

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: P331946

Luminaire Tested: **S123DIP-S560D1195U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331946
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-S560D1195U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 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: 7159.1 lumens
Efficiency: N/A
Efficacy: 144.9 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: Semi-Indirect

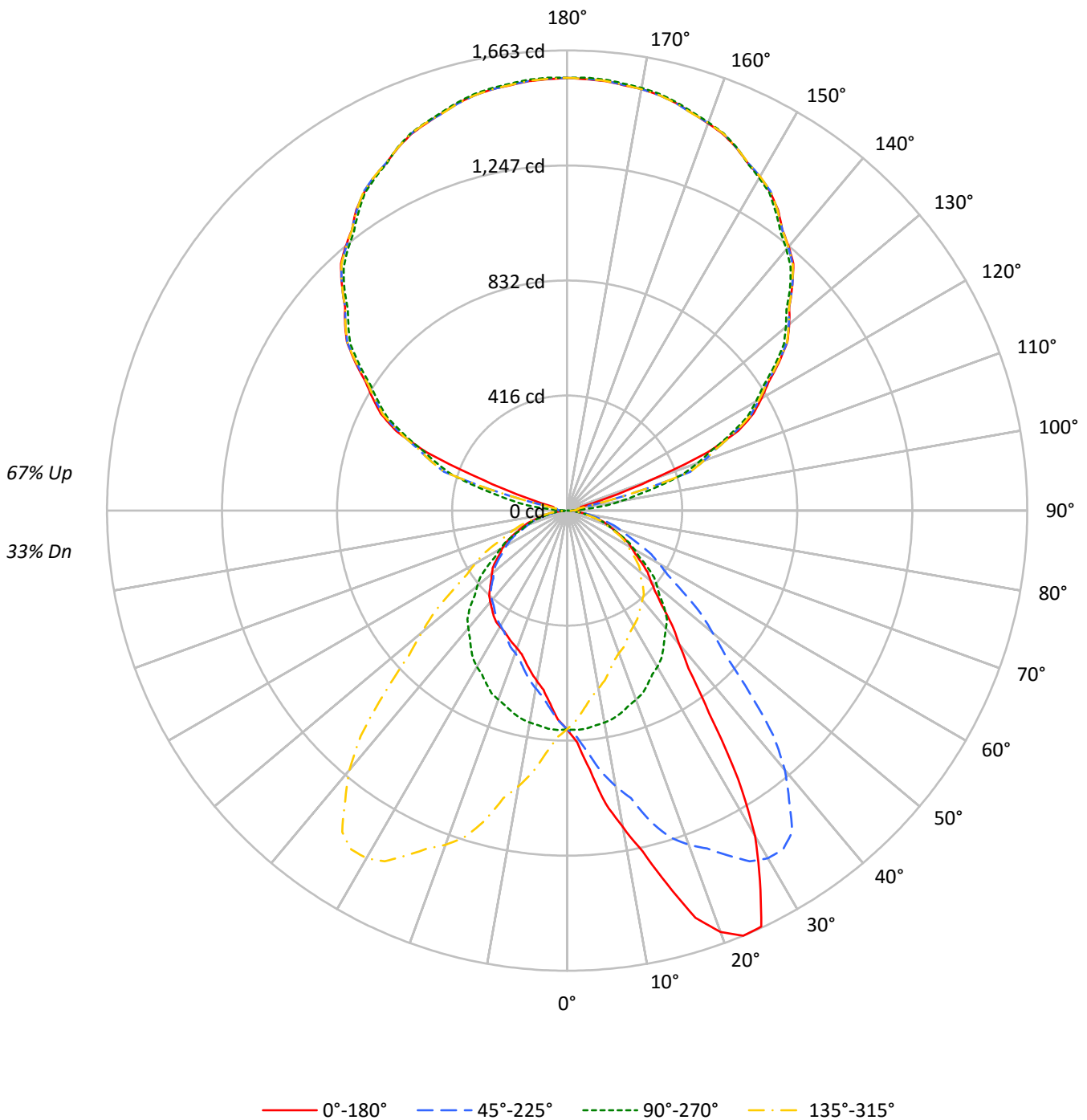
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	36	36	35	28
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30	24
3	78	69	62	57	70	63	57	52	51	46	43	39	36	34	29	27	25	21
4	72	61	54	48	64	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	16
6	61	49	41	36	54	45	38	33	36	31	27	28	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	22	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8509	8509	8509	8509
5°	10147	8546	7573	8546
10°	12701	8502	6840	8502
15°	15578	8433	6367	8433
20°	18558	8326	6063	8326
25°	19705	8197	5995	8197
30°	16890	8103	6027	8103
35°	11746	7967	6089	7967
40°	8847	7808	6070	7808
45°	7346	7573	5993	7573
50°	6581	7093	5940	7093
55°	6152	6576	5864	6576
60°	5772	6036	5804	6036
65°	5422	5501	5619	5501
70°	5086	4894	5350	4894
75°	4554	4284	4907	4284
80°	3986	3515	4228	3515
85°	3125	2556	2841	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.1
10°-20°	249.7	3.5
20°-30°	419.1	5.9
30°-40°	474.5	6.6
40°-50°	425.5	5.9
50°-60°	343.4	4.8
60°-70°	239.3	3.3
70°-80°	125.8	1.8
80°-90°	35.1	0.5
90°-100°	56.9	0.8
100°-110°	271.0	3.8
110°-120°	650.9	9.1
120°-130°	828.8	11.6
130°-140°	885.6	12.4
140°-150°	828.1	11.6
150°-160°	668.0	9.3
160°-170°	431.1	6.0
170°-180°	148.6	2.1
0°-30°	746.6	10.4
0°-40°	1221.1	17.1
0°-60°	1990.1	27.8
0°-90°	2390.3	33.4
90°-120°	978.7	13.7
90°-150°	3521.2	49.2
90°-180°	4769.0	66.6
0°-180°	7159.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	939	791	701	791	939	97
15°	1398	757	571	757	1398	404
25°	1659	690	505	690	1659	728
35°	894	606	463	606	894	581
45°	483	498	394	498	483	382
55°	328	350	312	350	328	294
65°	213	216	221	216	213	212
75°	110	103	118	103	110	117
85°	25	21	23	21	25	31
90°	35	1	35	1	35	17
95°	44	71	44	71	44	37
105°	51	346	51	346	51	117
115°	683	650	683	650	683	631
125°	934	916	934	916	934	834
135°	1151	1140	1151	1140	1151	888
145°	1328	1315	1328	1315	1328	829
155°	1446	1449	1446	1449	1446	667
165°	1524	1528	1524	1528	1524	430
175°	1558	1564	1558	1564	1558	148
180°	1564	1564	1564	1564	1564	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	838.9	838.3	836.8	838.0	835.5	832.2	831.9	828.8	819.9	819.3	816.9
5°	939.1	936.0	935.7	935.3	929.9	922.6	908.8	907.7	889.3	880.1	869.0
7.5°	1068.9	1070.5	1064.9	1060.0	1043.6	1032.8	1018.0	999.1	976.5	953.6	938.3
10°	1162.0	1174.6	1158.9	1148.2	1138.3	1119.5	1097.7	1070.5	1043.3	1011.5	987.4
12.5°	1261.9	1268.1	1265.0	1254.8	1239.4	1210.8	1172.1	1142.2	1117.1	1064.2	1042.8
15°	1397.9	1421.3	1406.4	1371.9	1372.7	1345.5	1294.9	1239.4	1209.9	1163.5	1100.3
17.5°	1542.9	1545.8	1539.4	1510.7	1491.5	1454.2	1407.5	1354.3	1294.5	1238.5	1171.4
20°	1620.1	1617.8	1604.4	1589.4	1556.5	1527.4	1476.4	1417.1	1340.5	1285.3	1212.2
22.5°	1663.0	1659.1	1652.8	1640.3	1612.9	1581.6	1535.9	1471.0	1398.1	1322.1	1237.6
25°	1659.1	1664.1	1664.9	1661.4	1651.9	1633.1	1597.1	1545.4	1472.6	1375.0	1286.9
27.5°	1509.0	1516.0	1536.5	1554.7	1575.0	1595.6	1592.9	1567.2	1513.4	1429.0	1321.3
30°	1358.9	1343.5	1381.5	1429.3	1461.9	1519.3	1551.5	1553.4	1523.2	1450.8	1345.8
32.5°	1150.5	1167.4	1184.1	1243.0	1314.2	1378.7	1442.7	1494.3	1500.2	1452.0	1360.2
35°	893.9	915.0	945.6	976.3	1052.9	1118.7	1231.3	1329.4	1407.5	1417.8	1361.5
37.5°	720.3	730.8	750.1	780.8	830.9	909.1	996.2	1120.1	1233.3	1317.5	1321.2
40°	629.6	632.7	654.5	677.9	718.5	782.8	861.4	970.9	1106.5	1224.1	1273.1
42.5°	561.6	568.4	577.6	600.1	632.4	680.8	753.8	844.4	968.6	1103.9	1199.8
45°	482.6	490.2	496.0	510.9	533.9	566.4	617.4	700.1	794.7	934.5	1063.6
47.5°	430.3	430.9	435.2	446.5	462.1	486.6	522.6	575.7	662.6	775.9	908.5
50°	393.0	399.1	400.6	409.4	421.7	439.7	469.6	514.7	586.0	685.6	807.4
52.5°	366.6	368.4	372.7	379.1	389.8	403.8	429.7	465.1	521.0	605.9	717.9
55°	327.8	327.8	332.1	337.0	343.2	355.8	373.0	399.1	441.6	507.5	600.2
57.5°	292.0	293.9	296.9	298.4	303.6	312.0	326.4	346.2	377.9	428.6	502.3
60°	268.1	271.5	271.2	274.2	278.8	285.3	297.6	313.7	342.0	382.6	444.7
62.5°	247.3	247.0	247.0	250.6	255.2	261.4	269.4	283.3	307.4	343.4	396.2
65°	212.9	212.2	214.9	217.2	218.7	223.3	229.4	241.7	257.8	284.6	325.5
67.5°	182.5	180.2	181.7	182.5	185.1	188.7	194.4	202.0	214.8	236.3	267.2
70°	161.6	159.7	159.3	160.1	162.4	165.1	169.3	176.6	188.4	205.7	228.3
72.5°	140.2	138.9	138.8	140.5	141.6	143.3	146.3	153.0	162.4	175.3	196.4
75°	109.5	109.5	109.5	109.9	111.1	112.6	114.9	118.3	125.6	134.8	149.0
77.5°	82.1	82.0	81.6	81.5	83.2	83.9	84.4	87.6	91.7	97.9	108.2
80°	64.3	62.4	63.2	64.3	65.1	65.5	66.6	67.4	70.9	74.3	81.6
82.5°	47.8	46.2	46.3	48.1	48.3	48.6	49.8	50.9	52.2	55.3	59.2
85°	25.3	25.3	25.7	25.7	26.0	25.7	26.8	27.2	27.2	29.1	31.4
87.5°	16.2	15.4	15.6	15.9	15.4	15.6	15.7	15.8	15.9	16.0	15.6
90°	34.9	34.3	33.8	33.3	32.8	32.0	31.0	29.9	28.9	27.9	24.5
92.5°	38.6	38.3	38.0	37.6	37.3	36.4	34.7	33.0	31.4	29.7	27.2
95°	44.1	44.1	44.1	44.1	44.1	43.2	41.4	39.6	37.8	36.0	33.2
97.5°	47.9	47.6	47.4	47.1	46.8	45.7	43.6	41.5	39.5	37.4	35.0
100°	48.8	48.5	48.3	48.0	47.8	46.6	44.5	42.5	40.4	38.3	36.6
102.5°	49.7	49.3	48.8	48.3	47.9	50.8	57.2	63.6	70.0	76.4	120.4
105°	51.1	50.6	50.1	49.6	49.1	71.6	117.3	163.0	208.7	254.4	277.7
107.5°	160.6	195.0	229.4	263.9	298.3	332.3	365.8	399.3	432.8	466.4	462.7
110°	319.5	356.4	393.3	430.3	467.2	489.9	498.4	506.9	515.5	524.0	521.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	548.1	555.9	563.7	571.5	579.3	583.2	583.0	582.8	582.7	582.5	579.7
115°	683.1	682.1	681.1	680.0	679.0	677.2	674.6	672.0	669.5	666.9	664.6
117.5°	758.9	758.7	758.5	758.3	758.1	756.9	754.9	752.8	750.7	748.7	747.5
120°	810.9	810.9	810.9	810.9	810.9	809.9	807.8	805.8	803.7	801.6	800.9
122.5°	862.1	861.9	861.6	861.4	861.2	860.4	859.0	857.5	856.1	854.6	853.6
125°	934.1	933.6	933.1	932.5	932.0	931.5	931.0	930.5	930.0	929.4	928.4
127.5°	1003.3	1003.9	1004.4	1004.9	1005.4	1005.2	1004.4	1003.6	1002.8	1001.9	1000.7
130°	1048.0	1048.5	1049.0	1049.5	1050.0	1049.8	1048.7	1047.7	1046.7	1045.6	1044.6
132.5°	1088.8	1089.6	1090.3	1091.0	1091.7	1091.6	1090.6	1089.5	1088.5	1087.5	1086.6
135°	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5	1153.7	1152.9	1152.1	1151.4	1150.3
137.5°	1210.1	1210.7	1211.2	1211.7	1212.2	1211.8	1210.6	1209.4	1208.1	1206.9	1206.3
140°	1245.5	1246.0	1246.5	1247.0	1247.5	1247.3	1246.2	1245.2	1244.2	1243.1	1242.4
142.5°	1278.0	1278.7	1279.4	1280.2	1280.9	1280.8	1280.0	1279.2	1278.4	1277.5	1276.8
145°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.7	1327.2	1326.7	1326.1	1325.6	1325.1
147.5°	1365.1	1366.3	1367.5	1368.7	1369.9	1370.2	1369.7	1369.2	1368.7	1368.1	1367.6
150°	1393.0	1393.8	1394.6	1395.3	1396.1	1396.2	1395.7	1395.2	1394.7	1394.2	1393.7
152.5°	1415.3	1416.5	1417.7	1418.9	1420.1	1420.2	1419.3	1418.3	1417.4	1416.5	1416.2
155°	1446.5	1448.0	1449.6	1451.1	1452.6	1452.8	1451.5	1450.2	1448.9	1447.6	1447.4
157.5°	1472.7	1474.7	1476.7	1478.8	1480.8	1481.0	1479.4	1477.9	1476.4	1474.8	1475.1
160°	1489.4	1491.2	1493.1	1494.9	1496.7	1496.8	1495.2	1493.7	1492.2	1490.6	1490.9
162.5°	1505.2	1506.8	1508.4	1510.0	1511.6	1511.6	1509.8	1508.1	1506.3	1504.5	1504.8
165°	1524.3	1526.1	1527.9	1529.7	1531.5	1531.4	1529.3	1527.3	1525.2	1523.1	1523.4
167.5°	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3	1544.2	1542.1	1540.1	1538.0	1538.0
170°	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6	1552.6	1550.5	1548.4	1546.4	1546.4
172.5°	1551.0	1553.3	1555.6	1557.8	1560.1	1560.2	1558.1	1556.1	1554.0	1551.9	1551.7
175°	1558.0	1560.1	1562.1	1564.2	1566.2	1566.4	1564.6	1562.8	1561.0	1559.1	1558.9
177.5°	1560.1	1562.1	1564.2	1566.3	1568.3	1568.5	1566.9	1565.2	1563.6	1561.9	1561.7
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	815.0	812.6	810.1	805.8	802.1	796.9	795.4	793.6	788.1	783.1	779.5
5°	864.8	855.6	842.2	829.9	820.0	806.6	798.9	790.9	779.4	769.1	760.6
7.5°	916.9	898.8	878.0	855.5	834.5	814.2	797.9	783.4	767.3	752.0	740.2
10°	958.3	932.2	903.1	871.7	844.9	818.8	797.0	777.9	757.2	739.2	724.2
12.5°	1005.4	966.8	926.7	888.5	856.8	820.7	794.3	769.9	746.5	724.8	708.0
15°	1061.3	1012.3	964.8	912.3	864.0	818.8	787.4	756.8	729.6	707.4	685.9
17.5°	1112.1	1056.6	994.0	930.2	872.0	818.4	774.4	739.8	705.8	678.6	657.2
20°	1140.9	1077.7	1006.9	940.6	876.3	816.5	768.3	726.9	690.2	661.4	637.3
22.5°	1165.8	1091.8	1018.5	947.7	876.0	811.6	757.0	714.4	674.5	646.4	620.8
25°	1191.5	1103.0	1029.5	946.4	866.3	799.7	738.4	690.2	650.3	617.4	591.0
27.5°	1213.6	1102.3	1015.0	925.6	851.2	784.4	719.0	667.2	624.9	589.1	562.3
30°	1228.3	1103.8	1000.0	911.5	836.5	767.5	703.9	651.9	607.4	571.0	545.8
32.5°	1237.5	1102.9	986.2	891.9	813.2	752.2	687.7	633.8	588.1	552.4	528.0
35°	1242.8	1096.1	962.5	851.4	775.6	716.2	662.2	606.3	558.4	525.1	497.5
37.5°	1232.1	1082.0	934.9	812.3	729.3	670.9	625.4	577.8	532.0	495.3	471.5
40°	1215.2	1072.8	913.4	784.8	697.4	641.1	602.5	555.7	510.5	475.7	453.5
42.5°	1183.1	1054.1	889.9	754.1	664.3	608.0	572.4	533.4	490.6	457.9	435.7
45°	1104.6	1013.4	854.5	708.2	615.5	557.3	525.9	497.5	458.8	427.0	407.9
47.5°	995.6	952.2	803.3	659.7	564.5	508.5	475.8	453.0	424.7	399.1	380.7
50°	920.0	902.0	768.7	626.6	530.4	475.7	444.3	423.6	403.3	377.6	360.8
52.5°	832.6	843.7	728.2	592.3	495.8	442.0	412.4	396.0	377.6	356.5	341.8
55°	709.7	749.9	658.4	534.7	444.3	393.0	365.0	350.4	339.7	324.0	311.4
57.5°	594.6	645.7	582.8	475.3	393.6	349.4	322.6	306.7	299.8	291.6	281.7
60°	526.2	576.8	528.9	435.5	359.6	317.5	293.8	280.4	273.5	267.7	259.3
62.5°	465.3	516.4	476.2	395.0	326.2	287.2	266.5	253.4	248.0	245.0	237.8
65°	381.5	425.5	398.7	332.1	278.4	244.0	225.2	216.0	211.0	209.9	205.3
67.5°	310.5	344.0	324.5	275.4	233.2	203.4	187.5	179.7	175.9	175.5	172.0
70°	263.9	295.3	280.4	235.9	199.5	176.2	162.4	155.5	153.2	152.8	150.9
72.5°	227.7	249.6	237.8	200.7	172.6	151.4	141.2	134.0	131.4	132.0	130.7
75°	168.5	185.0	178.1	152.4	129.8	116.0	107.6	103.0	100.7	101.9	100.3
77.5°	121.3	131.7	125.5	107.7	93.8	83.8	77.6	74.8	72.7	72.6	71.9
80°	91.5	97.7	94.2	83.5	72.0	63.6	58.6	56.7	55.5	55.2	54.8
82.5°	65.2	70.4	66.3	59.0	51.2	46.1	43.3	40.8	39.9	40.1	39.8
85°	32.9	34.9	33.3	28.7	25.7	23.4	21.8	20.7	19.9	20.3	19.5
87.5°	15.6	15.2	13.6	11.8	10.7	9.2	8.7	7.6	7.5	8.0	8.2
90°	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2	3.7	6.3	8.9
92.5°	24.7	22.2	19.6	18.7	19.4	20.2	20.9	21.6	20.9	20.2	19.4
95°	30.3	27.5	24.7	28.5	39.1	49.7	60.3	70.9	60.3	49.7	39.1
97.5°	74.6	93.2	111.8	123.4	128.2	132.9	137.7	142.4	137.7	132.9	128.2
100°	118.9	159.2	199.4	217.0	211.8	206.7	201.5	196.3	201.5	206.7	211.8
102.5°	164.4	208.4	252.4	272.6	268.8	265.1	261.4	257.7	261.4	265.1	268.8
105°	300.9	324.1	347.4	357.6	354.7	351.9	349.1	346.2	349.1	351.9	354.7
107.5°	459.0	455.4	451.7	448.7	446.4	444.2	441.9	439.6	441.9	444.2	446.4
110°	518.3	515.5	512.6	510.2	508.1	506.0	504.0	501.9	504.0	506.0	508.1



TEST NUMBER: P331946

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	576.9	574.0	571.2	568.8	567.0	565.1	563.2	561.4	563.2	565.1	567.0
115°	662.2	659.9	657.6	655.6	654.1	652.5	651.0	649.5	651.0	652.5	654.1
117.5°	746.3	745.1	743.9	742.4	740.5	738.5	736.6	734.7	736.6	738.5	740.5
120°	800.1	799.3	798.6	797.0	794.7	792.4	790.0	787.7	790.0	792.4	794.7
122.5°	852.7	851.7	850.7	849.3	847.3	845.4	843.5	841.6	843.5	845.4	847.3
125°	927.4	926.3	925.3	923.8	921.7	919.6	917.6	915.5	917.6	919.6	921.7
127.5°	999.5	998.2	997.0	995.3	993.3	991.2	989.1	987.1	989.1	991.2	993.3
130°	1043.6	1042.5	1041.5	1039.9	1037.9	1035.8	1033.8	1031.7	1033.8	1035.8	1037.9
132.5°	1085.8	1085.0	1084.1	1082.7	1080.6	1078.6	1076.5	1074.4	1076.5	1078.6	1080.6
135°	1149.3	1148.3	1147.2	1145.9	1144.4	1142.8	1141.3	1139.7	1141.3	1142.8	1144.4
137.5°	1205.8	1205.2	1204.6	1203.4	1201.4	1199.4	1197.5	1195.5	1197.5	1199.4	1201.4
140°	1241.6	1240.8	1240.0	1238.9	1237.3	1235.8	1234.2	1232.7	1234.2	1235.8	1237.3
142.5°	1276.0	1275.2	1274.4	1273.3	1271.7	1270.2	1268.6	1267.1	1268.6	1270.2	1271.7
145°	1324.6	1324.1	1323.6	1322.4	1320.6	1318.8	1317.0	1315.2	1317.0	1318.8	1320.6
147.5°	1367.1	1366.6	1366.1	1365.2	1364.0	1362.9	1361.7	1360.5	1361.7	1362.9	1364.0
150°	1393.1	1392.6	1392.1	1391.5	1390.7	1389.9	1389.1	1388.4	1389.1	1389.9	1390.7
152.5°	1415.9	1415.5	1415.2	1414.9	1414.5	1414.2	1413.8	1413.5	1413.8	1414.2	1414.5
155°	1447.1	1446.8	1446.6	1446.7	1447.2	1447.7	1448.3	1448.8	1448.3	1447.7	1447.2
157.5°	1475.3	1475.6	1475.8	1476.0	1476.0	1476.1	1476.1	1476.2	1476.1	1476.1	1476.0
160°	1491.1	1491.4	1491.6	1491.9	1492.2	1492.4	1492.7	1492.9	1492.7	1492.4	1492.2
162.5°	1505.1	1505.3	1505.6	1506.0	1506.7	1507.4	1508.1	1508.7	1508.1	1507.4	1506.7
165°	1523.6	1523.9	1524.2	1524.7	1525.5	1526.2	1527.0	1527.8	1527.0	1526.2	1525.5
167.5°	1538.0	1538.0	1538.0	1538.5	1539.6	1540.6	1541.6	1542.7	1541.6	1540.6	1539.6
170°	1546.4	1546.4	1546.4	1546.9	1547.9	1549.0	1550.0	1551.0	1550.0	1549.0	1547.9
172.5°	1551.5	1551.3	1551.1	1551.6	1552.9	1554.1	1555.4	1556.6	1555.4	1554.1	1552.9
175°	1558.6	1558.4	1558.1	1558.6	1559.9	1561.2	1562.5	1563.8	1562.5	1561.2	1559.9
177.5°	1561.5	1561.3	1561.1	1561.5	1562.6	1563.6	1564.6	1565.7	1564.6	1563.6	1562.6
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P331946

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	777.3	775.2	772.1	767.5	763.8	758.0	758.0	758.9	758.9	758.6	758.0
5°	753.7	748.0	741.1	733.1	724.6	716.2	714.7	711.6	709.3	707.8	705.9
7.5°	728.8	718.7	708.6	697.4	687.1	678.6	672.7	667.8	664.6	661.3	658.8
10°	712.0	699.3	687.5	675.6	662.6	652.2	645.7	641.1	637.7	634.6	633.1
12.5°	692.1	677.6	664.5	653.2	639.0	628.3	622.1	620.0	615.9	609.5	606.1
15°	663.0	649.6	633.9	616.6	609.7	596.7	589.4	586.0	583.7	578.7	577.2
17.5°	638.1	620.5	602.9	590.0	577.2	566.7	562.6	558.3	555.3	551.2	550.0
20°	618.2	602.5	586.4	572.6	559.2	547.7	544.2	541.2	538.1	536.2	534.7
22.5°	597.9	582.2	568.9	556.0	541.7	534.2	530.4	527.1	524.9	523.6	522.1
25°	569.5	555.7	540.8	529.3	517.8	512.8	510.5	508.6	507.1	505.2	504.8
27.5°	544.1	529.1	517.0	506.2	498.0	493.8	491.6	490.7	491.0	491.7	492.1
30°	525.1	511.3	501.3	492.1	484.5	480.7	480.3	480.3	481.8	482.2	483.0
32.5°	507.6	496.3	486.3	477.4	471.6	469.0	470.5	470.5	471.7	472.7	474.1
35°	482.2	472.2	464.6	456.9	451.9	453.1	453.8	454.6	456.5	458.8	460.4
37.5°	457.9	449.3	441.3	435.3	433.0	435.1	436.9	438.5	440.8	442.5	444.0
40°	440.4	433.9	426.3	420.9	421.7	422.8	424.4	426.3	428.2	429.3	430.9
42.5°	424.2	417.4	411.6	407.1	408.2	409.7	410.6	411.6	413.8	415.9	416.8
45°	399.5	394.1	388.7	386.1	386.8	387.6	388.4	389.5	391.4	393.0	393.3
47.5°	371.7	367.9	364.3	361.7	362.9	362.6	363.6	366.1	366.7	367.6	369.7
50°	353.9	350.4	346.2	345.5	345.5	345.5	345.8	348.9	348.9	350.4	352.0
52.5°	334.3	332.1	329.4	328.0	327.4	327.4	329.0	330.5	331.1	333.3	334.8
55°	305.2	302.9	300.7	299.5	298.7	299.5	302.6	303.3	305.2	306.4	307.5
57.5°	275.0	273.2	271.4	270.8	270.6	271.6	273.3	275.6	276.1	279.6	281.3
60°	255.1	252.4	250.9	250.9	250.1	253.5	252.8	256.6	257.4	259.7	262.4
62.5°	234.5	230.9	230.3	230.3	231.4	232.4	233.5	235.2	237.2	240.1	242.1
65°	201.5	199.5	202.2	201.8	201.1	203.4	203.4	205.3	207.6	210.3	214.5
67.5°	170.1	169.1	169.4	169.4	170.5	171.8	172.9	174.6	177.3	180.2	182.9
70°	149.0	150.1	148.2	149.8	150.9	151.3	152.0	154.3	157.4	159.3	162.4
72.5°	128.5	128.4	128.6	129.2	130.4	131.1	131.8	134.4	137.8	139.4	141.9
75°	98.8	98.4	99.6	99.6	101.5	102.3	103.0	104.2	107.2	109.5	111.5
77.5°	72.2	72.6	72.4	73.7	73.2	73.3	75.7	76.8	77.1	81.7	82.7
80°	54.4	55.2	55.5	55.9	56.3	55.5	58.2	59.4	59.4	62.0	64.0
82.5°	39.1	39.5	40.5	40.9	41.0	41.7	42.0	42.8	43.7	44.9	47.4
85°	19.5	20.7	21.1	20.7	21.1	20.3	21.4	21.8	22.2	22.2	22.2
87.5°	8.4	9.3	9.7	10.7	11.0	12.0	12.2	11.8	12.0	13.1	12.1
90°	11.5	14.5	17.8	21.2	24.5	27.9	28.9	29.9	31.0	32.0	32.8
92.5°	18.7	19.6	22.2	24.7	27.2	29.7	31.4	33.0	34.7	36.4	37.3
95°	28.5	24.7	27.5	30.3	33.2	36.0	37.8	39.6	41.4	43.2	44.1
97.5°	123.4	111.8	93.2	74.6	56.0	37.4	39.5	41.5	43.6	45.7	46.8
100°	217.0	199.4	159.2	118.9	78.6	38.3	40.4	42.5	44.5	46.6	47.8
102.5°	272.6	252.4	208.4	164.4	120.4	76.4	70.0	63.6	57.2	50.8	47.9
105°	357.6	347.4	324.1	300.9	277.7	254.4	208.7	163.0	117.3	71.6	49.1
107.5°	448.7	451.7	455.4	459.0	462.7	466.4	432.8	399.3	365.8	332.3	298.3
110°	510.2	512.6	515.5	518.3	521.1	524.0	515.5	506.9	498.4	489.9	467.2



TEST NUMBER: P331946

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	568.8	571.2	574.0	576.9	579.7	582.5	582.7	582.8	583.0	583.2	579.3
115°	655.6	657.6	659.9	662.2	664.6	666.9	669.5	672.0	674.6	677.2	679.0
117.5°	742.4	743.9	745.1	746.3	747.5	748.7	750.7	752.8	754.9	756.9	758.1
120°	797.0	798.6	799.3	800.1	800.9	801.6	803.7	805.8	807.8	809.9	810.9
122.5°	849.3	850.7	851.7	852.7	853.6	854.6	856.1	857.5	859.0	860.4	861.2
125°	923.8	925.3	926.3	927.4	928.4	929.4	930.0	930.5	931.0	931.5	932.0
127.5°	995.3	997.0	998.2	999.5	1000.7	1001.9	1002.8	1003.6	1004.4	1005.2	1005.4
130°	1039.9	1041.5	1042.5	1043.6	1044.6	1045.6	1046.7	1047.7	1048.7	1049.8	1050.0
132.5°	1082.7	1084.1	1085.0	1085.8	1086.6	1087.5	1088.5	1089.5	1090.6	1091.6	1091.7
135°	1145.9	1147.2	1148.3	1149.3	1150.3	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5
137.5°	1203.4	1204.6	1205.2	1205.8	1206.3	1206.9	1208.1	1209.4	1210.6	1211.8	1212.2
140°	1238.9	1240.0	1240.8	1241.6	1242.4	1243.1	1244.2	1245.2	1246.2	1247.3	1247.5
142.5°	1273.3	1274.4	1275.2	1276.0	1276.8	1277.5	1278.4	1279.2	1280.0	1280.8	1280.9
145°	1322.4	1323.6	1324.1	1324.6	1325.1	1325.6	1326.1	1326.7	1327.2	1327.7	1327.9
147.5°	1365.2	1366.1	1366.6	1367.1	1367.6	1368.1	1368.7	1369.2	1369.7	1370.2	1369.9
150°	1391.5	1392.1	1392.6	1393.1	1393.7	1394.2	1394.7	1395.2	1395.7	1396.2	1396.1
152.5°	1414.9	1415.2	1415.5	1415.9	1416.2	1416.5	1417.4	1418.3	1419.3	1420.2	1420.1
155°	1446.7	1446.6	1446.8	1447.1	1447.4	1447.6	1448.9	1450.2	1451.5	1452.8	1452.6
157.5°	1476.0	1475.8	1475.6	1475.3	1475.1	1474.8	1476.4	1477.9	1479.4	1481.0	1480.8
160°	1491.9	1491.6	1491.4	1491.1	1490.9	1490.6	1492.2	1493.7	1495.2	1496.8	1496.7
162.5°	1506.0	1505.6	1505.3	1505.1	1504.8	1504.5	1506.3	1508.1	1509.8	1511.6	1511.6
165°	1524.7	1524.2	1523.9	1523.6	1523.4	1523.1	1525.2	1527.3	1529.3	1531.4	1531.5
167.5°	1538.5	1538.0	1538.0	1538.0	1538.0	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3
170°	1546.9	1546.4	1546.4	1546.4	1546.4	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6
172.5°	1551.6	1551.1	1551.3	1551.5	1551.7	1551.9	1554.0	1556.1	1558.1	1560.2	1560.1
175°	1558.6	1558.1	1558.4	1558.6	1558.9	1559.1	1561.0	1562.8	1564.6	1566.4	1566.2
177.5°	1561.5	1561.1	1561.3	1561.5	1561.7	1561.9	1563.6	1565.2	1566.9	1568.5	1568.3
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P331946

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	755.9	755.6	757.7	756.2	757.7	755.6	755.9	758.0	758.6	758.9	758.9
5°	703.6	704.7	700.9	700.9	700.9	704.7	703.6	705.9	707.8	709.3	711.6
7.5°	657.0	655.3	655.5	653.4	655.5	655.3	657.0	658.8	661.3	664.6	667.8
10°	628.5	626.2	625.4	625.8	625.4	626.2	628.5	633.1	634.6	637.7	641.1
12.5°	604.9	604.4	599.4	599.5	599.4	604.4	604.9	606.1	609.5	615.9	620.0
15°	577.2	569.9	569.1	571.4	569.1	569.9	577.2	577.2	578.7	583.7	586.0
17.5°	549.4	545.5	545.8	544.6	545.8	545.5	549.4	550.0	551.2	555.3	558.3
20°	534.7	532.4	532.0	529.3	532.0	532.4	534.7	534.7	536.2	538.1	541.2
22.5°	521.2	520.4	520.6	517.7	520.6	520.4	521.2	522.1	523.6	524.9	527.1
25°	504.4	506.3	504.8	504.8	504.8	506.3	504.4	504.8	505.2	507.1	508.6
27.5°	493.1	493.0	492.2	492.2	492.2	493.0	493.1	492.1	491.7	491.0	490.7
30°	484.5	484.1	484.9	484.9	484.9	484.1	484.5	483.0	482.2	481.8	480.3
32.5°	475.9	476.4	476.6	476.9	476.6	476.4	475.9	474.1	472.7	471.7	470.5
35°	462.7	463.0	464.2	463.4	464.2	463.0	462.7	460.4	458.8	456.5	454.6
37.5°	444.7	446.5	446.1	446.7	446.1	446.5	444.7	444.0	442.5	440.8	438.5
40°	431.3	432.4	432.0	432.0	432.0	432.4	431.3	430.9	429.3	428.2	426.3
42.5°	417.5	418.3	417.3	416.7	417.3	418.3	417.5	416.8	415.9	413.8	411.6
45°	394.9	394.1	395.3	393.7	395.3	394.1	394.9	393.3	393.0	391.4	389.5
47.5°	369.6	370.4	370.7	371.8	370.7	370.4	369.6	369.7	367.6	366.7	366.1
50°	352.7	355.0	355.0	354.7	355.0	355.0	352.7	352.0	350.4	348.9	348.9
52.5°	336.2	337.3	338.8	338.7	338.8	337.3	336.2	334.8	333.3	331.1	330.5
55°	310.6	311.4	312.1	312.5	312.1	311.4	310.6	307.5	306.4	305.2	303.3
57.5°	284.1	283.8	285.6	286.2	285.6	283.8	284.1	281.3	279.6	276.1	275.6
60°	265.4	265.4	268.5	269.6	268.5	265.4	265.4	262.4	259.7	257.4	256.6
62.5°	245.5	246.7	249.8	248.2	249.8	246.7	245.5	242.1	240.1	237.2	235.2
65°	216.4	219.5	219.1	220.6	219.1	219.5	216.4	214.5	210.3	207.6	205.3
67.5°	186.0	187.9	190.7	190.9	190.7	187.9	186.0	182.9	180.2	177.3	174.6
70°	165.5	167.4	168.9	170.0	168.9	167.4	165.5	162.4	159.3	157.4	154.3
72.5°	145.5	146.5	150.2	148.6	150.2	146.5	145.5	141.9	139.4	137.8	134.4
75°	114.1	116.8	119.1	118.0	119.1	116.8	114.1	111.5	109.5	107.2	104.2
77.5°	84.4	87.1	88.2	87.2	88.2	87.1	84.4	82.7	81.7	77.1	76.8
80°	66.6	66.3	68.6	68.2	68.6	66.3	66.6	64.0	62.0	59.4	59.4
82.5°	48.9	48.5	49.6	49.8	49.6	48.5	48.9	47.4	44.9	43.7	42.8
85°	23.7	24.9	23.4	23.0	23.4	24.9	23.7	22.2	22.2	22.2	21.8
87.5°	12.2	12.3	12.1	11.9	12.1	12.3	12.2	12.1	13.1	12.0	11.8
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	32.0	31.0	29.9
92.5°	37.6	38.0	38.3	38.6	38.3	38.0	37.6	37.3	36.4	34.7	33.0
95°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	43.2	41.4	39.6
97.5°	47.1	47.4	47.6	47.9	47.6	47.4	47.1	46.8	45.7	43.6	41.5
100°	48.0	48.3	48.5	48.8	48.5	48.3	48.0	47.8	46.6	44.5	42.5
102.5°	48.3	48.8	49.3	49.7	49.3	48.8	48.3	47.9	50.8	57.2	63.6
105°	49.6	50.1	50.6	51.1	50.6	50.1	49.6	49.1	71.6	117.3	163.0
107.5°	263.9	229.4	195.0	160.6	195.0	229.4	263.9	298.3	332.3	365.8	399.3
110°	430.3	393.3	356.4	319.5	356.4	393.3	430.3	467.2	489.9	498.4	506.9



TEST NUMBER: P331946

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	571.5	563.7	555.9	548.1	555.9	563.7	571.5	579.3	583.2	583.0	582.8
115°	680.0	681.1	682.1	683.1	682.1	681.1	680.0	679.0	677.2	674.6	672.0
117.5°	758.3	758.5	758.7	758.9	758.7	758.5	758.3	758.1	756.9	754.9	752.8
120°	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	809.9	807.8	805.8
122.5°	861.4	861.6	861.9	862.1	861.9	861.6	861.4	861.2	860.4	859.0	857.5
125°	932.5	933.1	933.6	934.1	933.6	933.1	932.5	932.0	931.5	931.0	930.5
127.5°	1004.9	1004.4	1003.9	1003.3	1003.9	1004.4	1004.9	1005.4	1005.2	1004.4	1003.6
130°	1049.5	1049.0	1048.5	1048.0	1048.5	1049.0	1049.5	1050.0	1049.8	1048.7	1047.7
132.5°	1091.0	1090.3	1089.6	1088.8	1089.6	1090.3	1091.0	1091.7	1091.6	1090.6	1089.5
135°	1153.7	1152.9	1152.1	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5	1153.7	1152.9
137.5°	1211.7	1211.2	1210.7	1210.1	1210.7	1211.2	1211.7	1212.2	1211.8	1210.6	1209.4
140°	1247.0	1246.5	1246.0	1245.5	1246.0	1246.5	1247.0	1247.5	1247.3	1246.2	1245.2
142.5°	1280.2	1279.4	1278.7	1278.0	1278.7	1279.4	1280.2	1280.9	1280.8	1280.0	1279.2
145°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.7	1327.2	1326.7
147.5°	1368.7	1367.5	1366.3	1365.1	1366.3	1367.5	1368.7	1369.9	1370.2	1369.7	1369.2
150°	1395.3	1394.6	1393.8	1393.0	1393.8	1394.6	1395.3	1396.1	1396.2	1395.7	1395.2
152.5°	1418.9	1417.7	1416.5	1415.3	1416.5	1417.7	1418.9	1420.1	1420.2	1419.3	1418.3
155°	1451.1	1449.6	1448.0	1446.5	1448.0	1449.6	1451.1	1452.6	1452.8	1451.5	1450.2
157.5°	1478.8	1476.7	1474.7	1472.7	1474.7	1476.7	1478.8	1480.8	1481.0	1479.4	1477.9
160°	1494.9	1493.1	1491.2	1489.4	1491.2	1493.1	1494.9	1496.7	1496.8	1495.2	1493.7
162.5°	1510.0	1508.4	1506.8	1505.2	1506.8	1508.4	1510.0	1511.6	1511.6	1509.8	1508.1
165°	1529.7	1527.9	1526.1	1524.3	1526.1	1527.9	1529.7	1531.5	1531.4	1529.3	1527.3
167.5°	1544.2	1542.1	1540.1	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3	1544.2	1542.1
170°	1552.6	1550.5	1548.4	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6	1552.6	1550.5
172.5°	1557.8	1555.6	1553.3	1551.0	1553.3	1555.6	1557.8	1560.1	1560.2	1558.1	1556.1
175°	1564.2	1562.1	1560.1	1558.0	1560.1	1562.1	1564.2	1566.2	1566.4	1564.6	1562.8
177.5°	1566.3	1564.2	1562.1	1560.1	1562.1	1564.2	1566.3	1568.3	1568.5	1566.9	1565.2
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P331946

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	758.0	758.0	763.8	767.5	772.1	775.2	777.3	779.5	783.1	788.1	793.6
5°	714.7	716.2	724.6	733.1	741.1	748.0	753.7	760.6	769.1	779.4	790.9
7.5°	672.7	678.6	687.1	697.4	708.6	718.7	728.8	740.2	752.0	767.3	783.4
10°	645.7	652.2	662.6	675.6	687.5	699.3	712.0	724.2	739.2	757.2	777.9
12.5°	622.1	628.3	639.0	653.2	664.5	677.6	692.1	708.0	724.8	746.5	769.9
15°	589.4	596.7	609.7	616.6	633.9	649.6	663.0	685.9	707.4	729.6	756.8
17.5°	562.6	566.7	577.2	590.0	602.9	620.5	638.1	657.2	678.6	705.8	739.8
20°	544.2	547.7	559.2	572.6	586.4	602.5	618.2	637.3	661.4	690.2	726.9
22.5°	530.4	534.2	541.7	556.0	568.9	582.2	597.9	620.8	646.4	674.5	714.4
25°	510.5	512.8	517.8	529.3	540.8	555.7	569.5	591.0	617.4	650.3	690.2
27.5°	491.6	493.8	498.0	506.2	517.0	529.1	544.1	562.3	589.1	624.9	667.2
30°	480.3	480.7	484.5	492.1	501.3	511.3	525.1	545.8	571.0	607.4	651.9
32.5°	470.5	469.0	471.6	477.4	486.3	496.3	507.6	528.0	552.4	588.1	633.8
35°	453.8	453.1	451.9	456.9	464.6	472.2	482.2	497.5	525.1	558.4	606.3
37.5°	436.9	435.1	433.0	435.3	441.3	449.3	457.9	471.5	495.3	532.0	577.8
40°	424.4	422.8	421.7	420.9	426.3	433.9	440.4	453.5	475.7	510.5	555.7
42.5°	410.6	409.7	408.2	407.1	411.6	417.4	424.2	435.7	457.9	490.6	533.4
45°	388.4	387.6	386.8	386.1	388.7	394.1	399.5	407.9	427.0	458.8	497.5
47.5°	363.6	362.6	362.9	361.7	364.3	367.9	371.7	380.7	399.1	424.7	453.0
50°	345.8	345.5	345.5	345.5	346.2	350.4	353.9	360.8	377.6	403.3	423.6
52.5°	329.0	327.4	327.4	328.0	329.4	332.1	334.3	341.8	356.5	377.6	396.0
55°	302.6	299.5	298.7	299.5	300.7	302.9	305.2	311.4	324.0	339.7	350.4
57.5°	273.3	271.6	270.6	270.8	271.4	273.2	275.0	281.7	291.6	299.8	306.7
60°	252.8	253.5	250.1	250.9	250.9	252.4	255.1	259.3	267.7	273.5	280.4
62.5°	233.5	232.4	231.4	230.3	230.3	230.9	234.5	237.8	245.0	248.0	253.4
65°	203.4	203.4	201.1	201.8	202.2	199.5	201.5	205.3	209.9	211.0	216.0
67.5°	172.9	171.8	170.5	169.4	169.4	169.1	170.1	172.0	175.5	175.9	179.7
70°	152.0	151.3	150.9	149.8	148.2	150.1	149.0	150.9	152.8	153.2	155.5
72.5°	131.8	131.1	130.4	129.2	128.6	128.4	128.5	130.7	132.0	131.4	134.0
75°	103.0	102.3	101.5	99.6	99.6	98.4	98.8	100.3	101.9	100.7	103.0
77.5°	75.7	73.3	73.2	73.7	72.4	72.6	72.2	71.9	72.6	72.7	74.8
80°	58.2	55.5	56.3	55.9	55.5	55.2	54.4	54.8	55.2	55.5	56.7
82.5°	42.0	41.7	41.0	40.9	40.5	39.5	39.1	39.8	40.1	39.9	40.8
85°	21.4	20.3	21.1	20.7	21.1	20.7	19.5	19.5	20.3	19.9	20.7
87.5°	12.2	12.0	11.0	10.7	9.7	9.3	8.4	8.2	8.0	7.5	7.6
90°	28.9	27.9	24.5	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2
92.5°	31.4	29.7	27.2	24.7	22.2	19.6	18.7	19.4	20.2	20.9	21.6
95°	37.8	36.0	33.2	30.3	27.5	24.7	28.5	39.1	49.7	60.3	70.9
97.5°	39.5	37.4	56.0	74.6	93.2	111.8	123.4	128.2	132.9	137.7	142.4
100°	40.4	38.3	78.6	118.9	159.2	199.4	217.0	211.8	206.7	201.5	196.3
102.5°	70.0	76.4	120.4	164.4	208.4	252.4	272.6	268.8	265.1	261.4	257.7
105°	208.7	254.4	277.7	300.9	324.1	347.4	357.6	354.7	351.9	349.1	346.2
107.5°	432.8	466.4	462.7	459.0	455.4	451.7	448.7	446.4	444.2	441.9	439.6
110°	515.5	524.0	521.1	518.3	515.5	512.6	510.2	508.1	506.0	504.0	501.9



TEST NUMBER: P331946

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	582.7	582.5	579.7	576.9	574.0	571.2	568.8	567.0	565.1	563.2	561.4
115°	669.5	666.9	664.6	662.2	659.9	657.6	655.6	654.1	652.5	651.0	649.5
117.5°	750.7	748.7	747.5	746.3	745.1	743.9	742.4	740.5	738.5	736.6	734.7
120°	803.7	801.6	800.9	800.1	799.3	798.6	797.0	794.7	792.4	790.0	787.7
122.5°	856.1	854.6	853.6	852.7	851.7	850.7	849.3	847.3	845.4	843.5	841.6
125°	930.0	929.4	928.4	927.4	926.3	925.3	923.8	921.7	919.6	917.6	915.5
127.5°	1002.8	1001.9	1000.7	999.5	998.2	997.0	995.3	993.3	991.2	989.1	987.1
130°	1046.7	1045.6	1044.6	1043.6	1042.5	1041.5	1039.9	1037.9	1035.8	1033.8	1031.7
132.5°	1088.5	1087.5	1086.6	1085.8	1085.0	1084.1	1082.7	1080.6	1078.6	1076.5	1074.4
135°	1152.1	1151.4	1150.3	1149.3	1148.3	1147.2	1145.9	1144.4	1142.8	1141.3	1139.7
137.5°	1208.1	1206.9	1206.3	1205.8	1205.2	1204.6	1203.4	1201.4	1199.4	1197.5	1195.5
140°	1244.2	1243.1	1242.4	1241.6	1240.8	1240.0	1238.9	1237.3	1235.8	1234.2	1232.7
142.5°	1278.4	1277.5	1276.8	1276.0	1275.2	1274.4	1273.3	1271.7	1270.2	1268.6	1267.1
145°	1326.1	1325.6	1325.1	1324.6	1324.1	1323.6	1322.4	1320.6	1318.8	1317.0	1315.2
147.5°	1368.7	1368.1	1367.6	1367.1	1366.6	1366.1	1365.2	1364.0	1362.9	1361.7	1360.5
150°	1394.7	1394.2	1393.7	1393.1	1392.6	1392.1	1391.5	1390.7	1389.9	1389.1	1388.4
152.5°	1417.4	1416.5	1416.2	1415.9	1415.5	1415.2	1414.9	1414.5	1414.2	1413.8	1413.5
155°	1448.9	1447.6	1447.4	1447.1	1446.8	1446.6	1446.7	1447.2	1447.7	1448.3	1448.8
157.5°	1476.4	1474.8	1475.1	1475.3	1475.6	1475.8	1476.0	1476.0	1476.1	1476.1	1476.2
160°	1492.2	1490.6	1490.9	1491.1	1491.4	1491.6	1491.9	1492.2	1492.4	1492.7	1492.9
162.5°	1506.3	1504.5	1504.8	1505.1	1505.3	1505.6	1506.0	1506.7	1507.4	1508.1	1508.7
165°	1525.2	1523.1	1523.4	1523.6	1523.9	1524.2	1524.7	1525.5	1526.2	1527.0	1527.8
167.5°	1540.1	1538.0	1538.0	1538.0	1538.0	1538.0	1538.5	1539.6	1540.6	1541.6	1542.7
170°	1548.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.9	1547.9	1549.0	1550.0	1551.0
172.5°	1554.0	1551.9	1551.7	1551.5	1551.3	1551.1	1551.6	1552.9	1554.1	1555.4	1556.6
175°	1561.0	1559.1	1558.9	1558.6	1558.4	1558.1	1558.6	1559.9	1561.2	1562.5	1563.8
177.5°	1563.6	1561.9	1561.7	1561.5	1561.3	1561.1	1561.5	1562.6	1563.6	1564.6	1565.7
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P331946

CATALOG NUMBER: S123DIP-S560D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	795.4	796.9	802.1	805.8	810.1	812.6	815.0	816.9	819.3	819.9	828.8
5°	798.9	806.6	820.0	829.9	842.2	855.6	864.8	869.0	880.1	889.3	907.7
7.5°	797.9	814.2	834.5	855.5	878.0	898.8	916.9	938.3	953.6	976.5	999.1
10°	797.0	818.8	844.9	871.7	903.1	932.2	958.3	987.4	1011.5	1043.3	1070.5
12.5°	794.3	820.7	856.8	888.5	926.7	966.8	1005.4	1042.8	1064.2	1117.1	1142.2
15°	787.4	818.8	864.0	912.3	964.8	1012.3	1061.3	1100.3	1163.5	1209.9	1239.4
17.5°	774.4	818.4	872.0	930.2	994.0	1056.6	1112.1	1171.4	1238.5	1294.5	1354.3
20°	768.3	816.5	876.3	940.6	1006.9	1077.7	1140.9	1212.2	1285.3	1340.5	1417.1
22.5°	757.0	811.6	876.0	947.7	1018.5	1091.8	1165.8	1237.6	1322.1	1398.1	1471.0
25°	738.4	799.7	866.3	946.4	1029.5	1103.0	1191.5	1286.9	1375.0	1472.6	1545.4
27.5°	719.0	784.4	851.2	925.6	1015.0	1102.3	1213.6	1321.3	1429.0	1513.4	1567.2
30°	703.9	767.5	836.5	911.5	1000.0	1103.8	1228.3	1345.8	1450.8	1523.2	1553.4
32.5°	687.7	752.2	813.2	891.9	986.2	1102.9	1237.5	1360.2	1452.0	1500.2	1494.3
35°	662.2	716.2	775.6	851.4	962.5	1096.1	1242.8	1361.5	1417.8	1407.5	1329.4
37.5°	625.4	670.9	729.3	812.3	934.9	1082.0	1232.1	1321.2	1317.5	1233.3	1120.1
40°	602.5	641.1	697.4	784.8	913.4	1072.8	1215.2	1273.1	1224.1	1106.5	970.9
42.5°	572.4	608.0	664.3	754.1	889.9	1054.1	1183.1	1199.8	1103.9	968.6	844.4
45°	525.9	557.3	615.5	708.2	854.5	1013.4	1104.6	1063.6	934.5	794.7	700.1
47.5°	475.8	508.5	564.5	659.7	803.3	952.2	995.6	908.5	775.9	662.6	575.7
50°	444.3	475.7	530.4	626.6	768.7	902.0	920.0	807.4	685.6	586.0	514.7
52.5°	412.4	442.0	495.8	592.3	728.2	843.7	832.6	717.9	605.9	521.0	465.1
55°	365.0	393.0	444.3	534.7	658.4	749.9	709.7	600.2	507.5	441.6	399.1
57.5°	322.6	349.4	393.6	475.3	582.8	645.7	594.6	502.3	428.6	377.9	346.2
60°	293.8	317.5	359.6	435.5	528.9	576.8	526.2	444.7	382.6	342.0	313.7
62.5°	266.5	287.2	326.2	395.0	476.2	516.4	465.3	396.2	343.4	307.4	283.3
65°	225.2	244.0	278.4	332.1	398.7	425.5	381.5	325.5	284.6	257.8	241.7
67.5°	187.5	203.4	233.2	275.4	324.5	344.0	310.5	267.2	236.3	214.8	202.0
70°	162.4	176.2	199.5	235.9	280.4	295.3	263.9	228.3	205.7	188.4	176.6
72.5°	141.2	151.4	172.6	200.7	237.8	249.6	227.7	196.4	175.3	162.4	153.0
75°	107.6	116.0	129.8	152.4	178.1	185.0	168.5	149.0	134.8	125.6	118.3
77.5°	77.6	83.8	93.8	107.7	125.5	131.7	121.3	108.2	97.9	91.7	87.6
80°	58.6	63.6	72.0	83.5	94.2	97.7	91.5	81.6	74.3	70.9	67.4
82.5°	43.3	46.1	51.2	59.0	66.3	70.4	65.2	59.2	55.3	52.2	50.9
85°	21.8	23.4	25.7	28.7	33.3	34.9	32.9	31.4	29.1	27.2	27.2
87.5°	8.7	9.2	10.7	11.8	13.6	15.2	15.6	15.6	16.0	15.9	15.8
90°	3.7	6.3	8.9	11.5	14.5	17.8	21.2	24.5	27.9	28.9	29.9
92.5°	20.9	20.2	19.4	18.7	19.6	22.2	24.7	27.2	29.7	31.4	33.0
95°	60.3	49.7	39.1	28.5	24.7	27.5	30.3	33.2	36.0	37.8	39.6
97.5°	137.7	132.9	128.2	123.4	111.8	93.2	74.6	56.0	37.4	39.5	41.5
100°	201.5	206.7	211.8	217.0	199.4	159.2	118.9	78.6	38.3	40.4	42.5
102.5°	261.4	265.1	268.8	272.6	252.4	208.4	164.4	120.4	76.4	70.0	63.6
105°	349.1	351.9	354.7	357.6	347.4	324.1	300.9	277.7	254.4	208.7	163.0
107.5°	441.9	444.2	446.4	448.7	451.7	455.4	459.0	462.7	466.4	432.8	399.3
110°	504.0	506.0	508.1	510.2	512.6	515.5	518.3	521.1	524.0	515.5	506.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	563.2	565.1	567.0	568.8	571.2	574.0	576.9	579.7	582.5	582.7	582.8
115°	651.0	652.5	654.1	655.6	657.6	659.9	662.2	664.6	666.9	669.5	672.0
117.5°	736.6	738.5	740.5	742.4	743.9	745.1	746.3	747.5	748.7	750.7	752.8
120°	790.0	792.4	794.7	797.0	798.6	799.3	800.1	800.9	801.6	803.7	805.8
122.5°	843.5	845.4	847.3	849.3	850.7	851.7	852.7	853.6	854.6	856.1	857.5
125°	917.6	919.6	921.7	923.8	925.3	926.3	927.4	928.4	929.4	930.0	930.5
127.5°	989.1	991.2	993.3	995.3	997.0	998.2	999.5	1000.7	1001.9	1002.8	1003.6
130°	1033.8	1035.8	1037.9	1039.9	1041.5	1042.5	1043.6	1044.6	1045.6	1046.7	1047.7
132.5°	1076.5	1078.6	1080.6	1082.7	1084.1	1085.0	1085.8	1086.6	1087.5	1088.5	1089.5
135°	1141.3	1142.8	1144.4	1145.9	1147.2	1148.3	1149.3	1150.3	1151.4	1152.1	1152.9
137.5°	1197.5	1199.4	1201.4	1203.4	1204.6	1205.2	1205.8	1206.3	1206.9	1208.1	1209.4
140°	1234.2	1235.8	1237.3	1238.9	1240.0	1240.8	1241.6	1242.4	1243.1	1244.2	1245.2
142.5°	1268.6	1270.2	1271.7	1273.3	1274.4	1275.2	1276.0	1276.8	1277.5	1278.4	1279.2
145°	1317.0	1318.8	1320.6	1322.4	1323.6	1324.1	1324.6	1325.1	1325.6	1326.1	1326.7
147.5°	1361.7	1362.9	1364.0	1365.2	1366.1	1366.6	1367.1	1367.6	1368.1	1368.7	1369.2
150°	1389.1	1389.9	1390.7	1391.5	1392.1	1392.6	1393.1	1393.7	1394.2	1394.7	1395.2
152.5°	1413.8	1414.2	1414.5	1414.9	1415.2	1415.5	1415.9	1416.2	1416.5	1417.4	1418.3
155°	1448.3	1447.7	1447.2	1446.7	1446.6	1446.8	1447.1	1447.4	1447.6	1448.9	1450.2
157.5°	1476.1	1476.1	1476.0	1476.0	1475.8	1475.6	1475.3	1475.1	1474.8	1476.4	1477.9
160°	1492.7	1492.4	1492.2	1491.9	1491.6	1491.4	1491.1	1490.9	1490.6	1492.2	1493.7
162.5°	1508.1	1507.4	1506.7	1506.0	1505.6	1505.3	1505.1	1504.8	1504.5	1506.3	1508.1
165°	1527.0	1526.2	1525.5	1524.7	1524.2	1523.9	1523.6	1523.4	1523.1	1525.2	1527.3
167.5°	1541.6	1540.6	1539.6	1538.5	1538.0	1538.0	1538.0	1538.0	1538.0	1540.1	1542.1
170°	1550.0	1549.0	1547.9	1546.9	1546.4	1546.4	1546.4	1546.4	1546.4	1548.4	1550.5
172.5°	1555.4	1554.1	1552.9	1551.6	1551.1	1551.3	1551.5	1551.7	1551.9	1554.0	1556.1
175°	1562.5	1561.2	1559.9	1558.6	1558.1	1558.4	1558.6	1558.9	1559.1	1561.0	1562.8
177.5°	1564.6	1563.6	1562.6	1561.5	1561.1	1561.3	1561.5	1561.7	1561.9	1563.6	1565.2
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	831.9	832.2	835.5	838.0	836.8	838.3	838.9
5°	908.8	922.6	929.9	935.3	935.7	936.0	939.1
7.5°	1018.0	1032.8	1043.6	1060.0	1064.9	1070.5	1068.9
10°	1097.7	1119.5	1138.3	1148.2	1158.9	1174.6	1162.0
12.5°	1172.1	1210.8	1239.4	1254.8	1265.0	1268.1	1261.9
15°	1294.9	1345.5	1372.7	1371.9	1406.4	1421.3	1397.9
17.5°	1407.5	1454.2	1491.5	1510.7	1539.4	1545.8	1542.9
20°	1476.4	1527.4	1556.5	1589.4	1604.4	1617.8	1620.1
22.5°	1535.9	1581.6	1612.9	1640.3	1652.8	1659.1	1663.0
25°	1597.1	1633.1	1651.9	1661.4	1664.9	1664.1	1659.1
27.5°	1592.9	1595.6	1575.0	1554.7	1536.5	1516.0	1509.0
30°	1551.5	1519.3	1461.9	1429.3	1381.5	1343.5	1358.9
32.5°	1442.7	1378.7	1314.2	1243.0	1184.1	1167.4	1150.5
35°	1231.3	1118.7	1052.9	976.3	945.6	915.0	893.9
37.5°	996.2	909.1	830.9	780.8	750.1	730.8	720.3
40°	861.4	782.8	718.5	677.9	654.5	632.7	629.6
42.5°	753.8	680.8	632.4	600.1	577.6	568.4	561.6
45°	617.4	566.4	533.9	510.9	496.0	490.2	482.6
47.5°	522.6	486.6	462.1	446.5	435.2	430.9	430.3
50°	469.6	439.7	421.7	409.4	400.6	399.1	393.0
52.5°	429.7	403.8	389.8	379.1	372.7	368.4	366.6
55°	373.0	355.8	343.2	337.0	332.1	327.8	327.8
57.5°	326.4	312.0	303.6	298.4	296.9	293.9	292.0
60°	297.6	285.3	278.8	274.2	271.2	271.5	268.1
62.5°	269.4	261.4	255.2	250.6	247.0	247.0	247.3
65°	229.4	223.3	218.7	217.2	214.9	212.2	212.9
67.5°	194.4	188.7	185.1	182.5	181.7	180.2	182.5
70°	169.3	165.1	162.4	160.1	159.3	159.7	161.6
72.5°	146.3	143.3	141.6	140.5	138.8	138.9	140.2
75°	114.9	112.6	111.1	109.9	109.5	109.5	109.5
77.5°	84.4	83.9	83.2	81.5	81.6	82.0	82.1
80°	66.6	65.5	65.1	64.3	63.2	62.4	64.3
82.5°	49.8	48.6	48.3	48.1	46.3	46.2	47.8
85°	26.8	25.7	26.0	25.7	25.7	25.3	25.3
87.5°	15.7	15.6	15.4	15.9	15.6	15.4	16.2
90°	31.0	32.0	32.8	33.3	33.8	34.3	34.9
92.5°	34.7	36.4	37.3	37.6	38.0	38.3	38.6
95°	41.4	43.2	44.1	44.1	44.1	44.1	44.1
97.5°	43.6	45.7	46.8	47.1	47.4	47.6	47.9
100°	44.5	46.6	47.8	48.0	48.3	48.5	48.8
102.5°	57.2	50.8	47.9	48.3	48.8	49.3	49.7
105°	117.3	71.6	49.1	49.6	50.1	50.6	51.1
107.5°	365.8	332.3	298.3	263.9	229.4	195.0	160.6
110°	498.4	489.9	467.2	430.3	393.3	356.4	319.5



TEST NUMBER: P331946

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	583.0	583.2	579.3	571.5	563.7	555.9	548.1
115°	674.6	677.2	679.0	680.0	681.1	682.1	683.1
117.5°	754.9	756.9	758.1	758.3	758.5	758.7	758.9
120°	807.8	809.9	810.9	810.9	810.9	810.9	810.9
122.5°	859.0	860.4	861.2	861.4	861.6	861.9	862.1
125°	931.0	931.5	932.0	932.5	933.1	933.6	934.1
127.5°	1004.4	1005.2	1005.4	1004.9	1004.4	1003.9	1003.3
130°	1048.7	1049.8	1050.0	1049.5	1049.0	1048.5	1048.0
132.5°	1090.6	1091.6	1091.7	1091.0	1090.3	1089.6	1088.8
135°	1153.7	1154.5	1154.5	1153.7	1152.9	1152.1	1151.4
137.5°	1210.6	1211.8	1212.2	1211.7	1211.2	1210.7	1210.1
140°	1246.2	1247.3	1247.5	1247.0	1246.5	1246.0	1245.5
142.5°	1280.0	1280.8	1280.9	1280.2	1279.4	1278.7	1278.0
145°	1327.2	1327.7	1327.9	1327.9	1327.9	1327.9	1327.9
147.5°	1369.7	1370.2	1369.9	1368.7	1367.5	1366.3	1365.1
150°	1395.7	1396.2	1396.1	1395.3	1394.6	1393.8	1393.0
152.5°	1419.3	1420.2	1420.1	1418.9	1417.7	1416.5	1415.3
155°	1451.5	1452.8	1452.6	1451.1	1449.6	1448.0	1446.5
157.5°	1479.4	1481.0	1480.8	1478.8	1476.7	1474.7	1472.7
160°	1495.2	1496.8	1496.7	1494.9	1493.1	1491.2	1489.4
162.5°	1509.8	1511.6	1511.6	1510.0	1508.4	1506.8	1505.2
165°	1529.3	1531.4	1531.5	1529.7	1527.9	1526.1	1524.3
167.5°	1544.2	1546.3	1546.3	1544.2	1542.1	1540.1	1538.0
170°	1552.6	1554.6	1554.6	1552.6	1550.5	1548.4	1546.4
172.5°	1558.1	1560.2	1560.1	1557.8	1555.6	1553.3	1551.0
175°	1564.6	1566.4	1566.2	1564.2	1562.1	1560.1	1558.0
177.5°	1566.9	1568.5	1568.3	1566.3	1564.2	1562.1	1560.1
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8

(END OF REPORT)