

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: P332074-935

Luminaire Tested: **S123DIP-S1165D1025U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332074-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D1025U935-4F0-1E-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: 7412.9 lumens
Efficiency: N/A
Efficacy: 111.0 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

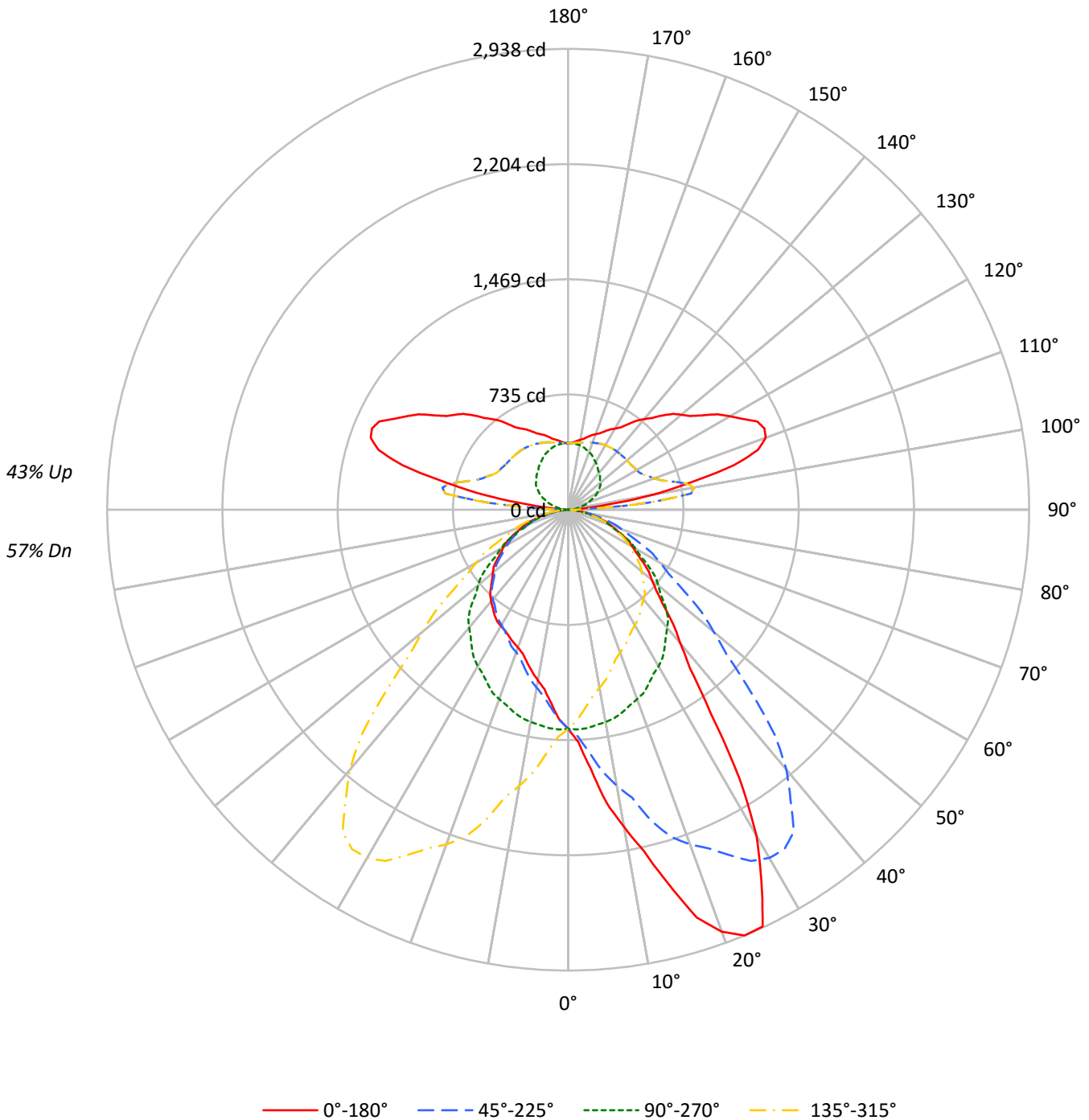
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	15033	15033	15033	15033
5°	17928	15098	13380	15098
10°	22440	15021	12085	15021
15°	27524	14900	11251	14900
20°	32787	14712	10711	14712
25°	34815	14481	10592	14481
30°	29840	14315	10648	14315
35°	20752	14076	10759	14076
40°	15632	13797	10725	13797
45°	12979	13381	10589	13381
50°	11627	12532	10493	12532
55°	10869	11618	10363	11618
60°	10196	10663	10256	10663
65°	9584	9722	9928	9722
70°	8988	8645	9454	8645
75°	8052	7569	8667	7569
80°	7048	6205	7469	6205
85°	5521	4508	5014	4508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.9
10°-20°	441.2	6.0
20°-30°	740.4	10.0
30°-40°	838.4	11.3
40°-50°	751.8	10.1
50°-60°	606.7	8.2
60°-70°	422.8	5.7
70°-80°	222.2	3.0
80°-90°	57.6	0.8
90°-100°	236.3	3.2
100°-110°	669.0	9.0
110°-120°	658.1	8.9
120°-130°	525.0	7.1
130°-140°	413.9	5.6
140°-150°	308.9	4.2
150°-160°	215.3	2.9
160°-170°	126.5	1.7
170°-180°	41.2	0.6
0°-30°	1319.2	17.8
0°-40°	2157.5	29.1
0°-60°	3516.1	47.4
0°-90°	4218.7	56.9
90°-120°	1563.5	21.1
90°-150°	2811.2	37.9
90°-180°	3194.0	43.1
0°-180°	7412.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1397	1397	1397	1397	1397	
5°	1659	1397	1238	1397	1659	172
15°	2470	1337	1010	1337	2470	713
25°	2931	1219	892	1219	2931	1286
35°	1579	1071	819	1071	1579	1026
45°	853	879	696	879	853	675
55°	579	619	552	619	579	520
65°	376	382	390	382	376	375
75°	194	182	208	182	194	207
85°	45	36	41	36	45	53
90°	25	2	25	2	25	15
95°	100	29	100	29	100	180
105°	1093	100	1093	100	1093	1078
115°	1330	176	1330	176	1330	1292
125°	1048	245	1048	245	1048	950
135°	850	287	850	287	850	659
145°	664	327	664	327	664	423
155°	551	372	551	372	551	257
165°	480	406	480	406	480	137
175°	432	424	432	424	432	42
180°	425	425	425	425	425	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1482.2	1481.1	1478.4	1480.6	1476.3	1470.2	1469.7	1464.3	1448.6	1447.5	1443.2
5°	1659.2	1653.8	1653.1	1652.4	1643.0	1630.1	1605.8	1603.7	1571.2	1555.0	1535.4
7.5°	1888.4	1891.3	1881.5	1872.8	1843.8	1824.7	1798.6	1765.2	1725.3	1684.8	1657.9
10°	2053.1	2075.4	2047.6	2028.7	2011.1	1977.9	1939.4	1891.3	1843.2	1787.1	1744.5
12.5°	2229.6	2240.5	2234.9	2217.1	2189.7	2139.2	2070.9	2018.0	1973.8	1880.3	1842.5
15°	2469.9	2511.2	2484.8	2423.9	2425.2	2377.1	2287.8	2189.7	2137.6	2055.7	1944.1
17.5°	2725.9	2731.1	2719.8	2669.1	2635.3	2569.2	2486.8	2392.7	2287.2	2188.1	2069.7
20°	2862.3	2858.3	2834.6	2808.2	2750.0	2698.6	2608.6	2503.7	2368.4	2271.0	2141.7
22.5°	2938.2	2931.4	2920.2	2898.0	2849.7	2794.4	2713.6	2599.0	2470.1	2335.9	2186.6
25°	2931.4	2940.1	2941.5	2935.4	2918.5	2885.4	2821.8	2730.4	2601.9	2429.3	2273.6
27.5°	2666.1	2678.6	2714.7	2746.8	2782.7	2819.2	2814.3	2769.0	2673.8	2524.8	2334.5
30°	2400.8	2373.8	2440.8	2525.4	2582.9	2684.3	2741.3	2744.6	2691.1	2563.3	2377.8
32.5°	2032.7	2062.5	2092.1	2196.2	2321.9	2435.9	2549.1	2640.2	2650.6	2565.4	2403.3
35°	1579.3	1616.6	1670.7	1724.8	1860.2	1976.6	2175.5	2348.7	2486.8	2505.1	2405.5
37.5°	1272.7	1291.1	1325.3	1379.6	1468.1	1606.2	1760.1	1979.0	2179.0	2327.8	2334.3
40°	1112.5	1117.8	1156.4	1197.7	1269.5	1383.1	1521.8	1715.4	1954.9	2162.7	2249.3
42.5°	992.3	1004.2	1020.5	1060.2	1117.3	1202.9	1331.9	1491.8	1711.3	1950.4	2119.9
45°	852.6	866.2	876.3	902.7	943.3	1000.8	1090.8	1237.0	1404.1	1651.1	1879.1
47.5°	760.3	761.4	769.0	788.8	816.5	859.6	923.3	1017.2	1170.6	1371.0	1605.1
50°	694.3	705.1	707.8	723.3	745.0	776.8	829.6	909.5	1035.4	1211.3	1426.4
52.5°	647.7	651.0	658.6	669.8	688.7	713.5	759.2	821.7	920.6	1070.5	1268.3
55°	579.2	579.2	586.7	595.5	606.3	628.6	659.1	705.1	780.2	896.6	1060.3
57.5°	515.9	519.3	524.5	527.3	536.5	551.2	576.7	611.6	667.6	757.2	887.4
60°	473.6	479.7	479.1	484.5	492.7	504.1	525.8	554.2	604.2	676.0	785.7
62.5°	436.9	436.4	436.4	442.8	450.9	461.9	476.0	500.6	543.1	606.7	700.1
65°	376.3	374.9	379.6	383.7	386.4	394.5	405.4	427.0	455.4	502.7	575.1
67.5°	322.4	318.5	321.0	322.4	327.0	333.3	343.5	356.9	379.4	417.5	472.1
70°	285.6	282.1	281.5	282.8	286.9	291.6	299.1	311.9	332.9	363.3	403.3
72.5°	247.6	245.4	245.2	248.2	250.1	253.2	258.5	270.3	286.9	309.8	347.0
75°	193.6	193.6	193.6	194.2	196.2	199.0	203.0	209.1	222.0	238.2	263.2
77.5°	145.1	144.9	144.1	144.0	147.0	148.2	149.1	154.8	162.0	173.0	191.2
80°	113.7	110.3	111.7	113.7	115.0	115.7	117.8	119.1	125.2	131.3	144.1
82.5°	84.5	81.6	81.9	85.0	85.2	85.9	88.0	89.9	92.1	97.7	104.6
85°	44.7	44.7	45.4	45.4	46.0	45.4	47.4	48.0	48.0	51.4	55.4
87.5°	21.3	20.3	20.7	21.1	20.7	20.9	21.3	21.6	22.0	22.7	22.7
90°	24.9	25.7	24.9	24.0	24.9	23.2	22.4	21.5	20.7	21.5	18.9
92.5°	41.4	43.0	42.1	44.7	46.2	50.7	57.4	72.3	99.7	132.2	145.4
95°	99.7	103.1	109.2	116.9	133.2	164.2	209.7	309.4	413.4	509.6	453.7
97.5°	271.4	278.8	302.0	340.7	404.1	506.9	617.8	771.3	845.0	789.8	578.2
100°	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3	983.2	813.9	550.0
102.5°	790.5	810.3	838.3	887.9	955.5	1032.9	1091.5	1093.7	990.1	769.2	508.8
105°	1093.2	1097.5	1125.0	1157.6	1197.2	1219.5	1203.2	1117.2	937.6	691.0	458.1
107.5°	1267.5	1275.4	1284.7	1295.7	1295.0	1264.4	1189.1	1049.6	845.8	621.9	425.8
110°	1339.0	1340.7	1342.5	1335.6	1311.5	1251.3	1143.1	984.9	788.1	582.7	413.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1353.4	1353.1	1346.5	1325.3	1281.3	1203.9	1082.5	920.9	737.9	556.6	406.5
115°	1329.6	1325.3	1308.0	1270.2	1205.7	1112.1	985.8	836.2	677.3	528.6	403.9
117.5°	1253.5	1247.8	1223.0	1179.7	1112.4	1017.4	904.0	774.9	640.6	512.0	405.4
120°	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5	621.4	504.5	408.2
122.5°	1131.2	1124.6	1102.0	1058.7	998.3	917.7	822.2	717.1	605.5	499.6	413.0
125°	1048.5	1042.5	1021.0	983.2	928.2	859.5	777.0	683.3	585.3	493.4	420.3
127.5°	980.4	974.9	955.5	923.2	874.2	811.7	737.2	653.7	567.4	490.3	428.5
130°	941.9	935.0	917.1	886.1	840.5	782.0	712.5	635.2	557.8	488.2	434.0
132.5°	904.1	899.3	883.3	852.4	809.6	753.9	689.1	617.9	548.8	487.5	438.2
135°	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7	537.2	486.5	444.4
137.5°	792.7	788.8	775.8	749.6	714.2	671.8	623.6	573.6	527.0	484.6	448.4
140°	752.9	753.7	739.9	715.9	683.3	646.3	605.0	561.2	520.8	483.9	451.2
142.5°	715.7	716.6	704.2	682.9	655.0	622.9	587.2	549.5	515.3	482.5	453.2
145°	664.3	662.6	655.7	637.7	616.2	591.2	563.8	535.5	507.9	480.4	454.6
147.5°	622.1	621.4	614.8	602.6	586.3	568.6	546.4	523.9	500.7	477.2	454.6
150°	597.3	597.3	592.1	582.7	569.8	553.5	535.5	515.7	495.8	474.4	454.6
152.5°	576.7	576.7	573.6	564.8	554.7	541.1	525.1	508.1	490.4	471.0	452.5
155°	550.9	550.0	548.3	541.5	533.7	523.4	510.5	496.7	482.2	464.9	450.3
157.5°	527.4	527.5	526.2	521.0	514.3	506.2	496.2	484.7	472.9	459.6	447.5
160°	512.2	513.1	513.1	507.9	501.9	495.8	487.3	477.9	466.7	455.5	446.1
162.5°	498.4	499.3	499.3	494.9	490.9	485.6	477.7	469.6	460.5	451.3	443.3
165°	480.4	480.4	481.3	477.9	474.4	470.1	464.1	458.9	452.0	445.2	439.2
167.5°	463.2	463.2	464.1	461.7	460.1	457.0	453.6	449.6	444.0	439.0	435.1
170°	452.9	452.9	453.7	452.0	451.2	449.4	446.1	443.5	439.2	434.9	432.3
172.5°	443.3	444.0	445.6	443.8	443.7	442.6	439.9	438.0	434.4	431.4	430.2
175°	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6	428.9	427.1	427.1
177.5°	425.9	425.9	427.3	426.6	427.3	427.3	426.6	425.9	425.2	424.6	425.2
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1439.9	1435.6	1431.3	1423.7	1417.2	1408.0	1405.3	1402.1	1392.3	1383.7	1377.2
5°	1527.9	1511.7	1488.0	1466.4	1448.8	1425.1	1411.5	1397.3	1377.0	1358.7	1343.8
7.5°	1620.0	1588.0	1551.2	1511.4	1474.4	1438.6	1409.8	1384.1	1355.6	1328.7	1307.8
10°	1693.1	1647.0	1595.6	1540.2	1492.7	1446.7	1408.2	1374.3	1337.8	1306.0	1279.6
12.5°	1776.4	1708.2	1637.3	1569.9	1513.9	1450.0	1403.3	1360.3	1318.9	1280.6	1250.9
15°	1875.1	1788.5	1704.5	1611.9	1526.6	1446.7	1391.3	1337.1	1289.1	1249.8	1211.9
17.5°	1965.0	1866.8	1756.3	1643.5	1540.7	1446.0	1368.2	1307.1	1247.0	1198.9	1161.1
20°	2015.9	1904.2	1779.0	1661.9	1548.3	1442.7	1357.5	1284.4	1219.3	1168.6	1126.0
22.5°	2059.7	1929.1	1799.6	1674.4	1547.7	1434.0	1337.4	1262.1	1191.8	1142.1	1096.7
25°	2105.1	1948.9	1818.9	1672.1	1530.7	1412.9	1304.7	1219.3	1149.0	1090.8	1044.1
27.5°	2144.1	1947.5	1793.3	1635.4	1503.8	1385.9	1270.2	1178.8	1104.1	1040.9	993.5
30°	2170.1	1950.2	1766.8	1610.5	1477.9	1356.1	1243.7	1151.7	1073.2	1008.9	964.2
32.5°	2186.3	1948.5	1742.4	1575.9	1436.8	1329.0	1215.0	1119.7	1039.1	975.9	932.9
35°	2195.8	1936.6	1700.5	1504.3	1370.3	1265.4	1170.0	1071.2	986.6	927.7	879.0
37.5°	2176.9	1911.6	1651.7	1435.2	1288.6	1185.3	1105.0	1020.8	939.9	875.1	833.1
40°	2147.1	1895.4	1613.9	1386.6	1232.3	1132.7	1064.5	981.9	902.0	840.4	801.2
42.5°	2090.2	1862.3	1572.2	1332.4	1173.8	1074.3	1011.3	942.4	866.9	809.0	769.8
45°	1951.5	1790.4	1509.7	1251.2	1087.4	984.6	929.1	879.0	810.6	754.5	720.7
47.5°	1759.1	1682.4	1419.3	1165.5	997.3	898.4	840.7	800.4	750.4	705.1	672.6
50°	1625.4	1593.5	1358.1	1107.1	937.2	840.4	785.0	748.4	712.6	667.2	637.4
52.5°	1471.1	1490.7	1286.7	1046.4	876.1	780.9	728.7	699.6	667.1	629.8	603.9
55°	1253.9	1324.9	1163.2	944.6	785.0	694.3	644.9	619.1	600.2	572.5	550.2
57.5°	1050.5	1140.9	1029.8	839.7	695.5	617.3	569.9	541.9	529.7	515.2	497.7
60°	929.8	1019.1	934.5	769.4	635.4	560.9	519.0	495.3	483.1	473.0	458.1
62.5°	822.0	912.4	841.4	697.9	576.4	507.4	470.8	447.7	438.2	432.9	420.3
65°	674.0	751.8	704.4	586.7	492.0	431.0	397.9	381.7	372.8	370.8	362.7
67.5°	548.5	607.8	573.3	486.6	412.1	359.5	331.3	317.5	310.7	310.0	303.9
70°	466.2	521.7	495.3	416.8	352.6	311.3	286.9	274.7	270.7	270.0	266.7
72.5°	402.3	441.1	420.1	354.6	304.9	267.4	249.5	236.9	232.2	233.2	230.9
75°	297.7	326.8	314.7	269.3	229.4	205.0	190.1	182.0	178.0	180.0	177.3
77.5°	214.2	232.6	221.7	190.3	165.7	148.1	137.1	132.1	128.5	128.3	127.1
80°	161.7	172.5	166.4	147.5	127.3	112.4	103.5	100.1	98.2	97.5	96.8
82.5°	115.2	124.4	117.2	104.2	90.4	81.5	76.5	72.0	70.5	70.9	70.3
85°	58.2	61.6	58.9	50.7	45.4	41.2	38.6	36.5	35.2	35.9	34.5
87.5°	23.3	23.3	21.2	18.7	17.2	15.1	14.7	13.3	12.6	12.9	12.9
90°	16.4	13.8	11.2	9.5	7.7	5.2	3.4	1.7	3.4	5.2	7.7
92.5°	109.2	72.2	49.7	36.9	29.7	23.1	15.8	10.7	15.8	23.1	29.7
95°	312.8	184.8	111.8	78.2	55.9	41.2	31.8	29.2	31.8	41.2	55.9
97.5°	343.3	198.9	129.1	92.8	70.8	58.1	50.7	49.9	50.7	58.1	70.8
100°	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6	64.5	70.5	82.5
102.5°	307.5	199.6	145.6	114.9	96.3	84.9	79.6	78.0	79.6	84.9	96.3
105°	295.7	207.2	160.7	134.1	117.8	107.5	102.3	99.7	102.3	107.5	117.8
107.5°	294.8	221.2	180.5	155.8	140.4	130.3	125.3	122.7	125.3	130.3	140.4
110°	298.3	232.9	194.2	170.1	155.6	146.1	141.8	139.2	141.8	146.1	155.6



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CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	305.1	244.6	208.7	185.3	170.7	161.3	157.0	154.4	157.0	161.3	170.7
115°	316.2	263.8	231.2	208.0	193.4	184.8	179.6	176.2	179.6	184.8	193.4
117.5°	331.1	284.3	252.0	230.5	214.1	206.3	202.0	198.0	202.0	206.3	214.1
120°	342.1	297.4	266.4	245.0	228.6	220.0	215.7	213.1	215.7	220.0	228.6
122.5°	352.4	311.1	280.9	258.0	242.4	233.1	228.8	226.2	228.8	233.1	242.4
125°	368.7	330.9	300.8	277.6	261.2	251.8	246.7	245.0	246.7	251.8	261.2
127.5°	382.1	348.1	319.0	295.8	277.8	268.1	261.7	259.2	261.7	268.1	277.8
130°	391.1	358.3	330.0	306.8	288.8	278.4	270.7	268.1	270.7	278.4	288.8
132.5°	399.3	367.3	339.7	317.1	299.1	286.7	278.3	275.0	278.3	286.7	299.1
135°	409.9	380.7	354.0	330.9	312.8	300.0	290.5	287.1	290.5	300.0	312.8
137.5°	417.8	390.0	364.4	342.9	325.0	311.3	302.0	298.4	302.0	311.3	325.0
140°	422.0	396.2	371.3	349.8	332.6	318.8	310.2	306.0	310.2	318.8	332.6
142.5°	426.1	401.1	376.8	356.6	339.5	327.1	317.8	314.2	317.8	327.1	339.5
145°	430.6	407.3	385.0	365.2	350.7	337.8	330.0	327.4	330.0	337.8	350.7
147.5°	433.3	412.5	392.1	375.2	361.1	350.0	342.4	340.9	342.4	350.0	361.1
150°	434.0	415.9	396.2	380.7	368.7	357.5	350.7	349.8	350.7	357.5	368.7
152.5°	435.4	418.0	401.1	386.2	375.6	365.8	358.9	358.7	358.9	365.8	375.6
155°	435.8	422.0	407.3	395.4	385.9	377.3	372.1	372.1	372.1	377.3	385.9
157.5°	436.6	424.2	412.5	403.2	395.2	387.6	383.5	382.8	383.5	387.6	395.2
160°	436.6	426.3	415.9	407.3	401.3	394.5	391.1	391.1	391.1	394.5	401.3
162.5°	435.9	427.0	418.0	410.8	405.4	400.0	397.3	397.3	397.3	400.0	405.4
165°	434.0	428.0	421.1	415.1	411.6	407.3	405.6	406.5	405.6	407.3	411.6
167.5°	432.7	427.8	422.8	419.0	416.6	413.4	412.5	413.5	412.5	413.4	416.6
170°	430.6	427.1	422.8	421.1	419.4	416.8	415.9	417.7	415.9	416.8	419.4
172.5°	429.9	427.1	423.5	422.5	421.5	419.6	419.4	420.4	419.4	419.6	421.5
175°	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7	422.8	422.0	423.7
177.5°	426.6	425.2	424.6	424.6	424.6	423.9	424.6	425.2	424.6	423.9	424.6
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332074-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1373.4	1369.6	1364.2	1356.1	1349.5	1339.3	1339.3	1340.9	1340.9	1340.4	1339.3
5°	1331.7	1321.5	1309.4	1295.2	1280.3	1265.4	1262.7	1257.2	1253.2	1250.5	1247.2
7.5°	1287.7	1269.7	1252.0	1232.1	1213.9	1198.9	1188.5	1179.8	1174.3	1168.4	1164.0
10°	1257.9	1235.6	1214.6	1193.7	1170.6	1152.4	1140.9	1132.7	1126.7	1121.3	1118.5
12.5°	1222.8	1197.2	1174.1	1154.2	1128.9	1110.2	1099.2	1095.4	1088.2	1076.9	1070.9
15°	1171.3	1147.6	1119.9	1089.4	1077.3	1054.3	1041.4	1035.4	1031.2	1022.4	1019.8
17.5°	1127.3	1096.3	1065.2	1042.5	1019.9	1001.2	994.0	986.4	981.0	973.9	971.7
20°	1092.2	1064.5	1036.0	1011.7	987.9	967.7	961.6	956.1	950.7	947.4	944.6
22.5°	1056.4	1028.7	1005.1	982.4	957.1	943.8	937.2	931.3	927.5	925.1	922.5
25°	1006.3	981.9	955.5	935.1	914.9	906.0	902.0	898.6	896.0	892.5	891.8
27.5°	961.3	934.8	913.3	894.4	879.9	872.5	868.6	866.9	867.5	868.7	869.5
30°	927.7	903.4	885.8	869.5	856.0	849.2	848.5	848.5	851.3	852.0	853.3
32.5°	896.9	876.8	859.3	843.5	833.3	828.6	831.2	831.2	833.4	835.2	837.6
35°	852.0	834.3	820.8	807.3	798.5	800.5	801.8	803.2	806.6	810.6	813.4
37.5°	809.0	793.8	779.6	769.1	765.1	768.7	772.0	774.8	778.7	781.9	784.5
40°	778.2	766.6	753.1	743.6	745.0	747.1	749.8	753.1	756.6	758.5	761.3
42.5°	749.5	737.4	727.2	719.3	721.2	723.8	725.4	727.2	731.1	734.8	736.3
45°	705.8	696.3	686.8	682.1	683.5	684.8	686.1	688.2	691.6	694.3	694.9
47.5°	656.7	650.1	643.7	639.0	641.2	640.7	642.5	646.8	647.8	649.5	653.2
50°	625.3	619.1	611.7	610.4	610.4	610.4	611.1	616.5	616.5	619.1	621.9
52.5°	590.6	586.7	581.9	579.5	578.4	578.4	581.3	584.0	585.0	588.8	591.6
55°	539.3	535.3	531.2	529.2	527.8	529.2	534.6	535.9	539.3	541.3	543.4
57.5°	485.9	482.8	479.5	478.4	478.1	479.9	482.8	486.9	487.8	494.0	497.1
60°	450.6	445.9	443.2	443.2	441.9	448.0	446.6	453.4	454.7	458.8	463.6
62.5°	414.4	408.0	407.0	407.0	408.9	410.6	412.5	415.5	419.0	424.1	427.8
65°	355.9	352.6	357.3	356.6	355.2	359.3	359.3	362.7	366.8	371.5	378.9
67.5°	300.6	298.9	299.2	299.2	301.3	303.6	305.5	308.4	313.3	318.3	323.2
70°	263.2	265.3	261.9	264.6	266.7	267.3	268.6	272.7	278.1	281.5	286.9
72.5°	227.0	226.8	227.2	228.3	230.3	231.5	232.9	237.5	243.5	246.3	250.6
75°	174.6	173.9	175.9	175.9	179.3	180.6	182.0	184.1	189.5	193.6	196.9
77.5°	127.5	128.3	127.9	130.2	129.2	129.5	133.7	135.8	136.3	144.3	146.0
80°	96.1	97.5	98.2	98.8	99.4	98.2	102.9	104.9	104.9	109.6	113.0
82.5°	69.1	69.8	71.6	72.2	72.4	73.8	74.1	75.7	77.3	79.3	83.8
85°	34.5	36.5	37.2	36.5	37.2	35.9	37.9	38.6	39.3	39.3	39.3
87.5°	12.7	13.6	13.6	14.6	14.6	15.7	15.5	14.6	14.7	16.5	14.7
90°	9.5	11.2	13.8	16.4	18.9	21.5	20.7	21.5	22.4	23.2	24.9
92.5°	36.9	49.7	72.2	109.2	145.4	132.2	99.7	72.3	57.4	50.7	46.2
95°	78.2	111.8	184.8	312.8	453.7	509.6	413.4	309.4	209.7	164.2	133.2
97.5°	92.8	129.1	198.9	343.3	578.2	789.8	845.0	771.3	617.8	506.9	404.1
100°	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3	943.7	843.1	721.1
102.5°	114.9	145.6	199.6	307.5	508.8	769.2	990.1	1093.7	1091.5	1032.9	955.5
105°	134.1	160.7	207.2	295.7	458.1	691.0	937.6	1117.2	1203.2	1219.5	1197.2
107.5°	155.8	180.5	221.2	294.8	425.8	621.9	845.8	1049.6	1189.1	1264.4	1295.0
110°	170.1	194.2	232.9	298.3	413.4	582.7	788.1	984.9	1143.1	1251.3	1311.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	185.3	208.7	244.6	305.1	406.5	556.6	737.9	920.9	1082.5	1203.9	1281.3
115°	208.0	231.2	263.8	316.2	403.9	528.6	677.3	836.2	985.8	1112.1	1205.7
117.5°	230.5	252.0	284.3	331.1	405.4	512.0	640.6	774.9	904.0	1017.4	1112.4
120°	245.0	266.4	297.4	342.1	408.2	504.5	621.4	742.5	858.6	961.7	1048.5
122.5°	258.0	280.9	311.1	352.4	413.0	499.6	605.5	717.1	822.2	917.7	998.3
125°	277.6	300.8	330.9	368.7	420.3	493.4	585.3	683.3	777.0	859.5	928.2
127.5°	295.8	319.0	348.1	382.1	428.5	490.3	567.4	653.7	737.2	811.7	874.2
130°	306.8	330.0	358.3	391.1	434.0	488.2	557.8	635.2	712.5	782.0	840.5
132.5°	317.1	339.7	367.3	399.3	438.2	487.5	548.8	617.9	689.1	753.9	809.6
135°	330.9	354.0	380.7	409.9	444.4	486.5	537.2	594.7	655.7	711.6	760.6
137.5°	342.9	364.4	390.0	417.8	448.4	484.6	527.0	573.6	623.6	671.8	714.2
140°	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2	605.0	646.3	683.3
142.5°	356.6	376.8	401.1	426.1	453.2	482.5	515.3	549.5	587.2	622.9	655.0
145°	365.2	385.0	407.3	430.6	454.6	480.4	507.9	535.5	563.8	591.2	616.2
147.5°	375.2	392.1	412.5	433.3	454.6	477.2	500.7	523.9	546.4	568.6	586.3
150°	380.7	396.2	415.9	434.0	454.6	474.4	495.8	515.7	535.5	553.5	569.8
152.5°	386.2	401.1	418.0	435.4	452.5	471.0	490.4	508.1	525.1	541.1	554.7
155°	395.4	407.3	422.0	435.8	450.3	464.9	482.2	496.7	510.5	523.4	533.7
157.5°	403.2	412.5	424.2	436.6	447.5	459.6	472.9	484.7	496.2	506.2	514.3
160°	407.3	415.9	426.3	436.6	446.1	455.5	466.7	477.9	487.3	495.8	501.9
162.5°	410.8	418.0	427.0	435.9	443.3	451.3	460.5	469.6	477.7	485.6	490.9
165°	415.1	421.1	428.0	434.0	439.2	445.2	452.0	458.9	464.1	470.1	474.4
167.5°	419.0	422.8	427.8	432.7	435.1	439.0	444.0	449.6	453.6	457.0	460.1
170°	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5	446.1	449.4	451.2
172.5°	422.5	423.5	427.1	429.9	430.2	431.4	434.4	438.0	439.9	442.6	443.7
175°	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6	431.4	433.2	433.2
177.5°	424.6	424.6	425.2	426.6	425.2	424.6	425.2	425.9	426.6	427.3	427.3
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332074-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1335.5	1335.0	1338.8	1336.0	1338.8	1335.0	1335.5	1339.3	1340.4	1340.9	1340.9
5°	1243.0	1245.1	1238.3	1238.3	1238.3	1245.1	1243.0	1247.2	1250.5	1253.2	1257.2
7.5°	1160.8	1157.8	1158.0	1154.4	1158.0	1157.8	1160.8	1164.0	1168.4	1174.3	1179.8
10°	1110.4	1106.4	1105.0	1105.7	1105.0	1106.4	1110.4	1118.5	1121.3	1126.7	1132.7
12.5°	1068.8	1067.9	1059.0	1059.1	1059.0	1067.9	1068.8	1070.9	1076.9	1088.2	1095.4
15°	1019.8	1006.9	1005.6	1009.6	1005.6	1006.9	1019.8	1019.8	1022.4	1031.2	1035.4
17.5°	970.6	963.9	964.2	962.3	964.2	963.9	970.6	971.7	973.9	981.0	986.4
20°	944.6	940.6	939.9	935.1	939.9	940.6	944.6	944.6	947.4	950.7	956.1
22.5°	920.8	919.5	919.9	914.6	919.9	919.5	920.8	922.5	925.1	927.5	931.3
25°	891.2	894.6	891.8	891.8	891.8	894.6	891.2	891.8	892.5	896.0	898.6
27.5°	871.2	871.0	869.7	869.7	869.7	871.0	871.2	869.5	868.7	867.5	866.9
30°	856.0	855.3	856.7	856.7	856.7	855.3	856.0	853.3	852.0	851.3	848.5
32.5°	840.9	841.8	842.1	842.6	842.1	841.8	840.9	837.6	835.2	833.4	831.2
35°	817.4	818.1	820.1	818.8	820.1	818.1	817.4	813.4	810.6	806.6	803.2
37.5°	785.7	788.8	788.2	789.3	788.2	788.8	785.7	784.5	781.9	778.7	774.8
40°	761.9	764.0	763.3	763.3	763.3	764.0	761.9	761.3	758.5	756.6	753.1
42.5°	737.6	739.1	737.3	736.2	737.3	739.1	737.6	736.3	734.8	731.1	727.2
45°	697.7	696.3	698.4	695.6	698.4	696.3	697.7	694.9	694.3	691.6	688.2
47.5°	653.0	654.4	654.9	656.9	654.9	654.4	653.0	653.2	649.5	647.8	646.8
50°	623.2	627.2	627.2	626.6	627.2	627.2	623.2	621.9	619.1	616.5	616.5
52.5°	594.0	595.9	598.6	598.5	598.6	595.9	594.0	591.6	588.8	585.0	584.0
55°	548.8	550.2	551.5	552.2	551.5	550.2	548.8	543.4	541.3	539.3	535.9
57.5°	502.0	501.4	504.6	505.6	504.6	501.4	502.0	497.1	494.0	487.8	486.9
60°	468.9	468.9	474.3	476.4	474.3	468.9	468.9	463.6	458.8	454.7	453.4
62.5°	433.8	435.9	441.3	438.5	441.3	435.9	433.8	427.8	424.1	419.0	415.5
65°	382.3	387.7	387.0	389.8	387.0	387.7	382.3	378.9	371.5	366.8	362.7
67.5°	328.6	332.0	336.8	337.3	336.8	332.0	328.6	323.2	318.3	313.3	308.4
70°	292.3	295.7	298.4	300.4	298.4	295.7	292.3	286.9	281.5	278.1	272.7
72.5°	257.2	258.9	265.4	262.5	265.4	258.9	257.2	250.6	246.3	243.5	237.5
75°	201.6	206.4	210.4	208.4	210.4	206.4	201.6	196.9	193.6	189.5	184.1
77.5°	149.1	153.9	155.8	154.0	155.8	153.9	149.1	146.0	144.3	136.3	135.8
80°	117.8	117.1	121.1	120.5	121.1	117.1	117.8	113.0	109.6	104.9	104.9
82.5°	86.4	85.7	87.6	88.0	87.6	85.7	86.4	83.8	79.3	77.3	75.7
85°	41.9	44.0	41.2	40.6	41.2	44.0	41.9	39.3	39.3	39.3	38.6
87.5°	14.6	14.7	14.4	13.6	14.4	14.7	14.6	14.7	16.5	14.7	14.6
90°	24.0	24.9	25.7	24.9	25.7	24.9	24.0	24.9	23.2	22.4	21.5
92.5°	44.7	42.1	43.0	41.4	43.0	42.1	44.7	46.2	50.7	57.4	72.3
95°	116.9	109.2	103.1	99.7	103.1	109.2	116.9	133.2	164.2	209.7	309.4
97.5°	340.7	302.0	278.8	271.4	278.8	302.0	340.7	404.1	506.9	617.8	771.3
100°	634.3	571.5	538.0	538.9	538.0	571.5	634.3	721.1	843.1	943.7	1013.3
102.5°	887.9	838.3	810.3	790.5	810.3	838.3	887.9	955.5	1032.9	1091.5	1093.7
105°	1157.6	1125.0	1097.5	1093.2	1097.5	1125.0	1157.6	1197.2	1219.5	1203.2	1117.2
107.5°	1295.7	1284.7	1275.4	1267.5	1275.4	1284.7	1295.7	1295.0	1264.4	1189.1	1049.6
110°	1335.6	1342.5	1340.7	1339.0	1340.7	1342.5	1335.6	1311.5	1251.3	1143.1	984.9



TEST NUMBER: P332074-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1325.3	1346.5	1353.1	1353.4	1353.1	1346.5	1325.3	1281.3	1203.9	1082.5	920.9
115°	1270.2	1308.0	1325.3	1329.6	1325.3	1308.0	1270.2	1205.7	1112.1	985.8	836.2
117.5°	1179.7	1223.0	1247.8	1253.5	1247.8	1223.0	1179.7	1112.4	1017.4	904.0	774.9
120°	1116.4	1164.5	1185.2	1190.3	1185.2	1164.5	1116.4	1048.5	961.7	858.6	742.5
122.5°	1058.7	1102.0	1124.6	1131.2	1124.6	1102.0	1058.7	998.3	917.7	822.2	717.1
125°	983.2	1021.0	1042.5	1048.5	1042.5	1021.0	983.2	928.2	859.5	777.0	683.3
127.5°	923.2	955.5	974.9	980.4	974.9	955.5	923.2	874.2	811.7	737.2	653.7
130°	886.1	917.1	935.0	941.9	935.0	917.1	886.1	840.5	782.0	712.5	635.2
132.5°	852.4	883.3	899.3	904.1	899.3	883.3	852.4	809.6	753.9	689.1	617.9
135°	802.7	828.5	844.0	850.0	844.0	828.5	802.7	760.6	711.6	655.7	594.7
137.5°	749.6	775.8	788.8	792.7	788.8	775.8	749.6	714.2	671.8	623.6	573.6
140°	715.9	739.9	753.7	752.9	753.7	739.9	715.9	683.3	646.3	605.0	561.2
142.5°	682.9	704.2	716.6	715.7	716.6	704.2	682.9	655.0	622.9	587.2	549.5
145°	637.7	655.7	662.6	664.3	662.6	655.7	637.7	616.2	591.2	563.8	535.5
147.5°	602.6	614.8	621.4	622.1	621.4	614.8	602.6	586.3	568.6	546.4	523.9
150°	582.7	592.1	597.3	597.3	597.3	592.1	582.7	569.8	553.5	535.5	515.7
152.5°	564.8	573.6	576.7	576.7	576.7	573.6	564.8	554.7	541.1	525.1	508.1
155°	541.5	548.3	550.0	550.9	550.0	548.3	541.5	533.7	523.4	510.5	496.7
157.5°	521.0	526.2	527.5	527.4	527.5	526.2	521.0	514.3	506.2	496.2	484.7
160°	507.9	513.1	513.1	512.2	513.1	513.1	507.9	501.9	495.8	487.3	477.9
162.5°	494.9	499.3	499.3	498.4	499.3	499.3	494.9	490.9	485.6	477.7	469.6
165°	477.9	481.3	480.4	480.4	480.4	481.3	477.9	474.4	470.1	464.1	458.9
167.5°	461.7	464.1	463.2	463.2	463.2	464.1	461.7	460.1	457.0	453.6	449.6
170°	452.0	453.7	452.9	452.9	452.9	453.7	452.0	451.2	449.4	446.1	443.5
172.5°	443.8	445.6	444.0	443.3	444.0	445.6	443.8	443.7	442.6	439.9	438.0
175°	433.2	434.0	433.2	432.3	433.2	434.0	433.2	433.2	433.2	431.4	430.6
177.5°	426.6	427.3	425.9	425.9	425.9	427.3	426.6	427.3	427.3	426.6	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332074-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1339.3	1339.3	1349.5	1356.1	1364.2	1369.6	1373.4	1377.2	1383.7	1392.3	1402.1
5°	1262.7	1265.4	1280.3	1295.2	1309.4	1321.5	1331.7	1343.8	1358.7	1377.0	1397.3
7.5°	1188.5	1198.9	1213.9	1232.1	1252.0	1269.7	1287.7	1307.8	1328.7	1355.6	1384.1
10°	1140.9	1152.4	1170.6	1193.7	1214.6	1235.6	1257.9	1279.6	1306.0	1337.8	1374.3
12.5°	1099.2	1110.2	1128.9	1154.2	1174.1	1197.2	1222.8	1250.9	1280.6	1318.9	1360.3
15°	1041.4	1054.3	1077.3	1089.4	1119.9	1147.6	1171.3	1211.9	1249.8	1289.1	1337.1
17.5°	994.0	1001.2	1019.9	1042.5	1065.2	1096.3	1127.3	1161.1	1198.9	1247.0	1307.1
20°	961.6	967.7	987.9	1011.7	1036.0	1064.5	1092.2	1126.0	1168.6	1219.3	1284.4
22.5°	937.2	943.8	957.1	982.4	1005.1	1028.7	1056.4	1096.7	1142.1	1191.8	1262.1
25°	902.0	906.0	914.9	935.1	955.5	981.9	1006.3	1044.1	1090.8	1149.0	1219.3
27.5°	868.6	872.5	879.9	894.4	913.3	934.8	961.3	993.5	1040.9	1104.1	1178.8
30°	848.5	849.2	856.0	869.5	885.8	903.4	927.7	964.2	1008.9	1073.2	1151.7
32.5°	831.2	828.6	833.3	843.5	859.3	876.8	896.9	932.9	975.9	1039.1	1119.7
35°	801.8	800.5	798.5	807.3	820.8	834.3	852.0	879.0	927.7	986.6	1071.2
37.5°	772.0	768.7	765.1	769.1	779.6	793.8	809.0	833.1	875.1	939.9	1020.8
40°	749.8	747.1	745.0	743.6	753.1	766.6	778.2	801.2	840.4	902.0	981.9
42.5°	725.4	723.8	721.2	719.3	727.2	737.4	749.5	769.8	809.0	866.9	942.4
45°	686.1	684.8	683.5	682.1	686.8	696.3	705.8	720.7	754.5	810.6	879.0
47.5°	642.5	640.7	641.2	639.0	643.7	650.1	656.7	672.6	705.1	750.4	800.4
50°	611.1	610.4	610.4	610.4	611.7	619.1	625.3	637.4	667.2	712.6	748.4
52.5°	581.3	578.4	578.4	579.5	581.9	586.7	590.6	603.9	629.8	667.1	699.6
55°	534.6	529.2	527.8	529.2	531.2	535.3	539.3	550.2	572.5	600.2	619.1
57.5°	482.8	479.9	478.1	478.4	479.5	482.8	485.9	497.7	515.2	529.7	541.9
60°	446.6	448.0	441.9	443.2	443.2	445.9	450.6	458.1	473.0	483.1	495.3
62.5°	412.5	410.6	408.9	407.0	407.0	408.0	414.4	420.3	432.9	438.2	447.7
65°	359.3	359.3	355.2	356.6	357.3	352.6	355.9	362.7	370.8	372.8	381.7
67.5°	305.5	303.6	301.3	299.2	299.2	298.9	300.6	303.9	310.0	310.7	317.5
70°	268.6	267.3	266.7	264.6	261.9	265.3	263.2	266.7	270.0	270.7	274.7
72.5°	232.9	231.5	230.3	228.3	227.2	226.8	227.0	230.9	233.2	232.2	236.9
75°	182.0	180.6	179.3	175.9	175.9	173.9	174.6	177.3	180.0	178.0	182.0
77.5°	133.7	129.5	129.2	130.2	127.9	128.3	127.5	127.1	128.3	128.5	132.1
80°	102.9	98.2	99.4	98.8	98.2	97.5	96.1	96.8	97.5	98.2	100.1
82.5°	74.1	73.8	72.4	72.2	71.6	69.8	69.1	70.3	70.9	70.5	72.0
85°	37.9	35.9	37.2	36.5	37.2	36.5	34.5	34.5	35.9	35.2	36.5
87.5°	15.5	15.7	14.6	14.6	13.6	13.6	12.7	12.9	12.9	12.6	13.3
90°	20.7	21.5	18.9	16.4	13.8	11.2	9.5	7.7	5.2	3.4	1.7
92.5°	99.7	132.2	145.4	109.2	72.2	49.7	36.9	29.7	23.1	15.8	10.7
95°	413.4	509.6	453.7	312.8	184.8	111.8	78.2	55.9	41.2	31.8	29.2
97.5°	845.0	789.8	578.2	343.3	198.9	129.1	92.8	70.8	58.1	50.7	49.9
100°	983.2	813.9	550.0	324.0	196.8	136.6	103.1	82.5	70.5	64.5	63.6
102.5°	990.1	769.2	508.8	307.5	199.6	145.6	114.9	96.3	84.9	79.6	78.0
105°	937.6	691.0	458.1	295.7	207.2	160.7	134.1	117.8	107.5	102.3	99.7
107.5°	845.8	621.9	425.8	294.8	221.2	180.5	155.8	140.4	130.3	125.3	122.7
110°	788.1	582.7	413.4	298.3	232.9	194.2	170.1	155.6	146.1	141.8	139.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	737.9	556.6	406.5	305.1	244.6	208.7	185.3	170.7	161.3	157.0	154.4
115°	677.3	528.6	403.9	316.2	263.8	231.2	208.0	193.4	184.8	179.6	176.2
117.5°	640.6	512.0	405.4	331.1	284.3	252.0	230.5	214.1	206.3	202.0	198.0
120°	621.4	504.5	408.2	342.1	297.4	266.4	245.0	228.6	220.0	215.7	213.1
122.5°	605.5	499.6	413.0	352.4	311.1	280.9	258.0	242.4	233.1	228.8	226.2
125°	585.3	493.4	420.3	368.7	330.9	300.8	277.6	261.2	251.8	246.7	245.0
127.5°	567.4	490.3	428.5	382.1	348.1	319.0	295.8	277.8	268.1	261.7	259.2
130°	557.8	488.2	434.0	391.1	358.3	330.0	306.8	288.8	278.4	270.7	268.1
132.5°	548.8	487.5	438.2	399.3	367.3	339.7	317.1	299.1	286.7	278.3	275.0
135°	537.2	486.5	444.4	409.9	380.7	354.0	330.9	312.8	300.0	290.5	287.1
137.5°	527.0	484.6	448.4	417.8	390.0	364.4	342.9	325.0	311.3	302.0	298.4
140°	520.8	483.9	451.2	422.0	396.2	371.3	349.8	332.6	318.8	310.2	306.0
142.5°	515.3	482.5	453.2	426.1	401.1	376.8	356.6	339.5	327.1	317.8	314.2
145°	507.9	480.4	454.6	430.6	407.3	385.0	365.2	350.7	337.8	330.0	327.4
147.5°	500.7	477.2	454.6	433.3	412.5	392.1	375.2	361.1	350.0	342.4	340.9
150°	495.8	474.4	454.6	434.0	415.9	396.2	380.7	368.7	357.5	350.7	349.8
152.5°	490.4	471.0	452.5	435.4	418.0	401.1	386.2	375.6	365.8	358.9	358.7
155°	482.2	464.9	450.3	435.8	422.0	407.3	395.4	385.9	377.3	372.1	372.1
157.5°	472.9	459.6	447.5	436.6	424.2	412.5	403.2	395.2	387.6	383.5	382.8
160°	466.7	455.5	446.1	436.6	426.3	415.9	407.3	401.3	394.5	391.1	391.1
162.5°	460.5	451.3	443.3	435.9	427.0	418.0	410.8	405.4	400.0	397.3	397.3
165°	452.0	445.2	439.2	434.0	428.0	421.1	415.1	411.6	407.3	405.6	406.5
167.5°	444.0	439.0	435.1	432.7	427.8	422.8	419.0	416.6	413.4	412.5	413.5
170°	439.2	434.9	432.3	430.6	427.1	422.8	421.1	419.4	416.8	415.9	417.7
172.5°	434.4	431.4	430.2	429.9	427.1	423.5	422.5	421.5	419.6	419.4	420.4
175°	428.9	427.1	427.1	428.0	426.3	424.6	423.7	423.7	422.0	422.8	423.7
177.5°	425.2	424.6	425.2	426.6	425.2	424.6	424.6	424.6	423.9	424.6	425.2
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



TEST NUMBER: P332074-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1405.3	1408.0	1417.2	1423.7	1431.3	1435.6	1439.9	1443.2	1447.5	1448.6	1464.3
5°	1411.5	1425.1	1448.8	1466.4	1488.0	1511.7	1527.9	1535.4	1555.0	1571.2	1603.7
7.5°	1409.8	1438.6	1474.4	1511.4	1551.2	1588.0	1620.0	1657.9	1684.8	1725.3	1765.2
10°	1408.2	1446.7	1492.7	1540.2	1595.6	1647.0	1693.1	1744.5	1787.1	1843.2	1891.3
12.5°	1403.3	1450.0	1513.9	1569.9	1637.3	1708.2	1776.4	1842.5	1880.3	1973.8	2018.0
15°	1391.3	1446.7	1526.6	1611.9	1704.5	1788.5	1875.1	1944.1	2055.7	2137.6	2189.7
17.5°	1368.2	1446.0	1540.7	1643.5	1756.3	1866.8	1965.0	2069.7	2188.1	2287.2	2392.7
20°	1357.5	1442.7	1548.3	1661.9	1779.0	1904.2	2015.9	2141.7	2271.0	2368.4	2503.7
22.5°	1337.4	1434.0	1547.7	1674.4	1799.6	1929.1	2059.7	2186.6	2335.9	2470.1	2599.0
25°	1304.7	1412.9	1530.7	1672.1	1818.9	1948.9	2105.1	2273.6	2429.3	2601.9	2730.4
27.5°	1270.2	1385.9	1503.8	1635.4	1793.3	1947.5	2144.1	2334.5	2524.8	2673.8	2769.0
30°	1243.7	1356.1	1477.9	1610.5	1766.8	1950.2	2170.1	2377.8	2563.3	2691.1	2744.6
32.5°	1215.0	1329.0	1436.8	1575.9	1742.4	1948.5	2186.3	2403.3	2565.4	2650.6	2640.2
35°	1170.0	1265.4	1370.3	1504.3	1700.5	1936.6	2195.8	2405.5	2505.1	2486.8	2348.7
37.5°	1105.0	1185.3	1288.6	1435.2	1651.7	1911.6	2176.9	2334.3	2327.8	2179.0	1979.0
40°	1064.5	1132.7	1232.3	1386.6	1613.9	1895.4	2147.1	2249.3	2162.7	1954.9	1715.4
42.5°	1011.3	1074.3	1173.8	1332.4	1572.2	1862.3	2090.2	2119.9	1950.4	1711.3	1491.8
45°	929.1	984.6	1087.4	1251.2	1509.7	1790.4	1951.5	1879.1	1651.1	1404.1	1237.0
47.5°	840.7	898.4	997.3	1165.5	1419.3	1682.4	1759.1	1605.1	1371.0	1170.6	1017.2
50°	785.0	840.4	937.2	1107.1	1358.1	1593.5	1625.4	1426.4	1211.3	1035.4	909.5
52.5°	728.7	780.9	876.1	1046.4	1286.7	1490.7	1471.1	1268.3	1070.5	920.6	821.7
55°	644.9	694.3	785.0	944.6	1163.2	1324.9	1253.9	1060.3	896.6	780.2	705.1
57.5°	569.9	617.3	695.5	839.7	1029.8	1140.9	1050.5	887.4	757.2	667.6	611.6
60°	519.0	560.9	635.4	769.4	934.5	1019.1	929.8	785.7	676.0	604.2	554.2
62.5°	470.8	507.4	576.4	697.9	841.4	912.4	822.0	700.1	606.7	543.1	500.6
65°	397.9	431.0	492.0	586.7	704.4	751.8	674.0	575.1	502.7	455.4	427.0
67.5°	331.3	359.5	412.1	486.6	573.3	607.8	548.5	472.1	417.5	379.4	356.9
70°	286.9	311.3	352.6	416.8	495.3	521.7	466.2	403.3	363.3	332.9	311.9
72.5°	249.5	267.4	304.9	354.6	420.1	441.1	402.3	347.0	309.8	286.9	270.3
75°	190.1	205.0	229.4	269.3	314.7	326.8	297.7	263.2	238.2	222.0	209.1
77.5°	137.1	148.1	165.7	190.3	221.7	232.6	214.2	191.2	173.0	162.0	154.8
80°	103.5	112.4	127.3	147.5	166.4	172.5	161.7	144.1	131.3	125.2	119.1
82.5°	76.5	81.5	90.4	104.2	117.2	124.4	115.2	104.6	97.7	92.1	89.9
85°	38.6	41.2	45.4	50.7	58.9	61.6	58.2	55.4	51.4	48.0	48.0
87.5°	14.7	15.1	17.2	18.7	21.2	23.3	23.3	22.7	22.7	22.0	21.6
90°	3.4	5.2	7.7	9.5	11.2	13.8	16.4	18.9	21.5	20.7	21.5
92.5°	15.8	23.1	29.7	36.9	49.7	72.2	109.2	145.4	132.2	99.7	72.3
95°	31.8	41.2	55.9	78.2	111.8	184.8	312.8	453.7	509.6	413.4	309.4
97.5°	50.7	58.1	70.8	92.8	129.1	198.9	343.3	578.2	789.8	845.0	771.3
100°	64.5	70.5	82.5	103.1	136.6	196.8	324.0	550.0	813.9	983.2	1013.3
102.5°	79.6	84.9	96.3	114.9	145.6	199.6	307.5	508.8	769.2	990.1	1093.7
105°	102.3	107.5	117.8	134.1	160.7	207.2	295.7	458.1	691.0	937.6	1117.2
107.5°	125.3	130.3	140.4	155.8	180.5	221.2	294.8	425.8	621.9	845.8	1049.6
110°	141.8	146.1	155.6	170.1	194.2	232.9	298.3	413.4	582.7	788.1	984.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	157.0	161.3	170.7	185.3	208.7	244.6	305.1	406.5	556.6	737.9	920.9
115°	179.6	184.8	193.4	208.0	231.2	263.8	316.2	403.9	528.6	677.3	836.2
117.5°	202.0	206.3	214.1	230.5	252.0	284.3	331.1	405.4	512.0	640.6	774.9
120°	215.7	220.0	228.6	245.0	266.4	297.4	342.1	408.2	504.5	621.4	742.5
122.5°	228.8	233.1	242.4	258.0	280.9	311.1	352.4	413.0	499.6	605.5	717.1
125°	246.7	251.8	261.2	277.6	300.8	330.9	368.7	420.3	493.4	585.3	683.3
127.5°	261.7	268.1	277.8	295.8	319.0	348.1	382.1	428.5	490.3	567.4	653.7
130°	270.7	278.4	288.8	306.8	330.0	358.3	391.1	434.0	488.2	557.8	635.2
132.5°	278.3	286.7	299.1	317.1	339.7	367.3	399.3	438.2	487.5	548.8	617.9
135°	290.5	300.0	312.8	330.9	354.0	380.7	409.9	444.4	486.5	537.2	594.7
137.5°	302.0	311.3	325.0	342.9	364.4	390.0	417.8	448.4	484.6	527.0	573.6
140°	310.2	318.8	332.6	349.8	371.3	396.2	422.0	451.2	483.9	520.8	561.2
142.5°	317.8	327.1	339.5	356.6	376.8	401.1	426.1	453.2	482.5	515.3	549.5
145°	330.0	337.8	350.7	365.2	385.0	407.3	430.6	454.6	480.4	507.9	535.5
147.5°	342.4	350.0	361.1	375.2	392.1	412.5	433.3	454.6	477.2	500.7	523.9
150°	350.7	357.5	368.7	380.7	396.2	415.9	434.0	454.6	474.4	495.8	515.7
152.5°	358.9	365.8	375.6	386.2	401.1	418.0	435.4	452.5	471.0	490.4	508.1
155°	372.1	377.3	385.9	395.4	407.3	422.0	435.8	450.3	464.9	482.2	496.7
157.5°	383.5	387.6	395.2	403.2	412.5	424.2	436.6	447.5	459.6	472.9	484.7
160°	391.1	394.5	401.3	407.3	415.9	426.3	436.6	446.1	455.5	466.7	477.9
162.5°	397.3	400.0	405.4	410.8	418.0	427.0	435.9	443.3	451.3	460.5	469.6
165°	405.6	407.3	411.6	415.1	421.1	428.0	434.0	439.2	445.2	452.0	458.9
167.5°	412.5	413.4	416.6	419.0	422.8	427.8	432.7	435.1	439.0	444.0	449.6
170°	415.9	416.8	419.4	421.1	422.8	427.1	430.6	432.3	434.9	439.2	443.5
172.5°	419.4	419.6	421.5	422.5	423.5	427.1	429.9	430.2	431.4	434.4	438.0
175°	422.8	422.0	423.7	423.7	424.6	426.3	428.0	427.1	427.1	428.9	430.6
177.5°	424.6	423.9	424.6	424.6	424.6	425.2	426.6	425.2	424.6	425.2	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6	424.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1469.7	1470.2	1476.3	1480.6	1478.4	1481.1	1482.2
5°	1605.8	1630.1	1643.0	1652.4	1653.1	1653.8	1659.2
7.5°	1798.6	1824.7	1843.8	1872.8	1881.5	1891.3	1888.4
10°	1939.4	1977.9	2011.1	2028.7	2047.6	2075.4	2053.1
12.5°	2070.9	2139.2	2189.7	2217.1	2234.9	2240.5	2229.6
15°	2287.8	2377.1	2425.2	2423.9	2484.8	2511.2	2469.9
17.5°	2486.8	2569.2	2635.3	2669.1	2719.8	2731.1	2725.9
20°	2608.6	2698.6	2750.0	2808.2	2834.6	2858.3	2862.3
22.5°	2713.6	2794.4	2849.7	2898.0	2920.2	2931.4	2938.2
25°	2821.8	2885.4	2918.5	2935.4	2941.5	2940.1	2931.4
27.5°	2814.3	2819.2	2782.7	2746.8	2714.7	2678.6	2666.1
30°	2741.3	2684.3	2582.9	2525.4	2440.8	2373.8	2400.8
32.5°	2549.1	2435.9	2321.9	2196.2	2092.1	2062.5	2032.7
35°	2175.5	1976.6	1860.2	1724.8	1670.7	1616.6	1579.3
37.5°	1760.1	1606.2	1468.1	1379.6	1325.3	1291.1	1272.7
40°	1521.8	1383.1	1269.5	1197.7	1156.4	1117.8	1112.5
42.5°	1331.9	1202.9	1117.3	1060.2	1020.5	1004.2	992.3
45°	1090.8	1000.8	943.3	902.7	876.3	866.2	852.6
47.5°	923.3	859.6	816.5	788.8	769.0	761.4	760.3
50°	829.6	776.8	745.0	723.3	707.8	705.1	694.3
52.5°	759.2	713.5	688.7	669.8	658.6	651.0	647.7
55°	659.1	628.6	606.3	595.5	586.7	579.2	579.2
57.5°	576.7	551.2	536.5	527.3	524.5	519.3	515.9
60°	525.8	504.1	492.7	484.5	479.1	479.7	473.6
62.5°	476.0	461.9	450.9	442.8	436.4	436.4	436.9
65°	405.4	394.5	386.4	383.7	379.6	374.9	376.3
67.5°	343.5	333.3	327.0	322.4	321.0	318.5	322.4
70°	299.1	291.6	286.9	282.8	281.5	282.1	285.6
72.5°	258.5	253.2	250.1	248.2	245.2	245.4	247.6
75°	203.0	199.0	196.2	194.2	193.6	193.6	193.6
77.5°	149.1	148.2	147.0	144.0	144.1	144.9	145.1
80°	117.8	115.7	115.0	113.7	111.7	110.3	113.7
82.5°	88.0	85.9	85.2	85.0	81.9	81.6	84.5
85°	47.4	45.4	46.0	45.4	45.4	44.7	44.7
87.5°	21.3	20.9	20.7	21.1	20.7	20.3	21.3
90°	22.4	23.2	24.9	24.0	24.9	25.7	24.9
92.5°	57.4	50.7	46.2	44.7	42.1	43.0	41.4
95°	209.7	164.2	133.2	116.9	109.2	103.1	99.7
97.5°	617.8	506.9	404.1	340.7	302.0	278.8	271.4
100°	943.7	843.1	721.1	634.3	571.5	538.0	538.9
102.5°	1091.5	1032.9	955.5	887.9	838.3	810.3	790.5
105°	1203.2	1219.5	1197.2	1157.6	1125.0	1097.5	1093.2
107.5°	1189.1	1264.4	1295.0	1295.7	1284.7	1275.4	1267.5
110°	1143.1	1251.3	1311.5	1335.6	1342.5	1340.7	1339.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1082.5	1203.9	1281.3	1325.3	1346.5	1353.1	1353.4
115°	985.8	1112.1	1205.7	1270.2	1308.0	1325.3	1329.6
117.5°	904.0	1017.4	1112.4	1179.7	1223.0	1247.8	1253.5
120°	858.6	961.7	1048.5	1116.4	1164.5	1185.2	1190.3
122.5°	822.2	917.7	998.3	1058.7	1102.0	1124.6	1131.2
125°	777.0	859.5	928.2	983.2	1021.0	1042.5	1048.5
127.5°	737.2	811.7	874.2	923.2	955.5	974.9	980.4
130°	712.5	782.0	840.5	886.1	917.1	935.0	941.9
132.5°	689.1	753.9	809.6	852.4	883.3	899.3	904.1
135°	655.7	711.6	760.6	802.7	828.5	844.0	850.0
137.5°	623.6	671.8	714.2	749.6	775.8	788.8	792.7
140°	605.0	646.3	683.3	715.9	739.9	753.7	752.9
142.5°	587.2	622.9	655.0	682.9	704.2	716.6	715.7
145°	563.8	591.2	616.2	637.7	655.7	662.6	664.3
147.5°	546.4	568.6	586.3	602.6	614.8	621.4	622.1
150°	535.5	553.5	569.8	582.7	592.1	597.3	597.3
152.5°	525.1	541.1	554.7	564.8	573.6	576.7	576.7
155°	510.5	523.4	533.7	541.5	548.3	550.0	550.9
157.5°	496.2	506.2	514.3	521.0	526.2	527.5	527.4
160°	487.3	495.8	501.9	507.9	513.1	513.1	512.2
162.5°	477.7	485.6	490.9	494.9	499.3	499.3	498.4
165°	464.1	470.1	474.4	477.9	481.3	480.4	480.4
167.5°	453.6	457.0	460.1	461.7	464.1	463.2	463.2
170°	446.1	449.4	451.2	452.0	453.7	452.9	452.9
172.5°	439.9	442.6	443.7	443.8	445.6	444.0	443.3
175°	431.4	433.2	433.2	433.2	434.0	433.2	432.3
177.5°	426.6	427.3	427.3	426.6	427.3	425.9	425.9
180°	424.6	424.6	424.6	424.6	424.6	424.6	424.6

(END OF REPORT)