

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: P331982-840

Luminaire Tested: **S123DIP-S775D1025U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331982-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S775D1025U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7434.7 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

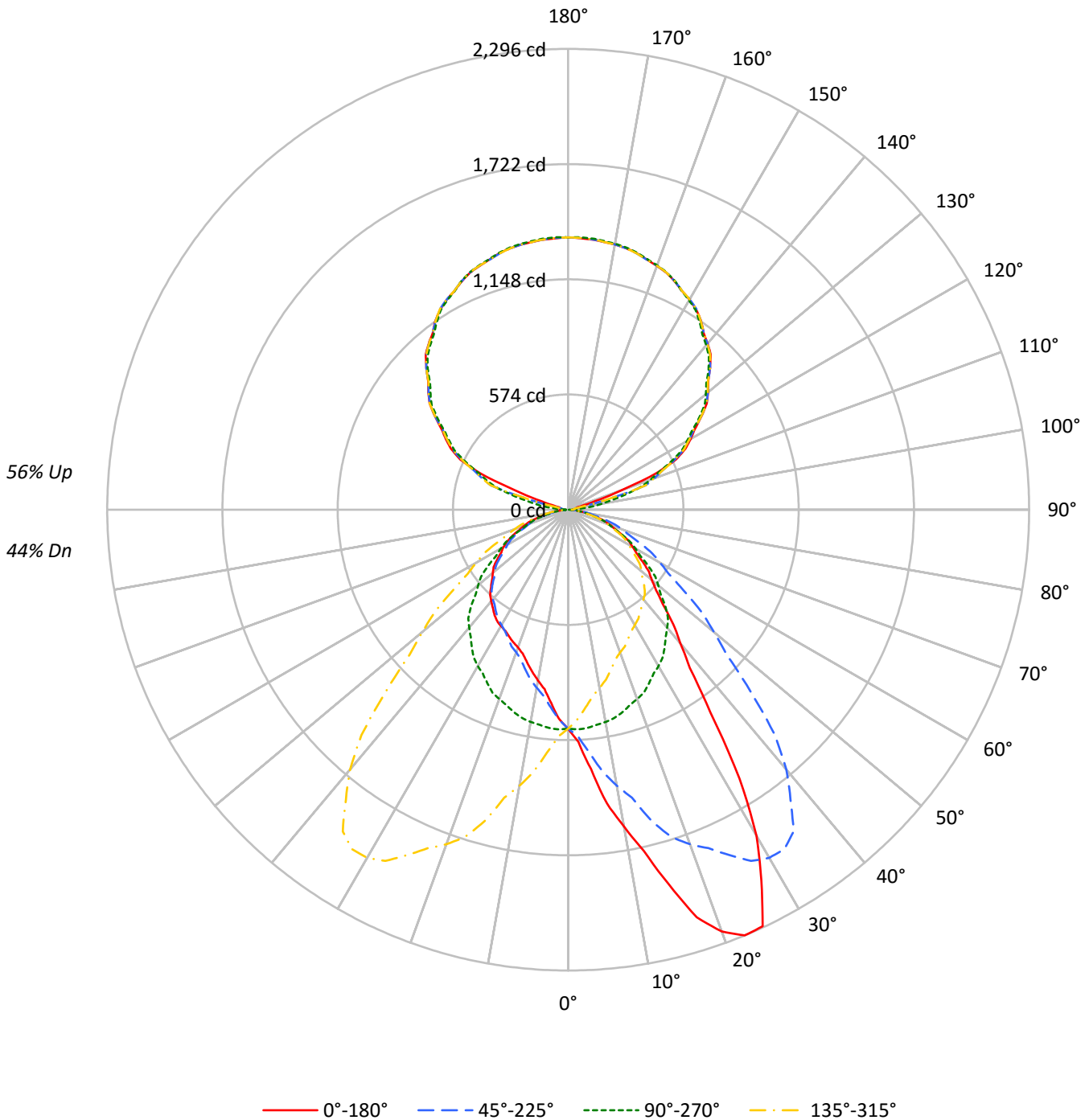
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	85	88	85	82	79	71	68	66	57	56	55	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	60	55	55	50	47	45	42	39	36	34	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11746	11746	11746	11746
5°	14008	11797	10454	11797
10°	17533	11737	9441	11737
15°	21504	11642	8790	11642
20°	25616	11494	8369	11494
25°	27201	11315	8276	11315
30°	23313	11184	8319	11184
35°	16215	10997	8406	10997
40°	12213	10779	8379	10779
45°	10140	10455	8273	10455
50°	9083	9791	8199	9791
55°	8492	9077	8096	9077
60°	7967	8331	8013	8331
65°	7488	7595	7755	7595
70°	7021	6754	7386	6754
75°	6288	5914	6771	5914
80°	5511	4854	5833	4854
85°	4310	3532	3915	3532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.4
10°-20°	344.7	4.6
20°-30°	578.5	7.8
30°-40°	655.0	8.8
40°-50°	587.4	7.9
50°-60°	474.0	6.4
60°-70°	330.3	4.4
70°-80°	173.6	2.3
80°-90°	46.3	0.6
90°-100°	49.3	0.7
100°-110°	235.1	3.2
110°-120°	564.7	7.6
120°-130°	719.1	9.7
130°-140°	768.3	10.3
140°-150°	718.5	9.7
150°-160°	579.5	7.8
160°-170°	374.0	5.0
170°-180°	128.9	1.7
0°-30°	1030.6	13.9
0°-40°	1685.7	22.7
0°-60°	2747.1	36.9
0°-90°	3297.3	44.3
90°-120°	849.1	11.4
90°-150°	3055.0	41.1
90°-180°	4137.0	55.6
0°-180°	7434.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1091	1091	1091	1091	1091	
5°	1296	1092	968	1092	1296	134
15°	1930	1045	789	1045	1930	557
25°	2290	953	697	953	2290	1004
35°	1234	837	640	837	1234	802
45°	666	687	544	687	666	527
55°	452	484	431	484	452	406
65°	294	298	304	298	294	293
75°	151	142	163	142	151	162
85°	35	29	32	29	35	42
90°	30	1	30	1	30	15
95°	38	62	38	62	38	32
105°	44	300	44	300	44	101
115°	593	564	593	564	593	548
125°	810	794	810	794	810	724
135°	999	989	999	989	999	770
145°	1152	1141	1152	1141	1152	719
155°	1255	1257	1255	1257	1255	579
165°	1322	1326	1322	1326	1322	373
175°	1352	1357	1352	1357	1352	129
180°	1357	1357	1357	1357	1357	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1158.0	1157.2	1155.1	1156.8	1153.4	1148.7	1148.3	1144.1	1131.8	1130.9	1127.6
5°	1296.4	1292.1	1291.6	1291.0	1283.6	1273.6	1254.6	1252.9	1227.6	1214.9	1199.6
7.5°	1475.4	1477.6	1470.0	1463.2	1440.6	1425.6	1405.2	1379.1	1348.0	1316.4	1295.3
10°	1604.1	1621.4	1599.8	1585.0	1571.2	1545.3	1515.2	1477.6	1440.2	1396.2	1362.9
12.5°	1741.9	1750.5	1746.2	1732.2	1710.8	1671.4	1618.0	1576.6	1542.1	1468.9	1439.5
15°	1929.7	1962.0	1941.4	1893.7	1894.8	1857.2	1787.5	1710.8	1670.1	1606.1	1518.9
17.5°	2129.7	2133.7	2125.0	2085.4	2058.9	2007.3	1942.9	1869.5	1787.0	1709.5	1617.0
20°	2236.3	2233.1	2214.6	2194.0	2148.6	2108.4	2038.1	1956.1	1850.4	1774.2	1673.2
22.5°	2295.5	2290.3	2281.5	2264.2	2226.3	2183.2	2120.1	2030.5	1930.0	1825.0	1708.4
25°	2290.3	2297.1	2298.1	2293.4	2280.2	2254.3	2204.6	2133.2	2032.8	1897.9	1776.4
27.5°	2083.0	2092.7	2121.0	2146.1	2174.0	2202.6	2198.8	2163.3	2089.0	1972.7	1823.9
30°	1875.7	1854.6	1906.9	1973.1	2018.0	2097.3	2141.7	2144.3	2102.5	2002.7	1857.7
32.5°	1588.1	1611.4	1634.6	1715.9	1814.1	1903.2	1991.6	2062.8	2070.8	2004.4	1877.6
35°	1234.0	1263.0	1305.4	1347.6	1453.4	1544.3	1699.7	1835.0	1942.9	1957.2	1879.5
37.5°	994.3	1008.8	1035.5	1077.8	1147.0	1254.9	1375.1	1546.2	1702.4	1818.7	1823.7
40°	869.2	873.4	903.5	935.7	991.8	1080.7	1189.0	1340.2	1527.3	1689.7	1757.4
42.5°	775.3	784.6	797.4	828.3	872.9	939.8	1040.6	1165.5	1337.1	1523.9	1656.3
45°	666.1	676.7	684.7	705.3	737.0	781.9	852.2	966.4	1097.0	1290.0	1468.1
47.5°	594.0	594.9	600.8	616.3	637.9	671.7	721.3	794.8	914.6	1071.1	1254.1
50°	542.4	550.9	553.0	565.1	582.1	606.9	648.1	710.5	808.9	946.3	1114.5
52.5°	506.0	508.6	514.5	523.3	538.1	557.4	593.2	642.1	719.2	836.4	991.0
55°	452.5	452.5	458.4	465.2	473.7	491.1	514.9	550.9	609.6	700.5	828.5
57.5°	403.0	405.7	409.8	411.9	419.1	430.7	450.5	477.9	521.6	591.6	693.3
60°	370.1	374.9	374.4	378.5	384.9	393.8	410.8	433.0	472.1	528.2	613.8
62.5°	341.3	341.0	340.9	346.0	352.3	360.9	371.8	391.1	424.3	474.0	546.9
65°	294.0	292.9	296.6	299.7	301.8	308.2	316.7	333.6	355.8	392.8	449.4
67.5°	251.9	248.8	250.9	251.9	255.5	260.4	268.3	278.8	296.5	326.2	368.8
70°	223.1	220.5	219.9	221.0	224.2	227.8	233.7	243.7	260.1	283.9	315.1
72.5°	193.5	191.7	191.6	193.9	195.4	197.8	202.0	211.2	224.2	242.1	271.1
75°	151.2	151.2	151.2	151.7	153.3	155.4	158.6	163.4	173.4	186.1	205.6
77.5°	113.3	113.2	112.6	112.5	114.8	115.8	116.5	121.0	126.5	135.1	149.4
80°	88.9	86.1	87.3	88.9	89.9	90.4	92.0	93.0	97.9	102.6	112.6
82.5°	65.9	63.7	63.9	66.4	66.7	67.2	68.8	70.2	72.0	76.3	81.7
85°	34.9	34.9	35.4	35.4	36.0	35.4	37.0	37.6	37.6	40.2	43.3
87.5°	18.8	17.8	18.2	18.5	18.0	18.3	18.5	18.7	19.0	19.2	19.1
90°	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0	25.0	24.2	21.3
92.5°	33.4	33.2	32.9	32.6	32.4	31.5	30.1	28.7	27.3	25.9	23.6
95°	38.3	38.3	38.3	38.3	38.3	37.6	36.0	34.3	32.8	31.2	28.8
97.5°	41.5	41.3	41.1	40.9	40.6	39.6	37.9	36.1	34.2	32.4	48.6
100°	42.3	42.1	41.9	41.7	41.4	40.4	38.7	36.9	35.0	33.2	68.2
102.5°	43.1	42.7	42.3	41.9	41.5	44.1	49.7	55.2	60.8	66.3	104.5
105°	44.3	43.9	43.4	43.0	42.5	62.2	101.8	141.5	181.1	220.8	241.0
107.5°	139.3	169.2	199.0	228.9	258.8	288.3	317.4	346.5	375.6	404.7	401.4
110°	277.2	309.2	341.2	373.2	405.4	425.1	432.4	439.8	447.2	454.6	452.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	475.5	482.3	489.1	495.8	502.6	505.9	505.8	505.6	505.5	505.4	502.9
115°	592.7	591.8	590.9	590.0	589.2	587.5	585.3	583.1	580.9	578.6	576.5
117.5°	658.4	658.2	658.0	657.9	657.7	656.7	654.9	653.2	651.4	649.5	648.5
120°	703.6	703.6	703.6	703.6	703.6	702.7	700.8	699.1	697.3	695.5	694.9
122.5°	747.9	747.7	747.6	747.4	747.2	746.5	745.3	744.0	742.8	741.4	740.6
125°	810.4	810.0	809.5	809.1	808.6	808.2	807.7	807.3	806.9	806.4	805.5
127.5°	870.5	870.9	871.4	871.8	872.3	872.1	871.4	870.7	870.0	869.3	868.2
130°	909.2	909.7	910.1	910.6	911.0	910.8	909.9	909.0	908.1	907.2	906.3
132.5°	944.7	945.3	945.9	946.5	947.2	947.1	946.1	945.2	944.4	943.5	942.8
135°	999.0	999.6	1000.3	1001.0	1001.6	1001.6	1001.0	1000.3	999.6	999.0	998.0
137.5°	1050.0	1050.4	1050.9	1051.3	1051.7	1051.4	1050.4	1049.2	1048.1	1047.1	1046.6
140°	1080.6	1081.1	1081.5	1081.9	1082.4	1082.2	1081.3	1080.4	1079.4	1078.5	1077.9
142.5°	1108.8	1109.4	1110.0	1110.6	1111.3	1111.3	1110.5	1109.8	1109.1	1108.4	1107.7
145°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.0	1151.4	1151.0	1150.5	1150.1	1149.6
147.5°	1184.4	1185.4	1186.5	1187.5	1188.5	1188.8	1188.3	1187.9	1187.5	1187.0	1186.6
150°	1208.6	1209.2	1209.9	1210.6	1211.2	1211.4	1210.9	1210.5	1210.0	1209.6	1209.1
152.5°	1227.9	1229.0	1230.0	1231.0	1232.0	1232.1	1231.3	1230.5	1229.7	1228.9	1228.7
155°	1255.0	1256.3	1257.7	1259.0	1260.3	1260.4	1259.3	1258.2	1257.1	1256.0	1255.8
157.5°	1277.8	1279.5	1281.2	1282.9	1284.8	1285.0	1283.5	1282.2	1280.9	1279.5	1279.8
160°	1292.2	1293.8	1295.4	1297.0	1298.5	1298.6	1297.3	1296.0	1294.6	1293.2	1293.4
162.5°	1306.0	1307.4	1308.7	1310.1	1311.5	1311.4	1309.9	1308.4	1306.9	1305.4	1305.6
165°	1322.5	1324.0	1325.6	1327.2	1328.8	1328.7	1326.9	1325.0	1323.2	1321.5	1321.7
167.5°	1334.3	1336.2	1338.0	1339.8	1341.5	1341.5	1339.8	1338.0	1336.2	1334.3	1334.3
170°	1341.6	1343.4	1345.2	1347.1	1348.8	1348.8	1347.1	1345.2	1343.4	1341.6	1341.6
172.5°	1345.6	1347.7	1349.6	1351.6	1353.5	1353.6	1351.8	1350.1	1348.3	1346.5	1346.3
175°	1351.7	1353.5	1355.3	1357.1	1358.9	1359.0	1357.5	1355.8	1354.3	1352.7	1352.5
177.5°	1353.5	1355.3	1357.2	1358.9	1360.7	1360.9	1359.5	1358.0	1356.6	1355.1	1354.9
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1125.0	1121.7	1118.2	1112.4	1107.3	1100.0	1097.9	1095.4	1087.8	1081.1	1076.0
5°	1193.8	1181.0	1162.6	1145.7	1132.0	1113.4	1102.9	1091.8	1075.9	1061.6	1050.0
7.5°	1265.7	1240.7	1211.9	1180.8	1151.9	1124.0	1101.5	1081.4	1059.1	1038.1	1021.8
10°	1322.7	1286.8	1246.7	1203.3	1166.3	1130.3	1100.1	1073.8	1045.2	1020.4	999.8
12.5°	1387.9	1334.6	1279.2	1226.6	1182.8	1132.9	1096.4	1062.8	1030.4	1000.5	977.3
15°	1465.0	1397.4	1331.7	1259.3	1192.8	1130.3	1087.0	1044.7	1007.1	976.4	946.8
17.5°	1535.2	1458.5	1372.1	1284.0	1203.7	1129.7	1069.0	1021.2	974.2	936.8	907.3
20°	1575.0	1487.7	1389.9	1298.5	1209.6	1127.1	1060.6	1003.4	952.7	913.0	879.7
22.5°	1609.2	1507.1	1405.9	1308.2	1209.2	1120.3	1044.9	986.1	931.1	892.3	856.9
25°	1644.8	1522.6	1421.1	1306.4	1195.9	1103.9	1019.3	952.7	897.7	852.2	815.8
27.5°	1675.2	1521.6	1401.1	1277.7	1175.0	1082.8	992.4	921.0	862.6	813.2	776.2
30°	1695.5	1523.7	1380.4	1258.3	1154.7	1059.4	971.7	899.8	838.5	788.3	753.4
32.5°	1708.2	1522.4	1361.4	1231.2	1122.5	1038.3	949.3	874.8	811.8	762.4	728.8
35°	1715.6	1513.1	1328.6	1175.3	1070.6	988.7	914.1	836.9	770.8	724.8	686.8
37.5°	1700.8	1493.5	1290.5	1121.4	1006.7	926.0	863.3	797.6	734.4	683.7	651.0
40°	1677.5	1480.9	1260.9	1083.3	962.7	885.0	831.6	767.1	704.7	656.6	625.9
42.5°	1633.1	1455.0	1228.3	1041.0	917.1	839.3	790.2	736.3	677.2	632.1	601.5
45°	1524.7	1398.9	1179.5	977.5	849.6	769.2	725.9	686.8	633.4	589.5	563.0
47.5°	1374.3	1314.4	1108.8	910.6	779.2	701.9	656.8	625.3	586.3	550.9	525.5
50°	1269.9	1245.1	1061.1	864.9	732.3	656.6	613.3	584.7	556.7	521.3	498.1
52.5°	1149.3	1164.7	1005.2	817.6	684.4	610.1	569.3	546.6	521.2	492.1	471.8
55°	979.7	1035.1	908.8	738.0	613.3	542.4	503.8	483.7	469.0	447.3	429.8
57.5°	820.7	891.4	804.6	656.1	543.4	482.3	445.2	423.3	413.8	402.5	388.8
60°	726.4	796.2	730.1	601.1	496.4	438.3	405.5	387.0	377.5	369.5	357.9
62.5°	642.3	712.9	657.3	545.3	450.3	396.4	367.9	349.8	342.3	338.2	328.3
65°	526.5	587.3	550.4	458.4	384.4	336.8	310.8	298.2	291.3	289.7	283.4
67.5°	428.6	474.8	447.9	380.2	321.9	280.8	258.8	248.0	242.8	242.3	237.5
70°	364.3	407.6	387.0	325.7	275.5	243.2	224.2	214.6	211.5	211.0	208.3
72.5°	314.4	344.6	328.2	277.0	238.2	208.9	195.0	185.0	181.5	182.2	180.4
75°	232.6	255.4	245.8	210.5	179.3	160.2	148.6	142.2	139.1	140.7	138.6
77.5°	167.3	181.8	173.2	148.7	129.5	115.6	107.1	103.2	100.4	100.3	99.3
80°	126.3	134.8	130.1	115.2	99.4	87.8	80.9	78.3	76.6	76.1	75.6
82.5°	90.0	97.1	91.6	81.4	70.6	63.6	59.8	56.2	55.1	55.4	54.8
85°	45.4	48.1	45.9	39.7	35.4	32.2	30.1	28.6	27.5	28.0	27.0
87.5°	19.3	19.2	17.3	15.1	13.8	12.1	11.6	10.4	10.0	10.4	10.4
90°	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0	3.2	5.5	7.8
92.5°	21.4	19.2	17.1	16.3	16.9	17.5	18.1	18.8	18.1	17.5	16.9
95°	26.4	23.8	21.4	24.7	33.9	43.1	52.3	61.5	52.3	43.1	33.9
97.5°	64.7	80.9	96.9	107.0	111.2	115.3	119.5	123.6	119.5	115.3	111.2
100°	103.1	138.0	173.0	188.2	183.8	179.4	174.8	170.4	174.8	179.4	183.8
102.5°	142.7	180.9	219.0	236.5	233.3	230.0	226.8	223.6	226.8	230.0	233.3
105°	261.1	281.2	301.3	310.2	307.8	305.3	302.9	300.3	302.9	305.3	307.8
107.5°	398.3	395.1	391.9	389.3	387.4	385.4	383.4	381.4	383.4	385.4	387.4
110°	449.7	447.2	444.7	442.6	440.8	439.0	437.3	435.5	437.3	439.0	440.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	500.5	498.1	495.5	493.5	491.9	490.3	488.7	487.1	488.7	490.3	491.9
115°	574.5	572.5	570.6	568.9	567.5	566.1	564.8	563.5	564.8	566.1	567.5
117.5°	647.5	646.4	645.4	644.1	642.5	640.8	639.1	637.4	639.1	640.8	642.5
120°	694.2	693.5	692.9	691.5	689.4	687.4	685.4	683.4	685.4	687.4	689.4
122.5°	739.8	738.9	738.1	736.8	735.2	733.5	731.8	730.2	731.8	733.5	735.2
125°	804.6	803.8	802.8	801.4	799.7	797.9	796.1	794.3	796.1	797.9	799.7
127.5°	867.2	866.1	864.9	863.5	861.7	860.0	858.2	856.4	858.2	860.0	861.7
130°	905.4	904.5	903.6	902.3	900.5	898.7	896.9	895.1	896.9	898.7	900.5
132.5°	942.0	941.3	940.6	939.4	937.6	935.7	934.0	932.2	934.0	935.7	937.6
135°	997.1	996.2	995.3	994.2	992.9	991.5	990.2	988.9	990.2	991.5	992.9
137.5°	1046.1	1045.6	1045.1	1044.0	1042.4	1040.7	1038.9	1037.2	1038.9	1040.7	1042.4
140°	1077.2	1076.5	1075.9	1074.9	1073.5	1072.2	1070.9	1069.4	1070.9	1072.2	1073.5
142.5°	1107.0	1106.4	1105.7	1104.7	1103.4	1102.0	1100.7	1099.3	1100.7	1102.0	1103.4
145°	1149.2	1148.8	1148.3	1147.3	1145.8	1144.2	1142.7	1141.0	1142.7	1144.2	1145.8
147.5°	1186.1	1185.7	1185.2	1184.5	1183.5	1182.5	1181.4	1180.3	1181.4	1182.5	1183.5
150°	1208.7	1208.2	1207.8	1207.2	1206.6	1205.9	1205.3	1204.6	1205.3	1205.9	1206.6
152.5°	1228.4	1228.1	1227.9	1227.6	1227.3	1227.0	1226.7	1226.3	1226.7	1227.0	1227.3
155°	1255.5	1255.3	1255.1	1255.2	1255.7	1256.1	1256.5	1257.0	1256.5	1256.1	1255.7
157.5°	1280.0	1280.2	1280.4	1280.6	1280.6	1280.7	1280.7	1280.7	1280.7	1280.7	1280.6
160°	1293.7	1293.9	1294.1	1294.3	1294.6	1294.8	1295.1	1295.3	1295.1	1294.8	1294.6
162.5°	1305.8	1306.1	1306.3	1306.7	1307.3	1307.8	1308.4	1309.0	1308.4	1307.8	1307.3
165°	1321.9	1322.1	1322.4	1322.8	1323.5	1324.1	1324.8	1325.5	1324.8	1324.1	1323.5
167.5°	1334.3	1334.3	1334.3	1334.8	1335.7	1336.7	1337.6	1338.4	1337.6	1336.7	1335.7
170°	1341.6	1341.6	1341.6	1342.1	1343.0	1343.9	1344.7	1345.6	1344.7	1343.9	1343.0
172.5°	1346.2	1345.9	1345.7	1346.3	1347.3	1348.4	1349.5	1350.5	1349.5	1348.4	1347.3
175°	1352.3	1352.0	1351.8	1352.3	1353.4	1354.5	1355.6	1356.8	1355.6	1354.5	1353.4
177.5°	1354.8	1354.6	1354.4	1354.8	1355.6	1356.6	1357.5	1358.4	1357.5	1356.6	1355.6
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1073.0	1070.1	1065.8	1059.4	1054.4	1046.3	1046.3	1047.6	1047.6	1047.2	1046.3
5°	1040.5	1032.5	1023.0	1011.9	1000.3	988.7	986.5	982.3	979.2	977.0	974.3
7.5°	1006.1	992.0	978.2	962.6	948.5	936.8	928.6	921.8	917.5	912.8	909.5
10°	982.8	965.3	949.0	932.6	914.6	900.4	891.4	885.0	880.3	876.1	873.9
12.5°	955.3	935.3	917.3	901.7	882.0	867.4	858.8	855.9	850.2	841.3	836.7
15°	915.1	896.7	874.9	851.2	841.6	823.6	813.6	808.9	805.7	798.8	796.7
17.5°	880.8	856.6	832.2	814.5	796.8	782.2	776.6	770.7	766.5	760.8	759.2
20°	853.3	831.6	809.4	790.4	771.8	756.0	751.2	747.0	742.8	740.1	738.0
22.5°	825.4	803.8	785.3	767.5	747.8	737.4	732.3	727.6	724.6	722.9	720.7
25°	786.2	767.1	746.5	730.6	714.8	707.9	704.7	702.1	699.9	697.3	696.8
27.5°	751.0	730.3	713.6	698.8	687.4	681.7	678.6	677.3	677.8	678.7	679.3
30°	724.8	705.8	692.1	679.3	668.8	663.5	663.0	663.0	665.1	665.6	666.7
32.5°	700.7	685.1	671.4	659.0	651.1	647.4	649.4	649.4	651.2	652.5	654.4
35°	665.6	651.9	641.3	630.8	623.9	625.4	626.5	627.5	630.2	633.4	635.5
37.5°	632.1	620.2	609.2	600.9	597.7	600.6	603.1	605.3	608.4	610.9	613.0
40°	607.9	599.0	588.4	581.0	582.1	583.7	585.8	588.4	591.1	592.7	594.8
42.5°	585.5	576.1	568.2	562.0	563.5	565.5	566.7	568.2	571.2	574.0	575.3
45°	551.4	544.0	536.6	532.9	534.0	535.0	536.0	537.7	540.3	542.4	543.0
47.5°	513.0	507.9	502.9	499.3	501.0	500.6	501.9	505.3	506.1	507.5	510.4
50°	488.5	483.7	478.0	476.9	476.9	476.9	477.4	481.6	481.6	483.7	485.8
52.5°	461.4	458.4	454.6	452.7	451.9	451.9	454.1	456.3	457.1	460.1	462.2
55°	421.3	418.2	415.1	413.4	412.3	413.4	417.7	418.7	421.3	422.9	424.5
57.5°	379.6	377.2	374.7	373.8	373.5	375.0	377.3	380.4	381.1	386.0	388.4
60°	352.1	348.4	346.3	346.3	345.3	350.0	348.9	354.3	355.3	358.4	362.1
62.5°	323.8	318.8	317.9	317.9	319.4	320.8	322.2	324.6	327.4	331.3	334.3
65°	278.1	275.5	279.1	278.6	277.5	280.7	280.7	283.4	286.5	290.2	296.1
67.5°	234.8	233.5	233.8	233.8	235.4	237.2	238.6	241.0	244.8	248.7	252.5
70°	205.6	207.2	204.6	206.7	208.3	208.8	209.8	213.1	217.3	219.9	224.2
72.5°	177.3	177.2	177.5	178.3	180.0	180.9	182.0	185.6	190.3	192.5	195.8
75°	136.4	135.8	137.4	137.4	140.1	141.2	142.2	143.8	148.0	151.2	153.8
77.5°	99.6	100.3	99.9	101.7	101.0	101.2	104.4	106.0	106.4	112.7	114.1
80°	75.0	76.1	76.6	77.2	77.8	76.6	80.4	81.9	81.9	85.6	88.3
82.5°	53.9	54.5	55.9	56.5	56.6	57.7	58.0	59.1	60.4	62.0	65.4
85°	27.0	28.6	29.1	28.6	29.1	28.0	29.6	30.1	30.7	30.7	30.7
87.5°	10.5	11.4	11.5	12.5	12.7	13.7	13.9	13.2	13.4	14.8	13.3
90°	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0	26.9	27.8	28.5
92.5°	16.3	17.1	19.2	21.4	23.6	25.9	27.3	28.7	30.1	31.5	32.4
95°	24.7	21.4	23.8	26.4	28.8	31.2	32.8	34.3	36.0	37.6	38.3
97.5°	107.0	96.9	80.9	64.7	48.6	32.4	34.2	36.1	37.9	39.6	40.6
100°	188.2	173.0	138.0	103.1	68.2	33.2	35.0	36.9	38.7	40.4	41.4
102.5°	236.5	219.0	180.9	142.7	104.5	66.3	60.8	55.2	49.7	44.1	41.5
105°	310.2	301.3	281.2	261.1	241.0	220.8	181.1	141.5	101.8	62.2	42.5
107.5°	389.3	391.9	395.1	398.3	401.4	404.7	375.6	346.5	317.4	288.3	258.8
110°	442.6	444.7	447.2	449.7	452.1	454.6	447.2	439.8	432.4	425.1	405.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	493.5	495.5	498.1	500.5	502.9	505.4	505.5	505.6	505.8	505.9	502.6
115°	568.9	570.6	572.5	574.5	576.5	578.6	580.9	583.1	585.3	587.5	589.2
117.5°	644.1	645.4	646.4	647.5	648.5	649.5	651.4	653.2	654.9	656.7	657.7
120°	691.5	692.9	693.5	694.2	694.9	695.5	697.3	699.1	700.8	702.7	703.6
122.5°	736.8	738.1	738.9	739.8	740.6	741.4	742.8	744.0	745.3	746.5	747.2
125°	801.4	802.8	803.8	804.6	805.5	806.4	806.9	807.3	807.7	808.2	808.6
127.5°	863.5	864.9	866.1	867.2	868.2	869.3	870.0	870.7	871.4	872.1	872.3
130°	902.3	903.6	904.5	905.4	906.3	907.2	908.1	909.0	909.9	910.8	911.0
132.5°	939.4	940.6	941.3	942.0	942.8	943.5	944.4	945.2	946.1	947.1	947.2
135°	994.2	995.3	996.2	997.1	998.0	999.0	999.6	1000.3	1001.0	1001.6	1001.6
137.5°	1044.0	1045.1	1045.6	1046.1	1046.6	1047.1	1048.1	1049.2	1050.4	1051.4	1051.7
140°	1074.9	1075.9	1076.5	1077.2	1077.9	1078.5	1079.4	1080.4	1081.3	1082.2	1082.4
142.5°	1104.7	1105.7	1106.4	1107.0	1107.7	1108.4	1109.1	1109.8	1110.5	1111.3	1111.3
145°	1147.3	1148.3	1148.8	1149.2	1149.6	1150.1	1150.5	1151.0	1151.4	1152.0	1152.2
147.5°	1184.5	1185.2	1185.7	1186.1	1186.6	1187.0	1187.5	1187.9	1188.3	1188.8	1188.5
150°	1207.2	1207.8	1208.2	1208.7	1209.1	1209.6	1210.0	1210.5	1210.9	1211.4	1211.2
152.5°	1227.6	1227.9	1228.1	1228.4	1228.7	1228.9	1229.7	1230.5	1231.3	1232.1	1232.0
155°	1255.2	1255.1	1255.3	1255.5	1255.8	1256.0	1257.1	1258.2	1259.3	1260.4	1260.3
157.5°	1280.6	1280.4	1280.2	1280.0	1279.8	1279.5	1280.9	1282.2	1283.5	1285.0	1284.8
160°	1294.3	1294.1	1293.9	1293.7	1293.4	1293.2	1294.6	1296.0	1297.3	1298.6	1298.5
162.5°	1306.7	1306.3	1306.1	1305.8	1305.6	1305.4	1306.9	1308.4	1309.9	1311.4	1311.5
165°	1322.8	1322.4	1322.1	1321.9	1321.7	1321.5	1323.2	1325.0	1326.9	1328.7	1328.8
167.5°	1334.8	1334.3	1334.3	1334.3	1334.3	1334.3	1336.2	1338.0	1339.8	1341.5	1341.5
170°	1342.1	1341.6	1341.6	1341.6	1341.6	1341.6	1343.4	1345.2	1347.1	1348.8	1348.8
172.5°	1346.3	1345.7	1345.9	1346.2	1346.3	1346.5	1348.3	1350.1	1351.8	1353.6	1353.5
175°	1352.3	1351.8	1352.0	1352.3	1352.5	1352.7	1354.3	1355.8	1357.5	1359.0	1358.9
177.5°	1354.8	1354.4	1354.6	1354.8	1354.9	1355.1	1356.6	1358.0	1359.5	1360.9	1360.7
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



TEST NUMBER: P331982-840

CATALOG NUMBER: S123DIP-S775D1025U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1043.4	1043.0	1045.9	1043.8	1045.9	1043.0	1043.4	1046.3	1047.2	1047.6	1047.6
5°	971.2	972.8	967.5	967.5	967.5	972.8	971.2	974.3	977.0	979.2	982.3
7.5°	906.9	904.5	904.7	901.9	904.7	904.5	906.9	909.5	912.8	917.5	921.8
10°	867.6	864.4	863.3	863.8	863.3	864.4	867.6	873.9	876.1	880.3	885.0
12.5°	835.0	834.4	827.4	827.5	827.4	834.4	835.0	836.7	841.3	850.2	855.9
15°	796.7	786.7	785.6	788.8	785.6	786.7	796.7	796.7	798.8	805.7	808.9
17.5°	758.3	753.1	753.4	751.7	753.4	753.1	758.3	759.2	760.8	766.5	770.7
20°	738.0	734.9	734.4	730.6	734.4	734.9	738.0	738.0	740.1	742.8	747.0
22.5°	719.4	718.4	718.7	714.6	718.7	718.4	719.4	720.7	722.9	724.6	727.6
25°	696.3	698.9	696.8	696.8	696.8	698.9	696.3	696.8	697.3	699.9	702.1
27.5°	680.6	680.5	679.4	679.4	679.4	680.5	680.6	679.3	678.7	677.8	677.3
30°	668.8	668.2	669.3	669.3	669.3	668.2	668.8	666.7	665.6	665.1	663.0
32.5°	656.9	657.7	657.9	658.3	657.9	657.7	656.9	654.4	652.5	651.2	649.4
35°	638.6	639.1	640.8	639.7	640.8	639.1	638.6	635.5	633.4	630.2	627.5
37.5°	613.9	616.3	615.8	616.6	615.8	616.3	613.9	613.0	610.9	608.4	605.3
40°	595.3	596.9	596.3	596.3	596.3	596.9	595.3	594.8	592.7	591.1	588.4
42.5°	576.2	577.4	576.0	575.2	576.0	577.4	576.2	575.3	574.0	571.2	568.2
45°	545.0	544.0	545.6	543.5	545.6	544.0	545.0	543.0	542.4	540.3	537.7
47.5°	510.2	511.2	511.7	513.2	511.7	511.2	510.2	510.4	507.5	506.1	505.3
50°	487.0	490.1	490.1	489.6	490.1	490.1	487.0	485.8	483.7	481.6	481.6
52.5°	464.0	465.5	467.7	467.6	467.7	465.5	464.0	462.2	460.1	457.1	456.3
55°	428.8	429.8	430.9	431.4	430.9	429.8	428.8	424.5	422.9	421.3	418.7
57.5°	392.1	391.7	394.3	395.1	394.3	391.7	392.1	388.4	386.0	381.1	380.4
60°	366.4	366.4	370.6	372.2	370.6	366.4	366.4	362.1	358.4	355.3	354.3
62.5°	338.9	340.6	344.8	342.5	344.8	340.6	338.9	334.3	331.3	327.4	324.6
65°	298.7	303.0	302.5	304.5	302.5	303.0	298.7	296.1	290.2	286.5	283.4
67.5°	256.7	259.3	263.2	263.5	263.2	259.3	256.7	252.5	248.7	244.8	241.0
70°	228.4	231.1	233.2	234.7	233.2	231.1	228.4	224.2	219.9	217.3	213.1
72.5°	200.9	202.3	207.3	205.1	207.3	202.3	200.9	195.8	192.5	190.3	185.6
75°	157.5	161.3	164.4	162.8	164.4	161.3	157.5	153.8	151.2	148.0	143.8
77.5°	116.5	120.2	121.7	120.4	121.7	120.2	116.5	114.1	112.7	106.4	106.0
80°	92.0	91.5	94.6	94.1	94.6	91.5	92.0	88.3	85.6	81.9	81.9
82.5°	67.5	67.0	68.4	68.8	68.4	67.0	67.5	65.4	62.0	60.4	59.1
85°	32.8	34.3	32.2	31.7	32.2	34.3	32.8	30.7	30.7	30.7	30.1
87.5°	13.4	13.5	13.1	12.8	13.1	13.5	13.4	13.3	14.8	13.4	13.2
90°	28.9	29.4	29.8	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0
92.5°	32.6	32.9	33.2	33.4	33.2	32.9	32.6	32.4	31.5	30.1	28.7
95°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	37.6	36.0	34.3
97.5°	40.9	41.1	41.3	41.5	41.3	41.1	40.9	40.6	39.6	37.9	36.1
100°	41.7	41.9	42.1	42.3	42.1	41.9	41.7	41.4	40.4	38.7	36.9
102.5°	41.9	42.3	42.7	43.1	42.7	42.3	41.9	41.5	44.1	49.7	55.2
105°	43.0	43.4	43.9	44.3	43.9	43.4	43.0	42.5	62.2	101.8	141.5
107.5°	228.9	199.0	169.2	139.3	169.2	199.0	228.9	258.8	288.3	317.4	346.5
110°	373.2	341.2	309.2	277.2	309.2	341.2	373.2	405.4	425.1	432.4	439.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	495.8	489.1	482.3	475.5	482.3	489.1	495.8	502.6	505.9	505.8	505.6
115°	590.0	590.9	591.8	592.7	591.8	590.9	590.0	589.2	587.5	585.3	583.1
117.5°	657.9	658.0	658.2	658.4	658.2	658.0	657.9	657.7	656.7	654.9	653.2
120°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	702.7	700.8	699.1
122.5°	747.4	747.6	747.7	747.9	747.7	747.6	747.4	747.2	746.5	745.3	744.0
125°	809.1	809.5	810.0	810.4	810.0	809.5	809.1	808.6	808.2	807.7	807.3
127.5°	871.8	871.4	870.9	870.5	870.9	871.4	871.8	872.3	872.1	871.4	870.7
130°	910.6	910.1	909.7	909.2	909.7	910.1	910.6	911.0	910.8	909.9	909.0
132.5°	946.5	945.9	945.3	944.7	945.3	945.9	946.5	947.2	947.1	946.1	945.2
135°	1001.0	1000.3	999.6	999.0	999.6	1000.3	1001.0	1001.6	1001.6	1001.0	1000.3
137.5°	1051.3	1050.9	1050.4	1050.0	1050.4	1050.9	1051.3	1051.7	1051.4	1050.4	1049.2
140°	1081.9	1081.5	1081.1	1080.6	1081.1	1081.5	1081.9	1082.4	1082.2	1081.3	1080.4
142.5°	1110.6	1110.0	1109.4	1108.8	1109.4	1110.0	1110.6	1111.3	1111.3	1110.5	1109.8
145°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.0	1151.4	1151.0
147.5°	1187.5	1186.5	1185.4	1184.4	1185.4	1186.5	1187.5	1188.5	1188.8	1188.3	1187.9
150°	1210.6	1209.9	1209.2	1208.6	1209.2	1209.9	1210.6	1211.2	1211.4	1210.9	1210.5
152.5°	1231.0	1230.0	1229.0	1227.9	1229.0	1230.0	1231.0	1232.0	1232.1	1231.3	1230.5
155°	1259.0	1257.7	1256.3	1255.0	1256.3	1257.7	1259.0	1260.3	1260.4	1259.3	1258.2
157.5°	1282.9	1281.2	1279.5	1277.8	1279.5	1281.2	1282.9	1284.8	1285.0	1283.5	1282.2
160°	1297.0	1295.4	1293.8	1292.2	1293.8	1295.4	1297.0	1298.5	1298.6	1297.3	1296.0
162.5°	1310.1	1308.7	1307.4	1306.0	1307.4	1308.7	1310.1	1311.5	1311.4	1309.9	1308.4
165°	1327.2	1325.6	1324.0	1322.5	1324.0	1325.6	1327.2	1328.8	1328.7	1326.9	1325.0
167.5°	1339.8	1338.0	1336.2	1334.3	1336.2	1338.0	1339.8	1341.5	1341.5	1339.8	1338.0
170°	1347.1	1345.2	1343.4	1341.6	1343.4	1345.2	1347.1	1348.8	1348.8	1347.1	1345.2
172.5°	1351.6	1349.6	1347.7	1345.6	1347.7	1349.6	1351.6	1353.5	1353.6	1351.8	1350.1
175°	1357.1	1355.3	1353.5	1351.7	1353.5	1355.3	1357.1	1358.9	1359.0	1357.5	1355.8
177.5°	1358.9	1357.2	1355.3	1353.5	1355.3	1357.2	1358.9	1360.7	1360.9	1359.5	1358.0
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1046.3	1046.3	1054.4	1059.4	1065.8	1070.1	1073.0	1076.0	1081.1	1087.8	1095.4
5°	986.5	988.7	1000.3	1011.9	1023.0	1032.5	1040.5	1050.0	1061.6	1075.9	1091.8
7.5°	928.6	936.8	948.5	962.6	978.2	992.0	1006.1	1021.8	1038.1	1059.1	1081.4
10°	891.4	900.4	914.6	932.6	949.0	965.3	982.8	999.8	1020.4	1045.2	1073.8
12.5°	858.8	867.4	882.0	901.7	917.3	935.3	955.3	977.3	1000.5	1030.4	1062.8
15°	813.6	823.6	841.6	851.2	874.9	896.7	915.1	946.8	976.4	1007.1	1044.7
17.5°	776.6	782.2	796.8	814.5	832.2	856.6	880.8	907.3	936.8	974.2	1021.2
20°	751.2	756.0	771.8	790.4	809.4	831.6	853.3	879.7	913.0	952.7	1003.4
22.5°	732.3	737.4	747.8	767.5	785.3	803.8	825.4	856.9	892.3	931.1	986.1
25°	704.7	707.9	714.8	730.6	746.5	767.1	786.2	815.8	852.2	897.7	952.7
27.5°	678.6	681.7	687.4	698.8	713.6	730.3	751.0	776.2	813.2	862.6	921.0
30°	663.0	663.5	668.8	679.3	692.1	705.8	724.8	753.4	788.3	838.5	899.8
32.5°	649.4	647.4	651.1	659.0	671.4	685.1	700.7	728.8	762.4	811.8	874.8
35°	626.5	625.4	623.9	630.8	641.3	651.9	665.6	686.8	724.8	770.8	836.9
37.5°	603.1	600.6	597.7	600.9	609.2	620.2	632.1	651.0	683.7	734.4	797.6
40°	585.8	583.7	582.1	581.0	588.4	599.0	607.9	625.9	656.6	704.7	767.1
42.5°	566.7	565.5	563.5	562.0	568.2	576.1	585.5	601.5	632.1	677.2	736.3
45°	536.0	535.0	534.0	532.9	536.6	544.0	551.4	563.0	589.5	633.4	686.8
47.5°	501.9	500.6	501.0	499.3	502.9	507.9	513.0	525.5	550.9	586.3	625.3
50°	477.4	476.9	476.9	476.9	478.0	483.7	488.5	498.1	521.3	556.7	584.7
52.5°	454.1	451.9	451.9	452.7	454.6	458.4	461.4	471.8	492.1	521.2	546.6
55°	417.7	413.4	412.3	413.4	415.1	418.2	421.3	429.8	447.3	469.0	483.7
57.5°	377.3	375.0	373.5	373.8	374.7	377.2	379.6	388.8	402.5	413.8	423.3
60°	348.9	350.0	345.3	346.3	346.3	348.4	352.1	357.9	369.5	377.5	387.0
62.5°	322.2	320.8	319.4	317.9	317.9	318.8	323.8	328.3	338.2	342.3	349.8
65°	280.7	280.7	277.5	278.6	279.1	275.5	278.1	283.4	289.7	291.3	298.2
67.5°	238.6	237.2	235.4	233.8	233.8	233.5	234.8	237.5	242.3	242.8	248.0
70°	209.8	208.8	208.3	206.7	204.6	207.2	205.6	208.3	211.0	211.5	214.6
72.5°	182.0	180.9	180.0	178.3	177.5	177.2	177.3	180.4	182.2	181.5	185.0
75°	142.2	141.2	140.1	137.4	137.4	135.8	136.4	138.6	140.7	139.1	142.2
77.5°	104.4	101.2	101.0	101.7	99.9	100.3	99.6	99.3	100.3	100.4	103.2
80°	80.4	76.6	77.8	77.2	76.6	76.1	75.0	75.6	76.1	76.6	78.3
82.5°	58.0	57.7	56.6	56.5	55.9	54.5	53.9	54.8	55.4	55.1	56.2
85°	29.6	28.0	29.1	28.6	29.1	28.6	27.0	27.0	28.0	27.5	28.6
87.5°	13.9	13.7	12.7	12.5	11.5	11.4	10.5	10.4	10.4	10.0	10.4
90°	25.0	24.2	21.3	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0
92.5°	27.3	25.9	23.6	21.4	19.2	17.1	16.3	16.9	17.5	18.1	18.8
95°	32.8	31.2	28.8	26.4	23.8	21.4	24.7	33.9	43.1	52.3	61.5
97.5°	34.2	32.4	48.6	64.7	80.9	96.9	107.0	111.2	115.3	119.5	123.6
100°	35.0	33.2	68.2	103.1	138.0	173.0	188.2	183.8	179.4	174.8	170.4
102.5°	60.8	66.3	104.5	142.7	180.9	219.0	236.5	233.3	230.0	226.8	223.6
105°	181.1	220.8	241.0	261.1	281.2	301.3	310.2	307.8	305.3	302.9	300.3
107.5°	375.6	404.7	401.4	398.3	395.1	391.9	389.3	387.4	385.4	383.4	381.4
110°	447.2	454.6	452.1	449.7	447.2	444.7	442.6	440.8	439.0	437.3	435.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	505.5	505.4	502.9	500.5	498.1	495.5	493.5	491.9	490.3	488.7	487.1
115°	580.9	578.6	576.5	574.5	572.5	570.6	568.9	567.5	566.1	564.8	563.5
117.5°	651.4	649.5	648.5	647.5	646.4	645.4	644.1	642.5	640.8	639.1	637.4
120°	697.3	695.5	694.9	694.2	693.5	692.9	691.5	689.4	687.4	685.4	683.4
122.5°	742.8	741.4	740.6	739.8	738.9	738.1	736.8	735.2	733.5	731.8	730.2
125°	806.9	806.4	805.5	804.6	803.8	802.8	801.4	799.7	797.9	796.1	794.3
127.5°	870.0	869.3	868.2	867.2	866.1	864.9	863.5	861.7	860.0	858.2	856.4
130°	908.1	907.2	906.3	905.4	904.5	903.6	902.3	900.5	898.7	896.9	895.1
132.5°	944.4	943.5	942.8	942.0	941.3	940.6	939.4	937.6	935.7	934.0	932.2
135°	999.6	999.0	998.0	997.1	996.2	995.3	994.2	992.9	991.5	990.2	988.9
137.5°	1048.1	1047.1	1046.6	1046.1	1045.6	1045.1	1044.0	1042.4	1040.7	1038.9	1037.2
140°	1079.4	1078.5	1077.9	1077.2	1076.5	1075.9	1074.9	1073.5	1072.2	1070.9	1069.4
142.5°	1109.1	1108.4	1107.7	1107.0	1106.4	1105.7	1104.7	1103.4	1102.0	1100.7	1099.3
145°	1150.5	1150.1	1149.6	1149.2	1148.8	1148.3	1147.3	1145.8	1144.2	1142.7	1141.0
147.5°	1187.5	1187.0	1186.6	1186.1	1185.7	1185.2	1184.5	1183.5	1182.5	1181.4	1180.3
150°	1210.0	1209.6	1209.1	1208.7	1208.2	1207.8	1207.2	1206.6	1205.9	1205.3	1204.6
152.5°	1229.7	1228.9	1228.7	1228.4	1228.1	1227.9	1227.6	1227.3	1227.0	1226.7	1226.3
155°	1257.1	1256.0	1255.8	1255.5	1255.3	1255.1	1255.2	1255.7	1256.1	1256.5	1257.0
157.5°	1280.9	1279.5	1279.8	1280.0	1280.2	1280.4	1280.6	1280.6	1280.7	1280.7	1280.7
160°	1294.6	1293.2	1293.4	1293.7	1293.9	1294.1	1294.3	1294.6	1294.8	1295.1	1295.3
162.5°	1306.9	1305.4	1305.6	1305.8	1306.1	1306.3	1306.7	1307.3	1307.8	1308.4	1309.0
165°	1323.2	1321.5	1321.7	1321.9	1322.1	1322.4	1322.8	1323.5	1324.1	1324.8	1325.5
167.5°	1336.2	1334.3	1334.3	1334.3	1334.3	1334.3	1334.8	1335.7	1336.7	1337.6	1338.4
170°	1343.4	1341.6	1341.6	1341.6	1341.6	1341.6	1342.1	1343.0	1343.9	1344.7	1345.6
172.5°	1348.3	1346.5	1346.3	1346.2	1345.9	1345.7	1346.3	1347.3	1348.4	1349.5	1350.5
175°	1354.3	1352.7	1352.5	1352.3	1352.0	1351.8	1352.3	1353.4	1354.5	1355.6	1356.8
177.5°	1356.6	1355.1	1354.9	1354.8	1354.6	1354.4	1354.8	1355.6	1356.6	1357.5	1358.4
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



TEST NUMBER: P331982-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1097.9	1100.0	1107.3	1112.4	1118.2	1121.7	1125.0	1127.6	1130.9	1131.8	1144.1
5°	1102.9	1113.4	1132.0	1145.7	1162.6	1181.0	1193.8	1199.6	1214.9	1227.6	1252.9
7.5°	1101.5	1124.0	1151.9	1180.8	1211.9	1240.7	1265.7	1295.3	1316.4	1348.0	1379.1
10°	1100.1	1130.3	1166.3	1203.3	1246.7	1286.8	1322.7	1362.9	1396.2	1440.2	1477.6
12.5°	1096.4	1132.9	1182.8	1226.6	1279.2	1334.6	1387.9	1439.5	1468.9	1542.1	1576.6
15°	1087.0	1130.3	1192.8	1259.3	1331.7	1397.4	1465.0	1518.9	1606.1	1670.1	1710.8
17.5°	1069.0	1129.7	1203.7	1284.0	1372.1	1458.5	1535.2	1617.0	1709.5	1787.0	1869.5
20°	1060.6	1127.1	1209.6	1298.5	1389.9	1487.7	1575.0	1673.2	1774.2	1850.4	1956.1
22.5°	1044.9	1120.3	1209.2	1308.2	1405.9	1507.1	1609.2	1708.4	1825.0	1930.0	2030.5
25°	1019.3	1103.9	1195.9	1306.4	1421.1	1522.6	1644.8	1776.4	1897.9	2032.8	2133.2
27.5°	992.4	1082.8	1175.0	1277.7	1401.1	1521.6	1675.2	1823.9	1972.7	2089.0	2163.3
30°	971.7	1059.4	1154.7	1258.3	1380.4	1523.7	1695.5	1857.7	2002.7	2102.5	2144.3
32.5°	949.3	1038.3	1122.5	1231.2	1361.4	1522.4	1708.2	1877.6	2004.4	2070.8	2062.8
35°	914.1	988.7	1070.6	1175.3	1328.6	1513.1	1715.6	1879.5	1957.2	1942.9	1835.0
37.5°	863.3	926.0	1006.7	1121.4	1290.5	1493.5	1700.8	1823.7	1818.7	1702.4	1546.2
40°	831.6	885.0	962.7	1083.3	1260.9	1480.9	1677.5	1757.4	1689.7	1527.3	1340.2
42.5°	790.2	839.3	917.1	1041.0	1228.3	1455.0	1633.1	1656.3	1523.9	1337.1	1165.5
45°	725.9	769.2	849.6	977.5	1179.5	1398.9	1524.7	1468.1	1290.0	1097.0	966.4
47.5°	656.8	701.9	779.2	910.6	1108.8	1314.4	1374.3	1254.1	1071.1	914.6	794.8
50°	613.3	656.6	732.3	864.9	1061.1	1245.1	1269.9	1114.5	946.3	808.9	710.5
52.5°	569.3	610.1	684.4	817.6	1005.2	1164.7	1149.3	991.0	836.4	719.2	642.1
55°	503.8	542.4	613.3	738.0	908.8	1035.1	979.7	828.5	700.5	609.6	550.9
57.5°	445.2	482.3	543.4	656.1	804.6	891.4	820.7	693.3	591.6	521.6	477.9
60°	405.5	438.3	496.4	601.1	730.1	796.2	726.4	613.8	528.2	472.1	433.0
62.5°	367.9	396.4	450.3	545.3	657.3	712.9	642.3	546.9	474.0	424.3	391.1
65°	310.8	336.8	384.4	458.4	550.4	587.3	526.5	449.4	392.8	355.8	333.6
67.5°	258.8	280.8	321.9	380.2	447.9	474.8	428.6	368.8	326.2	296.5	278.8
70°	224.2	243.2	275.5	325.7	387.0	407.6	364.3	315.1	283.9	260.1	243.7
72.5°	195.0	208.9	238.2	277.0	328.2	344.6	314.4	271.1	242.1	224.2	211.2
75°	148.6	160.2	179.3	210.5	245.8	255.4	232.6	205.6	186.1	173.4	163.4
77.5°	107.1	115.6	129.5	148.7	173.2	181.8	167.3	149.4	135.1	126.5	121.0
80°	80.9	87.8	99.4	115.2	130.1	134.8	126.3	112.6	102.6	97.9	93.0
82.5°	59.8	63.6	70.6	81.4	91.6	97.1	90.0	81.7	76.3	72.0	70.2
85°	30.1	32.2	35.4	39.7	45.9	48.1	45.4	43.3	40.2	37.6	37.6
87.5°	11.6	12.1	13.8	15.1	17.3	19.2	19.3	19.1	19.2	19.0	18.7
90°	3.2	5.5	7.8	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0
92.5°	18.1	17.5	16.9	16.3	17.1	19.2	21.4	23.6	25.9	27.3	28.7
95°	52.3	43.1	33.9	24.7	21.4	23.8	26.4	28.8	31.2	32.8	34.3
97.5°	119.5	115.3	111.2	107.0	96.9	80.9	64.7	48.6	32.4	34.2	36.1
100°	174.8	179.4	183.8	188.2	173.0	138.0	103.1	68.2	33.2	35.0	36.9
102.5°	226.8	230.0	233.3	236.5	219.0	180.9	142.7	104.5	66.3	60.8	55.2
105°	302.9	305.3	307.8	310.2	301.3	281.2	261.1	241.0	220.8	181.1	141.5
107.5°	383.4	385.4	387.4	389.3	391.9	395.1	398.3	401.4	404.7	375.6	346.5
110°	437.3	439.0	440.8	442.6	444.7	447.2	449.7	452.1	454.6	447.2	439.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	488.7	490.3	491.9	493.5	495.5	498.1	500.5	502.9	505.4	505.5	505.6
115°	564.8	566.1	567.5	568.9	570.6	572.5	574.5	576.5	578.6	580.9	583.1
117.5°	639.1	640.8	642.5	644.1	645.4	646.4	647.5	648.5	649.5	651.4	653.2
120°	685.4	687.4	689.4	691.5	692.9	693.5	694.2	694.9	695.5	697.3	699.1
122.5°	731.8	733.5	735.2	736.8	738.1	738.9	739.8	740.6	741.4	742.8	744.0
125°	796.1	797.9	799.7	801.4	802.8	803.8	804.6	805.5	806.4	806.9	807.3
127.5°	858.2	860.0	861.7	863.5	864.9	866.1	867.2	868.2	869.3	870.0	870.7
130°	896.9	898.7	900.5	902.3	903.6	904.5	905.4	906.3	907.2	908.1	909.0
132.5°	934.0	935.7	937.6	939.4	940.6	941.3	942.0	942.8	943.5	944.4	945.2
135°	990.2	991.5	992.9	994.2	995.3	996.2	997.1	998.0	999.0	999.6	1000.3
137.5°	1038.9	1040.7	1042.4	1044.0	1045.1	1045.6	1046.1	1046.6	1047.1	1048.1	1049.2
140°	1070.9	1072.2	1073.5	1074.9	1075.9	1076.5	1077.2	1077.9	1078.5	1079.4	1080.4
142.5°	1100.7	1102.0	1103.4	1104.7	1105.7	1106.4	1107.0	1107.7	1108.4	1109.1	1109.8
145°	1142.7	1144.2	1145.8	1147.3	1148.3	1148.8	1149.2	1149.6	1150.1	1150.5	1151.0
147.5°	1181.4	1182.5	1183.5	1184.5	1185.2	1185.7	1186.1	1186.6	1187.0	1187.5	1187.9
150°	1205.3	1205.9	1206.6	1207.2	1207.8	1208.2	1208.7	1209.1	1209.6	1210.0	1210.5
152.5°	1226.7	1227.0	1227.3	1227.6	1227.9	1228.1	1228.4	1228.7	1228.9	1229.7	1230.5
155°	1256.5	1256.1	1255.7	1255.2	1255.1	1255.3	1255.5	1255.8	1256.0	1257.1	1258.2
157.5°	1280.7	1280.7	1280.6	1280.6	1280.4	1280.2	1280.0	1279.8	1279.5	1280.9	1282.2
160°	1295.1	1294.8	1294.6	1294.3	1294.1	1293.9	1293.7	1293.4	1293.2	1294.6	1296.0
162.5°	1308.4	1307.8	1307.3	1306.7	1306.3	1306.1	1305.8	1305.6	1305.4	1306.9	1308.4
165°	1324.8	1324.1	1323.5	1322.8	1322.4	1322.1	1321.9	1321.7	1321.5	1323.2	1325.0
167.5°	1337.6	1336.7	1335.7	1334.8	1334.3	1334.3	1334.3	1334.3	1334.3	1336.2	1338.0
170°	1344.7	1343.9	1343.0	1342.1	1341.6	1341.6	1341.6	1341.6	1341.6	1343.4	1345.2
172.5°	1349.5	1348.4	1347.3	1346.3	1345.7	1345.9	1346.2	1346.3	1346.5	1348.3	1350.1
175°	1355.6	1354.5	1353.4	1352.3	1351.8	1352.0	1352.3	1352.5	1352.7	1354.3	1355.8
177.5°	1357.5	1356.6	1355.6	1354.8	1354.4	1354.6	1354.8	1354.9	1355.1	1356.6	1358.0
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2	1091.2
2.5°	1148.3	1148.7	1153.4	1156.8	1155.1	1157.2	1158.0
5°	1254.6	1273.6	1283.6	1291.0	1291.6	1292.1	1296.4
7.5°	1405.2	1425.6	1440.6	1463.2	1470.0	1477.6	1475.4
10°	1515.2	1545.3	1571.2	1585.0	1599.8	1621.4	1604.1
12.5°	1618.0	1671.4	1710.8	1732.2	1746.2	1750.5	1741.9
15°	1787.5	1857.2	1894.8	1893.7	1941.4	1962.0	1929.7
17.5°	1942.9	2007.3	2058.9	2085.4	2125.0	2133.7	2129.7
20°	2038.1	2108.4	2148.6	2194.0	2214.6	2233.1	2236.3
22.5°	2120.1	2183.2	2226.3	2264.2	2281.5	2290.3	2295.5
25°	2204.6	2254.3	2280.2	2293.4	2298.1	2297.1	2290.3
27.5°	2198.8	2202.6	2174.0	2146.1	2121.0	2092.7	2083.0
30°	2141.7	2097.3	2018.0	1973.1	1906.9	1854.6	1875.7
32.5°	1991.6	1903.2	1814.1	1715.9	1634.6	1611.4	1588.1
35°	1699.7	1544.3	1453.4	1347.6	1305.4	1263.0	1234.0
37.5°	1375.1	1254.9	1147.0	1077.8	1035.5	1008.8	994.3
40°	1189.0	1080.7	991.8	935.7	903.5	873.4	869.2
42.5°	1040.6	939.8	872.9	828.3	797.4	784.6	775.3
45°	852.2	781.9	737.0	705.3	684.7	676.7	666.1
47.5°	721.3	671.7	637.9	616.3	600.8	594.9	594.0
50°	648.1	606.9	582.1	565.1	553.0	550.9	542.4
52.5°	593.2	557.4	538.1	523.3	514.5	508.6	506.0
55°	514.9	491.1	473.7	465.2	458.4	452.5	452.5
57.5°	450.5	430.7	419.1	411.9	409.8	405.7	403.0
60°	410.8	393.8	384.9	378.5	374.4	374.9	370.1
62.5°	371.8	360.9	352.3	346.0	340.9	341.0	341.3
65°	316.7	308.2	301.8	299.7	296.6	292.9	294.0
67.5°	268.3	260.4	255.5	251.9	250.9	248.8	251.9
70°	233.7	227.8	224.2	221.0	219.9	220.5	223.1
72.5°	202.0	197.8	195.4	193.9	191.6	191.7	193.5
75°	158.6	155.4	153.3	151.7	151.2	151.2	151.2
77.5°	116.5	115.8	114.8	112.5	112.6	113.2	113.3
80°	92.0	90.4	89.9	88.9	87.3	86.1	88.9
82.5°	68.8	67.2	66.7	66.4	63.9	63.7	65.9
85°	37.0	35.4	36.0	35.4	35.4	34.9	34.9
87.5°	18.5	18.3	18.0	18.5	18.2	17.8	18.8
90°	26.9	27.8	28.5	28.9	29.4	29.8	30.2
92.5°	30.1	31.5	32.4	32.6	32.9	33.2	33.4
95°	36.0	37.6	38.3	38.3	38.3	38.3	38.3
97.5°	37.9	39.6	40.6	40.9	41.1	41.3	41.5
100°	38.7	40.4	41.4	41.7	41.9	42.1	42.3
102.5°	49.7	44.1	41.5	41.9	42.3	42.7	43.1
105°	101.8	62.2	42.5	43.0	43.4	43.9	44.3
107.5°	317.4	288.3	258.8	228.9	199.0	169.2	139.3
110°	432.4	425.1	405.4	373.2	341.2	309.2	277.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	505.8	505.9	502.6	495.8	489.1	482.3	475.5
115°	585.3	587.5	589.2	590.0	590.9	591.8	592.7
117.5°	654.9	656.7	657.7	657.9	658.0	658.2	658.4
120°	700.8	702.7	703.6	703.6	703.6	703.6	703.6
122.5°	745.3	746.5	747.2	747.4	747.6	747.7	747.9
125°	807.7	808.2	808.6	809.1	809.5	810.0	810.4
127.5°	871.4	872.1	872.3	871.8	871.4	870.9	870.5
130°	909.9	910.8	911.0	910.6	910.1	909.7	909.2
132.5°	946.1	947.1	947.2	946.5	945.9	945.3	944.7
135°	1001.0	1001.6	1001.6	1001.0	1000.3	999.6	999.0
137.5°	1050.4	1051.4	1051.7	1051.3	1050.9	1050.4	1050.0
140°	1081.3	1082.2	1082.4	1081.9	1081.5	1081.1	1080.6
142.5°	1110.5	1111.3	1111.3	1110.6	1110.0	1109.4	1108.8
145°	1151.4	1152.0	1152.2	1152.2	1152.2	1152.2	1152.2
147.5°	1188.3	1188.8	1188.5	1187.5	1186.5	1185.4	1184.4
150°	1210.9	1211.4	1211.2	1210.6	1209.9	1209.2	1208.6
152.5°	1231.3	1232.1	1232.0	1231.0	1230.0	1229.0	1227.9
155°	1259.3	1260.4	1260.3	1259.0	1257.7	1256.3	1255.0
157.5°	1283.5	1285.0	1284.8	1282.9	1281.2	1279.5	1277.8
160°	1297.3	1298.6	1298.5	1297.0	1295.4	1293.8	1292.2
162.5°	1309.9	1311.4	1311.5	1310.1	1308.7	1307.4	1306.0
165°	1326.9	1328.7	1328.8	1327.2	1325.6	1324.0	1322.5
167.5°	1339.8	1341.5	1341.5	1339.8	1338.0	1336.2	1334.3
170°	1347.1	1348.8	1348.8	1347.1	1345.2	1343.4	1341.6
172.5°	1351.8	1353.6	1353.5	1351.6	1349.6	1347.7	1345.6
175°	1357.5	1359.0	1358.9	1357.1	1355.3	1353.5	1351.7
177.5°	1359.5	1360.9	1360.7	1358.9	1357.2	1355.3	1353.5
180°	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8	1356.8

(END OF REPORT)