

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: P332038-935

Luminaire Tested: **S123DIP-S1000D1195U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332038-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D1195U935-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7371.7 lumens  
Efficiency: N/A  
Efficacy: 112.7 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

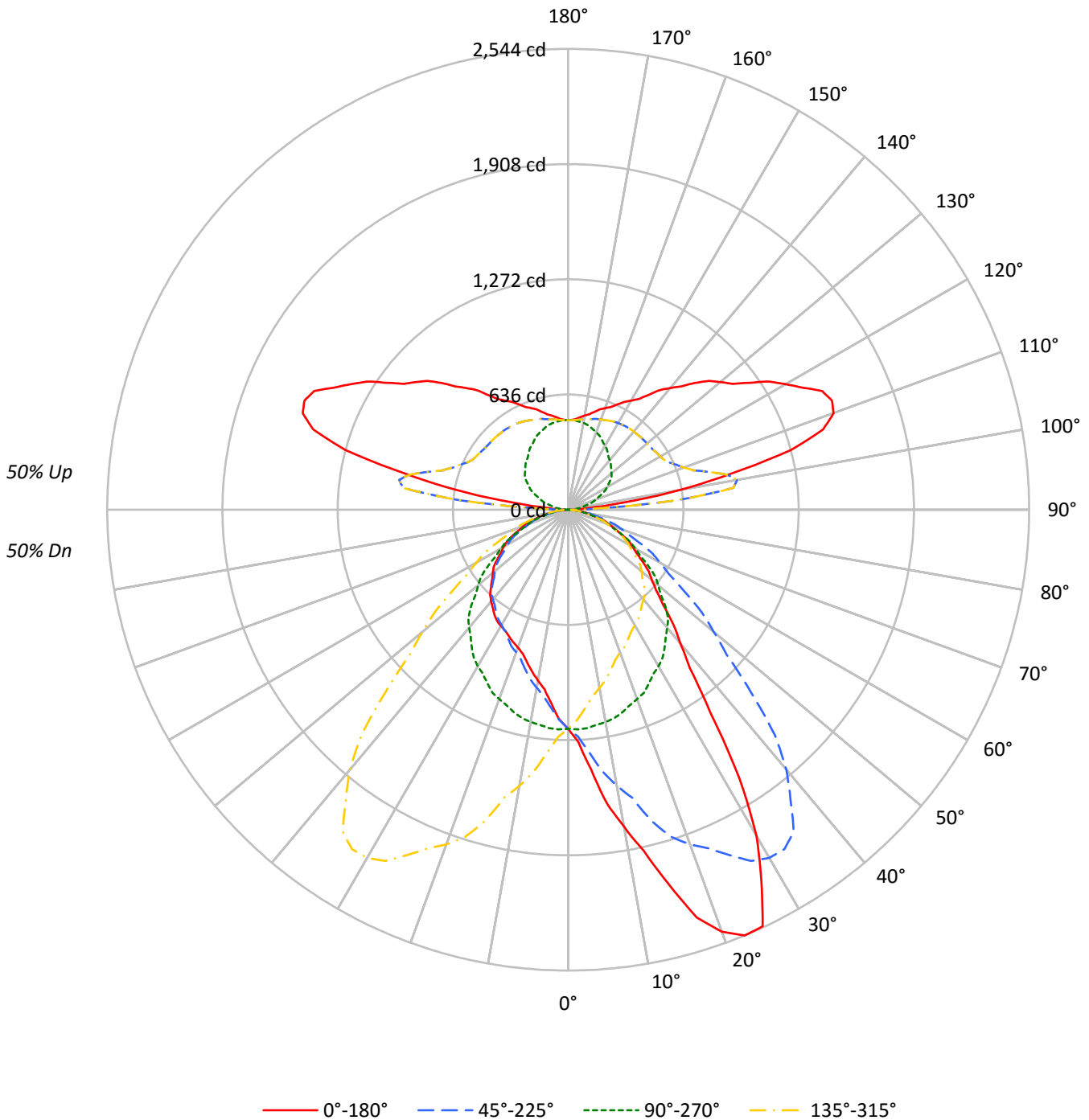
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	90	87	83	80	73	71	69	61	59	58	50	49	48	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	34	29	50	39	32	28	34	28	25	29	25	22	24	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	17	21	17	15	13

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

	0°	90°	180°	270°
0°	13017	13017	13017	13017
5°	15524	13073	11585	13073
10°	19429	13007	10463	13007
15°	23832	12902	9742	12902
20°	28389	12739	9275	12739
25°	30144	12539	9171	12539
30°	25838	12394	9220	12394
35°	17969	12188	9315	12188
40°	13534	11946	9286	11946
45°	11237	11586	9168	11586
50°	10068	10851	9085	10851
55°	9411	10061	8972	10061
60°	8829	9233	8880	9233
65°	8298	8418	8596	8418
70°	7783	7487	8186	7487
75°	6970	6554	7507	6554
80°	6100	5374	6465	5374
85°	4780	3903	4335	3903



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	1.6
10°-20°	382.0	5.2
20°-30°	641.1	8.7
30°-40°	725.9	9.8
40°-50°	651.0	8.8
50°-60°	525.3	7.1
60°-70°	366.1	5.0
70°-80°	192.4	2.6
80°-90°	50.9	0.7
90°-100°	275.0	3.7
100°-110°	778.7	10.6
110°-120°	766.1	10.4
120°-130°	611.0	8.3
130°-140°	481.8	6.5
140°-150°	359.6	4.9
150°-160°	250.6	3.4
160°-170°	147.2	2.0
170°-180°	47.9	0.6
0°-30°	1142.2	15.5
0°-40°	1868.1	25.3
0°-60°	3044.4	41.3
0°-90°	3653.7	49.6
90°-120°	1819.8	24.7
90°-150°	3272.2	44.4
90°-180°	3718.0	50.4
0°-180°	7371.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1209	1209	1209	1209	1209	
5°	1437	1210	1072	1210	1437	149
15°	2139	1158	874	1158	2139	617
25°	2538	1056	772	1056	2538	1113
35°	1368	928	709	928	1368	888
45°	738	761	602	761	738	584
55°	502	536	478	536	502	450
65°	326	330	338	330	326	324
75°	168	158	180	158	168	179
85°	39	32	35	32	39	46
90°	29	2	29	2	29	17
95°	116	34	116	34	116	209
105°	1272	116	1272	116	1272	1255
115°	1548	205	1548	205	1548	1504
125°	1220	285	1220	285	1220	1106
135°	989	334	989	334	989	767
145°	773	381	773	381	773	492
155°	641	433	641	433	641	299
165°	559	473	559	473	559	160
175°	503	493	503	493	503	49
180°	494	494	494	494	494	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1283.3	1282.5	1280.0	1281.9	1278.2	1273.1	1272.6	1267.9	1254.3	1253.4	1249.7
5°	1436.7	1431.9	1431.3	1430.8	1422.5	1411.4	1390.3	1388.6	1360.5	1346.4	1329.4
7.5°	1635.1	1637.6	1629.0	1621.5	1596.5	1579.9	1557.3	1528.4	1493.8	1458.8	1435.5
10°	1777.6	1797.0	1773.0	1756.5	1741.3	1712.6	1679.2	1637.6	1596.0	1547.4	1510.5
12.5°	1930.4	1939.9	1935.1	1919.7	1896.0	1852.3	1793.1	1747.3	1709.0	1628.0	1595.3
15°	2138.6	2174.3	2151.5	2098.7	2099.9	2058.3	1980.9	1896.0	1850.9	1779.9	1683.3
17.5°	2360.3	2364.7	2355.0	2311.0	2281.7	2224.6	2153.2	2071.7	1980.4	1894.5	1792.1
20°	2478.4	2474.9	2454.4	2431.5	2381.1	2336.6	2258.7	2167.8	2050.6	1966.3	1854.4
22.5°	2544.0	2538.1	2528.4	2509.3	2467.4	2419.6	2349.6	2250.3	2138.8	2022.6	1893.3
25°	2538.1	2545.7	2546.9	2541.7	2527.0	2498.3	2443.2	2364.1	2252.8	2103.4	1968.7
27.5°	2308.4	2319.3	2350.5	2378.3	2409.3	2441.0	2436.8	2397.5	2315.1	2186.1	2021.4
30°	2078.8	2055.4	2113.3	2186.6	2236.4	2324.3	2373.5	2376.4	2330.1	2219.4	2058.8
32.5°	1760.1	1785.8	1811.5	1901.6	2010.4	2109.1	2207.1	2286.0	2295.0	2221.3	2080.9
35°	1367.5	1399.7	1446.6	1493.5	1610.7	1711.4	1883.7	2033.7	2153.2	2169.0	2082.8
37.5°	1102.0	1117.9	1147.5	1194.6	1271.2	1390.7	1524.0	1713.6	1886.7	2015.5	2021.1
40°	963.2	967.9	1001.3	1037.1	1099.2	1197.6	1317.7	1485.2	1692.6	1872.6	1947.6
42.5°	859.2	869.4	883.6	918.0	967.4	1041.5	1153.1	1291.7	1481.8	1688.8	1835.5
45°	738.2	749.9	758.7	781.6	816.7	866.5	944.5	1071.0	1215.7	1429.6	1627.0
47.5°	658.3	659.3	665.8	683.0	707.0	744.3	799.4	880.7	1013.6	1187.1	1389.7
50°	601.2	610.5	612.9	626.3	645.1	672.6	718.3	787.5	896.5	1048.8	1235.1
52.5°	560.9	563.6	570.2	580.0	596.3	617.8	657.4	711.5	797.0	926.9	1098.2
55°	501.5	501.5	508.0	515.6	525.0	544.3	570.7	610.5	675.5	776.4	918.1
57.5°	446.7	449.6	454.2	456.5	464.5	477.3	499.3	529.5	578.1	655.7	768.4
60°	410.1	415.4	414.8	419.5	426.5	436.5	455.2	479.8	523.2	585.3	680.3
62.5°	378.2	377.9	377.8	383.4	390.5	399.9	412.2	433.4	470.3	525.3	606.1
65°	325.8	324.6	328.7	332.2	334.6	341.6	350.9	369.7	394.3	435.3	498.0
67.5°	279.1	275.7	277.9	279.1	283.1	288.6	297.4	309.0	328.6	361.5	408.7
70°	247.3	244.4	243.7	244.9	248.4	252.5	259.0	270.1	288.3	314.6	349.2
72.5°	214.5	212.4	212.3	214.9	216.5	219.2	223.8	234.0	248.4	268.2	300.5
75°	167.6	167.6	167.6	168.2	169.9	172.3	175.7	181.1	192.2	206.2	227.9
77.5°	125.6	125.5	124.8	124.7	127.3	128.3	129.2	134.1	140.3	149.7	165.6
80°	98.4	95.5	96.7	98.4	99.6	100.2	101.9	103.1	108.4	113.7	124.8
82.5°	73.1	70.7	70.9	73.6	73.8	74.4	76.2	77.8	79.8	84.6	90.6
85°	38.7	38.7	39.3	39.3	39.9	39.3	41.0	41.6	41.6	44.5	48.0
87.5°	19.9	19.1	19.4	19.6	19.4	19.5	19.7	20.0	20.2	20.9	20.8
90°	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0	24.0	25.0	22.0
92.5°	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2	116.1	153.9	169.3
95°	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2	481.1	593.2	528.2
97.5°	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7	983.5	919.3	673.0
100°	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4	1144.4	947.4	640.2
102.5°	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1	1152.4	895.4	592.2
105°	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5	1091.4	804.3	533.2
107.5°	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6	984.6	723.8	495.6
110°	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4	917.3	678.2	481.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9	858.9	647.8	473.2
115°	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4	788.2	615.2	470.2
117.5°	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9	745.6	596.0	472.0
120°	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3	723.2	587.2	475.2
122.5°	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7	704.8	581.6	480.8
125°	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3	681.2	574.2	489.1
127.5°	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9	660.5	570.6	498.8
130°	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3	649.2	568.2	505.1
132.5°	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3	638.9	567.4	510.0
135°	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2	625.3	566.2	517.2
137.5°	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6	613.4	564.0	522.0
140°	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2	606.2	563.2	525.2
142.5°	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6	599.8	561.6	527.6
145°	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2	591.2	559.2	529.2
147.5°	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8	582.8	555.4	529.2
150°	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2	577.2	552.2	529.2
152.5°	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4	570.8	548.2	526.8
155°	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2	561.2	541.2	524.2
157.5°	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2	550.4	535.0	520.8
160°	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2	543.2	530.2	519.2
162.5°	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6	536.0	525.4	516.0
165°	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2	526.2	518.1	511.2
167.5°	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4	516.8	511.0	506.4
170°	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2	511.2	506.2	503.2
172.5°	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8	505.6	502.1	500.8
175°	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2	499.2	497.1	497.1
177.5°	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8	495.0	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1246.8	1243.0	1239.3	1232.8	1227.1	1219.2	1216.8	1214.0	1205.6	1198.1	1192.4
5°	1322.9	1308.9	1288.4	1269.6	1254.4	1233.9	1222.2	1209.9	1192.3	1176.5	1163.6
7.5°	1402.7	1375.0	1343.2	1308.6	1276.6	1245.6	1220.6	1198.4	1173.8	1150.5	1132.3
10°	1465.9	1426.1	1381.6	1333.5	1292.5	1252.7	1219.3	1190.0	1158.3	1130.8	1107.9
12.5°	1538.1	1479.0	1417.6	1359.3	1310.8	1255.5	1215.0	1177.8	1141.9	1108.8	1083.1
15°	1623.5	1548.5	1475.9	1395.6	1321.8	1252.7	1204.6	1157.8	1116.1	1082.2	1049.4
17.5°	1701.3	1616.4	1520.6	1423.1	1333.9	1252.0	1184.7	1131.7	1079.7	1038.1	1005.4
20°	1745.4	1648.7	1540.3	1439.0	1340.6	1249.1	1175.4	1112.1	1055.8	1011.8	974.9
22.5°	1783.4	1670.3	1558.2	1449.8	1340.1	1241.6	1158.0	1092.9	1031.9	988.9	949.6
25°	1822.7	1687.4	1574.9	1447.8	1325.3	1223.4	1129.6	1055.8	994.9	944.5	904.0
27.5°	1856.5	1686.3	1552.7	1416.0	1302.1	1199.9	1099.8	1020.6	956.0	901.2	860.2
30°	1879.0	1688.6	1529.8	1394.5	1279.6	1174.1	1076.9	997.2	929.3	873.6	834.9
32.5°	1893.1	1687.1	1508.7	1364.4	1244.0	1150.7	1052.1	969.6	899.7	845.0	807.7
35°	1901.3	1676.9	1472.4	1302.4	1186.5	1095.6	1013.1	927.5	854.3	803.3	761.1
37.5°	1884.8	1655.2	1430.2	1242.7	1115.7	1026.2	956.7	883.9	813.8	757.7	721.3
40°	1859.1	1641.2	1397.4	1200.5	1067.0	980.8	921.6	850.2	781.0	727.7	693.7
42.5°	1809.8	1612.5	1361.3	1153.7	1016.3	930.1	875.7	816.0	750.5	700.5	666.5
45°	1689.7	1550.3	1307.2	1083.3	941.5	852.5	804.4	761.1	701.9	653.2	624.0
47.5°	1523.1	1456.6	1228.9	1009.2	863.5	777.8	727.9	693.0	649.8	610.5	582.4
50°	1407.3	1379.8	1175.9	958.6	811.5	727.7	679.7	648.0	617.0	577.7	551.9
52.5°	1273.8	1290.7	1114.0	906.0	758.5	676.1	630.9	605.8	577.6	545.4	522.9
55°	1085.7	1147.2	1007.2	817.9	679.7	601.2	558.4	536.1	519.7	495.7	476.3
57.5°	909.6	987.8	891.7	727.1	602.2	534.4	493.4	469.2	458.7	446.1	430.8
60°	805.0	882.4	809.2	666.2	550.2	485.7	449.4	428.9	418.4	409.6	396.7
62.5°	711.8	790.1	728.5	604.3	499.0	439.3	407.7	387.6	379.4	374.9	363.9
65°	583.6	650.9	609.9	508.0	425.9	373.2	344.5	330.5	322.9	321.1	314.0
67.5°	474.9	526.2	496.4	421.4	356.8	311.3	286.9	274.9	269.1	268.5	263.2
70°	403.7	451.8	428.9	360.9	305.2	269.5	248.4	237.9	234.4	233.8	230.8
72.5°	348.4	381.9	363.7	307.0	264.0	231.5	216.1	205.1	201.0	201.9	199.9
75°	257.8	283.0	272.4	233.2	198.6	177.5	164.6	157.6	154.1	155.8	153.5
77.5°	185.5	201.5	191.9	164.8	143.4	128.2	118.7	114.3	111.2	111.1	110.0
80°	140.0	149.4	144.1	127.7	110.1	97.3	89.6	86.7	85.0	84.4	83.8
82.5°	99.7	107.7	101.5	90.2	78.3	70.5	66.2	62.3	61.0	61.4	60.8
85°	50.4	53.3	51.0	43.9	39.3	35.7	33.4	31.6	30.5	31.1	29.9
87.5°	21.2	21.0	19.0	16.7	15.4	13.3	13.0	11.6	11.1	11.5	11.6
90°	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0	4.0	6.0	9.0
92.5°	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4	18.4	26.8	34.6
95°	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0	37.0	48.0	65.0
97.5°	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0	59.0	67.6	82.4
100°	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0	75.0	82.1	96.0
102.5°	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8	92.6	98.8	112.0
105°	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1	119.1	125.0	137.1
107.5°	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8	145.9	151.6	163.4
110°	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0	165.1	170.0	181.1





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7	182.7	187.7	198.6
115°	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1	209.1	215.1	225.1
117.5°	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5	235.1	240.0	249.3
120°	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1	251.1	256.1	266.1
122.5°	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3	266.3	271.3	282.1
125°	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1	287.1	293.1	304.1
127.5°	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7	304.7	312.1	323.3
130°	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1	315.1	324.1	336.1
132.5°	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1	323.9	333.7	348.1
135°	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2	338.1	349.1	364.1
137.5°	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3	351.5	362.3	378.3
140°	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1	361.1	371.1	387.1
142.5°	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8	370.0	380.7	395.1
145°	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2	384.1	393.1	408.1
147.5°	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7	398.6	407.3	420.3
150°	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2	408.1	416.1	429.1
152.5°	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6	417.8	425.8	437.1
155°	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2	433.2	439.2	449.2
157.5°	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6	446.3	451.2	459.9
160°	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1	455.1	459.2	467.2
162.5°	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4	462.4	465.5	472.0
165°	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2	472.2	474.2	479.1
167.5°	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4	480.2	481.1	485.0
170°	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2	484.1	485.2	488.2
172.5°	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4	488.2	488.4	490.6
175°	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2	492.1	491.2	493.2
177.5°	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0	494.2	493.4	494.2
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332038-935

CATALOG NUMBER: S123DIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1189.1	1185.9	1181.2	1174.1	1168.5	1159.6	1159.6	1161.1	1161.1	1160.5	1159.6
5°	1153.1	1144.3	1133.8	1121.5	1108.5	1095.6	1093.3	1088.6	1085.1	1082.7	1079.8
7.5°	1115.0	1099.4	1084.0	1066.8	1051.1	1038.1	1029.1	1021.6	1016.8	1011.6	1007.9
10°	1089.2	1069.9	1051.7	1033.5	1013.6	997.8	987.8	980.8	975.5	970.9	968.5
12.5°	1058.7	1036.6	1016.6	999.3	977.5	961.2	951.7	948.5	942.3	932.4	927.2
15°	1014.2	993.7	969.7	943.3	932.7	912.8	901.7	896.5	892.9	885.3	883.0
17.5°	976.1	949.3	922.3	902.7	883.0	866.9	860.7	854.1	849.5	843.3	841.4
20°	945.6	921.6	897.0	875.9	855.4	837.8	832.6	827.9	823.2	820.3	817.9
22.5°	914.7	890.7	870.3	850.6	828.7	817.2	811.5	806.3	803.1	801.1	798.7
25°	871.2	850.2	827.3	809.7	792.1	784.5	781.0	778.1	775.8	772.8	772.2
27.5°	832.3	809.3	790.8	774.5	761.8	755.4	752.1	750.6	751.1	752.2	752.9
30°	803.3	782.2	767.0	752.9	741.1	735.3	734.7	734.7	737.1	737.6	738.8
32.5°	776.5	759.2	744.0	730.4	721.5	717.5	719.7	719.7	721.6	723.2	725.2
35°	737.6	722.4	710.7	699.0	691.4	693.1	694.3	695.4	698.4	701.9	704.3
37.5°	700.5	687.3	675.1	665.9	662.5	665.6	668.4	670.9	674.2	676.9	679.3
40°	673.8	663.8	652.1	643.9	645.1	646.9	649.2	652.1	655.0	656.8	659.2
42.5°	648.9	638.5	629.6	622.8	624.5	626.7	628.1	629.6	633.0	636.2	637.6
45°	611.1	602.9	594.7	590.6	591.8	593.0	594.1	595.9	598.8	601.2	601.8
47.5°	568.5	562.8	557.3	553.4	555.2	554.7	556.3	560.0	560.9	562.3	565.6
50°	541.4	536.1	529.7	528.5	528.5	528.5	529.1	533.7	533.7	536.1	538.5
52.5°	511.3	508.0	503.9	501.8	500.8	500.8	503.3	505.7	506.6	509.9	512.2
55°	467.0	463.5	459.9	458.1	457.0	458.1	462.9	464.0	467.0	468.7	470.5
57.5°	420.7	418.0	415.2	414.2	414.0	415.5	418.1	421.6	422.3	427.7	430.4
60°	390.2	386.1	383.7	383.7	382.6	387.9	386.7	392.5	393.7	397.3	401.3
62.5°	358.8	353.3	352.3	352.3	354.0	355.5	357.1	359.7	362.8	367.2	370.4
65°	308.2	305.2	309.4	308.8	307.6	311.1	311.1	314.0	317.5	321.7	328.1
67.5°	260.3	258.7	259.1	259.1	260.9	262.9	264.5	267.1	271.3	275.6	279.8
70°	227.9	229.7	226.8	229.1	230.8	231.4	232.6	236.1	240.8	243.7	248.4
72.5°	196.5	196.4	196.7	197.7	199.4	200.5	201.6	205.7	210.8	213.3	217.1
75°	151.2	150.6	152.3	152.3	155.2	156.4	157.6	159.4	164.0	167.6	170.5
77.5°	110.4	111.1	110.7	112.7	111.9	112.1	115.8	117.5	118.0	124.9	126.5
80°	83.2	84.4	85.0	85.6	86.1	85.0	89.0	90.8	90.8	94.9	97.8
82.5°	59.8	60.4	62.0	62.6	62.7	63.9	64.2	65.5	66.9	68.7	72.5
85°	29.9	31.6	32.2	31.6	32.2	31.1	32.8	33.4	34.0	34.0	34.0
87.5°	11.5	12.5	12.6	13.6	13.8	14.8	14.6	13.9	14.1	15.8	14.2
90°	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0	26.0	27.0	29.0
92.5°	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2	66.8	59.0	53.8
95°	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2	244.1	191.1	155.1
97.5°	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7	719.0	590.0	470.4
100°	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4	1098.4	981.4	839.3
102.5°	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1	1270.4	1202.2	1112.2
105°	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5	1400.5	1419.5	1393.5
107.5°	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6	1384.1	1471.7	1507.4
110°	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4	1330.5	1456.6	1526.6



TEST NUMBER: P332038-935

CATALOG NUMBER: S123DIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9	1260.1	1401.3	1491.3
115°	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4	1147.4	1294.4	1403.5
117.5°	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9	1052.1	1184.2	1294.9
120°	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3	999.4	1119.4	1220.5
122.5°	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7	956.9	1068.2	1162.0
125°	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3	904.3	1000.3	1080.4
127.5°	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9	858.1	944.7	1017.5
130°	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3	829.3	910.3	978.4
132.5°	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3	802.1	877.5	942.4
135°	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2	763.3	828.3	885.3
137.5°	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6	725.8	781.9	831.3
140°	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2	704.2	752.3	795.3
142.5°	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6	683.5	725.0	762.5
145°	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2	656.3	688.3	717.2
147.5°	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8	636.0	661.9	682.4
150°	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2	623.2	644.2	663.2
152.5°	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4	611.2	629.8	645.7
155°	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2	594.2	609.2	621.2
157.5°	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2	577.6	589.2	598.6
160°	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2	567.2	577.2	584.2
162.5°	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6	556.0	565.2	571.4
165°	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2	540.2	547.2	552.2
167.5°	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4	528.0	532.0	535.6
170°	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2	519.2	523.1	525.2
172.5°	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8	512.0	515.2	516.3
175°	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2	502.1	504.2	504.2
177.5°	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8	496.5	497.4	497.4
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332038-935

CATALOG NUMBER: S123DIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1156.3	1155.9	1159.2	1156.8	1159.2	1155.9	1156.3	1159.6	1160.5	1161.1	1161.1
5°	1076.3	1078.1	1072.2	1072.2	1072.2	1078.1	1076.3	1079.8	1082.7	1085.1	1088.6
7.5°	1005.0	1002.5	1002.7	999.5	1002.7	1002.5	1005.0	1007.9	1011.6	1016.8	1021.6
10°	961.5	957.9	956.7	957.3	956.7	957.9	961.5	968.5	970.9	975.5	980.8
12.5°	925.4	924.7	917.0	917.1	917.0	924.7	925.4	927.2	932.4	942.3	948.5
15°	883.0	871.8	870.6	874.2	870.6	871.8	883.0	883.0	885.3	892.9	896.5
17.5°	840.4	834.6	834.9	833.2	834.9	834.6	840.4	841.4	843.3	849.5	854.1
20°	817.9	814.4	813.8	809.7	813.8	814.4	817.9	817.9	820.3	823.2	827.9
22.5°	797.3	796.2	796.5	791.9	796.5	796.2	797.3	798.7	801.1	803.1	806.3
25°	771.6	774.6	772.2	772.2	772.2	774.6	771.6	772.2	772.8	775.8	778.1
27.5°	754.3	754.1	753.0	753.0	753.0	754.1	754.3	752.9	752.2	751.1	750.6
30°	741.1	740.5	741.8	741.8	741.8	740.5	741.1	738.8	737.6	737.1	734.7
32.5°	728.1	728.8	729.1	729.5	729.1	728.8	728.1	725.2	723.2	721.6	719.7
35°	707.7	708.3	710.2	708.9	710.2	708.3	707.7	704.3	701.9	698.4	695.4
37.5°	680.4	683.0	682.4	683.4	682.4	683.0	680.4	679.3	676.9	674.2	670.9
40°	659.7	661.5	660.9	660.9	660.9	661.5	659.7	659.2	656.8	655.0	652.1
42.5°	638.6	639.9	638.4	637.5	638.4	639.9	638.6	637.6	636.2	633.0	629.6
45°	604.1	602.9	604.7	602.3	604.7	602.9	604.1	601.8	601.2	598.8	595.9
47.5°	565.4	566.5	567.1	568.8	567.1	566.5	565.4	565.6	562.3	560.9	560.0
50°	539.6	543.1	543.1	542.5	543.1	543.1	539.6	538.5	536.1	533.7	533.7
52.5°	514.3	515.9	518.3	518.1	518.3	515.9	514.3	512.2	509.9	506.6	505.7
55°	475.2	476.3	477.5	478.1	477.5	476.3	475.2	470.5	468.7	467.0	464.0
57.5°	434.6	434.1	437.0	437.8	437.0	434.1	434.6	430.4	427.7	422.3	421.6
60°	406.0	406.0	410.7	412.5	410.7	406.0	406.0	401.3	397.3	393.7	392.5
62.5°	375.6	377.5	382.1	379.7	382.1	377.5	375.6	370.4	367.2	362.8	359.7
65°	331.1	335.7	335.1	337.5	335.1	335.7	331.1	328.1	321.7	317.5	314.0
67.5°	284.5	287.4	291.6	292.1	291.6	287.4	284.5	279.8	275.6	271.3	267.1
70°	253.1	256.1	258.4	260.1	258.4	256.1	253.1	248.4	243.7	240.8	236.1
72.5°	222.7	224.2	229.8	227.3	229.8	224.2	222.7	217.1	213.3	210.8	205.7
75°	174.6	178.7	182.2	180.5	182.2	178.7	174.6	170.5	167.6	164.0	159.4
77.5°	129.2	133.2	134.8	133.4	134.8	133.2	129.2	126.5	124.9	118.0	117.5
80°	101.9	101.3	104.9	104.3	104.9	101.3	101.9	97.8	94.9	90.8	90.8
82.5°	74.7	74.2	75.9	76.2	75.9	74.2	74.7	72.5	68.7	66.9	65.5
85°	36.3	38.1	35.7	35.1	35.7	38.1	36.3	34.0	34.0	34.0	33.4
87.5°	14.0	14.2	13.9	13.3	13.9	14.2	14.0	14.2	15.8	14.1	13.9
90°	28.0	29.0	30.0	29.0	30.0	29.0	28.0	29.0	27.0	26.0	25.0
92.5°	52.0	49.0	50.0	48.2	50.0	49.0	52.0	53.8	59.0	66.8	84.2
95°	136.0	127.1	120.0	116.1	120.0	127.1	136.0	155.1	191.1	244.1	360.2
97.5°	396.6	351.5	324.5	315.9	324.5	351.5	396.6	470.4	590.0	719.0	897.7
100°	738.2	665.2	626.2	627.2	626.2	665.2	738.2	839.3	981.4	1098.4	1179.4
102.5°	1033.5	975.8	943.1	920.2	943.1	975.8	1033.5	1112.2	1202.2	1270.4	1273.1
105°	1347.5	1309.5	1277.5	1272.5	1277.5	1309.5	1347.5	1393.5	1419.5	1400.5	1300.5
107.5°	1508.1	1495.3	1484.5	1475.3	1484.5	1495.3	1508.1	1507.4	1471.7	1384.1	1221.6
110°	1554.5	1562.5	1560.6	1558.6	1560.6	1562.5	1554.5	1526.6	1456.6	1330.5	1146.4



TEST NUMBER: P332038-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1542.6	1567.4	1574.9	1575.4	1574.9	1567.4	1542.6	1491.3	1401.3	1260.1	1071.9
115°	1478.5	1522.5	1542.6	1547.6	1542.6	1522.5	1478.5	1403.5	1294.4	1147.4	973.4
117.5°	1373.1	1423.5	1452.3	1459.1	1452.3	1423.5	1373.1	1294.9	1184.2	1052.1	901.9
120°	1299.4	1355.5	1379.5	1385.5	1379.5	1355.5	1299.4	1220.5	1119.4	999.4	864.3
122.5°	1232.3	1282.6	1309.1	1316.6	1309.1	1282.6	1232.3	1162.0	1068.2	956.9	834.7
125°	1144.4	1188.4	1213.4	1220.5	1213.4	1188.4	1144.4	1080.4	1000.3	904.3	795.3
127.5°	1074.6	1112.2	1134.8	1141.2	1134.8	1112.2	1074.6	1017.5	944.7	858.1	760.9
130°	1031.4	1067.4	1088.4	1096.4	1088.4	1067.4	1031.4	978.4	910.3	829.3	739.3
132.5°	992.1	1028.1	1046.8	1052.4	1046.8	1028.1	992.1	942.4	877.5	802.1	719.3
135°	934.4	964.3	982.3	989.4	982.3	964.3	934.4	885.3	828.3	763.3	692.2
137.5°	872.5	902.9	918.1	922.7	918.1	902.9	872.5	831.3	781.9	725.8	667.6
140°	833.3	861.3	877.3	876.3	877.3	861.3	833.3	795.3	752.3	704.2	653.2
142.5°	794.9	819.7	834.1	833.1	834.1	819.7	794.9	762.5	725.0	683.5	639.6
145°	742.3	763.3	771.3	773.3	771.3	763.3	742.3	717.2	688.3	656.3	623.2
147.5°	701.5	715.7	723.2	724.0	723.2	715.7	701.5	682.4	661.9	636.0	609.8
150°	678.2	689.2	695.3	695.3	695.3	689.2	678.2	663.2	644.2	623.2	600.2
152.5°	657.5	667.6	671.2	671.2	671.2	667.6	657.5	645.7	629.8	611.2	591.4
155°	630.3	638.3	640.2	641.2	640.2	638.3	630.3	621.2	609.2	594.2	578.2
157.5°	606.4	612.4	614.0	613.8	614.0	612.4	606.4	598.6	589.2	577.6	564.2
160°	591.2	597.2	597.2	596.2	597.2	597.2	591.2	584.2	577.2	567.2	556.2
162.5°	576.0	581.2	581.2	580.2	581.2	581.2	576.0	571.4	565.2	556.0	546.6
165°	556.2	560.2	559.2	559.2	559.2	560.2	556.2	552.2	547.2	540.2	534.2
167.5°	537.4	540.2	539.2	539.2	539.2	540.2	537.4	535.6	532.0	528.0	523.4
170°	526.2	528.2	527.2	527.2	527.2	528.2	526.2	525.2	523.1	519.2	516.2
172.5°	516.6	518.6	516.8	516.0	516.8	518.6	516.6	516.3	515.2	512.0	509.8
175°	504.2	505.1	504.2	503.2	504.2	505.1	504.2	504.2	504.2	502.1	501.2
177.5°	496.5	497.4	495.8	495.8	495.8	497.4	496.5	497.4	497.4	496.5	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332038-935

CATALOG NUMBER: S123DIP-S1000D1195U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1159.6	1159.6	1168.5	1174.1	1181.2	1185.9	1189.1	1192.4	1198.1	1205.6	1214.0
5°	1093.3	1095.6	1108.5	1121.5	1133.8	1144.3	1153.1	1163.6	1176.5	1192.3	1209.9
7.5°	1029.1	1038.1	1051.1	1066.8	1084.0	1099.4	1115.0	1132.3	1150.5	1173.8	1198.4
10°	987.8	997.8	1013.6	1033.5	1051.7	1069.9	1089.2	1107.9	1130.8	1158.3	1190.0
12.5°	951.7	961.2	977.5	999.3	1016.6	1036.6	1058.7	1083.1	1108.8	1141.9	1177.8
15°	901.7	912.8	932.7	943.3	969.7	993.7	1014.2	1049.4	1082.2	1116.1	1157.8
17.5°	860.7	866.9	883.0	902.7	922.3	949.3	976.1	1005.4	1038.1	1079.7	1131.7
20°	832.6	837.8	855.4	875.9	897.0	921.6	945.6	974.9	1011.8	1055.8	1112.1
22.5°	811.5	817.2	828.7	850.6	870.3	890.7	914.7	949.6	988.9	1031.9	1092.9
25°	781.0	784.5	792.1	809.7	827.3	850.2	871.2	904.0	944.5	994.9	1055.8
27.5°	752.1	755.4	761.8	774.5	790.8	809.3	832.3	860.2	901.2	956.0	1020.6
30°	734.7	735.3	741.1	752.9	767.0	782.2	803.3	834.9	873.6	929.3	997.2
32.5°	719.7	717.5	721.5	730.4	744.0	759.2	776.5	807.7	845.0	899.7	969.6
35°	694.3	693.1	691.4	699.0	710.7	722.4	737.6	761.1	803.3	854.3	927.5
37.5°	668.4	665.6	662.5	665.9	675.1	687.3	700.5	721.3	757.7	813.8	883.9
40°	649.2	646.9	645.1	643.9	652.1	663.8	673.8	693.7	727.7	781.0	850.2
42.5°	628.1	626.7	624.5	622.8	629.6	638.5	648.9	666.5	700.5	750.5	816.0
45°	594.1	593.0	591.8	590.6	594.7	602.9	611.1	624.0	653.2	701.9	761.1
47.5°	556.3	554.7	555.2	553.4	557.3	562.8	568.5	582.4	610.5	649.8	693.0
50°	529.1	528.5	528.5	528.5	529.7	536.1	541.4	551.9	577.7	617.0	648.0
52.5°	503.3	500.8	500.8	501.8	503.9	508.0	511.3	522.9	545.4	577.6	605.8
55°	462.9	458.1	457.0	458.1	459.9	463.5	467.0	476.3	495.7	519.7	536.1
57.5°	418.1	415.5	414.0	414.2	415.2	418.0	420.7	430.8	446.1	458.7	469.2
60°	386.7	387.9	382.6	383.7	383.7	386.1	390.2	396.7	409.6	418.4	428.9
62.5°	357.1	355.5	354.0	352.3	352.3	353.3	358.8	363.9	374.9	379.4	387.6
65°	311.1	311.1	307.6	308.8	309.4	305.2	308.2	314.0	321.1	322.9	330.5
67.5°	264.5	262.9	260.9	259.1	259.1	258.7	260.3	263.2	268.5	269.1	274.9
70°	232.6	231.4	230.8	229.1	226.8	229.7	227.9	230.8	233.8	234.4	237.9
72.5°	201.6	200.5	199.4	197.7	196.7	196.4	196.5	199.9	201.9	201.0	205.1
75°	157.6	156.4	155.2	152.3	152.3	150.6	151.2	153.5	155.8	154.1	157.6
77.5°	115.8	112.1	111.9	112.7	110.7	111.1	110.4	110.0	111.1	111.2	114.3
80°	89.0	85.0	86.1	85.6	85.0	84.4	83.2	83.8	84.4	85.0	86.7
82.5°	64.2	63.9	62.7	62.6	62.0	60.4	59.8	60.8	61.4	61.0	62.3
85°	32.8	31.1	32.2	31.6	32.2	31.6	29.9	29.9	31.1	30.5	31.6
87.5°	14.6	14.8	13.8	13.6	12.6	12.5	11.5	11.6	11.5	11.1	11.6
90°	24.0	25.0	22.0	19.0	16.0	13.0	11.0	9.0	6.0	4.0	2.0
92.5°	116.1	153.9	169.3	127.1	84.0	57.9	43.0	34.6	26.8	18.4	12.4
95°	481.1	593.2	528.2	364.1	215.1	130.0	91.0	65.0	48.0	37.0	34.0
97.5°	983.5	919.3	673.0	399.5	231.5	150.2	108.1	82.4	67.6	59.0	58.0
100°	1144.4	947.4	640.2	377.1	229.1	159.0	120.0	96.0	82.1	75.0	74.0
102.5°	1152.4	895.4	592.2	357.9	232.3	169.4	133.6	112.0	98.8	92.6	90.8
105°	1091.4	804.3	533.2	344.1	241.1	187.1	156.0	137.1	125.0	119.1	116.1
107.5°	984.6	723.8	495.6	343.1	257.5	210.1	181.2	163.4	151.6	145.9	142.8
110°	917.3	678.2	481.1	347.2	271.1	226.1	198.0	181.1	170.0	165.1	162.0



TEST NUMBER: P332038-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	858.9	647.8	473.2	355.2	284.7	242.9	215.7	198.6	187.7	182.7	179.7
115°	788.2	615.2	470.2	368.2	307.1	269.1	242.1	225.1	215.1	209.1	205.1
117.5°	745.6	596.0	472.0	385.3	330.9	293.3	268.3	249.3	240.0	235.1	230.5
120°	723.2	587.2	475.2	398.1	346.1	310.1	285.1	266.1	256.1	251.1	248.1
122.5°	704.8	581.6	480.8	410.2	362.1	326.9	300.3	282.1	271.3	266.3	263.3
125°	681.2	574.2	489.1	429.1	385.1	350.1	323.1	304.1	293.1	287.1	285.1
127.5°	660.5	570.6	498.8	444.8	405.1	371.3	344.3	323.3	312.1	304.7	301.7
130°	649.2	568.2	505.1	455.1	417.2	384.1	357.1	336.1	324.1	315.1	312.1
132.5°	638.9	567.4	510.0	464.8	427.6	395.4	369.1	348.1	333.7	323.9	320.1
135°	625.3	566.2	517.2	477.2	443.2	412.2	385.1	364.1	349.1	338.1	334.2
137.5°	613.4	564.0	522.0	486.4	453.9	424.1	399.2	378.3	362.3	351.5	347.3
140°	606.2	563.2	525.2	491.2	461.2	432.1	407.2	387.1	371.1	361.1	356.1
142.5°	599.8	561.6	527.6	495.9	466.7	438.6	415.2	395.1	380.7	370.0	365.8
145°	591.2	559.2	529.2	501.2	474.2	448.2	425.2	408.1	393.1	384.1	381.2
147.5°	582.8	555.4	529.2	504.4	480.2	456.3	436.8	420.3	407.3	398.6	396.7
150°	577.2	552.2	529.2	505.1	484.1	461.2	443.2	429.1	416.1	408.1	407.2
152.5°	570.8	548.2	526.8	506.8	486.6	466.7	449.5	437.1	425.8	417.8	417.6
155°	561.2	541.2	524.2	507.2	491.2	474.2	460.1	449.2	439.2	433.2	433.2
157.5°	550.4	535.0	520.8	508.2	493.8	480.2	469.3	459.9	451.2	446.3	445.6
160°	543.2	530.2	519.2	508.2	496.2	484.1	474.2	467.2	459.2	455.1	455.1
162.5°	536.0	525.4	516.0	507.4	497.0	486.6	478.2	472.0	465.5	462.4	462.4
165°	526.2	518.1	511.2	505.1	498.2	490.2	483.2	479.1	474.2	472.2	473.2
167.5°	516.8	511.0	506.4	503.6	498.0	492.1	487.8	485.0	481.1	480.2	481.4
170°	511.2	506.2	503.2	501.2	497.1	492.1	490.2	488.2	485.2	484.1	486.2
172.5°	505.6	502.1	500.8	500.4	497.1	493.0	491.8	490.6	488.4	488.2	489.4
175°	499.2	497.1	497.1	498.2	496.2	494.2	493.2	493.2	491.2	492.1	493.2
177.5°	495.0	494.2	495.0	496.5	495.0	494.2	494.2	494.2	493.4	494.2	495.0
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



TEST NUMBER: P332038-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1216.8	1219.2	1227.1	1232.8	1239.3	1243.0	1246.8	1249.7	1253.4	1254.3	1267.9
5°	1222.2	1233.9	1254.4	1269.6	1288.4	1308.9	1322.9	1329.4	1346.4	1360.5	1388.6
7.5°	1220.6	1245.6	1276.6	1308.6	1343.2	1375.0	1402.7	1435.5	1458.8	1493.8	1528.4
10°	1219.3	1252.7	1292.5	1333.5	1381.6	1426.1	1465.9	1510.5	1547.4	1596.0	1637.6
12.5°	1215.0	1255.5	1310.8	1359.3	1417.6	1479.0	1538.1	1595.3	1628.0	1709.0	1747.3
15°	1204.6	1252.7	1321.8	1395.6	1475.9	1548.5	1623.5	1683.3	1779.9	1850.9	1896.0
17.5°	1184.7	1252.0	1333.9	1423.1	1520.6	1616.4	1701.3	1792.1	1894.5	1980.4	2071.7
20°	1175.4	1249.1	1340.6	1439.0	1540.3	1648.7	1745.4	1854.4	1966.3	2050.6	2167.8
22.5°	1158.0	1241.6	1340.1	1449.8	1558.2	1670.3	1783.4	1893.3	2022.6	2138.8	2250.3
25°	1129.6	1223.4	1325.3	1447.8	1574.9	1687.4	1822.7	1968.7	2103.4	2252.8	2364.1
27.5°	1099.8	1199.9	1302.1	1416.0	1552.7	1686.3	1856.5	2021.4	2186.1	2315.1	2397.5
30°	1076.9	1174.1	1279.6	1394.5	1529.8	1688.6	1879.0	2058.8	2219.4	2330.1	2376.4
32.5°	1052.1	1150.7	1244.0	1364.4	1508.7	1687.1	1893.1	2080.9	2221.3	2295.0	2286.0
35°	1013.1	1095.6	1186.5	1302.4	1472.4	1676.9	1901.3	2082.8	2169.0	2153.2	2033.7
37.5°	956.7	1026.2	1115.7	1242.7	1430.2	1655.2	1884.8	2021.1	2015.5	1886.7	1713.6
40°	921.6	980.8	1067.0	1200.5	1397.4	1641.2	1859.1	1947.6	1872.6	1692.6	1485.2
42.5°	875.7	930.1	1016.3	1153.7	1361.3	1612.5	1809.8	1835.5	1688.8	1481.8	1291.7
45°	804.4	852.5	941.5	1083.3	1307.2	1550.3	1689.7	1627.0	1429.6	1215.7	1071.0
47.5°	727.9	777.8	863.5	1009.2	1228.9	1456.6	1523.1	1389.7	1187.1	1013.6	880.7
50°	679.7	727.7	811.5	958.6	1175.9	1379.8	1407.3	1235.1	1048.8	896.5	787.5
52.5°	630.9	676.1	758.5	906.0	1114.0	1290.7	1273.8	1098.2	926.9	797.0	711.5
55°	558.4	601.2	679.7	817.9	1007.2	1147.2	1085.7	918.1	776.4	675.5	610.5
57.5°	493.4	534.4	602.2	727.1	891.7	987.8	909.6	768.4	655.7	578.1	529.5
60°	449.4	485.7	550.2	666.2	809.2	882.4	805.0	680.3	585.3	523.2	479.8
62.5°	407.7	439.3	499.0	604.3	728.5	790.1	711.8	606.1	525.3	470.3	433.4
65°	344.5	373.2	425.9	508.0	609.9	650.9	583.6	498.0	435.3	394.3	369.7
67.5°	286.9	311.3	356.8	421.4	496.4	526.2	474.9	408.7	361.5	328.6	309.0
70°	248.4	269.5	305.2	360.9	428.9	451.8	403.7	349.2	314.6	288.3	270.1
72.5°	216.1	231.5	264.0	307.0	363.7	381.9	348.4	300.5	268.2	248.4	234.0
75°	164.6	177.5	198.6	233.2	272.4	283.0	257.8	227.9	206.2	192.2	181.1
77.5°	118.7	128.2	143.4	164.8	191.9	201.5	185.5	165.6	149.7	140.3	134.1
80°	89.6	97.3	110.1	127.7	144.1	149.4	140.0	124.8	113.7	108.4	103.1
82.5°	66.2	70.5	78.3	90.2	101.5	107.7	99.7	90.6	84.6	79.8	77.8
85°	33.4	35.7	39.3	43.9	51.0	53.3	50.4	48.0	44.5	41.6	41.6
87.5°	13.0	13.3	15.4	16.7	19.0	21.0	21.2	20.8	20.9	20.2	20.0
90°	4.0	6.0	9.0	11.0	13.0	16.0	19.0	22.0	25.0	24.0	25.0
92.5°	18.4	26.8	34.6	43.0	57.9	84.0	127.1	169.3	153.9	116.1	84.2
95°	37.0	48.0	65.0	91.0	130.0	215.1	364.1	528.2	593.2	481.1	360.2
97.5°	59.0	67.6	82.4	108.1	150.2	231.5	399.5	673.0	919.3	983.5	897.7
100°	75.0	82.1	96.0	120.0	159.0	229.1	377.1	640.2	947.4	1144.4	1179.4
102.5°	92.6	98.8	112.0	133.6	169.4	232.3	357.9	592.2	895.4	1152.4	1273.1
105°	119.1	125.0	137.1	156.0	187.1	241.1	344.1	533.2	804.3	1091.4	1300.5
107.5°	145.9	151.6	163.4	181.2	210.1	257.5	343.1	495.6	723.8	984.6	1221.6
110°	165.1	170.0	181.1	198.0	226.1	271.1	347.2	481.1	678.2	917.3	1146.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	182.7	187.7	198.6	215.7	242.9	284.7	355.2	473.2	647.8	858.9	1071.9
115°	209.1	215.1	225.1	242.1	269.1	307.1	368.2	470.2	615.2	788.2	973.4
117.5°	235.1	240.0	249.3	268.3	293.3	330.9	385.3	472.0	596.0	745.6	901.9
120°	251.1	256.1	266.1	285.1	310.1	346.1	398.1	475.2	587.2	723.2	864.3
122.5°	266.3	271.3	282.1	300.3	326.9	362.1	410.2	480.8	581.6	704.8	834.7
125°	287.1	293.1	304.1	323.1	350.1	385.1	429.1	489.1	574.2	681.2	795.3
127.5°	304.7	312.1	323.3	344.3	371.3	405.1	444.8	498.8	570.6	660.5	760.9
130°	315.1	324.1	336.1	357.1	384.1	417.2	455.1	505.1	568.2	649.2	739.3
132.5°	323.9	333.7	348.1	369.1	395.4	427.6	464.8	510.0	567.4	638.9	719.3
135°	338.1	349.1	364.1	385.1	412.2	443.2	477.2	517.2	566.2	625.3	692.2
137.5°	351.5	362.3	378.3	399.2	424.1	453.9	486.4	522.0	564.0	613.4	667.6
140°	361.1	371.1	387.1	407.2	432.1	461.2	491.2	525.2	563.2	606.2	653.2
142.5°	370.0	380.7	395.1	415.2	438.6	466.7	495.9	527.6	561.6	599.8	639.6
145°	384.1	393.1	408.1	425.2	448.2	474.2	501.2	529.2	559.2	591.2	623.2
147.5°	398.6	407.3	420.3	436.8	456.3	480.2	504.4	529.2	555.4	582.8	609.8
150°	408.1	416.1	429.1	443.2	461.2	484.1	505.1	529.2	552.2	577.2	600.2
152.5°	417.8	425.8	437.1	449.5	466.7	486.6	506.8	526.8	548.2	570.8	591.4
155°	433.2	439.2	449.2	460.1	474.2	491.2	507.2	524.2	541.2	561.2	578.2
157.5°	446.3	451.2	459.9	469.3	480.2	493.8	508.2	520.8	535.0	550.4	564.2
160°	455.1	459.2	467.2	474.2	484.1	496.2	508.2	519.2	530.2	543.2	556.2
162.5°	462.4	465.5	472.0	478.2	486.6	497.0	507.4	516.0	525.4	536.0	546.6
165°	472.2	474.2	479.1	483.2	490.2	498.2	505.1	511.2	518.1	526.2	534.2
167.5°	480.2	481.1	485.0	487.8	492.1	498.0	503.6	506.4	511.0	516.8	523.4
170°	484.1	485.2	488.2	490.2	492.1	497.1	501.2	503.2	506.2	511.2	516.2
172.5°	488.2	488.4	490.6	491.8	493.0	497.1	500.4	500.8	502.1	505.6	509.8
175°	492.1	491.2	493.2	493.2	494.2	496.2	498.2	497.1	497.1	499.2	501.2
177.5°	494.2	493.4	494.2	494.2	494.2	495.0	496.5	495.0	494.2	495.0	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2	494.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1272.6	1273.1	1278.2	1281.9	1280.0	1282.5	1283.3
5°	1390.3	1411.4	1422.5	1430.8	1431.3	1431.9	1436.7
7.5°	1557.3	1579.9	1596.5	1621.5	1629.0	1637.6	1635.1
10°	1679.2	1712.6	1741.3	1756.5	1773.0	1797.0	1777.6
12.5°	1793.1	1852.3	1896.0	1919.7	1935.1	1939.9	1930.4
15°	1980.9	2058.3	2099.9	2098.7	2151.5	2174.3	2138.6
17.5°	2153.2	2224.6	2281.7	2311.0	2355.0	2364.7	2360.3
20°	2258.7	2336.6	2381.1	2431.5	2454.4	2474.9	2478.4
22.5°	2349.6	2419.6	2467.4	2509.3	2528.4	2538.1	2544.0
25°	2443.2	2498.3	2527.0	2541.7	2546.9	2545.7	2538.1
27.5°	2436.8	2441.0	2409.3	2378.3	2350.5	2319.3	2308.4
30°	2373.5	2324.3	2236.4	2186.6	2113.3	2055.4	2078.8
32.5°	2207.1	2109.1	2010.4	1901.6	1811.5	1785.8	1760.1
35°	1883.7	1711.4	1610.7	1493.5	1446.6	1399.7	1367.5
37.5°	1524.0	1390.7	1271.2	1194.6	1147.5	1117.9	1102.0
40°	1317.7	1197.6	1099.2	1037.1	1001.3	967.9	963.2
42.5°	1153.1	1041.5	967.4	918.0	883.6	869.4	859.2
45°	944.5	866.5	816.7	781.6	758.7	749.9	738.2
47.5°	799.4	744.3	707.0	683.0	665.8	659.3	658.3
50°	718.3	672.6	645.1	626.3	612.9	610.5	601.2
52.5°	657.4	617.8	596.3	580.0	570.2	563.6	560.9
55°	570.7	544.3	525.0	515.6	508.0	501.5	501.5
57.5°	499.3	477.3	464.5	456.5	454.2	449.6	446.7
60°	455.2	436.5	426.5	419.5	414.8	415.4	410.1
62.5°	412.2	399.9	390.5	383.4	377.8	377.9	378.2
65°	350.9	341.6	334.6	332.2	328.7	324.6	325.8
67.5°	297.4	288.6	283.1	279.1	277.9	275.7	279.1
70°	259.0	252.5	248.4	244.9	243.7	244.4	247.3
72.5°	223.8	219.2	216.5	214.9	212.3	212.4	214.5
75°	175.7	172.3	169.9	168.2	167.6	167.6	167.6
77.5°	129.2	128.3	127.3	124.7	124.8	125.5	125.6
80°	101.9	100.2	99.6	98.4	96.7	95.5	98.4
82.5°	76.2	74.4	73.8	73.6	70.9	70.7	73.1
85°	41.0	39.3	39.9	39.3	39.3	38.7	38.7
87.5°	19.7	19.5	19.4	19.6	19.4	19.1	19.9
90°	26.0	27.0	29.0	28.0	29.0	30.0	29.0
92.5°	66.8	59.0	53.8	52.0	49.0	50.0	48.2
95°	244.1	191.1	155.1	136.0	127.1	120.0	116.1
97.5°	719.0	590.0	470.4	396.6	351.5	324.5	315.9
100°	1098.4	981.4	839.3	738.2	665.2	626.2	627.2
102.5°	1270.4	1202.2	1112.2	1033.5	975.8	943.1	920.2
105°	1400.5	1419.5	1393.5	1347.5	1309.5	1277.5	1272.5
107.5°	1384.1	1471.7	1507.4	1508.1	1495.3	1484.5	1475.3
110°	1330.5	1456.6	1526.6	1554.5	1562.5	1560.6	1558.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1260.1	1401.3	1491.3	1542.6	1567.4	1574.9	1575.4
115°	1147.4	1294.4	1403.5	1478.5	1522.5	1542.6	1547.6
117.5°	1052.1	1184.2	1294.9	1373.1	1423.5	1452.3	1459.1
120°	999.4	1119.4	1220.5	1299.4	1355.5	1379.5	1385.5
122.5°	956.9	1068.2	1162.0	1232.3	1282.6	1309.1	1316.6
125°	904.3	1000.3	1080.4	1144.4	1188.4	1213.4	1220.5
127.5°	858.1	944.7	1017.5	1074.6	1112.2	1134.8	1141.2
130°	829.3	910.3	978.4	1031.4	1067.4	1088.4	1096.4
132.5°	802.1	877.5	942.4	992.1	1028.1	1046.8	1052.4
135°	763.3	828.3	885.3	934.4	964.3	982.3	989.4
137.5°	725.8	781.9	831.3	872.5	902.9	918.1	922.7
140°	704.2	752.3	795.3	833.3	861.3	877.3	876.3
142.5°	683.5	725.0	762.5	794.9	819.7	834.1	833.1
145°	656.3	688.3	717.2	742.3	763.3	771.3	773.3
147.5°	636.0	661.9	682.4	701.5	715.7	723.2	724.0
150°	623.2	644.2	663.2	678.2	689.2	695.3	695.3
152.5°	611.2	629.8	645.7	657.5	667.6	671.2	671.2
155°	594.2	609.2	621.2	630.3	638.3	640.2	641.2
157.5°	577.6	589.2	598.6	606.4	612.4	614.0	613.8
160°	567.2	577.2	584.2	591.2	597.2	597.2	596.2
162.5°	556.0	565.2	571.4	576.0	581.2	581.2	580.2
165°	540.2	547.2	552.2	556.2	560.2	559.2	559.2
167.5°	528.0	532.0	535.6	537.4	540.2	539.2	539.2
170°	519.2	523.1	525.2	526.2	528.2	527.2	527.2
172.5°	512.0	515.2	516.3	516.6	518.6	516.8	516.0
175°	502.1	504.2	504.2	504.2	505.1	504.2	503.2
177.5°	496.5	497.4	497.4	496.5	497.4	495.8	495.8
180°	494.2	494.2	494.2	494.2	494.2	494.2	494.2

(END OF REPORT)