

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: P332987-935

Luminaire Tested: **SA4XXRDIP-C1195D365U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332987-935  
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-C1195D365U935-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5440.2 lumens  
Efficiency: N/A  
Efficacy: 109.2 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: Semi-Direct

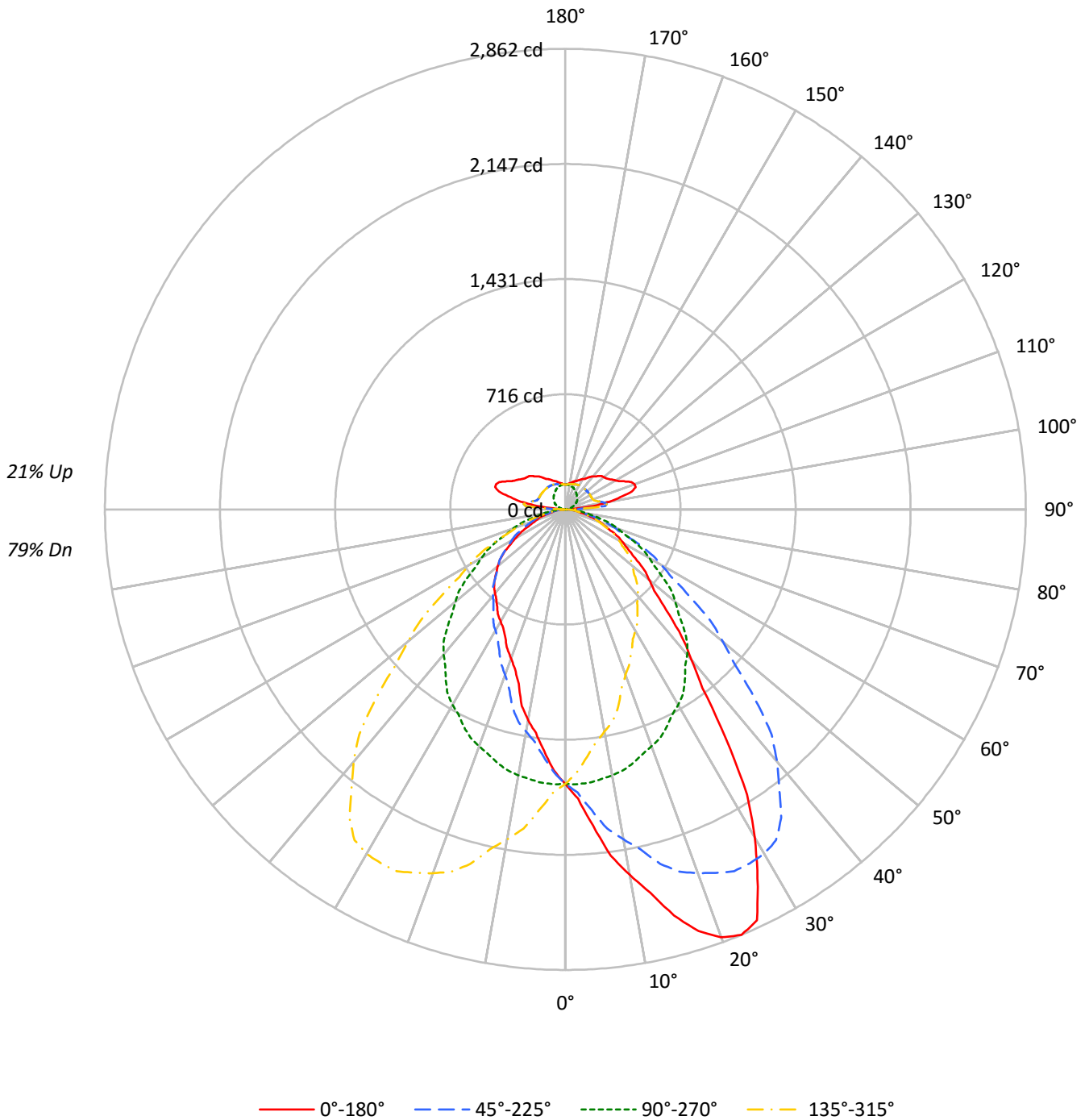
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	79
1	105	101	97	94	100	97	93	90	89	86	84	81	79	77	75	73	72	68
2	96	89	83	78	92	85	80	75	79	74	70	72	69	66	67	64	61	58
3	88	79	72	66	84	76	69	64	70	65	60	65	60	57	60	56	53	50
4	81	70	62	56	77	68	60	55	63	57	52	58	53	49	54	50	46	44
5	75	63	55	49	71	61	53	48	57	50	45	52	47	43	49	44	41	38
6	69	57	49	43	66	55	48	42	51	45	40	48	42	38	44	40	36	34
7	64	52	44	38	62	50	43	37	47	40	36	44	38	34	41	36	32	30
8	60	47	40	34	57	46	38	33	43	37	32	40	35	31	37	33	29	27
9	56	44	36	31	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	53	40	33	28	50	39	32	27	37	30	26	34	29	25	32	28	24	22

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

	0°	90°	180°	270°
0°	13774	13774	13774	13774
5°	15977	13816	12211	13816
10°	18901	13755	10899	13755
15°	21833	13628	9365	13628
20°	24308	13454	8469	13454
25°	25093	13281	7863	13281
30°	21967	13073	7498	13073
35°	17100	12764	7276	12764
40°	12823	12410	7158	12410
45°	10123	11843	7096	11843
50°	8547	11189	6889	11189
55°	7450	10469	6521	10469
60°	6704	9723	5772	9723
65°	5910	8915	4963	8915
70°	5323	8080	4480	8080
75°	4460	7162	3815	7162
80°	3770	6104	3580	6104
85°	3186	4780	3186	4780



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	3.0
10°-20°	498.7	9.2
20°-30°	780.0	14.3
30°-40°	867.1	15.9
40°-50°	769.3	14.1
50°-60°	599.5	11.0
60°-70°	392.5	7.2
70°-80°	193.0	3.5
80°-90°	48.5	0.9
90°-100°	111.9	2.1
100°-110°	232.8	4.3
110°-120°	208.5	3.8
120°-130°	175.4	3.2
130°-140°	146.3	2.7
140°-150°	111.7	2.1
150°-160°	78.5	1.4
160°-170°	46.2	0.8
170°-180°	15.0	0.3
0°-30°	1444.0	26.5
0°-40°	2311.0	42.5
0°-60°	3679.8	67.6
0°-90°	4313.7	79.3
90°-120°	553.3	10.2
90°-150°	986.7	18.1
90°-180°	1126.0	20.7
0°-180°	5440.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1972	1705	1507	1705	1972	199
15°	2612	1631	1120	1631	2612	743
25°	2817	1491	883	1491	2817	1250
35°	1735	1295	738	1295	1735	1088
45°	887	1037	622	1037	887	702
55°	529	744	463	744	529	481
65°	309	467	260	467	309	311
75°	143	230	122	230	143	157
85°	34	52	34	52	34	39
90°	6	0	6	0	6	7
95°	74	10	74	10	74	115
105°	428	36	428	36	428	423
115°	411	63	411	63	411	408
125°	328	87	328	87	328	298
135°	293	104	293	104	293	226
145°	239	120	239	120	239	152
155°	200	136	200	136	200	94
165°	175	148	175	148	175	50
175°	158	154	158	154	158	15
180°	155	155	155	155	155	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1799.7	1804.7	1799.7	1799.1	1793.6	1792.0	1789.8	1782.6	1769.4	1761.8	1763.4
5°	1971.5	1988.7	1979.1	1977.7	1962.6	1947.5	1937.9	1915.9	1892.5	1876.7	1863.6
7.5°	2170.3	2180.2	2174.2	2164.6	2140.1	2126.2	2103.9	2074.9	2033.0	2001.0	1971.7
10°	2305.7	2313.9	2311.2	2293.3	2275.4	2238.9	2218.4	2177.8	2124.9	2082.9	2043.8
12.5°	2438.7	2447.6	2423.4	2424.1	2390.3	2361.6	2328.9	2277.9	2216.7	2162.7	2113.6
15°	2612.3	2601.3	2601.3	2587.5	2549.7	2509.8	2476.1	2422.5	2345.5	2280.9	2212.9
17.5°	2748.1	2751.9	2746.2	2713.9	2684.2	2642.9	2581.2	2518.6	2447.1	2360.3	2290.8
20°	2829.5	2829.5	2823.3	2801.3	2762.8	2718.8	2652.1	2584.0	2493.3	2406.0	2327.6
22.5°	2862.5	2864.6	2857.4	2839.2	2804.6	2761.7	2704.9	2635.8	2542.3	2443.9	2346.9
25°	2817.1	2830.2	2831.5	2826.7	2816.4	2790.2	2741.5	2670.6	2586.8	2480.3	2375.8
27.5°	2586.4	2602.9	2617.4	2641.1	2672.7	2689.2	2691.4	2655.4	2582.2	2479.7	2374.6
30°	2356.5	2370.2	2414.9	2473.4	2518.8	2560.0	2595.7	2605.4	2564.1	2472.0	2361.3
32.5°	2101.4	2120.0	2164.7	2227.6	2303.2	2373.0	2453.3	2494.2	2493.2	2437.9	2335.5
35°	1735.1	1748.9	1790.1	1856.1	1946.8	2050.6	2177.8	2276.7	2344.2	2339.3	2276.7
37.5°	1399.3	1414.9	1456.6	1511.2	1599.2	1727.8	1850.8	1987.2	2111.8	2181.8	2160.9
40°	1216.8	1217.5	1258.0	1314.4	1396.9	1508.9	1643.0	1794.2	1933.0	2046.5	2068.5
42.5°	1072.6	1072.8	1099.6	1160.4	1219.8	1325.3	1453.2	1603.4	1765.9	1896.9	1955.2
45°	886.7	892.9	915.0	951.4	998.2	1087.5	1189.9	1329.5	1511.7	1667.0	1763.9
47.5°	751.0	760.0	774.0	803.7	841.0	900.5	985.2	1110.6	1258.8	1429.7	1567.6
50°	680.5	681.9	699.8	716.3	748.6	796.1	870.3	974.7	1110.9	1275.1	1428.5
52.5°	620.1	619.7	630.5	651.4	677.7	714.6	774.6	869.7	990.4	1137.7	1296.0
55°	529.3	532.8	541.0	557.5	577.5	603.6	651.0	722.5	817.3	943.1	1086.8
57.5°	460.3	462.1	468.6	475.5	493.9	512.8	548.5	598.1	678.1	781.1	915.0
60°	415.2	415.9	417.9	428.3	442.7	460.5	484.7	526.6	593.9	688.1	794.0
62.5°	371.2	372.5	375.7	383.1	394.3	406.7	431.9	465.5	521.3	601.8	697.2
65°	309.4	310.0	314.9	317.6	326.5	337.5	356.1	378.8	417.2	484.7	556.8
67.5°	258.5	258.5	258.7	262.4	268.6	276.0	287.1	305.2	334.2	375.7	439.3
70°	225.5	225.5	226.9	228.9	232.4	238.5	244.7	258.5	279.8	313.5	362.3
72.5°	194.7	195.2	196.6	197.0	198.8	203.9	208.4	217.2	233.1	258.5	297.9
75°	143.0	145.1	148.5	151.3	154.6	153.9	158.8	164.3	169.1	184.3	206.9
77.5°	106.4	105.3	105.7	108.1	108.5	109.2	112.6	116.8	120.5	127.6	135.7
80°	81.1	81.1	83.2	83.9	83.2	83.9	87.3	89.4	90.7	93.5	101.1
82.5°	61.3	62.4	61.7	62.4	62.9	63.5	66.4	66.8	68.2	69.3	72.5
85°	34.4	35.0	35.7	34.4	34.4	34.4	35.7	36.4	37.8	37.1	38.5
87.5°	13.3	12.8	13.4	13.3	13.9	13.3	13.8	14.8	13.7	14.3	14.2
90°	6.4	6.4	6.7	6.4	6.1	6.1	5.8	5.5	5.2	5.5	4.9
92.5°	23.4	23.4	24.5	26.1	29.7	35.8	44.9	59.8	80.4	96.5	84.5
95°	74.2	78.2	83.7	93.1	108.1	137.5	178.3	225.5	255.0	248.0	187.2
97.5°	198.5	204.8	214.0	232.2	254.1	285.9	315.6	333.1	320.4	261.2	175.1
100°	279.1	281.5	290.6	309.2	335.6	358.2	373.1	367.0	322.5	244.7	158.9
102.5°	349.1	351.1	360.8	374.2	390.4	399.8	395.5	365.3	304.3	223.9	147.9
105°	428.2	430.0	434.2	436.7	436.1	423.6	393.5	340.8	271.1	199.6	138.4
107.5°	457.4	456.7	453.7	446.7	431.7	404.5	362.1	306.1	244.4	186.0	136.7
110°	458.0	455.2	449.8	437.0	415.3	381.9	337.8	285.2	231.0	181.3	137.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	443.6	439.2	431.5	416.0	391.5	358.0	316.3	269.8	223.4	179.2	138.7
115°	411.1	408.7	398.9	380.6	356.6	327.4	291.8	254.4	216.4	178.1	141.5
117.5°	378.2	376.3	366.4	351.1	330.6	305.8	277.8	246.8	213.2	177.7	144.5
120°	359.7	356.4	348.4	335.0	317.7	296.1	271.7	243.4	211.5	177.7	146.7
122.5°	345.1	341.7	335.0	323.6	308.9	290.0	267.9	240.5	209.6	177.5	148.9
125°	328.0	326.2	320.5	311.6	299.5	282.7	261.7	235.6	206.3	177.1	152.1
127.5°	318.1	316.2	311.3	303.5	291.3	275.4	254.4	229.5	202.0	176.4	154.8
130°	312.2	310.4	305.5	297.9	285.4	269.3	248.7	224.5	199.3	176.2	156.7
132.5°	305.7	303.8	299.2	290.6	278.4	262.3	242.0	219.5	196.9	176.0	158.4
135°	293.3	291.5	286.6	278.1	266.0	250.7	232.2	212.4	193.2	175.6	161.0
137.5°	278.1	276.0	271.9	263.6	252.1	238.4	222.7	206.0	190.1	175.6	162.5
140°	267.2	264.8	260.5	253.8	243.1	230.3	216.6	202.3	188.4	175.3	163.7
142.5°	255.5	253.8	250.0	243.8	234.4	223.3	211.5	199.0	186.9	175.3	164.7
145°	239.4	238.0	234.9	229.7	222.1	213.6	204.5	194.2	184.4	174.7	165.2
147.5°	225.3	224.7	222.5	218.0	212.4	205.7	198.4	190.2	182.2	173.6	165.6
150°	217.2	217.0	215.2	211.2	206.3	200.9	194.8	187.8	180.5	172.8	165.6
152.5°	210.0	209.7	208.5	205.3	201.2	196.7	191.1	185.1	178.5	171.6	165.1
155°	200.5	200.5	199.6	197.2	194.2	190.5	185.9	181.1	175.6	169.8	164.4
157.5°	192.3	192.3	191.7	189.9	187.6	184.7	180.8	176.8	172.6	167.9	163.5
160°	187.2	187.2	186.8	185.0	183.2	180.7	177.4	174.1	170.4	166.4	162.8
162.5°	182.3	182.5	182.2	180.4	179.1	176.8	174.3	171.4	168.5	165.0	162.0
165°	175.0	175.3	175.6	174.4	173.1	171.6	169.5	167.6	165.2	162.8	160.7
167.5°	169.2	169.4	169.5	168.7	168.1	167.2	165.5	164.1	162.3	160.6	159.2
170°	165.6	165.6	165.8	165.6	165.0	164.0	162.8	161.9	160.4	159.1	158.3
172.5°	161.9	162.4	162.6	162.4	162.0	161.4	160.6	160.0	158.7	157.6	157.3
175°	157.6	158.3	158.9	158.3	158.3	158.3	157.6	157.3	156.7	156.1	156.1
177.5°	155.2	155.6	156.1	155.8	156.1	155.8	155.8	155.6	155.4	155.2	155.2
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1757.9	1750.2	1746.4	1737.6	1727.1	1721.6	1716.7	1709.5	1700.1	1690.2	1683.1
5°	1847.1	1830.7	1810.0	1785.3	1763.2	1742.0	1723.4	1704.9	1683.5	1661.6	1639.5
7.5°	1938.7	1906.3	1871.2	1830.7	1791.1	1755.3	1722.3	1690.7	1654.9	1622.9	1593.7
10°	2002.5	1958.5	1909.7	1858.1	1806.6	1761.9	1717.9	1678.0	1634.0	1594.8	1561.9
12.5°	2054.2	2002.5	1943.8	1879.6	1817.6	1763.5	1713.0	1661.0	1610.9	1568.5	1524.5
15°	2139.9	2069.2	1990.1	1913.1	1832.7	1759.1	1691.1	1630.6	1573.6	1513.7	1471.8
17.5°	2199.0	2115.0	2018.9	1926.3	1831.3	1744.6	1666.0	1594.1	1528.2	1467.1	1417.2
20°	2234.1	2141.3	2034.8	1929.6	1823.1	1730.3	1645.7	1566.0	1497.9	1431.9	1380.4
22.5°	2253.9	2151.2	2034.8	1924.7	1814.3	1713.7	1620.9	1537.9	1463.8	1397.8	1340.7
25°	2260.3	2150.3	2031.4	1904.9	1783.9	1677.3	1581.1	1491.0	1408.5	1342.6	1282.0
27.5°	2251.5	2121.9	2000.2	1870.4	1745.5	1633.2	1532.1	1437.5	1355.0	1284.1	1222.1
30°	2238.3	2099.4	1968.8	1834.1	1707.5	1599.7	1493.1	1402.4	1316.5	1242.9	1180.3
32.5°	2209.7	2071.9	1931.4	1793.4	1665.3	1554.0	1452.9	1361.7	1277.4	1202.2	1135.7
35°	2153.0	2013.4	1860.9	1719.2	1593.5	1478.0	1383.1	1295.1	1214.7	1134.3	1064.1
37.5°	2078.4	1935.8	1784.0	1628.9	1503.0	1394.0	1306.9	1224.3	1145.8	1072.4	994.7
40°	2008.0	1878.1	1721.3	1567.4	1438.1	1332.9	1252.5	1177.6	1098.5	1025.6	948.0
42.5°	1922.8	1812.1	1653.7	1499.2	1371.6	1270.2	1195.3	1122.1	1050.2	979.5	898.5
45°	1780.5	1696.6	1548.1	1399.6	1271.1	1170.7	1102.0	1037.3	974.0	906.7	830.4
47.5°	1617.4	1560.6	1432.4	1280.4	1161.5	1071.2	1004.8	951.9	898.5	831.1	764.1
50°	1504.1	1467.7	1343.9	1205.1	1091.7	1008.5	940.4	890.9	846.2	781.6	721.8
52.5°	1383.1	1363.7	1259.2	1126.4	1016.8	935.3	877.2	832.6	787.4	733.7	677.8
55°	1198.9	1209.2	1120.5	1005.7	902.6	833.9	780.9	743.8	705.3	660.0	616.6
57.5°	1010.6	1048.2	988.7	887.9	791.3	727.7	687.9	656.6	624.3	586.7	549.7
60°	897.8	929.4	895.7	807.0	722.5	663.4	626.3	602.2	569.9	535.5	507.3
62.5°	787.8	821.7	801.7	730.0	651.5	600.7	567.9	545.5	521.5	491.5	462.3
65°	649.6	671.6	662.0	612.5	556.8	513.5	483.3	466.7	444.8	422.8	396.7
67.5°	497.6	540.0	534.4	508.2	460.0	426.2	406.4	391.8	371.8	355.4	337.7
70°	409.1	448.2	447.5	426.2	400.1	368.4	354.7	342.3	324.4	308.7	294.2
72.5°	334.8	370.7	376.0	359.6	341.8	317.9	304.7	296.2	278.8	267.9	256.2
75°	234.5	260.5	267.4	267.4	259.2	246.8	235.1	229.6	217.2	207.6	200.7
77.5°	153.7	170.2	180.9	183.4	184.7	180.6	170.9	167.0	157.6	154.1	147.5
80°	108.6	119.6	132.0	136.1	139.6	138.2	134.1	131.3	122.3	118.9	116.1
82.5°	75.1	81.1	91.3	100.4	99.4	103.0	99.4	97.2	90.5	89.2	86.4
85°	39.2	39.9	41.2	47.4	50.9	52.3	53.0	51.6	49.5	49.5	44.7
87.5°	14.0	13.5	14.2	14.2	14.7	16.9	18.3	18.8	17.2	15.8	14.2
90°	4.2	4.2	2.4	2.4	2.2	1.8	0.9	0.3	0.9	1.8	2.2
92.5°	61.5	37.9	22.4	16.1	11.6	7.9	5.1	3.4	5.1	7.9	11.6
95°	114.4	64.5	38.1	25.2	18.0	14.0	10.9	10.1	10.9	14.0	18.0
97.5°	102.9	61.6	41.2	30.6	24.3	20.7	18.0	18.0	18.0	20.7	24.3
100°	96.8	62.4	44.4	34.7	28.9	25.2	23.2	23.2	23.2	25.2	28.9
102.5°	95.1	64.8	48.6	39.3	33.8	30.4	28.5	28.0	28.5	30.4	33.8
105°	95.8	70.6	56.0	47.2	41.7	38.1	36.5	35.6	36.5	38.1	41.7
107.5°	100.4	77.3	64.0	55.3	50.0	46.1	44.6	44.0	44.6	46.1	50.0
110°	103.8	82.5	69.1	60.9	55.4	51.7	50.2	49.6	50.2	51.7	55.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	107.5	87.3	74.4	66.2	60.7	57.3	55.5	54.9	55.5	57.3	60.7
115°	113.2	95.0	82.7	74.6	68.8	65.7	63.6	62.7	63.6	65.7	68.8
117.5°	119.1	102.3	90.7	82.2	76.8	73.4	71.5	70.7	71.5	73.4	76.8
120°	123.2	107.5	95.8	87.3	82.1	78.8	76.7	76.1	76.7	78.8	82.1
122.5°	127.2	112.3	100.7	92.5	86.8	83.7	81.5	80.9	81.5	83.7	86.8
125°	132.9	119.0	108.1	99.5	93.8	90.4	88.5	87.3	88.5	90.4	93.8
127.5°	138.0	125.2	114.6	106.0	100.0	96.2	93.9	93.0	93.9	96.2	100.0
130°	141.2	129.3	119.0	110.1	104.4	99.8	97.4	96.2	97.4	99.8	104.4
132.5°	144.4	132.8	122.3	114.1	107.8	103.5	100.3	99.4	100.3	103.5	107.8
135°	148.5	137.5	127.5	119.6	113.2	108.1	105.0	103.8	105.0	108.1	113.2
137.5°	151.4	141.2	131.8	124.2	117.6	112.7	109.3	108.2	109.3	112.7	117.6
140°	153.3	143.6	134.5	127.2	120.8	115.6	112.3	111.4	112.3	115.6	120.8
142.5°	154.8	145.9	136.9	129.8	123.7	118.8	115.7	114.8	115.7	118.8	123.7
145°	156.4	148.2	140.3	133.6	127.8	123.6	120.5	119.6	120.5	123.6	127.8
147.5°	157.8	150.6	143.2	137.2	132.3	128.0	125.3	125.0	125.3	128.0	132.3
150°	158.5	151.9	145.2	139.4	134.8	131.1	128.7	128.4	128.7	131.1	134.8
152.5°	159.0	152.8	146.9	141.5	137.5	134.1	131.6	131.6	131.6	134.1	137.5
155°	159.5	154.3	149.1	144.6	141.2	138.2	136.3	136.0	136.3	138.2	141.2
157.5°	159.5	155.3	150.9	147.3	144.4	142.1	140.3	140.3	140.3	142.1	144.4
160°	159.5	155.8	152.1	148.8	146.4	144.2	143.0	143.0	143.0	144.2	146.4
162.5°	159.5	156.3	152.9	150.2	148.1	146.2	145.3	145.4	145.3	146.2	148.1
165°	158.9	156.4	153.7	151.9	150.3	148.8	148.2	148.2	148.2	148.8	150.3
167.5°	158.1	156.4	154.4	152.9	152.1	150.9	150.6	150.9	150.6	150.9	152.1
170°	157.6	156.1	154.5	153.7	153.1	152.1	151.9	152.1	151.9	152.1	153.1
172.5°	157.1	155.8	154.8	154.1	153.8	153.1	153.1	153.3	153.1	153.1	153.8
175°	156.4	155.5	154.9	154.9	154.5	154.3	154.3	154.5	154.3	154.3	154.5
177.5°	155.6	155.2	154.9	154.9	154.9	154.6	154.9	155.2	154.9	154.6	154.9
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1675.4	1669.9	1662.8	1654.5	1644.6	1635.8	1631.9	1635.3	1636.9	1632.5	1631.9
5°	1624.4	1607.2	1593.5	1572.9	1556.3	1542.6	1533.0	1528.9	1530.3	1519.2	1516.5
7.5°	1567.1	1546.7	1524.1	1499.7	1476.9	1456.6	1446.0	1440.3	1428.7	1423.7	1415.3
10°	1530.3	1502.7	1480.7	1451.8	1425.7	1401.7	1390.0	1380.4	1368.6	1363.1	1351.5
12.5°	1492.3	1460.3	1436.1	1406.2	1379.5	1350.6	1339.4	1321.5	1303.2	1291.7	1276.7
15°	1438.8	1400.3	1370.7	1335.0	1303.4	1270.4	1240.8	1207.8	1195.4	1169.3	1154.2
17.5°	1376.2	1337.2	1300.6	1252.7	1203.9	1162.9	1131.4	1099.8	1080.8	1064.1	1056.4
20°	1335.0	1299.2	1248.4	1192.7	1138.4	1093.0	1067.6	1047.0	1026.3	1014.7	1006.4
22.5°	1296.0	1250.3	1191.2	1131.1	1076.8	1041.3	1019.8	998.6	981.8	970.7	959.7
25°	1230.5	1170.7	1108.1	1039.4	1002.3	971.4	948.0	930.7	920.5	906.0	900.5
27.5°	1163.3	1090.8	1021.8	975.6	936.9	908.6	888.3	875.4	862.3	853.1	845.9
30°	1111.6	1038.0	976.1	932.1	892.9	869.6	853.1	838.0	827.7	820.1	814.6
32.5°	1060.4	986.9	934.9	887.6	856.7	833.9	816.2	804.9	796.9	787.1	783.8
35°	986.4	921.2	875.8	833.2	801.5	780.9	767.2	755.5	748.6	745.9	743.8
37.5°	915.4	861.9	813.1	778.2	750.0	733.7	717.6	711.8	707.1	702.1	704.4
40°	870.3	820.1	776.8	739.7	717.0	699.1	689.5	682.6	678.5	678.5	678.5
42.5°	831.2	782.1	739.9	706.7	684.0	668.9	658.1	652.4	651.0	650.5	653.8
45°	770.6	725.2	682.6	655.1	635.8	620.8	614.6	609.8	609.8	612.5	613.2
47.5°	710.5	668.0	633.8	603.0	585.4	575.9	570.6	568.1	568.3	571.1	574.3
50°	673.6	631.7	598.1	570.6	554.1	545.1	540.3	539.0	540.3	540.3	545.1
52.5°	633.5	596.0	562.8	539.8	521.1	512.7	510.1	508.2	508.9	511.2	513.2
55°	574.7	541.0	509.4	487.4	473.6	468.1	461.9	462.6	461.2	462.6	462.6
57.5°	515.7	485.4	456.1	438.6	426.5	418.5	411.7	413.7	411.6	411.4	410.3
60°	477.8	444.8	421.4	405.6	391.8	385.0	378.8	380.1	378.1	376.7	373.9
62.5°	436.5	409.1	386.8	371.5	360.5	352.5	346.3	344.9	340.2	335.4	329.4
65°	376.7	354.0	334.1	319.7	309.4	303.2	298.3	294.2	283.9	272.9	267.4
67.5°	318.6	302.2	283.6	271.4	263.0	254.9	245.7	238.7	229.0	223.0	219.6
70°	281.1	265.4	249.5	237.8	228.9	221.4	211.0	206.2	199.3	196.6	193.2
72.5°	245.4	230.7	216.0	205.4	195.9	190.0	181.9	177.1	174.1	173.0	169.5
75°	191.1	179.4	168.4	158.8	151.3	147.1	143.7	140.3	138.9	132.7	129.2
77.5°	139.4	131.7	124.8	118.0	112.6	109.9	103.2	99.3	96.9	94.0	93.3
80°	108.6	103.1	96.3	92.1	84.6	81.8	79.0	78.4	77.7	77.0	76.3
82.5°	81.7	76.2	69.3	66.8	64.7	63.1	61.5	60.8	60.1	60.5	60.4
85°	41.2	38.5	38.5	37.8	37.1	36.4	35.7	35.7	35.0	35.7	35.0
87.5°	14.2	13.7	14.0	12.9	13.6	13.8	13.2	13.2	13.8	12.7	12.7
90°	2.4	2.4	4.2	4.2	4.9	5.5	5.2	5.5	5.8	6.1	6.1
92.5°	16.1	22.4	37.9	61.5	84.5	96.5	80.4	59.8	44.9	35.8	29.7
95°	25.2	38.1	64.5	114.4	187.2	248.0	255.0	225.5	178.3	137.5	108.1
97.5°	30.6	41.2	61.6	102.9	175.1	261.2	320.4	333.1	315.6	285.9	254.1
100°	34.7	44.4	62.4	96.8	158.9	244.7	322.5	367.0	373.1	358.2	335.6
102.5°	39.3	48.6	64.8	95.1	147.9	223.9	304.3	365.3	395.5	399.8	390.4
105°	47.2	56.0	70.6	95.8	138.4	199.6	271.1	340.8	393.5	423.6	436.1
107.5°	55.3	64.0	77.3	100.4	136.7	186.0	244.4	306.1	362.1	404.5	431.7
110°	60.9	69.1	82.5	103.8	137.2	181.3	231.0	285.2	337.8	381.9	415.3



TEST NUMBER: P332987-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.2	74.4	87.3	107.5	138.7	179.2	223.4	269.8	316.3	358.0	391.5
115°	74.6	82.7	95.0	113.2	141.5	178.1	216.4	254.4	291.8	327.4	356.6
117.5°	82.2	90.7	102.3	119.1	144.5	177.7	213.2	246.8	277.8	305.8	330.6
120°	87.3	95.8	107.5	123.2	146.7	177.7	211.5	243.4	271.7	296.1	317.7
122.5°	92.5	100.7	112.3	127.2	148.9	177.5	209.6	240.5	267.9	290.0	308.9
125°	99.5	108.1	119.0	132.9	152.1	177.1	206.3	235.6	261.7	282.7	299.5
127.5°	106.0	114.6	125.2	138.0	154.8	176.4	202.0	229.5	254.4	275.4	291.3
130°	110.1	119.0	129.3	141.2	156.7	176.2	199.3	224.5	248.7	269.3	285.4
132.5°	114.1	122.3	132.8	144.4	158.4	176.0	196.9	219.5	242.0	262.3	278.4
135°	119.6	127.5	137.5	148.5	161.0	175.6	193.2	212.4	232.2	250.7	266.0
137.5°	124.2	131.8	141.2	151.4	162.5	175.6	190.1	206.0	222.7	238.4	252.1
140°	127.2	134.5	143.6	153.3	163.7	175.3	188.4	202.3	216.6	230.3	243.1
142.5°	129.8	136.9	145.9	154.8	164.7	175.3	186.9	199.0	211.5	223.3	234.4
145°	133.6	140.3	148.2	156.4	165.2	174.7	184.4	194.2	204.5	213.6	222.1
147.5°	137.2	143.2	150.6	157.8	165.6	173.6	182.2	190.2	198.4	205.7	212.4
150°	139.4	145.2	151.9	158.5	165.6	172.8	180.5	187.8	194.8	200.9	206.3
152.5°	141.5	146.9	152.8	159.0	165.1	171.6	178.5	185.1	191.1	196.7	201.2
155°	144.6	149.1	154.3	159.5	164.4	169.8	175.6	181.1	185.9	190.5	194.2
157.5°	147.3	150.9	155.3	159.5	163.5	167.9	172.6	176.8	180.8	184.7	187.6
160°	148.8	152.1	155.8	159.5	162.8	166.4	170.4	174.1	177.4	180.7	183.2
162.5°	150.2	152.9	156.3	159.5	162.0	165.0	168.5	171.4	174.3	176.8	179.1
165°	151.9	153.7	156.4	158.9	160.7	162.8	165.2	167.6	169.5	171.6	173.1
167.5°	152.9	154.4	156.4	158.1	159.2	160.6	162.3	164.1	165.5	167.2	168.1
170°	153.7	154.5	156.1	157.6	158.3	159.1	160.4	161.9	162.8	164.0	165.0
172.5°	154.1	154.8	155.8	157.1	157.3	157.6	158.7	160.0	160.6	161.4	162.0
175°	154.9	154.9	155.5	156.4	156.1	156.1	156.7	157.3	157.6	158.3	158.3
177.5°	154.9	154.9	155.2	155.6	155.2	155.2	155.4	155.6	155.8	155.8	156.1
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



TEST NUMBER: P332987-935

CATALOG NUMBER: SA4XXRDIP-C1195D365U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1628.7	1629.8	1625.9	1624.8	1625.9	1629.8	1628.7	1631.9	1632.5	1636.9	1635.3
5°	1511.0	1509.6	1506.1	1506.8	1506.1	1509.6	1511.0	1516.5	1519.2	1530.3	1528.9
7.5°	1410.3	1405.0	1406.4	1401.0	1406.4	1405.0	1410.3	1415.3	1423.7	1428.7	1440.3
10°	1348.8	1341.2	1335.0	1329.5	1335.0	1341.2	1348.8	1351.5	1363.1	1368.6	1380.4
12.5°	1264.6	1258.1	1249.7	1251.4	1249.7	1258.1	1264.6	1276.7	1291.7	1303.2	1321.5
15°	1145.2	1135.0	1118.4	1120.5	1118.4	1135.0	1145.2	1154.2	1169.3	1195.4	1207.8
17.5°	1044.2	1044.3	1036.8	1038.5	1036.8	1044.3	1044.2	1056.4	1064.1	1080.8	1099.8
20°	992.0	987.1	987.8	985.8	987.8	987.1	992.0	1006.4	1014.7	1026.3	1047.0
22.5°	955.6	949.8	944.9	940.6	944.9	949.8	955.6	959.7	970.7	981.8	998.6
25°	894.3	890.2	884.1	882.7	884.1	890.2	894.3	900.5	906.0	920.5	930.7
27.5°	840.4	839.6	837.2	834.0	837.2	839.6	840.4	845.9	853.1	862.3	875.4
30°	809.1	807.7	806.3	804.3	806.3	807.7	809.1	814.6	820.1	827.7	838.0
32.5°	781.1	780.2	778.9	779.0	778.9	780.2	781.1	783.8	787.1	796.9	804.9
35°	741.1	740.4	739.0	738.3	739.0	740.4	741.1	743.8	745.9	748.6	755.5
37.5°	703.7	705.4	704.6	704.5	704.6	705.4	703.7	704.4	702.1	707.1	711.8
40°	677.8	678.5	679.8	679.2	679.8	678.5	677.8	678.5	678.5	678.5	682.6
42.5°	656.3	656.5	658.4	656.1	658.4	656.5	656.3	653.8	650.5	651.0	652.4
45°	618.0	622.2	621.5	621.5	621.5	622.2	618.0	613.2	612.5	609.8	609.8
47.5°	576.1	579.6	580.6	580.5	580.6	579.6	576.1	574.3	571.1	568.3	568.1
50°	548.5	547.2	549.2	548.5	549.2	547.2	548.5	545.1	540.3	540.3	539.0
52.5°	515.1	515.3	515.1	514.4	515.1	515.3	515.1	513.2	511.2	508.9	508.2
55°	463.3	464.0	462.6	463.3	462.6	464.0	463.3	462.6	462.6	461.2	462.6
57.5°	407.3	403.9	405.3	403.6	405.3	403.9	407.3	410.3	411.4	411.6	413.7
60°	367.1	361.6	360.2	357.5	360.2	361.6	367.1	373.9	376.7	378.1	380.1
62.5°	322.0	318.1	313.5	315.6	313.5	318.1	322.0	329.4	335.4	340.2	344.9
65°	261.9	259.2	257.1	259.8	257.1	259.2	261.9	267.4	272.9	283.9	294.2
67.5°	216.8	215.3	215.3	214.0	215.3	215.3	216.8	219.6	223.0	229.0	238.7
70°	193.2	191.1	191.1	189.8	191.1	191.1	193.2	193.2	196.6	199.3	206.2
72.5°	168.9	166.9	167.5	166.6	167.5	166.9	168.9	169.5	173.0	174.1	177.1
75°	125.1	121.7	121.7	122.3	121.7	121.7	125.1	129.2	132.7	138.9	140.3
77.5°	93.3	92.6	93.6	92.4	93.6	92.6	93.3	93.3	94.0	96.9	99.3
80°	76.3	75.6	74.9	77.0	74.9	75.6	76.3	76.3	77.0	77.7	78.4
82.5°	59.2	59.2	59.0	61.6	59.0	59.2	59.2	60.4	60.5	60.1	60.8
85°	35.7	34.4	35.7	34.4	35.7	34.4	35.7	35.0	35.7	35.0	35.7
87.5°	13.9	13.4	12.8	13.3	12.8	13.4	13.9	12.7	12.7	13.8	13.2
90°	6.4	6.7	6.4	6.4	6.4	6.7	6.4	6.1	6.1	5.8	5.5
92.5°	26.1	24.5	23.4	23.4	23.4	24.5	26.1	29.7	35.8	44.9	59.8
95°	93.1	83.7	78.2	74.2	78.2	83.7	93.1	108.1	137.5	178.3	225.5
97.5°	232.2	214.0	204.8	198.5	204.8	214.0	232.2	254.1	285.9	315.6	333.1
100°	309.2	290.6	281.5	279.1	281.5	290.6	309.2	335.6	358.2	373.1	367.0
102.5°	374.2	360.8	351.1	349.1	351.1	360.8	374.2	390.4	399.8	395.5	365.3
105°	436.7	434.2	430.0	428.2	430.0	434.2	436.7	436.1	423.6	393.5	340.8
107.5°	446.7	453.7	456.7	457.4	456.7	453.7	446.7	431.7	404.5	362.1	306.1
110°	437.0	449.8	455.2	458.0	455.2	449.8	437.0	415.3	381.9	337.8	285.2



TEST NUMBER: P332987-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	416.0	431.5	439.2	443.6	439.2	431.5	416.0	391.5	358.0	316.3	269.8
115°	380.6	398.9	408.7	411.1	408.7	398.9	380.6	356.6	327.4	291.8	254.4
117.5°	351.1	366.4	376.3	378.2	376.3	366.4	351.1	330.6	305.8	277.8	246.8
120°	335.0	348.4	356.4	359.7	356.4	348.4	335.0	317.7	296.1	271.7	243.4
122.5°	323.6	335.0	341.7	345.1	341.7	335.0	323.6	308.9	290.0	267.9	240.5
125°	311.6	320.5	326.2	328.0	326.2	320.5	311.6	299.5	282.7	261.7	235.6
127.5°	303.5	311.3	316.2	318.1	316.2	311.3	303.5	291.3	275.4	254.4	229.5
130°	297.9	305.5	310.4	312.2	310.4	305.5	297.9	285.4	269.3	248.7	224.5
132.5°	290.6	299.2	303.8	305.7	303.8	299.2	290.6	278.4	262.3	242.0	219.5
135°	278.1	286.6	291.5	293.3	291.5	286.6	278.1	266.0	250.7	232.2	212.4
137.5°	263.6	271.9	276.0	278.1	276.0	271.9	263.6	252.1	238.4	222.7	206.0
140°	253.8	260.5	264.8	267.2	264.8	260.5	253.8	243.1	230.3	216.6	202.3
142.5°	243.8	250.0	253.8	255.5	253.8	250.0	243.8	234.4	223.3	211.5	199.0
145°	229.7	234.9	238.0	239.4	238.0	234.9	229.7	222.1	213.6	204.5	194.2
147.5°	218.0	222.5	224.7	225.3	224.7	222.5	218.0	212.4	205.7	198.4	190.2
150°	211.2	215.2	217.0	217.2	217.0	215.2	211.2	206.3	200.9	194.8	187.8
152.5°	205.3	208.5	209.7	210.0	209.7	208.5	205.3	201.2	196.7	191.1	185.1
155°	197.2	199.6	200.5	200.5	200.5	199.6	197.2	194.2	190.5	185.9	181.1
157.5°	189.9	191.7	192.3	192.3	192.3	191.7	189.9	187.6	184.7	180.8	176.8
160°	185.0	186.8	187.2	187.2	187.2	186.8	185.0	183.2	180.7	177.4	174.1
162.5°	180.4	182.2	182.5	182.3	182.5	182.2	180.4	179.1	176.8	174.3	171.4
165°	174.4	175.6	175.3	175.0	175.3	175.6	174.4	173.1	171.6	169.5	167.6
167.5°	168.7	169.5	169.4	169.2	169.4	169.5	168.7	168.1	167.2	165.5	164.1
170°	165.6	165.8	165.6	165.6	165.6	165.8	165.6	165.0	164.0	162.8	161.9
172.5°	162.4	162.6	162.4	161.9	162.4	162.6	162.4	162.0	161.4	160.6	160.0
175°	158.3	158.9	158.3	157.6	158.3	158.9	158.3	158.3	158.3	157.6	157.3
177.5°	155.8	156.1	155.6	155.2	155.6	156.1	155.8	156.1	155.8	155.8	155.6
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1631.9	1635.8	1644.6	1654.5	1662.8	1669.9	1675.4	1683.1	1690.2	1700.1	1709.5
5°	1533.0	1542.6	1556.3	1572.9	1593.5	1607.2	1624.4	1639.5	1661.6	1683.5	1704.9
7.5°	1446.0	1456.6	1476.9	1499.7	1524.1	1546.7	1567.1	1593.7	1622.9	1654.9	1690.7
10°	1390.0	1401.7	1425.7	1451.8	1480.7	1502.7	1530.3	1561.9	1594.8	1634.0	1678.0
12.5°	1339.4	1350.6	1379.5	1406.2	1436.1	1460.3	1492.3	1524.5	1568.5	1610.9	1661.0
15°	1240.8	1270.4	1303.4	1335.0	1370.7	1400.3	1438.8	1471.8	1513.7	1573.6	1630.6
17.5°	1131.4	1162.9	1203.9	1252.7	1300.6	1337.2	1376.2	1417.2	1467.1	1528.2	1594.1
20°	1067.6	1093.0	1138.4	1192.7	1248.4	1299.2	1335.0	1380.4	1431.9	1497.9	1566.0
22.5°	1019.8	1041.3	1076.8	1131.1	1191.2	1250.3	1296.0	1340.7	1397.8	1463.8	1537.9
25°	948.0	971.4	1002.3	1039.4	1108.1	1170.7	1230.5	1282.0	1342.6	1408.5	1491.0
27.5°	888.3	908.6	936.9	975.6	1021.8	1090.8	1163.3	1222.1	1284.1	1355.0	1437.5
30°	853.1	869.6	892.9	932.1	976.1	1038.0	1111.6	1180.3	1242.9	1316.5	1402.4
32.5°	816.2	833.9	856.7	887.6	934.9	986.9	1060.4	1135.7	1202.2	1277.4	1361.7
35°	767.2	780.9	801.5	833.2	875.8	921.2	986.4	1064.1	1134.3	1214.7	1295.1
37.5°	717.6	733.7	750.0	778.2	813.1	861.9	915.4	994.7	1072.4	1145.8	1224.3
40°	689.5	699.1	717.0	739.7	776.8	820.1	870.3	948.0	1025.6	1098.5	1177.6
42.5°	658.1	668.9	684.0	706.7	739.9	782.1	831.2	898.5	979.5	1050.2	1122.1
45°	614.6	620.8	635.8	655.1	682.6	725.2	770.6	830.4	906.7	974.0	1037.3
47.5°	570.6	575.9	585.4	603.0	633.8	668.0	710.5	764.1	831.1	898.5	951.9
50°	540.3	545.1	554.1	570.6	598.1	631.7	673.6	721.8	781.6	846.2	890.9
52.5°	510.1	512.7	521.1	539.8	562.8	596.0	633.5	677.8	733.7	787.4	832.6
55°	461.9	468.1	473.6	487.4	509.4	541.0	574.7	616.6	660.0	705.3	743.8
57.5°	411.7	418.5	426.5	438.6	456.1	485.4	515.7	549.7	586.7	624.3	656.6
60°	378.8	385.0	391.8	405.6	421.4	444.8	477.8	507.3	535.5	569.9	602.2
62.5°	346.3	352.5	360.5	371.5	386.8	409.1	436.5	462.3	491.5	521.5	545.5
65°	298.3	303.2	309.4	319.7	334.1	354.0	376.7	396.7	422.8	444.8	466.7
67.5°	245.7	254.9	263.0	271.4	283.6	302.2	318.6	337.7	355.4	371.8	391.8
70°	211.0	221.4	228.9	237.8	249.5	265.4	281.1	294.2	308.7	324.4	342.3
72.5°	181.9	190.0	195.9	205.4	216.0	230.7	245.4	256.2	267.9	278.8	296.2
75°	143.7	147.1	151.3	158.8	168.4	179.4	191.1	200.7	207.6	217.2	229.6
77.5°	103.2	109.9	112.6	118.0	124.8	131.7	139.4	147.5	154.1	157.6	167.0
80°	79.0	81.8	84.6	92.1	96.3	103.1	108.6	116.1	118.9	122.3	131.3
82.5°	61.5	63.1	64.7	66.8	69.3	76.2	81.7	86.4	89.2	90.5	97.2
85°	35.7	36.4	37.1	37.8	38.5	38.5	41.2	44.7	49.5	49.5	51.6
87.5°	13.2	13.8	13.6	12.9	14.0	13.7	14.2	14.2	15.8	17.2	18.8
90°	5.2	5.5	4.9	4.2	4.2	2.4	2.4	2.2	1.8	0.9	0.3
92.5°	80.4	96.5	84.5	61.5	37.9	22.4	16.1	11.6	7.9	5.1	3.4
95°	255.0	248.0	187.2	114.4	64.5	38.1	25.2	18.0	14.0	10.9	10.1
97.5°	320.4	261.2	175.1	102.9	61.6	41.2	30.6	24.3	20.7	18.0	18.0
100°	322.5	244.7	158.9	96.8	62.4	44.4	34.7	28.9	25.2	23.2	23.2
102.5°	304.3	223.9	147.9	95.1	64.8	48.6	39.3	33.8	30.4	28.5	28.0
105°	271.1	199.6	138.4	95.8	70.6	56.0	47.2	41.7	38.1	36.5	35.6
107.5°	244.4	186.0	136.7	100.4	77.3	64.0	55.3	50.0	46.1	44.6	44.0
110°	231.0	181.3	137.2	103.8	82.5	69.1	60.9	55.4	51.7	50.2	49.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	223.4	179.2	138.7	107.5	87.3	74.4	66.2	60.7	57.3	55.5	54.9
115°	216.4	178.1	141.5	113.2	95.0	82.7	74.6	68.8	65.7	63.6	62.7
117.5°	213.2	177.7	144.5	119.1	102.3	90.7	82.2	76.8	73.4	71.5	70.7
120°	211.5	177.7	146.7	123.2	107.5	95.8	87.3	82.1	78.8	76.7	76.1
122.5°	209.6	177.5	148.9	127.2	112.3	100.7	92.5	86.8	83.7	81.5	80.9
125°	206.3	177.1	152.1	132.9	119.0	108.1	99.5	93.8	90.4	88.5	87.3
127.5°	202.0	176.4	154.8	138.0	125.2	114.6	106.0	100.0	96.2	93.9	93.0
130°	199.3	176.2	156.7	141.2	129.3	119.0	110.1	104.4	99.8	97.4	96.2
132.5°	196.9	176.0	158.4	144.4	132.8	122.3	114.1	107.8	103.5	100.3	99.4
135°	193.2	175.6	161.0	148.5	137.5	127.5	119.6	113.2	108.1	105.0	103.8
137.5°	190.1	175.6	162.5	151.4	141.2	131.8	124.2	117.6	112.7	109.3	108.2
140°	188.4	175.3	163.7	153.3	143.6	134.5	127.2	120.8	115.6	112.3	111.4
142.5°	186.9	175.3	164.7	154.8	145.9	136.9	129.8	123.7	118.8	115.7	114.8
145°	184.4	174.7	165.2	156.4	148.2	140.3	133.6	127.8	123.6	120.5	119.6
147.5°	182.2	173.6	165.6	157.8	150.6	143.2	137.2	132.3	128.0	125.3	125.0
150°	180.5	172.8	165.6	158.5	151.9	145.2	139.4	134.8	131.1	128.7	128.4
152.5°	178.5	171.6	165.1	159.0	152.8	146.9	141.5	137.5	134.1	131.6	131.6
155°	175.6	169.8	164.4	159.5	154.3	149.1	144.6	141.2	138.2	136.3	136.0
157.5°	172.6	167.9	163.5	159.5	155.3	150.9	147.3	144.4	142.1	140.3	140.3
160°	170.4	166.4	162.8	159.5	155.8	152.1	148.8	146.4	144.2	143.0	143.0
162.5°	168.5	165.0	162.0	159.5	156.3	152.9	150.2	148.1	146.2	145.3	145.4
165°	165.2	162.8	160.7	158.9	156.4	153.7	151.9	150.3	148.8	148.2	148.2
167.5°	162.3	160.6	159.2	158.1	156.4	154.4	152.9	152.1	150.9	150.6	150.9
170°	160.4	159.1	158.3	157.6	156.1	154.5	153.7	153.1	152.1	151.9	152.1
172.5°	158.7	157.6	157.3	157.1	155.8	154.8	154.1	153.8	153.1	153.1	153.3
175°	156.7	156.1	156.1	156.4	155.5	154.9	154.9	154.5	154.3	154.3	154.5
177.5°	155.4	155.2	155.2	155.6	155.2	154.9	154.9	154.9	154.6	154.9	155.2
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1716.7	1721.6	1727.1	1737.6	1746.4	1750.2	1757.9	1763.4	1761.8	1769.4	1782.6
5°	1723.4	1742.0	1763.2	1785.3	1810.0	1830.7	1847.1	1863.6	1876.7	1892.5	1915.9
7.5°	1722.3	1755.3	1791.1	1830.7	1871.2	1906.3	1938.7	1971.7	2001.0	2033.0	2074.9
10°	1717.9	1761.9	1806.6	1858.1	1909.7	1958.5	2002.5	2043.8	2082.9	2124.9	2177.8
12.5°	1713.0	1763.5	1817.6	1879.6	1943.8	2002.5	2054.2	2113.6	2162.7	2216.7	2277.9
15°	1691.1	1759.1	1832.7	1913.1	1990.1	2069.2	2139.9	2212.9	2280.9	2345.5	2422.5
17.5°	1666.0	1744.6	1831.3	1926.3	2018.9	2115.0	2199.0	2290.8	2360.3	2447.1	2518.6
20°	1645.7	1730.3	1823.1	1929.6	2034.8	2141.3	2234.1	2327.6	2406.0	2493.3	2584.0
22.5°	1620.9	1713.7	1814.3	1924.7	2034.8	2151.2	2253.9	2346.9	2443.9	2542.3	2635.8
25°	1581.1	1677.3	1783.9	1904.9	2031.4	2150.3	2260.3	2375.8	2480.3	2586.8	2670.6
27.5°	1532.1	1633.2	1745.5	1870.4	2000.2	2121.9	2251.5	2374.6	2479.7	2582.2	2655.4
30°	1493.1	1599.7	1707.5	1834.1	1968.8	2099.4	2238.3	2361.3	2472.0	2564.1	2605.4
32.5°	1452.9	1554.0	1665.3	1793.4	1931.4	2071.9	2209.7	2335.5	2437.9	2493.2	2494.2
35°	1383.1	1478.0	1593.5	1719.2	1860.9	2013.4	2153.0	2276.7	2339.3	2344.2	2276.7
37.5°	1306.9	1394.0	1503.0	1628.9	1784.0	1935.8	2078.4	2160.9	2181.8	2111.8	1987.2
40°	1252.5	1332.9	1438.1	1567.4	1721.3	1878.1	2008.0	2068.5	2046.5	1933.0	1794.2
42.5°	1195.3	1270.2	1371.6	1499.2	1653.7	1812.1	1922.8	1955.2	1896.9	1765.9	1603.4
45°	1102.0	1170.7	1271.1	1399.6	1548.1	1696.6	1780.5	1763.9	1667.0	1511.7	1329.5
47.5°	1004.8	1071.2	1161.5	1280.4	1432.4	1560.6	1617.4	1567.6	1429.7	1258.8	1110.6
50°	940.4	1008.5	1091.7	1205.1	1343.9	1467.7	1504.1	1428.5	1275.1	1110.9	974.7
52.5°	877.2	935.3	1016.8	1126.4	1259.2	1363.7	1383.1	1296.0	1137.7	990.4	869.7
55°	780.9	833.9	902.6	1005.7	1120.5	1209.2	1198.9	1086.8	943.1	817.3	722.5
57.5°	687.9	727.7	791.3	887.9	988.7	1048.2	1010.6	915.0	781.1	678.1	598.1
60°	626.3	663.4	722.5	807.0	895.7	929.4	897.8	794.0	688.1	593.9	526.6
62.5°	567.9	600.7	651.5	730.0	801.7	821.7	787.8	697.2	601.8	521.3	465.5
65°	483.3	513.5	556.8	612.5	662.0	671.6	649.6	556.8	484.7	417.2	378.8
67.5°	406.4	426.2	460.0	508.2	534.4	540.0	497.6	439.3	375.7	334.2	305.2
70°	354.7	368.4	400.1	426.2	447.5	448.2	409.1	362.3	313.5	279.8	258.5
72.5°	304.7	317.9	341.8	359.6	376.0	370.7	334.8	297.9	258.5	233.1	217.2
75°	235.1	246.8	259.2	267.4	267.4	260.5	234.5	206.9	184.3	169.1	164.3
77.5°	170.9	180.6	184.7	183.4	180.9	170.2	153.7	135.7	127.6	120.5	116.8
80°	134.1	138.2	139.6	136.1	132.0	119.6	108.6	101.1	93.5	90.7	89.4
82.5°	99.4	103.0	99.4	100.4	91.3	81.1	75.1	72.5	69.3	68.2	66.8
85°	53.0	52.3	50.9	47.4	41.2	39.9	39.2	38.5	37.1	37.8	36.4
87.5°	18.3	16.9	14.7	14.2	14.2	13.5	14.0	14.2	14.3	13.7	14.8
90°	0.9	1.8	2.2	2.4	2.4	4.2	4.2	4.9	5.5	5.2	5.5
92.5°	5.1	7.9	11.6	16.1	22.4	37.9	61.5	84.5	96.5	80.4	59.8
95°	10.9	14.0	18.0	25.2	38.1	64.5	114.4	187.2	248.0	255.0	225.5
97.5°	18.0	20.7	24.3	30.6	41.2	61.6	102.9	175.1	261.2	320.4	333.1
100°	23.2	25.2	28.9	34.7	44.4	62.4	96.8	158.9	244.7	322.5	367.0
102.5°	28.5	30.4	33.8	39.3	48.6	64.8	95.1	147.9	223.9	304.3	365.3
105°	36.5	38.1	41.7	47.2	56.0	70.6	95.8	138.4	199.6	271.1	340.8
107.5°	44.6	46.1	50.0	55.3	64.0	77.3	100.4	136.7	186.0	244.4	306.1
110°	50.2	51.7	55.4	60.9	69.1	82.5	103.8	137.2	181.3	231.0	285.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.5	57.3	60.7	66.2	74.4	87.3	107.5	138.7	179.2	223.4	269.8
115°	63.6	65.7	68.8	74.6	82.7	95.0	113.2	141.5	178.1	216.4	254.4
117.5°	71.5	73.4	76.8	82.2	90.7	102.3	119.1	144.5	177.7	213.2	246.8
120°	76.7	78.8	82.1	87.3	95.8	107.5	123.2	146.7	177.7	211.5	243.4
122.5°	81.5	83.7	86.8	92.5	100.7	112.3	127.2	148.9	177.5	209.6	240.5
125°	88.5	90.4	93.8	99.5	108.1	119.0	132.9	152.1	177.1	206.3	235.6
127.5°	93.9	96.2	100.0	106.0	114.6	125.2	138.0	154.8	176.4	202.0	229.5
130°	97.4	99.8	104.4	110.1	119.0	129.3	141.2	156.7	176.2	199.3	224.5
132.5°	100.3	103.5	107.8	114.1	122.3	132.8	144.4	158.4	176.0	196.9	219.5
135°	105.0	108.1	113.2	119.6	127.5	137.5	148.5	161.0	175.6	193.2	212.4
137.5°	109.3	112.7	117.6	124.2	131.8	141.2	151.4	162.5	175.6	190.1	206.0
140°	112.3	115.6	120.8	127.2	134.5	143.6	153.3	163.7	175.3	188.4	202.3
142.5°	115.7	118.8	123.7	129.8	136.9	145.9	154.8	164.7	175.3	186.9	199.0
145°	120.5	123.6	127.8	133.6	140.3	148.2	156.4	165.2	174.7	184.4	194.2
147.5°	125.3	128.0	132.3	137.2	143.2	150.6	157.8	165.6	173.6	182.2	190.2
150°	128.7	131.1	134.8	139.4	145.2	151.9	158.5	165.6	172.8	180.5	187.8
152.5°	131.6	134.1	137.5	141.5	146.9	152.8	159.0	165.1	171.6	178.5	185.1
155°	136.3	138.2	141.2	144.6	149.1	154.3	159.5	164.4	169.8	175.6	181.1
157.5°	140.3	142.1	144.4	147.3	150.9	155.3	159.5	163.5	167.9	172.6	176.8
160°	143.0	144.2	146.4	148.8	152.1	155.8	159.5	162.8	166.4	170.4	174.1
162.5°	145.3	146.2	148.1	150.2	152.9	156.3	159.5	162.0	165.0	168.5	171.4
165°	148.2	148.8	150.3	151.9	153.7	156.4	158.9	160.7	162.8	165.2	167.6
167.5°	150.6	150.9	152.1	152.9	154.4	156.4	158.1	159.2	160.6	162.3	164.1
170°	151.9	152.1	153.1	153.7	154.5	156.1	157.6	158.3	159.1	160.4	161.9
172.5°	153.1	153.1	153.8	154.1	154.8	155.8	157.1	157.3	157.6	158.7	160.0
175°	154.3	154.3	154.5	154.9	154.9	155.5	156.4	156.1	156.1	156.7	157.3
177.5°	154.9	154.6	154.9	154.9	154.9	155.2	155.6	155.2	155.2	155.4	155.6
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9	154.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1789.8	1792.0	1793.6	1799.1	1799.7	1804.7	1799.7
5°	1937.9	1947.5	1962.6	1977.7	1979.1	1988.7	1971.5
7.5°	2103.9	2126.2	2140.1	2164.6	2174.2	2180.2	2170.3
10°	2218.4	2238.9	2275.4	2293.3	2311.2	2313.9	2305.7
12.5°	2328.9	2361.6	2390.3	2424.1	2423.4	2447.6	2438.7
15°	2476.1	2509.8	2549.7	2587.5	2601.3	2601.3	2612.3
17.5°	2581.2	2642.9	2684.2	2713.9	2746.2	2751.9	2748.1
20°	2652.1	2718.8	2762.8	2801.3	2823.3	2829.5	2829.5
22.5°	2704.9	2761.7	2804.6	2839.2	2857.4	2864.6	2862.5
25°	2741.5	2790.2	2816.4	2826.7	2831.5	2830.2	2817.1
27.5°	2691.4	2689.2	2672.7	2641.1	2617.4	2602.9	2586.4
30°	2595.7	2560.0	2518.8	2473.4	2414.9	2370.2	2356.5
32.5°	2453.3	2373.0	2303.2	2227.6	2164.7	2120.0	2101.4
35°	2177.8	2050.6	1946.8	1856.1	1790.1	1748.9	1735.1
37.5°	1850.8	1727.8	1599.2	1511.2	1456.6	1414.9	1399.3
40°	1643.0	1508.9	1396.9	1314.4	1258.0	1217.5	1216.8
42.5°	1453.2	1325.3	1219.8	1160.4	1099.6	1072.8	1072.6
45°	1189.9	1087.5	998.2	951.4	915.0	892.9	886.7
47.5°	985.2	900.5	841.0	803.7	774.0	760.0	751.0
50°	870.3	796.1	748.6	716.3	699.8	681.9	680.5
52.5°	774.6	714.6	677.7	651.4	630.5	619.7	620.1
55°	651.0	603.6	577.5	557.5	541.0	532.8	529.3
57.5°	548.5	512.8	493.9	475.5	468.6	462.1	460.3
60°	484.7	460.5	442.7	428.3	417.9	415.9	415.2
62.5°	431.9	406.7	394.3	383.1	375.7	372.5	371.2
65°	356.1	337.5	326.5	317.6	314.9	310.0	309.4
67.5°	287.1	276.0	268.6	262.4	258.7	258.5	258.5
70°	244.7	238.5	232.4	228.9	226.9	225.5	225.5
72.5°	208.4	203.9	198.8	197.0	196.6	195.2	194.7
75°	158.8	153.9	154.6	151.3	148.5	145.1	143.0
77.5°	112.6	109.2	108.5	108.1	105.7	105.3	106.4
80°	87.3	83.9	83.2	83.9	83.2	81.1	81.1
82.5°	66.4	63.5	62.9	62.4	61.7	62.4	61.3
85°	35.7	34.4	34.4	34.4	35.7	35.0	34.4
87.5°	13.8	13.3	13.9	13.3	13.4	12.8	13.3
90°	5.8	6.1	6.1	6.4	6.7	6.4	6.4
92.5°	44.9	35.8	29.7	26.1	24.5	23.4	23.4
95°	178.3	137.5	108.1	93.1	83.7	78.2	74.2
97.5°	315.6	285.9	254.1	232.2	214.0	204.8	198.5
100°	373.1	358.2	335.6	309.2	290.6	281.5	279.1
102.5°	395.5	399.8	390.4	374.2	360.8	351.1	349.1
105°	393.5	423.6	436.1	436.7	434.2	430.0	428.2
107.5°	362.1	404.5	431.7	446.7	453.7	456.7	457.4
110°	337.8	381.9	415.3	437.0	449.8	455.2	458.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	316.3	358.0	391.5	416.0	431.5	439.2	443.6
115°	291.8	327.4	356.6	380.6	398.9	408.7	411.1
117.5°	277.8	305.8	330.6	351.1	366.4	376.3	378.2
120°	271.7	296.1	317.7	335.0	348.4	356.4	359.7
122.5°	267.9	290.0	308.9	323.6	335.0	341.7	345.1
125°	261.7	282.7	299.5	311.6	320.5	326.2	328.0
127.5°	254.4	275.4	291.3	303.5	311.3	316.2	318.1
130°	248.7	269.3	285.4	297.9	305.5	310.4	312.2
132.5°	242.0	262.3	278.4	290.6	299.2	303.8	305.7
135°	232.2	250.7	266.0	278.1	286.6	291.5	293.3
137.5°	222.7	238.4	252.1	263.6	271.9	276.0	278.1
140°	216.6	230.3	243.1	253.8	260.5	264.8	267.2
142.5°	211.5	223.3	234.4	243.8	250.0	253.8	255.5
145°	204.5	213.6	222.1	229.7	234.9	238.0	239.4
147.5°	198.4	205.7	212.4	218.0	222.5	224.7	225.3
150°	194.8	200.9	206.3	211.2	215.2	217.0	217.2
152.5°	191.1	196.7	201.2	205.3	208.5	209.7	210.0
155°	185.9	190.5	194.2	197.2	199.6	200.5	200.5
157.5°	180.8	184.7	187.6	189.9	191.7	192.3	192.3
160°	177.4	180.7	183.2	185.0	186.8	187.2	187.2
162.5°	174.3	176.8	179.1	180.4	182.2	182.5	182.3
165°	169.5	171.6	173.1	174.4	175.6	175.3	175.0
167.5°	165.5	167.2	168.1	168.7	169.5	169.4	169.2
170°	162.8	164.0	165.0	165.6	165.8	165.6	165.6
172.5°	160.6	161.4	162.0	162.4	162.6	162.4	161.9
175°	157.6	158.3	158.3	158.3	158.9	158.3	157.6
177.5°	155.8	155.8	156.1	155.8	156.1	155.6	155.2
180°	154.9	154.9	154.9	154.9	154.9	154.9	154.9

(END OF REPORT)