

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: P332029-830

Luminaire Tested: **S123DIP-S1000D1025U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332029-830
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-S1000D1025U830-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7495.9 lumens
Efficiency: N/A
Efficacy: 123.9 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: General Diffuse

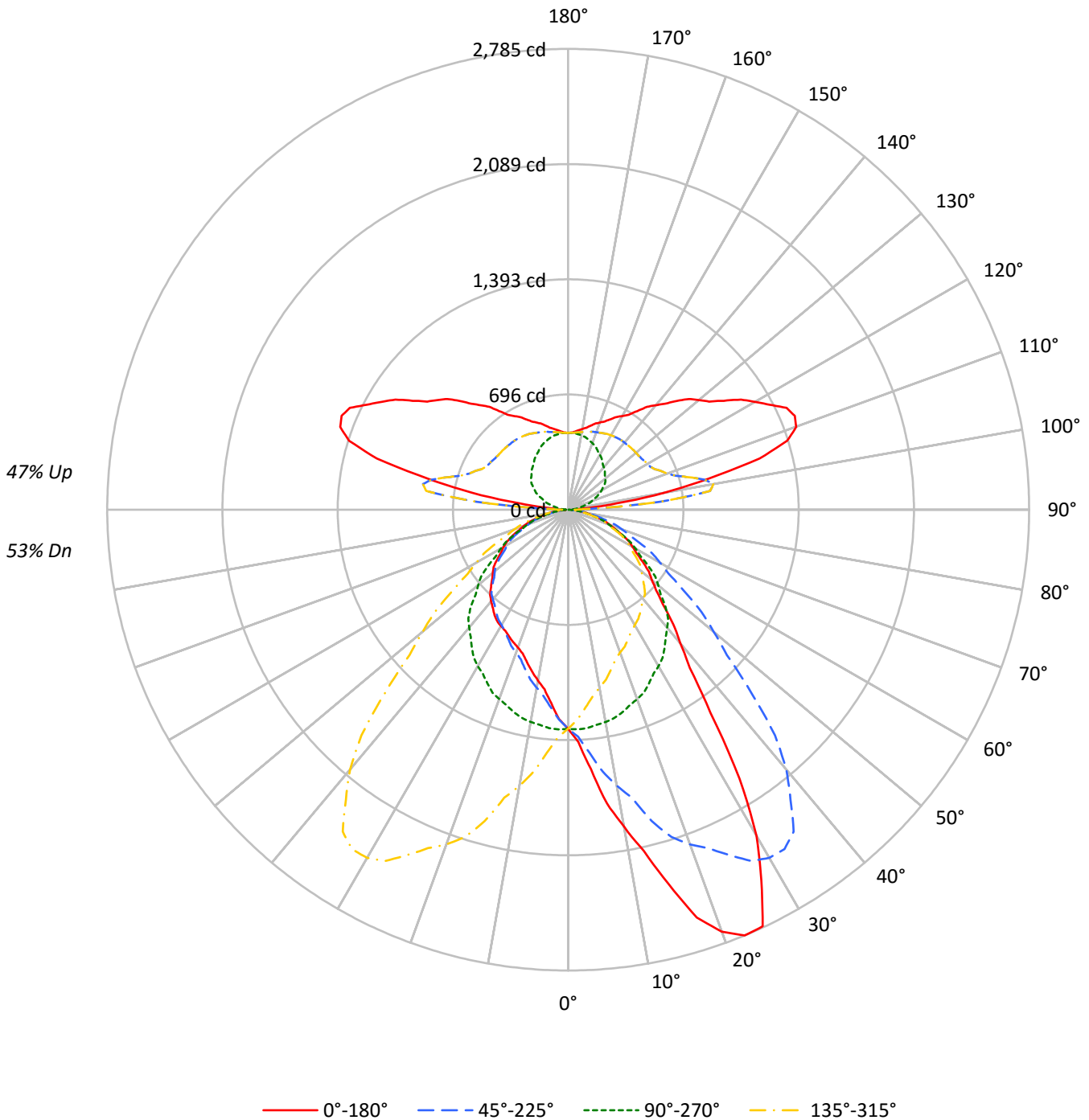
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	85	82	75	73	71	64	62	60	53	52	51	46
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	60	54	48	52	47	43	45	40	37	37	34	32	28
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	28	33	29	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14249	14249	14249	14249
5°	16993	14311	12682	14311
10°	21270	14238	11455	14238
15°	26088	14123	10664	14123
20°	31078	13945	10153	13945
25°	32999	13726	10041	13726
30°	28285	13569	10092	13569
35°	19671	13341	10198	13341
40°	14816	13078	10166	13078
45°	12301	12683	10036	12683
50°	11020	11879	9945	11879
55°	10303	11012	9822	11012
60°	9664	10107	9722	10107
65°	9085	9212	9411	9212
70°	8519	8195	8960	8195
75°	7627	7178	8218	7178
80°	6676	5883	7073	5883
85°	5224	4273	4755	4273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.7
10°-20°	418.2	5.6
20°-30°	701.8	9.4
30°-40°	794.6	10.6
40°-50°	712.6	9.5
50°-60°	575.1	7.7
60°-70°	400.7	5.3
70°-80°	210.6	2.8
80°-90°	55.1	0.7
90°-100°	258.6	3.5
100°-110°	732.4	9.8
110°-120°	720.5	9.6
120°-130°	574.7	7.7
130°-140°	453.1	6.0
140°-150°	338.2	4.5
150°-160°	235.7	3.1
160°-170°	138.5	1.8
170°-180°	45.1	0.6
0°-30°	1250.4	16.7
0°-40°	2045.0	27.3
0°-60°	3332.7	44.5
0°-90°	3999.2	53.4
90°-120°	1711.5	22.8
90°-150°	3077.4	41.1
90°-180°	3497.0	46.7
0°-180°	7495.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1573	1324	1174	1324	1573	163
15°	2341	1267	957	1267	2341	676
25°	2778	1156	845	1156	2778	1219
35°	1497	1015	776	1015	1497	973
45°	808	833	659	833	808	640
55°	549	587	523	587	549	493
65°	357	362	370	362	357	355
75°	183	173	198	173	183	196
85°	42	35	38	35	42	51
90°	27	2	27	2	27	17
95°	109	32	109	32	109	197
105°	1197	109	1197	109	1197	1181
115°	1456	193	1456	193	1456	1414
125°	1148	268	1148	268	1148	1040
135°	930	314	930	314	930	722
145°	727	358	727	358	727	463
155°	603	407	603	407	603	281
165°	526	445	526	445	526	150
175°	473	464	473	464	473	46
180°	465	465	465	465	465	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1404.9	1403.9	1401.3	1403.4	1399.3	1393.6	1393.1	1388.0	1373.1	1372.1	1368.0
5°	1572.7	1567.5	1566.9	1566.3	1557.3	1545.1	1522.0	1520.1	1489.3	1473.9	1455.3
7.5°	1790.0	1792.7	1783.3	1775.1	1747.7	1729.6	1704.8	1673.1	1635.3	1596.9	1571.4
10°	1946.0	1967.2	1940.9	1922.9	1906.2	1874.8	1838.2	1792.7	1747.2	1693.9	1653.5
12.5°	2113.3	2123.6	2118.4	2101.5	2075.6	2027.7	1962.9	1912.8	1870.9	1782.2	1746.3
15°	2341.1	2380.2	2355.2	2297.4	2298.8	2253.2	2168.5	2075.6	2026.2	1948.5	1842.8
17.5°	2583.8	2588.7	2578.0	2529.9	2497.8	2435.2	2357.1	2267.9	2167.9	2074.0	1961.8
20°	2713.1	2709.2	2686.8	2661.7	2606.6	2557.9	2472.6	2373.1	2244.9	2152.5	2030.0
22.5°	2784.9	2778.5	2767.9	2746.9	2701.0	2648.7	2572.1	2463.4	2341.4	2214.1	2072.6
25°	2778.5	2786.8	2788.1	2782.4	2766.4	2734.9	2674.6	2588.0	2466.2	2302.6	2155.1
27.5°	2527.1	2538.9	2573.1	2603.6	2637.5	2672.2	2667.6	2624.6	2534.4	2393.1	2212.8
30°	2275.7	2250.0	2313.5	2393.7	2448.2	2544.4	2598.3	2601.5	2550.8	2429.6	2253.8
32.5°	1926.7	1954.9	1983.0	2081.7	2200.8	2308.9	2416.1	2502.5	2512.3	2431.7	2277.9
35°	1497.0	1532.3	1583.6	1634.9	1763.2	1873.5	2062.1	2226.3	2357.1	2374.5	2280.1
37.5°	1206.4	1223.8	1256.2	1307.7	1391.6	1522.4	1668.3	1875.8	2065.4	2206.4	2212.5
40°	1054.4	1059.6	1096.2	1135.3	1203.2	1311.0	1442.5	1625.9	1852.9	2049.9	2132.0
42.5°	940.6	951.8	967.3	1004.9	1059.0	1140.1	1262.3	1414.0	1622.1	1848.7	2009.3
45°	808.1	821.0	830.6	855.6	894.1	948.6	1034.0	1172.4	1330.9	1565.0	1781.1
47.5°	720.7	721.7	728.9	747.7	773.9	814.8	875.2	964.1	1109.6	1299.5	1521.4
50°	658.1	668.4	670.9	685.6	706.2	736.3	786.4	862.0	981.4	1148.1	1352.1
52.5°	614.0	617.0	624.2	634.9	652.8	676.3	719.6	778.9	872.5	1014.6	1202.2
55°	549.0	549.0	556.1	564.4	574.7	595.9	624.7	668.4	739.5	849.9	1005.0
57.5°	489.0	492.2	497.2	499.7	508.5	522.5	546.6	579.7	632.8	717.7	841.1
60°	448.9	454.8	454.1	459.2	466.9	477.9	498.3	525.3	572.8	640.7	744.7
62.5°	414.1	413.7	413.6	419.7	427.4	437.8	451.2	474.5	514.8	575.0	663.5
65°	356.7	355.3	359.9	363.6	366.3	373.9	384.2	404.7	431.7	476.5	545.2
67.5°	305.6	301.8	304.3	305.6	309.9	315.9	325.6	338.3	359.7	395.8	447.4
70°	270.7	267.5	266.8	268.1	271.9	276.4	283.5	295.7	315.6	344.4	382.3
72.5°	234.8	232.5	232.4	235.3	237.0	240.0	245.0	256.2	271.9	293.6	328.9
75°	183.4	183.4	183.4	184.1	186.0	188.6	192.4	198.2	210.4	225.7	249.5
77.5°	137.5	137.4	136.6	136.5	139.3	140.4	141.4	146.8	153.5	163.9	181.3
80°	107.7	104.5	105.8	107.7	109.1	109.7	111.6	112.9	118.7	124.4	136.6
82.5°	80.0	77.4	77.6	80.6	80.8	81.4	83.4	85.2	87.4	92.7	99.2
85°	42.3	42.3	43.0	43.0	43.6	43.0	44.9	45.5	45.5	48.7	52.6
87.5°	20.8	20.0	20.4	20.6	20.4	20.5	20.8	21.1	21.5	22.1	22.1
90°	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6	22.6	23.6	20.7
92.5°	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2	109.1	144.7	159.2
95°	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7	452.5	557.9	496.7
97.5°	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3	925.0	864.6	633.0
100°	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3	1076.3	891.0	602.1
102.5°	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3	1083.8	842.1	556.9
105°	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0	1026.4	756.4	501.4
107.5°	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0	926.0	680.8	466.1
110°	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2	862.7	637.9	452.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1	807.8	609.3	445.0
115°	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4	741.4	578.6	442.1
117.5°	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3	701.3	560.5	443.8
120°	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8	680.2	552.2	446.9
122.5°	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0	662.9	547.0	452.1
125°	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0	640.7	540.1	460.1
127.5°	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6	621.1	536.7	469.1
130°	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3	610.6	534.4	475.1
132.5°	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5	600.8	533.7	479.7
135°	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0	588.1	532.5	486.4
137.5°	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9	576.9	530.5	490.9
140°	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3	570.1	529.7	493.9
142.5°	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5	564.1	528.2	496.2
145°	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2	556.0	525.9	497.7
147.5°	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5	548.1	522.4	497.7
150°	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5	542.8	519.3	497.7
152.5°	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2	536.9	515.6	495.4
155°	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8	527.8	509.0	492.9
157.5°	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7	517.6	503.1	489.8
160°	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1	510.9	498.6	488.3
162.5°	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1	504.1	494.1	485.3
165°	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4	494.8	487.4	480.8
167.5°	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2	486.1	480.6	476.3
170°	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5	480.8	476.1	473.3
172.5°	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5	475.5	472.3	471.0
175°	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4	469.5	467.6	467.6
177.5°	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3	465.5	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1364.9	1360.7	1356.7	1349.5	1343.3	1334.6	1332.0	1329.0	1319.7	1311.5	1305.3
5°	1448.2	1432.9	1410.4	1389.9	1373.2	1350.8	1337.9	1324.5	1305.2	1287.9	1273.8
7.5°	1535.5	1505.2	1470.4	1432.6	1397.5	1363.6	1336.2	1311.9	1285.0	1259.4	1239.5
10°	1604.8	1561.1	1512.4	1459.8	1414.9	1371.3	1334.7	1302.7	1268.0	1237.8	1212.9
12.5°	1683.8	1619.1	1551.9	1488.0	1434.9	1374.4	1330.1	1289.3	1250.1	1213.8	1185.7
15°	1777.3	1695.2	1615.7	1527.8	1447.0	1371.3	1318.7	1267.4	1221.8	1184.7	1148.8
17.5°	1862.5	1769.4	1664.6	1557.8	1460.3	1370.6	1296.9	1238.9	1181.9	1136.4	1100.6
20°	1910.7	1804.9	1686.2	1575.3	1467.5	1367.4	1286.7	1217.4	1155.7	1107.7	1067.2
22.5°	1952.3	1828.4	1705.7	1587.1	1467.0	1359.2	1267.6	1196.4	1129.6	1082.5	1039.5
25°	1995.4	1847.2	1724.1	1584.9	1450.9	1339.3	1236.6	1155.7	1089.1	1034.0	989.7
27.5°	2032.3	1846.0	1699.8	1550.1	1425.4	1313.5	1204.0	1117.3	1046.5	986.6	941.7
30°	2056.9	1848.5	1674.7	1526.5	1400.8	1285.3	1178.8	1091.7	1017.3	956.3	914.0
32.5°	2072.4	1846.9	1651.6	1493.6	1361.8	1259.7	1151.7	1061.4	985.0	925.0	884.2
35°	2081.3	1835.7	1611.8	1425.8	1298.8	1199.4	1109.0	1015.3	935.2	879.4	833.2
37.5°	2063.3	1811.9	1565.7	1360.4	1221.3	1123.4	1047.4	967.6	890.9	829.4	789.7
40°	2035.1	1796.6	1529.7	1314.2	1168.0	1073.7	1008.9	930.7	855.0	796.6	759.4
42.5°	1981.2	1765.2	1490.3	1262.9	1112.6	1018.2	958.7	893.2	821.6	766.9	729.6
45°	1849.7	1697.1	1431.0	1185.9	1030.7	933.2	880.6	833.2	768.4	715.1	683.1
47.5°	1667.4	1594.6	1345.3	1104.8	945.3	851.5	796.8	758.7	711.3	668.4	637.5
50°	1540.6	1510.5	1287.2	1049.3	888.3	796.6	744.0	709.4	675.4	632.4	604.2
52.5°	1394.4	1413.0	1219.6	991.8	830.4	740.2	690.7	663.2	632.3	597.0	572.4
55°	1188.5	1255.8	1102.6	895.4	744.0	658.1	611.2	586.8	568.9	542.6	521.4
57.5°	995.7	1081.4	976.1	796.0	659.2	585.0	540.2	513.6	502.1	488.3	471.6
60°	881.3	965.9	885.8	729.2	602.3	531.7	491.9	469.5	458.0	448.4	434.2
62.5°	779.2	864.9	797.5	661.6	546.3	480.9	446.3	424.3	415.4	410.4	398.3
65°	638.9	712.6	667.7	556.1	466.3	408.6	377.1	361.7	353.5	351.5	343.7
67.5°	519.9	576.1	543.4	461.3	390.6	340.7	314.1	301.0	294.5	293.9	288.1
70°	442.0	494.6	469.5	395.1	334.1	295.0	271.9	260.4	256.6	255.9	252.7
72.5°	381.4	418.0	398.1	336.1	289.0	253.4	236.6	224.5	220.1	221.0	218.9
75°	282.2	309.8	298.2	255.2	217.4	194.4	180.2	172.6	168.7	170.6	168.1
77.5°	203.0	220.6	210.1	180.4	157.0	140.3	130.0	125.2	121.8	121.6	120.5
80°	153.3	163.5	157.8	139.8	120.6	106.5	98.1	94.9	93.0	92.4	91.7
82.5°	109.1	117.9	111.1	98.8	85.7	77.2	72.5	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.1	43.0	39.1	36.6	34.6	33.4	34.0	32.7
87.5°	22.5	22.5	20.4	18.0	16.6	14.5	14.1	12.7	12.1	12.4	12.4
90°	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9	3.8	5.7	8.5
92.5°	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7	17.3	25.3	32.5
95°	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0	34.8	45.1	61.2
97.5°	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6	55.5	63.6	77.5
100°	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7	70.6	77.2	90.3
102.5°	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4	87.1	92.9	105.4
105°	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1	112.0	117.6	128.9
107.5°	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3	137.1	142.6	153.7
110°	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4	155.2	159.9	170.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0	171.8	176.5	186.8
115°	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8	196.6	202.3	211.7
117.5°	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8	221.1	225.8	234.4
120°	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3	236.1	240.8	250.2
122.5°	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6	250.4	255.1	265.3
125°	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2	270.0	275.7	286.0
127.5°	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8	286.5	293.5	304.1
130°	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5	296.3	304.8	316.1
132.5°	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0	304.6	313.9	327.4
135°	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2	318.0	328.4	342.4
137.5°	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7	330.6	340.7	355.8
140°	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0	339.6	349.0	364.1
142.5°	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9	347.9	358.1	371.6
145°	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4	361.3	369.8	383.9
147.5°	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2	374.8	383.1	395.3
150°	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0	383.9	391.3	403.6
152.5°	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7	392.9	400.4	411.1
155°	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4	407.4	413.0	422.4
157.5°	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1	419.8	424.3	432.6
160°	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1	428.1	431.9	439.3
162.5°	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9	434.9	437.9	443.8
165°	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0	444.0	445.9	450.6
167.5°	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7	451.6	452.5	456.1
170°	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2	455.3	456.3	459.1
172.5°	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2	459.1	459.3	461.4
175°	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8	462.9	461.9	463.8
177.5°	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5	464.8	464.0	464.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332029-830

CATALOG NUMBER: S123DIP-S1000D1025U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1301.7	1298.2	1293.1	1285.3	1279.2	1269.4	1269.4	1271.0	1271.0	1270.5	1269.4
5°	1262.3	1252.6	1241.1	1227.7	1213.5	1199.4	1196.8	1191.8	1187.9	1185.2	1182.0
7.5°	1220.6	1203.5	1186.7	1167.8	1150.7	1136.4	1126.5	1118.3	1113.0	1107.4	1103.3
10°	1192.3	1171.2	1151.3	1131.4	1109.6	1092.3	1081.4	1073.7	1067.9	1062.8	1060.3
12.5°	1159.0	1134.7	1112.9	1093.9	1070.1	1052.3	1041.9	1038.3	1031.5	1020.7	1015.0
15°	1110.2	1087.8	1061.5	1032.6	1021.1	999.3	987.1	981.4	977.5	969.1	966.6
17.5°	1068.6	1039.2	1009.7	988.2	966.7	949.0	942.2	935.0	929.9	923.1	921.1
20°	1035.2	1008.9	981.9	958.8	936.4	917.2	911.4	906.3	901.2	898.0	895.4
22.5°	1001.4	975.1	952.7	931.1	907.2	894.6	888.3	882.7	879.1	876.9	874.3
25°	953.8	930.7	905.7	886.4	867.1	858.8	855.0	851.8	849.2	846.0	845.4
27.5°	911.2	886.0	865.7	847.8	834.0	827.0	823.3	821.7	822.3	823.4	824.2
30°	879.4	856.3	839.6	824.2	811.3	804.9	804.3	804.3	806.9	807.5	808.8
32.5°	850.1	831.1	814.5	799.6	789.9	785.4	787.9	787.9	789.9	791.6	793.9
35°	807.5	790.8	778.0	765.2	756.9	758.7	760.1	761.3	764.5	768.4	771.0
37.5°	766.9	752.3	739.0	729.0	725.2	728.6	731.7	734.4	738.1	741.0	743.7
40°	737.6	726.7	713.9	704.9	706.2	708.1	710.7	713.9	717.1	719.0	721.6
42.5°	710.4	699.0	689.3	681.8	683.6	686.1	687.6	689.3	693.0	696.4	698.0
45°	669.0	660.0	651.0	646.5	647.8	649.1	650.4	652.3	655.5	658.1	658.7
47.5°	622.4	616.1	610.1	605.8	607.8	607.3	609.0	613.0	614.1	615.6	619.2
50°	592.7	586.8	579.9	578.5	578.5	578.5	579.2	584.3	584.3	586.8	589.5
52.5°	559.8	556.1	551.6	549.3	548.3	548.3	550.9	553.6	554.6	558.2	560.7
55°	511.2	507.4	503.5	501.5	500.3	501.5	506.7	507.9	511.2	513.1	515.0
57.5°	460.5	457.6	454.5	453.5	453.2	454.9	457.7	461.6	462.3	468.3	471.2
60°	427.2	422.6	420.1	420.1	418.9	424.6	423.3	429.7	431.0	434.9	439.3
62.5°	392.8	386.7	385.7	385.7	387.6	389.2	391.0	393.8	397.2	402.0	405.5
65°	337.3	334.1	338.7	338.0	336.8	340.5	340.5	343.7	347.6	352.1	359.2
67.5°	284.9	283.2	283.6	283.6	285.6	287.8	289.5	292.4	297.0	301.7	306.3
70°	249.5	251.5	248.3	250.8	252.7	253.4	254.7	258.4	263.6	266.8	271.9
72.5°	215.1	215.0	215.4	216.4	218.3	219.5	220.7	225.2	230.7	233.5	237.6
75°	165.5	164.9	166.7	166.7	169.9	171.3	172.6	174.5	179.6	183.4	186.6
77.5°	120.8	121.6	121.2	123.4	122.5	122.7	126.8	128.7	129.2	136.8	138.5
80°	91.0	92.4	93.0	93.7	94.3	93.0	97.5	99.4	99.4	103.9	107.1
82.5°	65.4	66.2	67.9	68.5	68.6	69.9	70.3	71.7	73.2	75.2	79.4
85°	32.7	34.6	35.3	34.6	35.3	34.0	35.9	36.6	37.2	37.2	37.2
87.5°	12.3	13.2	13.3	14.3	14.4	15.5	15.3	14.4	14.6	16.4	14.7
90°	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6	24.5	25.4	27.2
92.5°	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2	62.9	55.5	50.6
95°	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7	229.6	179.7	145.8
97.5°	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3	676.3	554.9	442.3
100°	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3	1033.0	922.9	789.4
102.5°	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3	1194.9	1130.7	1046.0
105°	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0	1317.2	1335.0	1310.6
107.5°	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0	1301.7	1384.1	1417.7
110°	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2	1251.3	1369.8	1435.7



TEST NUMBER: P332029-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1	1185.1	1317.9	1402.6
115°	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4	1079.1	1217.4	1319.9
117.5°	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3	989.6	1113.7	1217.8
120°	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8	939.9	1052.8	1147.8
122.5°	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0	900.0	1004.7	1092.9
125°	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0	850.6	940.8	1016.1
127.5°	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6	807.0	888.5	957.0
130°	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3	780.0	856.1	920.1
132.5°	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5	754.3	825.3	886.3
135°	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0	717.8	779.0	832.6
137.5°	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9	682.7	735.4	781.8
140°	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3	662.3	707.5	748.0
142.5°	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5	642.8	681.9	717.1
145°	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2	617.2	647.2	674.6
147.5°	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5	598.1	622.5	641.9
150°	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5	586.2	605.9	623.8
152.5°	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2	574.9	592.4	607.2
155°	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8	558.8	573.0	584.3
157.5°	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7	543.2	554.1	563.0
160°	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1	533.5	542.8	549.4
162.5°	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1	522.9	531.6	537.4
165°	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4	508.0	514.6	519.3
167.5°	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2	496.5	500.3	503.7
170°	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5	488.3	492.0	493.9
172.5°	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5	481.5	484.6	485.7
175°	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4	472.3	474.2	474.2
177.5°	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3	467.0	467.8	467.8
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332029-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1265.8	1265.4	1268.9	1266.4	1268.9	1265.4	1265.8	1269.4	1270.5	1271.0	1271.0
5°	1178.3	1180.2	1173.7	1173.7	1173.7	1180.2	1178.3	1182.0	1185.2	1187.9	1191.8
7.5°	1100.2	1097.4	1097.7	1094.2	1097.7	1097.4	1100.2	1103.3	1107.4	1113.0	1118.3
10°	1052.5	1048.7	1047.4	1048.0	1047.4	1048.7	1052.5	1060.3	1062.8	1067.9	1073.7
12.5°	1013.0	1012.3	1003.8	1003.9	1003.8	1012.3	1013.0	1015.0	1020.7	1031.5	1038.3
15°	966.6	954.4	953.1	957.0	953.1	954.4	966.6	966.6	969.1	977.5	981.4
17.5°	920.0	913.6	914.0	912.1	914.0	913.6	920.0	921.1	923.1	929.9	935.0
20°	895.4	891.6	890.9	886.4	890.9	891.6	895.4	895.4	898.0	901.2	906.3
22.5°	872.8	871.6	871.9	867.0	871.9	871.6	872.8	874.3	876.9	879.1	882.7
25°	844.7	847.9	845.4	845.4	845.4	847.9	844.7	845.4	846.0	849.2	851.8
27.5°	825.8	825.6	824.3	824.3	824.3	825.6	825.8	824.2	823.4	822.3	821.7
30°	811.3	810.7	812.0	812.0	812.0	810.7	811.3	808.8	807.5	806.9	804.3
32.5°	797.0	797.9	798.1	798.6	798.1	797.9	797.0	793.9	791.6	789.9	787.9
35°	774.8	775.4	777.4	776.1	777.4	775.4	774.8	771.0	768.4	764.5	761.3
37.5°	744.8	747.7	747.1	748.1	747.1	747.7	744.8	743.7	741.0	738.1	734.4
40°	722.2	724.2	723.5	723.5	723.5	724.2	722.2	721.6	719.0	717.1	713.9
42.5°	699.1	700.5	698.9	697.9	698.9	700.5	699.1	698.0	696.4	693.0	689.3
45°	661.3	660.0	661.9	659.3	661.9	660.0	661.3	658.7	658.1	655.5	652.3
47.5°	619.0	620.2	620.8	622.6	620.8	620.2	619.0	619.2	615.6	614.1	613.0
50°	590.7	594.6	594.6	593.9	594.6	594.6	590.7	589.5	586.8	584.3	584.3
52.5°	563.0	564.8	567.4	567.2	567.4	564.8	563.0	560.7	558.2	554.6	553.6
55°	520.2	521.4	522.7	523.4	522.7	521.4	520.2	515.0	513.1	511.2	507.9
57.5°	475.8	475.2	478.3	479.3	478.3	475.2	475.8	471.2	468.3	462.3	461.6
60°	444.5	444.5	449.6	451.6	449.6	444.5	444.5	439.3	434.9	431.0	429.7
62.5°	411.1	413.2	418.3	415.7	418.3	413.2	411.1	405.5	402.0	397.2	393.8
65°	362.4	367.5	366.8	369.5	366.8	367.5	362.4	359.2	352.1	347.6	343.7
67.5°	311.4	314.6	319.2	319.7	319.2	314.6	311.4	306.3	301.7	297.0	292.4
70°	277.1	280.3	282.9	284.7	282.9	280.3	277.1	271.9	266.8	263.6	258.4
72.5°	243.7	245.4	251.6	248.8	251.6	245.4	243.7	237.6	233.5	230.7	225.2
75°	191.1	195.6	199.4	197.6	199.4	195.6	191.1	186.6	183.4	179.6	174.5
77.5°	141.4	145.8	147.6	146.0	147.6	145.8	141.4	138.5	136.8	129.2	128.7
80°	111.6	110.9	114.8	114.1	114.8	110.9	111.6	107.1	103.9	99.4	99.4
82.5°	81.8	81.2	83.0	83.4	83.0	81.2	81.8	79.4	75.2	73.2	71.7
85°	39.8	41.7	39.1	38.5	39.1	41.7	39.8	37.2	37.2	37.2	36.6
87.5°	14.5	14.7	14.3	13.7	14.3	14.7	14.5	14.7	16.4	14.6	14.4
90°	26.3	27.2	28.2	27.2	28.2	27.2	26.3	27.2	25.4	24.5	23.6
92.5°	48.9	46.1	47.0	45.3	47.0	46.1	48.9	50.6	55.5	62.9	79.2
95°	128.0	119.5	112.9	109.1	112.9	119.5	128.0	145.8	179.7	229.6	338.7
97.5°	373.0	330.6	305.2	297.1	305.2	330.6	373.0	442.3	554.9	676.3	844.3
100°	694.4	625.7	589.0	589.9	589.0	625.7	694.4	789.4	922.9	1033.0	1109.3
102.5°	972.0	917.7	887.0	865.3	887.0	917.7	972.0	1046.0	1130.7	1194.9	1197.3
105°	1267.2	1231.5	1201.5	1196.7	1201.5	1231.5	1267.2	1310.6	1335.0	1317.2	1223.0
107.5°	1418.4	1406.4	1396.2	1387.5	1396.2	1406.4	1418.4	1417.7	1384.1	1301.7	1149.0
110°	1462.1	1469.6	1467.7	1465.8	1467.7	1469.6	1462.1	1435.7	1369.8	1251.3	1078.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1450.8	1474.0	1481.2	1481.6	1481.2	1474.0	1450.8	1402.6	1317.9	1185.1	1008.1
115°	1390.5	1431.9	1450.8	1455.5	1450.8	1431.9	1390.5	1319.9	1217.4	1079.1	915.4
117.5°	1291.4	1338.8	1365.9	1372.2	1365.9	1338.8	1291.4	1217.8	1113.7	989.6	848.3
120°	1222.1	1274.8	1297.4	1303.1	1297.4	1274.8	1222.1	1147.8	1052.8	939.9	812.8
122.5°	1159.0	1206.4	1231.1	1238.3	1231.1	1206.4	1159.0	1092.9	1004.7	900.0	785.0
125°	1076.3	1117.7	1141.2	1147.8	1141.2	1117.7	1076.3	1016.1	940.8	850.6	748.0
127.5°	1010.6	1046.0	1067.2	1073.3	1067.2	1046.0	1010.6	957.0	888.5	807.0	715.6
130°	970.0	1003.9	1023.6	1031.1	1023.6	1003.9	970.0	920.1	856.1	780.0	695.3
132.5°	933.1	967.0	984.5	989.8	984.5	967.0	933.1	886.3	825.3	754.3	676.5
135°	878.7	906.9	923.9	930.5	923.9	906.9	878.7	832.6	779.0	717.8	651.0
137.5°	820.6	849.2	863.5	867.8	863.5	849.2	820.6	781.8	735.4	682.7	627.9
140°	783.7	810.0	825.1	824.2	825.1	810.0	783.7	748.0	707.5	662.3	614.3
142.5°	747.6	770.9	784.5	783.5	784.5	770.9	747.6	717.1	681.9	642.8	601.5
145°	698.0	717.8	725.4	727.3	725.4	717.8	698.0	674.6	647.2	617.2	586.2
147.5°	659.7	673.1	680.2	681.0	680.2	673.1	659.7	641.9	622.5	598.1	573.5
150°	637.9	648.2	653.8	653.8	653.8	648.2	637.9	623.8	605.9	586.2	564.5
152.5°	618.3	627.9	631.3	631.3	631.3	627.9	618.3	607.2	592.4	574.9	556.2
155°	592.8	600.2	602.1	603.0	602.1	600.2	592.8	584.3	573.0	558.8	543.8
157.5°	570.3	576.0	577.5	577.3	577.5	576.0	570.3	563.0	554.1	543.2	530.7
160°	556.0	561.7	561.7	560.7	561.7	561.7	556.0	549.4	542.8	533.5	523.1
162.5°	541.8	546.6	546.6	545.6	546.6	546.6	541.8	537.4	531.6	522.9	514.1
165°	523.1	526.9	525.9	525.9	525.9	526.9	523.1	519.3	514.6	508.0	502.4
167.5°	505.4	508.0	507.1	507.1	507.1	508.0	505.4	503.7	500.3	496.5	492.2
170°	494.8	496.7	495.8	495.8	495.8	496.7	494.8	493.9	492.0	488.3	485.5
172.5°	485.9	487.8	486.1	485.3	486.1	487.8	485.9	485.7	484.6	481.5	479.5
175°	474.2	475.1	474.2	473.3	474.2	475.1	474.2	474.2	474.2	472.3	471.4
177.5°	467.0	467.8	466.3	466.3	466.3	467.8	467.0	467.8	467.8	467.0	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332029-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1269.4	1269.4	1279.2	1285.3	1293.1	1298.2	1301.7	1305.3	1311.5	1319.7	1329.0
5°	1196.8	1199.4	1213.5	1227.7	1241.1	1252.6	1262.3	1273.8	1287.9	1305.2	1324.5
7.5°	1126.5	1136.4	1150.7	1167.8	1186.7	1203.5	1220.6	1239.5	1259.4	1285.0	1311.9
10°	1081.4	1092.3	1109.6	1131.4	1151.3	1171.2	1192.3	1212.9	1237.8	1268.0	1302.7
12.5°	1041.9	1052.3	1070.1	1093.9	1112.9	1134.7	1159.0	1185.7	1213.8	1250.1	1289.3
15°	987.1	999.3	1021.1	1032.6	1061.5	1087.8	1110.2	1148.8	1184.7	1221.8	1267.4
17.5°	942.2	949.0	966.7	988.2	1009.7	1039.2	1068.6	1100.6	1136.4	1181.9	1238.9
20°	911.4	917.2	936.4	958.8	981.9	1008.9	1035.2	1067.2	1107.7	1155.7	1217.4
22.5°	888.3	894.6	907.2	931.1	952.7	975.1	1001.4	1039.5	1082.5	1129.6	1196.4
25°	855.0	858.8	867.1	886.4	905.7	930.7	953.8	989.7	1034.0	1089.1	1155.7
27.5°	823.3	827.0	834.0	847.8	865.7	886.0	911.2	941.7	986.6	1046.5	1117.3
30°	804.3	804.9	811.3	824.2	839.6	856.3	879.4	914.0	956.3	1017.3	1091.7
32.5°	787.9	785.4	789.9	799.6	814.5	831.1	850.1	884.2	925.0	985.0	1061.4
35°	760.1	758.7	756.9	765.2	778.0	790.8	807.5	833.2	879.4	935.2	1015.3
37.5°	731.7	728.6	725.2	729.0	739.0	752.3	766.9	789.7	829.4	890.9	967.6
40°	710.7	708.1	706.2	704.9	713.9	726.7	737.6	759.4	796.6	855.0	930.7
42.5°	687.6	686.1	683.6	681.8	689.3	699.0	710.4	729.6	766.9	821.6	893.2
45°	650.4	649.1	647.8	646.5	651.0	660.0	669.0	683.1	715.1	768.4	833.2
47.5°	609.0	607.3	607.8	605.8	610.1	616.1	622.4	637.5	668.4	711.3	758.7
50°	579.2	578.5	578.5	578.5	579.9	586.8	592.7	604.2	632.4	675.4	709.4
52.5°	550.9	548.3	548.3	549.3	551.6	556.1	559.8	572.4	597.0	632.3	663.2
55°	506.7	501.5	500.3	501.5	503.5	507.4	511.2	521.4	542.6	568.9	586.8
57.5°	457.7	454.9	453.2	453.5	454.5	457.6	460.5	471.6	488.3	502.1	513.6
60°	423.3	424.6	418.9	420.1	420.1	422.6	427.2	434.2	448.4	458.0	469.5
62.5°	391.0	389.2	387.6	385.7	385.7	386.7	392.8	398.3	410.4	415.4	424.3
65°	340.5	340.5	336.8	338.0	338.7	334.1	337.3	343.7	351.5	353.5	361.7
67.5°	289.5	287.8	285.6	283.6	283.6	283.2	284.9	288.1	293.9	294.5	301.0
70°	254.7	253.4	252.7	250.8	248.3	251.5	249.5	252.7	255.9	256.6	260.4
72.5°	220.7	219.5	218.3	216.4	215.4	215.0	215.1	218.9	221.0	220.1	224.5
75°	172.6	171.3	169.9	166.7	166.7	164.9	165.5	168.1	170.6	168.7	172.6
77.5°	126.8	122.7	122.5	123.4	121.2	121.6	120.8	120.5	121.6	121.8	125.2
80°	97.5	93.0	94.3	93.7	93.0	92.4	91.0	91.7	92.4	93.0	94.9
82.5°	70.3	69.9	68.6	68.5	67.9	66.2	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.3	34.6	35.3	34.6	32.7	32.7	34.0	33.4	34.6
87.5°	15.3	15.5	14.4	14.3	13.3	13.2	12.3	12.4	12.4	12.1	12.7
90°	22.6	23.6	20.7	17.9	15.1	12.3	10.4	8.5	5.7	3.8	1.9
92.5°	109.1	144.7	159.2	119.5	79.0	54.4	40.4	32.5	25.3	17.3	11.7
95°	452.5	557.9	496.7	342.4	202.3	122.3	85.6	61.2	45.1	34.8	32.0
97.5°	925.0	864.6	633.0	375.8	217.7	141.3	101.6	77.5	63.6	55.5	54.6
100°	1076.3	891.0	602.1	354.7	215.5	149.6	112.9	90.3	77.2	70.6	69.7
102.5°	1083.8	842.1	556.9	336.6	218.5	159.4	125.7	105.4	92.9	87.1	85.4
105°	1026.4	756.4	501.4	323.7	226.8	176.0	146.8	128.9	117.6	112.0	109.1
107.5°	926.0	680.8	466.1	322.7	242.1	197.6	170.5	153.7	142.6	137.1	134.3
110°	862.7	637.9	452.5	326.5	255.0	212.6	186.2	170.3	159.9	155.2	152.4



TEST NUMBER: P332029-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	807.8	609.3	445.0	334.0	267.8	228.5	202.8	186.8	176.5	171.8	169.0
115°	741.4	578.6	442.1	346.2	288.8	253.1	227.7	211.7	202.3	196.6	192.8
117.5°	701.3	560.5	443.8	362.4	311.2	275.9	252.3	234.4	225.8	221.1	216.8
120°	680.2	552.2	446.9	374.5	325.6	291.6	268.2	250.2	240.8	236.1	233.3
122.5°	662.9	547.0	452.1	385.8	340.5	307.5	282.5	265.3	255.1	250.4	247.6
125°	640.7	540.1	460.1	403.6	362.2	329.3	303.9	286.0	275.7	270.0	268.2
127.5°	621.1	536.7	469.1	418.3	381.1	349.2	323.9	304.1	293.5	286.5	283.8
130°	610.6	534.4	475.1	428.1	392.3	361.3	335.8	316.1	304.8	296.3	293.5
132.5°	600.8	533.7	479.7	437.2	402.1	371.8	347.1	327.4	313.9	304.6	301.0
135°	588.1	532.5	486.4	448.7	416.8	387.6	362.2	342.4	328.4	318.0	314.2
137.5°	576.9	530.5	490.9	457.4	427.0	398.9	375.4	355.8	340.7	330.6	326.7
140°	570.1	529.7	493.9	461.9	433.8	406.4	383.0	364.1	349.0	339.6	335.0
142.5°	564.1	528.2	496.2	466.5	439.0	412.5	390.4	371.6	358.1	347.9	343.9
145°	556.0	525.9	497.7	471.4	445.9	421.5	399.8	383.9	369.8	361.3	358.4
147.5°	548.1	522.4	497.7	474.4	451.6	429.2	410.8	395.3	383.1	374.8	373.2
150°	542.8	519.3	497.7	475.1	455.3	433.8	416.8	403.6	391.3	383.9	383.0
152.5°	536.9	515.6	495.4	476.6	457.6	439.0	422.8	411.1	400.4	392.9	392.7
155°	527.8	509.0	492.9	477.0	461.9	445.9	432.8	422.4	413.0	407.4	407.4
157.5°	517.6	503.1	489.8	478.0	464.4	451.6	441.4	432.6	424.3	419.8	419.1
160°	510.9	498.6	488.3	478.0	466.7	455.3	445.9	439.3	431.9	428.1	428.1
162.5°	504.1	494.1	485.3	477.2	467.4	457.6	449.7	443.8	437.9	434.9	434.9
165°	494.8	487.4	480.8	475.1	468.5	461.0	454.4	450.6	445.9	444.0	445.0
167.5°	486.1	480.6	476.3	473.6	468.3	462.9	458.7	456.1	452.5	451.6	452.7
170°	480.8	476.1	473.3	471.4	467.6	462.9	461.0	459.1	456.3	455.3	457.2
172.5°	475.5	472.3	471.0	470.6	467.6	463.6	462.5	461.4	459.3	459.1	460.2
175°	469.5	467.6	467.6	468.5	466.7	464.8	463.8	463.8	461.9	462.9	463.8
177.5°	465.5	464.8	465.5	467.0	465.5	464.8	464.8	464.8	464.0	464.8	465.5
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



TEST NUMBER: P332029-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1332.0	1334.6	1343.3	1349.5	1356.7	1360.7	1364.9	1368.0	1372.1	1373.1	1388.0
5°	1337.9	1350.8	1373.2	1389.9	1410.4	1432.9	1448.2	1455.3	1473.9	1489.3	1520.1
7.5°	1336.2	1363.6	1397.5	1432.6	1470.4	1505.2	1535.5	1571.4	1596.9	1635.3	1673.1
10°	1334.7	1371.3	1414.9	1459.8	1512.4	1561.1	1604.8	1653.5	1693.9	1747.2	1792.7
12.5°	1330.1	1374.4	1434.9	1488.0	1551.9	1619.1	1683.8	1746.3	1782.2	1870.9	1912.8
15°	1318.7	1371.3	1447.0	1527.8	1615.7	1695.2	1777.3	1842.8	1948.5	2026.2	2075.6
17.5°	1296.9	1370.6	1460.3	1557.8	1664.6	1769.4	1862.5	1961.8	2074.0	2167.9	2267.9
20°	1286.7	1367.4	1467.5	1575.3	1686.2	1804.9	1910.7	2030.0	2152.5	2244.9	2373.1
22.5°	1267.6	1359.2	1467.0	1587.1	1705.7	1828.4	1952.3	2072.6	2214.1	2341.4	2463.4
25°	1236.6	1339.3	1450.9	1584.9	1724.1	1847.2	1995.4	2155.1	2302.6	2466.2	2588.0
27.5°	1204.0	1313.5	1425.4	1550.1	1699.8	1846.0	2032.3	2212.8	2393.1	2534.4	2624.6
30°	1178.8	1285.3	1400.8	1526.5	1674.7	1848.5	2056.9	2253.8	2429.6	2550.8	2601.5
32.5°	1151.7	1259.7	1361.8	1493.6	1651.6	1846.9	2072.4	2277.9	2431.7	2512.3	2502.5
35°	1109.0	1199.4	1298.8	1425.8	1611.8	1835.7	2081.3	2280.1	2374.5	2357.1	2226.3
37.5°	1047.4	1123.4	1221.3	1360.4	1565.7	1811.9	2063.3	2212.5	2206.4	2065.4	1875.8
40°	1008.9	1073.7	1168.0	1314.2	1529.7	1796.6	2035.1	2132.0	2049.9	1852.9	1625.9
42.5°	958.7	1018.2	1112.6	1262.9	1490.3	1765.2	1981.2	2009.3	1848.7	1622.1	1414.0
45°	880.6	933.2	1030.7	1185.9	1431.0	1697.1	1849.7	1781.1	1565.0	1330.9	1172.4
47.5°	796.8	851.5	945.3	1104.8	1345.3	1594.6	1667.4	1521.4	1299.5	1109.6	964.1
50°	744.0	796.6	888.3	1049.3	1287.2	1510.5	1540.6	1352.1	1148.1	981.4	862.0
52.5°	690.7	740.2	830.4	991.8	1219.6	1413.0	1394.4	1202.2	1014.6	872.5	778.9
55°	611.2	658.1	744.0	895.4	1102.6	1255.8	1188.5	1005.0	849.9	739.5	668.4
57.5°	540.2	585.0	659.2	796.0	976.1	1081.4	995.7	841.1	717.7	632.8	579.7
60°	491.9	531.7	602.3	729.2	885.8	965.9	881.3	744.7	640.7	572.8	525.3
62.5°	446.3	480.9	546.3	661.6	797.5	864.9	779.2	663.5	575.0	514.8	474.5
65°	377.1	408.6	466.3	556.1	667.7	712.6	638.9	545.2	476.5	431.7	404.7
67.5°	314.1	340.7	390.6	461.3	543.4	576.1	519.9	447.4	395.8	359.7	338.3
70°	271.9	295.0	334.1	395.1	469.5	494.6	442.0	382.3	344.4	315.6	295.7
72.5°	236.6	253.4	289.0	336.1	398.1	418.0	381.4	328.9	293.6	271.9	256.2
75°	180.2	194.4	217.4	255.2	298.2	309.8	282.2	249.5	225.7	210.4	198.2
77.5°	130.0	140.3	157.0	180.4	210.1	220.6	203.0	181.3	163.9	153.5	146.8
80°	98.1	106.5	120.6	139.8	157.8	163.5	153.3	136.6	124.4	118.7	112.9
82.5°	72.5	77.2	85.7	98.8	111.1	117.9	109.1	99.2	92.7	87.4	85.2
85°	36.6	39.1	43.0	48.1	55.8	58.3	55.1	52.6	48.7	45.5	45.5
87.5°	14.1	14.5	16.6	18.0	20.4	22.5	22.5	22.1	22.1	21.5	21.1
90°	3.8	5.7	8.5	10.4	12.3	15.1	17.9	20.7	23.6	22.6	23.6
92.5°	17.3	25.3	32.5	40.4	54.4	79.0	119.5	159.2	144.7	109.1	79.2
95°	34.8	45.1	61.2	85.6	122.3	202.3	342.4	496.7	557.9	452.5	338.7
97.5°	55.5	63.6	77.5	101.6	141.3	217.7	375.8	633.0	864.6	925.0	844.3
100°	70.6	77.2	90.3	112.9	149.6	215.5	354.7	602.1	891.0	1076.3	1109.3
102.5°	87.1	92.9	105.4	125.7	159.4	218.5	336.6	556.9	842.1	1083.8	1197.3
105°	112.0	117.6	128.9	146.8	176.0	226.8	323.7	501.4	756.4	1026.4	1223.0
107.5°	137.1	142.6	153.7	170.5	197.6	242.1	322.7	466.1	680.8	926.0	1149.0
110°	155.2	159.9	170.3	186.2	212.6	255.0	326.5	452.5	637.9	862.7	1078.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.8	176.5	186.8	202.8	228.5	267.8	334.0	445.0	609.3	807.8	1008.1
115°	196.6	202.3	211.7	227.7	253.1	288.8	346.2	442.1	578.6	741.4	915.4
117.5°	221.1	225.8	234.4	252.3	275.9	311.2	362.4	443.8	560.5	701.3	848.3
120°	236.1	240.8	250.2	268.2	291.6	325.6	374.5	446.9	552.2	680.2	812.8
122.5°	250.4	255.1	265.3	282.5	307.5	340.5	385.8	452.1	547.0	662.9	785.0
125°	270.0	275.7	286.0	303.9	329.3	362.2	403.6	460.1	540.1	640.7	748.0
127.5°	286.5	293.5	304.1	323.9	349.2	381.1	418.3	469.1	536.7	621.1	715.6
130°	296.3	304.8	316.1	335.8	361.3	392.3	428.1	475.1	534.4	610.6	695.3
132.5°	304.6	313.9	327.4	347.1	371.8	402.1	437.2	479.7	533.7	600.8	676.5
135°	318.0	328.4	342.4	362.2	387.6	416.8	448.7	486.4	532.5	588.1	651.0
137.5°	330.6	340.7	355.8	375.4	398.9	427.0	457.4	490.9	530.5	576.9	627.9
140°	339.6	349.0	364.1	383.0	406.4	433.8	461.9	493.9	529.7	570.1	614.3
142.5°	347.9	358.1	371.6	390.4	412.5	439.0	466.5	496.2	528.2	564.1	601.5
145°	361.3	369.8	383.9	399.8	421.5	445.9	471.4	497.7	525.9	556.0	586.2
147.5°	374.8	383.1	395.3	410.8	429.2	451.6	474.4	497.7	522.4	548.1	573.5
150°	383.9	391.3	403.6	416.8	433.8	455.3	475.1	497.7	519.3	542.8	564.5
152.5°	392.9	400.4	411.1	422.8	439.0	457.6	476.6	495.4	515.6	536.9	556.2
155°	407.4	413.0	422.4	432.8	445.9	461.9	477.0	492.9	509.0	527.8	543.8
157.5°	419.8	424.3	432.6	441.4	451.6	464.4	478.0	489.8	503.1	517.6	530.7
160°	428.1	431.9	439.3	445.9	455.3	466.7	478.0	488.3	498.6	510.9	523.1
162.5°	434.9	437.9	443.8	449.7	457.6	467.4	477.2	485.3	494.1	504.1	514.1
165°	444.0	445.9	450.6	454.4	461.0	468.5	475.1	480.8	487.4	494.8	502.4
167.5°	451.6	452.5	456.1	458.7	462.9	468.3	473.6	476.3	480.6	486.1	492.2
170°	455.3	456.3	459.1	461.0	462.9	467.6	471.4	473.3	476.1	480.8	485.5
172.5°	459.1	459.3	461.4	462.5	463.6	467.6	470.6	471.0	472.3	475.5	479.5
175°	462.9	461.9	463.8	463.8	464.8	466.7	468.5	467.6	467.6	469.5	471.4
177.5°	464.8	464.0	464.8	464.8	464.8	465.5	467.0	465.5	464.8	465.5	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8	464.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1393.1	1393.6	1399.3	1403.4	1401.3	1403.9	1404.9
5°	1522.0	1545.1	1557.3	1566.3	1566.9	1567.5	1572.7
7.5°	1704.8	1729.6	1747.7	1775.1	1783.3	1792.7	1790.0
10°	1838.2	1874.8	1906.2	1922.9	1940.9	1967.2	1946.0
12.5°	1962.9	2027.7	2075.6	2101.5	2118.4	2123.6	2113.3
15°	2168.5	2253.2	2298.8	2297.4	2355.2	2380.2	2341.1
17.5°	2357.1	2435.2	2497.8	2529.9	2578.0	2588.7	2583.8
20°	2472.6	2557.9	2606.6	2661.7	2686.8	2709.2	2713.1
22.5°	2572.1	2648.7	2701.0	2746.9	2767.9	2778.5	2784.9
25°	2674.6	2734.9	2766.4	2782.4	2788.1	2786.8	2778.5
27.5°	2667.6	2672.2	2637.5	2603.6	2573.1	2538.9	2527.1
30°	2598.3	2544.4	2448.2	2393.7	2313.5	2250.0	2275.7
32.5°	2416.1	2308.9	2200.8	2081.7	1983.0	1954.9	1926.7
35°	2062.1	1873.5	1763.2	1634.9	1583.6	1532.3	1497.0
37.5°	1668.3	1522.4	1391.6	1307.7	1256.2	1223.8	1206.4
40°	1442.5	1311.0	1203.2	1135.3	1096.2	1059.6	1054.4
42.5°	1262.3	1140.1	1059.0	1004.9	967.3	951.8	940.6
45°	1034.0	948.6	894.1	855.6	830.6	821.0	808.1
47.5°	875.2	814.8	773.9	747.7	728.9	721.7	720.7
50°	786.4	736.3	706.2	685.6	670.9	668.4	658.1
52.5°	719.6	676.3	652.8	634.9	624.2	617.0	614.0
55°	624.7	595.9	574.7	564.4	556.1	549.0	549.0
57.5°	546.6	522.5	508.5	499.7	497.2	492.2	489.0
60°	498.3	477.9	466.9	459.2	454.1	454.8	448.9
62.5°	451.2	437.8	427.4	419.7	413.6	413.7	414.1
65°	384.2	373.9	366.3	363.6	359.9	355.3	356.7
67.5°	325.6	315.9	309.9	305.6	304.3	301.8	305.6
70°	283.5	276.4	271.9	268.1	266.8	267.5	270.7
72.5°	245.0	240.0	237.0	235.3	232.4	232.5	234.8
75°	192.4	188.6	186.0	184.1	183.4	183.4	183.4
77.5°	141.4	140.4	139.3	136.5	136.6	137.4	137.5
80°	111.6	109.7	109.1	107.7	105.8	104.5	107.7
82.5°	83.4	81.4	80.8	80.6	77.6	77.4	80.0
85°	44.9	43.0	43.6	43.0	43.0	42.3	42.3
87.5°	20.8	20.5	20.4	20.6	20.4	20.0	20.8
90°	24.5	25.4	27.2	26.3	27.2	28.2	27.2
92.5°	62.9	55.5	50.6	48.9	46.1	47.0	45.3
95°	229.6	179.7	145.8	128.0	119.5	112.9	109.1
97.5°	676.3	554.9	442.3	373.0	330.6	305.2	297.1
100°	1033.0	922.9	789.4	694.4	625.7	589.0	589.9
102.5°	1194.9	1130.7	1046.0	972.0	917.7	887.0	865.3
105°	1317.2	1335.0	1310.6	1267.2	1231.5	1201.5	1196.7
107.5°	1301.7	1384.1	1417.7	1418.4	1406.4	1396.2	1387.5
110°	1251.3	1369.8	1435.7	1462.1	1469.6	1467.7	1465.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1185.1	1317.9	1402.6	1450.8	1474.0	1481.2	1481.6
115°	1079.1	1217.4	1319.9	1390.5	1431.9	1450.8	1455.5
117.5°	989.6	1113.7	1217.8	1291.4	1338.8	1365.9	1372.2
120°	939.9	1052.8	1147.8	1222.1	1274.8	1297.4	1303.1
122.5°	900.0	1004.7	1092.9	1159.0	1206.4	1231.1	1238.3
125°	850.6	940.8	1016.1	1076.3	1117.7	1141.2	1147.8
127.5°	807.0	888.5	957.0	1010.6	1046.0	1067.2	1073.3
130°	780.0	856.1	920.1	970.0	1003.9	1023.6	1031.1
132.5°	754.3	825.3	886.3	933.1	967.0	984.5	989.8
135°	717.8	779.0	832.6	878.7	906.9	923.9	930.5
137.5°	682.7	735.4	781.8	820.6	849.2	863.5	867.8
140°	662.3	707.5	748.0	783.7	810.0	825.1	824.2
142.5°	642.8	681.9	717.1	747.6	770.9	784.5	783.5
145°	617.2	647.2	674.6	698.0	717.8	725.4	727.3
147.5°	598.1	622.5	641.9	659.7	673.1	680.2	681.0
150°	586.2	605.9	623.8	637.9	648.2	653.8	653.8
152.5°	574.9	592.4	607.2	618.3	627.9	631.3	631.3
155°	558.8	573.0	584.3	592.8	600.2	602.1	603.0
157.5°	543.2	554.1	563.0	570.3	576.0	577.5	577.3
160°	533.5	542.8	549.4	556.0	561.7	561.7	560.7
162.5°	522.9	531.6	537.4	541.8	546.6	546.6	545.6
165°	508.0	514.6	519.3	523.1	526.9	525.9	525.9
167.5°	496.5	500.3	503.7	505.4	508.0	507.1	507.1
170°	488.3	492.0	493.9	494.8	496.7	495.8	495.8
172.5°	481.5	484.6	485.7	485.9	487.8	486.1	485.3
175°	472.3	474.2	474.2	474.2	475.1	474.2	473.3
177.5°	467.0	467.8	467.8	467.0	467.8	466.3	466.3
180°	464.8	464.8	464.8	464.8	464.8	464.8	464.8

(END OF REPORT)