

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: P332162-840

Luminaire Tested: **S123DIW-S775D1030U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332162-840
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: S123DIW-S775D1030U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7460.7 lumens
Efficiency: N/A
Efficacy: 141.8 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

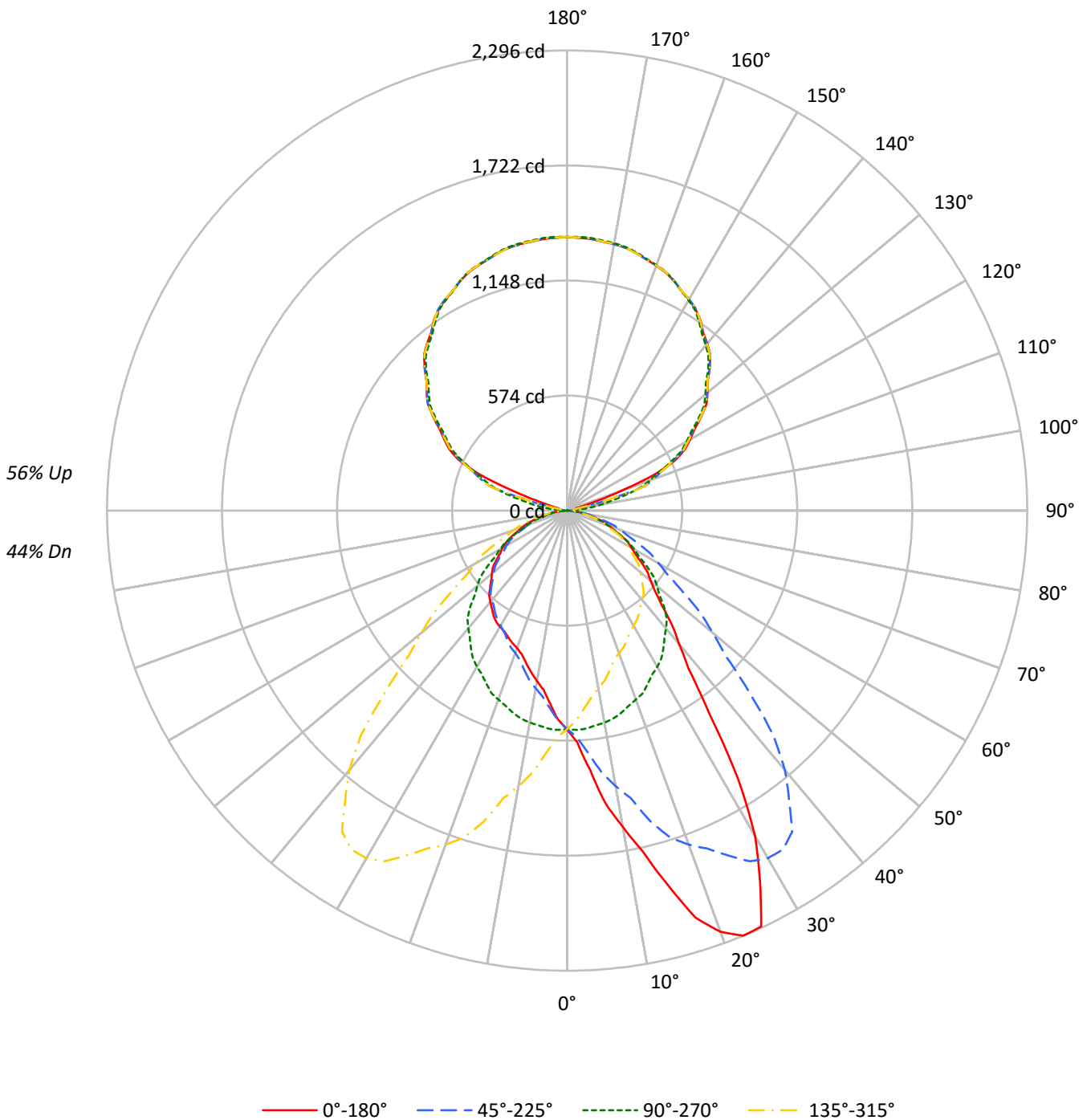
Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	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	54	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	59	55	55	50	47	45	42	39	36	33	32	27				
4	74	63	56	50	67	58	52	46	49	44	40	40	36	33	32	29	27	24				
5	68	56	48	43	62	52	45	40	44	38	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	23	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	27	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°	49.6	0.7
100°-110°	236.6	3.2
110°-120°	568.2	7.6
120°-130°	723.6	9.7
130°-140°	773.1	10.4
140°-150°	723.0	9.7
150°-160°	583.2	7.8
160°-170°	376.4	5.0
170°-180°	129.7	1.7
0°-30°	1030.6	13.8
0°-40°	1685.7	22.6
0°-60°	2747.1	36.8
0°-90°	3297.3	44.2
90°-120°	854.5	11.5
90°-150°	3074.2	41.2
90°-180°	4163.0	55.8
0°-180°	7460.7	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	16
95°	39	62	39	62	39	32
105°	45	302	45	302	45	102
115°	596	567	596	567	596	551
125°	816	799	816	799	816	728
135°	1005	995	1005	995	1005	775
145°	1159	1148	1159	1148	1159	724
155°	1263	1265	1263	1265	1263	582
165°	1331	1334	1331	1334	1331	376
175°	1360	1365	1360	1365	1360	129
180°	1365	1365	1365	1365	1365	



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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	17.9	18.2	18.5	18.0	18.3	18.5	18.8	19.0	19.3	19.1
90°	30.4	30.0	29.5	29.1	28.6	28.0	27.1	26.2	25.2	24.3	21.4
92.5°	33.6	33.4	33.1	32.8	32.6	31.7	30.3	28.9	27.4	26.0	23.7
95°	38.6	38.6	38.6	38.6	38.6	37.8	36.2	34.6	33.0	31.4	29.0
97.5°	41.8	41.6	41.3	41.1	40.9	39.9	38.1	36.3	34.4	32.6	48.9
100°	42.6	42.4	42.1	41.9	41.7	40.7	38.9	37.1	35.2	33.4	68.7
102.5°	43.4	43.0	42.6	42.2	41.8	44.3	50.0	55.5	61.2	66.8	105.1
105°	44.6	44.1	43.7	43.3	42.8	62.5	102.4	142.4	182.3	222.2	242.5
107.5°	140.2	170.3	200.4	230.4	260.4	290.1	319.4	348.6	377.9	407.2	403.9
110°	278.9	311.1	343.4	375.7	407.9	427.7	435.2	442.6	450.0	457.5	454.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	478.6	485.3	492.2	499.0	505.7	509.1	509.0	508.9	508.7	508.6	506.1
115°	596.4	595.5	594.6	593.7	592.8	591.3	589.0	586.7	584.5	582.2	580.2
117.5°	662.6	662.4	662.2	662.0	661.9	660.9	659.0	657.2	655.4	653.6	652.6
120°	708.0	708.0	708.0	708.0	708.0	707.1	705.3	703.5	701.7	699.8	699.2
122.5°	752.7	752.5	752.2	752.0	751.9	751.1	749.9	748.6	747.4	746.1	745.3
125°	815.5	815.1	814.6	814.2	813.7	813.2	812.8	812.3	811.9	811.4	810.5
127.5°	876.0	876.5	876.9	877.3	877.8	877.7	876.9	876.2	875.5	874.7	873.6
130°	914.9	915.3	915.8	916.3	916.8	916.5	915.5	914.7	913.8	912.9	912.0
132.5°	950.6	951.3	951.9	952.5	953.1	953.0	952.1	951.2	950.3	949.4	948.7
135°	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8	1007.2	1006.5	1005.8	1005.2	1004.3
137.5°	1056.5	1056.9	1057.4	1057.8	1058.3	1058.0	1056.9	1055.8	1054.7	1053.7	1053.2
140°	1087.3	1087.8	1088.2	1088.7	1089.1	1088.9	1088.0	1087.1	1086.2	1085.3	1084.6
142.5°	1115.7	1116.4	1117.0	1117.6	1118.2	1118.2	1117.5	1116.8	1116.1	1115.3	1114.7
145°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.1	1158.7	1158.2	1157.8	1157.3	1156.9
147.5°	1191.8	1192.9	1193.9	1195.0	1196.0	1196.3	1195.8	1195.4	1194.9	1194.5	1194.0
150°	1216.2	1216.9	1217.5	1218.2	1218.9	1219.0	1218.5	1218.1	1217.6	1217.2	1216.7
152.5°	1235.7	1236.7	1237.7	1238.7	1239.8	1239.9	1239.1	1238.3	1237.5	1236.7	1236.4
155°	1262.8	1264.1	1265.6	1266.9	1268.2	1268.4	1267.2	1266.1	1265.0	1263.8	1263.6
157.5°	1285.8	1287.5	1289.3	1291.0	1292.7	1292.9	1291.6	1290.3	1288.9	1287.6	1287.8
160°	1300.3	1301.9	1303.5	1305.0	1306.7	1306.8	1305.5	1304.0	1302.7	1301.4	1301.6
162.5°	1314.1	1315.6	1317.0	1318.4	1319.7	1319.7	1318.2	1316.6	1315.0	1313.5	1313.7
165°	1330.8	1332.3	1333.9	1335.5	1337.1	1337.0	1335.1	1333.3	1331.6	1329.8	1330.0
167.5°	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0	1348.2	1346.4	1344.5	1342.7	1342.7
170°	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3	1355.4	1353.6	1351.8	1350.1	1350.1
172.5°	1354.1	1356.0	1358.1	1360.1	1362.0	1362.1	1360.3	1358.6	1356.8	1354.9	1354.7
175°	1360.2	1362.0	1363.8	1365.6	1367.5	1367.6	1365.9	1364.3	1362.8	1361.2	1361.0
177.5°	1362.0	1363.8	1365.6	1367.5	1369.3	1369.4	1368.0	1366.5	1365.1	1363.6	1363.4
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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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°	19.4	19.2	17.4	15.1	13.8	12.1	11.6	10.4	10.0	10.4	10.4
90°	18.5	15.6	12.6	10.0	7.8	5.6	3.2	1.0	3.2	5.6	7.8
92.5°	21.5	19.4	17.2	16.4	17.0	17.6	18.3	18.9	18.3	17.6	17.0
95°	26.5	24.0	21.5	24.9	34.1	43.4	52.6	61.9	52.6	43.4	34.1
97.5°	65.1	81.4	97.6	107.8	111.9	116.0	120.2	124.3	120.2	116.0	111.9
100°	103.8	139.0	174.1	189.5	184.9	180.5	175.9	171.4	175.9	180.5	184.9
102.5°	143.6	182.0	220.4	237.9	234.7	231.5	228.2	225.0	228.2	231.5	234.7
105°	262.7	283.0	303.3	312.1	309.7	307.2	304.8	302.3	304.8	307.2	309.7
107.5°	400.7	397.6	394.4	391.7	389.8	387.8	385.8	383.8	385.8	387.8	389.8
110°	452.5	450.0	447.6	445.4	443.6	441.8	440.0	438.2	440.0	441.8	443.6



TEST NUMBER: P332162-840

CATALOG NUMBER: S123DIW-S775D1030U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	503.6	501.1	498.7	496.7	495.0	493.3	491.7	490.1	491.7	493.3	495.0
115°	578.1	576.1	574.1	572.4	571.1	569.7	568.4	567.0	568.4	569.7	571.1
117.5°	651.6	650.6	649.4	648.1	646.4	644.8	643.1	641.5	643.1	644.8	646.4
120°	698.5	697.8	697.2	695.8	693.8	691.8	689.7	687.7	689.7	691.8	693.8
122.5°	744.4	743.6	742.7	741.4	739.7	738.1	736.4	734.8	736.4	738.1	739.7
125°	809.6	808.7	807.9	806.5	804.7	802.8	801.1	799.3	801.1	802.8	804.7
127.5°	872.6	871.5	870.4	869.0	867.2	865.4	863.5	861.7	863.5	865.4	867.2
130°	911.1	910.2	909.3	908.0	906.2	904.3	902.5	900.7	902.5	904.3	906.2
132.5°	948.0	947.3	946.5	945.2	943.4	941.6	939.9	938.1	939.9	941.6	943.4
135°	1003.4	1002.5	1001.6	1000.5	999.1	997.7	996.4	995.0	996.4	997.7	999.1
137.5°	1052.7	1052.2	1051.7	1050.6	1048.8	1047.1	1045.4	1043.7	1045.4	1047.1	1048.8
140°	1084.0	1083.3	1082.6	1081.6	1080.3	1078.9	1077.5	1076.2	1077.5	1078.9	1080.3
142.5°	1114.0	1113.3	1112.7	1111.7	1110.2	1108.9	1107.5	1106.2	1107.5	1108.9	1110.2
145°	1156.4	1156.0	1155.5	1154.5	1153.0	1151.3	1149.7	1148.2	1149.7	1151.3	1153.0
147.5°	1193.6	1193.1	1192.7	1191.9	1190.8	1189.8	1188.8	1187.8	1188.8	1189.8	1190.8
150°	1216.3	1215.8	1215.4	1214.8	1214.2	1213.5	1212.7	1212.1	1212.7	1213.5	1214.2
152.5°	1236.1	1235.9	1235.6	1235.3	1235.0	1234.7	1234.4	1234.1	1234.4	1234.7	1235.0
155°	1263.3	1263.1	1262.9	1263.0	1263.5	1263.9	1264.4	1264.9	1264.4	1263.9	1263.5
157.5°	1288.0	1288.3	1288.5	1288.6	1288.7	1288.7	1288.8	1288.8	1288.8	1288.7	1288.7
160°	1301.8	1302.0	1302.2	1302.5	1302.7	1302.9	1303.1	1303.4	1303.1	1302.9	1302.7
162.5°	1314.0	1314.2	1314.4	1314.8	1315.5	1316.1	1316.6	1317.2	1316.6	1316.1	1315.5
165°	1330.2	1330.4	1330.7	1331.1	1331.8	1332.5	1333.1	1333.8	1333.1	1332.5	1331.8
167.5°	1342.7	1342.7	1342.7	1343.2	1344.1	1345.0	1345.9	1346.8	1345.9	1345.0	1344.1
170°	1350.1	1350.1	1350.1	1350.5	1351.4	1352.3	1353.2	1354.1	1353.2	1352.3	1351.4
172.5°	1354.5	1354.3	1354.2	1354.6	1355.7	1356.9	1357.9	1359.0	1357.9	1356.9	1355.7
175°	1360.8	1360.5	1360.3	1360.8	1361.9	1363.0	1364.1	1365.2	1364.1	1363.0	1361.9
177.5°	1363.3	1363.1	1362.9	1363.3	1364.2	1365.1	1365.9	1366.9	1365.9	1365.1	1364.2
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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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	11.6	12.6	12.7	13.7	13.9	13.2	13.4	14.8	13.3
90°	10.0	12.6	15.6	18.5	21.4	24.3	25.2	26.2	27.1	28.0	28.6
92.5°	16.4	17.2	19.4	21.5	23.7	26.0	27.4	28.9	30.3	31.7	32.6
95°	24.9	21.5	24.0	26.5	29.0	31.4	33.0	34.6	36.2	37.8	38.6
97.5°	107.8	97.6	81.4	65.1	48.9	32.6	34.4	36.3	38.1	39.9	40.9
100°	189.5	174.1	139.0	103.8	68.7	33.4	35.2	37.1	38.9	40.7	41.7
102.5°	237.9	220.4	182.0	143.6	105.1	66.8	61.2	55.5	50.0	44.3	41.8
105°	312.1	303.3	283.0	262.7	242.5	222.2	182.3	142.4	102.4	62.5	42.8
107.5°	391.7	394.4	397.6	400.7	403.9	407.2	377.9	348.6	319.4	290.1	260.4
110°	445.4	447.6	450.0	452.5	454.9	457.5	450.0	442.6	435.2	427.7	407.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	496.7	498.7	501.1	503.6	506.1	508.6	508.7	508.9	509.0	509.1	505.7
115°	572.4	574.1	576.1	578.1	580.2	582.2	584.5	586.7	589.0	591.3	592.8
117.5°	648.1	649.4	650.6	651.6	652.6	653.6	655.4	657.2	659.0	660.9	661.9
120°	695.8	697.2	697.8	698.5	699.2	699.8	701.7	703.5	705.3	707.1	708.0
122.5°	741.4	742.7	743.6	744.4	745.3	746.1	747.4	748.6	749.9	751.1	751.9
125°	806.5	807.9	808.7	809.6	810.5	811.4	811.9	812.3	812.8	813.2	813.7
127.5°	869.0	870.4	871.5	872.6	873.6	874.7	875.5	876.2	876.9	877.7	877.8
130°	908.0	909.3	910.2	911.1	912.0	912.9	913.8	914.7	915.5	916.5	916.8
132.5°	945.2	946.5	947.3	948.0	948.7	949.4	950.3	951.2	952.1	953.0	953.1
135°	1000.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8
137.5°	1050.6	1051.7	1052.2	1052.7	1053.2	1053.7	1054.7	1055.8	1056.9	1058.0	1058.3
140°	1081.6	1082.6	1083.3	1084.0	1084.6	1085.3	1086.2	1087.1	1088.0	1088.9	1089.1
142.5°	1111.7	1112.7	1113.3	1114.0	1114.7	1115.3	1116.1	1116.8	1117.5	1118.2	1118.2
145°	1154.5	1155.5	1156.0	1156.4	1156.9	1157.3	1157.8	1158.2	1158.7	1159.1	1159.3
147.5°	1191.9	1192.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.4	1195.8	1196.3	1196.0
150°	1214.8	1215.4	1215.8	1216.3	1216.7	1217.2	1217.6	1218.1	1218.5	1219.0	1218.9
152.5°	1235.3	1235.6	1235.9	1236.1	1236.4	1236.7	1237.5	1238.3	1239.1	1239.9	1239.8
155°	1263.0	1262.9	1263.1	1263.3	1263.6	1263.8	1265.0	1266.1	1267.2	1268.4	1268.2
157.5°	1288.6	1288.5	1288.3	1288.0	1287.8	1287.6	1288.9	1290.3	1291.6	1292.9	1292.7
160°	1302.5	1302.2	1302.0	1301.8	1301.6	1301.4	1302.7	1304.0	1305.5	1306.8	1306.7
162.5°	1314.8	1314.4	1314.2	1314.0	1313.7	1313.5	1315.0	1316.6	1318.2	1319.7	1319.7
165°	1331.1	1330.7	1330.4	1330.2	1330.0	1329.8	1331.6	1333.3	1335.1	1337.0	1337.1
167.5°	1343.2	1342.7	1342.7	1342.7	1342.7	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0
170°	1350.5	1350.1	1350.1	1350.1	1350.1	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3
172.5°	1354.6	1354.2	1354.3	1354.5	1354.7	1354.9	1356.8	1358.6	1360.3	1362.1	1362.0
175°	1360.8	1360.3	1360.5	1360.8	1361.0	1361.2	1362.8	1364.3	1365.9	1367.6	1367.5
177.5°	1363.3	1362.9	1363.1	1363.3	1363.4	1363.6	1365.1	1366.5	1368.0	1369.4	1369.3
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



TEST NUMBER: P332162-840

CATALOG NUMBER: S123DIW-S775D1030U840-4F0-1E-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	13.2	12.8	13.2	13.5	13.4	13.3	14.8	13.4	13.2
90°	29.1	29.5	30.0	30.4	30.0	29.5	29.1	28.6	28.0	27.1	26.2
92.5°	32.8	33.1	33.4	33.6	33.4	33.1	32.8	32.6	31.7	30.3	28.9
95°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	37.8	36.2	34.6
97.5°	41.1	41.3	41.6	41.8	41.6	41.3	41.1	40.9	39.9	38.1	36.3
100°	41.9	42.1	42.4	42.6	42.4	42.1	41.9	41.7	40.7	38.9	37.1
102.5°	42.2	42.6	43.0	43.4	43.0	42.6	42.2	41.8	44.3	50.0	55.5
105°	43.3	43.7	44.1	44.6	44.1	43.7	43.3	42.8	62.5	102.4	142.4
107.5°	230.4	200.4	170.3	140.2	170.3	200.4	230.4	260.4	290.1	319.4	348.6
110°	375.7	343.4	311.1	278.9	311.1	343.4	375.7	407.9	427.7	435.2	442.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	499.0	492.2	485.3	478.6	485.3	492.2	499.0	505.7	509.1	509.0	508.9
115°	593.7	594.6	595.5	596.4	595.5	594.6	593.7	592.8	591.3	589.0	586.7
117.5°	662.0	662.2	662.4	662.6	662.4	662.2	662.0	661.9	660.9	659.0	657.2
120°	708.0	708.0	708.0	708.0	708.0	708.0	708.0	708.0	707.1	705.3	703.5
122.5°	752.0	752.2	752.5	752.7	752.5	752.2	752.0	751.9	751.1	749.9	748.6
125°	814.2	814.6	815.1	815.5	815.1	814.6	814.2	813.7	813.2	812.8	812.3
127.5°	877.3	876.9	876.5	876.0	876.5	876.9	877.3	877.8	877.7	876.9	876.2
130°	916.3	915.8	915.3	914.9	915.3	915.8	916.3	916.8	916.5	915.5	914.7
132.5°	952.5	951.9	951.3	950.6	951.3	951.9	952.5	953.1	953.0	952.1	951.2
135°	1007.2	1006.5	1005.8	1005.2	1005.8	1006.5	1007.2	1007.8	1007.8	1007.2	1006.5
137.5°	1057.8	1057.4	1056.9	1056.5	1056.9	1057.4	1057.8	1058.3	1058.0	1056.9	1055.8
140°	1088.7	1088.2	1087.8	1087.3	1087.8	1088.2	1088.7	1089.1	1088.9	1088.0	1087.1
142.5°	1117.6	1117.0	1116.4	1115.7	1116.4	1117.0	1117.6	1118.2	1118.2	1117.5	1116.8
145°	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.3	1159.1	1158.7	1158.2
147.5°	1195.0	1193.9	1192.9	1191.8	1192.9	1193.9	1195.0	1196.0	1196.3	1195.8	1195.4
150°	1218.2	1217.5	1216.9	1216.2	1216.9	1217.5	1218.2	1218.9	1219.0	1218.5	1218.1
152.5°	1238.7	1237.7	1236.7	1235.7	1236.7	1237.7	1238.7	1239.8	1239.9	1239.1	1238.3
155°	1266.9	1265.6	1264.1	1262.8	1264.1	1265.6	1266.9	1268.2	1268.4	1267.2	1266.1
157.5°	1291.0	1289.3	1287.5	1285.8	1287.5	1289.3	1291.0	1292.7	1292.9	1291.6	1290.3
160°	1305.0	1303.5	1301.9	1300.3	1301.9	1303.5	1305.0	1306.7	1306.8	1305.5	1304.0
162.5°	1318.4	1317.0	1315.6	1314.1	1315.6	1317.0	1318.4	1319.7	1319.7	1318.2	1316.6
165°	1335.5	1333.9	1332.3	1330.8	1332.3	1333.9	1335.5	1337.1	1337.0	1335.1	1333.3
167.5°	1348.2	1346.4	1344.5	1342.7	1344.5	1346.4	1348.2	1350.0	1350.0	1348.2	1346.4
170°	1355.4	1353.6	1351.8	1350.1	1351.8	1353.6	1355.4	1357.3	1357.3	1355.4	1353.6
172.5°	1360.1	1358.1	1356.0	1354.1	1356.0	1358.1	1360.1	1362.0	1362.1	1360.3	1358.6
175°	1365.6	1363.8	1362.0	1360.2	1362.0	1363.8	1365.6	1367.5	1367.6	1365.9	1364.3
177.5°	1367.5	1365.6	1363.8	1362.0	1363.8	1365.6	1367.5	1369.3	1369.4	1368.0	1366.5
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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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	12.6	11.6	11.4	10.5	10.4	10.4	10.0	10.4
90°	25.2	24.3	21.4	18.5	15.6	12.6	10.0	7.8	5.6	3.2	1.0
92.5°	27.4	26.0	23.7	21.5	19.4	17.2	16.4	17.0	17.6	18.3	18.9
95°	33.0	31.4	29.0	26.5	24.0	21.5	24.9	34.1	43.4	52.6	61.9
97.5°	34.4	32.6	48.9	65.1	81.4	97.6	107.8	111.9	116.0	120.2	124.3
100°	35.2	33.4	68.7	103.8	139.0	174.1	189.5	184.9	180.5	175.9	171.4
102.5°	61.2	66.8	105.1	143.6	182.0	220.4	237.9	234.7	231.5	228.2	225.0
105°	182.3	222.2	242.5	262.7	283.0	303.3	312.1	309.7	307.2	304.8	302.3
107.5°	377.9	407.2	403.9	400.7	397.6	394.4	391.7	389.8	387.8	385.8	383.8
110°	450.0	457.5	454.9	452.5	450.0	447.6	445.4	443.6	441.8	440.0	438.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	508.7	508.6	506.1	503.6	501.1	498.7	496.7	495.0	493.3	491.7	490.1
115°	584.5	582.2	580.2	578.1	576.1	574.1	572.4	571.1	569.7	568.4	567.0
117.5°	655.4	653.6	652.6	651.6	650.6	649.4	648.1	646.4	644.8	643.1	641.5
120°	701.7	699.8	699.2	698.5	697.8	697.2	695.8	693.8	691.8	689.7	687.7
122.5°	747.4	746.1	745.3	744.4	743.6	742.7	741.4	739.7	738.1	736.4	734.8
125°	811.9	811.4	810.5	809.6	808.7	807.9	806.5	804.7	802.8	801.1	799.3
127.5°	875.5	874.7	873.6	872.6	871.5	870.4	869.0	867.2	865.4	863.5	861.7
130°	913.8	912.9	912.0	911.1	910.2	909.3	908.0	906.2	904.3	902.5	900.7
132.5°	950.3	949.4	948.7	948.0	947.3	946.5	945.2	943.4	941.6	939.9	938.1
135°	1005.8	1005.2	1004.3	1003.4	1002.5	1001.6	1000.5	999.1	997.7	996.4	995.0
137.5°	1054.7	1053.7	1053.2	1052.7	1052.2	1051.7	1050.6	1048.8	1047.1	1045.4	1043.7
140°	1086.2	1085.3	1084.6	1084.0	1083.3	1082.6	1081.6	1080.3	1078.9	1077.5	1076.2
142.5°	1116.1	1115.3	1114.7	1114.0	1113.3	1112.7	1111.7	1110.2	1108.9	1107.5	1106.2
145°	1157.8	1157.3	1156.9	1156.4	1156.0	1155.5	1154.5	1153.0	1151.3	1149.7	1148.2
147.5°	1194.9	1194.5	1194.0	1193.6	1193.1	1192.7	1191.9	1190.8	1189.8	1188.8	1187.8
150°	1217.6	1217.2	1216.7	1216.3	1215.8	1215.4	1214.8	1214.2	1213.5	1212.7	1212.1
152.5°	1237.5	1236.7	1236.4	1236.1	1235.9	1235.6	1235.3	1235.0	1234.7	1234.4	1234.1
155°	1265.0	1263.8	1263.6	1263.3	1263.1	1262.9	1263.0	1263.5	1263.9	1264.4	1264.9
157.5°	1288.9	1287.6	1287.8	1288.0	1288.3	1288.5	1288.6	1288.7	1288.7	1288.8	1288.8
160°	1302.7	1301.4	1301.6	1301.8	1302.0	1302.2	1302.5	1302.7	1302.9	1303.1	1303.4
162.5°	1315.0	1313.5	1313.7	1314.0	1314.2	1314.4	1314.8	1315.5	1316.1	1316.6	1317.2
165°	1331.6	1329.8	1330.0	1330.2	1330.4	1330.7	1331.1	1331.8	1332.5	1333.1	1333.8
167.5°	1344.5	1342.7	1342.7	1342.7	1342.7	1342.7	1343.2	1344.1	1345.0	1345.9	1346.8
170°	1351.8	1350.1	1350.1	1350.1	1350.1	1350.1	1350.5	1351.4	1352.3	1353.2	1354.1
172.5°	1356.8	1354.9	1354.7	1354.5	1354.3	1354.2	1354.6	1355.7	1356.9	1357.9	1359.0
175°	1362.8	1361.2	1361.0	1360.8	1360.5	1360.3	1360.8	1361.9	1363.0	1364.1	1365.2
177.5°	1365.1	1363.6	1363.4	1363.3	1363.1	1362.9	1363.3	1364.2	1365.1	1365.9	1366.9
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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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	17.4	19.2	19.4	19.1	19.3	19.0	18.8
90°	3.2	5.6	7.8	10.0	12.6	15.6	18.5	21.4	24.3	25.2	26.2
92.5°	18.3	17.6	17.0	16.4	17.2	19.4	21.5	23.7	26.0	27.4	28.9
95°	52.6	43.4	34.1	24.9	21.5	24.0	26.5	29.0	31.4	33.0	34.6
97.5°	120.2	116.0	111.9	107.8	97.6	81.4	65.1	48.9	32.6	34.4	36.3
100°	175.9	180.5	184.9	189.5	174.1	139.0	103.8	68.7	33.4	35.2	37.1
102.5°	228.2	231.5	234.7	237.9	220.4	182.0	143.6	105.1	66.8	61.2	55.5
105°	304.8	307.2	309.7	312.1	303.3	283.0	262.7	242.5	222.2	182.3	142.4
107.5°	385.8	387.8	389.8	391.7	394.4	397.6	400.7	403.9	407.2	377.9	348.6
110°	440.0	441.8	443.6	445.4	447.6	450.0	452.5	454.9	457.5	450.0	442.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	491.7	493.3	495.0	496.7	498.7	501.1	503.6	506.1	508.6	508.7	508.9
115°	568.4	569.7	571.1	572.4	574.1	576.1	578.1	580.2	582.2	584.5	586.7
117.5°	643.1	644.8	646.4	648.1	649.4	650.6	651.6	652.6	653.6	655.4	657.2
120°	689.7	691.8	693.8	695.8	697.2	697.8	698.5	699.2	699.8	701.7	703.5
122.5°	736.4	738.1	739.7	741.4	742.7	743.6	744.4	745.3	746.1	747.4	748.6
125°	801.1	802.8	804.7	806.5	807.9	808.7	809.6	810.5	811.4	811.9	812.3
127.5°	863.5	865.4	867.2	869.0	870.4	871.5	872.6	873.6	874.7	875.5	876.2
130°	902.5	904.3	906.2	908.0	909.3	910.2	911.1	912.0	912.9	913.8	914.7
132.5°	939.9	941.6	943.4	945.2	946.5	947.3	948.0	948.7	949.4	950.3	951.2
135°	996.4	997.7	999.1	1000.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.5
137.5°	1045.4	1047.1	1048.8	1050.6	1051.7	1052.2	1052.7	1053.2	1053.7	1054.7	1055.8
140°	1077.5	1078.9	1080.3	1081.6	1082.6	1083.3	1084.0	1084.6	1085.3	1086.2	1087.1
142.5°	1107.5	1108.9	1110.2	1111.7	1112.7	1113.3	1114.0	1114.7	1115.3	1116.1	1116.8
145°	1149.7	1151.3	1153.0	1154.5	1155.5	1156.0	1156.4	1156.9	1157.3	1157.8	1158.2
147.5°	1188.8	1189.8	1190.8	1191.9	1192.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.4
150°	1212.7	1213.5	1214.2	1214.8	1215.4	1215.8	1216.3	1216.7	1217.2	1217.6	1218.1
152.5°	1234.4	1234.7	1235.0	1235.3	1235.6	1235.9	1236.1	1236.4	1236.7	1237.5	1238.3
155°	1264.4	1263.9	1263.5	1263.0	1262.9	1263.1	1263.3	1263.6	1263.8	1265.0	1266.1
157.5°	1288.8	1288.7	1288.7	1288.6	1288.5	1288.3	1288.0	1287.8	1287.6	1288.9	1290.3
160°	1303.1	1302.9	1302.7	1302.5	1302.2	1302.0	1301.8	1301.6	1301.4	1302.7	1304.0
162.5°	1316.6	1316.1	1315.5	1314.8	1314.4	1314.2	1314.0	1313.7	1313.5	1315.0	1316.6
165°	1333.1	1332.5	1331.8	1331.1	1330.7	1330.4	1330.2	1330.0	1329.8	1331.6	1333.3
167.5°	1345.9	1345.0	1344.1	1343.2	1342.7	1342.7	1342.7	1342.7	1342.7	1344.5	1346.4
170°	1353.2	1352.3	1351.4	1350.5	1350.1	1350.1	1350.1	1350.1	1350.1	1351.8	1353.6
172.5°	1357.9	1356.9	1355.7	1354.6	1354.2	1354.3	1354.5	1354.7	1354.9	1356.8	1358.6
175°	1364.1	1363.0	1361.9	1360.8	1360.3	1360.5	1360.8	1361.0	1361.2	1362.8	1364.3
177.5°	1365.9	1365.1	1364.2	1363.3	1362.9	1363.1	1363.3	1363.4	1363.6	1365.1	1366.5
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2



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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	17.9	18.8
90°	27.1	28.0	28.6	29.1	29.5	30.0	30.4
92.5°	30.3	31.7	32.6	32.8	33.1	33.4	33.6
95°	36.2	37.8	38.6	38.6	38.6	38.6	38.6
97.5°	38.1	39.9	40.9	41.1	41.3	41.6	41.8
100°	38.9	40.7	41.7	41.9	42.1	42.4	42.6
102.5°	50.0	44.3	41.8	42.2	42.6	43.0	43.4
105°	102.4	62.5	42.8	43.3	43.7	44.1	44.6
107.5°	319.4	290.1	260.4	230.4	200.4	170.3	140.2
110°	435.2	427.7	407.9	375.7	343.4	311.1	278.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	509.0	509.1	505.7	499.0	492.2	485.3	478.6
115°	589.0	591.3	592.8	593.7	594.6	595.5	596.4
117.5°	659.0	660.9	661.9	662.0	662.2	662.4	662.6
120°	705.3	707.1	708.0	708.0	708.0	708.0	708.0
122.5°	749.9	751.1	751.9	752.0	752.2	752.5	752.7
125°	812.8	813.2	813.7	814.2	814.6	815.1	815.5
127.5°	876.9	877.7	877.8	877.3	876.9	876.5	876.0
130°	915.5	916.5	916.8	916.3	915.8	915.3	914.9
132.5°	952.1	953.0	953.1	952.5	951.9	951.3	950.6
135°	1007.2	1007.8	1007.8	1007.2	1006.5	1005.8	1005.2
137.5°	1056.9	1058.0	1058.3	1057.8	1057.4	1056.9	1056.5
140°	1088.0	1088.9	1089.1	1088.7	1088.2	1087.8	1087.3
142.5°	1117.5	1118.2	1118.2	1117.6	1117.0	1116.4	1115.7
145°	1158.7	1159.1	1159.3	1159.3	1159.3	1159.3	1159.3
147.5°	1195.8	1196.3	1196.0	1195.0	1193.9	1192.9	1191.8
150°	1218.5	1219.0	1218.9	1218.2	1217.5	1216.9	1216.2
152.5°	1239.1	1239.9	1239.8	1238.7	1237.7	1236.7	1235.7
155°	1267.2	1268.4	1268.2	1266.9	1265.6	1264.1	1262.8
157.5°	1291.6	1292.9	1292.7	1291.0	1289.3	1287.5	1285.8
160°	1305.5	1306.8	1306.7	1305.0	1303.5	1301.9	1300.3
162.5°	1318.2	1319.7	1319.7	1318.4	1317.0	1315.6	1314.1
165°	1335.1	1337.0	1337.1	1335.5	1333.9	1332.3	1330.8
167.5°	1348.2	1350.0	1350.0	1348.2	1346.4	1344.5	1342.7
170°	1355.4	1357.3	1357.3	1355.4	1353.6	1351.8	1350.1
172.5°	1360.3	1362.1	1362.0	1360.1	1358.1	1356.0	1354.1
175°	1365.9	1367.6	1367.5	1365.6	1363.8	1362.0	1360.2
177.5°	1368.0	1369.4	1369.3	1367.5	1365.6	1363.8	1362.0
180°	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2	1365.2

(END OF REPORT)