

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: P332083-930

Luminaire Tested: **S123DIP-S1165D1195U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332083-930
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-S1165D1195U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

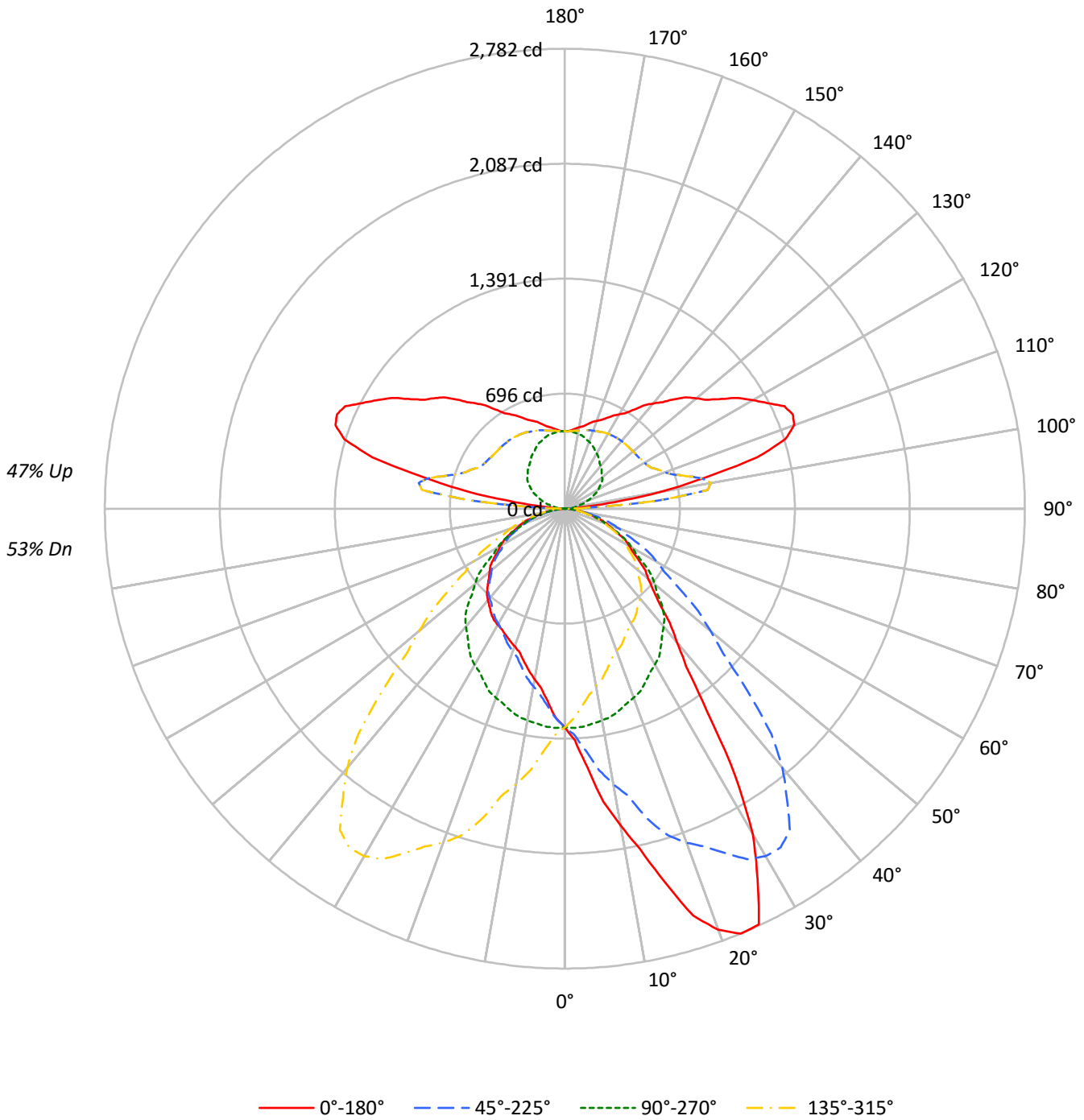
Lumens per Lamp: N/A
Luminaire Lumens: 7515.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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	84	82	75	73	71	63	62	60	53	51	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	38
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	44	40	37	37	34	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28	25
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	31	27	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14235	14235	14235	14235
5°	16977	14296	12670	14296
10°	21249	14224	11444	14224
15°	26063	14110	10653	14110
20°	31047	13931	10143	13931
25°	32967	13713	10030	13713
30°	28256	13554	10082	13554
35°	19651	13328	10188	13328
40°	14802	13065	10156	13065
45°	12291	12670	10027	12670
50°	11010	11868	9937	11868
55°	10293	11003	9813	11003
60°	9655	10097	9711	10097
65°	9075	9205	9401	9205
70°	8510	8189	8954	8189
75°	7623	7170	8210	7170
80°	6670	5876	7073	5876
85°	5224	4273	4755	4273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.7
10°-20°	417.7	5.6
20°-30°	701.1	9.3
30°-40°	793.9	10.6
40°-50°	711.9	9.5
50°-60°	574.5	7.6
60°-70°	400.3	5.3
70°-80°	210.4	2.8
80°-90°	55.1	0.7
90°-100°	260.4	3.5
100°-110°	737.4	9.8
110°-120°	725.4	9.7
120°-130°	578.6	7.7
130°-140°	456.2	6.1
140°-150°	340.5	4.5
150°-160°	237.3	3.2
160°-170°	139.4	1.9
170°-180°	45.4	0.6
0°-30°	1249.1	16.6
0°-40°	2043.0	27.2
0°-60°	3329.4	44.3
0°-90°	3995.3	53.2
90°-120°	1723.2	22.9
90°-150°	3098.5	41.2
90°-180°	3521.0	46.8
0°-180°	7515.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1571	1323	1173	1323	1571	163
15°	2339	1266	956	1266	2339	675
25°	2776	1155	844	1155	2776	1217
35°	1496	1014	775	1014	1496	972
45°	807	832	659	832	807	639
55°	548	586	523	586	548	492
65°	356	361	369	361	356	355
75°	183	172	197	172	183	196
85°	42	35	38	35	42	51
90°	28	2	28	2	28	17
95°	110	32	110	32	110	198
105°	1205	110	1205	110	1205	1189
115°	1465	194	1465	194	1465	1424
125°	1156	270	1156	270	1156	1047
135°	937	316	937	316	937	727
145°	732	361	732	361	732	466
155°	607	410	607	410	607	283
165°	530	448	530	448	530	151
175°	476	467	476	467	476	46
180°	468	468	468	468	468	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1403.5	1402.5	1400.0	1402.0	1397.9	1392.2	1391.7	1386.6	1371.7	1370.7	1366.6
5°	1571.2	1566.0	1565.4	1564.7	1555.8	1543.6	1520.5	1518.6	1487.8	1472.4	1453.9
7.5°	1788.2	1790.9	1781.6	1773.4	1746.0	1727.9	1703.2	1671.5	1633.7	1595.4	1569.9
10°	1944.1	1965.2	1938.9	1921.0	1904.4	1872.9	1836.5	1790.9	1745.4	1692.2	1651.9
12.5°	2111.2	2121.6	2116.3	2099.4	2073.5	2025.7	1961.0	1910.9	1869.0	1780.5	1744.7
15°	2338.8	2377.9	2352.9	2295.2	2296.5	2251.0	2166.4	2073.5	2024.1	1946.6	1840.9
17.5°	2581.2	2586.1	2575.4	2527.4	2495.4	2432.9	2354.8	2265.7	2165.8	2072.0	1959.8
20°	2710.4	2706.5	2684.1	2659.2	2604.1	2555.4	2470.1	2370.8	2242.6	2150.4	2028.0
22.5°	2782.2	2775.8	2765.2	2744.2	2698.4	2646.1	2569.6	2461.1	2339.0	2211.9	2070.5
25°	2775.8	2784.1	2785.4	2779.6	2763.6	2732.2	2672.0	2585.5	2463.8	2300.4	2153.0
27.5°	2524.6	2536.4	2570.6	2601.0	2635.0	2669.5	2664.9	2622.0	2531.9	2390.8	2210.6
30°	2273.4	2247.8	2311.2	2391.4	2445.8	2541.9	2595.7	2598.9	2548.3	2427.2	2251.6
32.5°	1924.8	1953.0	1981.1	2079.7	2198.7	2306.6	2413.8	2500.0	2509.9	2429.3	2275.7
35°	1495.5	1530.8	1582.0	1633.3	1761.5	1871.7	2060.0	2224.1	2354.8	2372.1	2277.9
37.5°	1205.2	1222.5	1255.0	1306.4	1390.2	1520.9	1666.6	1874.0	2063.4	2204.2	2210.4
40°	1053.4	1058.5	1095.0	1134.2	1202.1	1309.7	1441.0	1624.3	1851.1	2047.9	2129.9
42.5°	939.6	950.9	966.4	1004.0	1058.0	1139.1	1261.2	1412.6	1620.5	1846.9	2007.3
45°	807.4	820.2	829.8	854.8	893.2	947.7	1032.9	1171.3	1329.6	1563.4	1779.4
47.5°	720.0	721.0	728.1	747.0	773.1	814.0	874.2	963.2	1108.5	1298.2	1519.9
50°	657.5	667.6	670.3	684.9	705.5	735.6	785.5	861.2	980.4	1147.0	1350.7
52.5°	613.3	616.4	623.6	634.2	652.2	675.6	718.9	778.1	871.7	1013.7	1201.0
55°	548.5	548.5	555.5	563.9	574.1	595.3	624.1	667.6	738.8	849.0	1004.0
57.5°	488.5	491.7	496.7	499.3	508.0	522.0	546.1	579.1	632.2	717.0	840.3
60°	448.5	454.3	453.6	458.8	466.5	477.4	497.9	524.8	572.2	640.1	744.0
62.5°	413.7	413.3	413.2	419.3	427.0	437.4	450.7	474.0	514.3	574.5	662.9
65°	356.3	355.0	359.5	363.3	365.9	373.6	383.8	404.3	431.2	476.1	544.6
67.5°	305.2	301.6	303.9	305.2	309.7	315.6	325.2	337.9	359.3	395.3	447.0
70°	270.4	267.2	266.5	267.8	271.7	276.1	283.2	295.4	315.3	344.1	381.9
72.5°	234.5	232.4	232.2	235.1	236.8	239.8	244.8	255.9	271.7	293.3	328.6
75°	183.3	183.3	183.3	183.9	185.8	188.4	192.2	198.0	210.2	225.5	249.2
77.5°	137.4	137.2	136.5	136.3	139.2	140.3	141.2	146.6	153.4	163.8	181.1
80°	107.6	104.4	105.7	107.6	108.9	109.6	111.5	112.8	118.5	124.3	136.5
82.5°	80.0	77.3	77.5	80.5	80.7	81.4	83.3	85.1	87.2	92.5	99.1
85°	42.3	42.3	43.0	43.0	43.5	43.0	44.8	45.5	45.5	48.7	52.5
87.5°	20.9	20.1	20.4	20.7	20.4	20.5	20.8	21.1	21.4	22.2	22.1
90°	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6	22.7	23.6	20.9
92.5°	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7	109.9	145.7	160.3
95°	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0	455.6	561.7	500.2
97.5°	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0	931.3	870.5	637.3
100°	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8	1083.7	897.1	606.3
102.5°	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5	1091.2	847.8	560.8
105°	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4	1033.5	761.6	504.9
107.5°	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7	932.3	685.4	469.3
110°	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6	868.6	642.2	455.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0	813.3	613.4	448.1
115°	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7	746.4	582.5	445.2
117.5°	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0	706.0	564.4	446.9
120°	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4	684.9	556.0	450.0
122.5°	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4	667.4	550.7	455.3
125°	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1	645.1	543.7	463.2
127.5°	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5	625.4	540.3	472.3
130°	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0	614.7	538.0	478.3
132.5°	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1	605.0	537.3	482.9
135°	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5	592.1	536.1	489.8
137.5°	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2	580.8	534.0	494.3
140°	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6	574.1	533.3	497.3
142.5°	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7	567.9	531.8	499.6
145°	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1	559.9	529.5	501.1
147.5°	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5	551.9	525.9	501.1
150°	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3	546.6	522.9	501.1
152.5°	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0	540.5	519.1	498.8
155°	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5	531.4	512.5	496.4
157.5°	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3	521.1	506.6	493.2
160°	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7	514.4	502.1	491.6
162.5°	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6	507.5	497.5	488.6
165°	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8	498.2	490.6	484.0
167.5°	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6	489.3	483.9	479.5
170°	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8	484.0	479.3	476.5
172.5°	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7	478.7	475.5	474.2
175°	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6	472.7	470.8	470.8
177.5°	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4	468.7	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1363.5	1359.4	1355.4	1348.2	1342.0	1333.3	1330.7	1327.6	1318.4	1310.3	1304.1
5°	1446.8	1431.4	1409.0	1388.5	1371.9	1349.5	1336.6	1323.1	1303.9	1286.6	1272.5
7.5°	1534.0	1503.7	1468.8	1431.2	1396.1	1362.3	1335.0	1310.6	1283.7	1258.2	1238.4
10°	1603.2	1559.6	1510.9	1458.4	1413.5	1369.9	1333.4	1301.4	1266.8	1236.6	1211.7
12.5°	1682.1	1617.6	1550.4	1486.5	1433.5	1373.0	1328.8	1288.1	1248.9	1212.6	1184.5
15°	1775.6	1693.5	1614.0	1526.3	1445.5	1369.9	1317.4	1266.2	1220.7	1183.5	1147.6
17.5°	1860.7	1767.7	1663.0	1556.2	1458.9	1369.2	1295.6	1237.7	1180.8	1135.3	1099.5
20°	1908.9	1803.1	1684.6	1573.7	1466.1	1366.1	1285.4	1216.2	1154.6	1106.6	1066.2
22.5°	1950.4	1826.7	1704.1	1585.5	1465.6	1357.9	1266.4	1195.1	1128.5	1081.5	1038.5
25°	1993.4	1845.4	1722.4	1583.3	1449.4	1337.9	1235.4	1154.6	1088.0	1032.9	988.7
27.5°	2030.3	1844.1	1698.1	1548.6	1424.0	1312.3	1202.8	1116.2	1045.5	985.6	940.8
30°	2054.9	1846.7	1673.0	1525.0	1399.5	1284.1	1177.7	1090.5	1016.3	955.4	913.1
32.5°	2070.3	1845.1	1649.9	1492.2	1360.5	1258.4	1150.6	1060.3	984.0	924.1	883.4
35°	2079.3	1833.9	1610.2	1424.4	1297.5	1198.2	1107.9	1014.3	934.3	878.5	832.3
37.5°	2061.3	1810.1	1564.1	1359.0	1220.2	1122.3	1046.4	966.6	890.0	828.7	788.9
40°	2033.1	1794.8	1528.2	1313.0	1166.9	1072.6	1008.0	929.8	854.1	795.8	758.6
42.5°	1979.3	1763.5	1488.7	1261.7	1111.5	1017.2	957.7	892.3	820.8	766.1	729.0
45°	1848.0	1695.4	1429.5	1184.8	1029.7	932.3	879.8	832.3	767.6	714.4	682.4
47.5°	1665.7	1593.1	1343.9	1103.7	944.4	850.7	796.1	757.9	710.6	667.6	636.9
50°	1539.1	1509.0	1286.0	1048.3	887.5	795.8	743.3	708.7	674.7	631.8	603.6
52.5°	1393.0	1411.6	1218.4	990.8	829.6	739.5	690.0	662.5	631.7	596.4	571.9
55°	1187.3	1254.6	1101.5	894.5	743.3	657.5	610.7	586.3	568.3	542.1	521.0
57.5°	994.7	1080.4	975.1	795.2	658.6	584.5	539.6	513.1	501.6	487.9	471.2
60°	880.4	965.0	884.9	728.6	601.7	531.2	491.5	469.0	457.5	447.9	433.8
62.5°	778.4	864.0	796.7	660.9	545.8	480.5	445.8	424.0	415.0	409.9	397.9
65°	638.2	711.9	667.0	555.5	465.9	408.1	376.7	361.4	353.0	351.1	343.5
67.5°	519.4	575.5	542.8	460.8	390.2	340.4	313.7	300.7	294.2	293.6	287.8
70°	441.5	494.0	469.0	394.7	333.9	294.7	271.7	260.2	256.3	255.7	252.5
72.5°	381.0	417.7	397.8	335.7	288.7	253.2	236.3	224.3	219.9	220.8	218.7
75°	281.9	309.5	298.0	255.0	217.2	194.1	180.0	172.4	168.5	170.5	167.9
77.5°	202.8	220.3	209.9	180.2	156.9	140.2	129.8	125.1	121.6	121.5	120.3
80°	153.1	163.4	157.6	139.7	120.5	106.4	98.0	94.8	92.9	92.3	91.6
82.5°	109.1	117.8	111.0	98.7	85.6	77.1	72.4	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.0	43.0	39.1	36.5	34.6	33.3	34.0	32.7
87.5°	22.6	22.5	20.4	17.9	16.6	14.4	14.1	12.7	12.1	12.4	12.5
90°	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9	3.8	5.7	8.6
92.5°	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7	17.4	25.4	32.8
95°	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2	35.1	45.5	61.6
97.5°	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0	55.8	64.0	78.0
100°	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1	71.0	77.7	90.9
102.5°	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0	87.7	93.6	106.1
105°	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9	112.8	118.4	129.8
107.5°	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3	138.1	143.6	154.7
110°	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4	156.3	161.0	171.5



TEST NUMBER: P332083-930

CATALOG NUMBER: S123DIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2	173.0	177.7	188.1
115°	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2	198.0	203.7	213.1
117.5°	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3	222.6	227.3	236.0
120°	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9	237.7	242.5	252.0
122.5°	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3	252.2	256.9	267.1
125°	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9	271.9	277.5	288.0
127.5°	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7	288.5	295.5	306.1
130°	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5	298.4	306.9	318.3
132.5°	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1	306.7	316.0	329.6
135°	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4	320.2	330.6	344.8
137.5°	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9	332.9	343.1	358.2
140°	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2	341.9	351.4	366.6
142.5°	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3	350.3	360.5	374.1
145°	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9	363.7	372.3	386.5
147.5°	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7	377.4	385.7	398.0
150°	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6	386.5	394.0	406.3
152.5°	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4	395.6	403.2	413.9
155°	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2	410.2	415.9	425.3
157.5°	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9	422.7	427.2	435.5
160°	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0	431.0	434.8	442.4
162.5°	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8	437.8	440.8	446.9
165°	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1	447.1	449.0	453.7
167.5°	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8	454.7	455.6	459.3
170°	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4	458.4	459.4	462.3
172.5°	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4	462.3	462.4	464.6
175°	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0	466.0	465.1	467.0
177.5°	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7	468.0	467.2	468.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332083-930
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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1300.5	1296.9	1291.8	1284.1	1277.9	1268.2	1268.2	1269.7	1269.7	1269.3	1268.2
5°	1261.0	1251.4	1239.9	1226.5	1212.4	1198.2	1195.6	1190.5	1186.7	1184.1	1181.0
7.5°	1219.4	1202.3	1185.5	1166.7	1149.5	1135.3	1125.4	1117.2	1112.0	1106.4	1102.2
10°	1191.2	1170.0	1150.1	1130.3	1108.5	1091.2	1080.4	1072.6	1066.9	1061.8	1059.2
12.5°	1157.9	1133.7	1111.7	1092.9	1069.0	1051.2	1040.9	1037.2	1030.5	1019.7	1014.1
15°	1109.1	1086.7	1060.5	1031.6	1020.1	998.3	986.1	980.4	976.5	968.2	965.6
17.5°	1067.5	1038.1	1008.7	987.2	965.7	948.0	941.3	934.1	929.0	922.2	920.1
20°	1034.2	1008.0	981.0	958.0	935.5	916.3	910.5	905.4	900.3	897.1	894.5
22.5°	1000.4	974.1	951.8	930.3	906.3	893.7	887.5	881.8	878.2	876.0	873.5
25°	952.8	929.8	904.7	885.5	866.3	857.9	854.1	850.9	848.4	845.1	844.5
27.5°	910.3	885.2	864.9	846.9	833.2	826.2	822.5	820.9	821.5	822.6	823.4
30°	878.5	855.4	838.8	823.4	810.6	804.1	803.5	803.5	806.1	806.7	808.0
32.5°	849.3	830.3	813.7	798.7	789.0	784.6	787.1	787.1	789.1	790.8	793.1
35°	806.7	790.0	777.2	764.4	756.1	758.0	759.3	760.6	763.8	767.6	770.2
37.5°	766.1	751.6	738.3	728.3	724.5	727.9	731.0	733.7	737.4	740.4	742.9
40°	736.9	725.9	713.1	704.2	705.5	707.4	710.0	713.1	716.4	718.3	720.9
42.5°	709.7	698.3	688.6	681.1	682.9	685.3	686.9	688.6	692.3	695.8	697.2
45°	668.3	659.3	650.4	645.9	647.2	648.5	649.7	651.7	654.8	657.5	658.0
47.5°	621.8	615.6	609.5	605.1	607.2	606.7	608.4	612.5	613.4	615.0	618.6
50°	592.1	586.3	579.3	578.0	578.0	578.0	578.6	583.8	583.8	586.3	588.9
52.5°	559.3	555.5	551.1	548.8	547.7	547.7	550.4	553.0	554.0	557.6	560.2
55°	510.7	506.9	503.0	501.1	499.8	501.1	506.2	507.4	510.7	512.6	514.5
57.5°	460.1	457.1	454.0	453.0	452.7	454.4	457.2	461.1	461.9	467.7	470.7
60°	426.7	422.2	419.7	419.7	418.4	424.2	422.9	429.3	430.6	434.5	439.0
62.5°	392.4	386.4	385.4	385.4	387.2	388.8	390.6	393.5	396.7	401.6	405.1
65°	337.0	333.9	338.3	337.7	336.4	340.2	340.2	343.5	347.3	351.8	358.8
67.5°	284.6	283.0	283.3	283.3	285.3	287.5	289.3	292.0	296.7	301.4	306.1
70°	249.2	251.2	248.0	250.5	252.5	253.1	254.4	258.2	263.3	266.5	271.7
72.5°	214.9	214.7	215.2	216.2	218.1	219.2	220.5	224.9	230.6	233.3	237.3
75°	165.3	164.7	166.6	166.6	169.8	171.0	172.4	174.3	179.4	183.3	186.5
77.5°	120.7	121.5	121.1	123.3	122.4	122.6	126.6	128.6	129.1	136.6	138.3
80°	91.0	92.3	92.9	93.5	94.2	92.9	97.4	99.3	99.3	103.8	107.0
82.5°	65.4	66.1	67.8	68.4	68.6	69.9	70.2	71.7	73.2	75.1	79.3
85°	32.7	34.6	35.2	34.6	35.2	34.0	35.9	36.5	37.2	37.2	37.2
87.5°	12.3	13.2	13.3	14.3	14.4	15.5	15.3	14.5	14.7	16.4	14.8
90°	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6	24.6	25.6	27.5
92.5°	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7	63.3	55.8	51.0
95°	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0	231.1	180.9	146.8
97.5°	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0	680.9	558.7	445.4
100°	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8	1040.1	929.3	794.8
102.5°	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5	1203.0	1138.4	1053.1
105°	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4	1326.2	1344.2	1319.6
107.5°	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7	1310.6	1393.6	1427.3
110°	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6	1259.9	1379.2	1445.5



TEST NUMBER: P332083-930

CATALOG NUMBER: S123DIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0	1193.2	1326.9	1412.2
115°	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7	1086.5	1225.7	1329.0
117.5°	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0	996.3	1121.4	1226.1
120°	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4	946.3	1060.0	1155.7
122.5°	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4	906.1	1011.5	1100.3
125°	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1	856.3	947.2	1023.0
127.5°	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5	812.5	894.5	963.5
130°	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0	785.3	862.0	926.4
132.5°	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1	759.5	831.0	892.3
135°	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5	722.8	784.3	838.3
137.5°	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2	687.3	740.4	787.2
140°	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6	666.8	712.3	753.1
142.5°	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7	647.2	686.6	722.0
145°	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1	621.4	651.8	679.1
147.5°	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5	602.3	626.7	646.2
150°	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3	590.1	610.0	628.0
152.5°	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0	578.8	596.4	611.4
155°	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5	562.6	576.9	588.2
157.5°	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3	547.0	557.9	566.8
160°	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7	537.1	546.6	553.2
162.5°	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6	526.5	535.2	541.0
165°	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8	511.5	518.1	522.9
167.5°	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6	499.9	503.8	507.2
170°	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8	491.6	495.4	497.3
172.5°	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7	484.8	487.9	488.9
175°	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6	475.5	477.4	477.4
177.5°	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4	470.2	471.0	471.0
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332083-930
 CATALOG NUMBER: S123DIP-S1165D1195U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1264.6	1264.1	1267.7	1265.1	1267.7	1264.1	1264.6	1268.2	1269.3	1269.7	1269.7
5°	1177.0	1179.0	1172.6	1172.6	1172.6	1179.0	1177.0	1181.0	1184.1	1186.7	1190.5
7.5°	1099.2	1096.3	1096.6	1093.2	1096.6	1096.3	1099.2	1102.2	1106.4	1112.0	1117.2
10°	1051.5	1047.7	1046.4	1047.0	1046.4	1047.7	1051.5	1059.2	1061.8	1066.9	1072.6
12.5°	1012.0	1011.2	1002.8	1002.9	1002.8	1011.2	1012.0	1014.1	1019.7	1030.5	1037.2
15°	965.6	953.5	952.2	956.0	952.2	953.5	965.6	965.6	968.2	976.5	980.4
17.5°	919.1	912.7	913.1	911.2	913.1	912.7	919.1	920.1	922.2	929.0	934.1
20°	894.5	890.6	890.0	885.5	890.0	890.6	894.5	894.5	897.1	900.3	905.4
22.5°	872.0	870.7	871.1	866.1	871.1	870.7	872.0	873.5	876.0	878.2	881.8
25°	843.9	847.1	844.5	844.5	844.5	847.1	843.9	844.5	845.1	848.4	850.9
27.5°	824.9	824.8	823.5	823.5	823.5	824.8	824.9	823.4	822.6	821.5	820.9
30°	810.6	809.9	811.2	811.2	811.2	809.9	810.6	808.0	806.7	806.1	803.5
32.5°	796.2	797.1	797.4	797.9	797.4	797.1	796.2	793.1	790.8	789.1	787.1
35°	774.0	774.7	776.6	775.3	776.6	774.7	774.0	770.2	767.6	763.8	760.6
37.5°	744.0	747.0	746.3	747.4	746.3	747.0	744.0	742.9	740.4	737.4	733.7
40°	721.5	723.4	722.8	722.8	722.8	723.4	721.5	720.9	718.3	716.4	713.1
42.5°	698.5	699.9	698.1	697.2	698.1	699.9	698.5	697.2	695.8	692.3	688.6
45°	660.6	659.3	661.3	658.7	661.3	659.3	660.6	658.0	657.5	654.8	651.7
47.5°	618.3	619.6	620.1	622.1	620.1	619.6	618.3	618.6	615.0	613.4	612.5
50°	590.1	593.9	593.9	593.4	593.9	593.9	590.1	588.9	586.3	583.8	583.8
52.5°	562.5	564.3	566.8	566.7	566.8	564.3	562.5	560.2	557.6	554.0	553.0
55°	519.7	521.0	522.2	522.9	522.2	521.0	519.7	514.5	512.6	510.7	507.4
57.5°	475.3	474.8	477.8	478.7	477.8	474.8	475.3	470.7	467.7	461.9	461.1
60°	444.0	444.0	449.1	451.1	449.1	444.0	444.0	439.0	434.5	430.6	429.3
62.5°	410.7	412.8	417.9	415.2	417.9	412.8	410.7	405.1	401.6	396.7	393.5
65°	362.0	367.1	366.5	369.1	366.5	367.1	362.0	358.8	351.8	347.3	343.5
67.5°	311.1	314.4	318.9	319.4	318.9	314.4	311.1	306.1	301.4	296.7	292.0
70°	276.8	280.0	282.6	284.5	282.6	280.0	276.8	271.7	266.5	263.3	258.2
72.5°	243.5	245.2	251.3	248.6	251.3	245.2	243.5	237.3	233.3	230.6	224.9
75°	190.9	195.4	199.3	197.4	199.3	195.4	190.9	186.5	183.3	179.4	174.3
77.5°	141.2	145.7	147.5	145.9	147.5	145.7	141.2	138.3	136.6	129.1	128.6
80°	111.5	110.9	114.7	114.1	114.7	110.9	111.5	107.0	103.8	99.3	99.3
82.5°	81.8	81.1	82.9	83.3	82.9	81.1	81.8	79.3	75.1	73.2	71.7
85°	39.7	41.7	39.1	38.5	39.1	41.7	39.7	37.2	37.2	37.2	36.5
87.5°	14.5	14.8	14.4	13.7	14.4	14.8	14.5	14.8	16.4	14.7	14.5
90°	26.5	27.5	28.5	27.5	28.5	27.5	26.5	27.5	25.6	24.6	23.6
92.5°	49.2	46.4	47.4	45.7	47.4	46.4	49.2	51.0	55.8	63.3	79.7
95°	128.8	120.3	113.7	109.9	113.7	120.3	128.8	146.8	180.9	231.1	341.0
97.5°	375.5	332.9	307.3	299.1	307.3	332.9	375.5	445.4	558.7	680.9	850.0
100°	699.0	629.9	593.0	593.9	593.0	629.9	699.0	794.8	929.3	1040.1	1116.8
102.5°	978.7	924.0	893.1	871.3	893.1	924.0	978.7	1053.1	1138.4	1203.0	1205.5
105°	1275.9	1240.0	1209.7	1204.9	1209.7	1240.0	1275.9	1319.6	1344.2	1326.2	1231.4
107.5°	1428.1	1415.9	1405.7	1397.0	1405.7	1415.9	1428.1	1427.3	1393.6	1310.6	1156.7
110°	1472.0	1479.6	1477.7	1475.9	1477.7	1479.6	1472.0	1445.5	1379.2	1259.9	1085.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1460.7	1484.2	1491.3	1491.8	1491.3	1484.2	1460.7	1412.2	1326.9	1193.2	1015.0
115°	1400.0	1441.7	1460.7	1465.4	1460.7	1441.7	1400.0	1329.0	1225.7	1086.5	921.7
117.5°	1300.2	1347.9	1375.2	1381.7	1375.2	1347.9	1300.2	1226.1	1121.4	996.3	854.0
120°	1230.4	1283.5	1306.3	1312.0	1306.3	1283.5	1230.4	1155.7	1060.0	946.3	818.4
122.5°	1166.9	1214.6	1239.6	1246.8	1239.6	1214.6	1166.9	1100.3	1011.5	906.1	790.4
125°	1083.7	1125.4	1149.0	1155.7	1149.0	1125.4	1083.7	1023.0	947.2	856.3	753.1
127.5°	1017.6	1053.1	1074.6	1080.6	1074.6	1053.1	1017.6	963.5	894.5	812.5	720.5
130°	976.6	1010.7	1030.6	1038.2	1030.6	1010.7	976.6	926.4	862.0	785.3	700.0
132.5°	939.5	973.5	991.2	996.5	991.2	973.5	939.5	892.3	831.0	759.5	681.1
135°	884.8	913.1	930.2	936.9	930.2	913.1	884.8	838.3	784.3	722.8	655.5
137.5°	826.2	855.0	869.4	873.8	869.4	855.0	826.2	787.2	740.4	687.3	632.2
140°	789.0	815.6	830.7	829.8	830.7	815.6	789.0	753.1	712.3	666.8	618.6
142.5°	752.7	776.2	789.8	788.9	789.8	776.2	752.7	722.0	686.6	647.2	605.7
145°	702.9	722.8	730.3	732.2	730.3	722.8	702.9	679.1	651.8	621.4	590.1
147.5°	664.2	677.7	684.9	685.6	684.9	677.7	664.2	646.2	626.7	602.3	577.5
150°	642.2	652.6	658.4	658.4	658.4	652.6	642.2	628.0	610.0	590.1	568.3
152.5°	622.6	632.2	635.6	635.6	635.6	632.2	622.6	611.4	596.4	578.8	560.0
155°	596.8	604.4	606.3	607.2	606.3	604.4	596.8	588.2	576.9	562.6	547.5
157.5°	574.2	579.9	581.4	581.2	581.4	579.9	574.2	566.8	557.9	547.0	534.3
160°	559.9	565.5	565.5	564.6	565.5	565.5	559.9	553.2	546.6	537.1	526.7
162.5°	545.4	550.3	550.3	549.4	550.3	550.3	545.4	541.0	535.2	526.5	517.6
165°	526.7	530.4	529.5	529.5	529.5	530.4	526.7	522.9	518.1	511.5	505.8
167.5°	508.8	511.5	510.5	510.5	510.5	511.5	508.8	507.2	503.8	499.9	495.6
170°	498.2	500.2	499.2	499.2	499.2	500.2	498.2	497.3	495.4	491.6	488.8
172.5°	489.2	491.1	489.3	488.6	489.3	491.1	489.2	488.9	487.9	484.8	482.7
175°	477.4	478.3	477.4	476.5	477.4	478.3	477.4	477.4	477.4	475.5	474.6
177.5°	470.2	471.0	469.4	469.4	469.4	471.0	470.2	471.0	471.0	470.2	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332083-930
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1268.2	1268.2	1277.9	1284.1	1291.8	1296.9	1300.5	1304.1	1310.3	1318.4	1327.6
5°	1195.6	1198.2	1212.4	1226.5	1239.9	1251.4	1261.0	1272.5	1286.6	1303.9	1323.1
7.5°	1125.4	1135.3	1149.5	1166.7	1185.5	1202.3	1219.4	1238.4	1258.2	1283.7	1310.6
10°	1080.4	1091.2	1108.5	1130.3	1150.1	1170.0	1191.2	1211.7	1236.6	1266.8	1301.4
12.5°	1040.9	1051.2	1069.0	1092.9	1111.7	1133.7	1157.9	1184.5	1212.6	1248.9	1288.1
15°	986.1	998.3	1020.1	1031.6	1060.5	1086.7	1109.1	1147.6	1183.5	1220.7	1266.2
17.5°	941.3	948.0	965.7	987.2	1008.7	1038.1	1067.5	1099.5	1135.3	1180.8	1237.7
20°	910.5	916.3	935.5	958.0	981.0	1008.0	1034.2	1066.2	1106.6	1154.6	1216.2
22.5°	887.5	893.7	906.3	930.3	951.8	974.1	1000.4	1038.5	1081.5	1128.5	1195.1
25°	854.1	857.9	866.3	885.5	904.7	929.8	952.8	988.7	1032.9	1088.0	1154.6
27.5°	822.5	826.2	833.2	846.9	864.9	885.2	910.3	940.8	985.6	1045.5	1116.2
30°	803.5	804.1	810.6	823.4	838.8	855.4	878.5	913.1	955.4	1016.3	1090.5
32.5°	787.1	784.6	789.0	798.7	813.7	830.3	849.3	883.4	924.1	984.0	1060.3
35°	759.3	758.0	756.1	764.4	777.2	790.0	806.7	832.3	878.5	934.3	1014.3
37.5°	731.0	727.9	724.5	728.3	738.3	751.6	766.1	788.9	828.7	890.0	966.6
40°	710.0	707.4	705.5	704.2	713.1	725.9	736.9	758.6	795.8	854.1	929.8
42.5°	686.9	685.3	682.9	681.1	688.6	698.3	709.7	729.0	766.1	820.8	892.3
45°	649.7	648.5	647.2	645.9	650.4	659.3	668.3	682.4	714.4	767.6	832.3
47.5°	608.4	606.7	607.2	605.1	609.5	615.6	621.8	636.9	667.6	710.6	757.9
50°	578.6	578.0	578.0	578.0	579.3	586.3	592.1	603.6	631.8	674.7	708.7
52.5°	550.4	547.7	547.7	548.8	551.1	555.5	559.3	571.9	596.4	631.7	662.5
55°	506.2	501.1	499.8	501.1	503.0	506.9	510.7	521.0	542.1	568.3	586.3
57.5°	457.2	454.4	452.7	453.0	454.0	457.1	460.1	471.2	487.9	501.6	513.1
60°	422.9	424.2	418.4	419.7	419.7	422.2	426.7	433.8	447.9	457.5	469.0
62.5°	390.6	388.8	387.2	385.4	385.4	386.4	392.4	397.9	409.9	415.0	424.0
65°	340.2	340.2	336.4	337.7	338.3	333.9	337.0	343.5	351.1	353.0	361.4
67.5°	289.3	287.5	285.3	283.3	283.3	283.0	284.6	287.8	293.6	294.2	300.7
70°	254.4	253.1	252.5	250.5	248.0	251.2	249.2	252.5	255.7	256.3	260.2
72.5°	220.5	219.2	218.1	216.2	215.2	214.7	214.9	218.7	220.8	219.9	224.3
75°	172.4	171.0	169.8	166.6	166.6	164.7	165.3	167.9	170.5	168.5	172.4
77.5°	126.6	122.6	122.4	123.3	121.1	121.5	120.7	120.3	121.5	121.6	125.1
80°	97.4	92.9	94.2	93.5	92.9	92.3	91.0	91.6	92.3	92.9	94.8
82.5°	70.2	69.9	68.6	68.4	67.8	66.1	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.2	34.6	35.2	34.6	32.7	32.7	34.0	33.3	34.6
87.5°	15.3	15.5	14.4	14.3	13.3	13.2	12.3	12.5	12.4	12.1	12.7
90°	22.7	23.6	20.9	18.0	15.2	12.3	10.4	8.6	5.7	3.8	1.9
92.5°	109.9	145.7	160.3	120.3	79.6	54.8	40.8	32.8	25.4	17.4	11.7
95°	455.6	561.7	500.2	344.8	203.7	123.1	86.2	61.6	45.5	35.1	32.2
97.5°	931.3	870.5	637.3	378.3	219.2	142.3	102.3	78.0	64.0	55.8	55.0
100°	1083.7	897.1	606.3	357.1	217.0	150.6	113.7	90.9	77.7	71.0	70.1
102.5°	1091.2	847.8	560.8	338.9	220.0	160.5	126.5	106.1	93.6	87.7	86.0
105°	1033.5	761.6	504.9	325.9	228.3	177.2	147.7	129.8	118.4	112.8	109.9
107.5°	932.3	685.4	469.3	324.9	243.9	198.9	171.6	154.7	143.6	138.1	135.3
110°	868.6	642.2	455.6	328.7	256.7	214.1	187.5	171.5	161.0	156.3	153.4



TEST NUMBER: P332083-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	813.3	613.4	448.1	336.3	269.6	230.0	204.2	188.1	177.7	173.0	170.2
115°	746.4	582.5	445.2	348.6	290.8	254.8	229.3	213.1	203.7	198.0	194.2
117.5°	706.0	564.4	446.9	364.8	313.3	277.8	254.0	236.0	227.3	222.6	218.3
120°	684.9	556.0	450.0	377.0	327.8	293.7	269.9	252.0	242.5	237.7	234.9
122.5°	667.4	550.7	455.3	388.4	342.9	309.6	284.4	267.1	256.9	252.2	249.3
125°	645.1	543.7	463.2	406.3	364.7	331.5	306.0	288.0	277.5	271.9	269.9
127.5°	625.4	540.3	472.3	421.2	383.6	351.6	326.0	306.1	295.5	288.5	285.7
130°	614.7	538.0	478.3	431.0	395.0	363.7	338.2	318.3	306.9	298.4	295.5
132.5°	605.0	537.3	482.9	440.1	404.9	374.4	349.5	329.6	316.0	306.7	303.1
135°	592.1	536.1	489.8	451.8	419.6	390.3	364.7	344.8	330.6	320.2	316.4
137.5°	580.8	534.0	494.3	460.6	429.8	401.6	378.0	358.2	343.1	332.9	328.9
140°	574.1	533.3	497.3	465.1	436.7	409.2	385.6	366.6	351.4	341.9	337.2
142.5°	567.9	531.8	499.6	469.6	442.0	415.3	393.1	374.1	360.5	350.3	346.3
145°	559.9	529.5	501.1	474.6	449.0	424.4	402.6	386.5	372.3	363.7	360.9
147.5°	551.9	525.9	501.1	477.6	454.7	432.1	413.6	398.0	385.7	377.4	375.7
150°	546.6	522.9	501.1	478.3	458.4	436.7	419.6	406.3	394.0	386.5	385.6
152.5°	540.5	519.1	498.8	479.9	460.7	442.0	425.7	413.9	403.2	395.6	395.4
155°	531.4	512.5	496.4	480.3	465.1	449.0	435.7	425.3	415.9	410.2	410.2
157.5°	521.1	506.6	493.2	481.2	467.6	454.7	444.4	435.5	427.2	422.7	421.9
160°	514.4	502.1	491.6	481.2	469.9	458.4	449.0	442.4	434.8	431.0	431.0
162.5°	507.5	497.5	488.6	480.5	470.6	460.7	452.8	446.9	440.8	437.8	437.8
165°	498.2	490.6	484.0	478.3	471.7	464.1	457.5	453.7	449.0	447.1	448.1
167.5°	489.3	483.9	479.5	476.9	471.6	466.0	461.9	459.3	455.6	454.7	455.8
170°	484.0	479.3	476.5	474.6	470.8	466.0	464.1	462.3	459.4	458.4	460.4
172.5°	478.7	475.5	474.2	473.9	470.8	466.8	465.7	464.6	462.4	462.3	463.4
175°	472.7	470.8	470.8	471.7	469.9	468.0	467.0	467.0	465.1	466.0	467.0
177.5°	468.7	468.0	468.7	470.2	468.7	468.0	468.0	468.0	467.2	468.0	468.7
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



TEST NUMBER: P332083-930

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1330.7	1333.3	1342.0	1348.2	1355.4	1359.4	1363.5	1366.6	1370.7	1371.7	1386.6
5°	1336.6	1349.5	1371.9	1388.5	1409.0	1431.4	1446.8	1453.9	1472.4	1487.8	1518.6
7.5°	1335.0	1362.3	1396.1	1431.2	1468.8	1503.7	1534.0	1569.9	1595.4	1633.7	1671.5
10°	1333.4	1369.9	1413.5	1458.4	1510.9	1559.6	1603.2	1651.9	1692.2	1745.4	1790.9
12.5°	1328.8	1373.0	1433.5	1486.5	1550.4	1617.6	1682.1	1744.7	1780.5	1869.0	1910.9
15°	1317.4	1369.9	1445.5	1526.3	1614.0	1693.5	1775.6	1840.9	1946.6	2024.1	2073.5
17.5°	1295.6	1369.2	1458.9	1556.2	1663.0	1767.7	1860.7	1959.8	2072.0	2165.8	2265.7
20°	1285.4	1366.1	1466.1	1573.7	1684.6	1803.1	1908.9	2028.0	2150.4	2242.6	2370.8
22.5°	1266.4	1357.9	1465.6	1585.5	1704.1	1826.7	1950.4	2070.5	2211.9	2339.0	2461.1
25°	1235.4	1337.9	1449.4	1583.3	1722.4	1845.4	1993.4	2153.0	2300.4	2463.8	2585.5
27.5°	1202.8	1312.3	1424.0	1548.6	1698.1	1844.1	2030.3	2210.6	2390.8	2531.9	2622.0
30°	1177.7	1284.1	1399.5	1525.0	1673.0	1846.7	2054.9	2251.6	2427.2	2548.3	2598.9
32.5°	1150.6	1258.4	1360.5	1492.2	1649.9	1845.1	2070.3	2275.7	2429.3	2509.9	2500.0
35°	1107.9	1198.2	1297.5	1424.4	1610.2	1833.9	2079.3	2277.9	2372.1	2354.8	2224.1
37.5°	1046.4	1122.3	1220.2	1359.0	1564.1	1810.1	2061.3	2210.4	2204.2	2063.4	1874.0
40°	1008.0	1072.6	1166.9	1313.0	1528.2	1794.8	2033.1	2129.9	2047.9	1851.1	1624.3
42.5°	957.7	1017.2	1111.5	1261.7	1488.7	1763.5	1979.3	2007.3	1846.9	1620.5	1412.6
45°	879.8	932.3	1029.7	1184.8	1429.5	1695.4	1848.0	1779.4	1563.4	1329.6	1171.3
47.5°	796.1	850.7	944.4	1103.7	1343.9	1593.1	1665.7	1519.9	1298.2	1108.5	963.2
50°	743.3	795.8	887.5	1048.3	1286.0	1509.0	1539.1	1350.7	1147.0	980.4	861.2
52.5°	690.0	739.5	829.6	990.8	1218.4	1411.6	1393.0	1201.0	1013.7	871.7	778.1
55°	610.7	657.5	743.3	894.5	1101.5	1254.6	1187.3	1004.0	849.0	738.8	667.6
57.5°	539.6	584.5	658.6	795.2	975.1	1080.4	994.7	840.3	717.0	632.2	579.1
60°	491.5	531.2	601.7	728.6	884.9	965.0	880.4	744.0	640.1	572.2	524.8
62.5°	445.8	480.5	545.8	660.9	796.7	864.0	778.4	662.9	574.5	514.3	474.0
65°	376.7	408.1	465.9	555.5	667.0	711.9	638.2	544.6	476.1	431.2	404.3
67.5°	313.7	340.4	390.2	460.8	542.8	575.5	519.4	447.0	395.3	359.3	337.9
70°	271.7	294.7	333.9	394.7	469.0	494.0	441.5	381.9	344.1	315.3	295.4
72.5°	236.3	253.2	288.7	335.7	397.8	417.7	381.0	328.6	293.3	271.7	255.9
75°	180.0	194.1	217.2	255.0	298.0	309.5	281.9	249.2	225.5	210.2	198.0
77.5°	129.8	140.2	156.9	180.2	209.9	220.3	202.8	181.1	163.8	153.4	146.6
80°	98.0	106.4	120.5	139.7	157.6	163.4	153.1	136.5	124.3	118.5	112.8
82.5°	72.4	77.1	85.6	98.7	111.0	117.8	109.1	99.1	92.5	87.2	85.1
85°	36.5	39.1	43.0	48.0	55.8	58.3	55.1	52.5	48.7	45.5	45.5
87.5°	14.1	14.4	16.6	17.9	20.4	22.5	22.6	22.1	22.2	21.4	21.1
90°	3.8	5.7	8.6	10.4	12.3	15.2	18.0	20.9	23.6	22.7	23.6
92.5°	17.4	25.4	32.8	40.8	54.8	79.6	120.3	160.3	145.7	109.9	79.7
95°	35.1	45.5	61.6	86.2	123.1	203.7	344.8	500.2	561.7	455.6	341.0
97.5°	55.8	64.0	78.0	102.3	142.3	219.2	378.3	637.3	870.5	931.3	850.0
100°	71.0	77.7	90.9	113.7	150.6	217.0	357.1	606.3	897.1	1083.7	1116.8
102.5°	87.7	93.6	106.1	126.5	160.5	220.0	338.9	560.8	847.8	1091.2	1205.5
105°	112.8	118.4	129.8	147.7	177.2	228.3	325.9	504.9	761.6	1033.5	1231.4
107.5°	138.1	143.6	154.7	171.6	198.9	243.9	324.9	469.3	685.4	932.3	1156.7
110°	156.3	161.0	171.5	187.5	214.1	256.7	328.7	455.6	642.2	868.6	1085.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.0	177.7	188.1	204.2	230.0	269.6	336.3	448.1	613.4	813.3	1015.0
115°	198.0	203.7	213.1	229.3	254.8	290.8	348.6	445.2	582.5	746.4	921.7
117.5°	222.6	227.3	236.0	254.0	277.8	313.3	364.8	446.9	564.4	706.0	854.0
120°	237.7	242.5	252.0	269.9	293.7	327.8	377.0	450.0	556.0	684.9	818.4
122.5°	252.2	256.9	267.1	284.4	309.6	342.9	388.4	455.3	550.7	667.4	790.4
125°	271.9	277.5	288.0	306.0	331.5	364.7	406.3	463.2	543.7	645.1	753.1
127.5°	288.5	295.5	306.1	326.0	351.6	383.6	421.2	472.3	540.3	625.4	720.5
130°	298.4	306.9	318.3	338.2	363.7	395.0	431.0	478.3	538.0	614.7	700.0
132.5°	306.7	316.0	329.6	349.5	374.4	404.9	440.1	482.9	537.3	605.0	681.1
135°	320.2	330.6	344.8	364.7	390.3	419.6	451.8	489.8	536.1	592.1	655.5
137.5°	332.9	343.1	358.2	378.0	401.6	429.8	460.6	494.3	534.0	580.8	632.2
140°	341.9	351.4	366.6	385.6	409.2	436.7	465.1	497.3	533.3	574.1	618.6
142.5°	350.3	360.5	374.1	393.1	415.3	442.0	469.6	499.6	531.8	567.9	605.7
145°	363.7	372.3	386.5	402.6	424.4	449.0	474.6	501.1	529.5	559.9	590.1
147.5°	377.4	385.7	398.0	413.6	432.1	454.7	477.6	501.1	525.9	551.9	577.5
150°	386.5	394.0	406.3	419.6	436.7	458.4	478.3	501.1	522.9	546.6	568.3
152.5°	395.6	403.2	413.9	425.7	442.0	460.7	479.9	498.8	519.1	540.5	560.0
155°	410.2	415.9	425.3	435.7	449.0	465.1	480.3	496.4	512.5	531.4	547.5
157.5°	422.7	427.2	435.5	444.4	454.7	467.6	481.2	493.2	506.6	521.1	534.3
160°	431.0	434.8	442.4	449.0	458.4	469.9	481.2	491.6	502.1	514.4	526.7
162.5°	437.8	440.8	446.9	452.8	460.7	470.6	480.5	488.6	497.5	507.5	517.6
165°	447.1	449.0	453.7	457.5	464.1	471.7	478.3	484.0	490.6	498.2	505.8
167.5°	454.7	455.6	459.3	461.9	466.0	471.6	476.9	479.5	483.9	489.3	495.6
170°	458.4	459.4	462.3	464.1	466.0	470.8	474.6	476.5	479.3	484.0	488.8
172.5°	462.3	462.4	464.6	465.7	466.8	470.8	473.9	474.2	475.5	478.7	482.7
175°	466.0	465.1	467.0	467.0	468.0	469.9	471.7	470.8	470.8	472.7	474.6
177.5°	468.0	467.2	468.0	468.0	468.0	468.7	470.2	468.7	468.0	468.7	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5	1322.5
2.5°	1391.7	1392.2	1397.9	1402.0	1400.0	1402.5	1403.5
5°	1520.5	1543.6	1555.8	1564.7	1565.4	1566.0	1571.2
7.5°	1703.2	1727.9	1746.0	1773.4	1781.6	1790.9	1788.2
10°	1836.5	1872.9	1904.4	1921.0	1938.9	1965.2	1944.1
12.5°	1961.0	2025.7	2073.5	2099.4	2116.3	2121.6	2111.2
15°	2166.4	2251.0	2296.5	2295.2	2352.9	2377.9	2338.8
17.5°	2354.8	2432.9	2495.4	2527.4	2575.4	2586.1	2581.2
20°	2470.1	2555.4	2604.1	2659.2	2684.1	2706.5	2710.4
22.5°	2569.6	2646.1	2698.4	2744.2	2765.2	2775.8	2782.2
25°	2672.0	2732.2	2763.6	2779.6	2785.4	2784.1	2775.8
27.5°	2664.9	2669.5	2635.0	2601.0	2570.6	2536.4	2524.6
30°	2595.7	2541.9	2445.8	2391.4	2311.2	2247.8	2273.4
32.5°	2413.8	2306.6	2198.7	2079.7	1981.1	1953.0	1924.8
35°	2060.0	1871.7	1761.5	1633.3	1582.0	1530.8	1495.5
37.5°	1666.6	1520.9	1390.2	1306.4	1255.0	1222.5	1205.2
40°	1441.0	1309.7	1202.1	1134.2	1095.0	1058.5	1053.4
42.5°	1261.2	1139.1	1058.0	1004.0	966.4	950.9	939.6
45°	1032.9	947.7	893.2	854.8	829.8	820.2	807.4
47.5°	874.2	814.0	773.1	747.0	728.1	721.0	720.0
50°	785.5	735.6	705.5	684.9	670.3	667.6	657.5
52.5°	718.9	675.6	652.2	634.2	623.6	616.4	613.3
55°	624.1	595.3	574.1	563.9	555.5	548.5	548.5
57.5°	546.1	522.0	508.0	499.3	496.7	491.7	488.5
60°	497.9	477.4	466.5	458.8	453.6	454.3	448.5
62.5°	450.7	437.4	427.0	419.3	413.2	413.3	413.7
65°	383.8	373.6	365.9	363.3	359.5	355.0	356.3
67.5°	325.2	315.6	309.7	305.2	303.9	301.6	305.2
70°	283.2	276.1	271.7	267.8	266.5	267.2	270.4
72.5°	244.8	239.8	236.8	235.1	232.2	232.4	234.5
75°	192.2	188.4	185.8	183.9	183.3	183.3	183.3
77.5°	141.2	140.3	139.2	136.3	136.5	137.2	137.4
80°	111.5	109.6	108.9	107.6	105.7	104.4	107.6
82.5°	83.3	81.4	80.7	80.5	77.5	77.3	80.0
85°	44.8	43.0	43.5	43.0	43.0	42.3	42.3
87.5°	20.8	20.5	20.4	20.7	20.4	20.1	20.9
90°	24.6	25.6	27.5	26.5	27.5	28.5	27.5
92.5°	63.3	55.8	51.0	49.2	46.4	47.4	45.7
95°	231.1	180.9	146.8	128.8	120.3	113.7	109.9
97.5°	680.9	558.7	445.4	375.5	332.9	307.3	299.1
100°	1040.1	929.3	794.8	699.0	629.9	593.0	593.9
102.5°	1203.0	1138.4	1053.1	978.7	924.0	893.1	871.3
105°	1326.2	1344.2	1319.6	1275.9	1240.0	1209.7	1204.9
107.5°	1310.6	1393.6	1427.3	1428.1	1415.9	1405.7	1397.0
110°	1259.9	1379.2	1445.5	1472.0	1479.6	1477.7	1475.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1193.2	1326.9	1412.2	1460.7	1484.2	1491.3	1491.8
115°	1086.5	1225.7	1329.0	1400.0	1441.7	1460.7	1465.4
117.5°	996.3	1121.4	1226.1	1300.2	1347.9	1375.2	1381.7
120°	946.3	1060.0	1155.7	1230.4	1283.5	1306.3	1312.0
122.5°	906.1	1011.5	1100.3	1166.9	1214.6	1239.6	1246.8
125°	856.3	947.2	1023.0	1083.7	1125.4	1149.0	1155.7
127.5°	812.5	894.5	963.5	1017.6	1053.1	1074.6	1080.6
130°	785.3	862.0	926.4	976.6	1010.7	1030.6	1038.2
132.5°	759.5	831.0	892.3	939.5	973.5	991.2	996.5
135°	722.8	784.3	838.3	884.8	913.1	930.2	936.9
137.5°	687.3	740.4	787.2	826.2	855.0	869.4	873.8
140°	666.8	712.3	753.1	789.0	815.6	830.7	829.8
142.5°	647.2	686.6	722.0	752.7	776.2	789.8	788.9
145°	621.4	651.8	679.1	702.9	722.8	730.3	732.2
147.5°	602.3	626.7	646.2	664.2	677.7	684.9	685.6
150°	590.1	610.0	628.0	642.2	652.6	658.4	658.4
152.5°	578.8	596.4	611.4	622.6	632.2	635.6	635.6
155°	562.6	576.9	588.2	596.8	604.4	606.3	607.2
157.5°	547.0	557.9	566.8	574.2	579.9	581.4	581.2
160°	537.1	546.6	553.2	559.9	565.5	565.5	564.6
162.5°	526.5	535.2	541.0	545.4	550.3	550.3	549.4
165°	511.5	518.1	522.9	526.7	530.4	529.5	529.5
167.5°	499.9	503.8	507.2	508.8	511.5	510.5	510.5
170°	491.6	495.4	497.3	498.2	500.2	499.2	499.2
172.5°	484.8	487.9	488.9	489.2	491.1	489.3	488.6
175°	475.5	477.4	477.4	477.4	478.3	477.4	476.5
177.5°	470.2	471.0	471.0	470.2	471.0	469.4	469.4
180°	468.0	468.0	468.0	468.0	468.0	468.0	468.0

(END OF REPORT)