

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: P332074-930

Luminaire Tested: **S123DIP-S1165D1025U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332074-930
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-S1165D1025U930-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

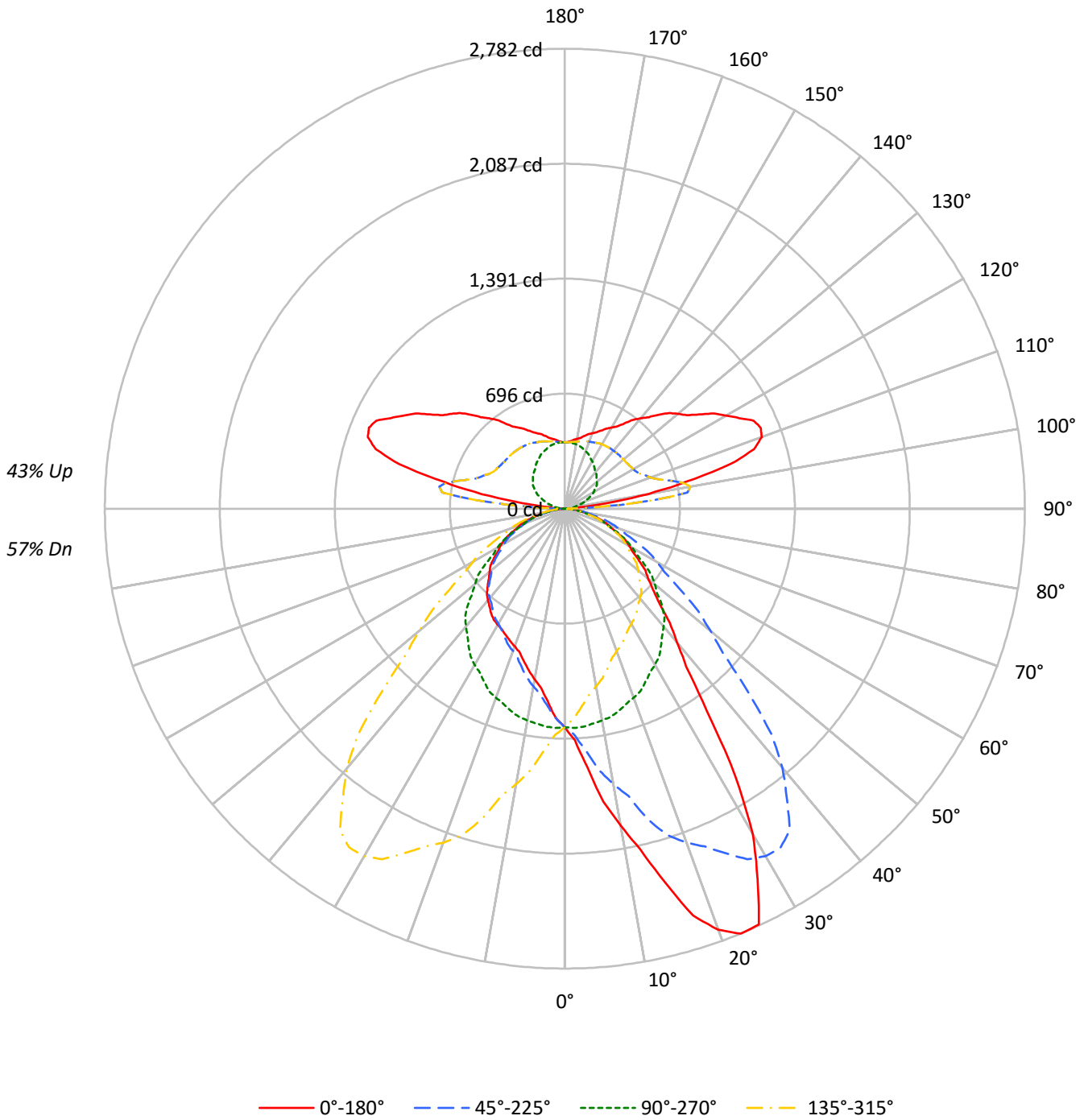
Lumens per Lamp: N/A
Luminaire Lumens: 7019.4 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.8
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	100	95	92	88	93	89	86	83	77	75	72	66	64	63	56	55	53	49
2	91	84	78	72	84	78	73	68	68	64	60	58	55	53	49	47	45	41
3	83	74	67	61	77	69	63	57	60	55	51	52	48	45	44	41	39	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	39	39	36	34	30
5	70	58	50	44	65	55	48	42	48	42	38	42	37	34	36	32	30	26
6	65	53	44	39	60	49	42	37	43	37	33	38	33	30	32	29	26	23
7	60	48	40	34	56	45	37	32	39	34	29	34	30	26	30	26	23	21
8	56	43	35	30	52	41	34	29	36	30	26	31	27	23	27	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

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	1.9
10°-20°	417.7	6.0
20°-30°	701.1	10.0
30°-40°	793.9	11.3
40°-50°	711.9	10.1
50°-60°	574.5	8.2
60°-70°	400.3	5.7
70°-80°	210.4	3.0
80°-90°	54.6	0.8
90°-100°	223.7	3.2
100°-110°	633.5	9.0
110°-120°	623.2	8.9
120°-130°	497.1	7.1
130°-140°	391.9	5.6
140°-150°	292.5	4.2
150°-160°	203.9	2.9
160°-170°	119.8	1.7
170°-180°	39.0	0.6
0°-30°	1249.1	17.8
0°-40°	2043.0	29.1
0°-60°	3329.4	47.4
0°-90°	3994.8	56.9
90°-120°	1480.5	21.1
90°-150°	2662.0	37.9
90°-180°	3025.0	43.1
0°-180°	7019.4	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°	24	2	24	2	24	15
95°	94	28	94	28	94	170
105°	1035	94	1035	94	1035	1021
115°	1259	167	1259	167	1259	1223
125°	993	232	993	232	993	900
135°	805	272	805	272	805	624
145°	629	310	629	310	629	400
155°	522	352	522	352	522	243
165°	455	385	455	385	455	130
175°	409	401	409	401	409	40
180°	402	402	402	402	402	



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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°	20.1	19.2	19.6	20.0	19.6	19.8	20.1	20.5	20.8	21.5	21.5
90°	23.6	24.4	23.6	22.7	23.6	22.0	21.2	20.4	19.6	20.4	17.9
92.5°	39.2	40.7	39.9	42.3	43.8	48.0	54.4	68.5	94.4	125.1	137.7
95°	94.4	97.7	103.4	110.7	126.1	155.5	198.6	292.9	391.4	482.6	429.7
97.5°	257.0	264.0	286.0	322.6	382.6	480.0	585.0	730.3	800.1	747.9	547.6
100°	510.3	509.5	541.2	600.6	682.8	798.3	893.6	959.5	931.0	770.7	520.8
102.5°	748.5	767.3	793.8	840.8	904.8	978.0	1033.6	1035.7	937.5	728.4	481.8
105°	1035.2	1039.3	1065.3	1096.2	1133.7	1154.8	1139.4	1057.9	887.9	654.3	433.7
107.5°	1200.2	1207.7	1216.5	1226.9	1226.3	1197.3	1126.0	993.8	801.0	588.9	403.2
110°	1268.0	1269.6	1271.2	1264.7	1241.9	1184.9	1082.4	932.6	746.2	551.8	391.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1281.6	1281.2	1275.0	1254.9	1213.2	1140.0	1025.1	872.0	698.7	527.0	384.9
115°	1259.0	1254.9	1238.6	1202.8	1141.7	1053.0	933.4	791.8	641.3	500.5	382.5
117.5°	1187.0	1181.5	1158.1	1117.0	1053.4	963.4	856.0	733.8	606.6	484.9	383.9
120°	1127.2	1122.3	1102.7	1057.1	992.9	910.7	813.0	703.1	588.4	477.7	386.5
122.5°	1071.1	1064.9	1043.5	1002.5	945.3	869.0	778.5	679.1	573.4	473.1	391.1
125°	992.9	987.2	966.8	931.0	878.9	813.8	735.7	647.0	554.2	467.2	397.9
127.5°	928.4	923.2	904.8	874.2	827.8	768.6	698.1	619.0	537.3	464.2	405.8
130°	891.9	885.4	868.4	839.0	795.9	740.5	674.7	601.4	528.2	462.3	411.0
132.5°	856.1	851.6	836.4	807.1	766.6	713.9	652.5	585.1	519.7	461.6	414.9
135°	804.9	799.2	784.5	760.1	720.2	673.8	620.9	563.1	508.7	460.6	420.8
137.5°	750.6	746.9	734.6	709.8	676.3	636.1	590.5	543.2	499.0	458.9	424.6
140°	712.9	713.7	700.7	677.9	647.0	612.0	572.9	531.4	493.2	458.2	427.2
142.5°	677.8	678.6	666.8	646.7	620.3	589.9	556.0	520.3	488.0	456.9	429.2
145°	629.1	627.5	620.9	603.8	583.5	559.9	533.9	507.0	480.9	454.9	430.5
147.5°	589.1	588.4	582.2	570.6	555.2	538.4	517.4	496.1	474.1	451.8	430.5
150°	565.6	565.6	560.7	551.8	539.6	524.1	507.0	488.3	469.5	449.2	430.5
152.5°	546.1	546.1	543.2	534.8	525.2	512.4	497.3	481.1	464.4	446.0	428.5
155°	521.6	520.8	519.2	512.7	505.4	495.6	483.4	470.3	456.6	440.3	426.4
157.5°	499.4	499.5	498.2	493.3	487.0	479.3	469.9	459.0	447.8	435.2	423.7
160°	485.0	485.8	485.8	480.9	475.2	469.5	461.5	452.5	441.9	431.3	422.4
162.5°	472.0	472.8	472.8	468.6	464.9	459.8	452.3	444.7	436.0	427.4	419.8
165°	454.9	454.9	455.8	452.5	449.2	445.2	439.4	434.6	428.0	421.6	415.9
167.5°	438.6	438.6	439.4	437.2	435.7	432.8	429.5	425.7	420.4	415.7	412.0
170°	428.8	428.8	429.7	428.0	427.2	425.6	422.4	420.0	415.9	411.8	409.4
172.5°	419.8	420.4	421.9	420.3	420.1	419.1	416.5	414.7	411.3	408.5	407.4
175°	409.4	410.2	411.0	410.2	410.2	410.2	408.5	407.7	406.1	404.5	404.5
177.5°	403.3	403.3	404.6	404.0	404.6	404.6	404.0	403.3	402.7	402.0	402.7
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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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°	22.1	22.1	20.1	17.7	16.3	14.3	13.9	12.6	11.9	12.2	12.2
90°	15.5	13.0	10.6	9.0	7.3	4.9	3.3	1.6	3.3	4.9	7.3
92.5°	103.4	68.3	47.0	35.0	28.1	21.9	15.0	10.1	15.0	21.9	28.1
95°	296.2	175.0	105.8	74.0	52.9	39.1	30.1	27.6	30.1	39.1	52.9
97.5°	325.1	188.3	122.2	87.9	67.0	55.0	48.0	47.2	48.0	55.0	67.0
100°	306.8	186.4	129.4	97.7	78.1	66.8	61.1	60.3	61.1	66.8	78.1
102.5°	291.1	189.0	137.9	108.8	91.2	80.4	75.3	73.9	75.3	80.4	91.2
105°	280.0	196.2	152.2	126.9	111.5	101.7	96.9	94.4	96.9	101.7	111.5
107.5°	279.2	209.5	170.9	147.5	133.0	123.4	118.6	116.2	118.6	123.4	133.0
110°	282.4	220.5	183.9	161.1	147.3	138.4	134.3	131.8	134.3	138.4	147.3



TEST NUMBER: P332074-930

CATALOG NUMBER: S123DIP-S1165D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	288.9	231.6	197.6	175.5	161.6	152.7	148.6	146.2	148.6	152.7	161.6
115°	299.5	249.8	218.9	197.0	183.1	175.0	170.1	166.8	170.1	175.0	183.1
117.5°	313.5	269.2	238.6	218.3	202.8	195.3	191.3	187.5	191.3	195.3	202.8
120°	323.9	281.6	252.3	232.0	216.5	208.3	204.2	201.8	204.2	208.3	216.5
122.5°	333.7	294.6	266.0	244.3	229.5	220.7	216.6	214.2	216.6	220.7	229.5
125°	349.1	313.3	284.9	262.9	247.4	238.5	233.6	232.0	233.6	238.5	247.4
127.5°	361.8	329.6	302.1	280.1	263.0	253.9	247.9	245.5	247.9	253.9	263.0
130°	370.3	339.3	312.5	290.5	273.5	263.7	256.3	253.9	256.3	263.7	273.5
132.5°	378.1	347.8	321.6	300.3	283.2	271.5	263.5	260.4	263.5	271.5	283.2
135°	388.2	360.5	335.3	313.3	296.2	284.1	275.1	271.8	275.1	284.1	296.2
137.5°	395.7	369.3	345.0	324.7	307.8	294.7	286.0	282.6	286.0	294.7	307.8
140°	399.6	375.2	351.6	331.3	315.0	301.9	293.8	289.8	293.8	301.9	315.0
142.5°	403.5	379.8	356.8	337.7	321.5	309.7	300.9	297.5	300.9	309.7	321.5
145°	407.7	385.7	364.6	345.8	332.1	319.8	312.5	310.1	312.5	319.8	332.1
147.5°	410.3	390.6	371.3	355.3	341.9	331.4	324.2	322.8	324.2	331.4	341.9
150°	411.0	393.9	375.2	360.5	349.1	338.5	332.1	331.3	332.1	338.5	349.1
152.5°	412.3	395.8	379.8	365.7	355.6	346.3	339.8	339.7	339.8	346.3	355.6
155°	412.6	399.6	385.7	374.4	365.4	357.3	352.4	352.4	352.4	357.3	365.4
157.5°	413.4	401.7	390.6	381.8	374.2	367.0	363.1	362.5	363.1	367.0	374.2
160°	413.4	403.7	393.9	385.7	380.0	373.6	370.3	370.3	370.3	373.6	380.0
162.5°	412.8	404.3	395.8	389.0	383.9	378.8	376.2	376.2	376.2	378.8	383.9
165°	411.0	405.3	398.8	393.1	389.8	385.7	384.1	384.9	384.1	385.7	389.8
167.5°	409.7	405.1	400.4	396.8	394.5	391.4	390.6	391.6	390.6	391.4	394.5
170°	407.7	404.5	400.4	398.8	397.1	394.7	393.9	395.5	393.9	394.7	397.1
172.5°	407.1	404.5	401.0	400.1	399.1	397.3	397.1	398.1	397.1	397.3	399.1
175°	405.3	403.7	402.0	401.2	401.2	399.6	400.4	401.2	400.4	399.6	401.2
177.5°	404.0	402.7	402.0	402.0	402.0	401.4	402.0	402.7	402.0	401.4	402.0
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332074-930

CATALOG NUMBER: S123DIP-S1165D1025U930-4F0-1E-UDD-A4

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°	12.1	12.9	12.9	13.9	13.9	14.8	14.7	13.8	13.9	15.7	13.9
90°	9.0	10.6	13.0	15.5	17.9	20.4	19.6	20.4	21.2	22.0	23.6
92.5°	35.0	47.0	68.3	103.4	137.7	125.1	94.4	68.5	54.4	48.0	43.8
95°	74.0	105.8	175.0	296.2	429.7	482.6	391.4	292.9	198.6	155.5	126.1
97.5°	87.9	122.2	188.3	325.1	547.6	747.9	800.1	730.3	585.0	480.0	382.6
100°	97.7	129.4	186.4	306.8	520.8	770.7	931.0	959.5	893.6	798.3	682.8
102.5°	108.8	137.9	189.0	291.1	481.8	728.4	937.5	1035.7	1033.6	978.0	904.8
105°	126.9	152.2	196.2	280.0	433.7	654.3	887.9	1057.9	1139.4	1154.8	1133.7
107.5°	147.5	170.9	209.5	279.2	403.2	588.9	801.0	993.8	1126.0	1197.3	1226.3
110°	161.1	183.9	220.5	282.4	391.4	551.8	746.2	932.6	1082.4	1184.9	1241.9



TEST NUMBER: P332074-930

CATALOG NUMBER: S123DIP-S1165D1025U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	175.5	197.6	231.6	288.9	384.9	527.0	698.7	872.0	1025.1	1140.0	1213.2
115°	197.0	218.9	249.8	299.5	382.5	500.5	641.3	791.8	933.4	1053.0	1141.7
117.5°	218.3	238.6	269.2	313.5	383.9	484.9	606.6	733.8	856.0	963.4	1053.4
120°	232.0	252.3	281.6	323.9	386.5	477.7	588.4	703.1	813.0	910.7	992.9
122.5°	244.3	266.0	294.6	333.7	391.1	473.1	573.4	679.1	778.5	869.0	945.3
125°	262.9	284.9	313.3	349.1	397.9	467.2	554.2	647.0	735.7	813.8	878.9
127.5°	280.1	302.1	329.6	361.8	405.8	464.2	537.3	619.0	698.1	768.6	827.8
130°	290.5	312.5	339.3	370.3	411.0	462.3	528.2	601.4	674.7	740.5	795.9
132.5°	300.3	321.6	347.8	378.1	414.9	461.6	519.7	585.1	652.5	713.9	766.6
135°	313.3	335.3	360.5	388.2	420.8	460.6	508.7	563.1	620.9	673.8	720.2
137.5°	324.7	345.0	369.3	395.7	424.6	458.9	499.0	543.2	590.5	636.1	676.3
140°	331.3	351.6	375.2	399.6	427.2	458.2	493.2	531.4	572.9	612.0	647.0
142.5°	337.7	356.8	379.8	403.5	429.2	456.9	488.0	520.3	556.0	589.9	620.3
145°	345.8	364.6	385.7	407.7	430.5	454.9	480.9	507.0	533.9	559.9	583.5
147.5°	355.3	371.3	390.6	410.3	430.5	451.8	474.1	496.1	517.4	538.4	555.2
150°	360.5	375.2	393.9	411.0	430.5	449.2	469.5	488.3	507.0	524.1	539.6
152.5°	365.7	379.8	395.8	412.3	428.5	446.0	464.4	481.1	497.3	512.4	525.2
155°	374.4	385.7	399.6	412.6	426.4	440.3	456.6	470.3	483.4	495.6	505.4
157.5°	381.8	390.6	401.7	413.4	423.7	435.2	447.8	459.0	469.9	479.3	487.0
160°	385.7	393.9	403.7	413.4	422.4	431.3	441.9	452.5	461.5	469.5	475.2
162.5°	389.0	395.8	404.3	412.8	419.8	427.4	436.0	444.7	452.3	459.8	464.9
165°	393.1	398.8	405.3	411.0	415.9	421.6	428.0	434.6	439.4	445.2	449.2
167.5°	396.8	400.4	405.1	409.7	412.0	415.7	420.4	425.7	429.5	432.8	435.7
170°	398.8	400.4	404.5	407.7	409.4	411.8	415.9	420.0	422.4	425.6	427.2
172.5°	400.1	401.0	404.5	407.1	407.4	408.5	411.3	414.7	416.5	419.1	420.1
175°	401.2	402.0	403.7	405.3	404.5	404.5	406.1	407.7	408.5	410.2	410.2
177.5°	402.0	402.0	402.7	404.0	402.7	402.0	402.7	403.3	404.0	404.6	404.6
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332074-930

CATALOG NUMBER: S123DIP-S1165D1025U930-4F0-1E-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°	13.8	13.9	13.6	12.9	13.6	13.9	13.8	13.9	15.7	13.9	13.8
90°	22.7	23.6	24.4	23.6	24.4	23.6	22.7	23.6	22.0	21.2	20.4
92.5°	42.3	39.9	40.7	39.2	40.7	39.9	42.3	43.8	48.0	54.4	68.5
95°	110.7	103.4	97.7	94.4	97.7	103.4	110.7	126.1	155.5	198.6	292.9
97.5°	322.6	286.0	264.0	257.0	264.0	286.0	322.6	382.6	480.0	585.0	730.3
100°	600.6	541.2	509.5	510.3	509.5	541.2	600.6	682.8	798.3	893.6	959.5
102.5°	840.8	793.8	767.3	748.5	767.3	793.8	840.8	904.8	978.0	1033.6	1035.7
105°	1096.2	1065.3	1039.3	1035.2	1039.3	1065.3	1096.2	1133.7	1154.8	1139.4	1057.9
107.5°	1226.9	1216.5	1207.7	1200.2	1207.7	1216.5	1226.9	1226.3	1197.3	1126.0	993.8
110°	1264.7	1271.2	1269.6	1268.0	1269.6	1271.2	1264.7	1241.9	1184.9	1082.4	932.6



TEST NUMBER: P332074-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1254.9	1275.0	1281.2	1281.6	1281.2	1275.0	1254.9	1213.2	1140.0	1025.1	872.0
115°	1202.8	1238.6	1254.9	1259.0	1254.9	1238.6	1202.8	1141.7	1053.0	933.4	791.8
117.5°	1117.0	1158.1	1181.5	1187.0	1181.5	1158.1	1117.0	1053.4	963.4	856.0	733.8
120°	1057.1	1102.7	1122.3	1127.2	1122.3	1102.7	1057.1	992.9	910.7	813.0	703.1
122.5°	1002.5	1043.5	1064.9	1071.1	1064.9	1043.5	1002.5	945.3	869.0	778.5	679.1
125°	931.0	966.8	987.2	992.9	987.2	966.8	931.0	878.9	813.8	735.7	647.0
127.5°	874.2	904.8	923.2	928.4	923.2	904.8	874.2	827.8	768.6	698.1	619.0
130°	839.0	868.4	885.4	891.9	885.4	868.4	839.0	795.9	740.5	674.7	601.4
132.5°	807.1	836.4	851.6	856.1	851.6	836.4	807.1	766.6	713.9	652.5	585.1
135°	760.1	784.5	799.2	804.9	799.2	784.5	760.1	720.2	673.8	620.9	563.1
137.5°	709.8	734.6	746.9	750.6	746.9	734.6	709.8	676.3	636.1	590.5	543.2
140°	677.9	700.7	713.7	712.9	713.7	700.7	677.9	647.0	612.0	572.9	531.4
142.5°	646.7	666.8	678.6	677.8	678.6	666.8	646.7	620.3	589.9	556.0	520.3
145°	603.8	620.9	627.5	629.1	627.5	620.9	603.8	583.5	559.9	533.9	507.0
147.5°	570.6	582.2	588.4	589.1	588.4	582.2	570.6	555.2	538.4	517.4	496.1
150°	551.8	560.7	565.6	565.6	565.6	560.7	551.8	539.6	524.1	507.0	488.3
152.5°	534.8	543.2	546.1	546.1	546.1	543.2	534.8	525.2	512.4	497.3	481.1
155°	512.7	519.2	520.8	521.6	520.8	519.2	512.7	505.4	495.6	483.4	470.3
157.5°	493.3	498.2	499.5	499.4	499.5	498.2	493.3	487.0	479.3	469.9	459.0
160°	480.9	485.8	485.8	485.0	485.8	485.8	480.9	475.2	469.5	461.5	452.5
162.5°	468.6	472.8	472.8	472.0	472.8	472.8	468.6	464.9	459.8	452.3	444.7
165°	452.5	455.8	454.9	454.9	454.9	455.8	452.5	449.2	445.2	439.4	434.6
167.5°	437.2	439.4	438.6	438.6	438.6	439.4	437.2	435.7	432.8	429.5	425.7
170°	428.0	429.7	428.8	428.8	428.8	429.7	428.0	427.2	425.6	422.4	420.0
172.5°	420.3	421.9	420.4	419.8	420.4	421.9	420.3	420.1	419.1	416.5	414.7
175°	410.2	411.0	410.2	409.4	410.2	411.0	410.2	410.2	410.2	408.5	407.7
177.5°	404.0	404.6	403.3	403.3	403.3	404.6	404.0	404.6	404.6	404.0	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332074-930

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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°	14.7	14.8	13.9	13.9	12.9	12.9	12.1	12.2	12.2	11.9	12.6
90°	19.6	20.4	17.9	15.5	13.0	10.6	9.0	7.3	4.9	3.3	1.6
92.5°	94.4	125.1	137.7	103.4	68.3	47.0	35.0	28.1	21.9	15.0	10.1
95°	391.4	482.6	429.7	296.2	175.0	105.8	74.0	52.9	39.1	30.1	27.6
97.5°	800.1	747.9	547.6	325.1	188.3	122.2	87.9	67.0	55.0	48.0	47.2
100°	931.0	770.7	520.8	306.8	186.4	129.4	97.7	78.1	66.8	61.1	60.3
102.5°	937.5	728.4	481.8	291.1	189.0	137.9	108.8	91.2	80.4	75.3	73.9
105°	887.9	654.3	433.7	280.0	196.2	152.2	126.9	111.5	101.7	96.9	94.4
107.5°	801.0	588.9	403.2	279.2	209.5	170.9	147.5	133.0	123.4	118.6	116.2
110°	746.2	551.8	391.4	282.4	220.5	183.9	161.1	147.3	138.4	134.3	131.8



TEST NUMBER: P332074-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	698.7	527.0	384.9	288.9	231.6	197.6	175.5	161.6	152.7	148.6	146.2
115°	641.3	500.5	382.5	299.5	249.8	218.9	197.0	183.1	175.0	170.1	166.8
117.5°	606.6	484.9	383.9	313.5	269.2	238.6	218.3	202.8	195.3	191.3	187.5
120°	588.4	477.7	386.5	323.9	281.6	252.3	232.0	216.5	208.3	204.2	201.8
122.5°	573.4	473.1	391.1	333.7	294.6	266.0	244.3	229.5	220.7	216.6	214.2
125°	554.2	467.2	397.9	349.1	313.3	284.9	262.9	247.4	238.5	233.6	232.0
127.5°	537.3	464.2	405.8	361.8	329.6	302.1	280.1	263.0	253.9	247.9	245.5
130°	528.2	462.3	411.0	370.3	339.3	312.5	290.5	273.5	263.7	256.3	253.9
132.5°	519.7	461.6	414.9	378.1	347.8	321.6	300.3	283.2	271.5	263.5	260.4
135°	508.7	460.6	420.8	388.2	360.5	335.3	313.3	296.2	284.1	275.1	271.8
137.5°	499.0	458.9	424.6	395.7	369.3	345.0	324.7	307.8	294.7	286.0	282.6
140°	493.2	458.2	427.2	399.6	375.2	351.6	331.3	315.0	301.9	293.8	289.8
142.5°	488.0	456.9	429.2	403.5	379.8	356.8	337.7	321.5	309.7	300.9	297.5
145°	480.9	454.9	430.5	407.7	385.7	364.6	345.8	332.1	319.8	312.5	310.1
147.5°	474.1	451.8	430.5	410.3	390.6	371.3	355.3	341.9	331.4	324.2	322.8
150°	469.5	449.2	430.5	411.0	393.9	375.2	360.5	349.1	338.5	332.1	331.3
152.5°	464.4	446.0	428.5	412.3	395.8	379.8	365.7	355.6	346.3	339.8	339.7
155°	456.6	440.3	426.4	412.6	399.6	385.7	374.4	365.4	357.3	352.4	352.4
157.5°	447.8	435.2	423.7	413.4	401.7	390.6	381.8	374.2	367.0	363.1	362.5
160°	441.9	431.3	422.4	413.4	403.7	393.9	385.7	380.0	373.6	370.3	370.3
162.5°	436.0	427.4	419.8	412.8	404.3	395.8	389.0	383.9	378.8	376.2	376.2
165°	428.0	421.6	415.9	411.0	405.3	398.8	393.1	389.8	385.7	384.1	384.9
167.5°	420.4	415.7	412.0	409.7	405.1	400.4	396.8	394.5	391.4	390.6	391.6
170°	415.9	411.8	409.4	407.7	404.5	400.4	398.8	397.1	394.7	393.9	395.5
172.5°	411.3	408.5	407.4	407.1	404.5	401.0	400.1	399.1	397.3	397.1	398.1
175°	406.1	404.5	404.5	405.3	403.7	402.0	401.2	401.2	399.6	400.4	401.2
177.5°	402.7	402.0	402.7	404.0	402.7	402.0	402.0	402.0	401.4	402.0	402.7
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



TEST NUMBER: P332074-930
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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°	13.9	14.3	16.3	17.7	20.1	22.1	22.1	21.5	21.5	20.8	20.5
90°	3.3	4.9	7.3	9.0	10.6	13.0	15.5	17.9	20.4	19.6	20.4
92.5°	15.0	21.9	28.1	35.0	47.0	68.3	103.4	137.7	125.1	94.4	68.5
95°	30.1	39.1	52.9	74.0	105.8	175.0	296.2	429.7	482.6	391.4	292.9
97.5°	48.0	55.0	67.0	87.9	122.2	188.3	325.1	547.6	747.9	800.1	730.3
100°	61.1	66.8	78.1	97.7	129.4	186.4	306.8	520.8	770.7	931.0	959.5
102.5°	75.3	80.4	91.2	108.8	137.9	189.0	291.1	481.8	728.4	937.5	1035.7
105°	96.9	101.7	111.5	126.9	152.2	196.2	280.0	433.7	654.3	887.9	1057.9
107.5°	118.6	123.4	133.0	147.5	170.9	209.5	279.2	403.2	588.9	801.0	993.8
110°	134.3	138.4	147.3	161.1	183.9	220.5	282.4	391.4	551.8	746.2	932.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	148.6	152.7	161.6	175.5	197.6	231.6	288.9	384.9	527.0	698.7	872.0
115°	170.1	175.0	183.1	197.0	218.9	249.8	299.5	382.5	500.5	641.3	791.8
117.5°	191.3	195.3	202.8	218.3	238.6	269.2	313.5	383.9	484.9	606.6	733.8
120°	204.2	208.3	216.5	232.0	252.3	281.6	323.9	386.5	477.7	588.4	703.1
122.5°	216.6	220.7	229.5	244.3	266.0	294.6	333.7	391.1	473.1	573.4	679.1
125°	233.6	238.5	247.4	262.9	284.9	313.3	349.1	397.9	467.2	554.2	647.0
127.5°	247.9	253.9	263.0	280.1	302.1	329.6	361.8	405.8	464.2	537.3	619.0
130°	256.3	263.7	273.5	290.5	312.5	339.3	370.3	411.0	462.3	528.2	601.4
132.5°	263.5	271.5	283.2	300.3	321.6	347.8	378.1	414.9	461.6	519.7	585.1
135°	275.1	284.1	296.2	313.3	335.3	360.5	388.2	420.8	460.6	508.7	563.1
137.5°	286.0	294.7	307.8	324.7	345.0	369.3	395.7	424.6	458.9	499.0	543.2
140°	293.8	301.9	315.0	331.3	351.6	375.2	399.6	427.2	458.2	493.2	531.4
142.5°	300.9	309.7	321.5	337.7	356.8	379.8	403.5	429.2	456.9	488.0	520.3
145°	312.5	319.8	332.1	345.8	364.6	385.7	407.7	430.5	454.9	480.9	507.0
147.5°	324.2	331.4	341.9	355.3	371.3	390.6	410.3	430.5	451.8	474.1	496.1
150°	332.1	338.5	349.1	360.5	375.2	393.9	411.0	430.5	449.2	469.5	488.3
152.5°	339.8	346.3	355.6	365.7	379.8	395.8	412.3	428.5	446.0	464.4	481.1
155°	352.4	357.3	365.4	374.4	385.7	399.6	412.6	426.4	440.3	456.6	470.3
157.5°	363.1	367.0	374.2	381.8	390.6	401.7	413.4	423.7	435.2	447.8	459.0
160°	370.3	373.6	380.0	385.7	393.9	403.7	413.4	422.4	431.3	441.9	452.5
162.5°	376.2	378.8	383.9	389.0	395.8	404.3	412.8	419.8	427.4	436.0	444.7
165°	384.1	385.7	389.8	393.1	398.8	405.3	411.0	415.9	421.6	428.0	434.6
167.5°	390.6	391.4	394.5	396.8	400.4	405.1	409.7	412.0	415.7	420.4	425.7
170°	393.9	394.7	397.1	398.8	400.4	404.5	407.7	409.4	411.8	415.9	420.0
172.5°	397.1	397.3	399.1	400.1	401.0	404.5	407.1	407.4	408.5	411.3	414.7
175°	400.4	399.6	401.2	401.2	402.0	403.7	405.3	404.5	404.5	406.1	407.7
177.5°	402.0	401.4	402.0	402.0	402.0	402.7	404.0	402.7	402.0	402.7	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0	402.0



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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°	20.1	19.8	19.6	20.0	19.6	19.2	20.1
90°	21.2	22.0	23.6	22.7	23.6	24.4	23.6
92.5°	54.4	48.0	43.8	42.3	39.9	40.7	39.2
95°	198.6	155.5	126.1	110.7	103.4	97.7	94.4
97.5°	585.0	480.0	382.6	322.6	286.0	264.0	257.0
100°	893.6	798.3	682.8	600.6	541.2	509.5	510.3
102.5°	1033.6	978.0	904.8	840.8	793.8	767.3	748.5
105°	1139.4	1154.8	1133.7	1096.2	1065.3	1039.3	1035.2
107.5°	1126.0	1197.3	1226.3	1226.9	1216.5	1207.7	1200.2
110°	1082.4	1184.9	1241.9	1264.7	1271.2	1269.6	1268.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1025.1	1140.0	1213.2	1254.9	1275.0	1281.2	1281.6
115°	933.4	1053.0	1141.7	1202.8	1238.6	1254.9	1259.0
117.5°	856.0	963.4	1053.4	1117.0	1158.1	1181.5	1187.0
120°	813.0	910.7	992.9	1057.1	1102.7	1122.3	1127.2
122.5°	778.5	869.0	945.3	1002.5	1043.5	1064.9	1071.1
125°	735.7	813.8	878.9	931.0	966.8	987.2	992.9
127.5°	698.1	768.6	827.8	874.2	904.8	923.2	928.4
130°	674.7	740.5	795.9	839.0	868.4	885.4	891.9
132.5°	652.5	713.9	766.6	807.1	836.4	851.6	856.1
135°	620.9	673.8	720.2	760.1	784.5	799.2	804.9
137.5°	590.5	636.1	676.3	709.8	734.6	746.9	750.6
140°	572.9	612.0	647.0	677.9	700.7	713.7	712.9
142.5°	556.0	589.9	620.3	646.7	666.8	678.6	677.8
145°	533.9	559.9	583.5	603.8	620.9	627.5	629.1
147.5°	517.4	538.4	555.2	570.6	582.2	588.4	589.1
150°	507.0	524.1	539.6	551.8	560.7	565.6	565.6
152.5°	497.3	512.4	525.2	534.8	543.2	546.1	546.1
155°	483.4	495.6	505.4	512.7	519.2	520.8	521.6
157.5°	469.9	479.3	487.0	493.3	498.2	499.5	499.4
160°	461.5	469.5	475.2	480.9	485.8	485.8	485.0
162.5°	452.3	459.8	464.9	468.6	472.8	472.8	472.0
165°	439.4	445.2	449.2	452.5	455.8	454.9	454.9
167.5°	429.5	432.8	435.7	437.2	439.4	438.6	438.6
170°	422.4	425.6	427.2	428.0	429.7	428.8	428.8
172.5°	416.5	419.1	420.1	420.3	421.9	420.4	419.8
175°	408.5	410.2	410.2	410.2	411.0	410.2	409.4
177.5°	404.0	404.6	404.6	404.0	404.6	403.3	403.3
180°	402.0	402.0	402.0	402.0	402.0	402.0	402.0

(END OF REPORT)