

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: P332018-840

Luminaire Tested: **S123DIP-S1000D805U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332018-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D805U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7524.6 lumens
Efficiency: N/A
Efficacy: 138.3 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

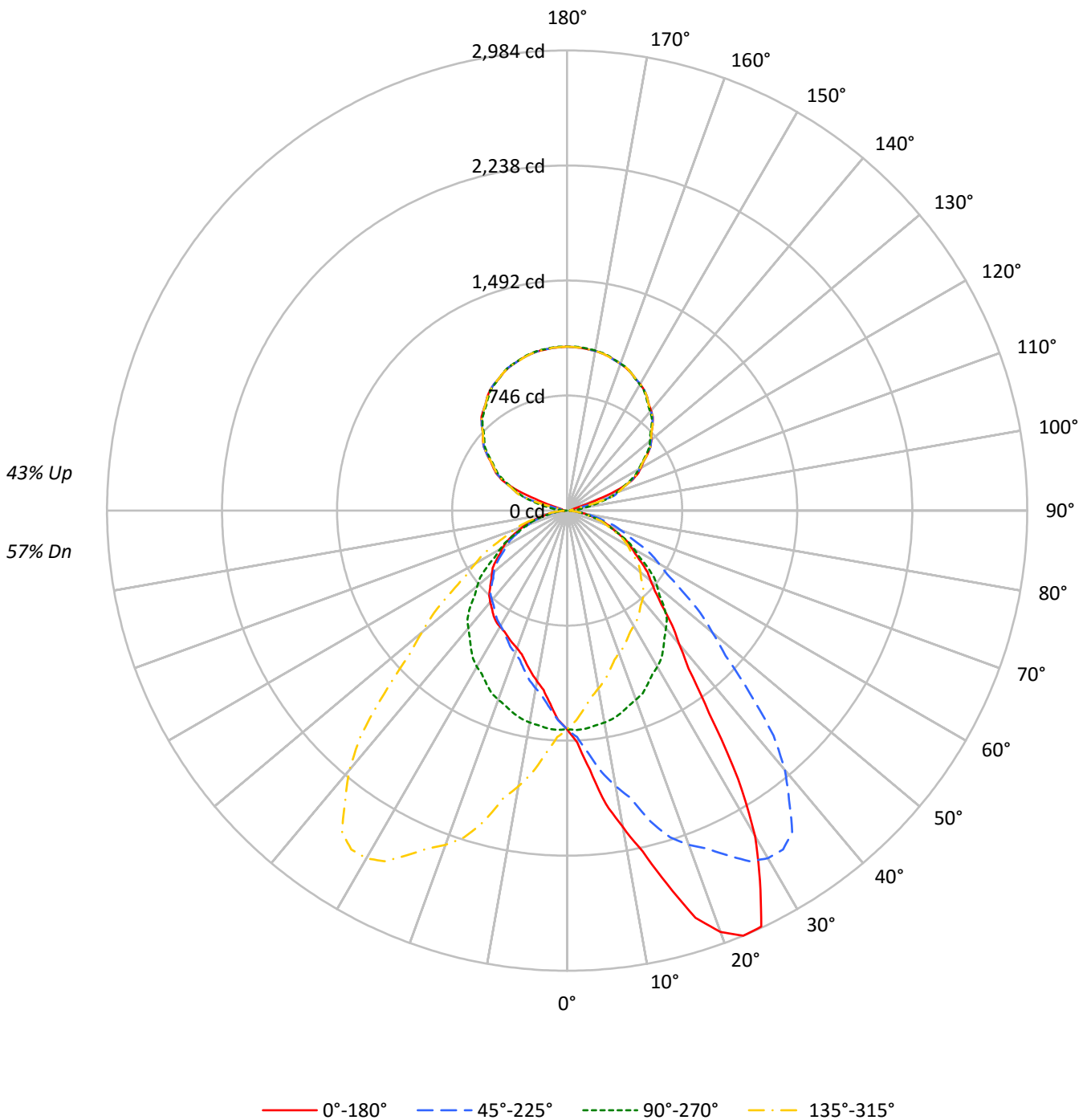
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	54	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	27
6	65	53	44	39	60	49	42	37	43	38	33	38	33	30	32	29	26	23
7	60	48	40	34	56	45	38	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°	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	1.9
10°-20°	448.0	6.0
20°-30°	751.9	10.0
30°-40°	851.4	11.3
40°-50°	763.5	10.1
50°-60°	616.1	8.2
60°-70°	429.4	5.7
70°-80°	225.7	3.0
80°-90°	58.2	0.8
90°-100°	38.6	0.5
100°-110°	184.1	2.4
110°-120°	442.3	5.9
120°-130°	563.2	7.5
130°-140°	601.8	8.0
140°-150°	562.7	7.5
150°-160°	453.9	6.0
160°-170°	293.0	3.9
170°-180°	101.0	1.3
0°-30°	1339.7	17.8
0°-40°	2191.1	29.1
0°-60°	3570.7	47.5
0°-90°	4283.9	56.9
90°-120°	665.1	8.8
90°-150°	2392.8	31.8
90°-180°	3241.0	43.1
0°-180°	7524.6	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°	24	1	24	1	24	13
95°	30	48	30	48	30	25
105°	35	235	35	235	35	79
115°	464	441	464	441	464	429
125°	635	622	635	622	635	567
135°	782	774	782	774	782	603
145°	902	894	902	894	902	563
155°	983	984	983	984	983	453
165°	1036	1038	1036	1038	1036	292
175°	1059	1063	1059	1063	1059	101
180°	1063	1063	1063	1063	1063	



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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°	21.2	20.1	20.5	21.0	20.4	20.8	21.2	21.7	22.1	22.5	22.6
90°	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4	19.7	19.0	16.7
92.5°	26.3	26.0	25.8	25.5	25.3	24.7	23.5	22.4	21.3	20.2	18.5
95°	30.0	30.0	30.0	30.0	30.0	29.4	28.2	27.0	25.8	24.4	22.5
97.5°	32.5	32.3	32.2	32.0	31.8	31.0	29.6	28.3	26.9	25.4	38.1
100°	33.1	33.0	32.8	32.6	32.4	31.7	30.3	28.9	27.5	26.1	53.4
102.5°	33.8	33.4	33.1	32.8	32.5	34.5	38.9	43.2	47.6	51.9	81.8
105°	34.7	34.4	34.0	33.7	33.3	48.7	79.8	110.8	141.9	172.9	188.6
107.5°	109.1	132.5	155.9	179.4	202.7	225.8	248.6	271.4	294.2	316.9	314.4
110°	217.1	242.2	267.3	292.4	317.5	333.0	338.7	344.5	350.3	356.1	354.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	372.5	377.8	383.0	388.4	393.6	396.3	396.2	396.1	396.0	395.9	393.9
115°	464.2	463.5	462.8	462.1	461.4	460.2	458.5	456.7	454.9	453.2	451.6
117.5°	515.7	515.5	515.4	515.3	515.1	514.3	513.0	511.6	510.2	508.8	508.0
120°	551.1	551.1	551.1	551.1	551.1	550.4	549.0	547.5	546.1	544.7	544.2
122.5°	585.8	585.7	585.5	585.4	585.2	584.7	583.7	582.7	581.8	580.8	580.1
125°	634.8	634.4	634.1	633.7	633.4	633.0	632.7	632.3	632.0	631.6	630.9
127.5°	681.9	682.2	682.6	682.9	683.2	683.1	682.6	682.0	681.5	680.9	680.0
130°	712.2	712.5	712.9	713.2	713.6	713.4	712.7	712.0	711.2	710.5	709.8
132.5°	739.9	740.4	740.9	741.4	741.8	741.7	741.0	740.3	739.7	739.0	738.4
135°	782.4	782.9	783.5	784.0	784.5	784.5	784.0	783.5	782.9	782.4	781.7
137.5°	822.3	822.7	823.0	823.4	823.7	823.5	822.6	821.8	821.0	820.1	819.7
140°	846.4	846.7	847.1	847.4	847.8	847.6	846.9	846.2	845.5	844.8	844.2
142.5°	868.5	869.0	869.4	869.9	870.4	870.4	869.8	869.3	868.7	868.2	867.6
145°	902.4	902.4	902.4	902.4	902.4	902.2	901.9	901.5	901.2	900.8	900.5
147.5°	927.7	928.5	929.3	930.1	930.9	931.1	930.8	930.4	930.1	929.7	929.4
150°	946.6	947.2	947.7	948.2	948.8	948.8	948.5	948.1	947.8	947.5	947.1
152.5°	961.8	962.6	963.4	964.2	965.0	965.1	964.4	963.8	963.2	962.6	962.4
155°	982.9	984.0	985.0	986.1	987.1	987.2	986.3	985.5	984.6	983.7	983.5
157.5°	1000.8	1002.2	1003.5	1004.9	1006.2	1006.4	1005.3	1004.3	1003.3	1002.2	1002.4
160°	1012.2	1013.4	1014.6	1015.8	1017.0	1017.1	1016.1	1015.0	1014.0	1012.9	1013.1
162.5°	1022.9	1024.0	1025.0	1026.1	1027.2	1027.1	1026.0	1024.8	1023.6	1022.4	1022.6
165°	1035.8	1037.0	1038.2	1039.6	1040.8	1040.7	1039.3	1037.8	1036.4	1035.0	1035.2
167.5°	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8	1049.4	1047.9	1046.5	1045.1	1045.1
170°	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4	1055.0	1053.6	1052.3	1050.9	1050.9
172.5°	1054.0	1055.5	1057.1	1058.6	1060.2	1060.3	1058.8	1057.4	1056.0	1054.6	1054.5
175°	1058.7	1060.2	1061.6	1063.0	1064.3	1064.4	1063.2	1062.0	1060.8	1059.6	1059.3
177.5°	1060.2	1061.6	1063.0	1064.4	1065.8	1065.9	1064.8	1063.7	1062.6	1061.4	1061.3
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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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°	23.2	23.3	21.2	18.6	17.2	15.1	14.8	13.3	12.6	12.9	12.7
90°	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8	2.5	4.3	6.1
92.5°	16.8	15.0	13.3	12.7	13.2	13.7	14.2	14.6	14.2	13.7	13.2
95°	20.6	18.7	16.8	19.4	26.6	33.7	41.0	48.2	41.0	33.7	26.6
97.5°	50.7	63.3	75.9	83.9	87.2	90.4	93.6	96.7	93.6	90.4	87.2
100°	80.8	108.2	135.5	147.4	143.9	140.5	136.9	133.4	136.9	140.5	143.9
102.5°	111.7	141.7	171.6	185.2	182.7	180.2	177.6	175.1	177.6	180.2	182.7
105°	204.5	220.3	236.1	243.0	241.1	239.1	237.2	235.3	237.2	239.1	241.1
107.5°	311.9	309.4	306.9	304.9	303.4	301.8	300.3	298.7	300.3	301.8	303.4
110°	352.2	350.3	348.3	346.7	345.3	343.9	342.4	341.0	342.4	343.9	345.3



TEST NUMBER: P332018-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	392.0	390.1	388.1	386.6	385.3	384.1	382.7	381.5	382.7	384.1	385.3
115°	450.0	448.5	446.9	445.6	444.5	443.4	442.4	441.3	442.4	443.4	444.5
117.5°	507.2	506.3	505.5	504.4	503.2	501.9	500.6	499.3	500.6	501.9	503.2
120°	543.7	543.2	542.7	541.6	540.0	538.5	536.8	535.3	536.8	538.5	540.0
122.5°	579.5	578.8	578.0	577.1	575.8	574.5	573.2	571.9	573.2	574.5	575.8
125°	630.2	629.5	628.8	627.7	626.3	624.9	623.5	622.2	623.5	624.9	626.3
127.5°	679.2	678.3	677.5	676.4	675.0	673.6	672.2	670.8	672.2	673.6	675.0
130°	709.1	708.4	707.7	706.7	705.3	703.9	702.5	701.0	702.5	703.9	705.3
132.5°	737.8	737.3	736.7	735.8	734.4	733.0	731.5	730.1	731.5	733.0	734.4
135°	781.0	780.3	779.6	778.7	777.7	776.6	775.6	774.5	775.6	776.6	777.7
137.5°	819.4	819.0	818.6	817.7	816.4	815.1	813.7	812.4	813.7	815.1	816.4
140°	843.7	843.2	842.6	841.9	840.8	839.8	838.7	837.7	838.7	839.8	840.8
142.5°	867.1	866.6	866.1	865.3	864.2	863.1	862.1	861.0	862.1	863.1	864.2
145°	900.1	899.8	899.4	898.7	897.4	896.2	894.9	893.7	894.9	896.2	897.4
147.5°	929.0	928.7	928.4	927.8	927.0	926.1	925.3	924.5	925.3	926.1	927.0
150°	946.7	946.3	946.0	945.5	945.0	944.5	944.0	943.4	944.0	944.5	945.0
152.5°	962.1	961.9	961.7	961.5	961.3	961.0	960.8	960.5	960.8	961.0	961.3
155°	983.4	983.2	983.0	983.1	983.5	983.8	984.2	984.5	984.2	983.8	983.5
157.5°	1002.6	1002.7	1002.9	1003.0	1003.0	1003.1	1003.1	1003.1	1003.1	1003.1	1003.0
160°	1013.3	1013.5	1013.6	1013.8	1014.0	1014.2	1014.3	1014.5	1014.3	1014.2	1014.0
162.5°	1022.8	1022.9	1023.1	1023.4	1023.9	1024.3	1024.8	1025.2	1024.8	1024.3	1023.9
165°	1035.4	1035.6	1035.7	1036.1	1036.6	1037.1	1037.6	1038.2	1037.6	1037.1	1036.6
167.5°	1045.1	1045.1	1045.1	1045.5	1046.2	1046.9	1047.6	1048.3	1047.6	1046.9	1046.2
170°	1050.9	1050.9	1050.9	1051.2	1051.9	1052.6	1053.3	1054.0	1053.3	1052.6	1051.9
172.5°	1054.3	1054.2	1054.1	1054.4	1055.2	1056.1	1056.9	1057.7	1056.9	1056.1	1055.2
175°	1059.1	1058.9	1058.8	1059.1	1060.1	1061.0	1061.8	1062.7	1061.8	1061.0	1060.1
177.5°	1061.2	1061.0	1060.9	1061.2	1061.9	1062.6	1063.3	1063.9	1063.3	1062.6	1061.9
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P332018-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A

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°	12.5	13.5	13.4	14.4	14.3	15.3	15.5	14.5	14.6	16.5	14.3
90°	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4	21.0	21.7	22.3
92.5°	12.7	13.3	15.0	16.8	18.5	20.2	21.3	22.4	23.5	24.7	25.3
95°	19.4	16.8	18.7	20.6	22.5	24.4	25.8	27.0	28.2	29.4	30.0
97.5°	83.9	75.9	63.3	50.7	38.1	25.4	26.9	28.3	29.6	31.0	31.8
100°	147.4	135.5	108.2	80.8	53.4	26.1	27.5	28.9	30.3	31.7	32.4
102.5°	185.2	171.6	141.7	111.7	81.8	51.9	47.6	43.2	38.9	34.5	32.5
105°	243.0	236.1	220.3	204.5	188.6	172.9	141.9	110.8	79.8	48.7	33.3
107.5°	304.9	306.9	309.4	311.9	314.4	316.9	294.2	271.4	248.6	225.8	202.7
110°	346.7	348.3	350.3	352.2	354.2	356.1	350.3	344.5	338.7	333.0	317.5



TEST NUMBER: P332018-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	386.6	388.1	390.1	392.0	393.9	395.9	396.0	396.1	396.2	396.3	393.6
115°	445.6	446.9	448.5	450.0	451.6	453.2	454.9	456.7	458.5	460.2	461.4
117.5°	504.4	505.5	506.3	507.2	508.0	508.8	510.2	511.6	513.0	514.3	515.1
120°	541.6	542.7	543.2	543.7	544.2	544.7	546.1	547.5	549.0	550.4	551.1
122.5°	577.1	578.0	578.8	579.5	580.1	580.8	581.8	582.7	583.7	584.7	585.2
125°	627.7	628.8	629.5	630.2	630.9	631.6	632.0	632.3	632.7	633.0	633.4
127.5°	676.4	677.5	678.3	679.2	680.0	680.9	681.5	682.0	682.6	683.1	683.2
130°	706.7	707.7	708.4	709.1	709.8	710.5	711.2	712.0	712.7	713.4	713.6
132.5°	735.8	736.7	737.3	737.8	738.4	739.0	739.7	740.3	741.0	741.7	741.8
135°	778.7	779.6	780.3	781.0	781.7	782.4	782.9	783.5	784.0	784.5	784.5
137.5°	817.7	818.6	819.0	819.4	819.7	820.1	821.0	821.8	822.6	823.5	823.7
140°	841.9	842.6	843.2	843.7	844.2	844.8	845.5	846.2	846.9	847.6	847.8
142.5°	865.3	866.1	866.6	867.1	867.6	868.2	868.7	869.3	869.8	870.4	870.4
145°	898.7	899.4	899.8	900.1	900.5	900.8	901.2	901.5	901.9	902.2	902.4
147.5°	927.8	928.4	928.7	929.0	929.4	929.7	930.1	930.4	930.8	931.1	930.9
150°	945.5	946.0	946.3	946.7	947.1	947.5	947.8	948.1	948.5	948.8	948.8
152.5°	961.5	961.7	961.9	962.1	962.4	962.6	963.2	963.8	964.4	965.1	965.0
155°	983.1	983.0	983.2	983.4	983.5	983.7	984.6	985.5	986.3	987.2	987.1
157.5°	1003.0	1002.9	1002.7	1002.6	1002.4	1002.2	1003.3	1004.3	1005.3	1006.4	1006.2
160°	1013.8	1013.6	1013.5	1013.3	1013.1	1012.9	1014.0	1015.0	1016.1	1017.1	1017.0
162.5°	1023.4	1023.1	1022.9	1022.8	1022.6	1022.4	1023.6	1024.8	1026.0	1027.1	1027.2
165°	1036.1	1035.7	1035.6	1035.4	1035.2	1035.0	1036.4	1037.8	1039.3	1040.7	1040.8
167.5°	1045.5	1045.1	1045.1	1045.1	1045.1	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8
170°	1051.2	1050.9	1050.9	1050.9	1050.9	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4
172.5°	1054.4	1054.1	1054.2	1054.3	1054.5	1054.6	1056.0	1057.4	1058.8	1060.3	1060.2
175°	1059.1	1058.8	1058.9	1059.1	1059.3	1059.6	1060.8	1062.0	1063.2	1064.4	1064.3
177.5°	1061.2	1060.9	1061.0	1061.2	1061.3	1061.4	1062.6	1063.7	1064.8	1065.9	1065.8
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P332018-840

CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A

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°	14.4	14.5	14.0	13.5	14.0	14.5	14.4	14.3	16.5	14.6	14.5
90°	22.6	23.0	23.3	23.7	23.3	23.0	22.6	22.3	21.7	21.0	20.4
92.5°	25.5	25.8	26.0	26.3	26.0	25.8	25.5	25.3	24.7	23.5	22.4
95°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.4	28.2	27.0
97.5°	32.0	32.2	32.3	32.5	32.3	32.2	32.0	31.8	31.0	29.6	28.3
100°	32.6	32.8	33.0	33.1	33.0	32.8	32.6	32.4	31.7	30.3	28.9
102.5°	32.8	33.1	33.4	33.8	33.4	33.1	32.8	32.5	34.5	38.9	43.2
105°	33.7	34.0	34.4	34.7	34.4	34.0	33.7	33.3	48.7	79.8	110.8
107.5°	179.4	155.9	132.5	109.1	132.5	155.9	179.4	202.7	225.8	248.6	271.4
110°	292.4	267.3	242.2	217.1	242.2	267.3	292.4	317.5	333.0	338.7	344.5



TEST NUMBER: P332018-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	388.4	383.0	377.8	372.5	377.8	383.0	388.4	393.6	396.3	396.2	396.1
115°	462.1	462.8	463.5	464.2	463.5	462.8	462.1	461.4	460.2	458.5	456.7
117.5°	515.3	515.4	515.5	515.7	515.5	515.4	515.3	515.1	514.3	513.0	511.6
120°	551.1	551.1	551.1	551.1	551.1	551.1	551.1	551.1	550.4	549.0	547.5
122.5°	585.4	585.5	585.7	585.8	585.7	585.5	585.4	585.2	584.7	583.7	582.7
125°	633.7	634.1	634.4	634.8	634.4	634.1	633.7	633.4	633.0	632.7	632.3
127.5°	682.9	682.6	682.2	681.9	682.2	682.6	682.9	683.2	683.1	682.6	682.0
130°	713.2	712.9	712.5	712.2	712.5	712.9	713.2	713.6	713.4	712.7	712.0
132.5°	741.4	740.9	740.4	739.9	740.4	740.9	741.4	741.8	741.7	741.0	740.3
135°	784.0	783.5	782.9	782.4	782.9	783.5	784.0	784.5	784.5	784.0	783.5
137.5°	823.4	823.0	822.7	822.3	822.7	823.0	823.4	823.7	823.5	822.6	821.8
140°	847.4	847.1	846.7	846.4	846.7	847.1	847.4	847.8	847.6	846.9	846.2
142.5°	869.9	869.4	869.0	868.5	869.0	869.4	869.9	870.4	870.4	869.8	869.3
145°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.2	901.9	901.5
147.5°	930.1	929.3	928.5	927.7	928.5	929.3	930.1	930.9	931.1	930.8	930.4
150°	948.2	947.7	947.2	946.6	947.2	947.7	948.2	948.8	948.8	948.5	948.1
152.5°	964.2	963.4	962.6	961.8	962.6	963.4	964.2	965.0	965.1	964.4	963.8
155°	986.1	985.0	984.0	982.9	984.0	985.0	986.1	987.1	987.2	986.3	985.5
157.5°	1004.9	1003.5	1002.2	1000.8	1002.2	1003.5	1004.9	1006.2	1006.4	1005.3	1004.3
160°	1015.8	1014.6	1013.4	1012.2	1013.4	1014.6	1015.8	1017.0	1017.1	1016.1	1015.0
162.5°	1026.1	1025.0	1024.0	1022.9	1024.0	1025.0	1026.1	1027.2	1027.1	1026.0	1024.8
165°	1039.6	1038.2	1037.0	1035.8	1037.0	1038.2	1039.6	1040.8	1040.7	1039.3	1037.8
167.5°	1049.4	1047.9	1046.5	1045.1	1046.5	1047.9	1049.4	1050.8	1050.8	1049.4	1047.9
170°	1055.0	1053.6	1052.3	1050.9	1052.3	1053.6	1055.0	1056.4	1056.4	1055.0	1053.6
172.5°	1058.6	1057.1	1055.5	1054.0	1055.5	1057.1	1058.6	1060.2	1060.3	1058.8	1057.4
175°	1063.0	1061.6	1060.2	1058.7	1060.2	1061.6	1063.0	1064.3	1064.4	1063.2	1062.0
177.5°	1064.4	1063.0	1061.6	1060.2	1061.6	1063.0	1064.4	1065.8	1065.9	1064.8	1063.7
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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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°	15.5	15.3	14.3	14.4	13.4	13.5	12.5	12.7	12.9	12.6	13.3
90°	19.7	19.0	16.7	14.3	12.1	9.8	7.8	6.1	4.3	2.5	0.8
92.5°	21.3	20.2	18.5	16.8	15.0	13.3	12.7	13.2	13.7	14.2	14.6
95°	25.8	24.4	22.5	20.6	18.7	16.8	19.4	26.6	33.7	41.0	48.2
97.5°	26.9	25.4	38.1	50.7	63.3	75.9	83.9	87.2	90.4	93.6	96.7
100°	27.5	26.1	53.4	80.8	108.2	135.5	147.4	143.9	140.5	136.9	133.4
102.5°	47.6	51.9	81.8	111.7	141.7	171.6	185.2	182.7	180.2	177.6	175.1
105°	141.9	172.9	188.6	204.5	220.3	236.1	243.0	241.1	239.1	237.2	235.3
107.5°	294.2	316.9	314.4	311.9	309.4	306.9	304.9	303.4	301.8	300.3	298.7
110°	350.3	356.1	354.2	352.2	350.3	348.3	346.7	345.3	343.9	342.4	341.0



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CATALOG NUMBER: S123DIP-S1000D805U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	396.0	395.9	393.9	392.0	390.1	388.1	386.6	385.3	384.1	382.7	381.5
115°	454.9	453.2	451.6	450.0	448.5	446.9	445.6	444.5	443.4	442.4	441.3
117.5°	510.2	508.8	508.0	507.2	506.3	505.5	504.4	503.2	501.9	500.6	499.3
120°	546.1	544.7	544.2	543.7	543.2	542.7	541.6	540.0	538.5	536.8	535.3
122.5°	581.8	580.8	580.1	579.5	578.8	578.0	577.1	575.8	574.5	573.2	571.9
125°	632.0	631.6	630.9	630.2	629.5	628.8	627.7	626.3	624.9	623.5	622.2
127.5°	681.5	680.9	680.0	679.2	678.3	677.5	676.4	675.0	673.6	672.2	670.8
130°	711.2	710.5	709.8	709.1	708.4	707.7	706.7	705.3	703.9	702.5	701.0
132.5°	739.7	739.0	738.4	737.8	737.3	736.7	735.8	734.4	733.0	731.5	730.1
135°	782.9	782.4	781.7	781.0	780.3	779.6	778.7	777.7	776.6	775.6	774.5
137.5°	821.0	820.1	819.7	819.4	819.0	818.6	817.7	816.4	815.1	813.7	812.4
140°	845.5	844.8	844.2	843.7	843.2	842.6	841.9	840.8	839.8	838.7	837.7
142.5°	868.7	868.2	867.6	867.1	866.6	866.1	865.3	864.2	863.1	862.1	861.0
145°	901.2	900.8	900.5	900.1	899.8	899.4	898.7	897.4	896.2	894.9	893.7
147.5°	930.1	929.7	929.4	929.0	928.7	928.4	927.8	927.0	926.1	925.3	924.5
150°	947.8	947.5	947.1	946.7	946.3	946.0	945.5	945.0	944.5	944.0	943.4
152.5°	963.2	962.6	962.4	962.1	961.9	961.7	961.5	961.3	961.0	960.8	960.5
155°	984.6	983.7	983.5	983.4	983.2	983.0	983.1	983.5	983.8	984.2	984.5
157.5°	1003.3	1002.2	1002.4	1002.6	1002.7	1002.9	1003.0	1003.0	1003.1	1003.1	1003.1
160°	1014.0	1012.9	1013.1	1013.3	1013.5	1013.6	1013.8	1014.0	1014.2	1014.3	1014.5
162.5°	1023.6	1022.4	1022.6	1022.8	1022.9	1023.1	1023.4	1023.9	1024.3	1024.8	1025.2
165°	1036.4	1035.0	1035.2	1035.4	1035.6	1035.7	1036.1	1036.6	1037.1	1037.6	1038.2
167.5°	1046.5	1045.1	1045.1	1045.1	1045.1	1045.1	1045.5	1046.2	1046.9	1047.6	1048.3
170°	1052.3	1050.9	1050.9	1050.9	1050.9	1050.9	1051.2	1051.9	1052.6	1053.3	1054.0
172.5°	1056.0	1054.6	1054.5	1054.3	1054.2	1054.1	1054.4	1055.2	1056.1	1056.9	1057.7
175°	1060.8	1059.6	1059.3	1059.1	1058.9	1058.8	1059.1	1060.1	1061.0	1061.8	1062.7
177.5°	1062.6	1061.4	1061.3	1061.2	1061.0	1060.9	1061.2	1061.9	1062.6	1063.3	1063.9
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



TEST NUMBER: P332018-840

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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°	14.8	15.1	17.2	18.6	21.2	23.3	23.2	22.6	22.5	22.1	21.7
90°	2.5	4.3	6.1	7.8	9.8	12.1	14.3	16.7	19.0	19.7	20.4
92.5°	14.2	13.7	13.2	12.7	13.3	15.0	16.8	18.5	20.2	21.3	22.4
95°	41.0	33.7	26.6	19.4	16.8	18.7	20.6	22.5	24.4	25.8	27.0
97.5°	93.6	90.4	87.2	83.9	75.9	63.3	50.7	38.1	25.4	26.9	28.3
100°	136.9	140.5	143.9	147.4	135.5	108.2	80.8	53.4	26.1	27.5	28.9
102.5°	177.6	180.2	182.7	185.2	171.6	141.7	111.7	81.8	51.9	47.6	43.2
105°	237.2	239.1	241.1	243.0	236.1	220.3	204.5	188.6	172.9	141.9	110.8
107.5°	300.3	301.8	303.4	304.9	306.9	309.4	311.9	314.4	316.9	294.2	271.4
110°	342.4	343.9	345.3	346.7	348.3	350.3	352.2	354.2	356.1	350.3	344.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	382.7	384.1	385.3	386.6	388.1	390.1	392.0	393.9	395.9	396.0	396.1
115°	442.4	443.4	444.5	445.6	446.9	448.5	450.0	451.6	453.2	454.9	456.7
117.5°	500.6	501.9	503.2	504.4	505.5	506.3	507.2	508.0	508.8	510.2	511.6
120°	536.8	538.5	540.0	541.6	542.7	543.2	543.7	544.2	544.7	546.1	547.5
122.5°	573.2	574.5	575.8	577.1	578.0	578.8	579.5	580.1	580.8	581.8	582.7
125°	623.5	624.9	626.3	627.7	628.8	629.5	630.2	630.9	631.6	632.0	632.3
127.5°	672.2	673.6	675.0	676.4	677.5	678.3	679.2	680.0	680.9	681.5	682.0
130°	702.5	703.9	705.3	706.7	707.7	708.4	709.1	709.8	710.5	711.2	712.0
132.5°	731.5	733.0	734.4	735.8	736.7	737.3	737.8	738.4	739.0	739.7	740.3
135°	775.6	776.6	777.7	778.7	779.6	780.3	781.0	781.7	782.4	782.9	783.5
137.5°	813.7	815.1	816.4	817.7	818.6	819.0	819.4	819.7	820.1	821.0	821.8
140°	838.7	839.8	840.8	841.9	842.6	843.2	843.7	844.2	844.8	845.5	846.2
142.5°	862.1	863.1	864.2	865.3	866.1	866.6	867.1	867.6	868.2	868.7	869.3
145°	894.9	896.2	897.4	898.7	899.4	899.8	900.1	900.5	900.8	901.2	901.5
147.5°	925.3	926.1	927.0	927.8	928.4	928.7	929.0	929.4	929.7	930.1	930.4
150°	944.0	944.5	945.0	945.5	946.0	946.3	946.7	947.1	947.5	947.8	948.1
152.5°	960.8	961.0	961.3	961.5	961.7	961.9	962.1	962.4	962.6	963.2	963.8
155°	984.2	983.8	983.5	983.1	983.0	983.2	983.4	983.5	983.7	984.6	985.5
157.5°	1003.1	1003.1	1003.0	1003.0	1002.9	1002.7	1002.6	1002.4	1002.2	1003.3	1004.3
160°	1014.3	1014.2	1014.0	1013.8	1013.6	1013.5	1013.3	1013.1	1012.9	1014.0	1015.0
162.5°	1024.8	1024.3	1023.9	1023.4	1023.1	1022.9	1022.8	1022.6	1022.4	1023.6	1024.8
165°	1037.6	1037.1	1036.6	1036.1	1035.7	1035.6	1035.4	1035.2	1035.0	1036.4	1037.8
167.5°	1047.6	1046.9	1046.2	1045.5	1045.1	1045.1	1045.1	1045.1	1045.1	1046.5	1047.9
170°	1053.3	1052.6	1051.9	1051.2	1050.9	1050.9	1050.9	1050.9	1050.9	1052.3	1053.6
172.5°	1056.9	1056.1	1055.2	1054.4	1054.1	1054.2	1054.3	1054.5	1054.6	1056.0	1057.4
175°	1061.8	1061.0	1060.1	1059.1	1058.8	1058.9	1059.1	1059.3	1059.6	1060.8	1062.0
177.5°	1063.3	1062.6	1061.9	1061.2	1060.9	1061.0	1061.2	1061.3	1061.4	1062.6	1063.7
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7



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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°	21.2	20.8	20.4	21.0	20.5	20.1	21.2
90°	21.0	21.7	22.3	22.6	23.0	23.3	23.7
92.5°	23.5	24.7	25.3	25.5	25.8	26.0	26.3
95°	28.2	29.4	30.0	30.0	30.0	30.0	30.0
97.5°	29.6	31.0	31.8	32.0	32.2	32.3	32.5
100°	30.3	31.7	32.4	32.6	32.8	33.0	33.1
102.5°	38.9	34.5	32.5	32.8	33.1	33.4	33.8
105°	79.8	48.7	33.3	33.7	34.0	34.4	34.7
107.5°	248.6	225.8	202.7	179.4	155.9	132.5	109.1
110°	338.7	333.0	317.5	292.4	267.3	242.2	217.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	396.2	396.3	393.6	388.4	383.0	377.8	372.5
115°	458.5	460.2	461.4	462.1	462.8	463.5	464.2
117.5°	513.0	514.3	515.1	515.3	515.4	515.5	515.7
120°	549.0	550.4	551.1	551.1	551.1	551.1	551.1
122.5°	583.7	584.7	585.2	585.4	585.5	585.7	585.8
125°	632.7	633.0	633.4	633.7	634.1	634.4	634.8
127.5°	682.6	683.1	683.2	682.9	682.6	682.2	681.9
130°	712.7	713.4	713.6	713.2	712.9	712.5	712.2
132.5°	741.0	741.7	741.8	741.4	740.9	740.4	739.9
135°	784.0	784.5	784.5	784.0	783.5	782.9	782.4
137.5°	822.6	823.5	823.7	823.4	823.0	822.7	822.3
140°	846.9	847.6	847.8	847.4	847.1	846.7	846.4
142.5°	869.8	870.4	870.4	869.9	869.4	869.0	868.5
145°	901.9	902.2	902.4	902.4	902.4	902.4	902.4
147.5°	930.8	931.1	930.9	930.1	929.3	928.5	927.7
150°	948.5	948.8	948.8	948.2	947.7	947.2	946.6
152.5°	964.4	965.1	965.0	964.2	963.4	962.6	961.8
155°	986.3	987.2	987.1	986.1	985.0	984.0	982.9
157.5°	1005.3	1006.4	1006.2	1004.9	1003.5	1002.2	1000.8
160°	1016.1	1017.1	1017.0	1015.8	1014.6	1013.4	1012.2
162.5°	1026.0	1027.1	1027.2	1026.1	1025.0	1024.0	1022.9
165°	1039.3	1040.7	1040.8	1039.6	1038.2	1037.0	1035.8
167.5°	1049.4	1050.8	1050.8	1049.4	1047.9	1046.5	1045.1
170°	1055.0	1056.4	1056.4	1055.0	1053.6	1052.3	1050.9
172.5°	1058.8	1060.3	1060.2	1058.6	1057.1	1055.5	1054.0
175°	1063.2	1064.4	1064.3	1063.0	1061.6	1060.2	1058.7
177.5°	1064.8	1065.9	1065.8	1064.4	1063.0	1061.6	1060.2
180°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7

(END OF REPORT)