

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: P331567-940

Luminaire Tested: **S122DIW-S865D970U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331567-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D970U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6850.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

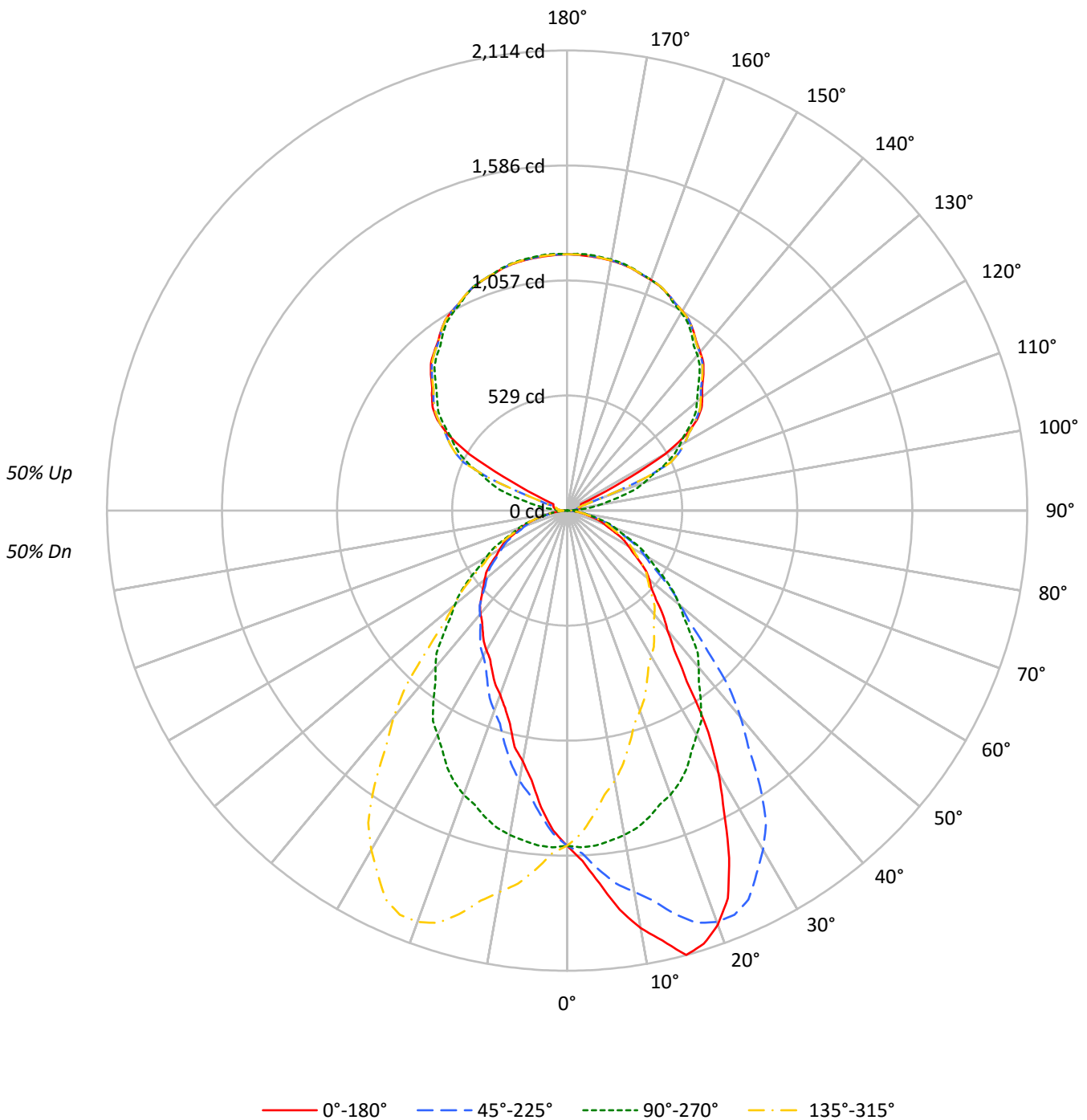
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48	43
2	90	83	77	72	83	77	71	67	65	61	58	54	52	49	45	43	41	37
3	82	73	66	60	76	68	62	57	58	53	49	49	45	42	40	38	36	32
4	75	65	57	52	69	60	54	48	52	47	43	44	40	37	36	33	31	27
5	69	58	50	44	64	54	47	42	46	41	37	39	35	32	33	30	27	24
6	64	52	44	39	59	49	42	37	42	37	33	36	32	28	30	27	24	22
7	59	47	40	34	55	44	37	32	38	33	29	33	28	25	27	24	22	19
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	51	40	32	27	48	37	30	26	32	27	23	28	24	21	23	20	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24857	24857	24857	24857
5°	27869	25020	22172	25020
10°	31936	24815	19189	24815
15°	35328	24359	16951	24359
20°	34790	23871	15454	23871
25°	31370	23222	14503	23222
30°	25922	22184	13811	22184
35°	18892	21098	13318	21098
40°	15091	19816	13044	19816
45°	13186	18333	12673	18333
50°	12396	16900	12424	16900
55°	11426	15440	12090	15440
60°	10469	13892	11580	13892
65°	9540	12500	11075	12500
70°	8658	11146	10334	11146
75°	7679	9632	9158	9632
80°	6602	7978	7373	7978
85°	5910	5910	4372	5910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	2.1
10°-20°	426.3	6.2
20°-30°	618.6	9.0
30°-40°	652.8	9.5
40°-50°	578.0	8.4
50°-60°	461.3	6.7
60°-70°	313.5	4.6
70°-80°	160.7	2.3
80°-90°	41.6	0.6
90°-100°	39.3	0.6
100°-110°	144.0	2.1
110°-120°	385.0	5.6
120°-130°	635.6	9.3
130°-140°	675.9	9.9
140°-150°	628.3	9.2
150°-160°	505.1	7.4
160°-170°	325.5	4.8
170°-180°	112.0	1.6
0°-30°	1191.5	17.4
0°-40°	1844.3	26.9
0°-60°	2883.6	42.1
0°-90°	3399.5	49.6
90°-120°	568.4	8.3
90°-150°	2508.2	36.6
90°-180°	3451.0	50.4
0°-180°	6850.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1540	1540	1540	1540	1540	
5°	1720	1544	1368	1544	1720	172
15°	2114	1457	1014	1457	2114	583
25°	1761	1304	814	1304	1761	796
35°	958	1070	676	1070	958	623
45°	578	803	555	803	578	454
55°	406	548	430	548	406	364
65°	250	327	290	327	250	248
75°	123	154	147	154	123	132
85°	32	32	24	32	32	36
90°	23	1	23	1	23	12
95°	37	55	37	55	37	34
105°	65	259	65	259	65	67
115°	70	490	70	490	70	175
125°	728	693	728	693	728	630
135°	885	857	885	857	885	682
145°	1010	994	1010	994	1010	631
155°	1096	1095	1096	1095	1096	506
165°	1151	1154	1151	1154	1151	325
175°	1173	1180	1173	1180	1173	112
180°	1178	1178	1178	1178	1178	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1610.6	1611.1	1612.0	1604.5	1603.5	1603.5	1596.9	1591.2	1584.6	1575.6	1576.5
5°	1719.5	1726.0	1728.3	1721.3	1710.6	1709.4	1699.3	1682.7	1667.4	1654.9	1646.1
7.5°	1849.4	1852.0	1846.2	1836.8	1828.9	1814.7	1796.0	1777.7	1752.0	1728.5	1710.9
10°	1947.9	1951.4	1941.3	1927.7	1916.5	1899.9	1872.7	1844.9	1811.2	1778.6	1752.6
12.5°	2022.7	2031.4	2018.5	2016.7	1997.4	1974.7	1942.3	1928.2	1880.8	1835.4	1807.5
15°	2113.5	2112.9	2114.2	2102.8	2088.7	2085.1	2050.8	2013.6	1946.7	1920.0	1873.9
17.5°	2087.2	2096.2	2100.4	2100.2	2099.9	2097.7	2086.7	2063.2	2029.6	1986.5	1933.1
20°	2024.8	2036.6	2038.4	2052.0	2059.7	2069.7	2073.9	2067.3	2046.7	2010.5	1964.4
22.5°	1928.2	1931.5	1937.1	1958.3	1975.0	2000.2	2013.3	2035.2	2027.2	2009.6	1971.0
25°	1760.9	1755.0	1775.7	1786.3	1824.8	1865.0	1894.0	1925.9	1954.4	1971.5	1960.2
27.5°	1560.0	1551.0	1582.1	1610.3	1641.6	1685.2	1730.4	1783.7	1828.1	1883.6	1902.6
30°	1390.4	1395.8	1425.4	1455.5	1502.9	1564.4	1615.3	1673.9	1737.2	1799.3	1842.5
32.5°	1207.7	1228.2	1247.0	1293.2	1334.9	1403.5	1478.0	1551.3	1630.2	1700.8	1767.7
35°	958.5	982.2	1008.3	1042.0	1100.5	1168.6	1241.4	1340.2	1447.9	1544.4	1623.6
37.5°	806.8	803.1	818.0	842.3	889.7	944.7	1028.5	1126.1	1252.9	1366.2	1478.0
40°	716.0	713.5	724.2	746.7	782.8	823.0	896.4	982.2	1099.9	1238.4	1371.5
42.5°	653.4	654.9	660.8	676.6	701.4	734.5	789.4	862.5	970.3	1100.6	1243.8
45°	577.5	581.7	588.2	595.8	610.0	637.2	668.0	720.1	805.3	914.2	1055.0
47.5°	522.8	522.9	529.6	536.3	544.7	560.1	585.1	617.9	678.0	766.6	887.7
50°	493.5	489.4	494.1	499.4	508.3	518.9	535.5	566.2	606.5	678.1	779.3
52.5°	457.5	457.6	461.9	463.9	471.8	482.5	497.6	518.9	555.4	611.4	694.6
55°	405.9	408.8	411.3	414.7	421.9	429.5	441.4	455.6	484.0	526.0	587.5
57.5°	357.4	358.3	360.7	367.5	371.9	379.1	390.3	403.1	421.6	452.7	499.0
60°	324.2	324.2	329.0	331.9	337.9	344.9	353.8	366.2	382.8	408.2	445.6
62.5°	294.0	293.5	295.3	300.2	304.7	311.4	320.2	330.7	346.3	369.0	399.7
65°	249.7	248.5	252.1	253.2	258.0	264.5	271.6	282.9	295.2	311.8	339.0
67.5°	207.1	208.5	210.4	212.7	215.3	222.1	226.9	234.8	245.3	259.0	277.5
70°	183.4	183.4	183.4	185.2	188.8	192.3	197.1	203.6	213.6	225.4	242.0
72.5°	156.9	158.8	160.7	159.6	164.2	166.3	171.9	175.6	185.2	192.8	207.4
75°	123.1	123.1	123.1	126.0	127.8	129.6	133.1	136.7	141.4	150.9	158.5
77.5°	91.8	91.6	92.2	92.9	94.8	96.9	98.0	101.2	105.6	109.9	116.5
80°	71.0	72.2	72.8	73.9	73.9	75.2	75.7	79.9	82.8	85.8	90.0
82.5°	54.9	55.1	55.3	55.5	56.0	56.7	58.2	59.6	60.5	63.0	66.3
85°	31.9	31.4	31.4	32.5	31.9	31.9	33.2	34.3	34.3	34.9	36.6
87.5°	16.9	16.9	17.2	16.7	16.6	16.9	16.8	16.1	16.4	16.7	16.9
90°	23.0	22.6	22.2	21.8	21.5	20.9	19.9	18.9	18.0	17.0	15.5
92.5°	23.0	22.7	22.6	22.3	22.1	21.8	21.2	20.8	20.2	19.8	19.0
95°	36.6	36.8	37.0	37.2	37.4	37.0	36.1	35.1	34.2	33.3	31.9
97.5°	48.9	48.7	48.4	48.2	48.0	47.5	46.7	46.0	45.2	44.5	41.4
100°	57.1	56.7	56.4	55.9	55.6	54.7	53.1	51.6	50.1	48.6	45.4
102.5°	61.2	60.6	60.1	59.6	59.0	57.8	55.8	53.9	51.9	49.9	46.9
105°	64.7	64.0	63.2	62.5	61.7	60.3	58.2	56.2	54.0	52.0	49.7
107.5°	66.6	65.9	65.1	64.4	63.6	64.3	66.4	68.5	70.6	72.8	74.7
110°	67.3	66.5	65.8	65.0	64.3	73.4	92.3	111.2	130.2	149.1	203.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.0	67.4	66.8	66.2	65.5	99.8	168.9	237.9	307.0	376.1	389.6
115°	69.9	83.5	97.1	110.8	124.4	175.0	262.7	350.4	438.0	525.8	521.0
117.5°	285.3	330.1	374.9	419.6	464.5	497.5	518.7	539.8	561.1	582.3	579.1
120°	519.8	545.3	570.9	596.5	622.0	633.6	631.3	629.1	626.9	624.6	621.2
122.5°	648.6	653.5	658.5	663.4	668.4	670.2	668.9	667.5	666.1	664.8	661.0
125°	728.5	727.9	727.4	726.8	726.2	725.3	724.0	722.6	721.3	720.0	716.4
127.5°	778.9	778.8	778.7	778.6	778.5	777.5	775.5	773.6	771.7	769.7	767.0
130°	810.3	810.5	810.7	810.8	811.1	810.1	808.1	805.9	803.9	801.8	799.7
132.5°	841.0	841.2	841.3	841.5	841.8	841.0	839.2	837.4	835.6	833.8	831.7
135°	885.3	885.6	886.0	886.4	886.8	886.0	884.1	882.3	880.4	878.5	876.7
137.5°	925.7	926.3	926.9	927.6	928.3	927.6	925.8	923.9	922.1	920.2	918.3
140°	950.9	951.8	952.8	953.8	954.7	954.3	952.6	950.9	949.2	947.5	945.4
142.5°	975.4	976.4	977.3	978.3	979.2	978.9	977.4	975.8	974.3	972.7	970.4
145°	1009.7	1010.7	1011.6	1012.5	1013.5	1013.3	1012.0	1010.7	1009.3	1008.0	1004.8
147.5°	1039.8	1040.6	1041.4	1042.2	1043.0	1042.9	1042.0	1041.0	1040.0	1039.0	1035.8
150°	1058.3	1059.2	1060.2	1061.1	1062.0	1061.9	1060.8	1059.7	1058.5	1057.4	1054.4
152.5°	1074.0	1075.2	1076.5	1077.7	1079.0	1079.0	1077.8	1076.7	1075.6	1074.4	1071.6
155°	1095.7	1097.3	1098.8	1100.3	1101.8	1102.0	1100.8	1099.7	1098.6	1097.4	1095.2
157.5°	1115.7	1117.1	1118.7	1120.1	1121.6	1121.7	1120.4	1119.1	1117.8	1116.5	1114.9
160°	1127.3	1128.6	1129.9	1131.2	1132.6	1132.7	1131.5	1130.4	1129.3	1128.1	1127.0
162.5°	1136.8	1138.4	1140.1	1141.7	1143.4	1143.5	1142.2	1140.9	1139.6	1138.4	1137.4
165°	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5	1155.1	1153.8	1152.4	1151.1	1150.6
167.5°	1160.2	1161.9	1163.6	1165.3	1167.0	1167.2	1165.8	1164.5	1163.1	1161.9	1161.4
170°	1165.6	1167.3	1169.0	1170.7	1172.4	1172.6	1171.3	1170.0	1168.7	1167.3	1167.0
172.5°	1169.7	1171.4	1173.1	1174.8	1176.5	1176.7	1175.4	1174.0	1172.8	1171.4	1171.0
175°	1173.3	1175.2	1177.1	1178.9	1180.9	1181.2	1179.8	1178.5	1177.1	1175.8	1175.5
177.5°	1175.5	1176.9	1178.2	1179.6	1181.0	1181.1	1180.0	1179.0	1177.9	1176.9	1176.7
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1579.8	1576.0	1573.7	1565.1	1557.6	1550.0	1547.7	1548.5	1538.2	1528.2	1523.9
5°	1641.4	1629.5	1618.3	1602.3	1583.4	1562.6	1552.0	1543.7	1523.0	1500.6	1487.6
7.5°	1696.5	1679.5	1658.0	1627.9	1600.3	1567.7	1547.0	1528.7	1498.4	1466.7	1447.2
10°	1730.1	1707.0	1679.2	1642.5	1608.8	1569.1	1541.3	1513.6	1478.0	1440.2	1416.5
12.5°	1759.0	1727.9	1700.5	1653.4	1613.6	1564.0	1531.0	1491.7	1454.4	1409.4	1386.3
15°	1827.7	1770.3	1718.2	1665.0	1615.9	1546.7	1510.0	1457.3	1408.2	1352.6	1326.0
17.5°	1880.9	1816.4	1734.4	1666.7	1609.4	1532.8	1478.9	1415.8	1357.7	1294.1	1257.9
20°	1911.2	1837.2	1749.0	1668.6	1599.9	1512.3	1453.8	1389.3	1321.2	1249.6	1210.6
22.5°	1929.1	1851.4	1764.2	1661.4	1581.0	1495.8	1422.1	1351.4	1282.5	1205.1	1164.2
25°	1934.8	1863.9	1771.6	1655.6	1557.4	1460.9	1372.2	1303.5	1220.0	1147.9	1088.2
27.5°	1906.7	1855.7	1767.0	1644.4	1530.0	1417.2	1318.3	1240.5	1152.5	1074.2	1014.1
30°	1872.1	1842.5	1756.1	1633.1	1508.2	1387.0	1278.1	1189.9	1102.3	1023.1	961.5
32.5°	1818.6	1812.2	1736.3	1616.9	1485.1	1348.6	1235.9	1146.8	1049.8	971.9	913.2
35°	1713.5	1742.0	1694.0	1581.0	1441.4	1294.1	1172.2	1070.4	969.8	895.2	840.2
37.5°	1572.7	1643.2	1630.7	1528.3	1382.4	1234.7	1100.1	993.7	897.9	822.6	768.6
40°	1475.7	1565.6	1578.6	1488.1	1340.8	1188.7	1046.2	940.2	846.7	778.1	723.6
42.5°	1371.5	1476.6	1512.3	1439.8	1295.3	1140.4	997.8	888.1	795.6	728.9	680.6
45°	1197.0	1336.1	1400.5	1359.1	1219.5	1060.9	914.2	802.9	718.9	656.2	618.9
47.5°	1033.8	1185.7	1272.5	1257.8	1135.1	978.0	832.9	726.2	644.4	594.4	561.1
50°	918.3	1074.5	1179.2	1184.0	1074.5	918.9	773.4	672.8	597.6	550.9	523.6
52.5°	818.0	967.1	1081.3	1106.3	1006.8	857.4	719.9	619.7	553.6	510.6	486.2
55°	687.0	813.0	939.6	985.8	905.9	763.8	636.7	548.5	486.3	456.8	435.5
57.5°	571.1	676.2	793.1	844.1	794.9	673.3	554.0	477.5	427.0	401.2	384.9
60°	510.1	592.9	697.1	758.0	715.3	607.1	502.9	430.2	388.8	365.7	350.3
62.5°	453.3	526.6	614.7	670.4	647.2	545.1	451.8	387.5	351.8	330.2	319.1
65°	374.0	431.9	500.0	551.4	536.1	458.5	382.3	327.2	298.8	281.6	272.8
67.5°	307.9	349.8	397.0	442.1	429.7	374.8	313.4	270.6	249.5	234.7	229.3
70°	266.3	298.2	340.2	376.3	366.2	321.3	272.8	236.1	217.8	205.4	200.0
72.5°	226.5	252.8	284.8	314.3	307.6	270.2	229.7	202.0	187.9	176.5	172.1
75°	171.0	191.1	210.6	230.2	228.4	199.4	175.8	154.4	143.2	134.3	132.5
77.5°	126.3	137.5	150.8	162.4	159.2	142.6	124.0	111.8	103.5	97.6	96.7
80°	96.5	103.0	112.4	120.7	116.5	109.5	94.7	85.8	79.9	73.9	71.6
82.5°	69.9	76.4	82.1	86.6	83.5	76.8	67.7	61.6	58.1	54.0	53.1
85°	36.6	40.2	42.6	43.8	42.6	38.4	34.3	31.9	29.0	27.2	26.7
87.5°	17.0	16.7	16.4	16.9	15.2	14.7	12.4	10.6	10.5	10.4	9.9
90°	14.0	12.5	11.0	9.2	7.1	5.0	2.9	0.9	2.9	5.0	7.1
92.5°	18.3	17.5	16.8	16.5	16.7	16.9	17.0	17.2	17.0	16.9	16.7
95°	30.6	29.2	27.9	30.4	36.6	42.9	49.1	55.4	49.1	42.9	36.6
97.5°	38.3	35.3	32.2	39.5	57.1	74.7	92.3	109.9	92.3	74.7	57.1
100°	42.1	38.9	35.7	47.1	73.0	98.9	124.8	150.8	124.8	98.9	73.0
102.5°	103.8	130.7	157.7	173.8	179.3	184.9	190.3	195.8	190.3	184.9	179.3
105°	155.3	207.1	258.8	281.8	276.1	270.4	264.7	259.0	264.7	270.4	276.1
107.5°	196.7	258.8	320.7	349.5	344.8	340.3	335.7	331.1	335.7	340.3	344.8
110°	258.6	313.3	368.0	393.3	389.4	385.4	381.5	377.5	381.5	385.4	389.4



TEST NUMBER: P331567-940

CATALOG NUMBER: S122DIW-S865D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	403.1	416.7	430.2	435.2	431.7	428.1	424.6	421.1	424.6	428.1	431.7
115°	516.2	511.5	506.8	502.8	499.6	496.4	493.1	489.9	493.1	496.4	499.6
117.5°	575.8	572.6	569.3	565.9	562.2	558.7	555.1	551.4	555.1	558.7	562.2
120°	617.8	614.3	610.9	607.8	604.9	602.1	599.3	596.5	599.3	602.1	604.9
122.5°	657.4	653.6	650.0	646.6	643.5	640.6	637.6	634.6	637.6	640.6	643.5
125°	712.8	709.2	705.6	702.6	700.1	697.7	695.2	692.7	695.2	697.7	700.1
127.5°	764.4	761.7	759.0	756.3	753.6	750.8	748.1	745.4	748.1	750.8	753.6
130°	797.6	795.5	793.4	790.9	787.8	784.9	781.9	778.8	781.9	784.9	787.8
132.5°	829.6	827.6	825.5	823.1	820.6	818.1	815.5	812.9	815.5	818.1	820.6
135°	875.0	873.3	871.6	869.3	866.3	863.3	860.2	857.2	860.2	863.3	866.3
137.5°	916.3	914.4	912.5	910.4	908.4	906.2	904.1	902.0	904.1	906.2	908.4
140°	943.3	941.2	939.1	937.4	935.9	934.3	932.8	931.3	932.8	934.3	935.9
142.5°	968.0	965.5	963.1	961.3	959.9	958.6	957.2	955.8	957.2	958.6	959.9
145°	1001.6	998.4	995.1	993.6	993.8	994.0	994.2	994.3	994.2	994.0	993.8
147.5°	1032.6	1029.5	1026.3	1025.0	1025.7	1026.4	1027.2	1028.0	1027.2	1026.4	1025.7
150°	1051.3	1048.3	1045.3	1044.5	1045.8	1047.0	1048.4	1049.7	1048.4	1047.0	1045.8
152.5°	1068.7	1065.8	1062.9	1062.2	1063.7	1065.1	1066.7	1068.2	1066.7	1065.1	1063.7
155°	1092.9	1090.7	1088.3	1088.1	1089.8	1091.5	1093.1	1094.9	1093.1	1091.5	1089.8
157.5°	1113.4	1111.8	1110.2	1110.1	1111.5	1112.9	1114.5	1115.9	1114.5	1112.9	1111.5
160°	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1127.0	1125.9	1124.7
162.5°	1136.4	1135.4	1134.4	1134.5	1135.6	1136.8	1137.9	1139.1	1137.9	1136.8	1135.6
165°	1150.0	1149.4	1148.9	1149.1	1150.3	1151.4	1152.5	1153.7	1152.5	1151.4	1150.3
167.5°	1160.8	1160.3	1159.8	1160.0	1161.2	1162.3	1163.4	1164.6	1163.4	1162.3	1161.2
170°	1166.5	1166.2	1165.8	1166.2	1167.3	1168.5	1169.6	1170.7	1169.6	1168.5	1167.3
172.5°	1170.6	1170.3	1169.9	1170.3	1171.4	1172.5	1173.7	1174.8	1173.7	1172.5	1171.4
175°	1175.1	1174.7	1174.3	1174.8	1176.2	1177.4	1178.8	1180.1	1178.8	1177.4	1176.2
177.5°	1176.5	1176.4	1176.3	1176.7	1177.8	1178.8	1179.9	1181.0	1179.9	1178.8	1177.8
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



TEST NUMBER: P331567-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1519.2	1516.4	1506.5	1501.3	1492.7	1484.7	1479.4	1481.8	1483.7	1482.7	1481.4
5°	1475.7	1464.5	1447.2	1432.4	1421.8	1402.3	1394.0	1389.9	1386.3	1382.2	1378.0
7.5°	1423.9	1406.1	1381.4	1360.4	1340.5	1316.3	1302.4	1294.1	1285.7	1276.3	1268.0
10°	1387.0	1362.1	1336.1	1306.4	1282.8	1260.9	1241.4	1228.3	1216.6	1205.2	1197.0
12.5°	1348.1	1319.5	1287.3	1246.8	1220.8	1189.5	1186.4	1163.5	1145.0	1138.1	1128.4
15°	1286.4	1246.1	1205.2	1157.4	1136.7	1108.2	1090.5	1072.7	1056.8	1045.5	1042.6
17.5°	1216.2	1164.1	1123.5	1089.0	1055.1	1026.0	1009.7	995.5	982.3	967.3	965.3
20°	1162.7	1117.7	1073.4	1043.1	1008.3	978.7	958.5	944.3	933.1	924.3	916.5
22.5°	1112.1	1062.8	1022.2	989.2	954.8	930.9	915.0	901.3	891.9	882.1	874.9
25°	1030.7	992.3	947.9	910.6	882.2	866.8	853.8	842.0	836.1	829.6	821.3
27.5°	959.6	916.9	875.4	846.5	821.5	807.9	798.7	790.6	785.1	781.2	776.5
30°	909.5	866.2	833.7	805.3	784.6	771.0	765.1	760.4	753.9	751.4	749.1
32.5°	861.1	822.2	794.4	769.8	750.0	741.2	735.8	731.5	726.4	724.0	719.3
35°	792.9	760.4	733.1	719.5	703.6	695.8	691.7	685.8	681.0	678.7	678.1
37.5°	728.6	700.3	682.4	664.9	658.2	653.4	647.8	643.7	642.3	641.9	641.4
40°	687.0	663.9	647.9	633.7	630.7	623.7	618.9	615.4	615.4	616.0	615.4
42.5°	649.1	628.4	614.3	602.0	598.5	594.3	589.6	589.3	590.3	592.3	590.3
45°	591.7	576.9	566.9	560.9	554.4	550.3	549.7	551.4	552.1	552.7	554.4
47.5°	539.0	529.1	520.0	513.4	510.6	509.9	509.2	512.3	515.1	516.2	518.9
50°	507.7	496.4	488.7	484.6	482.2	481.1	482.2	485.8	488.1	491.1	492.8
52.5°	472.6	464.7	459.4	456.2	455.2	455.9	456.2	460.2	464.0	465.0	465.9
55°	424.3	418.3	417.1	411.8	414.2	413.6	416.5	418.9	422.5	426.1	426.6
57.5°	375.9	371.2	368.0	368.5	369.3	371.8	374.3	378.4	382.3	386.0	386.4
60°	343.8	341.4	339.7	339.7	340.8	344.4	347.3	351.4	353.8	356.2	357.9
62.5°	314.4	312.1	310.3	311.2	314.3	316.5	319.9	322.1	324.5	326.8	327.7
65°	268.0	266.9	268.7	269.8	270.4	273.4	277.5	279.3	281.6	282.9	287.0
67.5°	225.3	225.5	225.3	226.9	230.4	231.1	235.1	239.2	239.6	241.9	244.6
70°	196.4	197.6	198.9	200.0	203.0	204.1	207.1	208.8	211.2	213.0	214.8
72.5°	170.0	170.1	171.4	171.1	173.6	176.2	178.7	180.5	182.8	185.1	186.8
75°	130.7	130.7	132.0	132.5	135.5	138.5	137.9	139.0	141.4	143.7	145.0
77.5°	95.5	94.2	95.5	96.1	97.0	99.5	100.0	101.7	104.3	103.5	104.9
80°	72.8	71.0	72.8	73.4	73.4	76.3	76.3	77.5	79.3	77.5	79.3
82.5°	52.0	51.1	52.4	52.5	53.5	53.6	54.6	54.8	56.5	55.7	56.5
85°	26.0	25.4	26.0	25.4	26.0	26.7	26.7	26.0	26.0	27.2	25.4
87.5°	9.9	9.8	9.6	9.9	9.7	9.5	9.3	9.5	9.6	8.9	9.0
90°	9.2	11.0	12.5	14.0	15.5	17.0	18.0	18.9	19.9	20.9	21.5
92.5°	16.5	16.8	17.5	18.3	19.0	19.8	20.2	20.8	21.2	21.8	22.1
95°	30.4	27.9	29.2	30.6	31.9	33.3	34.2	35.1	36.1	37.0	37.4
97.5°	39.5	32.2	35.3	38.3	41.4	44.5	45.2	46.0	46.7	47.5	48.0
100°	47.1	35.7	38.9	42.1	45.4	48.6	50.1	51.6	53.1	54.7	55.6
102.5°	173.8	157.7	130.7	103.8	76.9	49.9	51.9	53.9	55.8	57.8	59.0
105°	281.8	258.8	207.1	155.3	103.7	52.0	54.0	56.2	58.2	60.3	61.7
107.5°	349.5	320.7	258.8	196.7	134.7	72.8	70.6	68.5	66.4	64.3	63.6
110°	393.3	368.0	313.3	258.6	203.8	149.1	130.2	111.2	92.3	73.4	64.3



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CATALOG NUMBER: S122DIW-S865D970U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	435.2	430.2	416.7	403.1	389.6	376.1	307.0	237.9	168.9	99.8	65.5
115°	502.8	506.8	511.5	516.2	521.0	525.8	438.0	350.4	262.7	175.0	124.4
117.5°	565.9	569.3	572.6	575.8	579.1	582.3	561.1	539.8	518.7	497.5	464.5
120°	607.8	610.9	614.3	617.8	621.2	624.6	626.9	629.1	631.3	633.6	622.0
122.5°	646.6	650.0	653.6	657.4	661.0	664.8	666.1	667.5	668.9	670.2	668.4
125°	702.6	705.6	709.2	712.8	716.4	720.0	721.3	722.6	724.0	725.3	726.2
127.5°	756.3	759.0	761.7	764.4	767.0	769.7	771.7	773.6	775.5	777.5	778.5
130°	790.9	793.4	795.5	797.6	799.7	801.8	803.9	805.9	808.1	810.1	811.1
132.5°	823.1	825.5	827.6	829.6	831.7	833.8	835.6	837.4	839.2	841.0	841.8
135°	869.3	871.6	873.3	875.0	876.7	878.5	880.4	882.3	884.1	886.0	886.8
137.5°	910.4	912.5	914.4	916.3	918.3	920.2	922.1	923.9	925.8	927.6	928.3
140°	937.4	939.1	941.2	943.3	945.4	947.5	949.2	950.9	952.6	954.3	954.7
142.5°	961.3	963.1	965.5	968.0	970.4	972.7	974.3	975.8	977.4	978.9	979.2
145°	993.6	995.1	998.4	1001.6	1004.8	1008.0	1009.3	1010.7	1012.0	1013.3	1013.5
147.5°	1025.0	1026.3	1029.5	1032.6	1035.8	1039.0	1040.0	1041.0	1042.0	1042.9	1043.0
150°	1044.5	1045.3	1048.3	1051.3	1054.4	1057.4	1058.5	1059.7	1060.8	1061.9	1062.0
152.5°	1062.2	1062.9	1065.8	1068.7	1071.6	1074.4	1075.6	1076.7	1077.8	1079.0	1079.0
155°	1088.1	1088.3	1090.7	1092.9	1095.2	1097.4	1098.6	1099.7	1100.8	1102.0	1101.8
157.5°	1110.1	1110.2	1111.8	1113.4	1114.9	1116.5	1117.8	1119.1	1120.4	1121.7	1121.6
160°	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1129.3	1130.4	1131.5	1132.7	1132.6
162.5°	1134.5	1134.4	1135.4	1136.4	1137.4	1138.4	1139.6	1140.9	1142.2	1143.5	1143.4
165°	1149.1	1148.9	1149.4	1150.0	1150.6	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5
167.5°	1160.0	1159.8	1160.3	1160.8	1161.4	1161.9	1163.1	1164.5	1165.8	1167.2	1167.0
170°	1166.2	1165.8	1166.2	1166.5	1167.0	1167.3	1168.7	1170.0	1171.3	1172.6	1172.4
172.5°	1170.3	1169.9	1170.3	1170.6	1171.0	1171.4	1172.8	1174.0	1175.4	1176.7	1176.5
175°	1174.8	1174.3	1174.7	1175.1	1175.5	1175.8	1177.1	1178.5	1179.8	1181.2	1180.9
177.5°	1176.7	1176.3	1176.4	1176.5	1176.7	1176.9	1177.9	1179.0	1180.0	1181.1	1181.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



TEST NUMBER: P331567-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1476.6	1475.7	1475.7	1471.4	1475.7	1475.7	1476.6	1481.4	1482.7	1483.7	1481.8
5°	1369.8	1368.0	1365.0	1368.0	1365.0	1368.0	1369.8	1378.0	1382.2	1386.3	1389.9
7.5°	1264.1	1257.0	1255.9	1248.9	1255.9	1257.0	1264.1	1268.0	1276.3	1285.7	1294.1
10°	1187.0	1182.2	1181.6	1170.4	1181.6	1182.2	1187.0	1197.0	1205.2	1216.6	1228.3
12.5°	1128.3	1116.9	1119.1	1112.6	1119.1	1116.9	1128.3	1128.4	1138.1	1145.0	1163.5
15°	1026.6	1026.6	1024.2	1014.1	1024.2	1026.6	1026.6	1042.6	1045.5	1056.8	1072.7
17.5°	953.6	952.3	946.7	949.6	946.7	952.3	953.6	965.3	967.3	982.3	995.5
20°	910.0	906.5	899.4	899.4	899.4	906.5	910.0	916.5	924.3	933.1	944.3
22.5°	868.9	868.6	861.0	863.4	861.0	868.6	868.9	874.9	882.1	891.9	901.3
25°	820.6	815.9	812.4	814.1	812.4	815.9	820.6	821.3	829.6	836.1	842.0
27.5°	775.0	772.4	772.1	767.3	772.1	772.4	775.0	776.5	781.2	785.1	790.6
30°	748.5	742.6	743.8	740.8	743.8	742.6	748.5	749.1	751.4	753.9	760.4
32.5°	718.2	716.0	714.9	712.4	714.9	716.0	718.2	719.3	724.0	726.4	731.5
35°	676.9	677.5	674.5	675.7	674.5	677.5	676.9	678.1	678.7	681.0	685.8
37.5°	640.8	642.7	641.3	641.7	641.3	642.7	640.8	641.4	641.9	642.3	643.7
40°	617.2	617.2	617.2	618.9	617.2	617.2	617.2	615.4	616.0	615.4	615.4
42.5°	594.4	593.4	592.5	592.4	592.5	593.4	594.4	590.3	592.3	590.3	589.3
45°	555.6	557.4	557.9	555.0	557.9	557.4	555.6	554.4	552.7	552.1	551.4
47.5°	520.5	520.7	520.5	523.1	520.5	520.7	520.5	518.9	516.2	515.1	512.3
50°	495.9	494.6	495.9	494.6	495.9	494.6	495.9	492.8	491.1	488.1	485.8
52.5°	469.8	470.0	469.3	469.1	469.3	470.0	469.8	465.9	465.0	464.0	460.2
55°	429.0	430.2	429.5	429.5	429.5	430.2	429.0	426.6	426.1	422.5	418.9
57.5°	386.7	387.8	388.6	386.0	388.6	387.8	386.7	386.4	386.0	382.3	378.4
60°	357.4	360.3	359.7	358.6	359.7	360.3	357.4	357.9	356.2	353.8	351.4
62.5°	330.4	331.4	331.4	331.1	331.4	331.4	330.4	327.7	326.8	324.5	322.1
65°	288.7	289.9	288.1	289.9	288.1	289.9	288.7	287.0	282.9	281.6	279.3
67.5°	243.9	244.2	245.6	246.4	245.6	244.2	243.9	244.6	241.9	239.6	239.2
70°	216.0	215.3	217.1	218.9	217.1	215.3	216.0	214.8	213.0	211.2	208.8
72.5°	186.6	187.9	187.3	188.6	187.3	187.9	186.6	186.8	185.1	182.8	180.5
75°	143.7	145.5	145.0	146.8	145.0	145.5	143.7	145.0	143.7	141.4	139.0
77.5°	103.9	104.2	103.9	104.9	103.9	104.2	103.9	104.9	103.5	104.3	101.7
80°	79.3	78.1	77.0	79.3	77.0	78.1	79.3	79.3	77.5	79.3	77.5
82.5°	55.1	55.8	54.7	54.7	54.7	55.8	55.1	56.5	55.7	56.5	54.8
85°	25.4	24.9	23.6	23.6	23.6	24.9	25.4	25.4	27.2	26.0	26.0
87.5°	9.1	8.7	8.8	8.4	8.8	8.7	9.1	9.0	8.9	9.6	9.5
90°	21.8	22.2	22.6	23.0	22.6	22.2	21.8	21.5	20.9	19.9	18.9
92.5°	22.3	22.6	22.7	23.0	22.7	22.6	22.3	22.1	21.8	21.2	20.8
95°	37.2	37.0	36.8	36.6	36.8	37.0	37.2	37.4	37.0	36.1	35.1
97.5°	48.2	48.4	48.7	48.9	48.7	48.4	48.2	48.0	47.5	46.7	46.0
100°	55.9	56.4	56.7	57.1	56.7	56.4	55.9	55.6	54.7	53.1	51.6
102.5°	59.6	60.1	60.6	61.2	60.6	60.1	59.6	59.0	57.8	55.8	53.9
105°	62.5	63.2	64.0	64.7	64.0	63.2	62.5	61.7	60.3	58.2	56.2
107.5°	64.4	65.1	65.9	66.6	65.9	65.1	64.4	63.6	64.3	66.4	68.5
110°	65.0	65.8	66.5	67.3	66.5	65.8	65.0	64.3	73.4	92.3	111.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	66.2	66.8	67.4	68.0	67.4	66.8	66.2	65.5	99.8	168.9	237.9
115°	110.8	97.1	83.5	69.9	83.5	97.1	110.8	124.4	175.0	262.7	350.4
117.5°	419.6	374.9	330.1	285.3	330.1	374.9	419.6	464.5	497.5	518.7	539.8
120°	596.5	570.9	545.3	519.8	545.3	570.9	596.5	622.0	633.6	631.3	629.1
122.5°	663.4	658.5	653.5	648.6	653.5	658.5	663.4	668.4	670.2	668.9	667.5
125°	726.8	727.4	727.9	728.5	727.9	727.4	726.8	726.2	725.3	724.0	722.6
127.5°	778.6	778.7	778.8	778.9	778.8	778.7	778.6	778.5	777.5	775.5	773.6
130°	810.8	810.7	810.5	810.3	810.5	810.7	810.8	811.1	810.1	808.1	805.9
132.5°	841.5	841.3	841.2	841.0	841.2	841.3	841.5	841.8	841.0	839.2	837.4
135°	886.4	886.0	885.6	885.3	885.6	886.0	886.4	886.8	886.0	884.1	882.3
137.5°	927.6	926.9	926.3	925.7	926.3	926.9	927.6	928.3	927.6	925.8	923.9
140°	953.8	952.8	951.8	950.9	951.8	952.8	953.8	954.7	954.3	952.6	950.9
142.5°	978.3	977.3	976.4	975.4	976.4	977.3	978.3	979.2	978.9	977.4	975.8
145°	1012.5	1011.6	1010.7	1009.7	1010.7	1011.6	1012.5	1013.5	1013.3	1012.0	1010.7
147.5°	1042.2	1041.4	1040.6	1039.8	1040.6	1041.4	1042.2	1043.0	1042.9	1042.0	1041.0
150°	1061.1	1060.2	1059.2	1058.3	1059.2	1060.2	1061.1	1062.0	1061.9	1060.8	1059.7
152.5°	1077.7	1076.5	1075.2	1074.0	1075.2	1076.5	1077.7	1079.0	1079.0	1077.8	1076.7
155°	1100.3	1098.8	1097.3	1095.7	1097.3	1098.8	1100.3	1101.8	1102.0	1100.8	1099.7
157.5°	1120.1	1118.7	1117.1	1115.7	1117.1	1118.7	1120.1	1121.6	1121.7	1120.4	1119.1
160°	1131.2	1129.9	1128.6	1127.3	1128.6	1129.9	1131.2	1132.6	1132.7	1131.5	1130.4
162.5°	1141.7	1140.1	1138.4	1136.8	1138.4	1140.1	1141.7	1143.4	1143.5	1142.2	1140.9
165°	1155.1	1153.8	1152.4	1151.1	1152.4	1153.8	1155.1	1156.5	1156.5	1155.1	1153.8
167.5°	1165.3	1163.6	1161.9	1160.2	1161.9	1163.6	1165.3	1167.0	1167.2	1165.8	1164.5
170°	1170.7	1169.0	1167.3	1165.6	1167.3	1169.0	1170.7	1172.4	1172.6	1171.3	1170.0
172.5°	1174.8	1173.1	1171.4	1169.7	1171.4	1173.1	1174.8	1176.5	1176.7	1175.4	1174.0
175°	1178.9	1177.1	1175.2	1173.3	1175.2	1177.1	1178.9	1180.9	1181.2	1179.8	1178.5
177.5°	1179.6	1178.2	1176.9	1175.5	1176.9	1178.2	1179.6	1181.0	1181.1	1180.0	1179.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1479.4	1484.7	1492.7	1501.3	1506.5	1516.4	1519.2	1523.9	1528.2	1538.2	1548.5
5°	1394.0	1402.3	1421.8	1432.4	1447.2	1464.5	1475.7	1487.6	1500.6	1523.0	1543.7
7.5°	1302.4	1316.3	1340.5	1360.4	1381.4	1406.1	1423.9	1447.2	1466.7	1498.4	1528.7
10°	1241.4	1260.9	1282.8	1306.4	1336.1	1362.1	1387.0	1416.5	1440.2	1478.0	1513.6
12.5°	1186.4	1189.5	1220.8	1246.8	1287.3	1319.5	1348.1	1386.3	1409.4	1454.4	1491.7
15°	1090.5	1108.2	1136.7	1157.4	1205.2	1246.1	1286.4	1326.0	1352.6	1408.2	1457.3
17.5°	1009.7	1026.0	1055.1	1089.0	1123.5	1164.1	1216.2	1257.9	1294.1	1357.7	1415.8
20°	958.5	978.7	1008.3	1043.1	1073.4	1117.7	1162.7	1210.6	1249.6	1321.2	1389.3
22.5°	915.0	930.9	954.8	989.2	1022.2	1062.8	1112.1	1164.2	1205.1	1282.5	1351.4
25°	853.8	866.8	882.2	910.6	947.9	992.3	1030.7	1088.2	1147.9	1220.0	1303.5
27.5°	798.7	807.9	821.5	846.5	875.4	916.9	959.6	1014.1	1074.2	1152.5	1240.5
30°	765.1	771.0	784.6	805.3	833.7	866.2	909.5	961.5	1023.1	1102.3	1189.9
32.5°	735.8	741.2	750.0	769.8	794.4	822.2	861.1	913.2	971.9	1049.8	1146.8
35°	691.7	695.8	703.6	719.5	733.1	760.4	792.9	840.2	895.2	969.8	1070.4
37.5°	647.8	653.4	658.2	664.9	682.4	700.3	728.6	768.6	822.6	897.9	993.7
40°	618.9	623.7	630.7	633.7	647.9	663.9	687.0	723.6	778.1	846.7	940.2
42.5°	589.6	594.3	598.5	602.0	614.3	628.4	649.1	680.6	728.9	795.6	888.1
45°	549.7	550.3	554.4	560.9	566.9	576.9	591.7	618.9	656.2	718.9	802.9
47.5°	509.2	509.9	510.6	513.4	520.0	529.1	539.0	561.1	594.4	644.4	726.2
50°	482.2	481.1	482.2	484.6	488.7	496.4	507.7	523.6	550.9	597.6	672.8
52.5°	456.2	455.9	455.2	456.2	459.4	464.7	472.6	486.2	510.6	553.6	619.7
55°	416.5	413.6	414.2	411.8	417.1	418.3	424.3	435.5	456.8	486.3	548.5
57.5°	374.3	371.8	369.3	368.5	368.0	371.2	375.9	384.9	401.2	427.0	477.5
60°	347.3	344.4	340.8	339.7	339.7	341.4	343.8	350.3	365.7	388.8	430.2
62.5°	319.9	316.5	314.3	311.2	310.3	312.1	314.4	319.1	330.2	351.8	387.5
65°	277.5	273.4	270.4	269.8	268.7	266.9	268.0	272.8	281.6	298.8	327.2
67.5°	235.1	231.1	230.4	226.9	225.3	225.5	225.3	229.3	234.7	249.5	270.6
70°	207.1	204.1	203.0	200.0	198.9	197.6	196.4	200.0	205.4	217.8	236.1
72.5°	178.7	176.2	173.6	171.1	171.4	170.1	170.0	172.1	176.5	187.9	202.0
75°	137.9	138.5	135.5	132.5	132.0	130.7	130.7	132.5	134.3	143.2	154.4
77.5°	100.0	99.5	97.0	96.1	95.5	94.2	95.5	96.7	97.6	103.5	111.8
80°	76.3	76.3	73.4	73.4	72.8	71.0	72.8	71.6	73.9	79.9	85.8
82.5°	54.6	53.6	53.5	52.5	52.4	51.1	52.0	53.1	54.0	58.1	61.6
85°	26.7	26.7	26.0	25.4	26.0	25.4	26.0	26.7	27.2	29.0	31.9
87.5°	9.3	9.5	9.7	9.9	9.6	9.8	9.9	9.9	10.4	10.5	10.6
90°	18.0	17.0	15.5	14.0	12.5	11.0	9.2	7.1	5.0	2.9	0.9
92.5°	20.2	19.8	19.0	18.3	17.5	16.8	16.5	16.7	16.9	17.0	17.2
95°	34.2	33.3	31.9	30.6	29.2	27.9	30.4	36.6	42.9	49.1	55.4
97.5°	45.2	44.5	41.4	38.3	35.3	32.2	39.5	57.1	74.7	92.3	109.9
100°	50.1	48.6	45.4	42.1	38.9	35.7	47.1	73.0	98.9	124.8	150.8
102.5°	51.9	49.9	76.9	103.8	130.7	157.7	173.8	179.3	184.9	190.3	195.8
105°	54.0	52.0	103.7	155.3	207.1	258.8	281.8	276.1	270.4	264.7	259.0
107.5°	70.6	72.8	134.7	196.7	258.8	320.7	349.5	344.8	340.3	335.7	331.1
110°	130.2	149.1	203.8	258.6	313.3	368.0	393.3	389.4	385.4	381.5	377.5



TEST NUMBER: P331567-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	307.0	376.1	389.6	403.1	416.7	430.2	435.2	431.7	428.1	424.6	421.1
115°	438.0	525.8	521.0	516.2	511.5	506.8	502.8	499.6	496.4	493.1	489.9
117.5°	561.1	582.3	579.1	575.8	572.6	569.3	565.9	562.2	558.7	555.1	551.4
120°	626.9	624.6	621.2	617.8	614.3	610.9	607.8	604.9	602.1	599.3	596.5
122.5°	666.1	664.8	661.0	657.4	653.6	650.0	646.6	643.5	640.6	637.6	634.6
125°	721.3	720.0	716.4	712.8	709.2	705.6	702.6	700.1	697.7	695.2	692.7
127.5°	771.7	769.7	767.0	764.4	761.7	759.0	756.3	753.6	750.8	748.1	745.4
130°	803.9	801.8	799.7	797.6	795.5	793.4	790.9	787.8	784.9	781.9	778.8
132.5°	835.6	833.8	831.7	829.6	827.6	825.5	823.1	820.6	818.1	815.5	812.9
135°	880.4	878.5	876.7	875.0	873.3	871.6	869.3	866.3	863.3	860.2	857.2
137.5°	922.1	920.2	918.3	916.3	914.4	912.5	910.4	908.4	906.2	904.1	902.0
140°	949.2	947.5	945.4	943.3	941.2	939.1	937.4	935.9	934.3	932.8	931.3
142.5°	974.3	972.7	970.4	968.0	965.5	963.1	961.3	959.9	958.6	957.2	955.8
145°	1009.3	1008.0	1004.8	1001.6	998.4	995.1	993.6	993.8	994.0	994.2	994.3
147.5°	1040.0	1039.0	1035.8	1032.6	1029.5	1026.3	1025.0	1025.7	1026.4	1027.2	1028.0
150°	1058.5	1057.4	1054.4	1051.3	1048.3	1045.3	1044.5	1045.8	1047.0	1048.4	1049.7
152.5°	1075.6	1074.4	1071.6	1068.7	1065.8	1062.9	1062.2	1063.7	1065.1	1066.7	1068.2
155°	1098.6	1097.4	1095.2	1092.9	1090.7	1088.3	1088.1	1089.8	1091.5	1093.1	1094.9
157.5°	1117.8	1116.5	1114.9	1113.4	1111.8	1110.2	1110.1	1111.5	1112.9	1114.5	1115.9
160°	1129.3	1128.1	1127.0	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1
162.5°	1139.6	1138.4	1137.4	1136.4	1135.4	1134.4	1134.5	1135.6	1136.8	1137.9	1139.1
165°	1152.4	1151.1	1150.6	1150.0	1149.4	1148.9	1149.1	1150.3	1151.4	1152.5	1153.7
167.5°	1163.1	1161.9	1161.4	1160.8	1160.3	1159.8	1160.0	1161.2	1162.3	1163.4	1164.6
170°	1168.7	1167.3	1167.0	1166.5	1166.2	1165.8	1166.2	1167.3	1168.5	1169.6	1170.7
172.5°	1172.8	1171.4	1171.0	1170.6	1170.3	1169.9	1170.3	1171.4	1172.5	1173.7	1174.8
175°	1177.1	1175.8	1175.5	1175.1	1174.7	1174.3	1174.8	1176.2	1177.4	1178.8	1180.1
177.5°	1177.9	1176.9	1176.7	1176.5	1176.4	1176.3	1176.7	1177.8	1178.8	1179.9	1181.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1547.7	1550.0	1557.6	1565.1	1573.7	1576.0	1579.8	1576.5	1575.6	1584.6	1591.2
5°	1552.0	1562.6	1583.4	1602.3	1618.3	1629.5	1641.4	1646.1	1654.9	1667.4	1682.7
7.5°	1547.0	1567.7	1600.3	1627.9	1658.0	1679.5	1696.5	1710.9	1728.5	1752.0	1777.7
10°	1541.3	1569.1	1608.8	1642.5	1679.2	1707.0	1730.1	1752.6	1778.6	1811.2	1844.9
12.5°	1531.0	1564.0	1613.6	1653.4	1700.5	1727.9	1759.0	1807.5	1835.4	1880.8	1928.2
15°	1510.0	1546.7	1615.9	1665.0	1718.2	1770.3	1827.7	1873.9	1920.0	1946.7	2013.6
17.5°	1478.9	1532.8	1609.4	1666.7	1734.4	1816.4	1880.9	1933.1	1986.5	2029.6	2063.2
20°	1453.8	1512.3	1599.9	1668.6	1749.0	1837.2	1911.2	1964.4	2010.5	2046.7	2067.3
22.5°	1422.1	1495.8	1581.0	1661.4	1764.2	1851.4	1929.1	1971.0	2009.6	2027.2	2035.2
25°	1372.2	1460.9	1557.4	1655.6	1771.6	1863.9	1934.8	1960.2	1971.5	1954.4	1925.9
27.5°	1318.3	1417.2	1530.0	1644.4	1767.0	1855.7	1906.7	1902.6	1883.6	1828.1	1783.7
30°	1278.1	1387.0	1508.2	1633.1	1756.1	1842.5	1872.1	1842.5	1799.3	1737.2	1673.9
32.5°	1235.9	1348.6	1485.1	1616.9	1736.3	1812.2	1818.6	1767.7	1700.8	1630.2	1551.3
35°	1172.2	1294.1	1441.4	1581.0	1694.0	1742.0	1713.5	1623.6	1544.4	1447.9	1340.2
37.5°	1100.1	1234.7	1382.4	1528.3	1630.7	1643.2	1572.7	1478.0	1366.2	1252.9	1126.1
40°	1046.2	1188.7	1340.8	1488.1	1578.6	1565.6	1475.7	1371.5	1238.4	1099.9	982.2
42.5°	997.8	1140.4	1295.3	1439.8	1512.3	1476.6	1371.5	1243.8	1100.6	970.3	862.5
45°	914.2	1060.9	1219.5	1359.1	1400.5	1336.1	1197.0	1055.0	914.2	805.3	720.1
47.5°	832.9	978.0	1135.1	1257.8	1272.5	1185.7	1033.8	887.7	766.6	678.0	617.9
50°	773.4	918.9	1074.5	1184.0	1179.2	1074.5	918.3	779.3	678.1	606.5	566.2
52.5°	719.9	857.4	1006.8	1106.3	1081.3	967.1	818.0	694.6	611.4	555.4	518.9
55°	636.7	763.8	905.9	985.8	939.6	813.0	687.0	587.5	526.0	484.0	455.6
57.5°	554.0	673.3	794.9	844.1	793.1	676.2	571.1	499.0	452.7	421.6	403.1
60°	502.9	607.1	715.3	758.0	697.1	592.9	510.1	445.6	408.2	382.8	366.2
62.5°	451.8	545.1	647.2	670.4	614.7	526.6	453.3	399.7	369.0	346.3	330.7
65°	382.3	458.5	536.1	551.4	500.0	431.9	374.0	339.0	311.8	295.2	282.9
67.5°	313.4	374.8	429.7	442.1	397.0	349.8	307.9	277.5	259.0	245.3	234.8
70°	272.8	321.3	366.2	376.3	340.2	298.2	266.3	242.0	225.4	213.6	203.6
72.5°	229.7	270.2	307.6	314.3	284.8	252.8	226.5	207.4	192.8	185.2	175.6
75°	175.8	199.4	228.4	230.2	210.6	191.1	171.0	158.5	150.9	141.4	136.7
77.5°	124.0	142.6	159.2	162.4	150.8	137.5	126.3	116.5	109.9	105.6	101.2
80°	94.7	109.5	116.5	120.7	112.4	103.0	96.5	90.0	85.8	82.8	79.9
82.5°	67.7	76.8	83.5	86.6	82.1	76.4	69.9	66.3	63.0	60.5	59.6
85°	34.3	38.4	42.6	43.8	42.6	40.2	36.6	36.6	34.9	34.3	34.3
87.5°	12.4	14.7	15.2	16.9	16.4	16.7	17.0	16.9	16.7	16.4	16.1
90°	2.9	5.0	7.1	9.2	11.0	12.5	14.0	15.5	17.0	18.0	18.9
92.5°	17.0	16.9	16.7	16.5	16.8	17.5	18.3	19.0	19.8	20.2	20.8
95°	49.1	42.9	36.6	30.4	27.9	29.2	30.6	31.9	33.3	34.2	35.1
97.5°	92.3	74.7	57.1	39.5	32.2	35.3	38.3	41.4	44.5	45.2	46.0
100°	124.8	98.9	73.0	47.1	35.7	38.9	42.1	45.4	48.6	50.1	51.6
102.5°	190.3	184.9	179.3	173.8	157.7	130.7	103.8	76.9	49.9	51.9	53.9
105°	264.7	270.4	276.1	281.8	258.8	207.1	155.3	103.7	52.0	54.0	56.2
107.5°	335.7	340.3	344.8	349.5	320.7	258.8	196.7	134.7	72.8	70.6	68.5
110°	381.5	385.4	389.4	393.3	368.0	313.3	258.6	203.8	149.1	130.2	111.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	424.6	428.1	431.7	435.2	430.2	416.7	403.1	389.6	376.1	307.0	237.9
115°	493.1	496.4	499.6	502.8	506.8	511.5	516.2	521.0	525.8	438.0	350.4
117.5°	555.1	558.7	562.2	565.9	569.3	572.6	575.8	579.1	582.3	561.1	539.8
120°	599.3	602.1	604.9	607.8	610.9	614.3	617.8	621.2	624.6	626.9	629.1
122.5°	637.6	640.6	643.5	646.6	650.0	653.6	657.4	661.0	664.8	666.1	667.5
125°	695.2	697.7	700.1	702.6	705.6	709.2	712.8	716.4	720.0	721.3	722.6
127.5°	748.1	750.8	753.6	756.3	759.0	761.7	764.4	767.0	769.7	771.7	773.6
130°	781.9	784.9	787.8	790.9	793.4	795.5	797.6	799.7	801.8	803.9	805.9
132.5°	815.5	818.1	820.6	823.1	825.5	827.6	829.6	831.7	833.8	835.6	837.4
135°	860.2	863.3	866.3	869.3	871.6	873.3	875.0	876.7	878.5	880.4	882.3
137.5°	904.1	906.2	908.4	910.4	912.5	914.4	916.3	918.3	920.2	922.1	923.9
140°	932.8	934.3	935.9	937.4	939.1	941.2	943.3	945.4	947.5	949.2	950.9
142.5°	957.2	958.6	959.9	961.3	963.1	965.5	968.0	970.4	972.7	974.3	975.8
145°	994.2	994.0	993.8	993.6	995.1	998.4	1001.6	1004.8	1008.0	1009.3	1010.7
147.5°	1027.2	1026.4	1025.7	1025.0	1026.3	1029.5	1032.6	1035.8	1039.0	1040.0	1041.0
150°	1048.4	1047.0	1045.8	1044.5	1045.3	1048.3	1051.3	1054.4	1057.4	1058.5	1059.7
152.5°	1066.7	1065.1	1063.7	1062.2	1062.9	1065.8	1068.7	1071.6	1074.4	1075.6	1076.7
155°	1093.1	1091.5	1089.8	1088.1	1088.3	1090.7	1092.9	1095.2	1097.4	1098.6	1099.7
157.5°	1114.5	1112.9	1111.5	1110.1	1110.2	1111.8	1113.4	1114.9	1116.5	1117.8	1119.1
160°	1127.0	1125.9	1124.7	1123.6	1123.6	1124.7	1125.9	1127.0	1128.1	1129.3	1130.4
162.5°	1137.9	1136.8	1135.6	1134.5	1134.4	1135.4	1136.4	1137.4	1138.4	1139.6	1140.9
165°	1152.5	1151.4	1150.3	1149.1	1148.9	1149.4	1150.0	1150.6	1151.1	1152.4	1153.8
167.5°	1163.4	1162.3	1161.2	1160.0	1159.8	1160.3	1160.8	1161.4	1161.9	1163.1	1164.5
170°	1169.6	1168.5	1167.3	1166.2	1165.8	1166.2	1166.5	1167.0	1167.3	1168.7	1170.0
172.5°	1173.7	1172.5	1171.4	1170.3	1169.9	1170.3	1170.6	1171.0	1171.4	1172.8	1174.0
175°	1178.8	1177.4	1176.2	1174.8	1174.3	1174.7	1175.1	1175.5	1175.8	1177.1	1178.5
177.5°	1179.9	1178.8	1177.8	1176.7	1176.3	1176.4	1176.5	1176.7	1176.9	1177.9	1179.0
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1596.9	1603.5	1603.5	1604.5	1612.0	1611.1	1610.6
5°	1699.3	1709.4	1710.6	1721.3	1728.3	1726.0	1719.5
7.5°	1796.0	1814.7	1828.9	1836.8	1846.2	1852.0	1849.4
10°	1872.7	1899.9	1916.5	1927.7	1941.3	1951.4	1947.9
12.5°	1942.3	1974.7	1997.4	2016.7	2018.5	2031.4	2022.7
15°	2050.8	2085.1	2088.7	2102.8	2114.2	2112.9	2113.5
17.5°	2086.7	2097.7	2099.9	2100.2	2100.4	2096.2	2087.2
20°	2073.9	2069.7	2059.7	2052.0	2038.4	2036.6	2024.8
22.5°	2013.3	2000.2	1975.0	1958.3	1937.1	1931.5	1928.2
25°	1894.0	1865.0	1824.8	1786.3	1775.7	1755.0	1760.9
27.5°	1730.4	1685.2	1641.6	1610.3	1582.1	1551.0	1560.0
30°	1615.3	1564.4	1502.9	1455.5	1425.4	1395.8	1390.4
32.5°	1478.0	1403.5	1334.9	1293.2	1247.0	1228.2	1207.7
35°	1241.4	1168.6	1100.5	1042.0	1008.3	982.2	958.5
37.5°	1028.5	944.7	889.7	842.3	818.0	803.1	806.8
40°	896.4	823.0	782.8	746.7	724.2	713.5	716.0
42.5°	789.4	734.5	701.4	676.6	660.8	654.9	653.4
45°	668.0	637.2	610.0	595.8	588.2	581.7	577.5
47.5°	585.1	560.1	544.7	536.3	529.6	522.9	522.8
50°	535.5	518.9	508.3	499.4	494.1	489.4	493.5
52.5°	497.6	482.5	471.8	463.9	461.9	457.6	457.5
55°	441.4	429.5	421.9	414.7	411.3	408.8	405.9
57.5°	390.3	379.1	371.9	367.5	360.7	358.3	357.4
60°	353.8	344.9	337.9	331.9	329.0	324.2	324.2
62.5°	320.2	311.4	304.7	300.2	295.3	293.5	294.0
65°	271.6	264.5	258.0	253.2	252.1	248.5	249.7
67.5°	226.9	222.1	215.3	212.7	210.4	208.5	207.1
70°	197.1	192.3	188.8	185.2	183.4	183.4	183.4
72.5°	171.9	166.3	164.2	159.6	160.7	158.8	156.9
75°	133.1	129.6	127.8	126.0	123.1	123.1	123.1
77.5°	98.0	96.9	94.8	92.9	92.2	91.6	91.8
80°	75.7	75.2	73.9	73.9	72.8	72.2	71.0
82.5°	58.2	56.7	56.0	55.5	55.3	55.1	54.9
85°	33.2	31.9	31.9	32.5	31.4	31.4	31.9
87.5°	16.8	16.9	16.6	16.7	17.2	16.9	16.9
90°	19.9	20.9	21.5	21.8	22.2	22.6	23.0
92.5°	21.2	21.8	22.1	22.3	22.6	22.7	23.0
95°	36.1	37.0	37.4	37.2	37.0	36.8	36.6
97.5°	46.7	47.5	48.0	48.2	48.4	48.7	48.9
100°	53.1	54.7	55.6	55.9	56.4	56.7	57.1
102.5°	55.8	57.8	59.0	59.6	60.1	60.6	61.2
105°	58.2	60.3	61.7	62.5	63.2	64.0	64.7
107.5°	66.4	64.3	63.6	64.4	65.1	65.9	66.6
110°	92.3	73.4	64.3	65.0	65.8	66.5	67.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	168.9	99.8	65.5	66.2	66.8	67.4	68.0
115°	262.7	175.0	124.4	110.8	97.1	83.5	69.9
117.5°	518.7	497.5	464.5	419.6	374.9	330.1	285.3
120°	631.3	633.6	622.0	596.5	570.9	545.3	519.8
122.5°	668.9	670.2	668.4	663.4	658.5	653.5	648.6
125°	724.0	725.3	726.2	726.8	727.4	727.9	728.5
127.5°	775.5	777.5	778.5	778.6	778.7	778.8	778.9
130°	808.1	810.1	811.1	810.8	810.7	810.5	810.3
132.5°	839.2	841.0	841.8	841.5	841.3	841.2	841.0
135°	884.1	886.0	886.8	886.4	886.0	885.6	885.3
137.5°	925.8	927.6	928.3	927.6	926.9	926.3	925.7
140°	952.6	954.3	954.7	953.8	952.8	951.8	950.9
142.5°	977.4	978.9	979.2	978.3	977.3	976.4	975.4
145°	1012.0	1013.3	1013.5	1012.5	1011.6	1010.7	1009.7
147.5°	1042.0	1042.9	1043.0	1042.2	1041.4	1040.6	1039.8
150°	1060.8	1061.9	1062.0	1061.1	1060.2	1059.2	1058.3
152.5°	1077.8	1079.0	1079.0	1077.7	1076.5	1075.2	1074.0
155°	1100.8	1102.0	1101.8	1100.3	1098.8	1097.3	1095.7
157.5°	1120.4	1121.7	1121.6	1120.1	1118.7	1117.1	1115.7
160°	1131.5	1132.7	1132.6	1131.2	1129.9	1128.6	1127.3
162.5°	1142.2	1143.5	1143.4	1141.7	1140.1	1138.4	1136.8
165°	1155.1	1156.5	1156.5	1155.1	1153.8	1152.4	1151.1
167.5°	1165.8	1167.2	1167.0	1165.3	1163.6	1161.9	1160.2
170°	1171.3	1172.6	1172.4	1170.7	1169.0	1167.3	1165.6
172.5°	1175.4	1176.7	1176.5	1174.8	1173.1	1171.4	1169.7
175°	1179.8	1181.2	1180.9	1178.9	1177.1	1175.2	1173.3
177.5°	1180.0	1181.1	1181.0	1179.6	1178.2	1176.9	1175.5
180°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5

(END OF REPORT)