

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: P331991-840

Luminaire Tested: **S123DIP-S775D1195U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331991-840  
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-S775D1195U840-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8113.8 lumens  
Efficiency: N/A  
Efficacy: 142.6 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

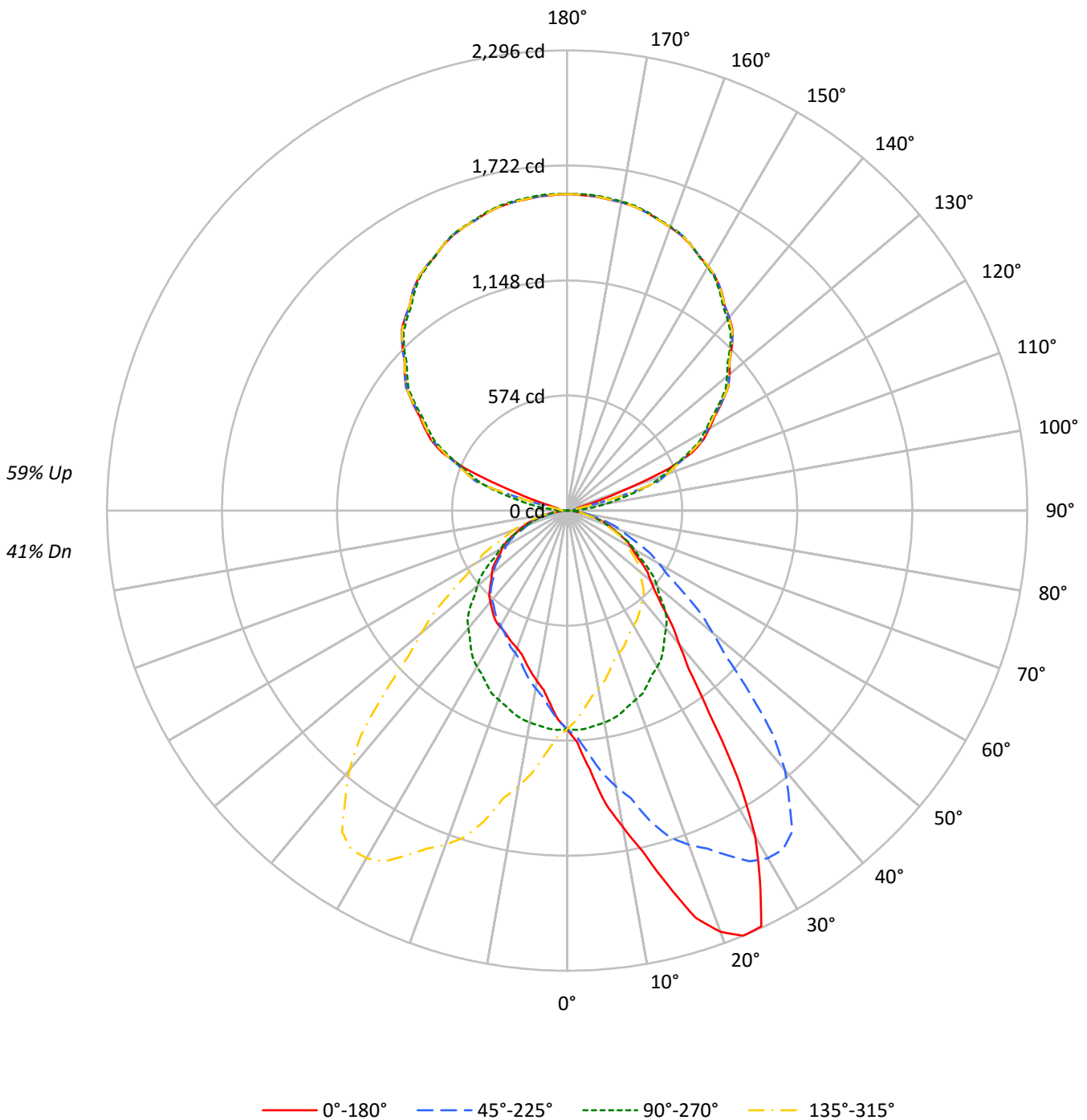
Input Watts (W): 56.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41								
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35								
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	37	36	34	29								
3	80	71	64	58	73	65	59	54	53	49	45	43	40	37	33	31	30	25								
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	28	26	22								
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19								
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17								
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	18	15								
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13								
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12								
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11								

**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	1.3
10°-20°	344.7	4.2
20°-30°	578.5	7.1
30°-40°	655.0	8.1
40°-50°	587.4	7.2
50°-60°	474.0	5.8
60°-70°	330.3	4.1
70°-80°	173.6	2.1
80°-90°	46.9	0.6
90°-100°	57.4	0.7
100°-110°	273.6	3.4
110°-120°	657.3	8.1
120°-130°	837.0	10.3
130°-140°	894.3	11.0
140°-150°	836.3	10.3
150°-160°	674.6	8.3
160°-170°	435.4	5.4
170°-180°	150.0	1.8
0°-30°	1030.6	12.7
0°-40°	1685.7	20.8
0°-60°	2747.1	33.9
0°-90°	3297.9	40.6
90°-120°	988.3	12.2
90°-150°	3555.9	43.8
90°-180°	4816.0	59.4
0°-180°	8113.8	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°	35	1	35	1	35	18
95°	44	72	44	72	44	37
105°	52	350	52	350	52	118
115°	690	656	690	656	690	637
125°	943	924	943	924	943	842
135°	1163	1151	1163	1151	1163	897
145°	1341	1328	1341	1328	1341	837
155°	1461	1463	1461	1463	1461	674
165°	1539	1543	1539	1543	1539	435
175°	1573	1579	1573	1579	1573	150
180°	1579	1579	1579	1579	1579	



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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°	19.7	18.8	19.1	19.4	18.9	19.2	19.4	19.6	19.8	20.0	19.8
90°	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.2	29.2	28.2	24.7
92.5°	39.0	38.7	38.4	38.0	37.7	36.8	35.0	33.3	31.7	30.0	27.5
95°	44.5	44.5	44.5	44.5	44.5	43.6	41.8	40.0	38.2	36.4	33.5
97.5°	48.4	48.1	47.9	47.6	47.3	46.2	44.0	41.9	39.9	37.8	56.6
100°	49.3	49.0	48.8	48.5	48.3	47.1	44.9	42.9	40.8	38.7	79.4
102.5°	50.2	49.8	49.3	48.8	48.4	51.3	57.8	64.2	70.7	77.2	121.6
105°	51.6	51.1	50.6	50.1	49.6	72.3	118.5	164.6	210.8	256.9	280.4
107.5°	162.2	196.9	231.7	266.5	301.2	335.6	369.4	403.2	437.1	471.0	467.3
110°	322.7	359.9	397.2	434.5	471.8	494.7	503.3	511.9	520.6	529.2	526.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	553.5	561.4	569.3	577.1	585.0	589.0	588.8	588.5	588.4	588.2	585.4
115°	689.8	688.8	687.8	686.7	685.7	683.9	681.3	678.6	676.1	673.5	671.2
117.5°	766.4	766.2	766.0	765.8	765.6	764.4	762.3	760.2	758.1	756.1	754.9
120°	818.9	818.9	818.9	818.9	818.9	817.9	815.8	813.7	811.6	809.5	808.8
122.5°	870.6	870.4	870.1	869.9	869.7	868.9	867.5	866.0	864.5	863.0	862.0
125°	943.3	942.8	942.3	941.7	941.2	940.7	940.2	939.7	939.2	938.6	937.6
127.5°	1013.2	1013.8	1014.3	1014.8	1015.3	1015.1	1014.3	1013.5	1012.7	1011.8	1010.6
130°	1058.3	1058.8	1059.3	1059.9	1060.4	1060.2	1059.0	1058.0	1057.0	1055.9	1054.9
132.5°	1099.5	1100.3	1101.1	1101.8	1102.5	1102.4	1101.4	1100.2	1099.2	1098.2	1097.3
135°	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9	1165.1	1164.3	1163.5	1162.8	1161.6
137.5°	1222.0	1222.6	1223.1	1223.7	1224.2	1223.8	1222.5	1221.3	1220.0	1218.8	1218.2
140°	1257.8	1258.3	1258.8	1259.3	1259.8	1259.6	1258.5	1257.5	1256.5	1255.4	1254.7
142.5°	1290.6	1291.3	1292.0	1292.8	1293.5	1293.4	1292.6	1291.8	1291.0	1290.1	1289.4
145°	1341.0	1341.0	1341.0	1341.0	1341.0	1340.8	1340.3	1339.8	1339.2	1338.7	1338.2
147.5°	1378.6	1379.8	1381.0	1382.2	1383.4	1383.7	1383.2	1382.7	1382.2	1381.6	1381.1
150°	1406.7	1407.5	1408.4	1409.1	1409.9	1410.0	1409.5	1409.0	1408.5	1408.0	1407.4
152.5°	1429.3	1430.5	1431.7	1432.9	1434.1	1434.2	1433.3	1432.3	1431.4	1430.5	1430.2
155°	1460.8	1462.3	1463.9	1465.4	1466.9	1467.1	1465.8	1464.5	1463.2	1461.9	1461.7
157.5°	1487.2	1489.2	1491.3	1493.4	1495.4	1495.6	1494.0	1492.5	1491.0	1489.3	1489.7
160°	1504.1	1505.9	1507.8	1509.6	1511.5	1511.6	1510.0	1508.4	1506.9	1505.3	1505.6
162.5°	1520.0	1521.7	1523.3	1524.9	1526.5	1526.5	1524.7	1523.0	1521.2	1519.3	1519.6
165°	1539.3	1541.2	1543.0	1544.8	1546.6	1546.5	1544.4	1542.4	1540.2	1538.1	1538.4
167.5°	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6	1559.4	1557.3	1555.3	1553.2	1553.2
170°	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9	1567.9	1565.8	1563.7	1561.7	1561.7
172.5°	1566.3	1568.6	1570.9	1573.2	1575.5	1575.6	1573.5	1571.5	1569.3	1567.2	1567.0
175°	1573.4	1575.5	1577.5	1579.6	1581.7	1581.9	1580.0	1578.2	1576.4	1574.5	1574.3
177.5°	1575.5	1577.5	1579.6	1581.8	1583.8	1584.0	1582.4	1580.6	1579.0	1577.3	1577.1
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



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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°	19.9	19.7	17.8	15.5	14.0	12.3	11.7	10.4	10.1	10.6	10.7
90°	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2	3.7	6.4	9.0
92.5°	24.9	22.4	19.8	18.9	19.6	20.4	21.1	21.8	21.1	20.4	19.6
95°	30.6	27.8	24.9	28.8	39.5	50.2	60.9	71.6	60.9	50.2	39.5
97.5°	75.3	94.1	112.9	124.6	129.5	134.2	139.1	143.8	139.1	134.2	129.5
100°	120.1	160.8	201.4	219.1	213.9	208.7	203.5	198.2	203.5	208.7	213.9
102.5°	166.0	210.5	254.9	275.3	271.5	267.7	264.0	260.2	264.0	267.7	271.5
105°	303.9	327.3	350.8	361.1	358.2	355.4	352.5	349.6	352.5	355.4	358.2
107.5°	463.5	459.9	456.2	453.1	450.8	448.6	446.3	443.9	446.3	448.6	450.8
110°	523.4	520.6	517.7	515.2	513.1	511.0	509.0	506.9	509.0	511.0	513.1





TEST NUMBER: P331991-840

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	582.6	579.7	576.8	574.4	572.6	570.7	568.8	566.9	568.8	570.7	572.6
115°	668.7	666.4	664.1	662.1	660.6	658.9	657.4	655.9	657.4	658.9	660.6
117.5°	753.7	752.5	751.2	749.7	747.8	745.8	743.9	741.9	743.9	745.8	747.8
120°	808.0	807.2	806.5	804.9	802.5	800.2	797.8	795.5	797.8	800.2	802.5
122.5°	861.1	860.1	859.1	857.7	855.7	853.7	851.8	849.9	851.8	853.7	855.7
125°	936.5	935.4	934.4	932.9	930.8	928.7	926.7	924.5	926.7	928.7	930.8
127.5°	1009.4	1008.0	1006.8	1005.1	1003.1	1001.0	998.9	996.8	998.9	1001.0	1003.1
130°	1053.9	1052.8	1051.8	1050.2	1048.1	1046.0	1044.0	1041.9	1044.0	1046.0	1048.1
132.5°	1096.5	1095.7	1094.8	1093.4	1091.3	1089.2	1087.1	1085.0	1087.1	1089.2	1091.3
135°	1160.6	1159.6	1158.5	1157.2	1155.7	1154.1	1152.6	1150.9	1152.6	1154.1	1155.7
137.5°	1217.7	1217.1	1216.5	1215.3	1213.3	1211.2	1209.3	1207.3	1209.3	1211.2	1213.3
140°	1253.8	1253.0	1252.2	1251.1	1249.5	1248.0	1246.4	1244.9	1246.4	1248.0	1249.5
142.5°	1288.6	1287.8	1287.0	1285.9	1284.2	1282.7	1281.1	1279.6	1281.1	1282.7	1284.2
145°	1337.7	1337.2	1336.7	1335.4	1333.6	1331.8	1330.0	1328.2	1330.0	1331.8	1333.6
147.5°	1380.6	1380.1	1379.6	1378.7	1377.5	1376.3	1375.1	1373.9	1375.1	1376.3	1377.5
150°	1406.8	1406.3	1405.8	1405.2	1404.4	1403.6	1402.8	1402.1	1402.8	1403.6	1404.4
152.5°	1429.9	1429.5	1429.2	1428.9	1428.5	1428.2	1427.7	1427.4	1427.7	1428.2	1428.5
155°	1461.4	1461.1	1460.9	1461.0	1461.5	1462.0	1462.6	1463.1	1462.6	1462.0	1461.5
157.5°	1489.9	1490.2	1490.4	1490.6	1490.6	1490.7	1490.7	1490.8	1490.7	1490.7	1490.6
160°	1505.8	1506.1	1506.3	1506.6	1506.9	1507.1	1507.4	1507.6	1507.4	1507.1	1506.9
162.5°	1519.9	1520.1	1520.5	1520.9	1521.6	1522.3	1523.0	1523.6	1523.0	1522.3	1521.6
165°	1538.6	1538.9	1539.2	1539.7	1540.5	1541.3	1542.1	1542.9	1542.1	1541.3	1540.5
167.5°	1553.2	1553.2	1553.2	1553.7	1554.8	1555.8	1556.8	1557.9	1556.8	1555.8	1554.8
170°	1561.7	1561.7	1561.7	1562.2	1563.2	1564.3	1565.3	1566.3	1565.3	1564.3	1563.2
172.5°	1566.8	1566.6	1566.4	1566.9	1568.2	1569.4	1570.7	1572.0	1570.7	1569.4	1568.2
175°	1574.0	1573.8	1573.5	1574.0	1575.3	1576.6	1577.9	1579.2	1577.9	1576.6	1575.3
177.5°	1576.9	1576.7	1576.5	1576.9	1578.0	1579.0	1580.0	1581.1	1580.0	1579.0	1578.0
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331991-840

CATALOG NUMBER: S123DIP-S775D1195U840-4F0-1E-UDD-A

**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°	10.8	11.8	12.0	13.1	13.4	14.5	14.7	14.0	14.3	15.8	14.2
90°	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.2	31.3	32.3	33.1
92.5°	18.9	19.8	22.4	24.9	27.5	30.0	31.7	33.3	35.0	36.8	37.7
95°	28.8	24.9	27.8	30.6	33.5	36.4	38.2	40.0	41.8	43.6	44.5
97.5°	124.6	112.9	94.1	75.3	56.6	37.8	39.9	41.9	44.0	46.2	47.3
100°	219.1	201.4	160.8	120.1	79.4	38.7	40.8	42.9	44.9	47.1	48.3
102.5°	275.3	254.9	210.5	166.0	121.6	77.2	70.7	64.2	57.8	51.3	48.4
105°	361.1	350.8	327.3	303.9	280.4	256.9	210.8	164.6	118.5	72.3	49.6
107.5°	453.1	456.2	459.9	463.5	467.3	471.0	437.1	403.2	369.4	335.6	301.2
110°	515.2	517.7	520.6	523.4	526.2	529.2	520.6	511.9	503.3	494.7	471.8



TEST NUMBER: P331991-840

CATALOG NUMBER: S123DIP-S775D1195U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	574.4	576.8	579.7	582.6	585.4	588.2	588.4	588.5	588.8	589.0	585.0
115°	662.1	664.1	666.4	668.7	671.2	673.5	676.1	678.6	681.3	683.9	685.7
117.5°	749.7	751.2	752.5	753.7	754.9	756.1	758.1	760.2	762.3	764.4	765.6
120°	804.9	806.5	807.2	808.0	808.8	809.5	811.6	813.7	815.8	817.9	818.9
122.5°	857.7	859.1	860.1	861.1	862.0	863.0	864.5	866.0	867.5	868.9	869.7
125°	932.9	934.4	935.4	936.5	937.6	938.6	939.2	939.7	940.2	940.7	941.2
127.5°	1005.1	1006.8	1008.0	1009.4	1010.6	1011.8	1012.7	1013.5	1014.3	1015.1	1015.3
130°	1050.2	1051.8	1052.8	1053.9	1054.9	1055.9	1057.0	1058.0	1059.0	1060.2	1060.4
132.5°	1093.4	1094.8	1095.7	1096.5	1097.3	1098.2	1099.2	1100.2	1101.4	1102.4	1102.5
135°	1157.2	1158.5	1159.6	1160.6	1161.6	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9
137.5°	1215.3	1216.5	1217.1	1217.7	1218.2	1218.8	1220.0	1221.3	1222.5	1223.8	1224.2
140°	1251.1	1252.2	1253.0	1253.8	1254.7	1255.4	1256.5	1257.5	1258.5	1259.6	1259.8
142.5°	1285.9	1287.0	1287.8	1288.6	1289.4	1290.1	1291.0	1291.8	1292.6	1293.4	1293.5
145°	1335.4	1336.7	1337.2	1337.7	1338.2	1338.7	1339.2	1339.8	1340.3	1340.8	1341.0
147.5°	1378.7	1379.6	1380.1	1380.6	1381.1	1381.6	1382.2	1382.7	1383.2	1383.7	1383.4
150°	1405.2	1405.8	1406.3	1406.8	1407.4	1408.0	1408.5	1409.0	1409.5	1410.0	1409.9
152.5°	1428.9	1429.2	1429.5	1429.9	1430.2	1430.5	1431.4	1432.3	1433.3	1434.2	1434.1
155°	1461.0	1460.9	1461.1	1461.4	1461.7	1461.9	1463.2	1464.5	1465.8	1467.1	1466.9
157.5°	1490.6	1490.4	1490.2	1489.9	1489.7	1489.3	1491.0	1492.5	1494.0	1495.6	1495.4
160°	1506.6	1506.3	1506.1	1505.8	1505.6	1505.3	1506.9	1508.4	1510.0	1511.6	1511.5
162.5°	1520.9	1520.5	1520.1	1519.9	1519.6	1519.3	1521.2	1523.0	1524.7	1526.5	1526.5
165°	1539.7	1539.2	1538.9	1538.6	1538.4	1538.1	1540.2	1542.4	1544.4	1546.5	1546.6
167.5°	1553.7	1553.2	1553.2	1553.2	1553.2	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6
170°	1562.2	1561.7	1561.7	1561.7	1561.7	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9
172.5°	1566.9	1566.4	1566.6	1566.8	1567.0	1567.2	1569.3	1571.5	1573.5	1575.6	1575.5
175°	1574.0	1573.5	1573.8	1574.0	1574.3	1574.5	1576.4	1578.2	1580.0	1581.9	1581.7
177.5°	1576.9	1576.5	1576.7	1576.9	1577.1	1577.3	1579.0	1580.6	1582.4	1584.0	1583.8
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331991-840

CATALOG NUMBER: S123DIP-S775D1195U840-4F0-1E-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°	14.3	14.4	14.1	13.8	14.1	14.4	14.3	14.2	15.8	14.3	14.0
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.2
92.5°	38.0	38.4	38.7	39.0	38.7	38.4	38.0	37.7	36.8	35.0	33.3
95°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	43.6	41.8	40.0
97.5°	47.6	47.9	48.1	48.4	48.1	47.9	47.6	47.3	46.2	44.0	41.9
100°	48.5	48.8	49.0	49.3	49.0	48.8	48.5	48.3	47.1	44.9	42.9
102.5°	48.8	49.3	49.8	50.2	49.8	49.3	48.8	48.4	51.3	57.8	64.2
105°	50.1	50.6	51.1	51.6	51.1	50.6	50.1	49.6	72.3	118.5	164.6
107.5°	266.5	231.7	196.9	162.2	196.9	231.7	266.5	301.2	335.6	369.4	403.2
110°	434.5	397.2	359.9	322.7	359.9	397.2	434.5	471.8	494.7	503.3	511.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	577.1	569.3	561.4	553.5	561.4	569.3	577.1	585.0	589.0	588.8	588.5
115°	686.7	687.8	688.8	689.8	688.8	687.8	686.7	685.7	683.9	681.3	678.6
117.5°	765.8	766.0	766.2	766.4	766.2	766.0	765.8	765.6	764.4	762.3	760.2
120°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	817.9	815.8	813.7
122.5°	869.9	870.1	870.4	870.6	870.4	870.1	869.9	869.7	868.9	867.5	866.0
125°	941.7	942.3	942.8	943.3	942.8	942.3	941.7	941.2	940.7	940.2	939.7
127.5°	1014.8	1014.3	1013.8	1013.2	1013.8	1014.3	1014.8	1015.3	1015.1	1014.3	1013.5
130°	1059.9	1059.3	1058.8	1058.3	1058.8	1059.3	1059.9	1060.4	1060.2	1059.0	1058.0
132.5°	1101.8	1101.1	1100.3	1099.5	1100.3	1101.1	1101.8	1102.5	1102.4	1101.4	1100.2
135°	1165.1	1164.3	1163.5	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9	1165.1	1164.3
137.5°	1223.7	1223.1	1222.6	1222.0	1222.6	1223.1	1223.7	1224.2	1223.8	1222.5	1221.3
140°	1259.3	1258.8	1258.3	1257.8	1258.3	1258.8	1259.3	1259.8	1259.6	1258.5	1257.5
142.5°	1292.8	1292.0	1291.3	1290.6	1291.3	1292.0	1292.8	1293.5	1293.4	1292.6	1291.8
145°	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1340.8	1340.3	1339.8
147.5°	1382.2	1381.0	1379.8	1378.6	1379.8	1381.0	1382.2	1383.4	1383.7	1383.2	1382.7
150°	1409.1	1408.4	1407.5	1406.7	1407.5	1408.4	1409.1	1409.9	1410.0	1409.5	1409.0
152.5°	1432.9	1431.7	1430.5	1429.3	1430.5	1431.7	1432.9	1434.1	1434.2	1433.3	1432.3
155°	1465.4	1463.9	1462.3	1460.8	1462.3	1463.9	1465.4	1466.9	1467.1	1465.8	1464.5
157.5°	1493.4	1491.3	1489.2	1487.2	1489.2	1491.3	1493.4	1495.4	1495.6	1494.0	1492.5
160°	1509.6	1507.8	1505.9	1504.1	1505.9	1507.8	1509.6	1511.5	1511.6	1510.0	1508.4
162.5°	1524.9	1523.3	1521.7	1520.0	1521.7	1523.3	1524.9	1526.5	1526.5	1524.7	1523.0
165°	1544.8	1543.0	1541.2	1539.3	1541.2	1543.0	1544.8	1546.6	1546.5	1544.4	1542.4
167.5°	1559.4	1557.3	1555.3	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6	1559.4	1557.3
170°	1567.9	1565.8	1563.7	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9	1567.9	1565.8
172.5°	1573.2	1570.9	1568.6	1566.3	1568.6	1570.9	1573.2	1575.5	1575.6	1573.5	1571.5
175°	1579.6	1577.5	1575.5	1573.4	1575.5	1577.5	1579.6	1581.7	1581.9	1580.0	1578.2
177.5°	1581.8	1579.6	1577.5	1575.5	1577.5	1579.6	1581.8	1583.8	1584.0	1582.4	1580.6
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



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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°	14.7	14.5	13.4	13.1	12.0	11.8	10.8	10.7	10.6	10.1	10.4
90°	29.2	28.2	24.7	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2
92.5°	31.7	30.0	27.5	24.9	22.4	19.8	18.9	19.6	20.4	21.1	21.8
95°	38.2	36.4	33.5	30.6	27.8	24.9	28.8	39.5	50.2	60.9	71.6
97.5°	39.9	37.8	56.6	75.3	94.1	112.9	124.6	129.5	134.2	139.1	143.8
100°	40.8	38.7	79.4	120.1	160.8	201.4	219.1	213.9	208.7	203.5	198.2
102.5°	70.7	77.2	121.6	166.0	210.5	254.9	275.3	271.5	267.7	264.0	260.2
105°	210.8	256.9	280.4	303.9	327.3	350.8	361.1	358.2	355.4	352.5	349.6
107.5°	437.1	471.0	467.3	463.5	459.9	456.2	453.1	450.8	448.6	446.3	443.9
110°	520.6	529.2	526.2	523.4	520.6	517.7	515.2	513.1	511.0	509.0	506.9



TEST NUMBER: P331991-840

CATALOG NUMBER: S123DIP-S775D1195U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	588.4	588.2	585.4	582.6	579.7	576.8	574.4	572.6	570.7	568.8	566.9
115°	676.1	673.5	671.2	668.7	666.4	664.1	662.1	660.6	658.9	657.4	655.9
117.5°	758.1	756.1	754.9	753.7	752.5	751.2	749.7	747.8	745.8	743.9	741.9
120°	811.6	809.5	808.8	808.0	807.2	806.5	804.9	802.5	800.2	797.8	795.5
122.5°	864.5	863.0	862.0	861.1	860.1	859.1	857.7	855.7	853.7	851.8	849.9
125°	939.2	938.6	937.6	936.5	935.4	934.4	932.9	930.8	928.7	926.7	924.5
127.5°	1012.7	1011.8	1010.6	1009.4	1008.0	1006.8	1005.1	1003.1	1001.0	998.9	996.8
130°	1057.0	1055.9	1054.9	1053.9	1052.8	1051.8	1050.2	1048.1	1046.0	1044.0	1041.9
132.5°	1099.2	1098.2	1097.3	1096.5	1095.7	1094.8	1093.4	1091.3	1089.2	1087.1	1085.0
135°	1163.5	1162.8	1161.6	1160.6	1159.6	1158.5	1157.2	1155.7	1154.1	1152.6	1150.9
137.5°	1220.0	1218.8	1218.2	1217.7	1217.1	1216.5	1215.3	1213.3	1211.2	1209.3	1207.3
140°	1256.5	1255.4	1254.7	1253.8	1253.0	1252.2	1251.1	1249.5	1248.0	1246.4	1244.9
142.5°	1291.0	1290.1	1289.4	1288.6	1287.8	1287.0	1285.9	1284.2	1282.7	1281.1	1279.6
145°	1339.2	1338.7	1338.2	1337.7	1337.2	1336.7	1335.4	1333.6	1331.8	1330.0	1328.2
147.5°	1382.2	1381.6	1381.1	1380.6	1380.1	1379.6	1378.7	1377.5	1376.3	1375.1	1373.9
150°	1408.5	1408.0	1407.4	1406.8	1406.3	1405.8	1405.2	1404.4	1403.6	1402.8	1402.1
152.5°	1431.4	1430.5	1430.2	1429.9	1429.5	1429.2	1428.9	1428.5	1428.2	1427.7	1427.4
155°	1463.2	1461.9	1461.7	1461.4	1461.1	1460.9	1461.0	1461.5	1462.0	1462.6	1463.1
157.5°	1491.0	1489.3	1489.7	1489.9	1490.2	1490.4	1490.6	1490.6	1490.7	1490.7	1490.8
160°	1506.9	1505.3	1505.6	1505.8	1506.1	1506.3	1506.6	1506.9	1507.1	1507.4	1507.6
162.5°	1521.2	1519.3	1519.6	1519.9	1520.1	1520.5	1520.9	1521.6	1522.3	1523.0	1523.6
165°	1540.2	1538.1	1538.4	1538.6	1538.9	1539.2	1539.7	1540.5	1541.3	1542.1	1542.9
167.5°	1555.3	1553.2	1553.2	1553.2	1553.2	1553.2	1553.7	1554.8	1555.8	1556.8	1557.9
170°	1563.7	1561.7	1561.7	1561.7	1561.7	1561.7	1562.2	1563.2	1564.3	1565.3	1566.3
172.5°	1569.3	1567.2	1567.0	1566.8	1566.6	1566.4	1566.9	1568.2	1569.4	1570.7	1572.0
175°	1576.4	1574.5	1574.3	1574.0	1573.8	1573.5	1574.0	1575.3	1576.6	1577.9	1579.2
177.5°	1579.0	1577.3	1577.1	1576.9	1576.7	1576.5	1576.9	1578.0	1579.0	1580.0	1581.1
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331991-840

CATALOG NUMBER: S123DIP-S775D1195U840-4F0-1E-UDD-A

**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°	11.7	12.3	14.0	15.5	17.8	19.7	19.9	19.8	20.0	19.8	19.6
90°	3.7	6.4	9.0	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.2
92.5°	21.1	20.4	19.6	18.9	19.8	22.4	24.9	27.5	30.0	31.7	33.3
95°	60.9	50.2	39.5	28.8	24.9	27.8	30.6	33.5	36.4	38.2	40.0
97.5°	139.1	134.2	129.5	124.6	112.9	94.1	75.3	56.6	37.8	39.9	41.9
100°	203.5	208.7	213.9	219.1	201.4	160.8	120.1	79.4	38.7	40.8	42.9
102.5°	264.0	267.7	271.5	275.3	254.9	210.5	166.0	121.6	77.2	70.7	64.2
105°	352.5	355.4	358.2	361.1	350.8	327.3	303.9	280.4	256.9	210.8	164.6
107.5°	446.3	448.6	450.8	453.1	456.2	459.9	463.5	467.3	471.0	437.1	403.2
110°	509.0	511.0	513.1	515.2	517.7	520.6	523.4	526.2	529.2	520.6	511.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	568.8	570.7	572.6	574.4	576.8	579.7	582.6	585.4	588.2	588.4	588.5
115°	657.4	658.9	660.6	662.1	664.1	666.4	668.7	671.2	673.5	676.1	678.6
117.5°	743.9	745.8	747.8	749.7	751.2	752.5	753.7	754.9	756.1	758.1	760.2
120°	797.8	800.2	802.5	804.9	806.5	807.2	808.0	808.8	809.5	811.6	813.7
122.5°	851.8	853.7	855.7	857.7	859.1	860.1	861.1	862.0	863.0	864.5	866.0
125°	926.7	928.7	930.8	932.9	934.4	935.4	936.5	937.6	938.6	939.2	939.7
127.5°	998.9	1001.0	1003.1	1005.1	1006.8	1008.0	1009.4	1010.6	1011.8	1012.7	1013.5
130°	1044.0	1046.0	1048.1	1050.2	1051.8	1052.8	1053.9	1054.9	1055.9	1057.0	1058.0
132.5°	1087.1	1089.2	1091.3	1093.4	1094.8	1095.7	1096.5	1097.3	1098.2	1099.2	1100.2
135°	1152.6	1154.1	1155.7	1157.2	1158.5	1159.6	1160.6	1161.6	1162.8	1163.5	1164.3
137.5°	1209.3	1211.2	1213.3	1215.3	1216.5	1217.1	1217.7	1218.2	1218.8	1220.0	1221.3
140°	1246.4	1248.0	1249.5	1251.1	1252.2	1253.0	1253.8	1254.7	1255.4	1256.5	1257.5
142.5°	1281.1	1282.7	1284.2	1285.9	1287.0	1287.8	1288.6	1289.4	1290.1	1291.0	1291.8
145°	1330.0	1331.8	1333.6	1335.4	1336.7	1337.2	1337.7	1338.2	1338.7	1339.2	1339.8
147.5°	1375.1	1376.3	1377.5	1378.7	1379.6	1380.1	1380.6	1381.1	1381.6	1382.2	1382.7
150°	1402.8	1403.6	1404.4	1405.2	1405.8	1406.3	1406.8	1407.4	1408.0	1408.5	1409.0
152.5°	1427.7	1428.2	1428.5	1428.9	1429.2	1429.5	1429.9	1430.2	1430.5	1431.4	1432.3
155°	1462.6	1462.0	1461.5	1461.0	1460.9	1461.1	1461.4	1461.7	1461.9	1463.2	1464.5
157.5°	1490.7	1490.7	1490.6	1490.6	1490.4	1490.2	1489.9	1489.7	1489.3	1491.0	1492.5
160°	1507.4	1507.1	1506.9	1506.6	1506.3	1506.1	1505.8	1505.6	1505.3	1506.9	1508.4
162.5°	1523.0	1522.3	1521.6	1520.9	1520.5	1520.1	1519.9	1519.6	1519.3	1521.2	1523.0
165°	1542.1	1541.3	1540.5	1539.7	1539.2	1538.9	1538.6	1538.4	1538.1	1540.2	1542.4
167.5°	1556.8	1555.8	1554.8	1553.7	1553.2	1553.2	1553.2	1553.2	1553.2	1555.3	1557.3
170°	1565.3	1564.3	1563.2	1562.2	1561.7	1561.7	1561.7	1561.7	1561.7	1563.7	1565.8
172.5°	1570.7	1569.4	1568.2	1566.9	1566.4	1566.6	1566.8	1567.0	1567.2	1569.3	1571.5
175°	1577.9	1576.6	1575.3	1574.0	1573.5	1573.8	1574.0	1574.3	1574.5	1576.4	1578.2
177.5°	1580.0	1579.0	1578.0	1576.9	1576.5	1576.7	1576.9	1577.1	1577.3	1579.0	1580.6
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



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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°	19.4	19.2	18.9	19.4	19.1	18.8	19.7
90°	31.3	32.3	33.1	33.6	34.1	34.6	35.2
92.5°	35.0	36.8	37.7	38.0	38.4	38.7	39.0
95°	41.8	43.6	44.5	44.5	44.5	44.5	44.5
97.5°	44.0	46.2	47.3	47.6	47.9	48.1	48.4
100°	44.9	47.1	48.3	48.5	48.8	49.0	49.3
102.5°	57.8	51.3	48.4	48.8	49.3	49.8	50.2
105°	118.5	72.3	49.6	50.1	50.6	51.1	51.6
107.5°	369.4	335.6	301.2	266.5	231.7	196.9	162.2
110°	503.3	494.7	471.8	434.5	397.2	359.9	322.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	588.8	589.0	585.0	577.1	569.3	561.4	553.5
115°	681.3	683.9	685.7	686.7	687.8	688.8	689.8
117.5°	762.3	764.4	765.6	765.8	766.0	766.2	766.4
120°	815.8	817.9	818.9	818.9	818.9	818.9	818.9
122.5°	867.5	868.9	869.7	869.9	870.1	870.4	870.6
125°	940.2	940.7	941.2	941.7	942.3	942.8	943.3
127.5°	1014.3	1015.1	1015.3	1014.8	1014.3	1013.8	1013.2
130°	1059.0	1060.2	1060.4	1059.9	1059.3	1058.8	1058.3
132.5°	1101.4	1102.4	1102.5	1101.8	1101.1	1100.3	1099.5
135°	1165.1	1165.9	1165.9	1165.1	1164.3	1163.5	1162.8
137.5°	1222.5	1223.8	1224.2	1223.7	1223.1	1222.6	1222.0
140°	1258.5	1259.6	1259.8	1259.3	1258.8	1258.3	1257.8
142.5°	1292.6	1293.4	1293.5	1292.8	1292.0	1291.3	1290.6
145°	1340.3	1340.8	1341.0	1341.0	1341.0	1341.0	1341.0
147.5°	1383.2	1383.7	1383.4	1382.2	1381.0	1379.8	1378.6
150°	1409.5	1410.0	1409.9	1409.1	1408.4	1407.5	1406.7
152.5°	1433.3	1434.2	1434.1	1432.9	1431.7	1430.5	1429.3
155°	1465.8	1467.1	1466.9	1465.4	1463.9	1462.3	1460.8
157.5°	1494.0	1495.6	1495.4	1493.4	1491.3	1489.2	1487.2
160°	1510.0	1511.6	1511.5	1509.6	1507.8	1505.9	1504.1
162.5°	1524.7	1526.5	1526.5	1524.9	1523.3	1521.7	1520.0
165°	1544.4	1546.5	1546.6	1544.8	1543.0	1541.2	1539.3
167.5°	1559.4	1561.6	1561.6	1559.4	1557.3	1555.3	1553.2
170°	1567.9	1569.9	1569.9	1567.9	1565.8	1563.7	1561.7
172.5°	1573.5	1575.6	1575.5	1573.2	1570.9	1568.6	1566.3
175°	1580.0	1581.9	1581.7	1579.6	1577.5	1575.5	1573.4
177.5°	1582.4	1584.0	1583.8	1581.8	1579.6	1577.5	1575.5
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2

(END OF REPORT)