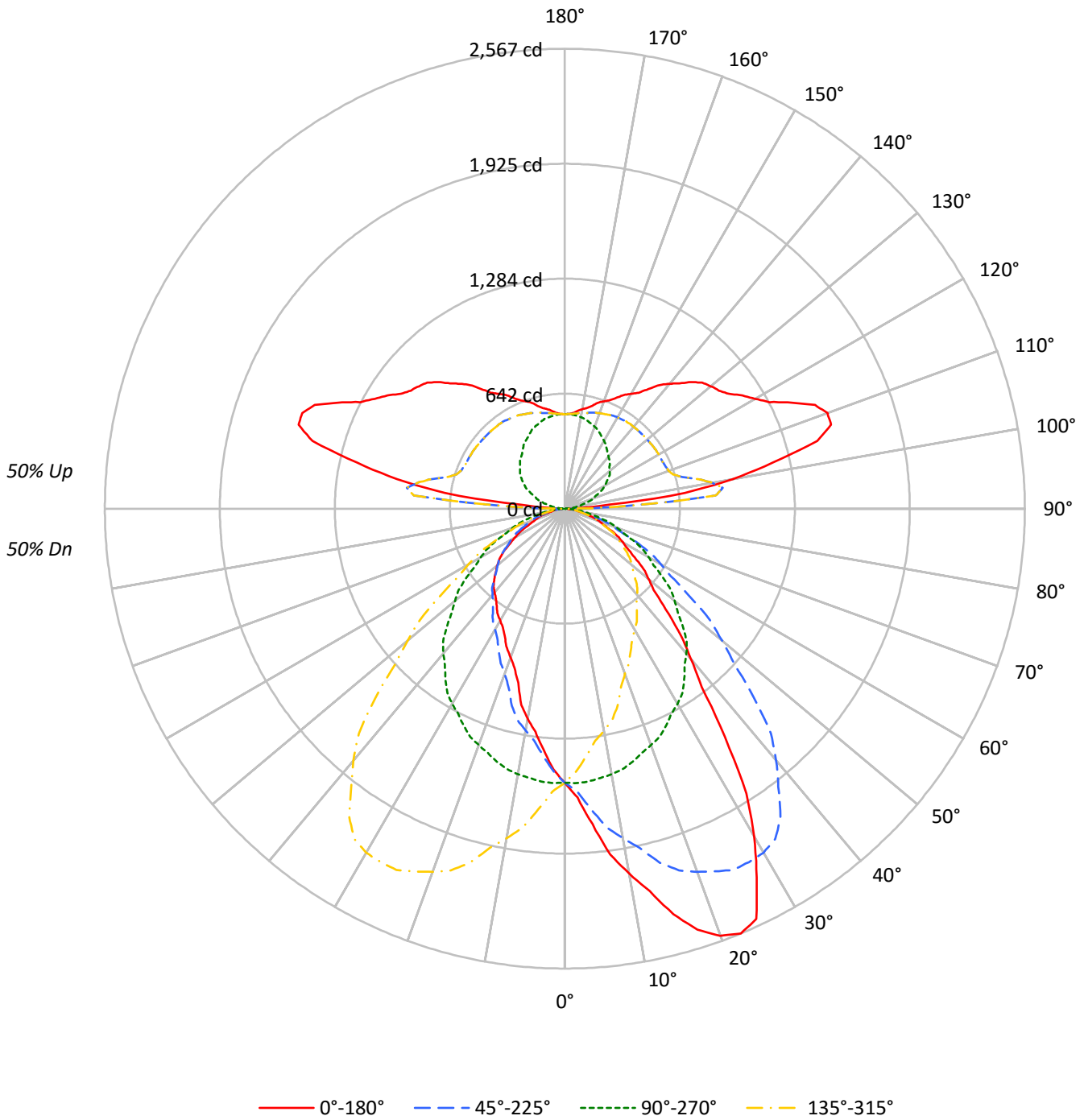
Lumens per Lamp: N/A
Luminaire Lumens: 7706.2 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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°	12352	12352	12352	12352
5°	14327	12388	10950	12388
10°	16948	12336	9773	12336
15°	19578	12221	8398	12221
20°	21798	12064	7594	12064
25°	22502	11909	7050	11909
30°	19699	11723	6723	11723
35°	15334	11446	6525	11446
40°	11499	11129	6418	11129
45°	9079	10620	6361	10620
50°	7665	10034	6179	10034
55°	6681	9388	5847	9388
60°	6011	8719	5176	8719
65°	5299	7996	4451	7996
70°	4773	7246	4015	7246
75°	3999	6422	3425	6422
80°	3384	5472	3208	5472
85°	2862	4279	2862	4279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.9
10°-20°	447.2	5.8
20°-30°	699.4	9.1
30°-40°	777.5	10.1
40°-50°	689.9	9.0
50°-60°	537.6	7.0
60°-70°	351.9	4.6
70°-80°	173.1	2.2
80°-90°	45.6	0.6
90°-100°	380.9	4.9
100°-110°	792.8	10.3
110°-120°	710.1	9.2
120°-130°	597.3	7.8
130°-140°	498.1	6.5
140°-150°	380.5	4.9
150°-160°	267.5	3.5
160°-170°	157.3	2.0
170°-180°	51.2	0.7
0°-30°	1294.9	16.8
0°-40°	2072.4	26.9
0°-60°	3299.8	42.8
0°-90°	3870.4	50.2
90°-120°	1883.9	24.4
90°-150°	3359.8	43.6
90°-180°	3836.0	49.8
0°-180°	7706.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1530	1530	1530	1530	1530	
5°	1768	1529	1351	1529	1768	179
15°	2342	1462	1005	1462	2342	666
25°	2526	1337	792	1337	2526	1121
35°	1556	1161	662	1161	1556	975
45°	795	930	557	930	795	630
55°	475	667	415	667	475	432
65°	277	419	233	419	277	279
75°	128	206	110	206	128	141
85°	31	46	31	46	31	35
90°	22	1	22	1	22	19
95°	253	34	253	34	253	392
105°	1458	121	1458	121	1458	1441
115°	1400	214	1400	214	1400	1390
125°	1117	297	1117	297	1117	1015
135°	999	353	999	353	999	771
145°	816	407	816	407	816	517
155°	683	463	683	463	683	319
165°	596	505	596	505	596	171
175°	537	526	537	526	537	52
180°	527	527	527	527	527	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1613.8	1618.3	1613.8	1613.4	1608.5	1607.0	1605.0	1598.6	1586.7	1579.8	1581.3
5°	1768.0	1783.3	1774.8	1773.5	1760.0	1746.4	1737.8	1718.1	1697.1	1682.9	1671.2
7.5°	1946.2	1955.1	1949.7	1941.1	1919.1	1906.7	1886.7	1860.6	1823.1	1794.3	1768.1
10°	2067.5	2074.9	2072.5	2056.5	2040.4	2007.8	1989.2	1952.9	1905.4	1867.9	1832.6
12.5°	2186.9	2194.8	2173.1	2173.8	2143.5	2117.7	2088.4	2042.6	1987.8	1939.3	1895.3
15°	2342.5	2332.6	2332.6	2320.3	2286.3	2250.7	2220.4	2172.4	2103.3	2045.3	1984.3
17.5°	2464.3	2467.7	2462.7	2433.6	2407.0	2370.0	2314.6	2258.5	2194.4	2116.7	2054.2
20°	2537.3	2537.3	2531.7	2512.0	2477.5	2438.0	2378.3	2317.2	2235.9	2157.6	2087.3
22.5°	2566.9	2568.8	2562.3	2546.0	2515.0	2476.5	2425.5	2363.6	2279.7	2191.6	2104.5
25°	2526.2	2537.9	2539.1	2534.8	2525.6	2502.1	2458.4	2394.9	2319.7	2224.1	2130.4
27.5°	2319.3	2334.1	2347.1	2368.4	2396.7	2411.5	2413.5	2381.2	2315.6	2223.7	2129.3
30°	2113.2	2125.5	2165.6	2218.0	2258.6	2295.6	2327.7	2336.3	2299.4	2216.7	2117.5
32.5°	1884.4	1901.1	1941.2	1997.5	2065.3	2128.0	2199.9	2236.7	2235.7	2186.1	2094.3
35°	1555.9	1568.3	1605.3	1664.4	1745.8	1838.9	1952.9	2041.7	2102.0	2097.7	2041.7
37.5°	1254.8	1268.7	1306.1	1355.2	1434.1	1549.3	1659.7	1782.0	1893.7	1956.5	1937.7
40°	1091.1	1091.7	1128.1	1178.7	1252.6	1353.1	1473.3	1608.9	1733.4	1835.1	1854.8
42.5°	961.9	962.0	986.1	1040.5	1093.9	1188.4	1303.1	1437.8	1583.5	1701.0	1753.3
45°	795.2	800.8	820.5	853.2	895.1	975.2	1067.0	1192.2	1355.6	1494.9	1581.8
47.5°	673.4	681.5	694.1	720.8	754.1	807.5	883.5	996.0	1128.8	1282.1	1405.8
50°	610.3	611.5	627.5	642.3	671.3	713.8	780.4	874.1	996.1	1143.5	1280.9
52.5°	556.1	555.8	565.4	584.2	607.7	640.9	694.6	779.9	888.1	1020.2	1162.1
55°	474.7	477.8	485.2	499.9	517.8	541.3	583.8	647.9	733.0	845.8	974.6
57.5°	412.8	414.4	420.2	426.4	442.8	459.9	491.8	536.3	608.1	700.4	820.5
60°	372.3	372.9	374.8	384.1	397.0	413.0	434.6	472.2	532.6	617.1	712.0
62.5°	332.9	333.9	336.8	343.6	353.6	364.7	387.3	417.5	467.5	539.7	625.2
65°	277.4	278.0	282.3	284.8	292.8	302.6	319.3	339.7	374.2	434.6	499.4
67.5°	231.8	231.8	232.0	235.3	240.9	247.4	257.4	273.7	299.7	336.8	393.9
70°	202.2	202.2	203.4	205.3	208.4	213.9	219.5	231.8	250.9	281.1	324.9
72.5°	174.6	175.0	176.3	176.6	178.3	182.8	186.9	194.8	209.0	231.8	267.2
75°	128.2	130.1	133.1	135.6	138.7	138.1	142.4	147.3	151.7	165.2	185.6
77.5°	95.4	94.4	94.8	96.9	97.3	97.9	100.9	104.8	108.0	114.4	121.7
80°	72.8	72.8	74.5	75.2	74.5	75.2	78.3	80.2	81.4	83.8	90.6
82.5°	55.0	56.0	55.4	56.0	56.4	57.0	59.6	59.9	61.2	62.2	65.0
85°	30.9	31.5	32.0	30.9	30.9	30.9	32.0	32.6	33.9	33.3	34.5
87.5°	15.2	14.7	15.4	15.2	15.5	15.0	15.2	16.1	14.9	15.6	15.2
90°	21.8	21.8	22.8	21.8	20.7	20.7	19.7	18.6	17.7	18.6	16.6
92.5°	79.8	79.8	83.3	88.9	101.1	121.9	153.1	203.5	273.8	328.7	287.7
95°	252.8	266.3	285.0	317.1	367.8	468.3	607.2	767.8	868.3	844.5	637.2
97.5°	675.8	697.3	728.4	790.8	865.2	973.4	1074.7	1134.4	1090.9	889.5	596.4
100°	950.2	958.5	989.5	1052.8	1142.9	1219.6	1270.3	1249.6	1098.3	833.0	540.9
102.5°	1188.9	1195.5	1228.2	1274.1	1329.4	1361.3	1346.6	1243.8	1036.2	762.6	503.5
105°	1457.9	1464.1	1478.6	1486.9	1484.8	1442.3	1339.8	1160.5	923.2	679.8	471.4
107.5°	1557.8	1555.1	1544.7	1521.1	1469.9	1377.5	1233.1	1042.1	832.1	633.3	465.7
110°	1559.4	1550.2	1531.4	1487.9	1414.3	1300.4	1150.1	970.9	786.5	617.6	467.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1510.6	1495.4	1469.3	1416.7	1333.1	1219.1	1077.2	918.6	760.7	610.1	472.3
115°	1399.9	1391.6	1358.4	1296.3	1214.4	1114.9	993.7	866.2	736.7	606.2	481.8
117.5°	1287.7	1281.3	1247.8	1195.5	1125.7	1041.3	946.0	840.5	725.9	605.1	492.0
120°	1224.8	1213.4	1186.4	1140.9	1081.7	1008.2	925.3	828.9	720.1	605.1	499.4
122.5°	1175.0	1163.6	1140.9	1101.9	1052.0	987.5	912.0	818.9	713.5	604.3	506.9
125°	1117.0	1110.8	1091.1	1061.0	1019.6	962.6	891.1	802.0	702.5	603.1	518.1
127.5°	1083.0	1076.8	1060.2	1033.5	991.8	937.7	866.5	781.2	687.8	600.7	527.0
130°	1063.1	1056.9	1040.3	1014.4	972.0	917.0	846.6	764.7	678.7	599.9	533.6
132.5°	1040.7	1034.5	1018.8	989.5	947.9	893.0	824.2	747.3	670.4	599.1	539.4
135°	998.9	992.7	976.1	947.1	905.6	853.8	790.6	723.3	658.0	597.9	548.1
137.5°	947.1	939.6	926.0	897.3	858.5	811.7	758.5	701.5	647.2	597.6	553.3
140°	909.7	901.4	887.0	864.2	827.9	784.3	737.7	689.0	641.4	596.8	557.5
142.5°	870.0	864.2	851.3	830.2	798.1	760.4	720.3	677.4	636.4	596.8	560.8
145°	815.5	810.3	800.0	782.3	756.4	727.4	696.3	661.1	627.9	594.8	562.7
147.5°	767.1	765.4	757.4	742.3	723.3	700.4	675.6	647.6	620.3	591.0	563.7
150°	739.9	738.8	732.5	719.1	702.5	683.9	663.2	639.4	614.5	588.5	563.7
152.5°	715.0	713.9	710.2	699.2	685.1	669.8	650.7	630.2	607.8	584.4	562.0
155°	682.9	682.9	679.8	671.5	661.1	648.6	633.1	616.5	597.9	578.2	559.5
157.5°	654.7	654.7	652.8	646.6	638.7	628.7	615.7	601.8	587.7	571.8	556.9
160°	637.2	637.2	636.2	630.0	623.8	615.5	604.0	592.7	580.2	566.8	554.4
162.5°	620.6	621.5	620.5	614.2	609.7	602.3	593.3	583.5	573.6	561.8	551.9
165°	595.8	596.8	597.9	593.7	589.6	584.4	577.1	571.0	562.7	554.4	547.1
167.5°	576.1	576.9	577.1	574.4	572.4	569.3	563.5	558.7	552.7	546.9	542.2
170°	563.7	563.7	564.7	563.7	561.6	558.5	554.4	551.3	546.1	541.9	538.8
172.5°	551.3	552.9	553.9	552.9	551.6	549.4	546.9	544.6	540.3	536.9	535.5
175°	536.7	538.8	540.9	538.8	538.8	538.8	536.7	535.7	533.6	531.5	531.5
177.5°	528.2	529.9	531.5	530.7	531.5	530.7	530.7	529.9	529.1	528.2	528.2
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1576.4	1569.5	1566.0	1558.1	1548.7	1543.8	1539.4	1532.9	1524.6	1515.7	1509.3
5°	1656.4	1641.6	1623.1	1600.9	1581.2	1562.1	1545.4	1528.7	1509.7	1490.0	1470.3
7.5°	1738.5	1709.4	1677.9	1641.6	1606.2	1574.0	1544.4	1516.1	1484.0	1455.3	1429.1
10°	1795.7	1756.2	1712.4	1666.3	1620.0	1579.9	1540.5	1504.8	1465.3	1430.1	1400.5
12.5°	1842.1	1795.7	1743.0	1685.5	1629.9	1581.4	1536.1	1489.4	1444.6	1406.5	1367.0
15°	1919.0	1855.5	1784.6	1715.6	1643.4	1577.4	1516.4	1462.2	1411.0	1357.5	1319.8
17.5°	1971.8	1896.6	1810.4	1727.4	1642.2	1564.4	1494.0	1429.4	1370.4	1315.6	1270.9
20°	2003.4	1920.2	1824.7	1730.4	1634.8	1551.6	1475.8	1404.3	1343.3	1284.1	1237.8
22.5°	2021.2	1929.1	1824.7	1725.9	1626.9	1536.8	1453.6	1379.1	1312.7	1253.5	1202.3
25°	2026.9	1928.2	1821.6	1708.2	1599.6	1504.1	1417.8	1337.0	1263.1	1203.9	1149.7
27.5°	2019.0	1902.8	1793.6	1677.2	1565.3	1464.5	1373.9	1289.1	1215.0	1151.6	1095.9
30°	2007.2	1882.6	1765.5	1644.7	1531.2	1434.5	1338.9	1257.6	1180.4	1114.5	1058.5
32.5°	1981.5	1858.0	1732.0	1608.2	1493.3	1393.6	1302.9	1221.0	1145.5	1078.1	1018.5
35°	1930.7	1805.5	1668.7	1541.8	1428.9	1325.3	1240.3	1161.4	1089.2	1017.2	954.2
37.5°	1863.8	1735.9	1599.8	1460.7	1347.8	1250.0	1172.0	1097.9	1027.5	961.6	892.0
40°	1800.6	1684.1	1543.6	1405.5	1289.6	1195.2	1123.2	1056.0	985.1	919.7	850.1
42.5°	1724.2	1625.0	1482.9	1344.3	1229.9	1139.1	1071.8	1006.1	941.6	878.3	805.7
45°	1596.6	1521.3	1388.2	1255.1	1139.8	1049.8	988.2	930.2	873.5	813.1	744.7
47.5°	1450.4	1399.5	1284.5	1148.2	1041.5	960.6	901.0	853.6	805.7	745.3	685.3
50°	1348.8	1316.1	1205.1	1080.7	978.9	904.3	843.3	798.9	758.8	700.9	647.3
52.5°	1240.3	1222.9	1129.2	1010.1	911.9	838.7	786.6	746.6	706.1	658.0	607.8
55°	1075.0	1084.3	1004.8	901.9	809.4	747.8	700.3	667.0	632.5	591.8	552.9
57.5°	906.2	940.0	886.5	796.2	709.5	652.6	616.8	588.8	559.8	526.1	492.9
60°	805.0	833.4	803.3	723.7	647.9	594.9	561.6	540.0	511.0	480.2	455.0
62.5°	706.4	736.7	718.9	654.7	584.2	538.7	509.3	489.2	467.6	440.8	414.5
65°	582.6	602.3	593.6	549.3	499.4	460.5	433.4	418.6	398.9	379.2	355.7
67.5°	446.2	484.3	479.2	455.7	412.5	382.2	364.4	351.3	333.4	318.7	302.8
70°	366.8	401.9	401.3	382.2	358.7	330.4	318.1	307.0	291.0	276.8	263.9
72.5°	300.2	332.4	337.2	322.5	306.5	285.1	273.2	265.6	250.0	240.3	229.8
75°	210.2	233.6	239.8	239.8	232.4	221.3	210.8	205.9	194.8	186.2	180.0
77.5°	137.9	152.7	162.3	164.4	165.6	161.8	153.3	149.8	141.2	138.2	132.3
80°	97.4	107.3	118.3	122.1	125.1	123.9	120.2	117.7	109.8	106.6	104.2
82.5°	67.3	72.8	81.9	90.0	89.2	92.4	89.2	87.2	81.1	80.0	77.6
85°	35.1	35.8	37.0	42.5	45.7	46.8	47.4	46.2	44.4	44.4	40.0
87.5°	14.7	14.3	14.0	14.0	14.3	16.1	16.9	16.9	15.9	15.1	13.8
90°	14.5	14.5	8.3	8.3	7.2	6.2	3.1	1.1	3.1	6.2	7.2
92.5°	209.3	128.9	76.2	54.8	39.6	26.9	17.2	11.8	17.2	26.9	39.6
95°	389.6	219.6	129.6	86.0	61.2	47.7	37.3	34.2	37.3	47.7	61.2
97.5°	350.3	209.9	140.5	104.1	82.7	70.3	61.3	61.3	61.3	70.3	82.7
100°	329.5	212.4	151.3	118.2	98.4	86.0	78.7	78.7	78.7	86.0	98.4
102.5°	323.7	220.7	165.4	133.8	115.0	103.4	97.0	95.3	97.0	103.4	115.0
105°	326.4	240.4	190.6	160.6	142.0	129.6	124.3	121.3	124.3	129.6	142.0
107.5°	341.7	263.4	217.8	188.2	170.3	157.1	151.9	149.8	151.9	157.1	170.3
110°	353.3	280.8	235.2	207.2	188.6	176.1	170.9	168.9	170.9	176.1	188.6



TEST NUMBER: P332981-940

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.8	297.4	253.4	225.5	206.8	195.2	189.2	187.2	189.2	195.2	206.8
115°	385.5	323.2	281.9	253.9	234.2	223.8	216.6	213.5	216.6	223.8	234.2
117.5°	405.6	348.4	309.0	280.0	261.5	250.1	243.7	240.8	243.7	250.1	261.5
120°	419.6	365.8	326.4	297.4	279.7	268.4	261.1	259.0	261.1	268.4	279.7
122.5°	432.9	382.4	343.0	314.8	295.5	285.0	277.7	275.6	277.7	285.0	295.5
125°	452.8	405.1	367.8	338.9	319.1	307.7	301.5	297.4	301.5	307.7	319.1
127.5°	470.0	426.2	390.2	361.0	340.5	327.4	319.9	316.6	319.9	327.4	340.5
130°	480.8	440.4	405.1	375.1	355.4	339.8	331.5	327.4	331.5	339.8	355.4
132.5°	491.6	452.0	416.8	388.3	367.0	352.3	341.5	338.2	341.5	352.3	367.0
135°	505.7	468.3	434.2	407.2	385.5	367.8	357.5	353.3	357.5	367.8	385.5
137.5°	515.6	480.8	448.9	423.2	400.6	383.8	372.4	368.5	372.4	383.8	400.6
140°	522.2	489.1	458.0	433.1	411.3	393.8	382.4	379.2	382.4	393.8	411.3
142.5°	527.2	496.5	466.3	442.2	421.3	404.5	394.0	390.8	394.0	404.5	421.3
145°	532.6	504.6	477.7	454.9	435.2	420.7	410.4	407.2	410.4	420.7	435.2
147.5°	537.3	512.9	487.6	467.1	450.8	435.8	426.7	425.6	426.7	435.8	450.8
150°	539.8	517.0	494.3	474.6	459.1	446.6	438.3	437.3	438.3	446.6	459.1
152.5°	541.5	520.4	500.1	482.1	468.1	456.6	448.3	448.0	448.3	456.6	468.1
155°	543.0	525.3	507.7	492.2	480.8	470.4	464.2	463.2	464.2	470.4	480.8
157.5°	543.0	528.9	514.0	501.7	491.8	483.7	477.9	477.9	477.9	483.7	491.8
160°	543.0	530.5	518.1	506.7	498.4	491.2	487.0	487.0	487.0	491.2	498.4
162.5°	543.0	532.2	520.6	511.7	504.2	497.8	494.5	495.3	494.5	497.8	504.2
165°	540.9	532.6	523.3	517.0	511.8	506.7	504.6	504.6	504.6	506.7	511.8
167.5°	538.4	532.4	525.6	520.8	517.9	514.0	512.9	514.0	512.9	514.0	517.9
170°	536.7	531.5	526.4	523.3	521.2	518.1	517.0	518.1	517.0	518.1	521.2
172.5°	535.1	530.7	527.2	525.0	523.7	521.4	521.2	522.2	521.2	521.4	523.7
175°	532.6	529.5	527.4	527.4	526.4	525.3	525.3	526.4	525.3	525.3	526.4
177.5°	529.9	528.2	527.4	527.4	527.4	526.6	527.4	528.2	527.4	526.6	527.4
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



TEST NUMBER: P332981-940

CATALOG NUMBER: SA4XXRDIP-C1020D1205U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1502.4	1497.4	1491.0	1483.6	1474.8	1466.9	1463.5	1466.4	1467.8	1463.9	1463.5
5°	1456.7	1441.3	1428.9	1410.4	1395.6	1383.3	1374.7	1371.0	1372.2	1362.4	1359.9
7.5°	1405.2	1387.0	1366.8	1344.8	1324.4	1306.3	1296.7	1291.6	1281.1	1276.7	1269.2
10°	1372.2	1347.6	1327.8	1301.9	1278.5	1257.0	1246.4	1237.8	1227.4	1222.4	1211.9
12.5°	1338.2	1309.6	1287.9	1261.0	1237.1	1211.0	1201.0	1185.1	1168.7	1158.3	1144.9
15°	1290.2	1255.7	1229.2	1197.1	1168.8	1139.2	1112.7	1083.1	1072.0	1048.6	1035.0
17.5°	1234.1	1199.1	1166.3	1123.3	1079.5	1042.8	1014.5	986.1	969.2	954.2	947.4
20°	1197.1	1165.1	1119.5	1069.5	1020.8	980.2	957.3	938.9	920.3	909.9	902.5
22.5°	1162.1	1121.1	1068.2	1014.3	965.6	933.8	914.4	895.5	880.4	870.4	860.6
25°	1103.4	1049.8	993.7	932.1	898.8	871.0	850.1	834.6	825.5	812.4	807.5
27.5°	1043.1	978.2	916.3	874.9	840.2	814.8	796.6	785.0	773.3	765.0	758.6
30°	996.8	930.9	875.4	835.9	800.8	779.8	765.0	751.4	742.2	735.4	730.5
32.5°	950.9	884.9	838.4	795.9	768.2	747.8	732.0	721.8	714.6	705.8	702.8
35°	884.6	826.0	785.3	747.2	718.8	700.3	688.0	677.4	671.3	668.9	667.0
37.5°	820.8	772.9	729.2	697.9	672.5	658.0	643.5	638.3	634.1	629.6	631.6
40°	780.4	735.4	696.6	663.3	642.9	627.0	618.3	612.2	608.4	608.4	608.4
42.5°	745.4	701.4	663.5	633.7	613.3	599.8	590.2	585.0	583.8	583.3	586.2
45°	691.1	650.3	612.2	587.5	570.2	556.6	551.1	546.8	546.8	549.3	549.8
47.5°	637.1	599.1	568.4	540.7	525.0	516.5	511.7	509.4	509.7	512.1	515.0
50°	604.1	566.5	536.3	511.7	496.9	488.8	484.6	483.3	484.6	484.6	488.8
52.5°	568.1	534.5	504.7	484.0	467.3	459.8	457.4	455.7	456.4	458.4	460.2
55°	515.3	485.2	456.8	437.0	424.7	419.8	414.3	414.8	413.7	414.8	414.8
57.5°	462.4	435.3	408.9	393.3	382.5	375.3	369.3	371.0	369.2	368.9	367.9
60°	428.5	398.9	377.9	363.7	351.3	345.2	339.7	340.9	339.0	337.8	335.4
62.5°	391.5	366.8	346.8	333.1	323.2	316.1	310.6	309.3	305.1	300.9	295.4
65°	337.8	317.4	299.6	286.7	277.4	271.9	267.5	263.9	254.6	244.7	239.8
67.5°	285.7	271.0	254.3	243.3	235.9	228.5	220.3	214.0	205.4	200.0	196.9
70°	252.1	237.9	223.7	213.3	205.3	198.5	189.2	184.9	178.8	176.3	173.3
72.5°	220.1	206.9	193.7	184.2	175.7	170.4	163.1	158.8	156.0	155.1	152.0
75°	171.4	160.9	151.1	142.4	135.6	131.9	128.9	125.7	124.5	119.0	115.9
77.5°	125.0	118.2	111.9	105.8	100.9	98.5	92.6	89.0	86.9	84.4	83.7
80°	97.4	92.5	86.3	82.6	75.8	73.4	70.9	70.3	69.6	69.0	68.4
82.5°	73.2	68.3	62.2	59.9	58.1	56.6	55.1	54.5	53.9	54.2	54.1
85°	37.0	34.5	34.5	33.9	33.3	32.6	32.0	32.0	31.5	32.0	31.5
87.5°	14.0	13.5	14.7	13.7	14.6	15.1	14.4	14.6	15.2	14.5	14.5
90°	8.3	8.3	14.5	14.5	16.6	18.6	17.7	18.6	19.7	20.7	20.7
92.5°	54.8	76.2	128.9	209.3	287.7	328.7	273.8	203.5	153.1	121.9	101.1
95°	86.0	129.6	219.6	389.6	637.2	844.5	868.3	767.8	607.2	468.3	367.8
97.5°	104.1	140.5	209.9	350.3	596.4	889.5	1090.9	1134.4	1074.7	973.4	865.2
100°	118.2	151.3	212.4	329.5	540.9	833.0	1098.3	1249.6	1270.3	1219.6	1142.9
102.5°	133.8	165.4	220.7	323.7	503.5	762.6	1036.2	1243.8	1346.6	1361.3	1329.4
105°	160.6	190.6	240.4	326.4	471.4	679.8	923.2	1160.5	1339.8	1442.3	1484.8
107.5°	188.2	217.8	263.4	341.7	465.7	633.3	832.1	1042.1	1233.1	1377.5	1469.9
110°	207.2	235.2	280.8	353.3	467.3	617.6	786.5	970.9	1150.1	1300.4	1414.3



TEST NUMBER: P332981-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	225.5	253.4	297.4	365.8	472.3	610.1	760.7	918.6	1077.2	1219.1	1333.1
115°	253.9	281.9	323.2	385.5	481.8	606.2	736.7	866.2	993.7	1114.9	1214.4
117.5°	280.0	309.0	348.4	405.6	492.0	605.1	725.9	840.5	946.0	1041.3	1125.7
120°	297.4	326.4	365.8	419.6	499.4	605.1	720.1	828.9	925.3	1008.2	1081.7
122.5°	314.8	343.0	382.4	432.9	506.9	604.3	713.5	818.9	912.0	987.5	1052.0
125°	338.9	367.8	405.1	452.8	518.1	603.1	702.5	802.0	891.1	962.6	1019.6
127.5°	361.0	390.2	426.2	470.0	527.0	600.7	687.8	781.2	866.5	937.7	991.8
130°	375.1	405.1	440.4	480.8	533.6	599.9	678.7	764.7	846.6	917.0	972.0
132.5°	388.3	416.8	452.0	491.6	539.4	599.1	670.4	747.3	824.2	893.0	947.9
135°	407.2	434.2	468.3	505.7	548.1	597.9	658.0	723.3	790.6	853.8	905.6
137.5°	423.2	448.9	480.8	515.6	553.3	597.6	647.2	701.5	758.5	811.7	858.5
140°	433.1	458.0	489.1	522.2	557.5	596.8	641.4	689.0	737.7	784.3	827.9
142.5°	442.2	466.3	496.5	527.2	560.8	596.8	636.4	677.4	720.3	760.4	798.1
145°	454.9	477.7	504.6	532.6	562.7	594.8	627.9	661.1	696.3	727.4	756.4
147.5°	467.1	487.6	512.9	537.3	563.7	591.0	620.3	647.6	675.6	700.4	723.3
150°	474.6	494.3	517.0	539.8	563.7	588.5	614.5	639.4	663.2	683.9	702.5
152.5°	482.1	500.1	520.4	541.5	562.0	584.4	607.8	630.2	650.7	669.8	685.1
155°	492.2	507.7	525.3	543.0	559.5	578.2	597.9	616.5	633.1	648.6	661.1
157.5°	501.7	514.0	528.9	543.0	556.9	571.8	587.7	601.8	615.7	628.7	638.7
160°	506.7	518.1	530.5	543.0	554.4	566.8	580.2	592.7	604.0	615.5	623.8
162.5°	511.7	520.6	532.2	543.0	551.9	561.8	573.6	583.5	593.3	602.3	609.7
165°	517.0	523.3	532.6	540.9	547.1	554.4	562.7	571.0	577.1	584.4	589.6
167.5°	520.8	525.6	532.4	538.4	542.2	546.9	552.7	558.7	563.5	569.3	572.4
170°	523.3	526.4	531.5	536.7	538.8	541.9	546.1	551.3	554.4	558.5	561.6
172.5°	525.0	527.2	530.7	535.1	535.5	536.9	540.3	544.6	546.9	549.4	551.6
175°	527.4	527.4	529.5	532.6	531.5	531.5	533.6	535.7	536.7	538.8	538.8
177.5°	527.4	527.4	528.2	529.9	528.2	528.2	529.1	529.9	530.7	530.7	531.5
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



TEST NUMBER: P332981-940
 CATALOG NUMBER: SA4XXRDIP-C1020D1205U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1460.4	1461.4	1458.0	1457.1	1458.0	1461.4	1460.4	1463.5	1463.9	1467.8	1466.4
5°	1355.0	1353.7	1350.6	1351.2	1350.6	1353.7	1355.0	1359.9	1362.4	1372.2	1371.0
7.5°	1264.7	1259.9	1261.2	1256.3	1261.2	1259.9	1264.7	1269.2	1276.7	1281.1	1291.6
10°	1209.4	1202.7	1197.1	1192.2	1197.1	1202.7	1209.4	1211.9	1222.4	1227.4	1237.8
12.5°	1134.0	1128.2	1120.7	1122.2	1120.7	1128.2	1134.0	1144.9	1158.3	1168.7	1185.1
15°	1027.0	1017.7	1003.0	1004.8	1003.0	1017.7	1027.0	1035.0	1048.6	1072.0	1083.1
17.5°	936.4	936.5	929.7	931.3	929.7	936.5	936.4	947.4	954.2	969.2	986.1
20°	889.6	885.2	885.8	884.0	885.8	885.2	889.6	902.5	909.9	920.3	938.9
22.5°	857.0	851.7	847.4	843.6	847.4	851.7	857.0	860.6	870.4	880.4	895.5
25°	802.0	798.3	792.7	791.5	792.7	798.3	802.0	807.5	812.4	825.5	834.6
27.5°	753.7	753.0	750.7	747.9	750.7	753.0	753.7	758.6	765.0	773.3	785.0
30°	725.6	724.3	723.1	721.2	723.1	724.3	725.6	730.5	735.4	742.2	751.4
32.5°	700.4	699.6	698.4	698.6	698.4	699.6	700.4	702.8	705.8	714.6	721.8
35°	664.5	663.9	662.7	662.1	662.7	663.9	664.5	667.0	668.9	671.3	677.4
37.5°	631.0	632.6	631.9	631.7	631.9	632.6	631.0	631.6	629.6	634.1	638.3
40°	607.8	608.4	609.7	609.0	609.7	608.4	607.8	608.4	608.4	608.4	612.2
42.5°	588.6	588.7	590.4	588.4	590.4	588.7	588.6	586.2	583.3	583.8	585.0
45°	554.2	557.9	557.2	557.2	557.2	557.9	554.2	549.8	549.3	546.8	546.8
47.5°	516.6	519.8	520.7	520.5	520.7	519.8	516.6	515.0	512.1	509.7	509.4
50°	492.0	490.7	492.6	492.0	492.6	490.7	492.0	488.8	484.6	484.6	483.3
52.5°	461.8	462.1	462.0	461.4	462.0	462.1	461.8	460.2	458.4	456.4	455.7
55°	415.4	416.1	414.8	415.4	414.8	416.1	415.4	414.8	414.8	413.7	414.8
57.5°	365.2	362.2	363.5	361.9	363.5	362.2	365.2	367.9	368.9	369.2	371.0
60°	329.2	324.2	323.0	320.6	323.0	324.2	329.2	335.4	337.8	339.0	340.9
62.5°	288.7	285.3	281.1	283.0	281.1	285.3	288.7	295.4	300.9	305.1	309.3
65°	234.9	232.4	230.5	233.0	230.5	232.4	234.9	239.8	244.7	254.6	263.9
67.5°	194.4	193.1	193.1	191.8	193.1	193.1	194.4	196.9	200.0	205.4	214.0
70°	173.3	171.4	171.4	170.1	171.4	171.4	173.3	173.3	176.3	178.8	184.9
72.5°	151.5	149.6	150.2	149.5	150.2	149.6	151.5	152.0	155.1	156.0	158.8
75°	112.2	109.1	109.1	109.8	109.1	109.1	112.2	115.9	119.0	124.5	125.7
77.5°	83.7	83.1	84.0	82.8	84.0	83.1	83.7	83.7	84.4	86.9	89.0
80°	68.4	67.8	67.2	69.0	67.2	67.8	68.4	68.4	69.0	69.6	70.3
82.5°	53.1	53.1	52.9	55.2	52.9	53.1	53.1	54.1	54.2	53.9	54.5
85°	32.0	30.9	32.0	30.9	32.0	30.9	32.0	31.5	32.0	31.5	32.0
87.5°	15.7	15.4	14.7	15.2	14.7	15.4	15.7	14.5	14.5	15.2	14.6
90°	21.8	22.8	21.8	21.8	21.8	22.8	21.8	20.7	20.7	19.7	18.6
92.5°	88.9	83.3	79.8	79.8	79.8	83.3	88.9	101.1	121.9	153.1	203.5
95°	317.1	285.0	266.3	252.8	266.3	285.0	317.1	367.8	468.3	607.2	767.8
97.5°	790.8	728.4	697.3	675.8	697.3	728.4	790.8	865.2	973.4	1074.7	1134.4
100°	1052.8	989.5	958.5	950.2	958.5	989.5	1052.8	1142.9	1219.6	1270.3	1249.6
102.5°	1274.1	1228.2	1195.5	1188.9	1195.5	1228.2	1274.1	1329.4	1361.3	1346.6	1243.8
105°	1486.9	1478.6	1464.1	1457.9	1464.1	1478.6	1486.9	1484.8	1442.3	1339.8	1160.5
107.5°	1521.1	1544.7	1555.1	1557.8	1555.1	1544.7	1521.1	1469.9	1377.5	1233.1	1042.1
110°	1487.9	1531.4	1550.2	1559.4	1550.2	1531.4	1487.9	1414.3	1300.4	1150.1	970.9



TEST NUMBER: P332981-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1416.7	1469.3	1495.4	1510.6	1495.4	1469.3	1416.7	1333.1	1219.1	1077.2	918.6
115°	1296.3	1358.4	1391.6	1399.9	1391.6	1358.4	1296.3	1214.4	1114.9	993.7	866.2
117.5°	1195.5	1247.8	1281.3	1287.7	1281.3	1247.8	1195.5	1125.7	1041.3	946.0	840.5
120°	1140.9	1186.4	1213.4	1224.8	1213.4	1186.4	1140.9	1081.7	1008.2	925.3	828.9
122.5°	1101.9	1140.9	1163.6	1175.0	1163.6	1140.9	1101.9	1052.0	987.5	912.0	818.9
125°	1061.0	1091.1	1110.8	1117.0	1110.8	1091.1	1061.0	1019.6	962.6	891.1	802.0
127.5°	1033.5	1060.2	1076.8	1083.0	1076.8	1060.2	1033.5	991.8	937.7	866.5	781.2
130°	1014.4	1040.3	1056.9	1063.1	1056.9	1040.3	1014.4	972.0	917.0	846.6	764.7
132.5°	989.5	1018.8	1034.5	1040.7	1034.5	1018.8	989.5	947.9	893.0	824.2	747.3
135°	947.1	976.1	992.7	998.9	992.7	976.1	947.1	905.6	853.8	790.6	723.3
137.5°	897.3	926.0	939.6	947.1	939.6	926.0	897.3	858.5	811.7	758.5	701.5
140°	864.2	887.0	901.4	909.7	901.4	887.0	864.2	827.9	784.3	737.7	689.0
142.5°	830.2	851.3	864.2	870.0	864.2	851.3	830.2	798.1	760.4	720.3	677.4
145°	782.3	800.0	810.3	815.5	810.3	800.0	782.3	756.4	727.4	696.3	661.1
147.5°	742.3	757.4	765.4	767.1	765.4	757.4	742.3	723.3	700.4	675.6	647.6
150°	719.1	732.5	738.8	739.9	738.8	732.5	719.1	702.5	683.9	663.2	639.4
152.5°	699.2	710.2	713.9	715.0	713.9	710.2	699.2	685.1	669.8	650.7	630.2
155°	671.5	679.8	682.9	682.9	682.9	679.8	671.5	661.1	648.6	633.1	616.5
157.5°	646.6	652.8	654.7	654.7	654.7	652.8	646.6	638.7	628.7	615.7	601.8
160°	630.0	636.2	637.2	637.2	637.2	636.2	630.0	623.8	615.5	604.0	592.7
162.5°	614.2	620.5	621.5	620.6	621.5	620.5	614.2	609.7	602.3	593.3	583.5
165°	593.7	597.9	596.8	595.8	596.8	597.9	593.7	589.6	584.4	577.1	571.0
167.5°	574.4	577.1	576.9	576.1	576.9	577.1	574.4	572.4	569.3	563.5	558.7
170°	563.7	564.7	563.7	563.7	563.7	564.7	563.7	561.6	558.5	554.4	551.3
172.5°	552.9	553.9	552.9	551.3	552.9	553.9	552.9	551.6	549.4	546.9	544.6
175°	538.8	540.9	538.8	536.7	538.8	540.9	538.8	538.8	538.8	536.7	535.7
177.5°	530.7	531.5	529.9	528.2	529.9	531.5	530.7	531.5	530.7	530.7	529.9
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1463.5	1466.9	1474.8	1483.6	1491.0	1497.4	1502.4	1509.3	1515.7	1524.6	1532.9
5°	1374.7	1383.3	1395.6	1410.4	1428.9	1441.3	1456.7	1470.3	1490.0	1509.7	1528.7
7.5°	1296.7	1306.3	1324.4	1344.8	1366.8	1387.0	1405.2	1429.1	1455.3	1484.0	1516.1
10°	1246.4	1257.0	1278.5	1301.9	1327.8	1347.6	1372.2	1400.5	1430.1	1465.3	1504.8
12.5°	1201.0	1211.0	1237.1	1261.0	1287.9	1309.6	1338.2	1367.0	1406.5	1444.6	1489.4
15°	1112.7	1139.2	1168.8	1197.1	1229.2	1255.7	1290.2	1319.8	1357.5	1411.0	1462.2
17.5°	1014.5	1042.8	1079.5	1123.3	1166.3	1199.1	1234.1	1270.9	1315.6	1370.4	1429.4
20°	957.3	980.2	1020.8	1069.5	1119.5	1165.1	1197.1	1237.8	1284.1	1343.3	1404.3
22.5°	914.4	933.8	965.6	1014.3	1068.2	1121.1	1162.1	1202.3	1253.5	1312.7	1379.1
25°	850.1	871.0	898.8	932.1	993.7	1049.8	1103.4	1149.7	1203.9	1263.1	1337.0
27.5°	796.6	814.8	840.2	874.9	916.3	978.2	1043.1	1095.9	1151.6	1215.0	1289.1
30°	765.0	779.8	800.8	835.9	875.4	930.9	996.8	1058.5	1114.5	1180.4	1257.6
32.5°	732.0	747.8	768.2	795.9	838.4	884.9	950.9	1018.5	1078.1	1145.5	1221.0
35°	688.0	700.3	718.8	747.2	785.3	826.0	884.6	954.2	1017.2	1089.2	1161.4
37.5°	643.5	658.0	672.5	697.9	729.2	772.9	820.8	892.0	961.6	1027.5	1097.9
40°	618.3	627.0	642.9	663.3	696.6	735.4	780.4	850.1	919.7	985.1	1056.0
42.5°	590.2	599.8	613.3	633.7	663.5	701.4	745.4	805.7	878.3	941.6	1006.1
45°	551.1	556.6	570.2	587.5	612.2	650.3	691.1	744.7	813.1	873.5	930.2
47.5°	511.7	516.5	525.0	540.7	568.4	599.1	637.1	685.3	745.3	805.7	853.6
50°	484.6	488.8	496.9	511.7	536.3	566.5	604.1	647.3	700.9	758.8	798.9
52.5°	457.4	459.8	467.3	484.0	504.7	534.5	568.1	607.8	658.0	706.1	746.6
55°	414.3	419.8	424.7	437.0	456.8	485.2	515.3	552.9	591.8	632.5	667.0
57.5°	369.3	375.3	382.5	393.3	408.9	435.3	462.4	492.9	526.1	559.8	588.8
60°	339.7	345.2	351.3	363.7	377.9	398.9	428.5	455.0	480.2	511.0	540.0
62.5°	310.6	316.1	323.2	333.1	346.8	366.8	391.5	414.5	440.8	467.6	489.2
65°	267.5	271.9	277.4	286.7	299.6	317.4	337.8	355.7	379.2	398.9	418.6
67.5°	220.3	228.5	235.9	243.3	254.3	271.0	285.7	302.8	318.7	333.4	351.3
70°	189.2	198.5	205.3	213.3	223.7	237.9	252.1	263.9	276.8	291.0	307.0
72.5°	163.1	170.4	175.7	184.2	193.7	206.9	220.1	229.8	240.3	250.0	265.6
75°	128.9	131.9	135.6	142.4	151.1	160.9	171.4	180.0	186.2	194.8	205.9
77.5°	92.6	98.5	100.9	105.8	111.9	118.2	125.0	132.3	138.2	141.2	149.8
80°	70.9	73.4	75.8	82.6	86.3	92.5	97.4	104.2	106.6	109.8	117.7
82.5°	55.1	56.6	58.1	59.9	62.2	68.3	73.2	77.6	80.0	81.1	87.2
85°	32.0	32.6	33.3	33.9	34.5	34.5	37.0	40.0	44.4	44.4	46.2
87.5°	14.4	15.1	14.6	13.7	14.7	13.5	14.0	13.8	15.1	15.9	16.9
90°	17.7	18.6	16.6	14.5	14.5	8.3	8.3	7.2	6.2	3.1	1.1
92.5°	273.8	328.7	287.7	209.3	128.9	76.2	54.8	39.6	26.9	17.2	11.8
95°	868.3	844.5	637.2	389.6	219.6	129.6	86.0	61.2	47.7	37.3	34.2
97.5°	1090.9	889.5	596.4	350.3	209.9	140.5	104.1	82.7	70.3	61.3	61.3
100°	1098.3	833.0	540.9	329.5	212.4	151.3	118.2	98.4	86.0	78.7	78.7
102.5°	1036.2	762.6	503.5	323.7	220.7	165.4	133.8	115.0	103.4	97.0	95.3
105°	923.2	679.8	471.4	326.4	240.4	190.6	160.6	142.0	129.6	124.3	121.3
107.5°	832.1	633.3	465.7	341.7	263.4	217.8	188.2	170.3	157.1	151.9	149.8
110°	786.5	617.6	467.3	353.3	280.8	235.2	207.2	188.6	176.1	170.9	168.9



TEST NUMBER: P332981-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	760.7	610.1	472.3	365.8	297.4	253.4	225.5	206.8	195.2	189.2	187.2
115°	736.7	606.2	481.8	385.5	323.2	281.9	253.9	234.2	223.8	216.6	213.5
117.5°	725.9	605.1	492.0	405.6	348.4	309.0	280.0	261.5	250.1	243.7	240.8
120°	720.1	605.1	499.4	419.6	365.8	326.4	297.4	279.7	268.4	261.1	259.0
122.5°	713.5	604.3	506.9	432.9	382.4	343.0	314.8	295.5	285.0	277.7	275.6
125°	702.5	603.1	518.1	452.8	405.1	367.8	338.9	319.1	307.7	301.5	297.4
127.5°	687.8	600.7	527.0	470.0	426.2	390.2	361.0	340.5	327.4	319.9	316.6
130°	678.7	599.9	533.6	480.8	440.4	405.1	375.1	355.4	339.8	331.5	327.4
132.5°	670.4	599.1	539.4	491.6	452.0	416.8	388.3	367.0	352.3	341.5	338.2
135°	658.0	597.9	548.1	505.7	468.3	434.2	407.2	385.5	367.8	357.5	353.3
137.5°	647.2	597.6	553.3	515.6	480.8	448.9	423.2	400.6	383.8	372.4	368.5
140°	641.4	596.8	557.5	522.2	489.1	458.0	433.1	411.3	393.8	382.4	379.2
142.5°	636.4	596.8	560.8	527.2	496.5	466.3	442.2	421.3	404.5	394.0	390.8
145°	627.9	594.8	562.7	532.6	504.6	477.7	454.9	435.2	420.7	410.4	407.2
147.5°	620.3	591.0	563.7	537.3	512.9	487.6	467.1	450.8	435.8	426.7	425.6
150°	614.5	588.5	563.7	539.8	517.0	494.3	474.6	459.1	446.6	438.3	437.3
152.5°	607.8	584.4	562.0	541.5	520.4	500.1	482.1	468.1	456.6	448.3	448.0
155°	597.9	578.2	559.5	543.0	525.3	507.7	492.2	480.8	470.4	464.2	463.2
157.5°	587.7	571.8	556.9	543.0	528.9	514.0	501.7	491.8	483.7	477.9	477.9
160°	580.2	566.8	554.4	543.0	530.5	518.1	506.7	498.4	491.2	487.0	487.0
162.5°	573.6	561.8	551.9	543.0	532.2	520.6	511.7	504.2	497.8	494.5	495.3
165°	562.7	554.4	547.1	540.9	532.6	523.3	517.0	511.8	506.7	504.6	504.6
167.5°	552.7	546.9	542.2	538.4	532.4	525.6	520.8	517.9	514.0	512.9	514.0
170°	546.1	541.9	538.8	536.7	531.5	526.4	523.3	521.2	518.1	517.0	518.1
172.5°	540.3	536.9	535.5	535.1	530.7	527.2	525.0	523.7	521.4	521.2	522.2
175°	533.6	531.5	531.5	532.6	529.5	527.4	527.4	526.4	525.3	525.3	526.4
177.5°	529.1	528.2	528.2	529.9	528.2	527.4	527.4	527.4	526.6	527.4	528.2
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1539.4	1543.8	1548.7	1558.1	1566.0	1569.5	1576.4	1581.3	1579.8	1586.7	1598.6
5°	1545.4	1562.1	1581.2	1600.9	1623.1	1641.6	1656.4	1671.2	1682.9	1697.1	1718.1
7.5°	1544.4	1574.0	1606.2	1641.6	1677.9	1709.4	1738.5	1768.1	1794.3	1823.1	1860.6
10°	1540.5	1579.9	1620.0	1666.3	1712.4	1756.2	1795.7	1832.6	1867.9	1905.4	1952.9
12.5°	1536.1	1581.4	1629.9	1685.5	1743.0	1795.7	1842.1	1895.3	1939.3	1987.8	2042.6
15°	1516.4	1577.4	1643.4	1715.6	1784.6	1855.5	1919.0	1984.3	2045.3	2103.3	2172.4
17.5°	1494.0	1564.4	1642.2	1727.4	1810.4	1896.6	1971.8	2054.2	2116.7	2194.4	2258.5
20°	1475.8	1551.6	1634.8	1730.4	1824.7	1920.2	2003.4	2087.3	2157.6	2235.9	2317.2
22.5°	1453.6	1536.8	1626.9	1725.9	1824.7	1929.1	2021.2	2104.5	2191.6	2279.7	2363.6
25°	1417.8	1504.1	1599.6	1708.2	1821.6	1928.2	2026.9	2130.4	2224.1	2319.7	2394.9
27.5°	1373.9	1464.5	1565.3	1677.2	1793.6	1902.8	2019.0	2129.3	2223.7	2315.6	2381.2
30°	1338.9	1434.5	1531.2	1644.7	1765.5	1882.6	2007.2	2117.5	2216.7	2299.4	2336.3
32.5°	1302.9	1393.6	1493.3	1608.2	1732.0	1858.0	1981.5	2094.3	2186.1	2235.7	2236.7
35°	1240.3	1325.3	1428.9	1541.8	1668.7	1805.5	1930.7	2041.7	2097.7	2102.0	2041.7
37.5°	1172.0	1250.0	1347.8	1460.7	1599.8	1735.9	1863.8	1937.7	1956.5	1893.7	1782.0
40°	1123.2	1195.2	1289.6	1405.5	1543.6	1684.1	1800.6	1854.8	1835.1	1733.4	1608.9
42.5°	1071.8	1139.1	1229.9	1344.3	1482.9	1625.0	1724.2	1753.3	1701.0	1583.5	1437.8
45°	988.2	1049.8	1139.8	1255.1	1388.2	1521.3	1596.6	1581.8	1494.9	1355.6	1192.2
47.5°	901.0	960.6	1041.5	1148.2	1284.5	1399.5	1450.4	1405.8	1282.1	1128.8	996.0
50°	843.3	904.3	978.9	1080.7	1205.1	1316.1	1348.8	1280.9	1143.5	996.1	874.1
52.5°	786.6	838.7	911.9	1010.1	1129.2	1222.9	1240.3	1162.1	1020.2	888.1	779.9
55°	700.3	747.8	809.4	901.9	1004.8	1084.3	1075.0	974.6	845.8	733.0	647.9
57.5°	616.8	652.6	709.5	796.2	886.5	940.0	906.2	820.5	700.4	608.1	536.3
60°	561.6	594.9	647.9	723.7	803.3	833.4	805.0	712.0	617.1	532.6	472.2
62.5°	509.3	538.7	584.2	654.7	718.9	736.7	706.4	625.2	539.7	467.5	417.5
65°	433.4	460.5	499.4	549.3	593.6	602.3	582.6	499.4	434.6	374.2	339.7
67.5°	364.4	382.2	412.5	455.7	479.2	484.3	446.2	393.9	336.8	299.7	273.7
70°	318.1	330.4	358.7	382.2	401.3	401.9	366.8	324.9	281.1	250.9	231.8
72.5°	273.2	285.1	306.5	322.5	337.2	332.4	300.2	267.2	231.8	209.0	194.8
75°	210.8	221.3	232.4	239.8	239.8	233.6	210.2	185.6	165.2	151.7	147.3
77.5°	153.3	161.8	165.6	164.4	162.3	152.7	137.9	121.7	114.4	108.0	104.8
80°	120.2	123.9	125.1	122.1	118.3	107.3	97.4	90.6	83.8	81.4	80.2
82.5°	89.2	92.4	89.2	90.0	81.9	72.8	67.3	65.0	62.2	61.2	59.9
85°	47.4	46.8	45.7	42.5	37.0	35.8	35.1	34.5	33.3	33.9	32.6
87.5°	16.9	16.1	14.3	14.0	14.0	14.3	14.7	15.2	15.6	14.9	16.1
90°	3.1	6.2	7.2	8.3	8.3	14.5	14.5	16.6	18.6	17.7	18.6
92.5°	17.2	26.9	39.6	54.8	76.2	128.9	209.3	287.7	328.7	273.8	203.5
95°	37.3	47.7	61.2	86.0	129.6	219.6	389.6	637.2	844.5	868.3	767.8
97.5°	61.3	70.3	82.7	104.1	140.5	209.9	350.3	596.4	889.5	1090.9	1134.4
100°	78.7	86.0	98.4	118.2	151.3	212.4	329.5	540.9	833.0	1098.3	1249.6
102.5°	97.0	103.4	115.0	133.8	165.4	220.7	323.7	503.5	762.6	1036.2	1243.8
105°	124.3	129.6	142.0	160.6	190.6	240.4	326.4	471.4	679.8	923.2	1160.5
107.5°	151.9	157.1	170.3	188.2	217.8	263.4	341.7	465.7	633.3	832.1	1042.1
110°	170.9	176.1	188.6	207.2	235.2	280.8	353.3	467.3	617.6	786.5	970.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.2	195.2	206.8	225.5	253.4	297.4	365.8	472.3	610.1	760.7	918.6
115°	216.6	223.8	234.2	253.9	281.9	323.2	385.5	481.8	606.2	736.7	866.2
117.5°	243.7	250.1	261.5	280.0	309.0	348.4	405.6	492.0	605.1	725.9	840.5
120°	261.1	268.4	279.7	297.4	326.4	365.8	419.6	499.4	605.1	720.1	828.9
122.5°	277.7	285.0	295.5	314.8	343.0	382.4	432.9	506.9	604.3	713.5	818.9
125°	301.5	307.7	319.1	338.9	367.8	405.1	452.8	518.1	603.1	702.5	802.0
127.5°	319.9	327.4	340.5	361.0	390.2	426.2	470.0	527.0	600.7	687.8	781.2
130°	331.5	339.8	355.4	375.1	405.1	440.4	480.8	533.6	599.9	678.7	764.7
132.5°	341.5	352.3	367.0	388.3	416.8	452.0	491.6	539.4	599.1	670.4	747.3
135°	357.5	367.8	385.5	407.2	434.2	468.3	505.7	548.1	597.9	658.0	723.3
137.5°	372.4	383.8	400.6	423.2	448.9	480.8	515.6	553.3	597.6	647.2	701.5
140°	382.4	393.8	411.3	433.1	458.0	489.1	522.2	557.5	596.8	641.4	689.0
142.5°	394.0	404.5	421.3	442.2	466.3	496.5	527.2	560.8	596.8	636.4	677.4
145°	410.4	420.7	435.2	454.9	477.7	504.6	532.6	562.7	594.8	627.9	661.1
147.5°	426.7	435.8	450.8	467.1	487.6	512.9	537.3	563.7	591.0	620.3	647.6
150°	438.3	446.6	459.1	474.6	494.3	517.0	539.8	563.7	588.5	614.5	639.4
152.5°	448.3	456.6	468.1	482.1	500.1	520.4	541.5	562.0	584.4	607.8	630.2
155°	464.2	470.4	480.8	492.2	507.7	525.3	543.0	559.5	578.2	597.9	616.5
157.5°	477.9	483.7	491.8	501.7	514.0	528.9	543.0	556.9	571.8	587.7	601.8
160°	487.0	491.2	498.4	506.7	518.1	530.5	543.0	554.4	566.8	580.2	592.7
162.5°	494.5	497.8	504.2	511.7	520.6	532.2	543.0	551.9	561.8	573.6	583.5
165°	504.6	506.7	511.8	517.0	523.3	532.6	540.9	547.1	554.4	562.7	571.0
167.5°	512.9	514.0	517.9	520.8	525.6	532.4	538.4	542.2	546.9	552.7	558.7
170°	517.0	518.1	521.2	523.3	526.4	531.5	536.7	538.8	541.9	546.1	551.3
172.5°	521.2	521.4	523.7	525.0	527.2	530.7	535.1	535.5	536.9	540.3	544.6
175°	525.3	525.3	526.4	527.4	527.4	529.5	532.6	531.5	531.5	533.6	535.7
177.5°	527.4	526.6	527.4	527.4	527.4	528.2	529.9	528.2	528.2	529.1	529.9
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4	527.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0	1530.0
2.5°	1605.0	1607.0	1608.5	1613.4	1613.8	1618.3	1613.8
5°	1737.8	1746.4	1760.0	1773.5	1774.8	1783.3	1768.0
7.5°	1886.7	1906.7	1919.1	1941.1	1949.7	1955.1	1946.2
10°	1989.2	2007.8	2040.4	2056.5	2072.5	2074.9	2067.5
12.5°	2088.4	2117.7	2143.5	2173.8	2173.1	2194.8	2186.9
15°	2220.4	2250.7	2286.3	2320.3	2332.6	2332.6	2342.5
17.5°	2314.6	2370.0	2407.0	2433.6	2462.7	2467.7	2464.3
20°	2378.3	2438.0	2477.5	2512.0	2531.7	2537.3	2537.3
22.5°	2425.5	2476.5	2515.0	2546.0	2562.3	2568.8	2566.9
25°	2458.4	2502.1	2525.6	2534.8	2539.1	2537.9	2526.2
27.5°	2413.5	2411.5	2396.7	2368.4	2347.1	2334.1	2319.3
30°	2327.7	2295.6	2258.6	2218.0	2165.6	2125.5	2113.2
32.5°	2199.9	2128.0	2065.3	1997.5	1941.2	1901.1	1884.4
35°	1952.9	1838.9	1745.8	1664.4	1605.3	1568.3	1555.9
37.5°	1659.7	1549.3	1434.1	1355.2	1306.1	1268.7	1254.8
40°	1473.3	1353.1	1252.6	1178.7	1128.1	1091.7	1091.1
42.5°	1303.1	1188.4	1093.9	1040.5	986.1	962.0	961.9
45°	1067.0	975.2	895.1	853.2	820.5	800.8	795.2
47.5°	883.5	807.5	754.1	720.8	694.1	681.5	673.4
50°	780.4	713.8	671.3	642.3	627.5	611.5	610.3
52.5°	694.6	640.9	607.7	584.2	565.4	555.8	556.1
55°	583.8	541.3	517.8	499.9	485.2	477.8	474.7
57.5°	491.8	459.9	442.8	426.4	420.2	414.4	412.8
60°	434.6	413.0	397.0	384.1	374.8	372.9	372.3
62.5°	387.3	364.7	353.6	343.6	336.8	333.9	332.9
65°	319.3	302.6	292.8	284.8	282.3	278.0	277.4
67.5°	257.4	247.4	240.9	235.3	232.0	231.8	231.8
70°	219.5	213.9	208.4	205.3	203.4	202.2	202.2
72.5°	186.9	182.8	178.3	176.6	176.3	175.0	174.6
75°	142.4	138.1	138.7	135.6	133.1	130.1	128.2
77.5°	100.9	97.9	97.3	96.9	94.8	94.4	95.4
80°	78.3	75.2	74.5	75.2	74.5	72.8	72.8
82.5°	59.6	57.0	56.4	56.0	55.4	56.0	55.0
85°	32.0	30.9	30.9	30.9	32.0	31.5	30.9
87.5°	15.2	15.0	15.5	15.2	15.4	14.7	15.2
90°	19.7	20.7	20.7	21.8	22.8	21.8	21.8
92.5°	153.1	121.9	101.1	88.9	83.3	79.8	79.8
95°	607.2	468.3	367.8	317.1	285.0	266.3	252.8
97.5°	1074.7	973.4	865.2	790.8	728.4	697.3	675.8
100°	1270.3	1219.6	1142.9	1052.8	989.5	958.5	950.2
102.5°	1346.6	1361.3	1329.4	1274.1	1228.2	1195.5	1188.9
105°	1339.8	1442.3	1484.8	1486.9	1478.6	1464.1	1457.9
107.5°	1233.1	1377.5	1469.9	1521.1	1544.7	1555.1	1557.8
110°	1150.1	1300.4	1414.3	1487.9	1531.4	1550.2	1559.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1077.2	1219.1	1333.1	1416.7	1469.3	1495.4	1510.6
115°	993.7	1114.9	1214.4	1296.3	1358.4	1391.6	1399.9
117.5°	946.0	1041.3	1125.7	1195.5	1247.8	1281.3	1287.7
120°	925.3	1008.2	1081.7	1140.9	1186.4	1213.4	1224.8
122.5°	912.0	987.5	1052.0	1101.9	1140.9	1163.6	1175.0
125°	891.1	962.6	1019.6	1061.0	1091.1	1110.8	1117.0
127.5°	866.5	937.7	991.8	1033.5	1060.2	1076.8	1083.0
130°	846.6	917.0	972.0	1014.4	1040.3	1056.9	1063.1
132.5°	824.2	893.0	947.9	989.5	1018.8	1034.5	1040.7
135°	790.6	853.8	905.6	947.1	976.1	992.7	998.9
137.5°	758.5	811.7	858.5	897.3	926.0	939.6	947.1
140°	737.7	784.3	827.9	864.2	887.0	901.4	909.7
142.5°	720.3	760.4	798.1	830.2	851.3	864.2	870.0
145°	696.3	727.4	756.4	782.3	800.0	810.3	815.5
147.5°	675.6	700.4	723.3	742.3	757.4	765.4	767.1
150°	663.2	683.9	702.5	719.1	732.5	738.8	739.9
152.5°	650.7	669.8	685.1	699.2	710.2	713.9	715.0
155°	633.1	648.6	661.1	671.5	679.8	682.9	682.9
157.5°	615.7	628.7	638.7	646.6	652.8	654.7	654.7
160°	604.0	615.5	623.8	630.0	636.2	637.2	637.2
162.5°	593.3	602.3	609.7	614.2	620.5	621.5	620.6
165°	577.1	584.4	589.6	593.7	597.9	596.8	595.8
167.5°	563.5	569.3	572.4	574.4	577.1	576.9	576.1
170°	554.4	558.5	561.6	563.7	564.7	563.7	563.7
172.5°	546.9	549.4	551.6	552.9	553.9	552.9	551.3
175°	536.7	538.8	538.8	538.8	540.9	538.8	536.7
177.5°	530.7	530.7	531.5	530.7	531.5	529.9	528.2
180°	527.4	527.4	527.4	527.4	527.4	527.4	527.4

(END OF REPORT)