

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: P331568

Luminaire Tested: **S122DIW-S865D970U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331568
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D970U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7170.0 lumens
Efficiency: N/A
Efficacy: 117.2 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

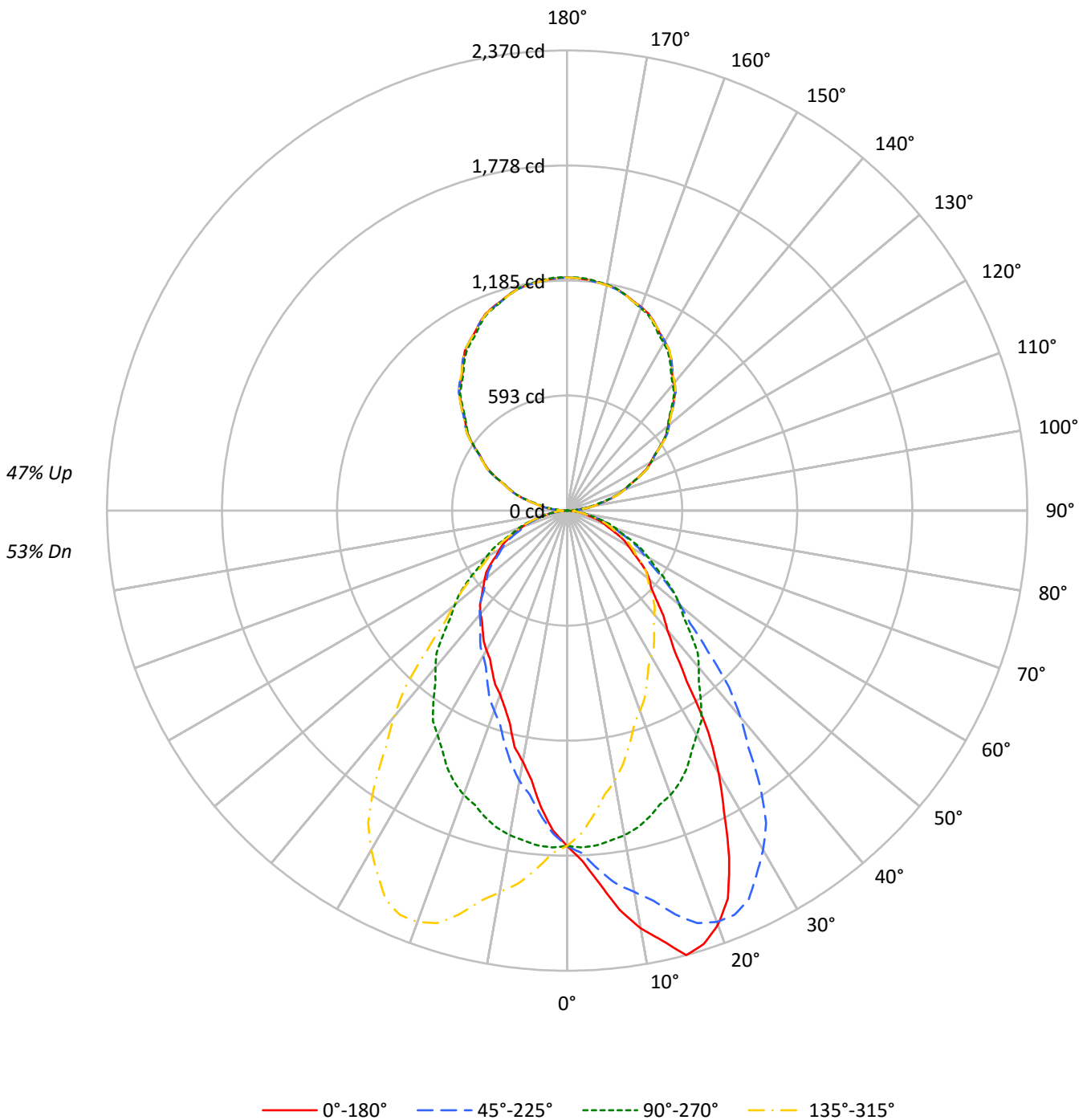
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	77	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27876	27876	27876	27876
5°	31253	28058	24864	28058
10°	35813	27829	21518	27829
15°	39619	27318	19010	27318
20°	39015	26770	17330	26770
25°	35179	26042	16265	26042
30°	29071	24878	15489	24878
35°	21187	23660	14937	23660
40°	16923	22223	14629	22223
45°	14787	20559	14212	20559
50°	13901	18952	13933	18952
55°	12814	17315	13560	17315
60°	11741	15578	12984	15578
65°	10697	14017	12420	14017
70°	9711	12500	11589	12500
75°	8609	10805	10268	10805
80°	7401	8945	8266	8945
85°	6632	6632	4909	6632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	2.3
10°-20°	478.0	6.7
20°-30°	693.8	9.7
30°-40°	732.1	10.2
40°-50°	648.2	9.0
50°-60°	517.3	7.2
60°-70°	351.6	4.9
70°-80°	180.3	2.5
80°-90°	48.2	0.7
90°-100°	76.0	1.1
100°-110°	236.2	3.3
110°-120°	403.8	5.6
120°-130°	531.0	7.4
130°-140°	595.9	8.3
140°-150°	584.3	8.1
150°-160°	490.1	6.8
160°-170°	325.1	4.5
170°-180°	113.6	1.6
0°-30°	1336.2	18.6
0°-40°	2068.3	28.8
0°-60°	3233.8	45.1
0°-90°	3813.9	53.2
90°-120°	716.0	10.0
90°-150°	2427.3	33.9
90°-180°	3356.0	46.8
0°-180°	7170.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1726	1726	1726	1726	1726	
5°	1928	1731	1534	1731	1928	193
15°	2370	1634	1137	1634	2370	654
25°	1975	1462	913	1462	1975	893
35°	1075	1200	758	1200	1075	699
45°	648	900	622	900	648	509
55°	455	615	482	615	455	408
65°	280	367	325	367	280	278
75°	138	173	165	173	138	147
85°	36	36	26	36	36	40
90°	34	1	34	1	34	17
95°	63	53	63	53	63	70
105°	225	218	225	218	225	237
115°	405	405	405	405	405	400
125°	592	590	592	590	592	527
135°	772	763	772	763	772	594
145°	936	926	936	926	936	584
155°	1066	1058	1066	1058	1066	491
165°	1153	1152	1153	1152	1153	325
175°	1194	1198	1194	1198	1194	113
180°	1200	1200	1200	1200	1200	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1806.2	1806.7	1807.8	1799.3	1798.2	1798.2	1790.8	1784.4	1777.0	1766.9	1768.0
5°	1928.3	1935.6	1938.2	1930.3	1918.3	1917.0	1905.7	1887.1	1869.9	1855.9	1846.0
7.5°	2074.0	2076.9	2070.4	2059.9	2051.0	2035.1	2014.1	1993.6	1964.8	1938.4	1918.7
10°	2184.4	2188.4	2177.1	2161.8	2149.2	2130.6	2100.1	2068.9	2031.1	1994.6	1965.4
12.5°	2268.3	2278.1	2263.6	2261.6	2240.0	2214.5	2178.2	2162.4	2109.2	2058.3	2027.0
15°	2370.2	2369.5	2370.9	2358.2	2342.3	2338.3	2299.9	2258.1	2183.1	2153.2	2101.5
17.5°	2340.7	2350.8	2355.5	2355.3	2354.9	2352.4	2340.1	2313.7	2276.1	2227.7	2167.9
20°	2270.7	2283.9	2285.9	2301.2	2309.8	2321.1	2325.7	2318.4	2295.2	2254.7	2203.0
22.5°	2162.4	2166.1	2172.3	2196.1	2214.8	2243.1	2257.8	2282.3	2273.4	2253.7	2210.4
25°	1974.7	1968.1	1991.3	2003.2	2046.4	2091.5	2124.0	2159.8	2191.7	2210.9	2198.3
27.5°	1749.4	1739.4	1774.2	1805.9	1840.9	1889.8	1940.5	2000.3	2050.1	2112.3	2133.7
30°	1559.3	1565.3	1598.5	1632.3	1685.4	1754.4	1811.5	1877.2	1948.2	2017.8	2066.3
32.5°	1354.4	1377.4	1398.4	1450.2	1497.0	1573.9	1657.5	1739.7	1828.2	1907.4	1982.4
35°	1074.9	1101.5	1130.7	1168.5	1234.2	1310.5	1392.1	1502.9	1623.7	1731.9	1820.8
37.5°	904.8	900.6	917.3	944.6	997.8	1059.4	1153.4	1262.9	1405.0	1532.1	1657.5
40°	802.9	800.2	812.2	837.4	877.9	923.0	1005.3	1101.5	1233.5	1388.8	1538.1
42.5°	732.8	734.4	741.0	758.8	786.6	823.7	885.3	967.2	1088.1	1234.3	1394.8
45°	647.6	652.3	659.6	668.2	684.1	714.6	749.1	807.5	903.1	1025.2	1183.1
47.5°	586.3	586.4	593.9	601.4	610.9	628.1	656.2	692.9	760.3	859.7	995.5
50°	553.4	548.8	554.1	560.0	570.0	581.9	600.5	635.0	680.1	760.4	873.9
52.5°	513.1	513.2	518.0	520.2	529.1	541.1	558.0	581.9	622.8	685.6	778.9
55°	455.2	458.5	461.2	465.1	473.1	481.7	495.0	510.9	542.8	589.9	658.9
57.5°	400.8	401.8	404.5	412.1	417.1	425.1	437.7	452.1	472.8	507.7	559.6
60°	363.6	363.6	368.9	372.2	378.9	386.8	396.8	410.7	429.3	457.8	499.7
62.5°	329.7	329.1	331.2	336.7	341.7	349.2	359.1	370.9	388.4	413.8	448.2
65°	280.0	278.7	282.7	284.0	289.3	296.6	304.6	317.2	331.1	349.7	380.2
67.5°	232.2	233.8	236.0	238.5	241.4	249.1	254.4	263.3	275.1	290.5	311.2
70°	205.7	205.7	205.7	207.7	211.7	215.7	221.0	228.3	239.5	252.8	271.4
72.5°	176.0	178.1	180.2	179.0	184.1	186.5	192.8	196.9	207.7	216.2	232.6
75°	138.0	138.0	138.0	141.3	143.3	145.3	149.3	153.3	158.6	169.2	177.8
77.5°	103.0	102.7	103.4	104.2	106.3	108.7	109.9	113.5	118.4	123.3	130.6
80°	79.6	81.0	81.6	82.9	82.9	84.3	84.9	89.6	92.9	96.2	100.9
82.5°	61.6	61.8	62.0	62.2	62.8	63.6	65.3	66.8	67.9	70.7	74.3
85°	35.8	35.2	35.2	36.5	35.8	35.8	37.2	38.5	38.5	39.1	41.1
87.5°	20.7	20.6	21.1	20.6	20.5	21.1	21.2	20.7	21.3	22.0	21.5
90°	34.4	34.2	34.0	33.8	33.5	33.6	34.1	34.5	35.0	35.4	30.5
92.5°	32.8	32.8	32.7	32.7	32.6	32.6	32.5	32.4	32.3	32.2	31.0
95°	62.8	63.2	63.7	64.1	64.6	64.8	64.8	64.8	64.8	64.8	64.4
97.5°	108.8	108.8	108.9	108.9	109.0	109.0	109.0	109.0	109.0	109.0	108.1
100°	138.8	139.0	139.2	139.4	139.7	139.8	139.8	139.8	139.8	139.8	139.1
102.5°	172.8	173.0	173.2	173.5	173.7	173.7	173.5	173.4	173.2	173.0	172.1
105°	224.9	224.9	224.9	224.9	224.9	224.6	224.2	223.7	223.3	222.8	222.4
107.5°	273.9	274.9	275.9	277.0	278.0	278.4	278.3	278.1	277.9	277.7	277.7
110°	312.0	312.6	313.3	314.0	314.7	315.0	315.0	315.0	315.0	315.0	315.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	348.4	348.9	349.4	349.9	350.4	350.9	351.5	352.0	352.5	353.1	353.3
115°	405.1	405.8	406.5	407.2	407.8	408.3	408.5	408.7	409.0	409.2	409.6
117.5°	459.2	459.9	460.6	461.3	461.9	462.5	463.1	463.6	464.2	464.7	466.0
120°	497.3	498.0	498.7	499.3	500.0	500.4	500.4	500.4	500.4	500.4	502.2
122.5°	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.2	538.7	539.2	540.5
125°	591.5	591.7	592.0	592.2	592.4	592.9	593.5	594.2	594.9	595.6	596.2
127.5°	643.4	644.1	644.8	645.5	646.2	647.0	647.8	648.6	649.4	650.3	651.1
130°	680.6	681.5	682.4	683.3	684.2	684.9	685.4	685.8	686.3	686.7	687.2
132.5°	716.3	717.0	717.7	718.5	719.2	720.0	721.0	722.0	723.0	724.0	723.9
135°	771.8	772.5	773.1	773.8	774.5	774.9	775.2	775.4	775.6	775.8	775.4
137.5°	822.0	822.9	823.8	824.7	825.6	826.2	826.4	826.5	826.7	826.9	826.3
140°	856.9	857.8	858.7	859.6	860.5	860.9	860.9	860.9	860.9	860.9	859.8
142.5°	888.5	889.4	890.3	891.2	892.1	892.4	892.3	892.1	891.9	891.7	891.0
145°	935.9	936.8	937.7	938.6	939.5	939.8	939.6	939.4	939.1	938.9	937.6
147.5°	978.2	979.1	979.9	980.8	981.6	981.8	981.3	980.8	980.3	979.8	978.9
150°	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5	1007.8	1007.1	1006.4	1005.8	1004.9
152.5°	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1	1034.3	1033.4	1032.5	1031.7	1030.6
155°	1066.5	1067.2	1067.9	1068.6	1069.2	1069.0	1067.9	1066.8	1065.6	1064.5	1063.8
157.5°	1096.5	1097.6	1098.7	1099.8	1100.8	1100.6	1099.1	1097.6	1096.0	1094.5	1094.1
160°	1115.2	1116.1	1117.0	1117.9	1118.8	1118.5	1117.2	1115.8	1114.5	1113.1	1112.9
162.5°	1131.4	1132.4	1133.5	1134.6	1135.7	1135.5	1133.9	1132.4	1130.9	1129.3	1129.1
165°	1152.6	1153.8	1154.9	1156.0	1157.1	1156.9	1155.3	1153.8	1152.2	1150.6	1150.6
167.5°	1170.1	1171.2	1172.4	1173.6	1174.7	1174.5	1173.0	1171.4	1169.8	1168.2	1168.3
170°	1179.0	1180.3	1181.7	1183.0	1184.4	1184.3	1182.7	1181.1	1179.5	1178.0	1178.2
172.5°	1186.3	1187.6	1189.0	1190.3	1191.7	1191.5	1190.0	1188.4	1186.8	1185.2	1185.5
175°	1194.2	1195.5	1196.9	1198.2	1199.6	1199.4	1197.9	1196.3	1194.7	1193.1	1193.6
177.5°	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1	1201.0	1200.0	1198.9	1197.8	1198.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1771.7	1767.4	1764.8	1755.2	1746.7	1738.2	1735.6	1736.6	1725.0	1713.8	1709.0
5°	1840.7	1827.4	1814.8	1796.9	1775.7	1752.4	1740.5	1731.2	1708.0	1682.8	1668.2
7.5°	1902.5	1883.5	1859.3	1825.6	1794.6	1758.1	1734.9	1714.3	1680.4	1644.8	1623.0
10°	1940.2	1914.3	1883.1	1842.0	1804.2	1759.7	1728.5	1697.4	1657.5	1615.1	1588.5
12.5°	1972.6	1937.7	1907.0	1854.2	1809.5	1753.9	1716.9	1672.9	1631.0	1580.6	1554.6
15°	2049.7	1985.3	1926.9	1867.2	1812.1	1734.5	1693.4	1634.3	1579.2	1516.9	1487.0
17.5°	2109.3	2037.0	1945.0	1869.1	1804.8	1718.9	1658.5	1587.7	1522.6	1451.3	1410.7
20°	2143.3	2060.3	1961.4	1871.2	1794.2	1696.0	1630.3	1558.0	1481.7	1401.4	1357.6
22.5°	2163.4	2076.2	1978.4	1863.2	1773.0	1677.4	1594.8	1515.5	1438.2	1351.5	1305.6
25°	2169.8	2090.2	1986.7	1856.6	1746.5	1638.3	1538.8	1461.8	1368.2	1287.3	1220.3
27.5°	2138.2	2081.1	1981.6	1844.1	1715.8	1589.3	1478.4	1391.2	1292.5	1204.6	1137.2
30°	2099.5	2066.3	1969.4	1831.4	1691.4	1555.4	1433.3	1334.4	1236.2	1147.3	1078.3
32.5°	2039.5	2032.3	1947.1	1813.3	1665.4	1512.4	1386.0	1286.1	1177.3	1089.9	1024.1
35°	1921.6	1953.5	1899.7	1773.0	1616.4	1451.2	1314.5	1200.4	1087.6	1003.9	942.2
37.5°	1763.7	1842.8	1828.7	1713.9	1550.3	1384.6	1233.7	1114.4	1006.9	922.5	861.9
40°	1654.9	1755.7	1770.3	1668.8	1503.6	1333.1	1173.2	1054.4	949.5	872.6	811.5
42.5°	1538.1	1655.9	1696.0	1614.7	1452.6	1278.9	1119.0	996.0	892.2	817.4	763.2
45°	1342.4	1498.3	1570.6	1524.2	1367.6	1189.7	1025.2	900.4	806.2	735.9	694.1
47.5°	1159.3	1329.7	1427.0	1410.6	1272.9	1096.8	934.1	814.4	722.7	666.6	629.2
50°	1029.8	1205.0	1322.4	1327.8	1205.0	1030.5	867.3	754.5	670.2	617.8	587.2
52.5°	917.3	1084.5	1212.6	1240.7	1129.1	961.5	807.3	695.0	620.8	572.6	545.3
55°	770.4	911.7	1053.7	1105.5	1015.9	856.6	714.0	615.1	545.4	512.3	488.4
57.5°	640.5	758.3	889.4	946.6	891.4	755.1	621.3	535.5	478.9	449.9	431.6
60°	572.0	664.9	781.7	850.0	802.2	680.8	564.0	482.4	436.0	410.1	392.8
62.5°	508.3	590.6	689.3	751.8	725.8	611.3	506.7	434.6	394.5	370.3	357.8
65°	419.4	484.4	560.7	618.4	601.2	514.2	428.7	366.9	335.1	315.8	305.9
67.5°	345.3	392.3	445.2	495.8	481.9	420.3	351.5	303.5	279.8	263.2	257.2
70°	298.6	334.4	381.5	422.0	410.7	360.3	305.9	264.8	244.2	230.3	224.3
72.5°	254.0	283.5	319.4	352.5	344.9	303.0	257.6	226.5	210.7	197.9	193.0
75°	191.8	214.3	236.2	258.1	256.1	223.6	197.1	173.2	160.6	150.6	148.6
77.5°	141.6	154.2	169.1	182.1	178.5	159.9	139.1	125.4	116.1	109.5	108.4
80°	108.2	115.5	126.1	135.4	130.7	122.8	106.2	96.2	89.6	82.9	80.3
82.5°	78.4	85.7	92.1	97.1	93.6	86.1	75.9	69.1	65.2	60.6	59.6
85°	41.1	45.1	47.8	49.1	47.8	43.1	38.5	35.8	32.5	30.5	29.9
87.5°	21.0	20.0	19.1	19.4	17.2	16.7	14.0	11.9	11.9	11.9	11.4
90°	25.5	20.6	15.6	11.8	9.1	6.4	3.7	1.0	3.7	6.4	9.1
92.5°	29.9	28.7	27.5	26.0	24.0	22.0	20.0	18.0	20.0	22.0	24.0
95°	63.9	63.5	63.0	61.7	59.4	57.2	54.9	52.7	54.9	57.2	59.4
97.5°	107.3	106.4	105.6	104.1	102.2	100.2	98.2	96.2	98.2	100.2	102.2
100°	138.4	137.7	137.1	135.8	134.0	132.2	130.4	128.6	130.4	132.2	134.0
102.5°	171.3	170.4	169.6	168.4	167.0	165.5	164.1	162.7	164.1	165.5	167.0
105°	221.9	221.5	221.0	220.5	219.8	219.1	218.4	217.8	218.4	219.1	219.8
107.5°	277.7	277.7	277.7	277.2	276.2	275.2	274.3	273.3	274.3	275.2	276.2
110°	315.0	315.0	315.0	314.3	313.0	311.6	310.3	308.9	310.3	311.6	313.0



TEST NUMBER: P331568

CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	353.4	353.6	353.8	353.2	351.9	350.5	349.2	347.8	349.2	350.5	351.9
115°	410.1	410.5	411.0	410.5	409.2	407.8	406.5	405.1	406.5	407.8	409.2
117.5°	467.2	468.5	469.7	469.5	467.7	465.9	464.1	462.3	464.1	465.9	467.7
120°	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4	502.2	504.0	505.8
122.5°	541.8	543.0	544.3	543.8	541.7	539.5	537.4	535.2	537.4	539.5	541.7
125°	596.9	597.6	598.3	597.6	595.6	593.5	591.5	589.5	591.5	593.5	595.6
127.5°	651.9	652.7	653.5	652.6	650.1	647.5	644.9	642.4	644.9	647.5	650.1
130°	687.6	688.1	688.5	687.3	684.4	681.4	678.5	675.6	678.5	681.4	684.4
132.5°	723.8	723.7	723.6	722.4	720.0	717.6	715.2	712.8	715.2	717.6	720.0
135°	774.9	774.5	774.0	772.6	770.1	767.6	765.2	762.7	765.2	767.6	770.1
137.5°	825.7	825.1	824.6	823.2	821.2	819.2	817.2	815.1	817.2	819.2	821.2
140°	858.7	857.6	856.4	854.8	852.8	850.8	848.8	846.7	848.8	850.8	852.8
142.5°	890.2	889.4	888.7	887.3	885.2	883.2	881.2	879.2	881.2	883.2	885.2
145°	936.2	934.9	933.5	932.1	930.5	928.9	927.3	925.7	927.3	928.9	930.5
147.5°	978.0	977.1	976.2	974.8	972.9	971.1	969.2	967.3	969.2	971.1	972.9
150°	1004.0	1003.1	1002.2	1001.0	999.7	998.3	997.0	995.6	997.0	998.3	999.7
152.5°	1029.5	1028.5	1027.4	1026.2	1024.8	1023.5	1022.1	1020.8	1022.1	1023.5	1024.8
155°	1063.2	1062.5	1061.8	1061.1	1060.5	1059.8	1059.1	1058.4	1059.1	1059.8	1060.5
157.5°	1093.7	1093.3	1092.9	1092.4	1092.0	1091.5	1091.1	1090.6	1091.1	1091.5	1092.0
160°	1112.7	1112.5	1112.2	1111.9	1111.4	1111.0	1110.5	1110.1	1110.5	1111.0	1111.4
162.5°	1128.9	1128.7	1128.4	1128.3	1128.2	1128.1	1128.0	1127.9	1128.0	1128.1	1128.2
165°	1150.6	1150.6	1150.6	1150.7	1150.9	1151.2	1151.4	1151.6	1151.4	1151.2	1150.9
167.5°	1168.3	1168.4	1168.4	1168.8	1169.4	1170.1	1170.8	1171.5	1170.8	1170.1	1169.4
170°	1178.4	1178.6	1178.9	1179.3	1180.0	1180.7	1181.3	1182.0	1181.3	1180.7	1180.0
172.5°	1185.7	1185.9	1186.1	1186.6	1187.3	1187.9	1188.6	1189.3	1188.6	1187.9	1187.3
175°	1194.0	1194.5	1194.9	1195.5	1196.2	1196.9	1197.5	1198.2	1197.5	1196.9	1196.2
177.5°	1198.5	1198.9	1199.2	1199.7	1200.2	1200.8	1201.3	1201.9	1201.3	1200.8	1200.2
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1703.7	1700.5	1689.4	1683.6	1674.0	1665.0	1659.1	1661.8	1663.9	1662.8	1661.3
5°	1654.9	1642.3	1623.0	1606.4	1594.5	1572.6	1563.3	1558.7	1554.7	1550.0	1545.4
7.5°	1596.8	1576.9	1549.2	1525.6	1503.3	1476.1	1460.6	1451.3	1441.8	1431.3	1422.0
10°	1555.4	1527.5	1498.3	1465.1	1438.6	1414.0	1392.1	1377.5	1364.3	1351.6	1342.4
12.5°	1511.8	1479.7	1443.6	1398.2	1369.0	1333.9	1330.5	1304.8	1284.1	1276.3	1265.4
15°	1442.6	1397.4	1351.6	1297.9	1274.7	1242.8	1222.9	1203.0	1185.1	1172.5	1169.2
17.5°	1363.9	1305.5	1259.9	1221.3	1183.2	1150.6	1132.3	1116.4	1101.6	1084.8	1082.5
20°	1303.9	1253.4	1203.7	1169.8	1130.7	1097.5	1074.9	1059.0	1046.4	1036.5	1027.8
22.5°	1247.1	1191.9	1146.3	1109.3	1070.7	1043.9	1026.1	1010.7	1000.2	989.2	981.1
25°	1155.9	1112.8	1063.0	1021.2	989.3	972.1	957.5	944.2	937.6	930.3	921.0
27.5°	1076.1	1028.2	981.7	949.3	921.3	906.0	895.7	886.6	880.4	876.1	870.8
30°	1019.9	971.4	934.9	903.1	879.9	864.6	858.0	852.7	845.4	842.7	840.1
32.5°	965.7	922.1	890.9	863.3	841.1	831.2	825.1	820.3	814.6	811.9	806.6
35°	889.2	852.7	822.1	806.9	789.0	780.3	775.7	769.1	763.7	761.1	760.4
37.5°	817.1	785.4	765.3	745.7	738.1	732.8	726.5	721.9	720.3	719.9	719.3
40°	770.4	744.5	726.6	710.7	707.3	699.4	694.1	690.1	690.1	690.8	690.1
42.5°	727.9	704.7	688.9	675.1	671.2	666.5	661.2	660.9	662.0	664.2	662.0
45°	663.5	647.0	635.7	629.0	621.7	617.1	616.4	618.4	619.1	619.8	621.7
47.5°	604.4	593.3	583.1	575.8	572.6	571.8	571.0	574.5	577.7	578.9	581.9
50°	569.3	556.7	548.1	543.4	540.8	539.5	540.8	544.8	547.4	550.7	552.7
52.5°	530.0	521.1	515.2	511.6	510.5	511.3	511.6	516.1	520.4	521.5	522.5
55°	475.8	469.1	467.8	461.8	464.5	463.8	467.1	469.8	473.8	477.8	478.4
57.5°	421.6	416.3	412.7	413.3	414.1	417.0	419.8	424.4	428.7	432.9	433.3
60°	385.5	382.9	380.9	380.9	382.2	386.2	389.5	394.1	396.8	399.5	401.4
62.5°	352.6	350.0	348.0	349.0	352.5	354.9	358.7	361.2	363.9	366.5	367.5
65°	300.6	299.3	301.3	302.6	303.2	306.6	311.2	313.2	315.8	317.2	321.8
67.5°	252.7	252.9	252.7	254.5	258.4	259.2	263.6	268.2	268.7	271.3	274.3
70°	220.3	221.6	223.0	224.3	227.6	228.9	232.2	234.2	236.9	238.9	240.9
72.5°	190.6	190.8	192.2	191.9	194.7	197.6	200.4	202.4	205.0	207.6	209.5
75°	146.6	146.6	148.0	148.6	152.0	155.3	154.6	155.9	158.6	161.2	162.6
77.5°	107.1	105.6	107.1	107.8	108.8	111.6	112.1	114.0	117.0	116.1	117.6
80°	81.6	79.6	81.6	82.3	82.3	85.6	85.6	86.9	88.9	86.9	88.9
82.5°	58.3	57.3	58.8	58.9	60.0	60.1	61.2	61.4	63.4	62.5	63.4
85°	29.2	28.5	29.2	28.5	29.2	29.9	29.9	29.2	29.2	30.5	28.5
87.5°	11.4	11.6	12.1	13.1	13.5	14.0	13.4	13.3	13.2	12.0	12.0
90°	11.8	15.6	20.6	25.5	30.5	35.4	35.0	34.5	34.1	33.6	33.5
92.5°	26.0	27.5	28.7	29.9	31.0	32.2	32.3	32.4	32.5	32.6	32.6
95°	61.7	63.0	63.5	63.9	64.4	64.8	64.8	64.8	64.8	64.8	64.6
97.5°	104.1	105.6	106.4	107.3	108.1	109.0	109.0	109.0	109.0	109.0	109.0
100°	135.8	137.1	137.7	138.4	139.1	139.8	139.8	139.8	139.8	139.8	139.7
102.5°	168.4	169.6	170.4	171.3	172.1	173.0	173.2	173.4	173.5	173.7	173.7
105°	220.5	221.0	221.5	221.9	222.4	222.8	223.3	223.7	224.2	224.6	224.9
107.5°	277.2	277.7	277.7	277.7	277.7	277.7	277.9	278.1	278.3	278.4	278.0
110°	314.3	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	314.7



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CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	353.2	353.8	353.6	353.4	353.3	353.1	352.5	352.0	351.5	350.9	350.4
115°	410.5	411.0	410.5	410.1	409.6	409.2	409.0	408.7	408.5	408.3	407.8
117.5°	469.5	469.7	468.5	467.2	466.0	464.7	464.2	463.6	463.1	462.5	461.9
120°	507.6	507.6	505.8	504.0	502.2	500.4	500.4	500.4	500.4	500.4	500.0
122.5°	543.8	544.3	543.0	541.8	540.5	539.2	538.7	538.2	537.6	537.1	536.6
125°	597.6	598.3	597.6	596.9	596.2	595.6	594.9	594.2	593.5	592.9	592.4
127.5°	652.6	653.5	652.7	651.9	651.1	650.3	649.4	648.6	647.8	647.0	646.2
130°	687.3	688.5	688.1	687.6	687.2	686.7	686.3	685.8	685.4	684.9	684.2
132.5°	722.4	723.6	723.7	723.8	723.9	724.0	723.0	722.0	721.0	720.0	719.2
135°	772.6	774.0	774.5	774.9	775.4	775.8	775.6	775.4	775.2	774.9	774.5
137.5°	823.2	824.6	825.1	825.7	826.3	826.9	826.7	826.5	826.4	826.2	825.6
140°	854.8	856.4	857.6	858.7	859.8	860.9	860.9	860.9	860.9	860.9	860.5
142.5°	887.3	888.7	889.4	890.2	891.0	891.7	891.9	892.1	892.3	892.4	892.1
145°	932.1	933.5	934.9	936.2	937.6	938.9	939.1	939.4	939.6	939.8	939.5
147.5°	974.8	976.2	977.1	978.0	978.9	979.8	980.3	980.8	981.3	981.8	981.6
150°	1001.0	1002.2	1003.1	1004.0	1004.9	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5
152.5°	1026.2	1027.4	1028.5	1029.5	1030.6	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1
155°	1061.1	1061.8	1062.5	1063.2	1063.8	1064.5	1065.6	1066.8	1067.9	1069.0	1069.2
157.5°	1092.4	1092.9	1093.3	1093.7	1094.1	1094.5	1096.0	1097.6	1099.1	1100.6	1100.8
160°	1111.9	1112.2	1112.5	1112.7	1112.9	1113.1	1114.5	1115.8	1117.2	1118.5	1118.8
162.5°	1128.3	1128.4	1128.7	1128.9	1129.1	1129.3	1130.9	1132.4	1133.9	1135.5	1135.7
165°	1150.7	1150.6	1150.6	1150.6	1150.6	1150.6	1152.2	1153.8	1155.3	1156.9	1157.1
167.5°	1168.8	1168.4	1168.4	1168.3	1168.3	1168.2	1169.8	1171.4	1173.0	1174.5	1174.7
170°	1179.3	1178.9	1178.6	1178.4	1178.2	1178.0	1179.5	1181.1	1182.7	1184.3	1184.4
172.5°	1186.6	1186.1	1185.9	1185.7	1185.5	1185.2	1186.8	1188.4	1190.0	1191.5	1191.7
175°	1195.5	1194.9	1194.5	1194.0	1193.6	1193.1	1194.7	1196.3	1197.9	1199.4	1199.6
177.5°	1199.7	1199.2	1198.9	1198.5	1198.2	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



TEST NUMBER: P331568

CATALOG NUMBER: S122DIW-S865D970U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1655.9	1654.9	1654.9	1650.1	1654.9	1654.9	1655.9	1661.3	1662.8	1663.9	1661.8
5°	1536.1	1534.1	1530.8	1534.1	1530.8	1534.1	1536.1	1545.4	1550.0	1554.7	1558.7
7.5°	1417.6	1409.6	1408.4	1400.6	1408.4	1409.6	1417.6	1422.0	1431.3	1441.8	1451.3
10°	1331.1	1325.8	1325.1	1312.5	1325.1	1325.8	1331.1	1342.4	1351.6	1364.3	1377.5
12.5°	1265.3	1252.5	1255.0	1247.7	1255.0	1252.5	1265.3	1265.4	1276.3	1284.1	1304.8
15°	1151.3	1151.3	1148.6	1137.3	1148.6	1151.3	1151.3	1169.2	1172.5	1185.1	1203.0
17.5°	1069.4	1068.0	1061.7	1064.9	1061.7	1068.0	1069.4	1082.5	1084.8	1101.6	1116.4
20°	1020.5	1016.6	1008.6	1008.6	1008.6	1016.6	1020.5	1027.8	1036.5	1046.4	1059.0
22.5°	974.4	974.1	965.6	968.2	965.6	974.1	974.4	981.1	989.2	1000.2	1010.7
25°	920.3	915.0	911.1	913.0	911.1	915.0	920.3	921.0	930.3	937.6	944.2
27.5°	869.1	866.2	865.9	860.5	865.9	866.2	869.1	870.8	876.1	880.4	886.6
30°	839.4	832.8	834.1	830.8	834.1	832.8	839.4	840.1	842.7	845.4	852.7
32.5°	805.4	803.0	801.7	798.9	801.7	803.0	805.4	806.6	811.9	814.6	820.3
35°	759.1	759.8	756.4	757.8	756.4	759.8	759.1	760.4	761.1	763.7	769.1
37.5°	718.6	720.7	719.2	719.6	719.2	720.7	718.6	719.3	719.9	720.3	721.9
40°	692.1	692.1	692.1	694.1	692.1	692.1	692.1	690.1	690.8	690.1	690.1
42.5°	666.6	665.5	664.5	664.3	664.5	665.5	666.6	662.0	664.2	662.0	660.9
45°	623.1	625.1	625.7	622.4	625.7	625.1	623.1	621.7	619.8	619.1	618.4
47.5°	583.7	583.9	583.7	586.6	583.7	583.9	583.7	581.9	578.9	577.7	574.5
50°	556.1	554.7	556.1	554.7	556.1	554.7	556.1	552.7	550.7	547.4	544.8
52.5°	526.9	527.1	526.3	526.1	526.3	527.1	526.9	522.5	521.5	520.4	516.1
55°	481.1	482.4	481.7	481.7	481.7	482.4	481.1	478.4	477.8	473.8	469.8
57.5°	433.7	434.9	435.8	432.9	435.8	434.9	433.7	433.3	432.9	428.7	424.4
60°	400.8	404.1	403.4	402.1	403.4	404.1	400.8	401.4	399.5	396.8	394.1
62.5°	370.5	371.7	371.6	371.3	371.6	371.7	370.5	367.5	366.5	363.9	361.2
65°	323.8	325.1	323.1	325.1	323.1	325.1	323.8	321.8	317.2	315.8	313.2
67.5°	273.5	273.9	275.4	276.3	275.4	273.9	273.5	274.3	271.3	268.7	268.2
70°	242.2	241.5	243.5	245.5	243.5	241.5	242.2	240.9	238.9	236.9	234.2
72.5°	209.3	210.7	210.1	211.5	210.1	210.7	209.3	209.5	207.6	205.0	202.4
75°	161.2	163.2	162.6	164.6	162.6	163.2	161.2	162.6	161.2	158.6	155.9
77.5°	116.5	116.8	116.5	117.6	116.5	116.8	116.5	117.6	116.1	117.0	114.0
80°	88.9	87.6	86.3	88.9	86.3	87.6	88.9	88.9	86.9	88.9	86.9
82.5°	61.8	62.6	61.3	61.3	61.3	62.6	61.8	63.4	62.5	63.4	61.4
85°	28.5	27.9	26.5	26.5	26.5	27.9	28.5	28.5	30.5	29.2	29.2
87.5°	12.1	11.6	11.6	11.1	11.6	11.6	12.1	12.0	12.0	13.2	13.3
90°	33.8	34.0	34.2	34.4	34.2	34.0	33.8	33.5	33.6	34.1	34.5
92.5°	32.7	32.7	32.8	32.8	32.8	32.7	32.7	32.6	32.6	32.5	32.4
95°	64.1	63.7	63.2	62.8	63.2	63.7	64.1	64.6	64.8	64.8	64.8
97.5°	108.9	108.9	108.8	108.8	108.8	108.9	108.9	109.0	109.0	109.0	109.0
100°	139.4	139.2	139.0	138.8	139.0	139.2	139.4	139.7	139.8	139.8	139.8
102.5°	173.5	173.2	173.0	172.8	173.0	173.2	173.5	173.7	173.7	173.5	173.4
105°	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.9	224.6	224.2	223.7
107.5°	277.0	275.9	274.9	273.9	274.9	275.9	277.0	278.0	278.4	278.3	278.1
110°	314.0	313.3	312.6	312.0	312.6	313.3	314.0	314.7	315.0	315.0	315.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.9	349.4	348.9	348.4	348.9	349.4	349.9	350.4	350.9	351.5	352.0
115°	407.2	406.5	405.8	405.1	405.8	406.5	407.2	407.8	408.3	408.5	408.7
117.5°	461.3	460.6	459.9	459.2	459.9	460.6	461.3	461.9	462.5	463.1	463.6
120°	499.3	498.7	498.0	497.3	498.0	498.7	499.3	500.0	500.4	500.4	500.4
122.5°	536.1	535.6	535.1	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.2
125°	592.2	592.0	591.7	591.5	591.7	592.0	592.2	592.4	592.9	593.5	594.2
127.5°	645.5	644.8	644.1	643.4	644.1	644.8	645.5	646.2	647.0	647.8	648.6
130°	683.3	682.4	681.5	680.6	681.5	682.4	683.3	684.2	684.9	685.4	685.8
132.5°	718.5	717.7	717.0	716.3	717.0	717.7	718.5	719.2	720.0	721.0	722.0
135°	773.8	773.1	772.5	771.8	772.5	773.1	773.8	774.5	774.9	775.2	775.4
137.5°	824.7	823.8	822.9	822.0	822.9	823.8	824.7	825.6	826.2	826.4	826.5
140°	859.6	858.7	857.8	856.9	857.8	858.7	859.6	860.5	860.9	860.9	860.9
142.5°	891.2	890.3	889.4	888.5	889.4	890.3	891.2	892.1	892.4	892.3	892.1
145°	938.6	937.7	936.8	935.9	936.8	937.7	938.6	939.5	939.8	939.6	939.4
147.5°	980.8	979.9	979.1	978.2	979.1	979.9	980.8	981.6	981.8	981.3	980.8
150°	1007.8	1007.1	1006.4	1005.8	1006.4	1007.1	1007.8	1008.5	1008.5	1007.8	1007.1
152.5°	1034.3	1033.4	1032.5	1031.7	1032.5	1033.4	1034.3	1035.1	1035.1	1034.3	1033.4
155°	1068.6	1067.9	1067.2	1066.5	1067.2	1067.9	1068.6	1069.2	1069.0	1067.9	1066.8
157.5°	1099.8	1098.7	1097.6	1096.5	1097.6	1098.7	1099.8	1100.8	1100.6	1099.1	1097.6
160°	1117.9	1117.0	1116.1	1115.2	1116.1	1117.0	1117.9	1118.8	1118.5	1117.2	1115.8
162.5°	1134.6	1133.5	1132.4	1131.4	1132.4	1133.5	1134.6	1135.7	1135.5	1133.9	1132.4
165°	1156.0	1154.9	1153.8	1152.6	1153.8	1154.9	1156.0	1157.1	1156.9	1155.3	1153.8
167.5°	1173.6	1172.4	1171.2	1170.1	1171.2	1172.4	1173.6	1174.7	1174.5	1173.0	1171.4
170°	1183.0	1181.7	1180.3	1179.0	1180.3	1181.7	1183.0	1184.4	1184.3	1182.7	1181.1
172.5°	1190.3	1189.0	1187.6	1186.3	1187.6	1189.0	1190.3	1191.7	1191.5	1190.0	1188.4
175°	1198.2	1196.9	1195.5	1194.2	1195.5	1196.9	1198.2	1199.6	1199.4	1197.9	1196.3
177.5°	1201.0	1200.0	1198.9	1197.8	1198.9	1200.0	1201.0	1202.1	1202.1	1201.0	1200.0
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1659.1	1665.0	1674.0	1683.6	1689.4	1700.5	1703.7	1709.0	1713.8	1725.0	1736.6
5°	1563.3	1572.6	1594.5	1606.4	1623.0	1642.3	1654.9	1668.2	1682.8	1708.0	1731.2
7.5°	1460.6	1476.1	1503.3	1525.6	1549.2	1576.9	1596.8	1623.0	1644.8	1680.4	1714.3
10°	1392.1	1414.0	1438.6	1465.1	1498.3	1527.5	1555.4	1588.5	1615.1	1657.5	1697.4
12.5°	1330.5	1333.9	1369.0	1398.2	1443.6	1479.7	1511.8	1554.6	1580.6	1631.0	1672.9
15°	1222.9	1242.8	1274.7	1297.9	1351.6	1397.4	1442.6	1487.0	1516.9	1579.2	1634.3
17.5°	1132.3	1150.6	1183.2	1221.3	1259.9	1305.5	1363.9	1410.7	1451.3	1522.6	1587.7
20°	1074.9	1097.5	1130.7	1169.8	1203.7	1253.4	1303.9	1357.6	1401.4	1481.7	1558.0
22.5°	1026.1	1043.9	1070.7	1109.3	1146.3	1191.9	1247.1	1305.6	1351.5	1438.2	1515.5
25°	957.5	972.1	989.3	1021.2	1063.0	1112.8	1155.9	1220.3	1287.3	1368.2	1461.8
27.5°	895.7	906.0	921.3	949.3	981.7	1028.2	1076.1	1137.2	1204.6	1292.5	1391.2
30°	858.0	864.6	879.9	903.1	934.9	971.4	1019.9	1078.3	1147.3	1236.2	1334.4
32.5°	825.1	831.2	841.1	863.3	890.9	922.1	965.7	1024.1	1089.9	1177.3	1286.1
35°	775.7	780.3	789.0	806.9	822.1	852.7	889.2	942.2	1003.9	1087.6	1200.4
37.5°	726.5	732.8	738.1	745.7	765.3	785.4	817.1	861.9	922.5	1006.9	1114.4
40°	694.1	699.4	707.3	710.7	726.6	744.5	770.4	811.5	872.6	949.5	1054.4
42.5°	661.2	666.5	671.2	675.1	688.9	704.7	727.9	763.2	817.4	892.2	996.0
45°	616.4	617.1	621.7	629.0	635.7	647.0	663.5	694.1	735.9	806.2	900.4
47.5°	571.0	571.8	572.6	575.8	583.1	593.3	604.4	629.2	666.6	722.7	814.4
50°	540.8	539.5	540.8	543.4	548.1	556.7	569.3	587.2	617.8	670.2	754.5
52.5°	511.6	511.3	510.5	511.6	515.2	521.1	530.0	545.3	572.6	620.8	695.0
55°	467.1	463.8	464.5	461.8	467.8	469.1	475.8	488.4	512.3	545.4	615.1
57.5°	419.8	417.0	414.1	413.3	412.7	416.3	421.6	431.6	449.9	478.9	535.5
60°	389.5	386.2	382.2	380.9	380.9	382.9	385.5	392.8	410.1	436.0	482.4
62.5°	358.7	354.9	352.5	349.0	348.0	350.0	352.6	357.8	370.3	394.5	434.6
65°	311.2	306.6	303.2	302.6	301.3	299.3	300.6	305.9	315.8	335.1	366.9
67.5°	263.6	259.2	258.4	254.5	252.7	252.9	252.7	257.2	263.2	279.8	303.5
70°	232.2	228.9	227.6	224.3	223.0	221.6	220.3	224.3	230.3	244.2	264.8
72.5°	200.4	197.6	194.7	191.9	192.2	190.8	190.6	193.0	197.9	210.7	226.5
75°	154.6	155.3	152.0	148.6	148.0	146.6	146.6	148.6	150.6	160.6	173.2
77.5°	112.1	111.6	108.8	107.8	107.1	105.6	107.1	108.4	109.5	116.1	125.4
80°	85.6	85.6	82.3	82.3	81.6	79.6	81.6	80.3	82.9	89.6	96.2
82.5°	61.2	60.1	60.0	58.9	58.8	57.3	58.3	59.6	60.6	65.2	69.1
85°	29.9	29.9	29.2	28.5	29.2	28.5	29.2	29.9	30.5	32.5	35.8
87.5°	13.4	14.0	13.5	13.1	12.1	11.6	11.4	11.4	11.9	11.9	11.9
90°	35.0	35.4	30.5	25.5	20.6	15.6	11.8	9.1	6.4	3.7	1.0
92.5°	32.3	32.2	31.0	29.9	28.7	27.5	26.0	24.0	22.0	20.0	18.0
95°	64.8	64.8	64.4	63.9	63.5	63.0	61.7	59.4	57.2	54.9	52.7
97.5°	109.0	109.0	108.1	107.3	106.4	105.6	104.1	102.2	100.2	98.2	96.2
100°	139.8	139.8	139.1	138.4	137.7	137.1	135.8	134.0	132.2	130.4	128.6
102.5°	173.2	173.0	172.1	171.3	170.4	169.6	168.4	167.0	165.5	164.1	162.7
105°	223.3	222.8	222.4	221.9	221.5	221.0	220.5	219.8	219.1	218.4	217.8
107.5°	277.9	277.7	277.7	277.7	277.7	277.7	277.2	276.2	275.2	274.3	273.3
110°	315.0	315.0	315.0	315.0	315.0	315.0	314.3	313.0	311.6	310.3	308.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	352.5	353.1	353.3	353.4	353.6	353.8	353.2	351.9	350.5	349.2	347.8
115°	409.0	409.2	409.6	410.1	410.5	411.0	410.5	409.2	407.8	406.5	405.1
117.5°	464.2	464.7	466.0	467.2	468.5	469.7	469.5	467.7	465.9	464.1	462.3
120°	500.4	500.4	502.2	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4
122.5°	538.7	539.2	540.5	541.8	543.0	544.3	543.8	541.7	539.5	537.4	535.2
125°	594.9	595.6	596.2	596.9	597.6	598.3	597.6	595.6	593.5	591.5	589.5
127.5°	649.4	650.3	651.1	651.9	652.7	653.5	652.6	650.1	647.5	644.9	642.4
130°	686.3	686.7	687.2	687.6	688.1	688.5	687.3	684.4	681.4	678.5	675.6
132.5°	723.0	724.0	723.9	723.8	723.7	723.6	722.4	720.0	717.6	715.2	712.8
135°	775.6	775.8	775.4	774.9	774.5	774.0	772.6	770.1	767.6	765.2	762.7
137.5°	826.7	826.9	826.3	825.7	825.1	824.6	823.2	821.2	819.2	817.2	815.1
140°	860.9	860.9	859.8	858.7	857.6	856.4	854.8	852.8	850.8	848.8	846.7
142.5°	891.9	891.7	891.0	890.2	889.4	888.7	887.3	885.2	883.2	881.2	879.2
145°	939.1	938.9	937.6	936.2	934.9	933.5	932.1	930.5	928.9	927.3	925.7
147.5°	980.3	979.8	978.9	978.0	977.1	976.2	974.8	972.9	971.1	969.2	967.3
150°	1006.4	1005.8	1004.9	1004.0	1003.1	1002.2	1001.0	999.7	998.3	997.0	995.6
152.5°	1032.5	1031.7	1030.6	1029.5	1028.5	1027.4	1026.2	1024.8	1023.5	1022.1	1020.8
155°	1065.6	1064.5	1063.8	1063.2	1062.5	1061.8	1061.1	1060.5	1059.8	1059.1	1058.4
157.5°	1096.0	1094.5	1094.1	1093.7	1093.3	1092.9	1092.4	1092.0	1091.5	1091.1	1090.6
160°	1114.5	1113.1	1112.9	1112.7	1112.5	1112.2	1111.9	1111.4	1111.0	1110.5	1110.1
162.5°	1130.9	1129.3	1129.1	1128.9	1128.7	1128.4	1128.3	1128.2	1128.1	1128.0	1127.9
165°	1152.2	1150.6	1150.6	1150.6	1150.6	1150.6	1150.7	1150.9	1151.2	1151.4	1151.6
167.5°	1169.8	1168.2	1168.3	1168.3	1168.4	1168.4	1168.8	1169.4	1170.1	1170.8	1171.5
170°	1179.5	1178.0	1178.2	1178.4	1178.6	1178.9	1179.3	1180.0	1180.7	1181.3	1182.0
172.5°	1186.8	1185.2	1185.5	1185.7	1185.9	1186.1	1186.6	1187.3	1187.9	1188.6	1189.3
175°	1194.7	1193.1	1193.6	1194.0	1194.5	1194.9	1195.5	1196.2	1196.9	1197.5	1198.2
177.5°	1198.9	1197.8	1198.2	1198.5	1198.9	1199.2	1199.7	1200.2	1200.8	1201.3	1201.9
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1735.6	1738.2	1746.7	1755.2	1764.8	1767.4	1771.7	1768.0	1766.9	1777.0	1784.4
5°	1740.5	1752.4	1775.7	1796.9	1814.8	1827.4	1840.7	1846.0	1855.9	1869.9	1887.1
7.5°	1734.9	1758.1	1794.6	1825.6	1859.3	1883.5	1902.5	1918.7	1938.4	1964.8	1993.6
10°	1728.5	1759.7	1804.2	1842.0	1883.1	1914.3	1940.2	1965.4	1994.6	2031.1	2068.9
12.5°	1716.9	1753.9	1809.5	1854.2	1907.0	1937.7	1972.6	2027.0	2058.3	2109.2	2162.4
15°	1693.4	1734.5	1812.1	1867.2	1926.9	1985.3	2049.7	2101.5	2153.2	2183.1	2258.1
17.5°	1658.5	1718.9	1804.8	1869.1	1945.0	2037.0	2109.3	2167.9	2227.7	2276.1	2313.7
20°	1630.3	1696.0	1794.2	1871.2	1961.4	2060.3	2143.3	2203.0	2254.7	2295.2	2318.4
22.5°	1594.8	1677.4	1773.0	1863.2	1978.4	2076.2	2163.4	2210.4	2253.7	2273.4	2282.3
25°	1538.8	1638.3	1746.5	1856.6	1986.7	2090.2	2169.8	2198.3	2210.9	2191.7	2159.8
27.5°	1478.4	1589.3	1715.8	1844.1	1981.6	2081.1	2138.2	2133.7	2112.3	2050.1	2000.3
30°	1433.3	1555.4	1691.4	1831.4	1969.4	2066.3	2099.5	2066.3	2017.8	1948.2	1877.2
32.5°	1386.0	1512.4	1665.4	1813.3	1947.1	2032.3	2039.5	1982.4	1907.4	1828.2	1739.7
35°	1314.5	1451.2	1616.4	1773.0	1899.7	1953.5	1921.6	1820.8	1731.9	1623.7	1502.9
37.5°	1233.7	1384.6	1550.3	1713.9	1828.7	1842.8	1763.7	1657.5	1532.1	1405.0	1262.9
40°	1173.2	1333.1	1503.6	1668.8	1770.3	1755.7	1654.9	1538.1	1388.8	1233.5	1101.5
42.5°	1119.0	1278.9	1452.6	1614.7	1696.0	1655.9	1538.1	1394.8	1234.3	1088.1	967.2
45°	1025.2	1189.7	1367.6	1524.2	1570.6	1498.3	1342.4	1183.1	1025.2	903.1	807.5
47.5°	934.1	1096.8	1272.9	1410.6	1427.0	1329.7	1159.3	995.5	859.7	760.3	692.9
50°	867.3	1030.5	1205.0	1327.8	1322.4	1205.0	1029.8	873.9	760.4	680.1	635.0
52.5°	807.3	961.5	1129.1	1240.7	1212.6	1084.5	917.3	778.9	685.6	622.8	581.9
55°	714.0	856.6	1015.9	1105.5	1053.7	911.7	770.4	658.9	589.9	542.8	510.9
57.5°	621.3	755.1	891.4	946.6	889.4	758.3	640.5	559.6	507.7	472.8	452.1
60°	564.0	680.8	802.2	850.0	781.7	664.9	572.0	499.7	457.8	429.3	410.7
62.5°	506.7	611.3	725.8	751.8	689.3	590.6	508.3	448.2	413.8	388.4	370.9
65°	428.7	514.2	601.2	618.4	560.7	484.4	419.4	380.2	349.7	331.1	317.2
67.5°	351.5	420.3	481.9	495.8	445.2	392.3	345.3	311.2	290.5	275.1	263.3
70°	305.9	360.3	410.7	422.0	381.5	334.4	298.6	271.4	252.8	239.5	228.3
72.5°	257.6	303.0	344.9	352.5	319.4	283.5	254.0	232.6	216.2	207.7	196.9
75°	197.1	223.6	256.1	258.1	236.2	214.3	191.8	177.8	169.2	158.6	153.3
77.5°	139.1	159.9	178.5	182.1	169.1	154.2	141.6	130.6	123.3	118.4	113.5
80°	106.2	122.8	130.7	135.4	126.1	115.5	108.2	100.9	96.2	92.9	89.6
82.5°	75.9	86.1	93.6	97.1	92.1	85.7	78.4	74.3	70.7	67.9	66.8
85°	38.5	43.1	47.8	49.1	47.8	45.1	41.1	41.1	39.1	38.5	38.5
87.5°	14.0	16.7	17.2	19.4	19.1	20.0	21.0	21.5	22.0	21.3	20.7
90°	3.7	6.4	9.1	11.8	15.6	20.6	25.5	30.5	35.4	35.0	34.5
92.5°	20.0	22.0	24.0	26.0	27.5	28.7	29.9	31.0	32.2	32.3	32.4
95°	54.9	57.2	59.4	61.7	63.0	63.5	63.9	64.4	64.8	64.8	64.8
97.5°	98.2	100.2	102.2	104.1	105.6	106.4	107.3	108.1	109.0	109.0	109.0
100°	130.4	132.2	134.0	135.8	137.1	137.7	138.4	139.1	139.8	139.8	139.8
102.5°	164.1	165.5	167.0	168.4	169.6	170.4	171.3	172.1	173.0	173.2	173.4
105°	218.4	219.1	219.8	220.5	221.0	221.5	221.9	222.4	222.8	223.3	223.7
107.5°	274.3	275.2	276.2	277.2	277.7	277.7	277.7	277.7	277.7	277.9	278.1
110°	310.3	311.6	313.0	314.3	315.0	315.0	315.0	315.0	315.0	315.0	315.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	349.2	350.5	351.9	353.2	353.8	353.6	353.4	353.3	353.1	352.5	352.0
115°	406.5	407.8	409.2	410.5	411.0	410.5	410.1	409.6	409.2	409.0	408.7
117.5°	464.1	465.9	467.7	469.5	469.7	468.5	467.2	466.0	464.7	464.2	463.6
120°	502.2	504.0	505.8	507.6	507.6	505.8	504.0	502.2	500.4	500.4	500.4
122.5°	537.4	539.5	541.7	543.8	544.3	543.0	541.8	540.5	539.2	538.7	538.2
125°	591.5	593.5	595.6	597.6	598.3	597.6	596.9	596.2	595.6	594.9	594.2
127.5°	644.9	647.5	650.1	652.6	653.5	652.7	651.9	651.1	650.3	649.4	648.6
130°	678.5	681.4	684.4	687.3	688.5	688.1	687.6	687.2	686.7	686.3	685.8
132.5°	715.2	717.6	720.0	722.4	723.6	723.7	723.8	723.9	724.0	723.0	722.0
135°	765.2	767.6	770.1	772.6	774.0	774.5	774.9	775.4	775.8	775.6	775.4
137.5°	817.2	819.2	821.2	823.2	824.6	825.1	825.7	826.3	826.9	826.7	826.5
140°	848.8	850.8	852.8	854.8	856.4	857.6	858.7	859.8	860.9	860.9	860.9
142.5°	881.2	883.2	885.2	887.3	888.7	889.4	890.2	891.0	891.7	891.9	892.1
145°	927.3	928.9	930.5	932.1	933.5	934.9	936.2	937.6	938.9	939.1	939.4
147.5°	969.2	971.1	972.9	974.8	976.2	977.1	978.0	978.9	979.8	980.3	980.8
150°	997.0	998.3	999.7	1001.0	1002.2	1003.1	1004.0	1004.9	1005.8	1006.4	1007.1
152.5°	1022.1	1023.5	1024.8	1026.2	1027.4	1028.5	1029.5	1030.6	1031.7	1032.5	1033.4
155°	1059.1	1059.8	1060.5	1061.1	1061.8	1062.5	1063.2	1063.8	1064.5	1065.6	1066.8
157.5°	1091.1	1091.5	1092.0	1092.4	1092.9	1093.3	1093.7	1094.1	1094.5	1096.0	1097.6
160°	1110.5	1111.0	1111.4	1111.9	1112.2	1112.5	1112.7	1112.9	1113.1	1114.5	1115.8
162.5°	1128.0	1128.1	1128.2	1128.3	1128.4	1128.7	1128.9	1129.1	1129.3	1130.9	1132.4
165°	1151.4	1151.2	1150.9	1150.7	1150.6	1150.6	1150.6	1150.6	1150.6	1152.2	1153.8
167.5°	1170.8	1170.1	1169.4	1168.8	1168.4	1168.4	1168.3	1168.3	1168.2	1169.8	1171.4
170°	1181.3	1180.7	1180.0	1179.3	1178.9	1178.6	1178.4	1178.2	1178.0	1179.5	1181.1
172.5°	1188.6	1187.9	1187.3	1186.6	1186.1	1185.9	1185.7	1185.5	1185.2	1186.8	1188.4
175°	1197.5	1196.9	1196.2	1195.5	1194.9	1194.5	1194.0	1193.6	1193.1	1194.7	1196.3
177.5°	1201.3	1200.8	1200.2	1199.7	1199.2	1198.9	1198.5	1198.2	1197.8	1198.9	1200.0
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1790.8	1798.2	1798.2	1799.3	1807.8	1806.7	1806.2
5°	1905.7	1917.0	1918.3	1930.3	1938.2	1935.6	1928.3
7.5°	2014.1	2035.1	2051.0	2059.9	2070.4	2076.9	2074.0
10°	2100.1	2130.6	2149.2	2161.8	2177.1	2188.4	2184.4
12.5°	2178.2	2214.5	2240.0	2261.6	2263.6	2278.1	2268.3
15°	2299.9	2338.3	2342.3	2358.2	2370.9	2369.5	2370.2
17.5°	2340.1	2352.4	2354.9	2355.3	2355.5	2350.8	2340.7
20°	2325.7	2321.1	2309.8	2301.2	2285.9	2283.9	2270.7
22.5°	2257.8	2243.1	2214.8	2196.1	2172.3	2166.1	2162.4
25°	2124.0	2091.5	2046.4	2003.2	1991.3	1968.1	1974.7
27.5°	1940.5	1889.8	1840.9	1805.9	1774.2	1739.4	1749.4
30°	1811.5	1754.4	1685.4	1632.3	1598.5	1565.3	1559.3
32.5°	1657.5	1573.9	1497.0	1450.2	1398.4	1377.4	1354.4
35°	1392.1	1310.5	1234.2	1168.5	1130.7	1101.5	1074.9
37.5°	1153.4	1059.4	997.8	944.6	917.3	900.6	904.8
40°	1005.3	923.0	877.9	837.4	812.2	800.2	802.9
42.5°	885.3	823.7	786.6	758.8	741.0	734.4	732.8
45°	749.1	714.6	684.1	668.2	659.6	652.3	647.6
47.5°	656.2	628.1	610.9	601.4	593.9	586.4	586.3
50°	600.5	581.9	570.0	560.0	554.1	548.8	553.4
52.5°	558.0	541.1	529.1	520.2	518.0	513.2	513.1
55°	495.0	481.7	473.1	465.1	461.2	458.5	455.2
57.5°	437.7	425.1	417.1	412.1	404.5	401.8	400.8
60°	396.8	386.8	378.9	372.2	368.9	363.6	363.6
62.5°	359.1	349.2	341.7	336.7	331.2	329.1	329.7
65°	304.6	296.6	289.3	284.0	282.7	278.7	280.0
67.5°	254.4	249.1	241.4	238.5	236.0	233.8	232.2
70°	221.0	215.7	211.7	207.7	205.7	205.7	205.7
72.5°	192.8	186.5	184.1	179.0	180.2	178.1	176.0
75°	149.3	145.3	143.3	141.3	138.0	138.0	138.0
77.5°	109.9	108.7	106.3	104.2	103.4	102.7	103.0
80°	84.9	84.3	82.9	82.9	81.6	81.0	79.6
82.5°	65.3	63.6	62.8	62.2	62.0	61.8	61.6
85°	37.2	35.8	35.8	36.5	35.2	35.2	35.8
87.5°	21.2	21.1	20.5	20.6	21.1	20.6	20.7
90°	34.1	33.6	33.5	33.8	34.0	34.2	34.4
92.5°	32.5	32.6	32.6	32.7	32.7	32.8	32.8
95°	64.8	64.8	64.6	64.1	63.7	63.2	62.8
97.5°	109.0	109.0	109.0	108.9	108.9	108.8	108.8
100°	139.8	139.8	139.7	139.4	139.2	139.0	138.8
102.5°	173.5	173.7	173.7	173.5	173.2	173.0	172.8
105°	224.2	224.6	224.9	224.9	224.9	224.9	224.9
107.5°	278.3	278.4	278.0	277.0	275.9	274.9	273.9
110°	315.0	315.0	314.7	314.0	313.3	312.6	312.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	351.5	350.9	350.4	349.9	349.4	348.9	348.4
115°	408.5	408.3	407.8	407.2	406.5	405.8	405.1
117.5°	463.1	462.5	461.9	461.3	460.6	459.9	459.2
120°	500.4	500.4	500.0	499.3	498.7	498.0	497.3
122.5°	537.6	537.1	536.6	536.1	535.6	535.1	534.6
125°	593.5	592.9	592.4	592.2	592.0	591.7	591.5
127.5°	647.8	647.0	646.2	645.5	644.8	644.1	643.4
130°	685.4	684.9	684.2	683.3	682.4	681.5	680.6
132.5°	721.0	720.0	719.2	718.5	717.7	717.0	716.3
135°	775.2	774.9	774.5	773.8	773.1	772.5	771.8
137.5°	826.4	826.2	825.6	824.7	823.8	822.9	822.0
140°	860.9	860.9	860.5	859.6	858.7	857.8	856.9
142.5°	892.3	892.4	892.1	891.2	890.3	889.4	888.5
145°	939.6	939.8	939.5	938.6	937.7	936.8	935.9
147.5°	981.3	981.8	981.6	980.8	979.9	979.1	978.2
150°	1007.8	1008.5	1008.5	1007.8	1007.1	1006.4	1005.8
152.5°	1034.3	1035.1	1035.1	1034.3	1033.4	1032.5	1031.7
155°	1067.9	1069.0	1069.2	1068.6	1067.9	1067.2	1066.5
157.5°	1099.1	1100.6	1100.8	1099.8	1098.7	1097.6	1096.5
160°	1117.2	1118.5	1118.8	1117.9	1117.0	1116.1	1115.2
162.5°	1133.9	1135.5	1135.7	1134.6	1133.5	1132.4	1131.4
165°	1155.3	1156.9	1157.1	1156.0	1154.9	1153.8	1152.6
167.5°	1173.0	1174.5	1174.7	1173.6	1172.4	1171.2	1170.1
170°	1182.7	1184.3	1184.4	1183.0	1181.7	1180.3	1179.0
172.5°	1190.0	1191.5	1191.7	1190.3	1189.0	1187.6	1186.3
175°	1197.9	1199.4	1199.6	1198.2	1196.9	1195.5	1194.2
177.5°	1201.0	1202.1	1202.1	1201.0	1200.0	1198.9	1197.8
180°	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2	1200.2

(END OF REPORT)