

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: P332973-927

Luminaire Tested: **SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332973-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6709.5 lumens  
Efficiency: N/A  
Efficacy: 110.9 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

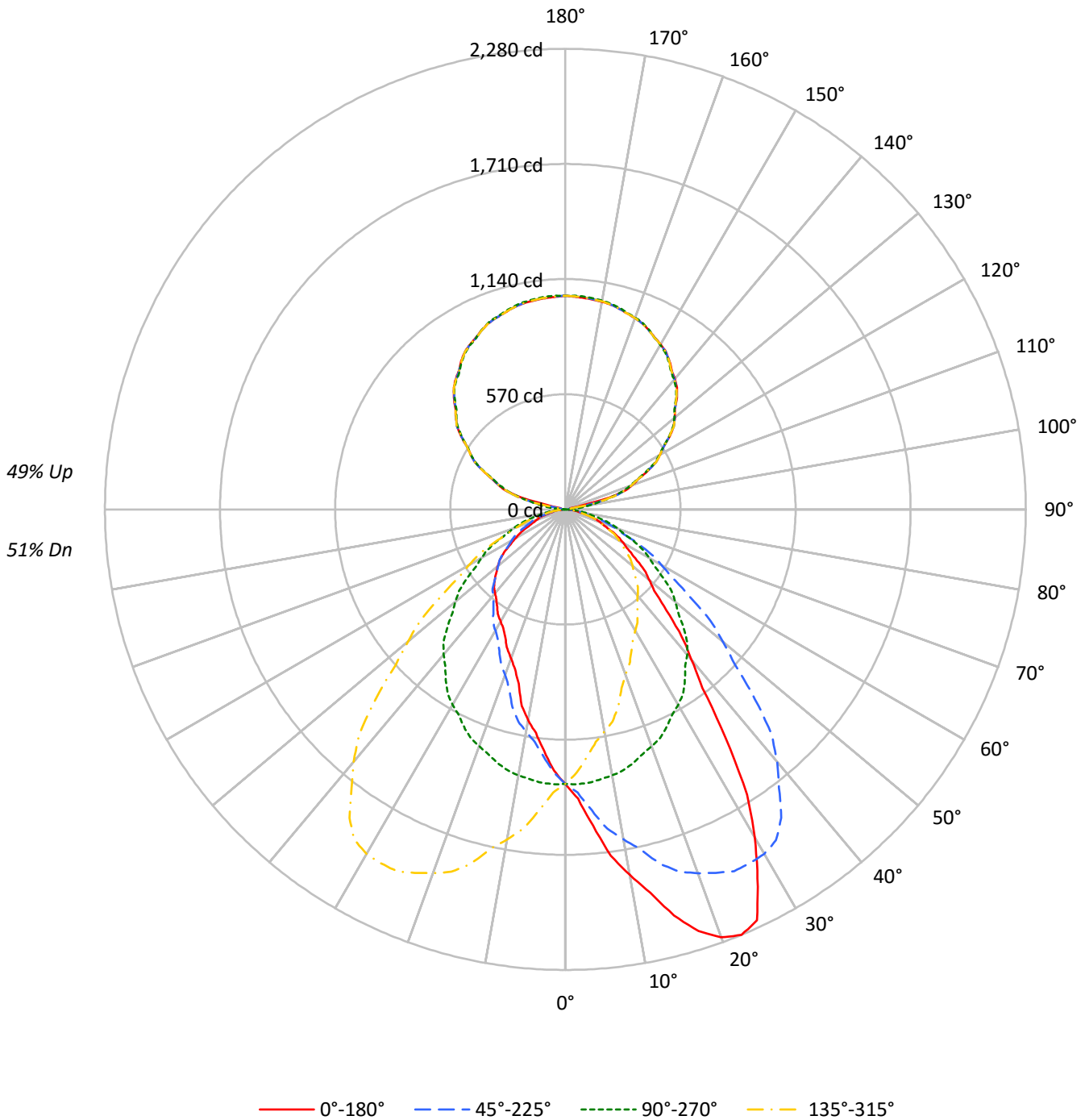
Input Watts (W): 60.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	39	36	32
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	33	30	28	25
6	64	52	44	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	59	47	40	34	55	44	37	32	38	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	34	29	35	30	26	30	26	23	26	22	20	18
9	51	39	32	27	48	37	30	26	32	27	23	28	24	21	24	20	18	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	22	19	16	14

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

	0°	90°	180°	270°
0°	10973	10973	10973	10973
5°	12729	11006	9728	11006
10°	15057	10958	8682	10958
15°	17393	10857	7460	10857
20°	19365	10717	6747	10717
25°	19991	10580	6263	10580
30°	17500	10414	5972	10414
35°	13623	10168	5797	10168
40°	10215	9886	5702	9886
45°	8066	9435	5651	9435
50°	6810	8913	5488	8913
55°	5935	8341	5195	8341
60°	5339	7745	4598	7745
65°	4707	7104	3954	7104
70°	4239	6437	3567	6437
75°	3553	5705	3041	5705
80°	3003	4863	2850	4863
85°	2538	3798	2538	3798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	2.0
10°-20°	397.3	5.9
20°-30°	621.4	9.3
30°-40°	690.7	10.3
40°-50°	612.9	9.1
50°-60°	477.6	7.1
60°-70°	312.7	4.7
70°-80°	153.8	2.3
80°-90°	41.0	0.6
90°-100°	36.2	0.5
100°-110°	230.6	3.4
110°-120°	441.1	6.6
120°-130°	559.9	8.3
130°-140°	599.1	8.9
140°-150°	560.2	8.3
150°-160°	451.8	6.7
160°-170°	291.4	4.3
170°-180°	100.4	1.5
0°-30°	1150.3	17.1
0°-40°	1841.1	27.4
0°-60°	2931.5	43.7
0°-90°	3438.9	51.3
90°-120°	707.8	10.5
90°-150°	2427.0	36.2
90°-180°	3271.0	48.8
0°-180°	6709.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1359	1359	1359	1359	1359	
5°	1571	1358	1200	1358	1571	159
15°	2081	1299	893	1299	2081	592
25°	2244	1188	703	1188	2244	996
35°	1382	1032	588	1032	1382	866
45°	706	826	495	826	706	560
55°	422	593	369	593	422	384
65°	246	372	207	372	246	248
75°	114	183	98	183	114	125
85°	27	41	27	41	27	31
90°	24	2	24	2	24	11
95°	23	44	23	44	23	18
105°	225	238	225	238	225	197
115°	448	444	448	444	448	443
125°	630	625	630	625	630	561
135°	780	775	780	775	780	601
145°	898	894	898	894	898	561
155°	979	980	979	980	979	451
165°	1029	1034	1029	1034	1029	291
175°	1051	1057	1051	1057	1051	100
180°	1057	1057	1057	1057	1057	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1433.7	1437.7	1433.7	1433.3	1428.9	1427.6	1425.8	1420.1	1409.6	1403.5	1404.8
5°	1570.7	1584.3	1576.7	1575.6	1563.5	1551.5	1543.8	1526.3	1507.7	1495.1	1484.6
7.5°	1729.0	1736.9	1732.1	1724.4	1704.9	1693.8	1676.1	1653.0	1619.6	1594.0	1570.7
10°	1836.8	1843.3	1841.2	1826.9	1812.7	1783.7	1767.2	1735.0	1692.7	1659.4	1628.1
12.5°	1942.8	1949.8	1930.5	1931.2	1904.2	1881.4	1855.3	1814.7	1765.9	1722.8	1683.8
15°	2081.1	2072.3	2072.3	2061.3	2031.2	1999.5	1972.6	1929.9	1868.5	1817.0	1762.8
17.5°	2189.3	2192.3	2187.8	2161.9	2138.3	2105.5	2056.3	2006.4	1949.5	1880.4	1825.0
20°	2254.1	2254.1	2249.2	2231.7	2201.0	2165.9	2112.8	2058.6	1986.3	1916.8	1854.3
22.5°	2280.4	2282.1	2276.3	2261.8	2234.3	2200.0	2154.8	2099.8	2025.3	1946.9	1869.6
25°	2244.3	2254.6	2255.7	2251.9	2243.7	2222.9	2184.0	2127.6	2060.8	1975.9	1892.6
27.5°	2060.5	2073.6	2085.1	2104.0	2129.2	2142.4	2144.1	2115.4	2057.1	1975.5	1891.7
30°	1877.3	1888.2	1923.9	1970.4	2006.5	2039.4	2067.9	2075.5	2042.7	1969.3	1881.1
32.5°	1674.0	1688.9	1724.5	1774.6	1834.8	1890.5	1954.4	1987.0	1986.2	1942.1	1860.5
35°	1382.3	1393.2	1426.1	1478.6	1550.9	1633.6	1735.0	1813.8	1867.4	1863.6	1813.8
37.5°	1114.8	1127.1	1160.3	1204.0	1274.1	1376.4	1474.5	1583.1	1682.4	1738.1	1721.4
40°	969.3	969.9	1002.2	1047.1	1112.8	1202.1	1308.8	1429.3	1539.9	1630.3	1647.8
42.5°	854.5	854.6	876.0	924.4	971.8	1055.7	1157.7	1277.3	1406.8	1511.2	1557.6
45°	706.5	711.4	728.9	758.0	795.2	866.3	947.9	1059.1	1204.3	1328.0	1405.3
47.5°	598.3	605.5	616.6	640.3	669.9	717.4	784.9	884.8	1002.8	1139.0	1248.9
50°	542.2	543.3	557.5	570.6	596.4	634.1	693.3	776.6	884.9	1015.9	1138.0
52.5°	494.0	493.8	502.3	519.0	539.9	569.3	617.1	692.8	789.0	906.3	1032.4
55°	421.7	424.5	431.0	444.1	460.0	480.9	518.6	575.6	651.2	751.4	865.9
57.5°	366.7	368.1	373.3	378.8	393.4	408.5	436.9	476.4	540.2	622.3	728.9
60°	330.7	331.3	333.0	341.2	352.7	366.9	386.1	419.5	473.2	548.2	632.6
62.5°	295.7	296.7	299.2	305.2	314.1	324.0	344.0	370.9	415.3	479.4	555.4
65°	246.4	247.0	250.8	253.0	260.2	268.9	283.7	301.7	332.4	386.1	443.6
67.5°	205.9	205.9	206.1	209.1	214.0	219.8	228.7	243.1	266.3	299.2	349.9
70°	179.6	179.6	180.7	182.4	185.1	190.0	195.0	205.9	222.9	249.7	288.6
72.5°	155.1	155.5	156.6	156.9	158.4	162.4	166.0	173.1	185.7	205.9	237.3
75°	113.9	115.6	118.3	120.5	123.2	122.7	126.5	130.9	134.8	146.8	164.9
77.5°	84.8	83.9	84.2	86.1	86.4	87.0	89.7	93.1	95.9	101.6	108.1
80°	64.6	64.6	66.2	66.8	66.2	66.8	69.6	71.2	72.3	74.5	80.5
82.5°	48.9	49.7	49.2	49.7	50.1	50.6	52.9	53.2	54.3	55.2	57.8
85°	27.4	28.0	28.4	27.4	27.4	27.4	28.4	29.0	30.1	29.5	30.7
87.5°	14.4	13.9	14.3	14.2	14.6	13.9	14.2	14.9	13.8	14.0	13.7
90°	23.7	23.4	23.1	22.7	22.3	21.6	20.6	19.5	18.5	17.4	16.0
92.5°	21.9	21.8	21.7	21.6	21.5	21.0	20.0	18.9	17.8	16.8	15.4
95°	22.9	22.7	22.6	22.4	22.3	21.6	20.6	19.5	18.5	17.4	17.2
97.5°	22.2	21.9	21.8	21.6	21.5	21.3	21.2	21.1	21.0	20.9	40.5
100°	22.2	21.9	21.8	21.6	21.5	22.8	25.8	28.8	31.8	34.8	59.0
102.5°	22.8	22.7	22.7	22.7	22.7	38.7	71.0	103.2	135.4	167.6	170.8
105°	225.4	231.7	238.1	244.4	250.7	253.0	251.4	249.9	248.3	246.8	245.9
107.5°	314.1	313.5	312.8	312.1	311.4	310.7	310.0	309.2	308.4	307.6	306.4
110°	352.7	352.2	351.6	351.1	350.6	350.1	349.8	349.4	349.1	348.7	347.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	391.3	390.6	390.0	389.3	388.6	388.3	388.4	388.5	388.6	388.6	388.1
115°	447.6	447.6	447.6	447.6	447.6	447.4	447.1	446.7	446.4	446.0	446.2
117.5°	504.9	504.9	505.0	505.1	505.2	505.2	505.3	505.3	505.4	505.5	505.1
120°	540.9	541.3	541.6	541.9	542.3	542.3	541.9	541.6	541.3	540.9	541.1
122.5°	576.3	576.7	577.0	577.4	577.7	577.8	577.6	577.4	577.2	576.9	576.7
125°	629.5	629.3	629.2	629.0	628.8	628.4	627.9	627.4	626.9	626.3	626.7
127.5°	676.1	676.3	676.4	676.6	676.7	676.8	676.9	677.1	677.2	677.2	676.4
130°	707.8	707.8	707.8	707.8	707.8	707.7	707.5	707.3	707.2	707.0	706.5
132.5°	736.9	737.0	737.1	737.3	737.4	737.4	737.3	737.0	736.9	736.7	736.0
135°	780.5	780.1	779.8	779.5	779.1	778.8	778.4	778.1	777.7	777.4	776.7
137.5°	817.8	817.9	818.1	818.2	818.2	818.2	817.8	817.4	817.0	816.6	815.8
140°	843.8	843.6	843.4	843.3	843.1	842.7	842.2	841.7	841.1	840.7	840.3
142.5°	865.3	865.3	865.2	865.2	865.1	865.0	864.6	864.2	863.8	863.4	863.2
145°	898.3	898.0	897.6	897.3	897.0	896.7	896.5	896.4	896.2	896.0	896.0
147.5°	925.7	925.6	925.3	925.2	925.0	924.9	924.7	924.6	924.5	924.3	924.5
150°	943.4	943.3	943.1	942.9	942.7	942.6	942.6	942.6	942.6	942.6	942.9
152.5°	958.6	958.7	958.9	958.9	959.0	958.9	958.7	958.4	958.1	957.8	958.1
155°	979.1	979.5	980.1	980.6	981.1	981.0	980.3	979.6	978.9	978.3	978.7
157.5°	996.1	997.0	997.9	998.9	999.7	999.7	998.9	997.9	997.0	996.1	996.7
160°	1007.5	1008.5	1009.6	1010.7	1011.7	1011.7	1010.7	1009.6	1008.5	1007.5	1007.7
162.5°	1016.4	1017.6	1018.7	1019.9	1021.1	1021.2	1020.2	1019.1	1018.0	1017.0	1017.2
165°	1028.8	1030.4	1032.0	1033.6	1035.1	1035.2	1033.9	1032.5	1031.0	1029.6	1029.6
167.5°	1038.2	1039.9	1041.7	1043.5	1045.2	1045.3	1043.8	1042.2	1040.7	1039.1	1039.3
170°	1043.9	1045.6	1047.4	1049.2	1050.9	1051.1	1049.6	1048.3	1046.9	1045.4	1045.3
172.5°	1047.0	1048.9	1050.8	1052.7	1054.6	1054.9	1053.4	1052.1	1050.7	1049.2	1049.1
175°	1051.0	1053.1	1055.2	1057.3	1059.4	1059.7	1058.1	1056.5	1054.9	1053.4	1053.2
177.5°	1053.5	1055.2	1056.9	1058.6	1060.3	1060.6	1059.4	1058.3	1057.2	1056.1	1055.7
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1400.4	1394.3	1391.2	1384.2	1375.9	1371.5	1367.5	1361.8	1354.4	1346.6	1340.8
5°	1471.5	1458.3	1441.9	1422.2	1404.7	1387.7	1372.9	1358.1	1341.2	1323.7	1306.2
7.5°	1544.4	1518.6	1490.6	1458.3	1427.0	1398.4	1372.1	1346.9	1318.3	1292.8	1269.6
10°	1595.3	1560.2	1521.3	1480.3	1439.2	1403.6	1368.6	1336.8	1301.7	1270.5	1244.2
12.5°	1636.5	1595.3	1548.5	1497.4	1448.0	1404.9	1364.6	1323.2	1283.3	1249.5	1214.4
15°	1704.8	1648.4	1585.4	1524.1	1460.0	1401.4	1347.2	1299.0	1253.5	1205.9	1172.5
17.5°	1751.8	1684.9	1608.3	1534.6	1458.9	1389.8	1327.2	1269.9	1217.4	1168.8	1129.0
20°	1779.8	1705.9	1621.0	1537.2	1452.3	1378.4	1311.1	1247.5	1193.3	1140.7	1099.6
22.5°	1795.6	1713.8	1621.0	1533.3	1445.3	1365.2	1291.3	1225.2	1166.2	1113.6	1068.1
25°	1800.6	1713.0	1618.3	1517.5	1421.1	1336.3	1259.6	1187.8	1122.1	1069.5	1021.4
27.5°	1793.7	1690.4	1593.4	1490.0	1390.6	1301.1	1220.6	1145.3	1079.4	1023.0	973.6
30°	1783.1	1672.5	1568.4	1461.1	1360.3	1274.4	1189.5	1117.2	1048.7	990.1	940.3
32.5°	1760.3	1650.6	1538.7	1428.7	1326.6	1238.0	1157.5	1084.7	1017.6	957.7	904.8
35°	1715.2	1604.0	1482.5	1369.7	1269.4	1177.4	1101.8	1031.7	967.7	903.6	847.7
37.5°	1655.7	1542.1	1421.3	1297.7	1197.4	1110.5	1041.2	975.3	912.8	854.3	792.4
40°	1599.7	1496.1	1371.3	1248.6	1145.7	1061.8	997.8	938.1	875.1	817.1	755.2
42.5°	1531.8	1443.6	1317.4	1194.3	1092.7	1011.9	952.2	893.8	836.5	780.3	715.7
45°	1418.4	1351.5	1233.3	1115.0	1012.6	932.6	877.9	826.4	776.0	722.3	661.6
47.5°	1288.5	1243.3	1141.1	1020.0	925.3	853.3	800.4	758.4	715.7	662.1	608.8
50°	1198.3	1169.2	1070.6	960.0	869.7	803.4	749.2	709.7	674.1	622.7	575.0
52.5°	1101.8	1086.4	1003.1	897.4	810.1	745.1	698.8	663.3	627.2	584.6	540.0
55°	955.1	963.3	892.6	801.2	719.1	664.3	622.1	592.6	561.9	525.8	491.2
57.5°	805.0	835.0	787.6	707.3	630.3	579.7	548.0	523.1	497.3	467.4	437.9
60°	715.2	740.4	713.6	642.9	575.6	528.5	498.9	479.7	454.0	426.6	404.2
62.5°	627.6	654.5	638.7	581.6	519.0	478.6	452.5	434.6	415.4	391.6	368.2
65°	517.5	535.0	527.4	488.0	443.6	409.1	385.0	371.9	354.3	336.8	316.0
67.5°	396.4	430.2	425.7	404.8	366.5	339.5	323.8	312.1	296.2	283.1	269.0
70°	325.8	357.0	356.5	339.5	318.7	293.5	282.6	272.7	258.5	245.9	234.4
72.5°	266.7	295.3	299.5	286.5	272.3	253.3	242.7	235.9	222.1	213.5	204.1
75°	186.7	207.6	213.0	213.0	206.4	196.6	187.3	182.9	173.1	165.4	159.9
77.5°	122.5	135.6	144.2	146.1	147.1	143.8	136.2	133.1	125.5	122.8	117.6
80°	86.5	95.3	105.1	108.4	111.1	110.1	106.8	104.6	97.5	94.7	92.5
82.5°	59.8	64.6	72.7	79.9	79.2	82.1	79.2	77.5	72.1	71.1	68.9
85°	31.2	31.8	32.9	37.8	40.6	41.6	42.1	41.0	39.5	39.5	35.6
87.5°	13.5	12.7	13.3	13.0	13.0	14.4	15.3	15.4	14.4	13.5	12.6
90°	14.6	13.2	11.8	10.1	8.2	6.3	4.3	2.4	4.3	6.3	8.2
92.5°	13.9	12.5	11.2	10.4	10.3	10.1	10.1	10.0	10.1	10.1	10.3
95°	17.0	16.9	16.7	19.6	25.6	31.5	37.5	43.5	37.5	31.5	25.6
97.5°	60.1	79.7	99.3	107.3	103.5	99.8	96.1	92.4	96.1	99.8	103.5
100°	83.3	107.6	131.8	142.4	139.2	136.0	132.8	129.7	132.8	136.0	139.2
102.5°	174.0	177.1	180.3	180.7	178.4	176.1	173.8	171.4	173.8	176.1	178.4
105°	244.9	244.1	243.2	242.2	241.2	240.1	239.1	238.1	239.1	240.1	241.2
107.5°	305.2	304.0	302.9	302.0	301.4	301.0	300.4	299.8	300.4	301.0	301.4
110°	346.7	345.5	344.5	343.7	343.2	342.7	342.1	341.7	342.1	342.7	343.2





TEST NUMBER: P332973-927

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	387.6	387.1	386.7	386.0	385.0	384.0	383.1	382.1	383.1	384.0	385.0
115°	446.4	446.6	446.7	446.6	446.0	445.5	445.0	444.4	445.0	445.5	446.0
117.5°	504.7	504.3	503.9	503.4	502.7	502.0	501.3	500.6	501.3	502.0	502.7
120°	541.3	541.5	541.6	541.4	540.7	540.0	539.2	538.5	539.2	540.0	540.7
122.5°	576.5	576.2	576.0	575.7	575.2	574.8	574.4	573.9	574.4	574.8	575.2
125°	627.0	627.4	627.7	627.6	626.9	626.1	625.4	624.7	625.4	626.1	626.9
127.5°	675.7	674.9	674.0	673.5	673.4	673.2	673.0	672.8	673.0	673.2	673.4
130°	705.9	705.4	704.9	704.5	704.3	704.2	704.0	703.9	704.0	704.2	704.3
132.5°	735.4	734.7	734.0	733.6	733.2	732.9	732.6	732.3	732.6	732.9	733.2
135°	775.9	775.2	774.5	774.3	774.4	774.7	774.8	775.0	774.8	774.7	774.4
137.5°	815.1	814.3	813.5	813.1	813.0	812.9	812.9	812.8	812.9	812.9	813.0
140°	840.0	839.6	839.2	838.8	838.5	838.2	837.8	837.5	837.8	838.2	838.5
142.5°	863.0	862.8	862.5	862.1	861.5	860.9	860.2	859.6	860.2	860.9	861.5
145°	896.0	896.0	896.0	895.7	895.2	894.7	894.1	893.6	894.1	894.7	895.2
147.5°	924.6	924.8	925.0	924.6	923.6	922.7	921.6	920.7	921.6	922.7	923.6
150°	943.0	943.2	943.3	943.1	942.4	941.7	941.0	940.2	941.0	941.7	942.4
152.5°	958.5	958.8	959.1	958.9	958.4	957.8	957.3	956.7	957.3	957.8	958.4
155°	979.3	979.9	980.3	980.5	980.3	980.2	980.0	979.9	980.0	980.2	980.3
157.5°	997.3	997.9	998.5	998.9	998.9	999.0	999.2	999.3	999.2	999.0	998.9
160°	1007.8	1008.1	1008.2	1008.5	1009.1	1009.6	1010.1	1010.7	1010.1	1009.6	1009.1
162.5°	1017.3	1017.5	1017.7	1018.1	1018.7	1019.5	1020.1	1020.8	1020.1	1019.5	1018.7
165°	1029.6	1029.6	1029.6	1030.1	1030.9	1031.8	1032.7	1033.6	1032.7	1031.8	1030.9
167.5°	1039.3	1039.4	1039.6	1040.1	1041.0	1041.9	1042.8	1043.7	1042.8	1041.9	1041.0
170°	1045.1	1044.9	1044.7	1045.2	1046.2	1047.3	1048.4	1049.4	1048.4	1047.3	1046.2
172.5°	1048.9	1048.7	1048.5	1049.0	1050.0	1051.1	1052.2	1053.2	1052.2	1051.1	1050.0
175°	1053.0	1052.8	1052.7	1053.1	1054.2	1055.2	1056.3	1057.3	1056.3	1055.2	1054.2
177.5°	1055.5	1055.2	1054.9	1055.3	1056.3	1057.2	1058.2	1059.2	1058.2	1057.2	1056.3
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



TEST NUMBER: P332973-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1334.7	1330.3	1324.6	1318.0	1310.2	1303.1	1300.1	1302.7	1304.0	1300.5	1300.1
5°	1294.1	1280.4	1269.4	1253.0	1239.8	1228.9	1221.2	1218.0	1219.0	1210.3	1208.1
7.5°	1248.4	1232.2	1214.3	1194.7	1176.5	1160.5	1152.0	1147.4	1138.1	1134.2	1127.5
10°	1219.0	1197.1	1179.6	1156.6	1135.8	1116.7	1107.3	1099.6	1090.4	1086.0	1076.7
12.5°	1188.8	1163.4	1144.1	1120.2	1099.0	1075.9	1067.0	1052.8	1038.2	1029.0	1017.1
15°	1146.2	1115.6	1092.0	1063.5	1038.3	1012.0	988.5	962.2	952.4	931.5	919.5
17.5°	1096.4	1065.2	1036.1	997.9	959.0	926.4	901.3	876.1	861.0	847.7	841.6
20°	1063.5	1035.1	994.5	950.1	906.9	870.8	850.5	834.1	817.6	808.3	801.8
22.5°	1032.4	996.0	949.0	901.1	857.9	829.6	812.4	795.5	782.1	773.2	764.5
25°	980.2	932.6	882.8	828.1	798.4	773.8	755.2	741.5	733.3	721.8	717.4
27.5°	926.7	869.0	814.0	777.2	746.4	723.9	707.7	697.4	687.0	679.6	673.9
30°	885.5	827.0	777.7	742.6	711.4	692.8	679.6	667.6	659.3	653.3	649.0
32.5°	844.8	786.2	744.8	707.1	682.5	664.3	650.3	641.3	634.9	627.0	624.4
35°	785.8	733.8	697.7	663.8	638.6	622.1	611.2	601.8	596.4	594.2	592.6
37.5°	729.2	686.7	647.8	620.0	597.5	584.6	571.6	567.0	563.3	559.4	561.1
40°	693.3	653.3	618.9	589.2	571.2	557.0	549.3	543.8	540.5	540.5	540.5
42.5°	662.2	623.1	589.5	563.0	544.9	532.8	524.3	519.7	518.6	518.2	520.8
45°	613.9	577.7	543.8	521.9	506.6	494.5	489.6	485.8	485.8	488.0	488.5
47.5°	566.0	532.2	504.9	480.4	466.4	458.8	454.6	452.6	452.8	455.0	457.5
50°	536.7	503.3	476.4	454.6	441.4	434.3	430.5	429.4	430.5	430.5	434.3
52.5°	504.7	474.8	448.4	430.0	415.1	408.4	406.3	404.8	405.4	407.3	408.8
55°	457.8	431.0	405.8	388.2	377.3	373.0	368.0	368.5	367.5	368.5	368.5
57.5°	410.8	386.7	363.3	349.4	339.8	333.4	328.0	329.5	328.0	327.7	326.9
60°	380.6	354.3	335.7	323.1	312.1	306.7	301.7	302.9	301.2	300.1	297.9
62.5°	347.8	325.8	308.1	296.0	287.2	280.8	275.9	274.8	271.0	267.3	262.4
65°	300.1	282.0	266.2	254.7	246.4	241.5	237.7	234.4	226.2	217.4	213.0
67.5°	253.8	240.7	225.9	216.2	209.5	203.0	195.7	190.1	182.4	177.7	174.9
70°	223.9	211.4	198.8	189.5	182.4	176.3	168.1	164.3	158.8	156.6	153.9
72.5°	195.5	183.8	172.1	163.7	156.1	151.4	144.9	141.1	138.6	137.8	135.1
75°	152.3	142.9	134.2	126.5	120.5	117.2	114.5	111.7	110.6	105.7	103.0
77.5°	111.1	105.0	99.4	94.0	89.7	87.5	82.2	79.1	77.2	74.9	74.4
80°	86.5	82.1	76.7	73.4	67.3	65.2	63.0	62.4	61.9	61.3	60.8
82.5°	65.0	60.7	55.2	53.2	51.6	50.3	49.0	48.4	47.8	48.2	48.1
85°	32.9	30.7	30.7	30.1	29.5	29.0	28.4	28.4	28.0	28.4	28.0
87.5°	13.0	12.8	13.2	12.5	13.3	13.5	13.3	13.5	14.2	13.5	13.6
90°	10.1	11.8	13.2	14.6	16.0	17.4	18.5	19.5	20.6	21.6	22.3
92.5°	10.4	11.2	12.5	13.9	15.4	16.8	17.8	18.9	20.0	21.0	21.5
95°	19.6	16.7	16.9	17.0	17.2	17.4	18.5	19.5	20.6	21.6	22.3
97.5°	107.3	99.3	79.7	60.1	40.5	20.9	21.0	21.1	21.2	21.3	21.5
100°	142.4	131.8	107.6	83.3	59.0	34.8	31.8	28.8	25.8	22.8	21.5
102.5°	180.7	180.3	177.1	174.0	170.8	167.6	135.4	103.2	71.0	38.7	22.7
105°	242.2	243.2	244.1	244.9	245.9	246.8	248.3	249.9	251.4	253.0	250.7
107.5°	302.0	302.9	304.0	305.2	306.4	307.6	308.4	309.2	310.0	310.7	311.4
110°	343.7	344.5	345.5	346.7	347.7	348.7	349.1	349.4	349.8	350.1	350.6



TEST NUMBER: P332973-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	386.0	386.7	387.1	387.6	388.1	388.6	388.6	388.5	388.4	388.3	388.6
115°	446.6	446.7	446.6	446.4	446.2	446.0	446.4	446.7	447.1	447.4	447.6
117.5°	503.4	503.9	504.3	504.7	505.1	505.5	505.4	505.3	505.3	505.2	505.2
120°	541.4	541.6	541.5	541.3	541.1	540.9	541.3	541.6	541.9	542.3	542.3
122.5°	575.7	576.0	576.2	576.5	576.7	576.9	577.2	577.4	577.6	577.8	577.7
125°	627.6	627.7	627.4	627.0	626.7	626.3	626.9	627.4	627.9	628.4	628.8
127.5°	673.5	674.0	674.9	675.7	676.4	677.2	677.2	677.1	676.9	676.8	676.7
130°	704.5	704.9	705.4	705.9	706.5	707.0	707.2	707.3	707.5	707.7	707.8
132.5°	733.6	734.0	734.7	735.4	736.0	736.7	736.9	737.0	737.3	737.4	737.4
135°	774.3	774.5	775.2	775.9	776.7	777.4	777.7	778.1	778.4	778.8	779.1
137.5°	813.1	813.5	814.3	815.1	815.8	816.6	817.0	817.4	817.8	818.2	818.2
140°	838.8	839.2	839.6	840.0	840.3	840.7	841.1	841.7	842.2	842.7	843.1
142.5°	862.1	862.5	862.8	863.0	863.2	863.4	863.8	864.2	864.6	865.0	865.1
145°	895.7	896.0	896.0	896.0	896.0	896.0	896.2	896.4	896.5	896.7	897.0
147.5°	924.6	925.0	924.8	924.6	924.5	924.3	924.5	924.6	924.7	924.9	925.0
150°	943.1	943.3	943.2	943.0	942.9	942.6	942.6	942.6	942.6	942.6	942.7
152.5°	958.9	959.1	958.8	958.5	958.1	957.8	958.1	958.4	958.7	958.9	959.0
155°	980.5	980.3	979.9	979.3	978.7	978.3	978.9	979.6	980.3	981.0	981.1
157.5°	998.9	998.5	997.9	997.3	996.7	996.1	997.0	997.9	998.9	999.7	999.7
160°	1008.5	1008.2	1008.1	1007.8	1007.7	1007.5	1008.5	1009.6	1010.7	1011.7	1011.7
162.5°	1018.1	1017.7	1017.5	1017.3	1017.2	1017.0	1018.0	1019.1	1020.2	1021.2	1021.1
165°	1030.1	1029.6	1029.6	1029.6	1029.6	1029.6	1031.0	1032.5	1033.9	1035.2	1035.1
167.5°	1040.1	1039.6	1039.4	1039.3	1039.3	1039.1	1040.7	1042.2	1043.8	1045.3	1045.2
170°	1045.2	1044.7	1044.9	1045.1	1045.3	1045.4	1046.9	1048.3	1049.6	1051.1	1050.9
172.5°	1049.0	1048.5	1048.7	1048.9	1049.1	1049.2	1050.7	1052.1	1053.4	1054.9	1054.6
175°	1053.1	1052.7	1052.8	1053.0	1053.2	1053.4	1054.9	1056.5	1058.1	1059.7	1059.4
177.5°	1055.3	1054.9	1055.2	1055.5	1055.7	1056.1	1057.2	1058.3	1059.4	1060.6	1060.3
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



TEST NUMBER: P332973-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1297.4	1298.3	1295.3	1294.4	1295.3	1298.3	1297.4	1300.1	1300.5	1304.0	1302.7
5°	1203.7	1202.6	1199.8	1200.4	1199.8	1202.6	1203.7	1208.1	1210.3	1219.0	1218.0
7.5°	1123.6	1119.3	1120.5	1116.1	1120.5	1119.3	1123.6	1127.5	1134.2	1138.1	1147.4
10°	1074.4	1068.4	1063.5	1059.1	1063.5	1068.4	1074.4	1076.7	1086.0	1090.4	1099.6
12.5°	1007.4	1002.3	995.6	997.0	995.6	1002.3	1007.4	1017.1	1029.0	1038.2	1052.8
15°	912.4	904.1	891.0	892.6	891.0	904.1	912.4	919.5	931.5	952.4	962.2
17.5°	831.9	831.9	825.9	827.4	825.9	831.9	831.9	841.6	847.7	861.0	876.1
20°	790.3	786.4	787.0	785.3	787.0	786.4	790.3	801.8	808.3	817.6	834.1
22.5°	761.4	756.6	752.8	749.4	752.8	756.6	761.4	764.5	773.2	782.1	795.5
25°	712.5	709.2	704.3	703.1	704.3	709.2	712.5	717.4	721.8	733.3	741.5
27.5°	669.6	668.9	666.9	664.4	666.9	668.9	669.6	673.9	679.6	687.0	697.4
30°	644.6	643.5	642.4	640.7	642.4	643.5	644.6	649.0	653.3	659.3	667.6
32.5°	622.3	621.5	620.4	620.6	620.4	621.5	622.3	624.4	627.0	634.9	641.3
35°	590.3	589.8	588.7	588.2	588.7	589.8	590.3	592.6	594.2	596.4	601.8
37.5°	560.5	562.0	561.3	561.2	561.3	562.0	560.5	561.1	559.4	563.3	567.0
40°	540.0	540.5	541.6	541.1	541.6	540.5	540.0	540.5	540.5	540.5	543.8
42.5°	522.9	523.0	524.5	522.7	524.5	523.0	522.9	520.8	518.2	518.6	519.7
45°	492.3	495.6	495.0	495.0	495.0	495.6	492.3	488.5	488.0	485.8	485.8
47.5°	458.9	461.8	462.6	462.4	462.6	461.8	458.9	457.5	455.0	452.8	452.6
50°	437.0	435.9	437.6	437.0	437.6	435.9	437.0	434.3	430.5	430.5	429.4
52.5°	410.3	410.5	410.4	409.9	410.4	410.5	410.3	408.8	407.3	405.4	404.8
55°	369.1	369.6	368.5	369.1	368.5	369.6	369.1	368.5	368.5	367.5	368.5
57.5°	324.4	321.8	322.9	321.5	322.9	321.8	324.4	326.9	327.7	328.0	329.5
60°	292.5	288.0	286.9	284.8	286.9	288.0	292.5	297.9	300.1	301.2	302.9
62.5°	256.5	253.4	249.7	251.4	249.7	253.4	256.5	262.4	267.3	271.0	274.8
65°	208.7	206.4	204.8	207.0	204.8	206.4	208.7	213.0	217.4	226.2	234.4
67.5°	172.7	171.5	171.5	170.4	171.5	171.5	172.7	174.9	177.7	182.4	190.1
70°	153.9	152.3	152.3	151.1	152.3	152.3	153.9	153.9	156.6	158.8	164.3
72.5°	134.6	132.9	133.4	132.8	133.4	132.9	134.6	135.1	137.8	138.6	141.1
75°	99.7	97.0	97.0	97.5	97.0	97.0	99.7	103.0	105.7	110.6	111.7
77.5°	74.4	73.8	74.6	73.6	74.6	73.8	74.4	74.4	74.9	77.2	79.1
80°	60.8	60.2	59.7	61.3	59.7	60.2	60.8	60.8	61.3	61.9	62.4
82.5°	47.2	47.1	47.0	49.0	47.0	47.1	47.2	48.1	48.2	47.8	48.4
85°	28.4	27.4	28.4	27.4	28.4	27.4	28.4	28.0	28.4	28.0	28.4
87.5°	14.6	14.3	13.9	14.4	13.9	14.3	14.6	13.6	13.5	14.2	13.5
90°	22.7	23.1	23.4	23.7	23.4	23.1	22.7	22.3	21.6	20.6	19.5
92.5°	21.6	21.7	21.8	21.9	21.8	21.7	21.6	21.5	21.0	20.0	18.9
95°	22.4	22.6	22.7	22.9	22.7	22.6	22.4	22.3	21.6	20.6	19.5
97.5°	21.6	21.8	21.9	22.2	21.9	21.8	21.6	21.5	21.3	21.2	21.1
100°	21.6	21.8	21.9	22.2	21.9	21.8	21.6	21.5	22.8	25.8	28.8
102.5°	22.7	22.7	22.7	22.8	22.7	22.7	22.7	22.7	38.7	71.0	103.2
105°	244.4	238.1	231.7	225.4	231.7	238.1	244.4	250.7	253.0	251.4	249.9
107.5°	312.1	312.8	313.5	314.1	313.5	312.8	312.1	311.4	310.7	310.0	309.2
110°	351.1	351.6	352.2	352.7	352.2	351.6	351.1	350.6	350.1	349.8	349.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	389.3	390.0	390.6	391.3	390.6	390.0	389.3	388.6	388.3	388.4	388.5
115°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.4	447.1	446.7
117.5°	505.1	505.0	504.9	504.9	504.9	505.0	505.1	505.2	505.2	505.3	505.3
120°	541.9	541.6	541.3	540.9	541.3	541.6	541.9	542.3	542.3	541.9	541.6
122.5°	577.4	577.0	576.7	576.3	576.7	577.0	577.4	577.7	577.8	577.6	577.4
125°	629.0	629.2	629.3	629.5	629.3	629.2	629.0	628.8	628.4	627.9	627.4
127.5°	676.6	676.4	676.3	676.1	676.3	676.4	676.6	676.7	676.8	676.9	677.1
130°	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.8	707.7	707.5	707.3
132.5°	737.3	737.1	737.0	736.9	737.0	737.1	737.3	737.4	737.4	737.3	737.0
135°	779.5	779.8	780.1	780.5	780.1	779.8	779.5	779.1	778.8	778.4	778.1
137.5°	818.2	818.1	817.9	817.8	817.9	818.1	818.2	818.2	818.2	817.8	817.4
140°	843.3	843.4	843.6	843.8	843.6	843.4	843.3	843.1	842.7	842.2	841.7
142.5°	865.2	865.2	865.3	865.3	865.3	865.2	865.2	865.1	865.0	864.6	864.2
145°	897.3	897.6	898.0	898.3	898.0	897.6	897.3	897.0	896.7	896.5	896.4
147.5°	925.2	925.3	925.6	925.7	925.6	925.3	925.2	925.0	924.9	924.7	924.6
150°	942.9	943.1	943.3	943.4	943.3	943.1	942.9	942.7	942.6	942.6	942.6
152.5°	958.9	958.9	958.7	958.6	958.7	958.9	958.9	959.0	958.9	958.7	958.4
155°	980.6	980.1	979.5	979.1	979.5	980.1	980.6	981.1	981.0	980.3	979.6
157.5°	998.9	997.9	997.0	996.1	997.0	997.9	998.9	999.7	999.7	998.9	997.9
160°	1010.7	1009.6	1008.5	1007.5	1008.5	1009.6	1010.7	1011.7	1011.7	1010.7	1009.6
162.5°	1019.9	1018.7	1017.6	1016.4	1017.6	1018.7	1019.9	1021.1	1021.2	1020.2	1019.1
165°	1033.6	1032.0	1030.4	1028.8	1030.4	1032.0	1033.6	1035.1	1035.2	1033.9	1032.5
167.5°	1043.5	1041.7	1039.9	1038.2	1039.9	1041.7	1043.5	1045.2	1045.3	1043.8	1042.2
170°	1049.2	1047.4	1045.6	1043.9	1045.6	1047.4	1049.2	1050.9	1051.1	1049.6	1048.3
172.5°	1052.7	1050.8	1048.9	1047.0	1048.9	1050.8	1052.7	1054.6	1054.9	1053.4	1052.1
175°	1057.3	1055.2	1053.1	1051.0	1053.1	1055.2	1057.3	1059.4	1059.7	1058.1	1056.5
177.5°	1058.6	1056.9	1055.2	1053.5	1055.2	1056.9	1058.6	1060.3	1060.6	1059.4	1058.3
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1300.1	1303.1	1310.2	1318.0	1324.6	1330.3	1334.7	1340.8	1346.6	1354.4	1361.8
5°	1221.2	1228.9	1239.8	1253.0	1269.4	1280.4	1294.1	1306.2	1323.7	1341.2	1358.1
7.5°	1152.0	1160.5	1176.5	1194.7	1214.3	1232.2	1248.4	1269.6	1292.8	1318.3	1346.9
10°	1107.3	1116.7	1135.8	1156.6	1179.6	1197.1	1219.0	1244.2	1270.5	1301.7	1336.8
12.5°	1067.0	1075.9	1099.0	1120.2	1144.1	1163.4	1188.8	1214.4	1249.5	1283.3	1323.2
15°	988.5	1012.0	1038.3	1063.5	1092.0	1115.6	1146.2	1172.5	1205.9	1253.5	1299.0
17.5°	901.3	926.4	959.0	997.9	1036.1	1065.2	1096.4	1129.0	1168.8	1217.4	1269.9
20°	850.5	870.8	906.9	950.1	994.5	1035.1	1063.5	1099.6	1140.7	1193.3	1247.5
22.5°	812.4	829.6	857.9	901.1	949.0	996.0	1032.4	1068.1	1113.6	1166.2	1225.2
25°	755.2	773.8	798.4	828.1	882.8	932.6	980.2	1021.4	1069.5	1122.1	1187.8
27.5°	707.7	723.9	746.4	777.2	814.0	869.0	926.7	973.6	1023.0	1079.4	1145.3
30°	679.6	692.8	711.4	742.6	777.7	827.0	885.5	940.3	990.1	1048.7	1117.2
32.5°	650.3	664.3	682.5	707.1	744.8	786.2	844.8	904.8	957.7	1017.6	1084.7
35°	611.2	622.1	638.6	663.8	697.7	733.8	785.8	847.7	903.6	967.7	1031.7
37.5°	571.6	584.6	597.5	620.0	647.8	686.7	729.2	792.4	854.3	912.8	975.3
40°	549.3	557.0	571.2	589.2	618.9	653.3	693.3	755.2	817.1	875.1	938.1
42.5°	524.3	532.8	544.9	563.0	589.5	623.1	662.2	715.7	780.3	836.5	893.8
45°	489.6	494.5	506.6	521.9	543.8	577.7	613.9	661.6	722.3	776.0	826.4
47.5°	454.6	458.8	466.4	480.4	504.9	532.2	566.0	608.8	662.1	715.7	758.4
50°	430.5	434.3	441.4	454.6	476.4	503.3	536.7	575.0	622.7	674.1	709.7
52.5°	406.3	408.4	415.1	430.0	448.4	474.8	504.7	540.0	584.6	627.2	663.3
55°	368.0	373.0	377.3	388.2	405.8	431.0	457.8	491.2	525.8	561.9	592.6
57.5°	328.0	333.4	339.8	349.4	363.3	386.7	410.8	437.9	467.4	497.3	523.1
60°	301.7	306.7	312.1	323.1	335.7	354.3	380.6	404.2	426.6	454.0	479.7
62.5°	275.9	280.8	287.2	296.0	308.1	325.8	347.8	368.2	391.6	415.4	434.6
65°	237.7	241.5	246.4	254.7	266.2	282.0	300.1	316.0	336.8	354.3	371.9
67.5°	195.7	203.0	209.5	216.2	225.9	240.7	253.8	269.0	283.1	296.2	312.1
70°	168.1	176.3	182.4	189.5	198.8	211.4	223.9	234.4	245.9	258.5	272.7
72.5°	144.9	151.4	156.1	163.7	172.1	183.8	195.5	204.1	213.5	222.1	235.9
75°	114.5	117.2	120.5	126.5	134.2	142.9	152.3	159.9	165.4	173.1	182.9
77.5°	82.2	87.5	89.7	94.0	99.4	105.0	111.1	117.6	122.8	125.5	133.1
80°	63.0	65.2	67.3	73.4	76.7	82.1	86.5	92.5	94.7	97.5	104.6
82.5°	49.0	50.3	51.6	53.2	55.2	60.7	65.0	68.9	71.1	72.1	77.5
85°	28.4	29.0	29.5	30.1	30.7	30.7	32.9	35.6	39.5	39.5	41.0
87.5°	13.3	13.5	13.3	12.5	13.2	12.8	13.0	12.6	13.5	14.4	15.4
90°	18.5	17.4	16.0	14.6	13.2	11.8	10.1	8.2	6.3	4.3	2.4
92.5°	17.8	16.8	15.4	13.9	12.5	11.2	10.4	10.3	10.1	10.1	10.0
95°	18.5	17.4	17.2	17.0	16.9	16.7	19.6	25.6	31.5	37.5	43.5
97.5°	21.0	20.9	40.5	60.1	79.7	99.3	107.3	103.5	99.8	96.1	92.4
100°	31.8	34.8	59.0	83.3	107.6	131.8	142.4	139.2	136.0	132.8	129.7
102.5°	135.4	167.6	170.8	174.0	177.1	180.3	180.7	178.4	176.1	173.8	171.4
105°	248.3	246.8	245.9	244.9	244.1	243.2	242.2	241.2	240.1	239.1	238.1
107.5°	308.4	307.6	306.4	305.2	304.0	302.9	302.0	301.4	301.0	300.4	299.8
110°	349.1	348.7	347.7	346.7	345.5	344.5	343.7	343.2	342.7	342.1	341.7



TEST NUMBER: P332973-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	388.6	388.6	388.1	387.6	387.1	386.7	386.0	385.0	384.0	383.1	382.1
115°	446.4	446.0	446.2	446.4	446.6	446.7	446.6	446.0	445.5	445.0	444.4
117.5°	505.4	505.5	505.1	504.7	504.3	503.9	503.4	502.7	502.0	501.3	500.6
120°	541.3	540.9	541.1	541.3	541.5	541.6	541.4	540.7	540.0	539.2	538.5
122.5°	577.2	576.9	576.7	576.5	576.2	576.0	575.7	575.2	574.8	574.4	573.9
125°	626.9	626.3	626.7	627.0	627.4	627.7	627.6	626.9	626.1	625.4	624.7
127.5°	677.2	677.2	676.4	675.7	674.9	674.0	673.5	673.4	673.2	673.0	672.8
130°	707.2	707.0	706.5	705.9	705.4	704.9	704.5	704.3	704.2	704.0	703.9
132.5°	736.9	736.7	736.0	735.4	734.7	734.0	733.6	733.2	732.9	732.6	732.3
135°	777.7	777.4	776.7	775.9	775.2	774.5	774.3	774.4	774.7	774.8	775.0
137.5°	817.0	816.6	815.8	815.1	814.3	813.5	813.1	813.0	812.9	812.9	812.8
140°	841.1	840.7	840.3	840.0	839.6	839.2	838.8	838.5	838.2	837.8	837.5
142.5°	863.8	863.4	863.2	863.0	862.8	862.5	862.1	861.5	860.9	860.2	859.6
145°	896.2	896.0	896.0	896.0	896.0	896.0	895.7	895.2	894.7	894.1	893.6
147.5°	924.5	924.3	924.5	924.6	924.8	925.0	924.6	923.6	922.7	921.6	920.7
150°	942.6	942.6	942.9	943.0	943.2	943.3	943.1	942.4	941.7	941.0	940.2
152.5°	958.1	957.8	958.1	958.5	958.8	959.1	958.9	958.4	957.8	957.3	956.7
155°	978.9	978.3	978.7	979.3	979.9	980.3	980.5	980.3	980.2	980.0	979.9
157.5°	997.0	996.1	996.7	997.3	997.9	998.5	998.9	998.9	999.0	999.2	999.3
160°	1008.5	1007.5	1007.7	1007.8	1008.1	1008.2	1008.5	1009.1	1009.6	1010.1	1010.7
162.5°	1018.0	1017.0	1017.2	1017.3	1017.5	1017.7	1018.1	1018.7	1019.5	1020.1	1020.8
165°	1031.0	1029.6	1029.6	1029.6	1029.6	1029.6	1030.1	1030.9	1031.8	1032.7	1033.6
167.5°	1040.7	1039.1	1039.3	1039.3	1039.4	1039.6	1040.1	1041.0	1041.9	1042.8	1043.7
170°	1046.9	1045.4	1045.3	1045.1	1044.9	1044.7	1045.2	1046.2	1047.3	1048.4	1049.4
172.5°	1050.7	1049.2	1049.1	1048.9	1048.7	1048.5	1049.0	1050.0	1051.1	1052.2	1053.2
175°	1054.9	1053.4	1053.2	1053.0	1052.8	1052.7	1053.1	1054.2	1055.2	1056.3	1057.3
177.5°	1057.2	1056.1	1055.7	1055.5	1055.2	1054.9	1055.3	1056.3	1057.2	1058.2	1059.2
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1367.5	1371.5	1375.9	1384.2	1391.2	1394.3	1400.4	1404.8	1403.5	1409.6	1420.1
5°	1372.9	1387.7	1404.7	1422.2	1441.9	1458.3	1471.5	1484.6	1495.1	1507.7	1526.3
7.5°	1372.1	1398.4	1427.0	1458.3	1490.6	1518.6	1544.4	1570.7	1594.0	1619.6	1653.0
10°	1368.6	1403.6	1439.2	1480.3	1521.3	1560.2	1595.3	1628.1	1659.4	1692.7	1735.0
12.5°	1364.6	1404.9	1448.0	1497.4	1548.5	1595.3	1636.5	1683.8	1722.8	1765.9	1814.7
15°	1347.2	1401.4	1460.0	1524.1	1585.4	1648.4	1704.8	1762.8	1817.0	1868.5	1929.9
17.5°	1327.2	1389.8	1458.9	1534.6	1608.3	1684.9	1751.8	1825.0	1880.4	1949.5	2006.4
20°	1311.1	1378.4	1452.3	1537.2	1621.0	1705.9	1779.8	1854.3	1916.8	1986.3	2058.6
22.5°	1291.3	1365.2	1445.3	1533.3	1621.0	1713.8	1795.6	1869.6	1946.9	2025.3	2099.8
25°	1259.6	1336.3	1421.1	1517.5	1618.3	1713.0	1800.6	1892.6	1975.9	2060.8	2127.6
27.5°	1220.6	1301.1	1390.6	1490.0	1593.4	1690.4	1793.7	1891.7	1975.5	2057.1	2115.4
30°	1189.5	1274.4	1360.3	1461.1	1568.4	1672.5	1783.1	1881.1	1969.3	2042.7	2075.5
32.5°	1157.5	1238.0	1326.6	1428.7	1538.7	1650.6	1760.3	1860.5	1942.1	1986.2	1987.0
35°	1101.8	1177.4	1269.4	1369.7	1482.5	1604.0	1715.2	1813.8	1863.6	1867.4	1813.8
37.5°	1041.2	1110.5	1197.4	1297.7	1421.3	1542.1	1655.7	1721.4	1738.1	1682.4	1583.1
40°	997.8	1061.8	1145.7	1248.6	1371.3	1496.1	1599.7	1647.8	1630.3	1539.9	1429.3
42.5°	952.2	1011.9	1092.7	1194.3	1317.4	1443.6	1531.8	1557.6	1511.2	1406.8	1277.3
45°	877.9	932.6	1012.6	1115.0	1233.3	1351.5	1418.4	1405.3	1328.0	1204.3	1059.1
47.5°	800.4	853.3	925.3	1020.0	1141.1	1243.3	1288.5	1248.9	1139.0	1002.8	884.8
50°	749.2	803.4	869.7	960.0	1070.6	1169.2	1198.3	1138.0	1015.9	884.9	776.6
52.5°	698.8	745.1	810.1	897.4	1003.1	1086.4	1101.8	1032.4	906.3	789.0	692.8
55°	622.1	664.3	719.1	801.2	892.6	963.3	955.1	865.9	751.4	651.2	575.6
57.5°	548.0	579.7	630.3	707.3	787.6	835.0	805.0	728.9	622.3	540.2	476.4
60°	498.9	528.5	575.6	642.9	713.6	740.4	715.2	632.6	548.2	473.2	419.5
62.5°	452.5	478.6	519.0	581.6	638.7	654.5	627.6	555.4	479.4	415.3	370.9
65°	385.0	409.1	443.6	488.0	527.4	535.0	517.5	443.6	386.1	332.4	301.7
67.5°	323.8	339.5	366.5	404.8	425.7	430.2	396.4	349.9	299.2	266.3	243.1
70°	282.6	293.5	318.7	339.5	356.5	357.0	325.8	288.6	249.7	222.9	205.9
72.5°	242.7	253.3	272.3	286.5	299.5	295.3	266.7	237.3	205.9	185.7	173.1
75°	187.3	196.6	206.4	213.0	213.0	207.6	186.7	164.9	146.8	134.8	130.9
77.5°	136.2	143.8	147.1	146.1	144.2	135.6	122.5	108.1	101.6	95.9	93.1
80°	106.8	110.1	111.1	108.4	105.1	95.3	86.5	80.5	74.5	72.3	71.2
82.5°	79.2	82.1	79.2	79.9	72.7	64.6	59.8	57.8	55.2	54.3	53.2
85°	42.1	41.6	40.6	37.8	32.9	31.8	31.2	30.7	29.5	30.1	29.0
87.5°	15.3	14.4	13.0	13.0	13.3	12.7	13.5	13.7	14.0	13.8	14.9
90°	4.3	6.3	8.2	10.1	11.8	13.2	14.6	16.0	17.4	18.5	19.5
92.5°	10.1	10.1	10.3	10.4	11.2	12.5	13.9	15.4	16.8	17.8	18.9
95°	37.5	31.5	25.6	19.6	16.7	16.9	17.0	17.2	17.4	18.5	19.5
97.5°	96.1	99.8	103.5	107.3	99.3	79.7	60.1	40.5	20.9	21.0	21.1
100°	132.8	136.0	139.2	142.4	131.8	107.6	83.3	59.0	34.8	31.8	28.8
102.5°	173.8	176.1	178.4	180.7	180.3	177.1	174.0	170.8	167.6	135.4	103.2
105°	239.1	240.1	241.2	242.2	243.2	244.1	244.9	245.9	246.8	248.3	249.9
107.5°	300.4	301.0	301.4	302.0	302.9	304.0	305.2	306.4	307.6	308.4	309.2
110°	342.1	342.7	343.2	343.7	344.5	345.5	346.7	347.7	348.7	349.1	349.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	383.1	384.0	385.0	386.0	386.7	387.1	387.6	388.1	388.6	388.6	388.5
115°	445.0	445.5	446.0	446.6	446.7	446.6	446.4	446.2	446.0	446.4	446.7
117.5°	501.3	502.0	502.7	503.4	503.9	504.3	504.7	505.1	505.5	505.4	505.3
120°	539.2	540.0	540.7	541.4	541.6	541.5	541.3	541.1	540.9	541.3	541.6
122.5°	574.4	574.8	575.2	575.7	576.0	576.2	576.5	576.7	576.9	577.2	577.4
125°	625.4	626.1	626.9	627.6	627.7	627.4	627.0	626.7	626.3	626.9	627.4
127.5°	673.0	673.2	673.4	673.5	674.0	674.9	675.7	676.4	677.2	677.2	677.1
130°	704.0	704.2	704.3	704.5	704.9	705.4	705.9	706.5	707.0	707.2	707.3
132.5°	732.6	732.9	733.2	733.6	734.0	734.7	735.4	736.0	736.7	736.9	737.0
135°	774.8	774.7	774.4	774.3	774.5	775.2	775.9	776.7	777.4	777.7	778.1
137.5°	812.9	812.9	813.0	813.1	813.5	814.3	815.1	815.8	816.6	817.0	817.4
140°	837.8	838.2	838.5	838.8	839.2	839.6	840.0	840.3	840.7	841.1	841.7
142.5°	860.2	860.9	861.5	862.1	862.5	862.8	863.0	863.2	863.4	863.8	864.2
145°	894.1	894.7	895.2	895.7	896.0	896.0	896.0	896.0	896.0	896.2	896.4
147.5°	921.6	922.7	923.6	924.6	925.0	924.8	924.6	924.5	924.3	924.5	924.6
150°	941.0	941.7	942.4	943.1	943.3	943.2	943.0	942.9	942.6	942.6	942.6
152.5°	957.3	957.8	958.4	958.9	959.1	958.8	958.5	958.1	957.8	958.1	958.4
155°	980.0	980.2	980.3	980.5	980.3	979.9	979.3	978.7	978.3	978.9	979.6
157.5°	999.2	999.0	998.9	998.9	998.5	997.9	997.3	996.7	996.1	997.0	997.9
160°	1010.1	1009.6	1009.1	1008.5	1008.2	1008.1	1007.8	1007.7	1007.5	1008.5	1009.6
162.5°	1020.1	1019.5	1018.7	1018.1	1017.7	1017.5	1017.3	1017.2	1017.0	1018.0	1019.1
165°	1032.7	1031.8	1030.9	1030.1	1029.6	1029.6	1029.6	1029.6	1029.6	1031.0	1032.5
167.5°	1042.8	1041.9	1041.0	1040.1	1039.6	1039.4	1039.3	1039.3	1039.1	1040.7	1042.2
170°	1048.4	1047.3	1046.2	1045.2	1044.7	1044.9	1045.1	1045.3	1045.4	1046.9	1048.3
172.5°	1052.2	1051.1	1050.0	1049.0	1048.5	1048.7	1048.9	1049.1	1049.2	1050.7	1052.1
175°	1056.3	1055.2	1054.2	1053.1	1052.7	1052.8	1053.0	1053.2	1053.4	1054.9	1056.5
177.5°	1058.2	1057.2	1056.3	1055.3	1054.9	1055.2	1055.5	1055.7	1056.1	1057.2	1058.3
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1425.8	1427.6	1428.9	1433.3	1433.7	1437.7	1433.7
5°	1543.8	1551.5	1563.5	1575.6	1576.7	1584.3	1570.7
7.5°	1676.1	1693.8	1704.9	1724.4	1732.1	1736.9	1729.0
10°	1767.2	1783.7	1812.7	1826.9	1841.2	1843.3	1836.8
12.5°	1855.3	1881.4	1904.2	1931.2	1930.5	1949.8	1942.8
15°	1972.6	1999.5	2031.2	2061.3	2072.3	2072.3	2081.1
17.5°	2056.3	2105.5	2138.3	2161.9	2187.8	2192.3	2189.3
20°	2112.8	2165.9	2201.0	2231.7	2249.2	2254.1	2254.1
22.5°	2154.8	2200.0	2234.3	2261.8	2276.3	2282.1	2280.4
25°	2184.0	2222.9	2243.7	2251.9	2255.7	2254.6	2244.3
27.5°	2144.1	2142.4	2129.2	2104.0	2085.1	2073.6	2060.5
30°	2067.9	2039.4	2006.5	1970.4	1923.9	1888.2	1877.3
32.5°	1954.4	1890.5	1834.8	1774.6	1724.5	1688.9	1674.0
35°	1735.0	1633.6	1550.9	1478.6	1426.1	1393.2	1382.3
37.5°	1474.5	1376.4	1274.1	1204.0	1160.3	1127.1	1114.8
40°	1308.8	1202.1	1112.8	1047.1	1002.2	969.9	969.3
42.5°	1157.7	1055.7	971.8	924.4	876.0	854.6	854.5
45°	947.9	866.3	795.2	758.0	728.9	711.4	706.5
47.5°	784.9	717.4	669.9	640.3	616.6	605.5	598.3
50°	693.3	634.1	596.4	570.6	557.5	543.3	542.2
52.5°	617.1	569.3	539.9	519.0	502.3	493.8	494.0
55°	518.6	480.9	460.0	444.1	431.0	424.5	421.7
57.5°	436.9	408.5	393.4	378.8	373.3	368.1	366.7
60°	386.1	366.9	352.7	341.2	333.0	331.3	330.7
62.5°	344.0	324.0	314.1	305.2	299.2	296.7	295.7
65°	283.7	268.9	260.2	253.0	250.8	247.0	246.4
67.5°	228.7	219.8	214.0	209.1	206.1	205.9	205.9
70°	195.0	190.0	185.1	182.4	180.7	179.6	179.6
72.5°	166.0	162.4	158.4	156.9	156.6	155.5	155.1
75°	126.5	122.7	123.2	120.5	118.3	115.6	113.9
77.5°	89.7	87.0	86.4	86.1	84.2	83.9	84.8
80°	69.6	66.8	66.2	66.8	66.2	64.6	64.6
82.5°	52.9	50.6	50.1	49.7	49.2	49.7	48.9
85°	28.4	27.4	27.4	27.4	28.4	28.0	27.4
87.5°	14.2	13.9	14.6	14.2	14.3	13.9	14.4
90°	20.6	21.6	22.3	22.7	23.1	23.4	23.7
92.5°	20.0	21.0	21.5	21.6	21.7	21.8	21.9
95°	20.6	21.6	22.3	22.4	22.6	22.7	22.9
97.5°	21.2	21.3	21.5	21.6	21.8	21.9	22.2
100°	25.8	22.8	21.5	21.6	21.8	21.9	22.2
102.5°	71.0	38.7	22.7	22.7	22.7	22.7	22.8
105°	251.4	253.0	250.7	244.4	238.1	231.7	225.4
107.5°	310.0	310.7	311.4	312.1	312.8	313.5	314.1
110°	349.8	350.1	350.6	351.1	351.6	352.2	352.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	388.4	388.3	388.6	389.3	390.0	390.6	391.3
115°	447.1	447.4	447.6	447.6	447.6	447.6	447.6
117.5°	505.3	505.2	505.2	505.1	505.0	504.9	504.9
120°	541.9	542.3	542.3	541.9	541.6	541.3	540.9
122.5°	577.6	577.8	577.7	577.4	577.0	576.7	576.3
125°	627.9	628.4	628.8	629.0	629.2	629.3	629.5
127.5°	676.9	676.8	676.7	676.6	676.4	676.3	676.1
130°	707.5	707.7	707.8	707.8	707.8	707.8	707.8
132.5°	737.3	737.4	737.4	737.3	737.1	737.0	736.9
135°	778.4	778.8	779.1	779.5	779.8	780.1	780.5
137.5°	817.8	818.2	818.2	818.2	818.1	817.9	817.8
140°	842.2	842.7	843.1	843.3	843.4	843.6	843.8
142.5°	864.6	865.0	865.1	865.2	865.2	865.3	865.3
145°	896.5	896.7	897.0	897.3	897.6	898.0	898.3
147.5°	924.7	924.9	925.0	925.2	925.3	925.6	925.7
150°	942.6	942.6	942.7	942.9	943.1	943.3	943.4
152.5°	958.7	958.9	959.0	958.9	958.9	958.7	958.6
155°	980.3	981.0	981.1	980.6	980.1	979.5	979.1
157.5°	998.9	999.7	999.7	998.9	997.9	997.0	996.1
160°	1010.7	1011.7	1011.7	1010.7	1009.6	1008.5	1007.5
162.5°	1020.2	1021.2	1021.1	1019.9	1018.7	1017.6	1016.4
165°	1033.9	1035.2	1035.1	1033.6	1032.0	1030.4	1028.8
167.5°	1043.8	1045.3	1045.2	1043.5	1041.7	1039.9	1038.2
170°	1049.6	1051.1	1050.9	1049.2	1047.4	1045.6	1043.9
172.5°	1053.4	1054.9	1054.6	1052.7	1050.8	1048.9	1047.0
175°	1058.1	1059.7	1059.4	1057.3	1055.2	1053.1	1051.0
177.5°	1059.4	1060.6	1060.3	1058.6	1056.9	1055.2	1053.5
180°	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3	1057.3

(END OF REPORT)