

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: P331458-930

Luminaire Tested: **S122DIP-S1005D1080U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331458-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S1005D1080U930-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7018.3 lumens
Efficiency: N/A
Efficacy: 97.9 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

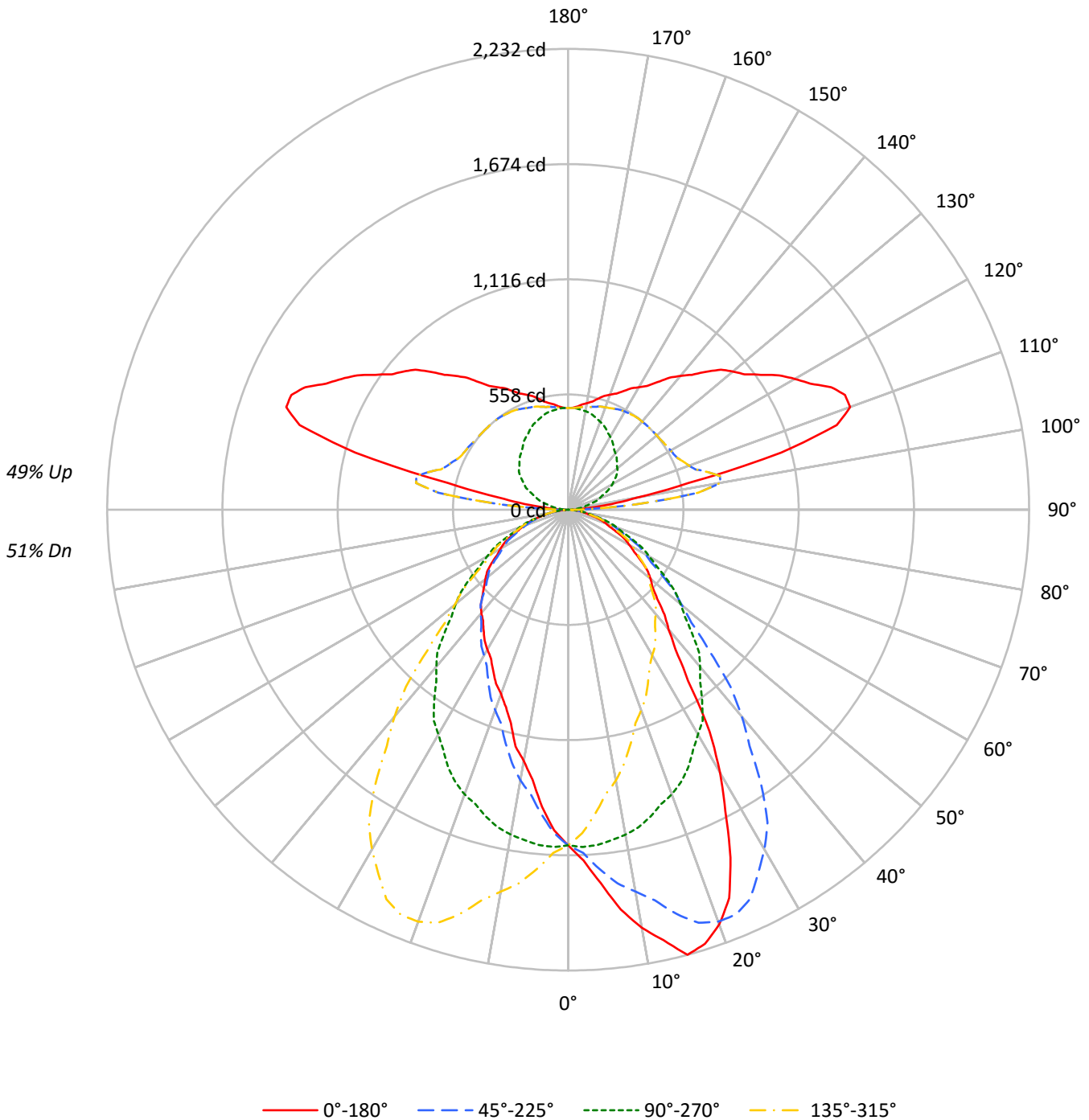
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	73	66	61	76	68	62	57	58	54	50	49	46	43	41	39	36	33
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	51	45	64	54	47	42	47	42	37	40	36	33	34	31	28	25
6	64	53	45	39	59	49	42	37	43	37	33	36	32	29	31	27	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	31	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	24	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26248	26248	26248	26248
5°	29428	26420	23412	26420
10°	33721	26202	20261	26202
15°	37305	25723	17901	25723
20°	36737	25206	16318	25206
25°	33127	24522	15316	24522
30°	27374	23426	14585	23426
35°	19951	22277	14063	22277
40°	15934	20925	13774	20925
45°	13924	19358	13381	19358
50°	13089	17844	13122	17844
55°	12065	16304	12769	16304
60°	11057	14667	12226	14667
65°	10074	13200	11694	13200
70°	9144	11769	10914	11769
75°	8110	10175	9669	10175
80°	6974	8424	7782	8424
85°	6262	6262	4631	6262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	2.2
10°-20°	450.1	6.4
20°-30°	653.3	9.3
30°-40°	689.3	9.8
40°-50°	610.4	8.7
50°-60°	487.1	6.9
60°-70°	331.1	4.7
70°-80°	169.7	2.4
80°-90°	45.4	0.6
90°-100°	196.9	2.8
100°-110°	668.2	9.5
110°-120°	709.9	10.1
120°-130°	584.4	8.3
130°-140°	469.3	6.7
140°-150°	354.6	5.1
150°-160°	249.2	3.6
160°-170°	146.7	2.1
170°-180°	47.8	0.7
0°-30°	1258.2	17.9
0°-40°	1947.5	27.7
0°-60°	3045.0	43.4
0°-90°	3591.2	51.2
90°-120°	1575.1	22.4
90°-150°	2983.4	42.5
90°-180°	3427.0	48.8
0°-180°	7018.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1816	1630	1444	1630	1816	181
15°	2232	1539	1071	1539	2232	616
25°	1860	1376	860	1376	1860	840
35°	1012	1130	714	1130	1012	658
45°	610	848	586	848	610	480
55°	429	579	454	579	429	384
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	38
90°	31	1	31	1	31	18
95°	108	33	108	33	108	140
105°	1067	116	1067	116	1067	1033
115°	1405	204	1405	204	1405	1375
125°	1139	284	1139	284	1139	1030
135°	944	333	944	333	944	734
145°	754	381	754	381	754	479
155°	634	433	634	433	634	296
165°	556	472	556	472	556	159
175°	501	492	501	492	501	49
180°	492	492	492	492	492	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1700.7	1701.2	1702.2	1694.2	1693.2	1693.2	1686.2	1680.3	1673.2	1663.7	1664.8
5°	1815.7	1822.5	1825.0	1817.5	1806.3	1805.1	1794.5	1776.9	1760.7	1747.6	1738.2
7.5°	1952.9	1955.7	1949.5	1939.7	1931.3	1916.3	1896.5	1877.1	1850.1	1825.2	1806.7
10°	2056.8	2060.6	2050.0	2035.6	2023.7	2006.3	1977.5	1948.2	1912.5	1878.2	1850.6
12.5°	2135.8	2145.1	2131.4	2129.6	2109.3	2085.2	2051.0	2036.1	1986.0	1938.1	1908.7
15°	2231.8	2231.1	2232.5	2220.5	2205.5	2201.8	2165.6	2126.2	2055.6	2027.5	1978.7
17.5°	2204.1	2213.5	2217.9	2217.8	2217.5	2215.1	2203.4	2178.6	2143.2	2097.6	2041.3
20°	2138.1	2150.6	2152.5	2166.8	2175.0	2185.6	2190.0	2183.0	2161.2	2123.1	2074.4
22.5°	2036.1	2039.6	2045.5	2067.8	2085.5	2112.1	2126.0	2149.0	2140.7	2122.1	2081.4
25°	1859.5	1853.2	1875.0	1886.3	1926.9	1969.4	2000.0	2033.8	2063.8	2081.9	2070.0
27.5°	1647.2	1637.9	1670.6	1700.5	1733.5	1779.5	1827.2	1883.5	1930.4	1989.0	2009.1
30°	1468.3	1473.9	1505.1	1537.0	1587.0	1652.0	1705.7	1767.6	1834.4	1900.1	1945.6
32.5°	1275.4	1297.0	1316.7	1365.5	1409.6	1482.1	1560.7	1638.1	1721.5	1796.1	1866.7
35°	1012.2	1037.1	1064.7	1100.2	1162.1	1234.0	1310.8	1415.2	1528.9	1630.8	1714.5
37.5°	852.0	848.0	863.7	889.5	939.6	997.6	1086.1	1189.1	1323.0	1442.7	1560.7
40°	756.0	753.5	764.8	788.5	826.6	869.1	946.6	1037.1	1161.5	1307.7	1448.3
42.5°	690.1	691.5	697.8	714.5	740.6	775.6	833.6	910.7	1024.6	1162.3	1313.4
45°	609.8	614.2	621.1	629.2	644.2	672.9	705.4	760.4	850.4	965.3	1114.0
47.5°	552.0	552.2	559.2	566.3	575.2	591.4	617.9	652.4	715.9	809.5	937.3
50°	521.1	516.7	521.7	527.3	536.7	548.0	565.4	597.9	640.4	716.0	822.9
52.5°	483.1	483.2	487.7	489.8	498.2	509.5	525.5	548.0	586.4	645.6	733.4
55°	428.6	431.7	434.2	438.0	445.5	453.6	466.1	481.1	511.1	555.5	620.4
57.5°	377.4	378.4	380.9	388.0	392.7	400.2	412.1	425.7	445.2	478.1	526.9
60°	342.4	342.4	347.4	350.5	356.8	364.3	373.7	386.8	404.2	431.1	470.5
62.5°	310.4	309.9	311.9	317.0	321.8	328.8	338.1	349.3	365.7	389.6	422.0
65°	263.7	262.4	266.2	267.4	272.4	279.3	286.8	298.6	311.8	329.3	358.0
67.5°	218.7	220.2	222.2	224.5	227.3	234.6	239.5	247.9	259.0	273.5	293.0
70°	193.7	193.7	193.7	195.6	199.3	203.1	208.1	214.9	225.6	238.1	255.5
72.5°	165.7	167.7	169.7	168.6	173.3	175.5	181.6	185.5	195.6	203.6	219.1
75°	130.0	130.0	130.0	133.1	134.9	136.8	140.6	144.3	149.4	159.3	167.5
77.5°	96.9	96.7	97.3	98.1	100.1	102.3	103.5	106.8	111.5	116.1	122.9
80°	75.0	76.2	76.9	78.1	78.1	79.3	80.0	84.4	87.5	90.6	95.0
82.5°	58.0	58.2	58.4	58.6	59.1	59.8	61.5	62.9	64.0	66.6	70.0
85°	33.8	33.1	33.1	34.3	33.8	33.8	35.0	36.2	36.2	36.9	38.7
87.5°	19.2	19.2	19.7	19.2	19.2	19.6	19.2	19.1	19.7	20.5	20.7
90°	31.2	31.2	31.2	31.2	31.2	30.3	28.5	30.3	31.2	32.2	31.2
92.5°	52.5	54.0	53.2	56.3	57.0	62.9	70.8	82.6	104.0	123.1	121.4
95°	107.9	107.0	109.9	117.4	129.7	150.6	190.4	248.2	324.9	371.3	328.6
97.5°	212.5	220.5	234.3	257.6	302.9	371.3	473.8	579.0	664.9	633.8	477.4
100°	339.1	356.1	383.6	424.3	502.9	617.5	747.3	864.7	884.6	748.2	515.2
102.5°	596.7	619.8	654.1	723.6	809.0	930.4	1025.3	1051.9	966.5	752.0	500.8
105°	1067.4	1080.7	1121.4	1180.1	1238.8	1270.1	1257.8	1150.7	953.7	701.8	472.6
107.5°	1363.4	1381.0	1389.2	1392.4	1385.0	1339.2	1240.7	1079.5	870.6	648.0	458.6
110°	1452.9	1453.8	1445.3	1427.3	1386.6	1308.9	1187.6	1018.1	818.3	622.2	455.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1451.3	1446.3	1430.1	1400.0	1343.4	1254.3	1124.8	962.1	782.0	605.6	456.3
115°	1404.6	1396.0	1371.4	1327.9	1260.6	1163.0	1039.0	893.2	736.9	587.2	460.3
117.5°	1321.0	1313.9	1287.8	1241.9	1173.3	1081.8	969.3	841.2	708.4	578.3	467.1
120°	1267.2	1257.8	1230.3	1185.8	1119.5	1033.3	932.9	815.5	693.2	573.0	471.7
122.5°	1211.1	1203.2	1178.8	1135.0	1075.5	997.7	902.6	795.0	680.4	570.0	477.0
125°	1139.4	1131.8	1108.2	1072.1	1017.2	946.2	862.8	765.2	662.0	564.5	484.9
127.5°	1076.5	1070.4	1049.9	1016.3	968.3	902.8	824.2	735.9	645.0	561.3	493.1
130°	1040.9	1033.3	1014.4	982.2	935.7	873.3	798.4	717.0	633.7	559.7	499.1
132.5°	1003.7	996.9	979.5	947.3	901.6	842.9	774.2	698.8	624.5	559.0	505.2
135°	944.3	940.4	923.4	892.2	851.4	798.4	735.9	673.4	611.8	557.8	512.4
137.5°	885.9	880.3	865.3	838.4	801.3	755.0	705.4	653.1	602.9	557.7	518.9
140°	845.8	840.1	825.9	801.3	770.9	729.3	685.7	640.3	597.6	556.9	521.9
142.5°	805.6	804.5	791.8	769.4	740.6	705.8	668.3	629.7	592.3	556.9	524.2
145°	753.9	751.1	741.6	725.5	702.8	675.3	646.0	614.7	585.3	555.0	526.6
147.5°	710.5	708.8	702.4	689.5	670.7	650.7	627.8	603.2	578.1	551.6	527.3
150°	684.8	683.8	678.2	666.8	652.6	635.5	615.6	594.8	572.0	549.3	526.6
152.5°	662.8	662.6	658.4	648.6	637.4	622.6	605.8	586.4	566.7	545.5	525.1
155°	633.7	635.5	631.7	625.1	614.7	604.2	590.0	574.9	556.9	538.9	522.8
157.5°	608.8	608.8	607.1	601.6	594.2	586.0	574.1	561.4	547.6	532.1	518.4
160°	592.9	592.9	591.9	587.2	580.6	574.0	563.5	553.1	540.8	527.6	516.2
162.5°	577.7	578.5	577.6	574.3	567.7	562.6	553.7	544.8	534.8	523.7	513.9
165°	556.0	556.9	556.9	553.1	549.3	545.5	538.9	532.3	524.7	516.2	509.6
167.5°	535.9	537.0	537.2	535.1	533.5	530.0	525.5	520.3	514.9	509.6	505.2
170°	523.7	525.6	526.6	523.7	522.8	520.9	517.1	514.3	509.6	505.7	502.9
172.5°	513.9	515.0	516.0	514.7	513.7	512.6	509.6	507.4	504.3	501.2	499.9
175°	501.0	502.9	503.9	502.9	502.9	502.0	501.0	500.1	497.3	496.3	495.4
177.5°	493.3	494.8	495.5	495.5	495.5	495.5	494.8	494.8	493.3	492.5	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1668.3	1664.3	1661.7	1652.8	1644.7	1636.7	1634.3	1635.2	1624.2	1613.7	1609.2
5°	1733.2	1720.7	1708.9	1692.0	1672.0	1650.1	1638.8	1630.1	1608.3	1584.5	1570.8
7.5°	1791.5	1773.6	1750.7	1719.0	1689.9	1655.5	1633.6	1614.2	1582.3	1548.7	1528.3
10°	1826.9	1802.5	1773.2	1734.5	1698.8	1657.0	1627.6	1598.2	1560.7	1520.8	1495.7
12.5°	1857.4	1824.6	1795.7	1746.0	1703.8	1651.5	1616.7	1575.2	1535.8	1488.2	1463.8
15°	1930.1	1869.4	1814.4	1758.2	1706.3	1633.2	1594.5	1538.9	1487.0	1428.3	1400.2
17.5°	1986.2	1918.0	1831.4	1760.0	1699.5	1618.5	1561.6	1495.0	1433.7	1366.6	1328.4
20°	2018.1	1940.0	1846.9	1761.9	1689.5	1597.0	1535.1	1467.0	1395.2	1319.6	1278.4
22.5°	2037.1	1955.0	1863.0	1754.4	1669.5	1579.5	1501.6	1427.0	1354.2	1272.6	1229.4
25°	2043.1	1968.1	1870.7	1748.2	1644.5	1542.6	1448.9	1376.5	1288.3	1212.1	1149.0
27.5°	2013.4	1959.7	1865.9	1736.4	1615.6	1496.6	1392.0	1309.9	1217.0	1134.2	1070.8
30°	1976.9	1945.6	1854.4	1724.4	1592.6	1464.5	1349.6	1256.5	1164.0	1080.3	1015.3
32.5°	1920.4	1913.7	1833.4	1707.5	1568.1	1424.1	1305.1	1211.0	1108.6	1026.3	964.3
35°	1809.5	1839.4	1788.8	1669.5	1522.0	1366.4	1237.7	1130.2	1024.1	945.3	887.2
37.5°	1660.8	1735.2	1722.0	1613.9	1459.8	1303.7	1161.6	1049.3	948.1	868.6	811.6
40°	1558.3	1653.3	1667.0	1571.4	1415.8	1255.2	1104.6	992.8	894.1	821.7	764.1
42.5°	1448.3	1559.3	1597.0	1520.4	1367.8	1204.3	1053.7	937.8	840.1	769.6	718.7
45°	1264.0	1410.8	1479.0	1435.2	1287.8	1120.3	965.3	847.8	759.1	692.9	653.5
47.5°	1091.7	1252.1	1343.7	1328.2	1198.7	1032.8	879.6	766.9	680.5	627.7	592.5
50°	969.7	1134.7	1245.2	1250.3	1134.7	970.3	816.6	710.4	631.0	581.7	552.9
52.5°	863.7	1021.2	1141.7	1168.2	1063.2	905.3	760.1	654.4	584.6	539.2	513.5
55°	725.4	858.5	992.2	1040.9	956.6	806.7	672.3	579.2	513.6	482.3	459.8
57.5°	603.1	714.0	837.5	891.4	839.4	711.0	585.1	504.2	451.0	423.6	406.3
60°	538.6	626.1	736.1	800.4	755.4	641.1	531.1	454.2	410.5	386.1	369.9
62.5°	478.6	556.1	649.1	707.9	683.4	575.6	477.1	409.3	371.5	348.6	336.9
65°	394.8	456.1	528.0	582.3	566.1	484.2	403.7	345.5	315.5	297.4	288.0
67.5°	325.1	369.4	419.2	466.8	453.7	395.7	331.0	285.8	263.4	247.8	242.1
70°	281.2	314.9	359.3	397.4	386.8	339.2	288.0	249.3	229.9	216.8	211.2
72.5°	239.2	266.9	300.8	331.9	324.7	285.3	242.6	213.3	198.4	186.3	181.7
75°	180.6	201.8	222.4	243.0	241.2	210.6	185.6	163.1	151.2	141.9	140.0
77.5°	133.3	145.2	159.2	171.5	168.0	150.6	130.9	118.1	109.3	103.1	102.1
80°	101.8	108.7	118.7	127.4	123.1	115.6	100.0	90.6	84.4	78.1	75.6
82.5°	73.9	80.7	86.7	91.5	88.1	81.1	71.5	65.1	61.4	57.1	56.1
85°	38.7	42.5	45.0	46.2	45.0	40.6	36.2	33.8	30.7	28.8	28.1
87.5°	20.1	18.8	17.9	18.3	16.4	16.0	13.3	11.2	11.3	11.5	10.9
90°	25.6	18.9	14.2	11.3	9.5	7.6	3.8	1.0	3.8	7.6	9.5
92.5°	94.5	64.4	43.0	34.1	27.6	23.5	16.6	11.6	16.6	23.5	27.6
95°	218.7	136.4	92.8	70.1	55.0	46.4	36.9	33.2	36.9	46.4	55.0
97.5°	294.7	179.9	125.2	99.5	82.0	69.1	59.1	54.0	59.1	69.1	82.0
100°	310.6	195.1	144.9	118.4	99.5	84.3	75.7	72.9	75.7	84.3	99.5
102.5°	311.4	208.7	162.3	135.8	116.1	100.9	92.5	90.3	92.5	100.9	116.1
105°	316.3	232.0	187.5	161.0	140.1	126.0	119.4	115.5	119.4	126.0	140.1
107.5°	329.4	255.9	212.7	186.1	165.3	152.3	145.9	142.8	145.9	152.3	165.3
110°	340.0	271.8	230.2	202.7	182.8	170.5	164.8	161.0	164.8	170.5	182.8



TEST NUMBER: P331458-930

CATALOG NUMBER: S122DIP-S1005D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	351.4	287.0	246.8	218.6	199.4	187.9	181.5	177.7	181.5	187.9	199.4
115°	368.4	310.6	269.9	244.3	225.4	214.0	208.4	203.7	208.4	214.0	225.4
117.5°	386.6	332.4	294.7	268.2	250.1	240.0	234.3	230.6	234.3	240.0	250.1
120°	398.8	347.6	310.6	284.1	265.2	256.7	250.9	247.2	250.9	256.7	265.2
122.5°	409.4	362.0	327.3	300.0	281.1	271.8	266.1	263.1	266.1	271.8	281.1
125°	426.2	383.6	349.5	322.9	304.0	292.7	287.0	284.1	287.0	292.7	304.0
127.5°	441.9	403.7	370.5	343.2	325.1	312.6	304.6	300.8	304.6	312.6	325.1
130°	451.8	415.8	382.6	356.1	337.2	323.9	314.5	310.6	314.5	323.9	337.2
132.5°	461.6	426.4	394.8	368.3	348.5	334.5	324.3	319.8	324.3	334.5	348.5
135°	474.5	441.3	411.1	384.5	362.7	348.5	337.2	333.4	337.2	348.5	362.7
137.5°	484.4	453.5	423.5	398.9	377.3	362.2	350.8	346.3	350.8	362.2	377.3
140°	489.7	460.3	431.9	407.2	386.5	371.3	359.9	356.1	359.9	371.3	386.5
142.5°	494.2	465.6	438.0	414.8	394.8	379.6	369.0	366.0	369.0	379.6	394.8
145°	500.1	473.5	448.0	427.1	408.2	394.0	384.5	380.7	384.5	394.0	408.2
147.5°	503.3	480.0	455.9	437.4	421.7	408.5	399.5	396.6	399.5	408.5	421.7
150°	504.8	483.1	461.2	444.2	430.0	417.7	410.1	407.2	410.1	417.7	430.0
152.5°	505.6	486.1	466.5	451.0	437.6	426.7	419.2	417.8	419.2	426.7	437.6
155°	506.7	490.6	474.5	460.3	449.9	439.4	433.7	432.8	433.7	439.4	449.9
157.5°	506.7	493.8	480.2	468.2	459.9	450.9	446.3	445.3	446.3	450.9	459.9
160°	506.7	495.4	484.0	473.5	465.9	458.4	454.6	453.6	454.6	458.4	465.9
162.5°	506.0	496.1	486.2	478.1	471.2	465.2	461.5	462.0	461.5	465.2	471.2
165°	503.9	497.3	488.7	483.1	478.3	472.6	470.8	471.7	470.8	472.6	478.3
167.5°	502.6	497.0	490.8	487.2	483.8	480.2	478.5	479.6	478.5	480.2	483.8
170°	501.0	496.3	491.5	488.7	486.8	484.0	483.1	484.9	483.1	484.0	486.8
172.5°	498.7	495.5	492.3	490.2	489.1	486.2	486.8	488.0	486.8	486.2	489.1
175°	496.3	494.4	492.5	491.5	491.5	489.7	490.6	491.5	490.6	489.7	491.5
177.5°	494.8	493.3	492.5	492.5	492.5	491.0	491.7	493.3	491.7	491.0	492.5
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331458-930

CATALOG NUMBER: S122DIP-S1005D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1604.3	1601.2	1590.7	1585.3	1576.3	1567.7	1562.3	1564.8	1566.8	1565.8	1564.2
5°	1558.3	1546.4	1528.3	1512.6	1501.4	1480.8	1472.0	1467.7	1464.0	1459.5	1455.1
7.5°	1503.5	1484.8	1458.8	1436.6	1415.5	1389.9	1375.3	1366.6	1357.6	1347.7	1339.0
10°	1464.5	1438.3	1410.8	1379.6	1354.6	1331.5	1310.8	1297.1	1284.6	1272.8	1264.0
12.5°	1423.6	1393.3	1359.3	1316.6	1289.1	1256.0	1252.9	1228.7	1209.1	1201.8	1191.5
15°	1358.3	1315.8	1272.8	1222.1	1200.3	1170.3	1151.5	1132.8	1115.9	1104.0	1100.9
17.5°	1284.3	1229.2	1186.3	1150.0	1114.2	1083.5	1066.2	1051.2	1037.3	1021.4	1019.3
20°	1227.8	1180.2	1133.4	1101.6	1064.7	1033.4	1012.2	997.2	985.3	975.9	967.8
22.5°	1174.3	1122.3	1079.4	1044.6	1008.2	982.9	966.2	951.7	941.8	931.5	923.8
25°	1088.4	1047.8	1000.9	961.6	931.6	915.3	901.6	889.1	882.9	876.0	867.2
27.5°	1013.3	968.2	924.3	893.8	867.5	853.1	843.3	834.9	829.0	825.0	820.0
30°	960.3	914.7	880.4	850.4	828.5	814.2	807.9	802.9	796.0	793.5	791.0
32.5°	909.3	868.2	838.9	812.9	792.0	782.6	776.9	772.4	767.0	764.5	759.5
35°	837.2	802.9	774.1	759.8	742.9	734.7	730.4	724.1	719.2	716.6	716.0
37.5°	769.4	739.6	720.6	702.1	695.0	690.1	684.0	679.8	678.3	677.9	677.3
40°	725.4	701.0	684.2	669.2	666.0	658.5	653.5	649.8	649.8	650.4	649.8
42.5°	685.4	663.6	648.7	635.7	632.0	627.5	622.6	622.3	623.3	625.4	623.3
45°	624.8	609.2	598.6	592.3	585.5	581.1	580.4	582.3	582.9	583.6	585.5
47.5°	569.1	558.7	549.1	542.2	539.2	538.4	537.7	541.0	544.0	545.1	548.0
50°	536.1	524.2	516.1	511.7	509.2	507.9	509.2	513.0	515.4	518.6	520.5
52.5°	499.1	490.7	485.1	481.8	480.7	481.5	481.8	486.0	490.0	491.1	492.0
55°	448.0	441.7	440.5	434.9	437.3	436.8	439.9	442.4	446.1	449.9	450.5
57.5°	397.0	392.0	388.7	389.1	389.9	392.6	395.3	399.7	403.7	407.6	408.0
60°	363.1	360.5	358.7	358.7	359.9	363.6	366.7	371.1	373.7	376.1	378.0
62.5°	332.0	329.5	327.7	328.6	331.9	334.1	337.8	340.1	342.7	345.1	346.0
65°	283.1	281.8	283.6	284.9	285.5	288.7	293.0	294.9	297.4	298.6	303.0
67.5°	237.9	238.1	237.9	239.7	243.3	244.0	248.2	252.6	253.1	255.4	258.3
70°	207.4	208.7	209.9	211.2	214.3	215.6	218.7	220.5	223.1	224.9	226.8
72.5°	179.4	179.7	180.9	180.7	183.3	186.1	188.7	190.5	193.1	195.4	197.3
75°	138.1	138.1	139.3	140.0	143.1	146.2	145.6	146.8	149.4	151.8	153.1
77.5°	100.9	99.5	100.9	101.5	102.5	105.1	105.6	107.4	110.2	109.3	110.7
80°	76.9	75.0	76.9	77.5	77.5	80.6	80.6	81.9	83.7	81.9	83.7
82.5°	54.9	54.0	55.4	55.5	56.5	56.6	57.6	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.1	28.1	27.5	27.5	28.8	26.9
87.5°	10.8	10.8	11.3	12.6	13.3	13.0	12.2	12.1	11.7	11.1	11.3
90°	11.3	14.2	18.9	25.6	31.2	32.2	31.2	30.3	28.5	30.3	31.2
92.5°	34.1	43.0	64.4	94.5	121.4	123.1	104.0	82.6	70.8	62.9	57.0
95°	70.1	92.8	136.4	218.7	328.6	371.3	324.9	248.2	190.4	150.6	129.7
97.5°	99.5	125.2	179.9	294.7	477.4	633.8	664.9	579.0	473.8	371.3	302.9
100°	118.4	144.9	195.1	310.6	515.2	748.2	884.6	864.7	747.3	617.5	502.9
102.5°	135.8	162.3	208.7	311.4	500.8	752.0	966.5	1051.9	1025.3	930.4	809.0
105°	161.0	187.5	232.0	316.3	472.6	701.8	953.7	1150.7	1257.8	1270.1	1238.8
107.5°	186.1	212.7	255.9	329.4	458.6	648.0	870.6	1079.5	1240.7	1339.2	1385.0
110°	202.7	230.2	271.8	340.0	455.6	622.2	818.3	1018.1	1187.6	1308.9	1386.6



TEST NUMBER: P331458-930

CATALOG NUMBER: S122DIP-S1005D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	218.6	246.8	287.0	351.4	456.3	605.6	782.0	962.1	1124.8	1254.3	1343.4
115°	244.3	269.9	310.6	368.4	460.3	587.2	736.9	893.2	1039.0	1163.0	1260.6
117.5°	268.2	294.7	332.4	386.6	467.1	578.3	708.4	841.2	969.3	1081.8	1173.3
120°	284.1	310.6	347.6	398.8	471.7	573.0	693.2	815.5	932.9	1033.3	1119.5
122.5°	300.0	327.3	362.0	409.4	477.0	570.0	680.4	795.0	902.6	997.7	1075.5
125°	322.9	349.5	383.6	426.2	484.9	564.5	662.0	765.2	862.8	946.2	1017.2
127.5°	343.2	370.5	403.7	441.9	493.1	561.3	645.0	735.9	824.2	902.8	968.3
130°	356.1	382.6	415.8	451.8	499.1	559.7	633.7	717.0	798.4	873.3	935.7
132.5°	368.3	394.8	426.4	461.6	505.2	559.0	624.5	698.8	774.2	842.9	901.6
135°	384.5	411.1	441.3	474.5	512.4	557.8	611.8	673.4	735.9	798.4	851.4
137.5°	398.9	423.5	453.5	484.4	518.9	557.7	602.9	653.1	705.4	755.0	801.3
140°	407.2	431.9	460.3	489.7	521.9	556.9	597.6	640.3	685.7	729.3	770.9
142.5°	414.8	438.0	465.6	494.2	524.2	556.9	592.3	629.7	668.3	705.8	740.6
145°	427.1	448.0	473.5	500.1	526.6	555.0	585.3	614.7	646.0	675.3	702.8
147.5°	437.4	455.9	480.0	503.3	527.3	551.6	578.1	603.2	627.8	650.7	670.7
150°	444.2	461.2	483.1	504.8	526.6	549.3	572.0	594.8	615.6	635.5	652.6
152.5°	451.0	466.5	486.1	505.6	525.1	545.5	566.7	586.4	605.8	622.6	637.4
155°	460.3	474.5	490.6	506.7	522.8	538.9	556.9	574.9	590.0	604.2	614.7
157.5°	468.2	480.2	493.8	506.7	518.4	532.1	547.6	561.4	574.1	586.0	594.2
160°	473.5	484.0	495.4	506.7	516.2	527.6	540.8	553.1	563.5	574.0	580.6
162.5°	478.1	486.2	496.1	506.0	513.9	523.7	534.8	544.8	553.7	562.6	567.7
165°	483.1	488.7	497.3	503.9	509.6	516.2	524.7	532.3	538.9	545.5	549.3
167.5°	487.2	490.8	497.0	502.6	505.2	509.6	514.9	520.3	525.5	530.0	533.5
170°	488.7	491.5	496.3	501.0	502.9	505.7	509.6	514.3	517.1	520.9	522.8
172.5°	490.2	492.3	495.5	498.7	499.9	501.2	504.3	507.4	509.6	512.6	513.7
175°	491.5	492.5	494.4	496.3	495.4	496.3	497.3	500.1	501.0	502.0	502.9
177.5°	492.5	492.5	493.3	494.8	493.3	492.5	493.3	494.8	494.8	495.5	495.5
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331458-930

CATALOG NUMBER: S122DIP-S1005D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1559.3	1558.3	1558.3	1553.8	1558.3	1558.3	1559.3	1564.2	1565.8	1566.8	1564.8
5°	1446.4	1444.5	1441.4	1444.5	1441.4	1444.5	1446.4	1455.1	1459.5	1464.0	1467.7
7.5°	1334.8	1327.3	1326.2	1318.8	1326.2	1327.3	1334.8	1339.0	1347.7	1357.6	1366.6
10°	1253.4	1248.4	1247.7	1235.8	1247.7	1248.4	1253.4	1264.0	1272.8	1284.6	1297.1
12.5°	1191.4	1179.4	1181.8	1174.8	1181.8	1179.4	1191.4	1191.5	1201.8	1209.1	1228.7
15°	1084.0	1084.0	1081.6	1070.9	1081.6	1084.0	1084.0	1100.9	1104.0	1115.9	1132.8
17.5°	1007.0	1005.7	999.7	1002.7	999.7	1005.7	1007.0	1019.3	1021.4	1037.3	1051.2
20°	960.9	957.2	949.7	949.7	949.7	957.2	960.9	967.8	975.9	985.3	997.2
22.5°	917.5	917.2	909.2	911.7	909.2	917.2	917.5	923.8	931.5	941.8	951.7
25°	866.6	861.6	857.9	859.7	857.9	861.6	866.6	867.2	876.0	882.9	889.1
27.5°	818.4	815.6	815.4	810.2	815.4	815.6	818.4	820.0	825.0	829.0	834.9
30°	790.4	784.2	785.4	782.3	785.4	784.2	790.4	791.0	793.5	796.0	802.9
32.5°	758.4	756.1	754.9	752.3	754.9	756.1	758.4	759.5	764.5	767.0	772.4
35°	714.8	715.4	712.2	713.5	712.2	715.4	714.8	716.0	716.6	719.2	724.1
37.5°	676.7	678.7	677.2	677.5	677.2	678.7	676.7	677.3	677.9	678.3	679.8
40°	651.7	651.7	651.7	653.5	651.7	651.7	651.7	649.8	650.4	649.8	649.8
42.5°	627.7	626.7	625.7	625.6	625.7	626.7	627.7	623.3	625.4	623.3	622.3
45°	586.7	588.6	589.2	586.0	589.2	588.6	586.7	585.5	583.6	582.9	582.3
47.5°	549.6	549.8	549.6	552.4	549.6	549.8	549.6	548.0	545.1	544.0	541.0
50°	523.6	522.4	523.6	522.4	523.6	522.4	523.6	520.5	518.6	515.4	513.0
52.5°	496.1	496.4	495.6	495.4	495.6	496.4	496.1	492.0	491.1	490.0	486.0
55°	453.0	454.2	453.6	453.6	453.6	454.2	453.0	450.5	449.9	446.1	442.4
57.5°	408.4	409.5	410.3	407.6	410.3	409.5	408.4	408.0	407.6	403.7	399.7
60°	377.4	380.5	379.8	378.6	379.8	380.5	377.4	378.0	376.1	373.7	371.1
62.5°	348.9	350.0	349.9	349.7	349.9	350.0	348.9	346.0	345.1	342.7	340.1
65°	304.9	306.1	304.3	306.1	304.3	306.1	304.9	303.0	298.6	297.4	294.9
67.5°	257.6	258.0	259.3	260.2	259.3	258.0	257.6	258.3	255.4	253.1	252.6
70°	228.0	227.5	229.3	231.2	229.3	227.5	228.0	226.8	224.9	223.1	220.5
72.5°	197.1	198.4	197.8	199.2	197.8	198.4	197.1	197.3	195.4	193.1	190.5
75°	151.8	153.7	153.1	155.0	153.1	153.7	151.8	153.1	151.8	149.4	146.8
77.5°	109.7	110.0	109.7	110.7	109.7	110.0	109.7	110.7	109.3	110.2	107.4
80°	83.7	82.5	81.2	83.7	81.2	82.5	83.7	83.7	81.9	83.7	81.9
82.5°	58.2	58.9	57.7	57.7	57.7	58.9	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.8	27.5	27.5
87.5°	11.3	10.8	10.8	10.3	10.8	10.8	11.3	11.3	11.1	11.7	12.1
90°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	30.3	28.5	30.3
92.5°	56.3	53.2	54.0	52.5	54.0	53.2	56.3	57.0	62.9	70.8	82.6
95°	117.4	109.9	107.0	107.9	107.0	109.9	117.4	129.7	150.6	190.4	248.2
97.5°	257.6	234.3	220.5	212.5	220.5	234.3	257.6	302.9	371.3	473.8	579.0
100°	424.3	383.6	356.1	339.1	356.1	383.6	424.3	502.9	617.5	747.3	864.7
102.5°	723.6	654.1	619.8	596.7	619.8	654.1	723.6	809.0	930.4	1025.3	1051.9
105°	1180.1	1121.4	1080.7	1067.4	1080.7	1121.4	1180.1	1238.8	1270.1	1257.8	1150.7
107.5°	1392.4	1389.2	1381.0	1363.4	1381.0	1389.2	1392.4	1385.0	1339.2	1240.7	1079.5
110°	1427.3	1445.3	1453.8	1452.9	1453.8	1445.3	1427.3	1386.6	1308.9	1187.6	1018.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1400.0	1430.1	1446.3	1451.3	1446.3	1430.1	1400.0	1343.4	1254.3	1124.8	962.1
115°	1327.9	1371.4	1396.0	1404.6	1396.0	1371.4	1327.9	1260.6	1163.0	1039.0	893.2
117.5°	1241.9	1287.8	1313.9	1321.0	1313.9	1287.8	1241.9	1173.3	1081.8	969.3	841.2
120°	1185.8	1230.3	1257.8	1267.2	1257.8	1230.3	1185.8	1119.5	1033.3	932.9	815.5
122.5°	1135.0	1178.8	1203.2	1211.1	1203.2	1178.8	1135.0	1075.5	997.7	902.6	795.0
125°	1072.1	1108.2	1131.8	1139.4	1131.8	1108.2	1072.1	1017.2	946.2	862.8	765.2
127.5°	1016.3	1049.9	1070.4	1076.5	1070.4	1049.9	1016.3	968.3	902.8	824.2	735.9
130°	982.2	1014.4	1033.3	1040.9	1033.3	1014.4	982.2	935.7	873.3	798.4	717.0
132.5°	947.3	979.5	996.9	1003.7	996.9	979.5	947.3	901.6	842.9	774.2	698.8
135°	892.2	923.4	940.4	944.3	940.4	923.4	892.2	851.4	798.4	735.9	673.4
137.5°	838.4	865.3	880.3	885.9	880.3	865.3	838.4	801.3	755.0	705.4	653.1
140°	801.3	825.9	840.1	845.8	840.1	825.9	801.3	770.9	729.3	685.7	640.3
142.5°	769.4	791.8	804.5	805.6	804.5	791.8	769.4	740.6	705.8	668.3	629.7
145°	725.5	741.6	751.1	753.9	751.1	741.6	725.5	702.8	675.3	646.0	614.7
147.5°	689.5	702.4	708.8	710.5	708.8	702.4	689.5	670.7	650.7	627.8	603.2
150°	666.8	678.2	683.8	684.8	683.8	678.2	666.8	652.6	635.5	615.6	594.8
152.5°	648.6	658.4	662.6	662.8	662.6	658.4	648.6	637.4	622.6	605.8	586.4
155°	625.1	631.7	635.5	633.7	635.5	631.7	625.1	614.7	604.2	590.0	574.9
157.5°	601.6	607.1	608.8	608.8	608.8	607.1	601.6	594.2	586.0	574.1	561.4
160°	587.2	591.9	592.9	592.9	592.9	591.9	587.2	580.6	574.0	563.5	553.1
162.5°	574.3	577.6	578.5	577.7	578.5	577.6	574.3	567.7	562.6	553.7	544.8
165°	553.1	556.9	556.9	556.0	556.9	556.9	553.1	549.3	545.5	538.9	532.3
167.5°	535.1	537.2	537.0	535.9	537.0	537.2	535.1	533.5	530.0	525.5	520.3
170°	523.7	526.6	525.6	523.7	525.6	526.6	523.7	522.8	520.9	517.1	514.3
172.5°	514.7	516.0	515.0	513.9	515.0	516.0	514.7	513.7	512.6	509.6	507.4
175°	502.9	503.9	502.9	501.0	502.9	503.9	502.9	502.9	502.0	501.0	500.1
177.5°	495.5	495.5	494.8	493.3	494.8	495.5	495.5	495.5	495.5	494.8	494.8
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1562.3	1567.7	1576.3	1585.3	1590.7	1601.2	1604.3	1609.2	1613.7	1624.2	1635.2
5°	1472.0	1480.8	1501.4	1512.6	1528.3	1546.4	1558.3	1570.8	1584.5	1608.3	1630.1
7.5°	1375.3	1389.9	1415.5	1436.6	1458.8	1484.8	1503.5	1528.3	1548.7	1582.3	1614.2
10°	1310.8	1331.5	1354.6	1379.6	1410.8	1438.3	1464.5	1495.7	1520.8	1560.7	1598.2
12.5°	1252.9	1256.0	1289.1	1316.6	1359.3	1393.3	1423.6	1463.8	1488.2	1535.8	1575.2
15°	1151.5	1170.3	1200.3	1222.1	1272.8	1315.8	1358.3	1400.2	1428.3	1487.0	1538.9
17.5°	1066.2	1083.5	1114.2	1150.0	1186.3	1229.2	1284.3	1328.4	1366.6	1433.7	1495.0
20°	1012.2	1033.4	1064.7	1101.6	1133.4	1180.2	1227.8	1278.4	1319.6	1395.2	1467.0
22.5°	966.2	982.9	1008.2	1044.6	1079.4	1122.3	1174.3	1229.4	1272.6	1354.2	1427.0
25°	901.6	915.3	931.6	961.6	1000.9	1047.8	1088.4	1149.0	1212.1	1288.3	1376.5
27.5°	843.3	853.1	867.5	893.8	924.3	968.2	1013.3	1070.8	1134.2	1217.0	1309.9
30°	807.9	814.2	828.5	850.4	880.4	914.7	960.3	1015.3	1080.3	1164.0	1256.5
32.5°	776.9	782.6	792.0	812.9	838.9	868.2	909.3	964.3	1026.3	1108.6	1211.0
35°	730.4	734.7	742.9	759.8	774.1	802.9	837.2	887.2	945.3	1024.1	1130.2
37.5°	684.0	690.1	695.0	702.1	720.6	739.6	769.4	811.6	868.6	948.1	1049.3
40°	653.5	658.5	666.0	669.2	684.2	701.0	725.4	764.1	821.7	894.1	992.8
42.5°	622.6	627.5	632.0	635.7	648.7	663.6	685.4	718.7	769.6	840.1	937.8
45°	580.4	581.1	585.5	592.3	598.6	609.2	624.8	653.5	692.9	759.1	847.8
47.5°	537.7	538.4	539.2	542.2	549.1	558.7	569.1	592.5	627.7	680.5	766.9
50°	509.2	507.9	509.2	511.7	516.1	524.2	536.1	552.9	581.7	631.0	710.4
52.5°	481.8	481.5	480.7	481.8	485.1	490.7	499.1	513.5	539.2	584.6	654.4
55°	439.9	436.8	437.3	434.9	440.5	441.7	448.0	459.8	482.3	513.6	579.2
57.5°	395.3	392.6	389.9	389.1	388.7	392.0	397.0	406.3	423.6	451.0	504.2
60°	366.7	363.6	359.9	358.7	358.7	360.5	363.1	369.9	386.1	410.5	454.2
62.5°	337.8	334.1	331.9	328.6	327.7	329.5	332.0	336.9	348.6	371.5	409.3
65°	293.0	288.7	285.5	284.9	283.6	281.8	283.1	288.0	297.4	315.5	345.5
67.5°	248.2	244.0	243.3	239.7	237.9	238.1	237.9	242.1	247.8	263.4	285.8
70°	218.7	215.6	214.3	211.2	209.9	208.7	207.4	211.2	216.8	229.9	249.3
72.5°	188.7	186.1	183.3	180.7	180.9	179.7	179.4	181.7	186.3	198.4	213.3
75°	145.6	146.2	143.1	140.0	139.3	138.1	138.1	140.0	141.9	151.2	163.1
77.5°	105.6	105.1	102.5	101.5	100.9	99.5	100.9	102.1	103.1	109.3	118.1
80°	80.6	80.6	77.5	77.5	76.9	75.0	76.9	75.6	78.1	84.4	90.6
82.5°	57.6	56.6	56.5	55.5	55.4	54.0	54.9	56.1	57.1	61.4	65.1
85°	28.1	28.1	27.5	26.9	27.5	26.9	27.5	28.1	28.8	30.7	33.8
87.5°	12.2	13.0	13.3	12.6	11.3	10.8	10.8	10.9	11.5	11.3	11.2
90°	31.2	32.2	31.2	25.6	18.9	14.2	11.3	9.5	7.6	3.8	1.0
92.5°	104.0	123.1	121.4	94.5	64.4	43.0	34.1	27.6	23.5	16.6	11.6
95°	324.9	371.3	328.6	218.7	136.4	92.8	70.1	55.0	46.4	36.9	33.2
97.5°	664.9	633.8	477.4	294.7	179.9	125.2	99.5	82.0	69.1	59.1	54.0
100°	884.6	748.2	515.2	310.6	195.1	144.9	118.4	99.5	84.3	75.7	72.9
102.5°	966.5	752.0	500.8	311.4	208.7	162.3	135.8	116.1	100.9	92.5	90.3
105°	953.7	701.8	472.6	316.3	232.0	187.5	161.0	140.1	126.0	119.4	115.5
107.5°	870.6	648.0	458.6	329.4	255.9	212.7	186.1	165.3	152.3	145.9	142.8
110°	818.3	622.2	455.6	340.0	271.8	230.2	202.7	182.8	170.5	164.8	161.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	782.0	605.6	456.3	351.4	287.0	246.8	218.6	199.4	187.9	181.5	177.7
115°	736.9	587.2	460.3	368.4	310.6	269.9	244.3	225.4	214.0	208.4	203.7
117.5°	708.4	578.3	467.1	386.6	332.4	294.7	268.2	250.1	240.0	234.3	230.6
120°	693.2	573.0	471.7	398.8	347.6	310.6	284.1	265.2	256.7	250.9	247.2
122.5°	680.4	570.0	477.0	409.4	362.0	327.3	300.0	281.1	271.8	266.1	263.1
125°	662.0	564.5	484.9	426.2	383.6	349.5	322.9	304.0	292.7	287.0	284.1
127.5°	645.0	561.3	493.1	441.9	403.7	370.5	343.2	325.1	312.6	304.6	300.8
130°	633.7	559.7	499.1	451.8	415.8	382.6	356.1	337.2	323.9	314.5	310.6
132.5°	624.5	559.0	505.2	461.6	426.4	394.8	368.3	348.5	334.5	324.3	319.8
135°	611.8	557.8	512.4	474.5	441.3	411.1	384.5	362.7	348.5	337.2	333.4
137.5°	602.9	557.7	518.9	484.4	453.5	423.5	398.9	377.3	362.2	350.8	346.3
140°	597.6	556.9	521.9	489.7	460.3	431.9	407.2	386.5	371.3	359.9	356.1
142.5°	592.3	556.9	524.2	494.2	465.6	438.0	414.8	394.8	379.6	369.0	366.0
145°	585.3	555.0	526.6	500.1	473.5	448.0	427.1	408.2	394.0	384.5	380.7
147.5°	578.1	551.6	527.3	503.3	480.0	455.9	437.4	421.7	408.5	399.5	396.6
150°	572.0	549.3	526.6	504.8	483.1	461.2	444.2	430.0	417.7	410.1	407.2
152.5°	566.7	545.5	525.1	505.6	486.1	466.5	451.0	437.6	426.7	419.2	417.8
155°	556.9	538.9	522.8	506.7	490.6	474.5	460.3	449.9	439.4	433.7	432.8
157.5°	547.6	532.1	518.4	506.7	493.8	480.2	468.2	459.9	450.9	446.3	445.3
160°	540.8	527.6	516.2	506.7	495.4	484.0	473.5	465.9	458.4	454.6	453.6
162.5°	534.8	523.7	513.9	506.0	496.1	486.2	478.1	471.2	465.2	461.5	462.0
165°	524.7	516.2	509.6	503.9	497.3	488.7	483.1	478.3	472.6	470.8	471.7
167.5°	514.9	509.6	505.2	502.6	497.0	490.8	487.2	483.8	480.2	478.5	479.6
170°	509.6	505.7	502.9	501.0	496.3	491.5	488.7	486.8	484.0	483.1	484.9
172.5°	504.3	501.2	499.9	498.7	495.5	492.3	490.2	489.1	486.2	486.8	488.0
175°	497.3	496.3	495.4	496.3	494.4	492.5	491.5	491.5	489.7	490.6	491.5
177.5°	493.3	492.5	493.3	494.8	493.3	492.5	492.5	492.5	491.0	491.7	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1634.3	1636.7	1644.7	1652.8	1661.7	1664.3	1668.3	1664.8	1663.7	1673.2	1680.3
5°	1638.8	1650.1	1672.0	1692.0	1708.9	1720.7	1733.2	1738.2	1747.6	1760.7	1776.9
7.5°	1633.6	1655.5	1689.9	1719.0	1750.7	1773.6	1791.5	1806.7	1825.2	1850.1	1877.1
10°	1627.6	1657.0	1698.8	1734.5	1773.2	1802.5	1826.9	1850.6	1878.2	1912.5	1948.2
12.5°	1616.7	1651.5	1703.8	1746.0	1795.7	1824.6	1857.4	1908.7	1938.1	1986.0	2036.1
15°	1594.5	1633.2	1706.3	1758.2	1814.4	1869.4	1930.1	1978.7	2027.5	2055.6	2126.2
17.5°	1561.6	1618.5	1699.5	1760.0	1831.4	1918.0	1986.2	2041.3	2097.6	2143.2	2178.6
20°	1535.1	1597.0	1689.5	1761.9	1846.9	1940.0	2018.1	2074.4	2123.1	2161.2	2183.0
22.5°	1501.6	1579.5	1669.5	1754.4	1863.0	1955.0	2037.1	2081.4	2122.1	2140.7	2149.0
25°	1448.9	1542.6	1644.5	1748.2	1870.7	1968.1	2043.1	2070.0	2081.9	2063.8	2033.8
27.5°	1392.0	1496.6	1615.6	1736.4	1865.9	1959.7	2013.4	2009.1	1989.0	1930.4	1883.5
30°	1349.6	1464.5	1592.6	1724.4	1854.4	1945.6	1976.9	1945.6	1900.1	1834.4	1767.6
32.5°	1305.1	1424.1	1568.1	1707.5	1833.4	1913.7	1920.4	1866.7	1796.1	1721.5	1638.1
35°	1237.7	1366.4	1522.0	1669.5	1788.8	1839.4	1809.5	1714.5	1630.8	1528.9	1415.2
37.5°	1161.6	1303.7	1459.8	1613.9	1722.0	1735.2	1660.8	1560.7	1442.7	1323.0	1189.1
40°	1104.6	1255.2	1415.8	1571.4	1667.0	1653.3	1558.3	1448.3	1307.7	1161.5	1037.1
42.5°	1053.7	1204.3	1367.8	1520.4	1597.0	1559.3	1448.3	1313.4	1162.3	1024.6	910.7
45°	965.3	1120.3	1287.8	1435.2	1479.0	1410.8	1264.0	1114.0	965.3	850.4	760.4
47.5°	879.6	1032.8	1198.7	1328.2	1343.7	1252.1	1091.7	937.3	809.5	715.9	652.4
50°	816.6	970.3	1134.7	1250.3	1245.2	1134.7	969.7	822.9	716.0	640.4	597.9
52.5°	760.1	905.3	1063.2	1168.2	1141.7	1021.2	863.7	733.4	645.6	586.4	548.0
55°	672.3	806.7	956.6	1040.9	992.2	858.5	725.4	620.4	555.5	511.1	481.1
57.5°	585.1	711.0	839.4	891.4	837.5	714.0	603.1	526.9	478.1	445.2	425.7
60°	531.1	641.1	755.4	800.4	736.1	626.1	538.6	470.5	431.1	404.2	386.8
62.5°	477.1	575.6	683.4	707.9	649.1	556.1	478.6	422.0	389.6	365.7	349.3
65°	403.7	484.2	566.1	582.3	528.0	456.1	394.8	358.0	329.3	311.8	298.6
67.5°	331.0	395.7	453.7	466.8	419.2	369.4	325.1	293.0	273.5	259.0	247.9
70°	288.0	339.2	386.8	397.4	359.3	314.9	281.2	255.5	238.1	225.6	214.9
72.5°	242.6	285.3	324.7	331.9	300.8	266.9	239.2	219.1	203.6	195.6	185.5
75°	185.6	210.6	241.2	243.0	222.4	201.8	180.6	167.5	159.3	149.4	144.3
77.5°	130.9	150.6	168.0	171.5	159.2	145.2	133.3	122.9	116.1	111.5	106.8
80°	100.0	115.6	123.1	127.4	118.7	108.7	101.8	95.0	90.6	87.5	84.4
82.5°	71.5	81.1	88.1	91.5	86.7	80.7	73.9	70.0	66.6	64.0	62.9
85°	36.2	40.6	45.0	46.2	45.0	42.5	38.7	38.7	36.9	36.2	36.2
87.5°	13.3	16.0	16.4	18.3	17.9	18.8	20.1	20.7	20.5	19.7	19.1
90°	3.8	7.6	9.5	11.3	14.2	18.9	25.6	31.2	32.2	31.2	30.3
92.5°	16.6	23.5	27.6	34.1	43.0	64.4	94.5	121.4	123.1	104.0	82.6
95°	36.9	46.4	55.0	70.1	92.8	136.4	218.7	328.6	371.3	324.9	248.2
97.5°	59.1	69.1	82.0	99.5	125.2	179.9	294.7	477.4	633.8	664.9	579.0
100°	75.7	84.3	99.5	118.4	144.9	195.1	310.6	515.2	748.2	884.6	864.7
102.5°	92.5	100.9	116.1	135.8	162.3	208.7	311.4	500.8	752.0	966.5	1051.9
105°	119.4	126.0	140.1	161.0	187.5	232.0	316.3	472.6	701.8	953.7	1150.7
107.5°	145.9	152.3	165.3	186.1	212.7	255.9	329.4	458.6	648.0	870.6	1079.5
110°	164.8	170.5	182.8	202.7	230.2	271.8	340.0	455.6	622.2	818.3	1018.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	181.5	187.9	199.4	218.6	246.8	287.0	351.4	456.3	605.6	782.0	962.1
115°	208.4	214.0	225.4	244.3	269.9	310.6	368.4	460.3	587.2	736.9	893.2
117.5°	234.3	240.0	250.1	268.2	294.7	332.4	386.6	467.1	578.3	708.4	841.2
120°	250.9	256.7	265.2	284.1	310.6	347.6	398.8	471.7	573.0	693.2	815.5
122.5°	266.1	271.8	281.1	300.0	327.3	362.0	409.4	477.0	570.0	680.4	795.0
125°	287.0	292.7	304.0	322.9	349.5	383.6	426.2	484.9	564.5	662.0	765.2
127.5°	304.6	312.6	325.1	343.2	370.5	403.7	441.9	493.1	561.3	645.0	735.9
130°	314.5	323.9	337.2	356.1	382.6	415.8	451.8	499.1	559.7	633.7	717.0
132.5°	324.3	334.5	348.5	368.3	394.8	426.4	461.6	505.2	559.0	624.5	698.8
135°	337.2	348.5	362.7	384.5	411.1	441.3	474.5	512.4	557.8	611.8	673.4
137.5°	350.8	362.2	377.3	398.9	423.5	453.5	484.4	518.9	557.7	602.9	653.1
140°	359.9	371.3	386.5	407.2	431.9	460.3	489.7	521.9	556.9	597.6	640.3
142.5°	369.0	379.6	394.8	414.8	438.0	465.6	494.2	524.2	556.9	592.3	629.7
145°	384.5	394.0	408.2	427.1	448.0	473.5	500.1	526.6	555.0	585.3	614.7
147.5°	399.5	408.5	421.7	437.4	455.9	480.0	503.3	527.3	551.6	578.1	603.2
150°	410.1	417.7	430.0	444.2	461.2	483.1	504.8	526.6	549.3	572.0	594.8
152.5°	419.2	426.7	437.6	451.0	466.5	486.1	505.6	525.1	545.5	566.7	586.4
155°	433.7	439.4	449.9	460.3	474.5	490.6	506.7	522.8	538.9	556.9	574.9
157.5°	446.3	450.9	459.9	468.2	480.2	493.8	506.7	518.4	532.1	547.6	561.4
160°	454.6	458.4	465.9	473.5	484.0	495.4	506.7	516.2	527.6	540.8	553.1
162.5°	461.5	465.2	471.2	478.1	486.2	496.1	506.0	513.9	523.7	534.8	544.8
165°	470.8	472.6	478.3	483.1	488.7	497.3	503.9	509.6	516.2	524.7	532.3
167.5°	478.5	480.2	483.8	487.2	490.8	497.0	502.6	505.2	509.6	514.9	520.3
170°	483.1	484.0	486.8	488.7	491.5	496.3	501.0	502.9	505.7	509.6	514.3
172.5°	486.8	486.2	489.1	490.2	492.3	495.5	498.7	499.9	501.2	504.3	507.4
175°	490.6	489.7	491.5	491.5	492.5	494.4	496.3	495.4	496.3	497.3	500.1
177.5°	491.7	491.0	492.5	492.5	492.5	493.3	494.8	493.3	492.5	493.3	494.8
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1686.2	1693.2	1693.2	1694.2	1702.2	1701.2	1700.7
5°	1794.5	1805.1	1806.3	1817.5	1825.0	1822.5	1815.7
7.5°	1896.5	1916.3	1931.3	1939.7	1949.5	1955.7	1952.9
10°	1977.5	2006.3	2023.7	2035.6	2050.0	2060.6	2056.8
12.5°	2051.0	2085.2	2109.3	2129.6	2131.4	2145.1	2135.8
15°	2165.6	2201.8	2205.5	2220.5	2232.5	2231.1	2231.8
17.5°	2203.4	2215.1	2217.5	2217.8	2217.9	2213.5	2204.1
20°	2190.0	2185.6	2175.0	2166.8	2152.5	2150.6	2138.1
22.5°	2126.0	2112.1	2085.5	2067.8	2045.5	2039.6	2036.1
25°	2000.0	1969.4	1926.9	1886.3	1875.0	1853.2	1859.5
27.5°	1827.2	1779.5	1733.5	1700.5	1670.6	1637.9	1647.2
30°	1705.7	1652.0	1587.0	1537.0	1505.1	1473.9	1468.3
32.5°	1560.7	1482.1	1409.6	1365.5	1316.7	1297.0	1275.4
35°	1310.8	1234.0	1162.1	1100.2	1064.7	1037.1	1012.2
37.5°	1086.1	997.6	939.6	889.5	863.7	848.0	852.0
40°	946.6	869.1	826.6	788.5	764.8	753.5	756.0
42.5°	833.6	775.6	740.6	714.5	697.8	691.5	690.1
45°	705.4	672.9	644.2	629.2	621.1	614.2	609.8
47.5°	617.9	591.4	575.2	566.3	559.2	552.2	552.0
50°	565.4	548.0	536.7	527.3	521.7	516.7	521.1
52.5°	525.5	509.5	498.2	489.8	487.7	483.2	483.1
55°	466.1	453.6	445.5	438.0	434.2	431.7	428.6
57.5°	412.1	400.2	392.7	388.0	380.9	378.4	377.4
60°	373.7	364.3	356.8	350.5	347.4	342.4	342.4
62.5°	338.1	328.8	321.8	317.0	311.9	309.9	310.4
65°	286.8	279.3	272.4	267.4	266.2	262.4	263.7
67.5°	239.5	234.6	227.3	224.5	222.2	220.2	218.7
70°	208.1	203.1	199.3	195.6	193.7	193.7	193.7
72.5°	181.6	175.5	173.3	168.6	169.7	167.7	165.7
75°	140.6	136.8	134.9	133.1	130.0	130.0	130.0
77.5°	103.5	102.3	100.1	98.1	97.3	96.7	96.9
80°	80.0	79.3	78.1	78.1	76.9	76.2	75.0
82.5°	61.5	59.8	59.1	58.6	58.4	58.2	58.0
85°	35.0	33.8	33.8	34.3	33.1	33.1	33.8
87.5°	19.2	19.6	19.2	19.2	19.7	19.2	19.2
90°	28.5	30.3	31.2	31.2	31.2	31.2	31.2
92.5°	70.8	62.9	57.0	56.3	53.2	54.0	52.5
95°	190.4	150.6	129.7	117.4	109.9	107.0	107.9
97.5°	473.8	371.3	302.9	257.6	234.3	220.5	212.5
100°	747.3	617.5	502.9	424.3	383.6	356.1	339.1
102.5°	1025.3	930.4	809.0	723.6	654.1	619.8	596.7
105°	1257.8	1270.1	1238.8	1180.1	1121.4	1080.7	1067.4
107.5°	1240.7	1339.2	1385.0	1392.4	1389.2	1381.0	1363.4
110°	1187.6	1308.9	1386.6	1427.3	1445.3	1453.8	1452.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1124.8	1254.3	1343.4	1400.0	1430.1	1446.3	1451.3
115°	1039.0	1163.0	1260.6	1327.9	1371.4	1396.0	1404.6
117.5°	969.3	1081.8	1173.3	1241.9	1287.8	1313.9	1321.0
120°	932.9	1033.3	1119.5	1185.8	1230.3	1257.8	1267.2
122.5°	902.6	997.7	1075.5	1135.0	1178.8	1203.2	1211.1
125°	862.8	946.2	1017.2	1072.1	1108.2	1131.8	1139.4
127.5°	824.2	902.8	968.3	1016.3	1049.9	1070.4	1076.5
130°	798.4	873.3	935.7	982.2	1014.4	1033.3	1040.9
132.5°	774.2	842.9	901.6	947.3	979.5	996.9	1003.7
135°	735.9	798.4	851.4	892.2	923.4	940.4	944.3
137.5°	705.4	755.0	801.3	838.4	865.3	880.3	885.9
140°	685.7	729.3	770.9	801.3	825.9	840.1	845.8
142.5°	668.3	705.8	740.6	769.4	791.8	804.5	805.6
145°	646.0	675.3	702.8	725.5	741.6	751.1	753.9
147.5°	627.8	650.7	670.7	689.5	702.4	708.8	710.5
150°	615.6	635.5	652.6	666.8	678.2	683.8	684.8
152.5°	605.8	622.6	637.4	648.6	658.4	662.6	662.8
155°	590.0	604.2	614.7	625.1	631.7	635.5	633.7
157.5°	574.1	586.0	594.2	601.6	607.1	608.8	608.8
160°	563.5	574.0	580.6	587.2	591.9	592.9	592.9
162.5°	553.7	562.6	567.7	574.3	577.6	578.5	577.7
165°	538.9	545.5	549.3	553.1	556.9	556.9	556.0
167.5°	525.5	530.0	533.5	535.1	537.2	537.0	535.9
170°	517.1	520.9	522.8	523.7	526.6	525.6	523.7
172.5°	509.6	512.6	513.7	514.7	516.0	515.0	513.9
175°	501.0	502.0	502.9	502.9	503.9	502.9	501.0
177.5°	494.8	495.5	495.5	495.5	495.5	494.8	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5

(END OF REPORT)