

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: P333011-927

Luminaire Tested: **SA4XXRDIP-C1195D1205U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P333011-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1195D1205U927-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

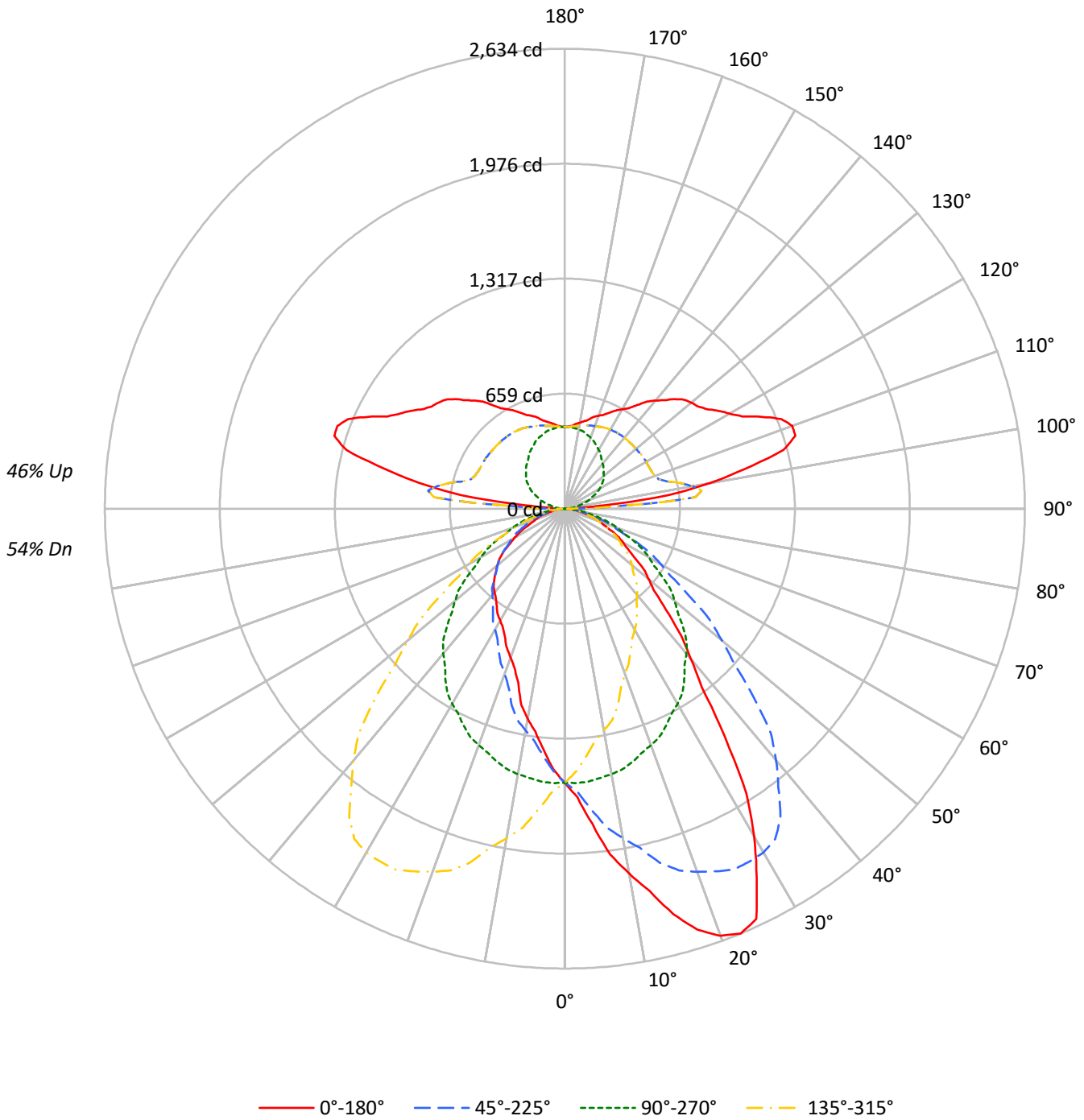
Lumens per Lamp: N/A  
Luminaire Lumens: 7378.4 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	42	38	38	35	33	30
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	49	42	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	34	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17
10	49	37	29	25	45	34	28	24	30	25	21	27	22	19	23	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12674	12674	12674	12674
5°	14699	12712	11235	12712
10°	17390	12656	10027	12656
15°	20088	12538	8616	12538
20°	22365	12378	7792	12378
25°	23087	12219	7234	12219
30°	20211	12028	6898	12028
35°	15733	11744	6695	11744
40°	11798	11418	6585	11418
45°	9315	10896	6528	10896
50°	7863	10295	6339	10295
55°	6854	9633	6000	9633
60°	6168	8946	5310	8946
65°	5436	8202	4567	8202
70°	4898	7435	4121	7435
75°	4105	6591	3512	6591
80°	3468	5616	3292	5616
85°	2927	4400	2927	4400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	2.1
10°-20°	458.8	6.2
20°-30°	717.6	9.7
30°-40°	797.8	10.8
40°-50°	707.8	9.6
50°-60°	551.5	7.5
60°-70°	361.1	4.9
70°-80°	177.6	2.4
80°-90°	46.4	0.6
90°-100°	338.4	4.6
100°-110°	704.3	9.5
110°-120°	630.9	8.6
120°-130°	530.7	7.2
130°-140°	442.5	6.0
140°-150°	338.0	4.6
150°-160°	237.6	3.2
160°-170°	139.8	1.9
170°-180°	45.5	0.6
0°-30°	1328.5	18.0
0°-40°	2126.3	28.8
0°-60°	3385.7	45.9
0°-90°	3970.7	53.8
90°-120°	1673.6	22.7
90°-150°	2984.8	40.5
90°-180°	3408.0	46.2
0°-180°	7378.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1570	1570	1570	1570	1570	
5°	1814	1569	1386	1569	1814	183
15°	2404	1500	1031	1500	2404	683
25°	2592	1372	812	1372	2592	1150
35°	1596	1192	679	1192	1596	1001
45°	816	954	572	954	816	646
55°	487	684	426	684	487	443
65°	285	429	239	429	285	286
75°	132	211	113	211	132	145
85°	32	48	32	48	32	36
90°	19	1	19	1	19	17
95°	225	30	225	30	225	349
105°	1295	108	1295	108	1295	1280
115°	1244	190	1244	190	1244	1235
125°	992	264	992	264	992	902
135°	887	314	887	314	887	685
145°	724	362	724	362	724	459
155°	607	412	607	412	607	283
165°	529	448	529	448	529	152
175°	477	468	477	468	477	46
180°	469	469	469	469	469	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1655.8	1660.4	1655.8	1655.3	1650.3	1648.8	1646.7	1640.1	1628.0	1621.0	1622.5
5°	1813.9	1829.8	1820.9	1819.6	1805.8	1791.8	1783.0	1762.8	1741.2	1726.7	1714.7
7.5°	1996.9	2006.0	2000.4	1991.5	1969.0	1956.3	1935.8	1909.1	1870.5	1841.0	1814.1
10°	2121.4	2128.9	2126.5	2110.0	2093.5	2060.0	2041.1	2003.7	1955.0	1916.4	1880.4
12.5°	2243.8	2251.9	2229.7	2230.4	2199.3	2172.9	2142.8	2095.8	2039.6	1989.8	1944.6
15°	2403.5	2393.3	2393.3	2380.7	2345.9	2309.2	2278.2	2228.9	2158.1	2098.6	2036.0
17.5°	2528.4	2532.0	2526.7	2497.0	2469.6	2431.7	2374.9	2317.3	2251.5	2171.7	2107.7
20°	2603.3	2603.3	2597.6	2577.4	2542.0	2501.5	2440.2	2377.5	2294.0	2213.7	2141.6
22.5°	2633.7	2635.7	2629.0	2612.3	2580.5	2540.9	2488.7	2425.1	2339.1	2248.6	2159.3
25°	2591.9	2604.0	2605.2	2600.8	2591.3	2567.2	2522.4	2457.2	2380.0	2282.0	2185.9
27.5°	2379.6	2394.8	2408.2	2430.0	2459.1	2474.3	2476.3	2443.2	2375.8	2281.5	2184.8
30°	2168.1	2180.8	2221.9	2275.7	2317.5	2355.4	2388.3	2397.1	2359.2	2274.4	2172.6
32.5°	1933.4	1950.6	1991.7	2049.5	2119.1	2183.3	2257.2	2294.9	2293.9	2243.1	2148.8
35°	1596.4	1609.1	1647.0	1707.7	1791.2	1886.7	2003.7	2094.8	2156.8	2152.4	2094.8
37.5°	1287.5	1301.8	1340.1	1390.4	1471.4	1589.7	1702.9	1828.4	1943.0	2007.4	1988.1
40°	1119.5	1120.1	1157.5	1209.3	1285.2	1388.3	1511.6	1650.7	1778.5	1882.9	1903.1
42.5°	986.9	987.1	1011.7	1067.6	1122.3	1219.3	1337.0	1475.2	1624.8	1745.3	1798.9
45°	815.9	821.6	841.9	875.4	918.4	1000.6	1094.8	1223.2	1390.8	1533.7	1622.9
47.5°	690.9	699.3	712.2	739.5	773.8	828.5	906.5	1021.8	1158.2	1315.4	1442.3
50°	626.1	627.4	643.9	659.0	688.8	732.5	800.7	896.8	1022.1	1173.2	1314.3
52.5°	570.5	570.2	580.1	599.4	623.5	657.5	712.6	800.2	911.2	1046.8	1192.4
55°	487.0	490.2	497.7	512.9	531.3	555.3	599.0	664.7	752.0	867.8	1000.0
57.5°	423.5	425.2	431.1	437.5	454.4	471.8	504.6	550.2	623.9	718.7	841.9
60°	382.0	382.6	384.5	394.0	407.3	423.7	445.9	484.5	546.4	633.1	730.6
62.5°	341.5	342.7	345.6	352.5	362.8	374.1	397.4	428.3	479.7	553.7	641.4
65°	284.6	285.3	289.7	292.2	300.4	310.5	327.6	348.5	383.9	445.9	512.3
67.5°	237.8	237.8	238.1	241.5	247.2	253.9	264.1	280.8	307.5	345.6	404.2
70°	207.5	207.5	208.7	210.6	213.8	219.4	225.1	237.8	257.5	288.4	333.4
72.5°	179.1	179.6	180.9	181.3	182.9	187.6	191.8	199.9	214.4	237.8	274.1
75°	131.6	133.5	136.7	139.2	142.3	141.6	146.1	151.1	155.6	169.5	190.4
77.5°	97.9	96.9	97.3	99.4	99.8	100.4	103.6	107.5	110.8	117.4	124.8
80°	74.6	74.6	76.5	77.2	76.5	77.2	80.3	82.2	83.5	86.0	93.0
82.5°	56.4	57.4	56.8	57.4	57.8	58.5	61.1	61.5	62.7	63.8	66.7
85°	31.6	32.2	32.9	31.6	31.6	31.6	32.9	33.5	34.8	34.1	35.4
87.5°	15.0	14.5	15.2	15.0	15.3	14.8	15.1	16.0	14.7	15.4	15.1
90°	19.3	19.3	20.3	19.3	18.4	18.4	17.5	16.6	15.7	16.6	14.7
92.5°	70.9	70.9	74.0	79.0	89.8	108.3	136.0	180.8	243.2	292.0	255.6
95°	224.6	236.5	253.2	281.7	326.8	416.1	539.4	682.1	771.4	750.2	566.1
97.5°	600.4	619.5	647.1	702.5	768.7	864.7	954.7	1007.8	969.2	790.2	529.8
100°	844.1	851.5	879.1	935.3	1015.3	1083.5	1128.5	1110.2	975.7	740.1	480.5
102.5°	1056.2	1062.1	1091.2	1131.9	1181.0	1209.3	1196.3	1105.0	920.5	677.5	447.3
105°	1295.1	1300.7	1313.6	1321.0	1319.1	1281.4	1190.3	1030.9	820.1	603.9	418.8
107.5°	1383.9	1381.5	1372.3	1351.3	1305.8	1223.8	1095.4	925.8	739.2	562.6	413.7
110°	1385.4	1377.1	1360.5	1321.8	1256.5	1155.2	1021.8	862.5	698.7	548.7	415.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1342.0	1328.5	1305.3	1258.5	1184.3	1083.1	957.0	816.1	675.8	542.0	419.5
115°	1243.6	1236.3	1206.8	1151.6	1078.9	990.5	882.8	769.5	654.5	538.5	428.0
117.5°	1144.0	1138.3	1108.5	1062.1	1000.1	925.1	840.4	746.7	644.9	537.6	437.0
120°	1088.1	1077.9	1054.0	1013.5	961.0	895.6	822.0	736.4	639.8	537.6	443.7
122.5°	1043.9	1033.7	1013.5	978.9	934.5	877.3	810.2	727.5	633.9	536.9	450.4
125°	992.3	986.8	969.3	942.6	905.8	855.2	791.6	712.5	624.1	535.8	460.3
127.5°	962.1	956.6	941.9	918.1	881.1	833.1	769.8	694.0	611.0	533.7	468.2
130°	944.4	938.9	924.2	901.2	863.5	814.7	752.1	679.4	602.9	533.0	474.0
132.5°	924.6	919.0	905.1	879.1	842.1	793.3	732.2	663.8	595.6	532.3	479.2
135°	887.4	881.9	867.1	841.4	804.5	758.5	702.3	642.5	584.6	531.2	487.0
137.5°	841.4	834.7	822.6	797.2	762.7	721.1	673.8	623.2	575.0	530.9	491.5
140°	808.2	800.8	788.0	767.7	735.5	696.8	655.4	612.1	569.8	530.2	495.3
142.5°	772.9	767.7	756.3	737.5	709.0	675.5	639.9	601.8	565.4	530.2	498.2
145°	724.5	719.9	710.7	695.0	672.0	646.2	618.6	587.3	557.9	528.4	499.9
147.5°	681.5	679.9	672.9	659.5	642.5	622.3	600.2	575.4	551.0	525.1	500.7
150°	657.3	656.3	650.8	638.8	624.1	607.5	589.1	568.0	545.9	522.8	500.7
152.5°	635.2	634.2	630.9	621.2	608.6	595.0	578.1	559.8	540.0	519.2	499.3
155°	606.7	606.7	603.9	596.5	587.3	576.2	562.4	547.7	531.2	513.7	497.1
157.5°	581.6	581.6	580.0	574.4	567.4	558.6	547.0	534.6	522.1	507.9	494.7
160°	566.1	566.1	565.2	559.7	554.1	546.8	536.6	526.6	515.5	503.5	492.5
162.5°	551.4	552.2	551.2	545.7	541.6	535.0	527.1	518.4	509.6	499.1	490.3
165°	529.3	530.2	531.2	527.4	523.8	519.2	512.7	507.2	499.9	492.5	486.0
167.5°	511.8	512.5	512.7	510.3	508.5	505.7	500.6	496.4	491.0	485.8	481.6
170°	500.7	500.7	501.7	500.7	498.9	496.1	492.5	489.7	485.1	481.4	478.6
172.5°	489.7	491.2	492.1	491.2	490.0	488.1	485.8	483.8	480.0	477.0	475.7
175°	476.8	478.6	480.5	478.6	478.6	478.6	476.8	475.9	474.0	472.2	472.2
177.5°	469.3	470.7	472.2	471.5	472.2	471.5	471.5	470.7	470.0	469.3	469.3
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1617.4	1610.3	1606.8	1598.7	1589.0	1584.0	1579.5	1572.9	1564.2	1555.1	1548.6
5°	1699.5	1684.3	1665.3	1642.6	1622.3	1602.7	1585.6	1568.6	1549.0	1528.8	1508.5
7.5°	1783.8	1753.9	1721.6	1684.3	1648.0	1615.0	1584.6	1555.5	1522.7	1493.2	1466.3
10°	1842.5	1802.0	1757.1	1709.6	1662.2	1621.0	1580.6	1543.9	1503.4	1467.4	1437.0
12.5°	1890.0	1842.5	1788.4	1729.3	1672.3	1622.5	1576.0	1528.2	1482.2	1443.1	1402.6
15°	1968.9	1903.8	1831.1	1760.2	1686.2	1618.5	1555.9	1500.2	1447.8	1392.7	1354.2
17.5°	2023.2	1945.9	1857.5	1772.3	1685.0	1605.1	1532.9	1466.6	1406.0	1349.9	1303.9
20°	2055.6	1970.2	1872.2	1775.4	1677.4	1592.0	1514.2	1440.8	1378.2	1317.5	1270.0
22.5°	2073.8	1979.3	1872.2	1770.8	1669.3	1576.8	1491.4	1415.0	1346.8	1286.1	1233.6
25°	2079.6	1978.4	1869.0	1752.6	1641.3	1543.3	1454.7	1371.8	1295.9	1235.2	1179.6
27.5°	2071.6	1952.3	1840.3	1720.9	1606.0	1502.7	1409.7	1322.6	1246.7	1181.5	1124.4
30°	2059.4	1931.6	1811.4	1687.5	1571.1	1471.8	1373.7	1290.3	1211.2	1143.5	1086.0
32.5°	2033.1	1906.3	1777.0	1650.0	1532.2	1429.8	1336.8	1252.8	1175.3	1106.1	1045.0
35°	1980.9	1852.5	1712.1	1581.8	1466.1	1359.9	1272.6	1191.6	1117.6	1043.6	979.1
37.5°	1912.2	1781.1	1641.4	1498.7	1382.8	1282.5	1202.5	1126.5	1054.2	986.7	915.2
40°	1847.5	1728.0	1583.7	1442.1	1323.2	1226.4	1152.4	1083.5	1010.7	943.6	872.2
42.5°	1769.1	1667.2	1521.5	1379.3	1261.9	1168.7	1099.8	1032.4	966.2	901.2	826.6
45°	1638.2	1561.0	1424.3	1287.8	1169.5	1077.1	1013.9	954.4	896.2	834.2	764.1
47.5°	1488.1	1435.8	1318.0	1178.1	1068.7	985.6	924.5	875.8	826.6	764.7	703.1
50°	1383.9	1350.4	1236.5	1108.7	1004.4	927.9	865.2	819.7	778.6	719.1	664.1
52.5°	1272.6	1254.7	1158.6	1036.4	935.6	860.5	807.1	766.0	724.5	675.1	623.6
55°	1103.0	1112.5	1030.9	925.3	830.4	767.2	718.5	684.4	649.0	607.2	567.4
57.5°	929.8	964.4	909.7	816.9	728.0	669.6	632.9	604.1	574.4	539.8	505.7
60°	826.0	855.1	824.1	742.5	664.7	610.4	576.2	554.1	524.3	492.7	466.8
62.5°	724.8	756.0	737.6	671.7	599.4	552.7	522.5	501.9	479.8	452.3	425.3
65°	597.7	617.9	609.1	563.6	512.3	472.5	444.7	429.4	409.2	389.0	365.0
67.5°	457.8	496.9	491.7	467.5	423.3	392.1	373.9	360.5	342.1	327.0	310.7
70°	376.4	412.4	411.8	392.1	368.1	339.0	326.4	315.0	298.5	284.0	270.7
72.5°	308.0	341.0	345.9	330.9	314.5	292.5	280.4	272.5	256.5	246.5	235.8
75°	215.7	239.7	246.1	246.1	238.4	227.0	216.3	211.3	199.9	191.0	184.7
77.5°	141.4	156.6	166.4	168.7	169.9	166.1	157.2	153.7	145.0	141.8	135.7
80°	99.9	110.0	121.4	125.2	128.4	127.1	123.3	120.8	112.6	109.4	106.9
82.5°	69.1	74.6	84.0	92.4	91.4	94.7	91.4	89.4	83.3	82.1	79.5
85°	36.0	36.7	37.9	43.6	46.8	48.1	48.7	47.5	45.6	45.6	41.1
87.5°	14.7	14.2	14.1	14.1	14.4	16.3	17.3	17.3	16.2	15.3	13.9
90°	12.9	12.9	7.4	7.4	6.4	5.5	2.8	1.0	2.8	5.5	6.4
92.5°	185.9	114.5	67.7	48.6	35.2	23.9	15.3	10.5	15.3	23.9	35.2
95°	346.1	195.1	115.1	76.4	54.3	42.4	33.1	30.3	33.1	42.4	54.3
97.5°	311.2	186.5	124.8	92.4	73.4	62.4	54.5	54.5	54.5	62.4	73.4
100°	292.7	188.7	134.4	105.0	87.5	76.4	69.9	69.9	69.9	76.4	87.5
102.5°	287.6	196.1	146.9	118.9	102.2	91.9	86.2	84.7	86.2	91.9	102.2
105°	289.9	213.6	169.4	142.7	126.1	115.1	110.4	107.7	110.4	115.1	126.1
107.5°	303.6	234.0	193.5	167.2	151.3	139.6	134.9	133.1	134.9	139.6	151.3
110°	313.9	249.5	209.0	184.1	167.5	156.5	151.9	150.0	151.9	156.5	167.5





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	325.0	264.2	225.1	200.3	183.7	173.4	168.1	166.3	168.1	173.4	183.7
115°	342.5	287.2	250.4	225.5	208.0	198.8	192.4	189.6	192.4	198.8	208.0
117.5°	360.3	309.5	274.5	248.7	232.3	222.2	216.5	213.9	216.5	222.2	232.3
120°	372.8	325.0	289.9	264.2	248.5	238.4	232.0	230.1	232.0	238.4	248.5
122.5°	384.6	339.7	304.7	279.6	262.5	253.2	246.7	244.9	246.7	253.2	262.5
125°	402.3	359.9	326.8	301.0	283.5	273.4	267.8	264.2	267.8	273.4	283.5
127.5°	417.6	378.7	346.7	320.7	302.5	290.9	284.2	281.3	284.2	290.9	302.5
130°	427.1	391.3	359.9	333.2	315.8	301.9	294.5	290.9	294.5	301.9	315.8
132.5°	436.7	401.6	370.3	345.0	326.1	313.0	303.4	300.5	303.4	313.0	326.1
135°	449.2	416.1	385.7	361.8	342.5	326.8	317.6	313.9	317.6	326.8	342.5
137.5°	458.0	427.1	398.8	376.0	355.8	341.0	330.8	327.3	330.8	341.0	355.8
140°	463.9	434.5	406.9	384.8	365.4	349.8	339.7	336.9	339.7	349.8	365.4
142.5°	468.3	441.1	414.2	392.8	374.3	359.3	350.0	347.2	350.0	359.3	374.3
145°	473.2	448.3	424.4	404.1	386.6	373.8	364.6	361.8	364.6	373.8	386.6
147.5°	477.4	455.7	433.2	414.9	400.4	387.1	379.1	378.1	379.1	387.1	400.4
150°	479.6	459.3	439.1	421.6	407.8	396.7	389.4	388.5	389.4	396.7	407.8
152.5°	481.1	462.3	444.3	428.3	415.9	405.6	398.2	398.0	398.2	405.6	415.9
155°	482.4	466.7	451.1	437.3	427.1	417.9	412.4	411.5	412.4	417.9	427.1
157.5°	482.4	469.8	456.6	445.7	436.9	429.7	424.5	424.5	424.5	429.7	436.9
160°	482.4	471.3	460.3	450.1	442.8	436.3	432.6	432.6	432.6	436.3	442.8
162.5°	482.4	472.8	462.5	454.6	447.9	442.2	439.3	440.0	439.3	442.2	447.9
165°	480.5	473.2	464.9	459.3	454.7	450.1	448.3	448.3	448.3	450.1	454.7
167.5°	478.3	472.9	466.9	462.6	460.1	456.6	455.7	456.6	455.7	456.6	460.1
170°	476.8	472.2	467.6	464.9	463.0	460.3	459.3	460.3	459.3	460.3	463.0
172.5°	475.4	471.5	468.3	466.4	465.2	463.2	463.0	463.9	463.0	463.2	465.2
175°	473.2	470.4	468.6	468.6	467.6	466.7	466.7	467.6	466.7	466.7	467.6
177.5°	470.7	469.3	468.6	468.6	468.6	467.8	468.6	469.3	468.6	467.8	468.6
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



TEST NUMBER: P333011-927

CATALOG NUMBER: SA4XXRDIP-C1195D1205U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1541.5	1536.4	1529.9	1522.3	1513.1	1505.1	1501.5	1504.6	1506.1	1502.1	1501.5
5°	1494.5	1478.8	1466.1	1447.2	1431.9	1419.3	1410.5	1406.7	1407.9	1397.8	1395.3
7.5°	1441.9	1423.1	1402.3	1379.8	1358.8	1340.2	1330.5	1325.2	1314.5	1309.9	1302.2
10°	1407.9	1382.6	1362.4	1335.8	1311.8	1289.7	1278.9	1270.0	1259.3	1254.2	1243.5
12.5°	1373.0	1343.6	1321.4	1293.8	1269.2	1242.6	1232.3	1215.9	1199.0	1188.4	1174.6
15°	1323.8	1288.4	1261.2	1228.3	1199.2	1168.9	1141.6	1111.3	1099.9	1075.9	1061.9
17.5°	1266.2	1230.3	1196.7	1152.5	1107.6	1069.9	1040.9	1011.9	994.4	979.1	972.0
20°	1228.3	1195.4	1148.6	1097.3	1047.4	1005.7	982.2	963.3	944.3	933.6	926.0
22.5°	1192.4	1150.3	1096.0	1040.7	990.7	958.1	938.3	918.8	903.3	893.1	883.0
25°	1132.2	1077.1	1019.5	956.3	922.2	893.7	872.2	856.3	846.9	833.6	828.5
27.5°	1070.3	1003.6	940.2	897.6	862.1	836.0	817.3	805.4	793.4	784.9	778.3
30°	1022.7	955.1	898.1	857.6	821.6	800.1	784.9	771.0	761.5	754.6	749.5
32.5°	975.7	908.0	860.2	816.7	788.2	767.2	751.0	740.6	733.2	724.2	721.1
35°	907.6	847.6	805.8	766.6	737.4	718.5	705.8	695.1	688.8	686.3	684.4
37.5°	842.2	793.0	748.1	716.0	690.1	675.1	660.2	654.9	650.5	646.0	648.1
40°	800.7	754.6	714.7	680.6	659.7	643.3	634.4	628.0	624.2	624.2	624.2
42.5°	764.8	719.6	680.8	650.2	629.3	615.4	605.5	600.2	599.0	598.5	601.5
45°	709.0	667.3	628.0	602.8	585.0	571.2	565.5	561.0	561.0	563.6	564.2
47.5°	653.7	614.7	583.1	554.8	538.6	529.9	525.0	522.7	522.9	525.5	528.4
50°	619.8	581.2	550.2	525.0	509.8	501.5	497.1	495.9	497.1	497.1	501.5
52.5°	582.9	548.3	517.8	496.6	479.4	471.7	469.3	467.5	468.3	470.3	472.2
55°	528.8	497.7	468.7	448.5	435.8	430.7	425.0	425.6	424.4	425.6	425.6
57.5°	474.5	446.6	419.6	403.5	392.4	385.1	378.8	380.6	378.7	378.5	377.5
60°	439.6	409.2	387.7	373.2	360.5	354.2	348.5	349.7	347.8	346.6	344.0
62.5°	401.6	376.4	355.8	341.8	331.7	324.3	318.6	317.3	313.0	308.6	303.1
65°	346.6	325.7	307.4	294.1	284.6	278.9	274.5	270.7	261.2	251.1	246.1
67.5°	293.1	278.1	260.9	249.7	242.0	234.6	226.1	219.6	210.7	205.2	202.0
70°	258.6	244.2	229.6	218.8	210.6	203.7	194.2	189.7	183.4	180.9	177.8
72.5°	225.8	212.2	198.8	189.0	180.2	174.8	167.4	163.0	160.2	159.1	156.0
75°	175.9	165.1	155.0	146.1	139.2	135.4	132.2	129.0	127.8	122.1	118.9
77.5°	128.3	121.2	114.9	108.5	103.6	101.1	95.0	91.3	89.2	86.5	85.9
80°	99.9	94.9	88.6	84.8	77.8	75.3	72.7	72.1	71.5	70.8	70.2
82.5°	75.2	70.1	63.8	61.5	59.6	58.1	56.6	55.9	55.3	55.7	55.5
85°	37.9	35.4	35.4	34.8	34.1	33.5	32.9	32.9	32.2	32.9	32.2
87.5°	14.1	13.6	14.7	13.7	14.6	15.0	14.3	14.4	15.1	14.3	14.3
90°	7.4	7.4	12.9	12.9	14.7	16.6	15.7	16.6	17.5	18.4	18.4
92.5°	48.6	67.7	114.5	185.9	255.6	292.0	243.2	180.8	136.0	108.3	89.8
95°	76.4	115.1	195.1	346.1	566.1	750.2	771.4	682.1	539.4	416.1	326.8
97.5°	92.4	124.8	186.5	311.2	529.8	790.2	969.2	1007.8	954.7	864.7	768.7
100°	105.0	134.4	188.7	292.7	480.5	740.1	975.7	1110.2	1128.5	1083.5	1015.3
102.5°	118.9	146.9	196.1	287.6	447.3	677.5	920.5	1105.0	1196.3	1209.3	1181.0
105°	142.7	169.4	213.6	289.9	418.8	603.9	820.1	1030.9	1190.3	1281.4	1319.1
107.5°	167.2	193.5	234.0	303.6	413.7	562.6	739.2	925.8	1095.4	1223.8	1305.8
110°	184.1	209.0	249.5	313.9	415.2	548.7	698.7	862.5	1021.8	1155.2	1256.5



TEST NUMBER: P333011-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.3	225.1	264.2	325.0	419.5	542.0	675.8	816.1	957.0	1083.1	1184.3
115°	225.5	250.4	287.2	342.5	428.0	538.5	654.5	769.5	882.8	990.5	1078.9
117.5°	248.7	274.5	309.5	360.3	437.0	537.6	644.9	746.7	840.4	925.1	1000.1
120°	264.2	289.9	325.0	372.8	443.7	537.6	639.8	736.4	822.0	895.6	961.0
122.5°	279.6	304.7	339.7	384.6	450.4	536.9	633.9	727.5	810.2	877.3	934.5
125°	301.0	326.8	359.9	402.3	460.3	535.8	624.1	712.5	791.6	855.2	905.8
127.5°	320.7	346.7	378.7	417.6	468.2	533.7	611.0	694.0	769.8	833.1	881.1
130°	333.2	359.9	391.3	427.1	474.0	533.0	602.9	679.4	752.1	814.7	863.5
132.5°	345.0	370.3	401.6	436.7	479.2	532.3	595.6	663.8	732.2	793.3	842.1
135°	361.8	385.7	416.1	449.2	487.0	531.2	584.6	642.5	702.3	758.5	804.5
137.5°	376.0	398.8	427.1	458.0	491.5	530.9	575.0	623.2	673.8	721.1	762.7
140°	384.8	406.9	434.5	463.9	495.3	530.2	569.8	612.1	655.4	696.8	735.5
142.5°	392.8	414.2	441.1	468.3	498.2	530.2	565.4	601.8	639.9	675.5	709.0
145°	404.1	424.4	448.3	473.2	499.9	528.4	557.9	587.3	618.6	646.2	672.0
147.5°	414.9	433.2	455.7	477.4	500.7	525.1	551.0	575.4	600.2	622.3	642.5
150°	421.6	439.1	459.3	479.6	500.7	522.8	545.9	568.0	589.1	607.5	624.1
152.5°	428.3	444.3	462.3	481.1	499.3	519.2	540.0	559.8	578.1	595.0	608.6
155°	437.3	451.1	466.7	482.4	497.1	513.7	531.2	547.7	562.4	576.2	587.3
157.5°	445.7	456.6	469.8	482.4	494.7	507.9	522.1	534.6	547.0	558.6	567.4
160°	450.1	460.3	471.3	482.4	492.5	503.5	515.5	526.6	536.6	546.8	554.1
162.5°	454.6	462.5	472.8	482.4	490.3	499.1	509.6	518.4	527.1	535.0	541.6
165°	459.3	464.9	473.2	480.5	486.0	492.5	499.9	507.2	512.7	519.2	523.8
167.5°	462.6	466.9	472.9	478.3	481.6	485.8	491.0	496.4	500.6	505.7	508.5
170°	464.9	467.6	472.2	476.8	478.6	481.4	485.1	489.7	492.5	496.1	498.9
172.5°	466.4	468.3	471.5	475.4	475.7	477.0	480.0	483.8	485.8	488.1	490.0
175°	468.6	468.6	470.4	473.2	472.2	472.2	474.0	475.9	476.8	478.6	478.6
177.5°	468.6	468.6	469.3	470.7	469.3	469.3	470.0	470.7	471.5	471.5	472.2
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



TEST NUMBER: P333011-927

CATALOG NUMBER: SA4XXRDIP-C1195D1205U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1498.5	1499.5	1496.0	1494.9	1496.0	1499.5	1498.5	1501.5	1502.1	1506.1	1504.6
5°	1390.2	1388.9	1385.8	1386.4	1385.8	1388.9	1390.2	1395.3	1397.8	1407.9	1406.7
7.5°	1297.6	1292.7	1294.0	1289.0	1294.0	1292.7	1297.6	1302.2	1309.9	1314.5	1325.2
10°	1241.0	1234.0	1228.3	1223.2	1228.3	1234.0	1241.0	1243.5	1254.2	1259.3	1270.0
12.5°	1163.6	1157.5	1149.9	1151.4	1149.9	1157.5	1163.6	1174.6	1188.4	1199.0	1215.9
15°	1053.7	1044.3	1029.0	1030.9	1029.0	1044.3	1053.7	1061.9	1075.9	1099.9	1111.3
17.5°	960.8	960.8	953.9	955.5	953.9	960.8	960.8	972.0	979.1	994.4	1011.9
20°	912.7	908.2	908.9	907.0	908.9	908.2	912.7	926.0	933.6	944.3	963.3
22.5°	879.2	873.9	869.4	865.5	869.4	873.9	879.2	883.0	893.1	903.3	918.8
25°	822.8	819.0	813.4	812.1	813.4	819.0	822.8	828.5	833.6	846.9	856.3
27.5°	773.2	772.5	770.2	767.3	770.2	772.5	773.2	778.3	784.9	793.4	805.4
30°	744.4	743.1	741.9	740.0	741.9	743.1	744.4	749.5	754.6	761.5	771.0
32.5°	718.7	717.9	716.6	716.8	716.6	717.9	718.7	721.1	724.2	733.2	740.6
35°	681.8	681.2	679.9	679.3	679.9	681.2	681.8	684.4	686.3	688.8	695.1
37.5°	647.5	649.0	648.3	648.2	648.3	649.0	647.5	648.1	646.0	650.5	654.9
40°	623.6	624.2	625.5	624.9	625.5	624.2	623.6	624.2	624.2	624.2	628.0
42.5°	603.9	604.0	605.8	603.6	605.8	604.0	603.9	601.5	598.5	599.0	600.2
45°	568.6	572.4	571.8	571.8	571.8	572.4	568.6	564.2	563.6	561.0	561.0
47.5°	530.0	533.3	534.2	534.1	534.2	533.3	530.0	528.4	525.5	522.9	522.7
50°	504.7	503.4	505.3	504.7	505.3	503.4	504.7	501.5	497.1	497.1	495.9
52.5°	473.9	474.1	474.0	473.3	474.0	474.1	473.9	472.2	470.3	468.3	467.5
55°	426.3	426.9	425.6	426.3	425.6	426.9	426.3	425.6	425.6	424.4	425.6
57.5°	374.7	371.6	372.9	371.4	372.9	371.6	374.7	377.5	378.5	378.7	380.6
60°	337.8	332.7	331.4	328.9	331.4	332.7	337.8	344.0	346.6	347.8	349.7
62.5°	296.3	292.7	288.4	290.4	288.4	292.7	296.3	303.1	308.6	313.0	317.3
65°	241.0	238.4	236.5	239.1	236.5	238.4	241.0	246.1	251.1	261.2	270.7
67.5°	199.5	198.1	198.1	196.9	198.1	198.1	199.5	202.0	205.2	210.7	219.6
70°	177.8	175.9	175.9	174.6	175.9	175.9	177.8	177.8	180.9	183.4	189.7
72.5°	155.4	153.6	154.1	153.3	154.1	153.6	155.4	156.0	159.1	160.2	163.0
75°	115.1	111.9	111.9	112.6	111.9	111.9	115.1	118.9	122.1	127.8	129.0
77.5°	85.9	85.2	86.1	85.0	86.1	85.2	85.9	85.9	86.5	89.2	91.3
80°	70.2	69.6	68.9	70.8	68.9	69.6	70.2	70.2	70.8	71.5	72.1
82.5°	54.5	54.4	54.3	56.6	54.3	54.4	54.5	55.5	55.7	55.3	55.9
85°	32.9	31.6	32.9	31.6	32.9	31.6	32.9	32.2	32.9	32.2	32.9
87.5°	15.5	15.2	14.5	15.0	14.5	15.2	15.5	14.3	14.3	15.1	14.4
90°	19.3	20.3	19.3	19.3	19.3	20.3	19.3	18.4	18.4	17.5	16.6
92.5°	79.0	74.0	70.9	70.9	70.9	74.0	79.0	89.8	108.3	136.0	180.8
95°	281.7	253.2	236.5	224.6	236.5	253.2	281.7	326.8	416.1	539.4	682.1
97.5°	702.5	647.1	619.5	600.4	619.5	647.1	702.5	768.7	864.7	954.7	1007.8
100°	935.3	879.1	851.5	844.1	851.5	879.1	935.3	1015.3	1083.5	1128.5	1110.2
102.5°	1131.9	1091.2	1062.1	1056.2	1062.1	1091.2	1131.9	1181.0	1209.3	1196.3	1105.0
105°	1321.0	1313.6	1300.7	1295.1	1300.7	1313.6	1321.0	1319.1	1281.4	1190.3	1030.9
107.5°	1351.3	1372.3	1381.5	1383.9	1381.5	1372.3	1351.3	1305.8	1223.8	1095.4	925.8
110°	1321.8	1360.5	1377.1	1385.4	1377.1	1360.5	1321.8	1256.5	1155.2	1021.8	862.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1258.5	1305.3	1328.5	1342.0	1328.5	1305.3	1258.5	1184.3	1083.1	957.0	816.1
115°	1151.6	1206.8	1236.3	1243.6	1236.3	1206.8	1151.6	1078.9	990.5	882.8	769.5
117.5°	1062.1	1108.5	1138.3	1144.0	1138.3	1108.5	1062.1	1000.1	925.1	840.4	746.7
120°	1013.5	1054.0	1077.9	1088.1	1077.9	1054.0	1013.5	961.0	895.6	822.0	736.4
122.5°	978.9	1013.5	1033.7	1043.9	1033.7	1013.5	978.9	934.5	877.3	810.2	727.5
125°	942.6	969.3	986.8	992.3	986.8	969.3	942.6	905.8	855.2	791.6	712.5
127.5°	918.1	941.9	956.6	962.1	956.6	941.9	918.1	881.1	833.1	769.8	694.0
130°	901.2	924.2	938.9	944.4	938.9	924.2	901.2	863.5	814.7	752.1	679.4
132.5°	879.1	905.1	919.0	924.6	919.0	905.1	879.1	842.1	793.3	732.2	663.8
135°	841.4	867.1	881.9	887.4	881.9	867.1	841.4	804.5	758.5	702.3	642.5
137.5°	797.2	822.6	834.7	841.4	834.7	822.6	797.2	762.7	721.1	673.8	623.2
140°	767.7	788.0	800.8	808.2	800.8	788.0	767.7	735.5	696.8	655.4	612.1
142.5°	737.5	756.3	767.7	772.9	767.7	756.3	737.5	709.0	675.5	639.9	601.8
145°	695.0	710.7	719.9	724.5	719.9	710.7	695.0	672.0	646.2	618.6	587.3
147.5°	659.5	672.9	679.9	681.5	679.9	672.9	659.5	642.5	622.3	600.2	575.4
150°	638.8	650.8	656.3	657.3	656.3	650.8	638.8	624.1	607.5	589.1	568.0
152.5°	621.2	630.9	634.2	635.2	634.2	630.9	621.2	608.6	595.0	578.1	559.8
155°	596.5	603.9	606.7	606.7	606.7	603.9	596.5	587.3	576.2	562.4	547.7
157.5°	574.4	580.0	581.6	581.6	581.6	580.0	574.4	567.4	558.6	547.0	534.6
160°	559.7	565.2	566.1	566.1	566.1	565.2	559.7	554.1	546.8	536.6	526.6
162.5°	545.7	551.2	552.2	551.4	552.2	551.2	545.7	541.6	535.0	527.1	518.4
165°	527.4	531.2	530.2	529.3	530.2	531.2	527.4	523.8	519.2	512.7	507.2
167.5°	510.3	512.7	512.5	511.8	512.5	512.7	510.3	508.5	505.7	500.6	496.4
170°	500.7	501.7	500.7	500.7	500.7	501.7	500.7	498.9	496.1	492.5	489.7
172.5°	491.2	492.1	491.2	489.7	491.2	492.1	491.2	490.0	488.1	485.8	483.8
175°	478.6	480.5	478.6	476.8	478.6	480.5	478.6	478.6	478.6	476.8	475.9
177.5°	471.5	472.2	470.7	469.3	470.7	472.2	471.5	472.2	471.5	471.5	470.7
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1501.5	1505.1	1513.1	1522.3	1529.9	1536.4	1541.5	1548.6	1555.1	1564.2	1572.9
5°	1410.5	1419.3	1431.9	1447.2	1466.1	1478.8	1494.5	1508.5	1528.8	1549.0	1568.6
7.5°	1330.5	1340.2	1358.8	1379.8	1402.3	1423.1	1441.9	1466.3	1493.2	1522.7	1555.5
10°	1278.9	1289.7	1311.8	1335.8	1362.4	1382.6	1407.9	1437.0	1467.4	1503.4	1543.9
12.5°	1232.3	1242.6	1269.2	1293.8	1321.4	1343.6	1373.0	1402.6	1443.1	1482.2	1528.2
15°	1141.6	1168.9	1199.2	1228.3	1261.2	1288.4	1323.8	1354.2	1392.7	1447.8	1500.2
17.5°	1040.9	1069.9	1107.6	1152.5	1196.7	1230.3	1266.2	1303.9	1349.9	1406.0	1466.6
20°	982.2	1005.7	1047.4	1097.3	1148.6	1195.4	1228.3	1270.0	1317.5	1378.2	1440.8
22.5°	938.3	958.1	990.7	1040.7	1096.0	1150.3	1192.4	1233.6	1286.1	1346.8	1415.0
25°	872.2	893.7	922.2	956.3	1019.5	1077.1	1132.2	1179.6	1235.2	1295.9	1371.8
27.5°	817.3	836.0	862.1	897.6	940.2	1003.6	1070.3	1124.4	1181.5	1246.7	1322.6
30°	784.9	800.1	821.6	857.6	898.1	955.1	1022.7	1086.0	1143.5	1211.2	1290.3
32.5°	751.0	767.2	788.2	816.7	860.2	908.0	975.7	1045.0	1106.1	1175.3	1252.8
35°	705.8	718.5	737.4	766.6	805.8	847.6	907.6	979.1	1043.6	1117.6	1191.6
37.5°	660.2	675.1	690.1	716.0	748.1	793.0	842.2	915.2	986.7	1054.2	1126.5
40°	634.4	643.3	659.7	680.6	714.7	754.6	800.7	872.2	943.6	1010.7	1083.5
42.5°	605.5	615.4	629.3	650.2	680.8	719.6	764.8	826.6	901.2	966.2	1032.4
45°	565.5	571.2	585.0	602.8	628.0	667.3	709.0	764.1	834.2	896.2	954.4
47.5°	525.0	529.9	538.6	554.8	583.1	614.7	653.7	703.1	764.7	826.6	875.8
50°	497.1	501.5	509.8	525.0	550.2	581.2	619.8	664.1	719.1	778.6	819.7
52.5°	469.3	471.7	479.4	496.6	517.8	548.3	582.9	623.6	675.1	724.5	766.0
55°	425.0	430.7	435.8	448.5	468.7	497.7	528.8	567.4	607.2	649.0	684.4
57.5°	378.8	385.1	392.4	403.5	419.6	446.6	474.5	505.7	539.8	574.4	604.1
60°	348.5	354.2	360.5	373.2	387.7	409.2	439.6	466.8	492.7	524.3	554.1
62.5°	318.6	324.3	331.7	341.8	355.8	376.4	401.6	425.3	452.3	479.8	501.9
65°	274.5	278.9	284.6	294.1	307.4	325.7	346.6	365.0	389.0	409.2	429.4
67.5°	226.1	234.6	242.0	249.7	260.9	278.1	293.1	310.7	327.0	342.1	360.5
70°	194.2	203.7	210.6	218.8	229.6	244.2	258.6	270.7	284.0	298.5	315.0
72.5°	167.4	174.8	180.2	189.0	198.8	212.2	225.8	235.8	246.5	256.5	272.5
75°	132.2	135.4	139.2	146.1	155.0	165.1	175.9	184.7	191.0	199.9	211.3
77.5°	95.0	101.1	103.6	108.5	114.9	121.2	128.3	135.7	141.8	145.0	153.7
80°	72.7	75.3	77.8	84.8	88.6	94.9	99.9	106.9	109.4	112.6	120.8
82.5°	56.6	58.1	59.6	61.5	63.8	70.1	75.2	79.5	82.1	83.3	89.4
85°	32.9	33.5	34.1	34.8	35.4	35.4	37.9	41.1	45.6	45.6	47.5
87.5°	14.3	15.0	14.6	13.7	14.7	13.6	14.1	13.9	15.3	16.2	17.3
90°	15.7	16.6	14.7	12.9	12.9	7.4	7.4	6.4	5.5	2.8	1.0
92.5°	243.2	292.0	255.6	185.9	114.5	67.7	48.6	35.2	23.9	15.3	10.5
95°	771.4	750.2	566.1	346.1	195.1	115.1	76.4	54.3	42.4	33.1	30.3
97.5°	969.2	790.2	529.8	311.2	186.5	124.8	92.4	73.4	62.4	54.5	54.5
100°	975.7	740.1	480.5	292.7	188.7	134.4	105.0	87.5	76.4	69.9	69.9
102.5°	920.5	677.5	447.3	287.6	196.1	146.9	118.9	102.2	91.9	86.2	84.7
105°	820.1	603.9	418.8	289.9	213.6	169.4	142.7	126.1	115.1	110.4	107.7
107.5°	739.2	562.6	413.7	303.6	234.0	193.5	167.2	151.3	139.6	134.9	133.1
110°	698.7	548.7	415.2	313.9	249.5	209.0	184.1	167.5	156.5	151.9	150.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	675.8	542.0	419.5	325.0	264.2	225.1	200.3	183.7	173.4	168.1	166.3
115°	654.5	538.5	428.0	342.5	287.2	250.4	225.5	208.0	198.8	192.4	189.6
117.5°	644.9	537.6	437.0	360.3	309.5	274.5	248.7	232.3	222.2	216.5	213.9
120°	639.8	537.6	443.7	372.8	325.0	289.9	264.2	248.5	238.4	232.0	230.1
122.5°	633.9	536.9	450.4	384.6	339.7	304.7	279.6	262.5	253.2	246.7	244.9
125°	624.1	535.8	460.3	402.3	359.9	326.8	301.0	283.5	273.4	267.8	264.2
127.5°	611.0	533.7	468.2	417.6	378.7	346.7	320.7	302.5	290.9	284.2	281.3
130°	602.9	533.0	474.0	427.1	391.3	359.9	333.2	315.8	301.9	294.5	290.9
132.5°	595.6	532.3	479.2	436.7	401.6	370.3	345.0	326.1	313.0	303.4	300.5
135°	584.6	531.2	487.0	449.2	416.1	385.7	361.8	342.5	326.8	317.6	313.9
137.5°	575.0	530.9	491.5	458.0	427.1	398.8	376.0	355.8	341.0	330.8	327.3
140°	569.8	530.2	495.3	463.9	434.5	406.9	384.8	365.4	349.8	339.7	336.9
142.5°	565.4	530.2	498.2	468.3	441.1	414.2	392.8	374.3	359.3	350.0	347.2
145°	557.9	528.4	499.9	473.2	448.3	424.4	404.1	386.6	373.8	364.6	361.8
147.5°	551.0	525.1	500.7	477.4	455.7	433.2	414.9	400.4	387.1	379.1	378.1
150°	545.9	522.8	500.7	479.6	459.3	439.1	421.6	407.8	396.7	389.4	388.5
152.5°	540.0	519.2	499.3	481.1	462.3	444.3	428.3	415.9	405.6	398.2	398.0
155°	531.2	513.7	497.1	482.4	466.7	451.1	437.3	427.1	417.9	412.4	411.5
157.5°	522.1	507.9	494.7	482.4	469.8	456.6	445.7	436.9	429.7	424.5	424.5
160°	515.5	503.5	492.5	482.4	471.3	460.3	450.1	442.8	436.3	432.6	432.6
162.5°	509.6	499.1	490.3	482.4	472.8	462.5	454.6	447.9	442.2	439.3	440.0
165°	499.9	492.5	486.0	480.5	473.2	464.9	459.3	454.7	450.1	448.3	448.3
167.5°	491.0	485.8	481.6	478.3	472.9	466.9	462.6	460.1	456.6	455.7	456.6
170°	485.1	481.4	478.6	476.8	472.2	467.6	464.9	463.0	460.3	459.3	460.3
172.5°	480.0	477.0	475.7	475.4	471.5	468.3	466.4	465.2	463.2	463.0	463.9
175°	474.0	472.2	472.2	473.2	470.4	468.6	468.6	467.6	466.7	466.7	467.6
177.5°	470.0	469.3	469.3	470.7	469.3	468.6	468.6	468.6	467.8	468.6	469.3
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1579.5	1584.0	1589.0	1598.7	1606.8	1610.3	1617.4	1622.5	1621.0	1628.0	1640.1
5°	1585.6	1602.7	1622.3	1642.6	1665.3	1684.3	1699.5	1714.7	1726.7	1741.2	1762.8
7.5°	1584.6	1615.0	1648.0	1684.3	1721.6	1753.9	1783.8	1814.1	1841.0	1870.5	1909.1
10°	1580.6	1621.0	1662.2	1709.6	1757.1	1802.0	1842.5	1880.4	1916.4	1955.0	2003.7
12.5°	1576.0	1622.5	1672.3	1729.3	1788.4	1842.5	1890.0	1944.6	1989.8	2039.6	2095.8
15°	1555.9	1618.5	1686.2	1760.2	1831.1	1903.8	1968.9	2036.0	2098.6	2158.1	2228.9
17.5°	1532.9	1605.1	1685.0	1772.3	1857.5	1945.9	2023.2	2107.7	2171.7	2251.5	2317.3
20°	1514.2	1592.0	1677.4	1775.4	1872.2	1970.2	2055.6	2141.6	2213.7	2294.0	2377.5
22.5°	1491.4	1576.8	1669.3	1770.8	1872.2	1979.3	2073.8	2159.3	2248.6	2339.1	2425.1
25°	1454.7	1543.3	1641.3	1752.6	1869.0	1978.4	2079.6	2185.9	2282.0	2380.0	2457.2
27.5°	1409.7	1502.7	1606.0	1720.9	1840.3	1952.3	2071.6	2184.8	2281.5	2375.8	2443.2
30°	1373.7	1471.8	1571.1	1687.5	1811.4	1931.6	2059.4	2172.6	2274.4	2359.2	2397.1
32.5°	1336.8	1429.8	1532.2	1650.0	1777.0	1906.3	2033.1	2148.8	2243.1	2293.9	2294.9
35°	1272.6	1359.9	1466.1	1581.8	1712.1	1852.5	1980.9	2094.8	2152.4	2156.8	2094.8
37.5°	1202.5	1282.5	1382.8	1498.7	1641.4	1781.1	1912.2	1988.1	2007.4	1943.0	1828.4
40°	1152.4	1226.4	1323.2	1442.1	1583.7	1728.0	1847.5	1903.1	1882.9	1778.5	1650.7
42.5°	1099.8	1168.7	1261.9	1379.3	1521.5	1667.2	1769.1	1798.9	1745.3	1624.8	1475.2
45°	1013.9	1077.1	1169.5	1287.8	1424.3	1561.0	1638.2	1622.9	1533.7	1390.8	1223.2
47.5°	924.5	985.6	1068.7	1178.1	1318.0	1435.8	1488.1	1442.3	1315.4	1158.2	1021.8
50°	865.2	927.9	1004.4	1108.7	1236.5	1350.4	1383.9	1314.3	1173.2	1022.1	896.8
52.5°	807.1	860.5	935.6	1036.4	1158.6	1254.7	1272.6	1192.4	1046.8	911.2	800.2
55°	718.5	767.2	830.4	925.3	1030.9	1112.5	1103.0	1000.0	867.8	752.0	664.7
57.5°	632.9	669.6	728.0	816.9	909.7	964.4	929.8	841.9	718.7	623.9	550.2
60°	576.2	610.4	664.7	742.5	824.1	855.1	826.0	730.6	633.1	546.4	484.5
62.5°	522.5	552.7	599.4	671.7	737.6	756.0	724.8	641.4	553.7	479.7	428.3
65°	444.7	472.5	512.3	563.6	609.1	617.9	597.7	512.3	445.9	383.9	348.5
67.5°	373.9	392.1	423.3	467.5	491.7	496.9	457.8	404.2	345.6	307.5	280.8
70°	326.4	339.0	368.1	392.1	411.8	412.4	376.4	333.4	288.4	257.5	237.8
72.5°	280.4	292.5	314.5	330.9	345.9	341.0	308.0	274.1	237.8	214.4	199.9
75°	216.3	227.0	238.4	246.1	246.1	239.7	215.7	190.4	169.5	155.6	151.1
77.5°	157.2	166.1	169.9	168.7	166.4	156.6	141.4	124.8	117.4	110.8	107.5
80°	123.3	127.1	128.4	125.2	121.4	110.0	99.9	93.0	86.0	83.5	82.2
82.5°	91.4	94.7	91.4	92.4	84.0	74.6	69.1	66.7	63.8	62.7	61.5
85°	48.7	48.1	46.8	43.6	37.9	36.7	36.0	35.4	34.1	34.8	33.5
87.5°	17.3	16.3	14.4	14.1	14.1	14.2	14.7	15.1	15.4	14.7	16.0
90°	2.8	5.5	6.4	7.4	7.4	12.9	12.9	14.7	16.6	15.7	16.6
92.5°	15.3	23.9	35.2	48.6	67.7	114.5	185.9	255.6	292.0	243.2	180.8
95°	33.1	42.4	54.3	76.4	115.1	195.1	346.1	566.1	750.2	771.4	682.1
97.5°	54.5	62.4	73.4	92.4	124.8	186.5	311.2	529.8	790.2	969.2	1007.8
100°	69.9	76.4	87.5	105.0	134.4	188.7	292.7	480.5	740.1	975.7	1110.2
102.5°	86.2	91.9	102.2	118.9	146.9	196.1	287.6	447.3	677.5	920.5	1105.0
105°	110.4	115.1	126.1	142.7	169.4	213.6	289.9	418.8	603.9	820.1	1030.9
107.5°	134.9	139.6	151.3	167.2	193.5	234.0	303.6	413.7	562.6	739.2	925.8
110°	151.9	156.5	167.5	184.1	209.0	249.5	313.9	415.2	548.7	698.7	862.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.1	173.4	183.7	200.3	225.1	264.2	325.0	419.5	542.0	675.8	816.1
115°	192.4	198.8	208.0	225.5	250.4	287.2	342.5	428.0	538.5	654.5	769.5
117.5°	216.5	222.2	232.3	248.7	274.5	309.5	360.3	437.0	537.6	644.9	746.7
120°	232.0	238.4	248.5	264.2	289.9	325.0	372.8	443.7	537.6	639.8	736.4
122.5°	246.7	253.2	262.5	279.6	304.7	339.7	384.6	450.4	536.9	633.9	727.5
125°	267.8	273.4	283.5	301.0	326.8	359.9	402.3	460.3	535.8	624.1	712.5
127.5°	284.2	290.9	302.5	320.7	346.7	378.7	417.6	468.2	533.7	611.0	694.0
130°	294.5	301.9	315.8	333.2	359.9	391.3	427.1	474.0	533.0	602.9	679.4
132.5°	303.4	313.0	326.1	345.0	370.3	401.6	436.7	479.2	532.3	595.6	663.8
135°	317.6	326.8	342.5	361.8	385.7	416.1	449.2	487.0	531.2	584.6	642.5
137.5°	330.8	341.0	355.8	376.0	398.8	427.1	458.0	491.5	530.9	575.0	623.2
140°	339.7	349.8	365.4	384.8	406.9	434.5	463.9	495.3	530.2	569.8	612.1
142.5°	350.0	359.3	374.3	392.8	414.2	441.1	468.3	498.2	530.2	565.4	601.8
145°	364.6	373.8	386.6	404.1	424.4	448.3	473.2	499.9	528.4	557.9	587.3
147.5°	379.1	387.1	400.4	414.9	433.2	455.7	477.4	500.7	525.1	551.0	575.4
150°	389.4	396.7	407.8	421.6	439.1	459.3	479.6	500.7	522.8	545.9	568.0
152.5°	398.2	405.6	415.9	428.3	444.3	462.3	481.1	499.3	519.2	540.0	559.8
155°	412.4	417.9	427.1	437.3	451.1	466.7	482.4	497.1	513.7	531.2	547.7
157.5°	424.5	429.7	436.9	445.7	456.6	469.8	482.4	494.7	507.9	522.1	534.6
160°	432.6	436.3	442.8	450.1	460.3	471.3	482.4	492.5	503.5	515.5	526.6
162.5°	439.3	442.2	447.9	454.6	462.5	472.8	482.4	490.3	499.1	509.6	518.4
165°	448.3	450.1	454.7	459.3	464.9	473.2	480.5	486.0	492.5	499.9	507.2
167.5°	455.7	456.6	460.1	462.6	466.9	472.9	478.3	481.6	485.8	491.0	496.4
170°	459.3	460.3	463.0	464.9	467.6	472.2	476.8	478.6	481.4	485.1	489.7
172.5°	463.0	463.2	465.2	466.4	468.3	471.5	475.4	475.7	477.0	480.0	483.8
175°	466.7	466.7	467.6	468.6	468.6	470.4	473.2	472.2	472.2	474.0	475.9
177.5°	468.6	467.8	468.6	468.6	468.6	469.3	470.7	469.3	469.3	470.0	470.7
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9	1569.9
2.5°	1646.7	1648.8	1650.3	1655.3	1655.8	1660.4	1655.8
5°	1783.0	1791.8	1805.8	1819.6	1820.9	1829.8	1813.9
7.5°	1935.8	1956.3	1969.0	1991.5	2000.4	2006.0	1996.9
10°	2041.1	2060.0	2093.5	2110.0	2126.5	2128.9	2121.4
12.5°	2142.8	2172.9	2199.3	2230.4	2229.7	2251.9	2243.8
15°	2278.2	2309.2	2345.9	2380.7	2393.3	2393.3	2403.5
17.5°	2374.9	2431.7	2469.6	2497.0	2526.7	2532.0	2528.4
20°	2440.2	2501.5	2542.0	2577.4	2597.6	2603.3	2603.3
22.5°	2488.7	2540.9	2580.5	2612.3	2629.0	2635.7	2633.7
25°	2522.4	2567.2	2591.3	2600.8	2605.2	2604.0	2591.9
27.5°	2476.3	2474.3	2459.1	2430.0	2408.2	2394.8	2379.6
30°	2388.3	2355.4	2317.5	2275.7	2221.9	2180.8	2168.1
32.5°	2257.2	2183.3	2119.1	2049.5	1991.7	1950.6	1933.4
35°	2003.7	1886.7	1791.2	1707.7	1647.0	1609.1	1596.4
37.5°	1702.9	1589.7	1471.4	1390.4	1340.1	1301.8	1287.5
40°	1511.6	1388.3	1285.2	1209.3	1157.5	1120.1	1119.5
42.5°	1337.0	1219.3	1122.3	1067.6	1011.7	987.1	986.9
45°	1094.8	1000.6	918.4	875.4	841.9	821.6	815.9
47.5°	906.5	828.5	773.8	739.5	712.2	699.3	690.9
50°	800.7	732.5	688.8	659.0	643.9	627.4	626.1
52.5°	712.6	657.5	623.5	599.4	580.1	570.2	570.5
55°	599.0	555.3	531.3	512.9	497.7	490.2	487.0
57.5°	504.6	471.8	454.4	437.5	431.1	425.2	423.5
60°	445.9	423.7	407.3	394.0	384.5	382.6	382.0
62.5°	397.4	374.1	362.8	352.5	345.6	342.7	341.5
65°	327.6	310.5	300.4	292.2	289.7	285.3	284.6
67.5°	264.1	253.9	247.2	241.5	238.1	237.8	237.8
70°	225.1	219.4	213.8	210.6	208.7	207.5	207.5
72.5°	191.8	187.6	182.9	181.3	180.9	179.6	179.1
75°	146.1	141.6	142.3	139.2	136.7	133.5	131.6
77.5°	103.6	100.4	99.8	99.4	97.3	96.9	97.9
80°	80.3	77.2	76.5	77.2	76.5	74.6	74.6
82.5°	61.1	58.5	57.8	57.4	56.8	57.4	56.4
85°	32.9	31.6	31.6	31.6	32.9	32.2	31.6
87.5°	15.1	14.8	15.3	15.0	15.2	14.5	15.0
90°	17.5	18.4	18.4	19.3	20.3	19.3	19.3
92.5°	136.0	108.3	89.8	79.0	74.0	70.9	70.9
95°	539.4	416.1	326.8	281.7	253.2	236.5	224.6
97.5°	954.7	864.7	768.7	702.5	647.1	619.5	600.4
100°	1128.5	1083.5	1015.3	935.3	879.1	851.5	844.1
102.5°	1196.3	1209.3	1181.0	1131.9	1091.2	1062.1	1056.2
105°	1190.3	1281.4	1319.1	1321.0	1313.6	1300.7	1295.1
107.5°	1095.4	1223.8	1305.8	1351.3	1372.3	1381.5	1383.9
110°	1021.8	1155.2	1256.5	1321.8	1360.5	1377.1	1385.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	957.0	1083.1	1184.3	1258.5	1305.3	1328.5	1342.0
115°	882.8	990.5	1078.9	1151.6	1206.8	1236.3	1243.6
117.5°	840.4	925.1	1000.1	1062.1	1108.5	1138.3	1144.0
120°	822.0	895.6	961.0	1013.5	1054.0	1077.9	1088.1
122.5°	810.2	877.3	934.5	978.9	1013.5	1033.7	1043.9
125°	791.6	855.2	905.8	942.6	969.3	986.8	992.3
127.5°	769.8	833.1	881.1	918.1	941.9	956.6	962.1
130°	752.1	814.7	863.5	901.2	924.2	938.9	944.4
132.5°	732.2	793.3	842.1	879.1	905.1	919.0	924.6
135°	702.3	758.5	804.5	841.4	867.1	881.9	887.4
137.5°	673.8	721.1	762.7	797.2	822.6	834.7	841.4
140°	655.4	696.8	735.5	767.7	788.0	800.8	808.2
142.5°	639.9	675.5	709.0	737.5	756.3	767.7	772.9
145°	618.6	646.2	672.0	695.0	710.7	719.9	724.5
147.5°	600.2	622.3	642.5	659.5	672.9	679.9	681.5
150°	589.1	607.5	624.1	638.8	650.8	656.3	657.3
152.5°	578.1	595.0	608.6	621.2	630.9	634.2	635.2
155°	562.4	576.2	587.3	596.5	603.9	606.7	606.7
157.5°	547.0	558.6	567.4	574.4	580.0	581.6	581.6
160°	536.6	546.8	554.1	559.7	565.2	566.1	566.1
162.5°	527.1	535.0	541.6	545.7	551.2	552.2	551.4
165°	512.7	519.2	523.8	527.4	531.2	530.2	529.3
167.5°	500.6	505.7	508.5	510.3	512.7	512.5	511.8
170°	492.5	496.1	498.9	500.7	501.7	500.7	500.7
172.5°	485.8	488.1	490.0	491.2	492.1	491.2	489.7
175°	476.8	478.6	478.6	478.6	480.5	478.6	476.8
177.5°	471.5	471.5	472.2	471.5	472.2	470.7	469.3
180°	468.6	468.6	468.6	468.6	468.6	468.6	468.6

(END OF REPORT)