

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332029-840

Luminaire Tested: **S123DIP-S1000D1025U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332029-840
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-S1000D1025U840-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8031.3 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

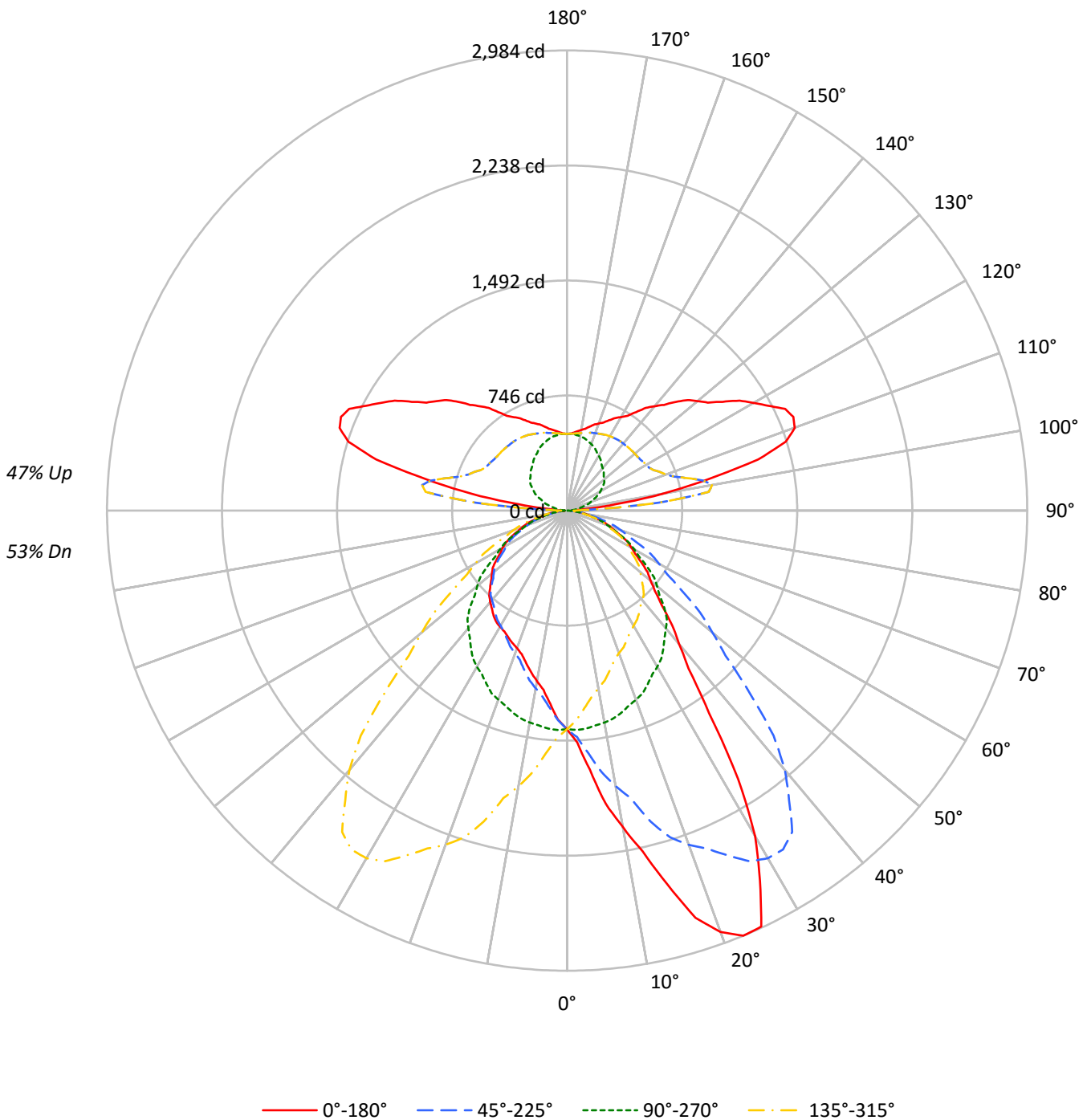
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	85	82	75	73	71	64	62	60	53	52	51	46
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	60	54	48	52	47	43	45	40	37	37	34	32	28
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	28	33	29	25	28	25	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.7
10°-20°	448.0	5.6
20°-30°	751.9	9.4
30°-40°	851.4	10.6
40°-50°	763.5	9.5
50°-60°	616.1	7.7
60°-70°	429.4	5.3
70°-80°	225.7	2.8
80°-90°	59.0	0.7
90°-100°	277.1	3.5
100°-110°	784.7	9.8
110°-120°	771.9	9.6
120°-130°	615.7	7.7
130°-140°	485.5	6.0
140°-150°	362.3	4.5
150°-160°	252.5	3.1
160°-170°	148.4	1.8
170°-180°	48.3	0.6
0°-30°	1339.7	16.7
0°-40°	2191.1	27.3
0°-60°	3570.7	44.5
0°-90°	4284.8	53.4
90°-120°	1833.8	22.8
90°-150°	3297.3	41.1
90°-180°	3746.0	46.6
0°-180°	8031.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	54
90°	29	2	29	2	29	18
95°	117	34	117	34	117	211
105°	1282	117	1282	117	1282	1265
115°	1559	207	1559	207	1559	1515
125°	1230	287	1230	287	1230	1115
135°	997	337	997	337	997	773
145°	779	384	779	384	779	496
155°	646	436	646	436	646	301
165°	564	477	564	477	564	161
175°	507	497	507	497	507	49
180°	498	498	498	498	498	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	22.3	21.4	21.8	22.1	21.8	21.9	22.3	22.6	23.0	23.7	23.6
90°	29.2	30.2	29.2	28.2	29.2	27.3	26.3	25.2	24.2	25.2	22.2
92.5°	48.6	50.4	49.4	52.4	54.2	59.5	67.4	84.8	116.9	155.0	170.6
95°	116.9	121.0	128.1	137.1	156.2	192.6	246.0	362.8	484.8	597.7	532.2
97.5°	318.3	327.0	354.3	399.6	473.9	594.5	724.6	904.6	991.1	926.3	678.2
100°	632.1	631.1	670.3	744.0	845.8	988.9	1106.8	1188.5	1153.2	954.6	645.1
102.5°	927.2	950.4	983.2	1041.5	1120.7	1211.4	1280.2	1282.8	1161.2	902.2	596.7
105°	1282.2	1287.3	1319.5	1357.8	1404.2	1430.4	1411.3	1310.4	1099.7	810.4	537.2
107.5°	1486.6	1495.9	1506.8	1519.7	1518.9	1483.0	1394.7	1231.0	992.1	729.4	499.4
110°	1570.5	1572.6	1574.6	1566.5	1538.2	1467.6	1340.7	1155.2	924.3	683.5	484.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1587.4	1587.0	1579.3	1554.4	1502.8	1412.0	1269.7	1080.2	865.5	652.8	476.8
115°	1559.4	1554.4	1534.2	1489.9	1414.2	1304.3	1156.2	980.8	794.4	620.0	473.7
117.5°	1470.3	1463.5	1434.4	1383.6	1304.7	1193.3	1060.3	908.9	751.3	600.6	475.5
120°	1396.1	1390.1	1365.8	1309.4	1229.8	1128.0	1007.0	870.9	728.8	591.7	478.8
122.5°	1326.8	1319.1	1292.5	1241.7	1170.9	1076.4	964.3	841.1	710.2	586.0	484.4
125°	1229.8	1222.7	1197.5	1153.2	1088.6	1008.0	911.3	801.4	686.5	578.7	492.9
127.5°	1149.9	1143.5	1120.7	1082.8	1025.3	952.0	864.6	766.7	665.5	575.0	502.6
130°	1104.8	1096.7	1075.6	1039.3	985.8	917.3	835.7	745.0	654.2	572.6	509.1
132.5°	1060.5	1054.8	1036.0	999.8	949.6	884.2	808.2	724.8	643.7	571.8	513.9
135°	996.9	989.9	971.7	941.5	892.1	834.7	769.1	697.5	630.1	570.6	521.2
137.5°	929.8	925.1	909.9	879.2	837.7	787.9	731.4	672.8	618.1	568.4	525.9
140°	883.0	884.0	867.9	839.7	801.4	758.0	709.6	658.2	610.9	567.5	529.2
142.5°	839.5	840.5	826.0	801.0	768.3	730.6	688.7	644.5	604.4	565.9	531.6
145°	779.2	777.2	769.1	747.9	722.8	693.5	661.3	628.0	595.7	563.5	533.2
147.5°	729.6	728.8	721.1	706.8	687.7	666.9	640.9	614.5	587.2	559.7	533.2
150°	700.5	700.5	694.5	683.5	668.3	649.1	628.0	604.8	581.6	556.4	533.2
152.5°	676.4	676.4	672.8	662.5	650.6	634.7	615.9	595.9	575.2	552.4	530.8
155°	646.1	645.1	643.1	635.1	626.0	613.9	598.7	582.6	565.5	545.3	528.2
157.5°	618.5	618.7	617.1	611.1	603.2	593.7	582.0	568.6	554.6	539.1	524.8
160°	600.8	601.8	601.8	595.7	588.7	581.6	571.6	560.5	547.3	534.2	523.2
162.5°	584.6	585.6	585.6	580.5	575.8	569.6	560.3	550.8	540.1	529.4	520.0
165°	563.5	563.5	564.5	560.5	556.4	551.4	544.3	538.3	530.2	522.2	515.1
167.5°	543.3	543.3	544.3	541.5	539.7	536.0	532.0	527.4	520.8	514.9	510.3
170°	531.2	531.2	532.2	530.2	529.2	527.1	523.2	520.2	515.1	510.1	507.1
172.5°	520.0	520.8	522.6	520.6	520.4	519.2	515.9	513.7	509.5	506.0	504.6
175°	507.1	508.1	509.1	508.1	508.1	508.1	506.0	505.0	503.0	501.0	501.0
177.5°	499.6	499.6	501.2	500.4	501.2	501.2	500.4	499.6	498.8	498.0	498.8
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	24.1	24.1	21.8	19.3	17.8	15.6	15.1	13.6	12.9	13.3	13.3
90°	19.2	16.2	13.1	11.1	9.1	6.1	4.0	2.0	4.0	6.1	9.1
92.5°	128.1	84.6	58.3	43.3	34.8	27.1	18.6	12.5	18.6	27.1	34.8
95°	366.9	216.7	131.1	91.7	65.5	48.4	37.3	34.2	37.3	48.4	65.5
97.5°	402.6	233.3	151.4	108.9	83.0	68.2	59.5	58.5	59.5	68.2	83.0
100°	380.0	230.9	160.3	121.0	96.7	82.7	75.6	74.6	75.6	82.7	96.7
102.5°	360.6	234.1	170.8	134.7	112.9	99.6	93.3	91.5	93.3	99.6	112.9
105°	346.8	243.0	188.5	157.2	138.1	126.0	120.0	116.9	120.0	126.0	138.1
107.5°	345.8	259.4	211.7	182.7	164.7	152.8	146.9	143.9	146.9	152.8	164.7
110°	349.8	273.2	227.8	199.5	182.5	171.4	166.3	163.3	166.3	171.4	182.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	357.9	286.9	244.8	217.3	200.2	189.1	184.1	181.1	184.1	189.1	200.2
115°	370.9	309.4	271.1	244.0	226.8	216.7	210.7	206.6	210.7	216.7	226.8
117.5°	388.3	333.5	295.6	270.3	251.2	242.0	236.9	232.3	236.9	242.0	251.2
120°	401.2	348.8	312.5	287.3	268.1	258.0	253.0	249.9	253.0	258.0	268.1
122.5°	413.3	364.9	329.4	302.7	284.3	273.4	268.3	265.3	268.3	273.4	284.3
125°	432.4	388.1	352.8	325.6	306.4	295.4	289.3	287.3	289.3	295.4	306.4
127.5°	448.2	408.3	374.2	347.0	325.8	314.5	307.0	304.1	307.0	314.5	325.8
130°	458.7	420.3	387.1	359.8	338.7	326.6	317.5	314.5	317.5	326.6	338.7
132.5°	468.4	430.8	398.4	371.9	350.8	336.3	326.4	322.6	326.4	336.3	350.8
135°	480.8	446.6	415.3	388.1	366.9	351.8	340.7	336.7	340.7	351.8	366.9
137.5°	490.1	457.5	427.4	402.2	381.2	365.1	354.3	350.0	354.3	365.1	381.2
140°	494.9	464.7	435.5	410.3	390.1	374.0	363.9	358.9	363.9	374.0	390.1
142.5°	499.8	470.4	441.9	418.3	398.2	383.6	372.7	368.5	372.7	383.6	398.2
145°	505.0	477.8	451.6	428.4	411.3	396.2	387.1	384.1	387.1	396.2	411.3
147.5°	508.3	483.8	459.9	440.1	423.5	410.5	401.6	399.8	401.6	410.5	423.5
150°	509.1	487.9	464.7	446.6	432.4	419.3	411.3	410.3	411.3	419.3	432.4
152.5°	510.7	490.3	470.4	453.0	440.5	429.0	420.9	420.7	420.9	429.0	440.5
155°	511.1	494.9	477.8	463.7	452.6	442.5	436.5	436.5	436.5	442.5	452.6
157.5°	512.1	497.6	483.8	472.9	463.5	454.6	449.8	449.0	449.8	454.6	463.5
160°	512.1	500.0	487.9	477.8	470.7	462.7	458.7	458.7	458.7	462.7	470.7
162.5°	511.3	500.8	490.3	481.8	475.5	469.2	466.0	466.0	466.0	469.2	475.5
165°	509.1	502.0	493.9	486.9	482.8	477.8	475.7	476.8	475.7	477.8	482.8
167.5°	507.5	501.8	495.9	491.5	488.7	484.8	483.8	485.0	483.8	484.8	488.7
170°	505.0	501.0	495.9	493.9	491.9	488.9	487.9	489.9	487.9	488.9	491.9
172.5°	504.2	501.0	496.8	495.5	494.3	492.1	491.9	493.1	491.9	492.1	494.3
175°	502.0	500.0	498.0	497.0	497.0	494.9	495.9	497.0	495.9	494.9	497.0
177.5°	500.4	498.8	498.0	498.0	498.0	497.2	498.0	498.8	498.0	497.2	498.0
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332029-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	13.2	14.1	14.2	15.3	15.5	16.6	16.4	15.5	15.7	17.6	15.8
90°	11.1	13.1	16.2	19.2	22.2	25.2	24.2	25.2	26.3	27.3	29.2
92.5°	43.3	58.3	84.6	128.1	170.6	155.0	116.9	84.8	67.4	59.5	54.2
95°	91.7	131.1	216.7	366.9	532.2	597.7	484.8	362.8	246.0	192.6	156.2
97.5°	108.9	151.4	233.3	402.6	678.2	926.3	991.1	904.6	724.6	594.5	473.9
100°	121.0	160.3	230.9	380.0	645.1	954.6	1153.2	1188.5	1106.8	988.9	845.8
102.5°	134.7	170.8	234.1	360.6	596.7	902.2	1161.2	1282.8	1280.2	1211.4	1120.7
105°	157.2	188.5	243.0	346.8	537.2	810.4	1099.7	1310.4	1411.3	1430.4	1404.2
107.5°	182.7	211.7	259.4	345.8	499.4	729.4	992.1	1231.0	1394.7	1483.0	1518.9
110°	199.5	227.8	273.2	349.8	484.8	683.5	924.3	1155.2	1340.7	1467.6	1538.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.3	244.8	286.9	357.9	476.8	652.8	865.5	1080.2	1269.7	1412.0	1502.8
115°	244.0	271.1	309.4	370.9	473.7	620.0	794.4	980.8	1156.2	1304.3	1414.2
117.5°	270.3	295.6	333.5	388.3	475.5	600.6	751.3	908.9	1060.3	1193.3	1304.7
120°	287.3	312.5	348.8	401.2	478.8	591.7	728.8	870.9	1007.0	1128.0	1229.8
122.5°	302.7	329.4	364.9	413.3	484.4	586.0	710.2	841.1	964.3	1076.4	1170.9
125°	325.6	352.8	388.1	432.4	492.9	578.7	686.5	801.4	911.3	1008.0	1088.6
127.5°	347.0	374.2	408.3	448.2	502.6	575.0	665.5	766.7	864.6	952.0	1025.3
130°	359.8	387.1	420.3	458.7	509.1	572.6	654.2	745.0	835.7	917.3	985.8
132.5°	371.9	398.4	430.8	468.4	513.9	571.8	643.7	724.8	808.2	884.2	949.6
135°	388.1	415.3	446.6	480.8	521.2	570.6	630.1	697.5	769.1	834.7	892.1
137.5°	402.2	427.4	457.5	490.1	525.9	568.4	618.1	672.8	731.4	787.9	837.7
140°	410.3	435.5	464.7	494.9	529.2	567.5	610.9	658.2	709.6	758.0	801.4
142.5°	418.3	441.9	470.4	499.8	531.6	565.9	604.4	644.5	688.7	730.6	768.3
145°	428.4	451.6	477.8	505.0	533.2	563.5	595.7	628.0	661.3	693.5	722.8
147.5°	440.1	459.9	483.8	508.3	533.2	559.7	587.2	614.5	640.9	666.9	687.7
150°	446.6	464.7	487.9	509.1	533.2	556.4	581.6	604.8	628.0	649.1	668.3
152.5°	453.0	470.4	490.3	510.7	530.8	552.4	575.2	595.9	615.9	634.7	650.6
155°	463.7	477.8	494.9	511.1	528.2	545.3	565.5	582.6	598.7	613.9	626.0
157.5°	472.9	483.8	497.6	512.1	524.8	539.1	554.6	568.6	582.0	593.7	603.2
160°	477.8	487.9	500.0	512.1	523.2	534.2	547.3	560.5	571.6	581.6	588.7
162.5°	481.8	490.3	500.8	511.3	520.0	529.4	540.1	550.8	560.3	569.6	575.8
165°	486.9	493.9	502.0	509.1	515.1	522.2	530.2	538.3	544.3	551.4	556.4
167.5°	491.5	495.9	501.8	507.5	510.3	514.9	520.8	527.4	532.0	536.0	539.7
170°	493.9	495.9	501.0	505.0	507.1	510.1	515.1	520.2	523.2	527.1	529.2
172.5°	495.5	496.8	501.0	504.2	504.6	506.0	509.5	513.7	515.9	519.2	520.4
175°	497.0	498.0	500.0	502.0	501.0	501.0	503.0	505.0	506.0	508.1	508.1
177.5°	498.0	498.0	498.8	500.4	498.8	498.0	498.8	499.6	500.4	501.2	501.2
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332029-840

CATALOG NUMBER: S123DIP-S1000D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	15.6	15.8	15.3	14.6	15.3	15.8	15.6	15.8	17.6	15.7	15.5
90°	28.2	29.2	30.2	29.2	30.2	29.2	28.2	29.2	27.3	26.3	25.2
92.5°	52.4	49.4	50.4	48.6	50.4	49.4	52.4	54.2	59.5	67.4	84.8
95°	137.1	128.1	121.0	116.9	121.0	128.1	137.1	156.2	192.6	246.0	362.8
97.5°	399.6	354.3	327.0	318.3	327.0	354.3	399.6	473.9	594.5	724.6	904.6
100°	744.0	670.3	631.1	632.1	631.1	670.3	744.0	845.8	988.9	1106.8	1188.5
102.5°	1041.5	983.2	950.4	927.2	950.4	983.2	1041.5	1120.7	1211.4	1280.2	1282.8
105°	1357.8	1319.5	1287.3	1282.2	1287.3	1319.5	1357.8	1404.2	1430.4	1411.3	1310.4
107.5°	1519.7	1506.8	1495.9	1486.6	1495.9	1506.8	1519.7	1518.9	1483.0	1394.7	1231.0
110°	1566.5	1574.6	1572.6	1570.5	1572.6	1574.6	1566.5	1538.2	1467.6	1340.7	1155.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1554.4	1579.3	1587.0	1587.4	1587.0	1579.3	1554.4	1502.8	1412.0	1269.7	1080.2
115°	1489.9	1534.2	1554.4	1559.4	1554.4	1534.2	1489.9	1414.2	1304.3	1156.2	980.8
117.5°	1383.6	1434.4	1463.5	1470.3	1463.5	1434.4	1383.6	1304.7	1193.3	1060.3	908.9
120°	1309.4	1365.8	1390.1	1396.1	1390.1	1365.8	1309.4	1229.8	1128.0	1007.0	870.9
122.5°	1241.7	1292.5	1319.1	1326.8	1319.1	1292.5	1241.7	1170.9	1076.4	964.3	841.1
125°	1153.2	1197.5	1222.7	1229.8	1222.7	1197.5	1153.2	1088.6	1008.0	911.3	801.4
127.5°	1082.8	1120.7	1143.5	1149.9	1143.5	1120.7	1082.8	1025.3	952.0	864.6	766.7
130°	1039.3	1075.6	1096.7	1104.8	1096.7	1075.6	1039.3	985.8	917.3	835.7	745.0
132.5°	999.8	1036.0	1054.8	1060.5	1054.8	1036.0	999.8	949.6	884.2	808.2	724.8
135°	941.5	971.7	989.9	996.9	989.9	971.7	941.5	892.1	834.7	769.1	697.5
137.5°	879.2	909.9	925.1	929.8	925.1	909.9	879.2	837.7	787.9	731.4	672.8
140°	839.7	867.9	884.0	883.0	884.0	867.9	839.7	801.4	758.0	709.6	658.2
142.5°	801.0	826.0	840.5	839.5	840.5	826.0	801.0	768.3	730.6	688.7	644.5
145°	747.9	769.1	777.2	779.2	777.2	769.1	747.9	722.8	693.5	661.3	628.0
147.5°	706.8	721.1	728.8	729.6	728.8	721.1	706.8	687.7	666.9	640.9	614.5
150°	683.5	694.5	700.5	700.5	700.5	694.5	683.5	668.3	649.1	628.0	604.8
152.5°	662.5	672.8	676.4	676.4	676.4	672.8	662.5	650.6	634.7	615.9	595.9
155°	635.1	643.1	645.1	646.1	645.1	643.1	635.1	626.0	613.9	598.7	582.6
157.5°	611.1	617.1	618.7	618.5	618.7	617.1	611.1	603.2	593.7	582.0	568.6
160°	595.7	601.8	601.8	600.8	601.8	601.8	595.7	588.7	581.6	571.6	560.5
162.5°	580.5	585.6	585.6	584.6	585.6	585.6	580.5	575.8	569.6	560.3	550.8
165°	560.5	564.5	563.5	563.5	563.5	564.5	560.5	556.4	551.4	544.3	538.3
167.5°	541.5	544.3	543.3	543.3	543.3	544.3	541.5	539.7	536.0	532.0	527.4
170°	530.2	532.2	531.2	531.2	531.2	532.2	530.2	529.2	527.1	523.2	520.2
172.5°	520.6	522.6	520.8	520.0	520.8	522.6	520.6	520.4	519.2	515.9	513.7
175°	508.1	509.1	508.1	507.1	508.1	509.1	508.1	508.1	508.1	506.0	505.0
177.5°	500.4	501.2	499.6	499.6	499.6	501.2	500.4	501.2	501.2	500.4	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P332029-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	16.4	16.6	15.5	15.3	14.2	14.1	13.2	13.3	13.3	12.9	13.6
90°	24.2	25.2	22.2	19.2	16.2	13.1	11.1	9.1	6.1	4.0	2.0
92.5°	116.9	155.0	170.6	128.1	84.6	58.3	43.3	34.8	27.1	18.6	12.5
95°	484.8	597.7	532.2	366.9	216.7	131.1	91.7	65.5	48.4	37.3	34.2
97.5°	991.1	926.3	678.2	402.6	233.3	151.4	108.9	83.0	68.2	59.5	58.5
100°	1153.2	954.6	645.1	380.0	230.9	160.3	121.0	96.7	82.7	75.6	74.6
102.5°	1161.2	902.2	596.7	360.6	234.1	170.8	134.7	112.9	99.6	93.3	91.5
105°	1099.7	810.4	537.2	346.8	243.0	188.5	157.2	138.1	126.0	120.0	116.9
107.5°	992.1	729.4	499.4	345.8	259.4	211.7	182.7	164.7	152.8	146.9	143.9
110°	924.3	683.5	484.8	349.8	273.2	227.8	199.5	182.5	171.4	166.3	163.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	865.5	652.8	476.8	357.9	286.9	244.8	217.3	200.2	189.1	184.1	181.1
115°	794.4	620.0	473.7	370.9	309.4	271.1	244.0	226.8	216.7	210.7	206.6
117.5°	751.3	600.6	475.5	388.3	333.5	295.6	270.3	251.2	242.0	236.9	232.3
120°	728.8	591.7	478.8	401.2	348.8	312.5	287.3	268.1	258.0	253.0	249.9
122.5°	710.2	586.0	484.4	413.3	364.9	329.4	302.7	284.3	273.4	268.3	265.3
125°	686.5	578.7	492.9	432.4	388.1	352.8	325.6	306.4	295.4	289.3	287.3
127.5°	665.5	575.0	502.6	448.2	408.3	374.2	347.0	325.8	314.5	307.0	304.1
130°	654.2	572.6	509.1	458.7	420.3	387.1	359.8	338.7	326.6	317.5	314.5
132.5°	643.7	571.8	513.9	468.4	430.8	398.4	371.9	350.8	336.3	326.4	322.6
135°	630.1	570.6	521.2	480.8	446.6	415.3	388.1	366.9	351.8	340.7	336.7
137.5°	618.1	568.4	525.9	490.1	457.5	427.4	402.2	381.2	365.1	354.3	350.0
140°	610.9	567.5	529.2	494.9	464.7	435.5	410.3	390.1	374.0	363.9	358.9
142.5°	604.4	565.9	531.6	499.8	470.4	441.9	418.3	398.2	383.6	372.7	368.5
145°	595.7	563.5	533.2	505.0	477.8	451.6	428.4	411.3	396.2	387.1	384.1
147.5°	587.2	559.7	533.2	508.3	483.8	459.9	440.1	423.5	410.5	401.6	399.8
150°	581.6	556.4	533.2	509.1	487.9	464.7	446.6	432.4	419.3	411.3	410.3
152.5°	575.2	552.4	530.8	510.7	490.3	470.4	453.0	440.5	429.0	420.9	420.7
155°	565.5	545.3	528.2	511.1	494.9	477.8	463.7	452.6	442.5	436.5	436.5
157.5°	554.6	539.1	524.8	512.1	497.6	483.8	472.9	463.5	454.6	449.8	449.0
160°	547.3	534.2	523.2	512.1	500.0	487.9	477.8	470.7	462.7	458.7	458.7
162.5°	540.1	529.4	520.0	511.3	500.8	490.3	481.8	475.5	469.2	466.0	466.0
165°	530.2	522.2	515.1	509.1	502.0	493.9	486.9	482.8	477.8	475.7	476.8
167.5°	520.8	514.9	510.3	507.5	501.8	495.9	491.5	488.7	484.8	483.8	485.0
170°	515.1	510.1	507.1	505.0	501.0	495.9	493.9	491.9	488.9	487.9	489.9
172.5°	509.5	506.0	504.6	504.2	501.0	496.8	495.5	494.3	492.1	491.9	493.1
175°	503.0	501.0	501.0	502.0	500.0	498.0	497.0	497.0	494.9	495.9	497.0
177.5°	498.8	498.0	498.8	500.4	498.8	498.0	498.0	498.0	497.2	498.0	498.8
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	15.1	15.6	17.8	19.3	21.8	24.1	24.1	23.6	23.7	23.0	22.6
90°	4.0	6.1	9.1	11.1	13.1	16.2	19.2	22.2	25.2	24.2	25.2
92.5°	18.6	27.1	34.8	43.3	58.3	84.6	128.1	170.6	155.0	116.9	84.8
95°	37.3	48.4	65.5	91.7	131.1	216.7	366.9	532.2	597.7	484.8	362.8
97.5°	59.5	68.2	83.0	108.9	151.4	233.3	402.6	678.2	926.3	991.1	904.6
100°	75.6	82.7	96.7	121.0	160.3	230.9	380.0	645.1	954.6	1153.2	1188.5
102.5°	93.3	99.6	112.9	134.7	170.8	234.1	360.6	596.7	902.2	1161.2	1282.8
105°	120.0	126.0	138.1	157.2	188.5	243.0	346.8	537.2	810.4	1099.7	1310.4
107.5°	146.9	152.8	164.7	182.7	211.7	259.4	345.8	499.4	729.4	992.1	1231.0
110°	166.3	171.4	182.5	199.5	227.8	273.2	349.8	484.8	683.5	924.3	1155.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	189.1	200.2	217.3	244.8	286.9	357.9	476.8	652.8	865.5	1080.2
115°	210.7	216.7	226.8	244.0	271.1	309.4	370.9	473.7	620.0	794.4	980.8
117.5°	236.9	242.0	251.2	270.3	295.6	333.5	388.3	475.5	600.6	751.3	908.9
120°	253.0	258.0	268.1	287.3	312.5	348.8	401.2	478.8	591.7	728.8	870.9
122.5°	268.3	273.4	284.3	302.7	329.4	364.9	413.3	484.4	586.0	710.2	841.1
125°	289.3	295.4	306.4	325.6	352.8	388.1	432.4	492.9	578.7	686.5	801.4
127.5°	307.0	314.5	325.8	347.0	374.2	408.3	448.2	502.6	575.0	665.5	766.7
130°	317.5	326.6	338.7	359.8	387.1	420.3	458.7	509.1	572.6	654.2	745.0
132.5°	326.4	336.3	350.8	371.9	398.4	430.8	468.4	513.9	571.8	643.7	724.8
135°	340.7	351.8	366.9	388.1	415.3	446.6	480.8	521.2	570.6	630.1	697.5
137.5°	354.3	365.1	381.2	402.2	427.4	457.5	490.1	525.9	568.4	618.1	672.8
140°	363.9	374.0	390.1	410.3	435.5	464.7	494.9	529.2	567.5	610.9	658.2
142.5°	372.7	383.6	398.2	418.3	441.9	470.4	499.8	531.6	565.9	604.4	644.5
145°	387.1	396.2	411.3	428.4	451.6	477.8	505.0	533.2	563.5	595.7	628.0
147.5°	401.6	410.5	423.5	440.1	459.9	483.8	508.3	533.2	559.7	587.2	614.5
150°	411.3	419.3	432.4	446.6	464.7	487.9	509.1	533.2	556.4	581.6	604.8
152.5°	420.9	429.0	440.5	453.0	470.4	490.3	510.7	530.8	552.4	575.2	595.9
155°	436.5	442.5	452.6	463.7	477.8	494.9	511.1	528.2	545.3	565.5	582.6
157.5°	449.8	454.6	463.5	472.9	483.8	497.6	512.1	524.8	539.1	554.6	568.6
160°	458.7	462.7	470.7	477.8	487.9	500.0	512.1	523.2	534.2	547.3	560.5
162.5°	466.0	469.2	475.5	481.8	490.3	500.8	511.3	520.0	529.4	540.1	550.8
165°	475.7	477.8	482.8	486.9	493.9	502.0	509.1	515.1	522.2	530.2	538.3
167.5°	483.8	484.8	488.7	491.5	495.9	501.8	507.5	510.3	514.9	520.8	527.4
170°	487.9	488.9	491.9	493.9	495.9	501.0	505.0	507.1	510.1	515.1	520.2
172.5°	491.9	492.1	494.3	495.5	496.8	501.0	504.2	504.6	506.0	509.5	513.7
175°	495.9	494.9	497.0	497.0	498.0	500.0	502.0	501.0	501.0	503.0	505.0
177.5°	498.0	497.2	498.0	498.0	498.0	498.8	500.4	498.8	498.0	498.8	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	22.3	21.9	21.8	22.1	21.8	21.4	22.3
90°	26.3	27.3	29.2	28.2	29.2	30.2	29.2
92.5°	67.4	59.5	54.2	52.4	49.4	50.4	48.6
95°	246.0	192.6	156.2	137.1	128.1	121.0	116.9
97.5°	724.6	594.5	473.9	399.6	354.3	327.0	318.3
100°	1106.8	988.9	845.8	744.0	670.3	631.1	632.1
102.5°	1280.2	1211.4	1120.7	1041.5	983.2	950.4	927.2
105°	1411.3	1430.4	1404.2	1357.8	1319.5	1287.3	1282.2
107.5°	1394.7	1483.0	1518.9	1519.7	1506.8	1495.9	1486.6
110°	1340.7	1467.6	1538.2	1566.5	1574.6	1572.6	1570.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1269.7	1412.0	1502.8	1554.4	1579.3	1587.0	1587.4
115°	1156.2	1304.3	1414.2	1489.9	1534.2	1554.4	1559.4
117.5°	1060.3	1193.3	1304.7	1383.6	1434.4	1463.5	1470.3
120°	1007.0	1128.0	1229.8	1309.4	1365.8	1390.1	1396.1
122.5°	964.3	1076.4	1170.9	1241.7	1292.5	1319.1	1326.8
125°	911.3	1008.0	1088.6	1153.2	1197.5	1222.7	1229.8
127.5°	864.6	952.0	1025.3	1082.8	1120.7	1143.5	1149.9
130°	835.7	917.3	985.8	1039.3	1075.6	1096.7	1104.8
132.5°	808.2	884.2	949.6	999.8	1036.0	1054.8	1060.5
135°	769.1	834.7	892.1	941.5	971.7	989.9	996.9
137.5°	731.4	787.9	837.7	879.2	909.9	925.1	929.8
140°	709.6	758.0	801.4	839.7	867.9	884.0	883.0
142.5°	688.7	730.6	768.3	801.0	826.0	840.5	839.5
145°	661.3	693.5	722.8	747.9	769.1	777.2	779.2
147.5°	640.9	666.9	687.7	706.8	721.1	728.8	729.6
150°	628.0	649.1	668.3	683.5	694.5	700.5	700.5
152.5°	615.9	634.7	650.6	662.5	672.8	676.4	676.4
155°	598.7	613.9	626.0	635.1	643.1	645.1	646.1
157.5°	582.0	593.7	603.2	611.1	617.1	618.7	618.5
160°	571.6	581.6	588.7	595.7	601.8	601.8	600.8
162.5°	560.3	569.6	575.8	580.5	585.6	585.6	584.6
165°	544.3	551.4	556.4	560.5	564.5	563.5	563.5
167.5°	532.0	536.0	539.7	541.5	544.3	543.3	543.3
170°	523.2	527.1	529.2	530.2	532.2	531.2	531.2
172.5°	515.9	519.2	520.4	520.6	522.6	520.8	520.0
175°	506.0	508.1	508.1	508.1	509.1	508.1	507.1
177.5°	500.4	501.2	501.2	500.4	501.2	499.6	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0

(END OF REPORT)