

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: P333099

Luminaire Tested: **S124RDIW-S1195D770U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333099
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1195D770U835-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 770 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8081.9 lumens
Efficiency: N/A
Efficacy: 135.1 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

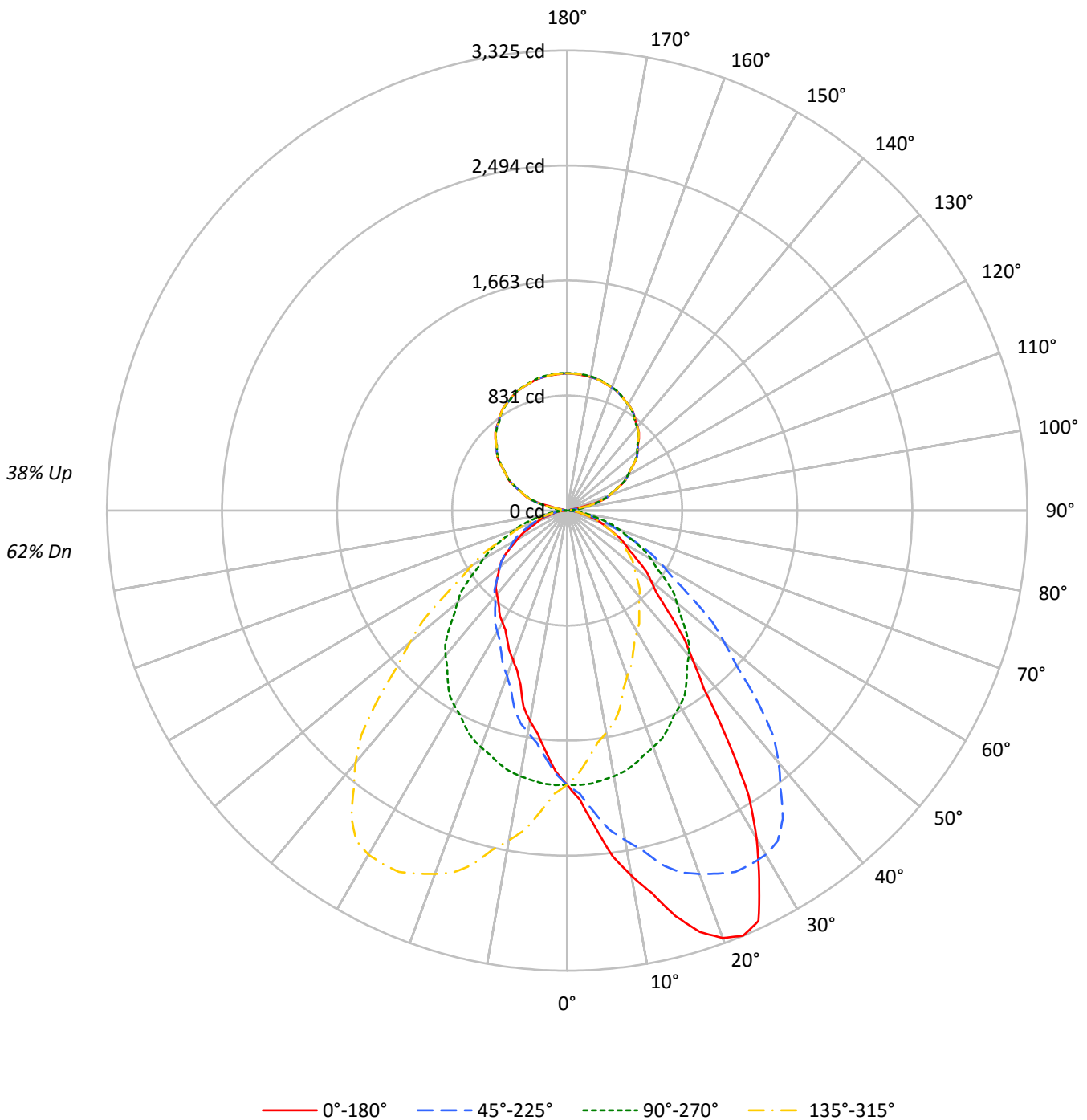
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	90	95	91	88	85	80	77	75	70	68	66	60	59	58	53
2	92	85	79	74	86	80	75	70	71	67	63	62	59	56	54	52	50	46
3	85	75	68	63	79	71	65	60	63	58	54	55	51	48	48	45	43	39
4	78	67	59	53	73	63	56	51	56	51	46	50	45	42	43	40	37	34
5	72	60	52	46	67	57	50	44	51	45	40	45	40	37	39	36	33	30
6	66	54	46	40	62	51	44	39	46	40	35	41	36	32	36	32	29	27
7	61	49	41	36	57	47	39	34	42	36	31	37	32	29	33	29	26	24
8	57	45	37	32	53	42	35	31	38	32	28	34	29	26	30	26	23	21
9	53	41	34	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15998	15998	15998	15998
5°	18556	16046	14182	16046
10°	21952	15976	12658	15976
15°	25357	15828	10877	15828
20°	28233	15625	9836	15625
25°	29144	15425	9132	15425
30°	25513	15183	8708	15183
35°	19860	14824	8451	14824
40°	14893	14413	8313	14413
45°	11758	13755	8241	13755
50°	9927	12995	8002	12995
55°	8653	12159	7574	12159
60°	7786	11292	6704	11292
65°	6863	10355	5765	10355
70°	6182	9385	5202	9385
75°	5181	8319	4432	8319
80°	4379	7090	4156	7090
85°	3696	5548	3696	5548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	2.4
10°-20°	579.2	7.2
20°-30°	905.9	11.2
30°-40°	1007.1	12.5
40°-50°	893.5	11.1
50°-60°	696.2	8.6
60°-70°	455.8	5.6
70°-80°	224.2	2.8
80°-90°	58.2	0.7
90°-100°	33.9	0.4
100°-110°	216.4	2.7
110°-120°	414.0	5.1
120°-130°	525.6	6.5
130°-140°	562.3	7.0
140°-150°	525.8	6.5
150°-160°	424.0	5.2
160°-170°	273.5	3.4
170°-180°	94.3	1.2
0°-30°	1677.1	20.8
0°-40°	2684.1	33.2
0°-60°	4273.8	52.9
0°-90°	5012.0	62.0
90°-120°	664.4	8.2
90°-150°	2278.1	28.2
90°-180°	3070.0	38.0
0°-180°	8081.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1982	1982	1982	1982	1982	
5°	2290	1980	1750	1980	2290	232
15°	3034	1894	1301	1894	3034	863
25°	3272	1732	1025	1732	3272	1452
35°	2015	1504	858	1504	2015	1263
45°	1030	1205	722	1205	1030	816
55°	615	864	538	864	615	559
65°	359	542	302	542	359	361
75°	166	267	142	267	166	183
85°	40	60	40	60	40	46
90°	22	2	22	2	22	11
95°	22	41	22	41	22	17
105°	212	223	212	223	212	185
115°	420	417	420	417	420	416
125°	591	586	591	586	591	526
135°	733	727	733	727	733	564
145°	843	839	843	839	843	527
155°	919	920	919	920	919	424
165°	966	970	966	970	966	273
175°	986	992	986	992	986	94
180°	992	992	992	992	992	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2090.2	2096.0	2090.2	2089.6	2083.2	2081.3	2078.7	2070.4	2055.1	2046.2	2048.1
5°	2289.8	2309.8	2298.6	2297.0	2279.5	2261.9	2250.7	2225.2	2198.0	2179.7	2164.5
7.5°	2520.7	2532.2	2525.2	2514.0	2485.6	2469.5	2443.6	2409.9	2361.2	2324.0	2290.0
10°	2677.9	2687.4	2684.3	2663.5	2642.7	2600.4	2576.5	2529.4	2467.9	2419.2	2373.7
12.5°	2832.4	2842.7	2814.6	2815.5	2776.2	2742.9	2704.9	2645.6	2574.6	2511.8	2454.8
15°	3034.0	3021.2	3021.2	3005.2	2961.3	2915.0	2875.9	2813.6	2724.2	2649.1	2570.1
17.5°	3191.7	3196.2	3189.6	3152.0	3117.5	3069.6	2997.9	2925.2	2842.2	2741.4	2660.6
20°	3286.3	3286.3	3279.1	3253.5	3208.8	3157.7	3080.3	3001.2	2895.8	2794.4	2703.4
22.5°	3324.6	3327.1	3318.7	3297.6	3257.4	3207.5	3141.6	3061.3	2952.7	2838.5	2725.8
25°	3271.9	3287.1	3288.6	3283.1	3271.1	3240.7	3184.1	3101.8	3004.4	2880.7	2759.3
27.5°	3003.9	3023.1	3039.9	3067.5	3104.2	3123.4	3125.9	3084.1	2999.1	2880.0	2757.9
30°	2736.9	2752.9	2804.8	2872.7	2925.4	2973.3	3014.8	3026.0	2978.1	2871.1	2742.5
32.5°	2440.6	2462.3	2514.2	2587.2	2675.0	2756.1	2849.4	2896.9	2895.7	2831.5	2712.5
35°	2015.2	2031.2	2079.1	2155.7	2261.1	2381.7	2529.4	2644.3	2722.6	2717.0	2644.3
37.5°	1625.2	1643.3	1691.7	1755.2	1857.4	2006.7	2149.6	2308.0	2452.7	2534.0	2509.7
40°	1413.2	1414.0	1461.1	1526.6	1622.4	1752.5	1908.2	2083.8	2245.1	2376.9	2402.4
42.5°	1245.8	1246.0	1277.1	1347.7	1416.7	1539.2	1687.8	1862.2	2051.0	2203.1	2270.8
45°	1029.9	1037.1	1062.7	1105.0	1159.3	1263.1	1382.0	1544.1	1755.7	1936.1	2048.7
47.5°	872.2	882.7	899.0	933.5	976.8	1045.9	1144.3	1289.9	1462.0	1660.5	1820.7
50°	790.4	792.0	812.8	831.9	869.5	924.6	1010.8	1132.1	1290.2	1481.0	1659.1
52.5°	720.2	719.8	732.3	756.6	787.1	830.0	899.6	1010.1	1150.3	1321.4	1505.2
55°	614.8	618.8	628.3	647.5	670.7	701.0	756.1	839.1	949.3	1095.4	1262.3
57.5°	534.6	536.7	544.2	552.3	573.6	595.6	637.0	694.6	787.6	907.2	1062.7
60°	482.2	483.0	485.4	497.4	514.2	534.9	562.9	611.6	689.8	799.2	922.2
62.5°	431.1	432.6	436.3	445.0	458.0	472.3	501.6	540.7	605.5	698.9	809.7
65°	359.3	360.1	365.7	368.9	379.2	392.0	413.6	439.9	484.6	562.9	646.7
67.5°	300.2	300.2	300.5	304.8	312.0	320.5	333.4	354.5	388.2	436.3	510.2
70°	261.9	261.9	263.5	265.9	269.9	277.0	284.2	300.2	325.0	364.1	420.8
72.5°	226.1	226.7	228.3	228.8	230.9	236.8	242.1	252.3	270.7	300.2	346.0
75°	166.1	168.5	172.5	175.7	179.6	178.8	184.4	190.8	196.4	214.0	240.3
77.5°	123.6	122.3	122.8	125.5	126.0	126.8	130.8	135.7	139.9	148.2	157.6
80°	94.2	94.2	96.6	97.4	96.6	97.4	101.4	103.8	105.4	108.6	117.4
82.5°	71.2	72.5	71.7	72.5	73.0	73.8	77.1	77.6	79.2	80.5	84.2
85°	39.9	40.7	41.5	39.9	39.9	39.9	41.5	42.3	43.9	43.1	44.7
87.5°	18.5	17.8	18.4	18.3	18.9	18.1	18.6	19.6	18.2	18.6	18.3
90°	22.3	21.9	21.6	21.3	20.9	20.3	19.3	18.3	17.3	16.3	15.0
92.5°	20.5	20.4	20.4	20.3	20.2	19.7	18.7	17.7	16.7	15.7	14.4
95°	21.5	21.4	21.2	21.0	20.9	20.3	19.3	18.3	17.3	16.3	16.2
97.5°	20.8	20.6	20.5	20.3	20.1	20.0	19.9	19.8	19.7	19.6	38.0
100°	20.8	20.6	20.5	20.3	20.1	21.4	24.2	27.1	29.9	32.7	55.4
102.5°	21.4	21.3	21.3	21.3	21.2	36.4	66.6	96.9	127.1	157.4	160.3
105°	211.6	217.5	223.4	229.4	235.3	237.5	236.0	234.6	233.1	231.6	230.8
107.5°	294.8	294.2	293.6	293.0	292.3	291.7	290.9	290.2	289.5	288.7	287.6
110°	331.1	330.6	330.1	329.6	329.1	328.7	328.3	328.0	327.7	327.3	326.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	367.3	366.7	366.0	365.4	364.8	364.5	364.6	364.6	364.7	364.8	364.3
115°	420.1	420.1	420.1	420.1	420.1	420.0	419.6	419.3	419.0	418.6	418.8
117.5°	473.9	473.9	474.0	474.1	474.1	474.2	474.3	474.3	474.4	474.5	474.1
120°	507.7	508.1	508.4	508.7	509.0	509.0	508.7	508.4	508.1	507.7	507.9
122.5°	541.0	541.3	541.6	542.0	542.3	542.4	542.2	542.0	541.8	541.6	541.3
125°	590.9	590.7	590.5	590.4	590.2	589.9	589.4	588.9	588.4	587.9	588.2
127.5°	634.7	634.8	634.9	635.1	635.2	635.3	635.4	635.5	635.6	635.7	634.9
130°	664.3	664.3	664.3	664.3	664.3	664.3	664.1	663.9	663.8	663.6	663.1
132.5°	691.7	691.8	691.9	692.1	692.2	692.2	692.0	691.8	691.7	691.5	690.9
135°	732.6	732.3	732.0	731.6	731.3	731.0	730.7	730.3	730.0	729.7	729.0
137.5°	767.7	767.8	767.9	768.0	768.1	767.9	767.6	767.2	766.8	766.5	765.8
140°	792.0	791.9	791.7	791.5	791.4	791.0	790.5	790.0	789.5	789.1	788.7
142.5°	812.2	812.2	812.1	812.1	812.1	811.9	811.5	811.2	810.8	810.4	810.2
145°	843.2	842.9	842.6	842.2	841.9	841.7	841.5	841.3	841.2	841.0	841.0
147.5°	868.9	868.8	868.6	868.4	868.3	868.1	868.0	867.8	867.7	867.6	867.7
150°	885.5	885.4	885.2	885.1	884.9	884.8	884.8	884.8	884.8	884.8	885.0
152.5°	899.8	899.9	900.0	900.1	900.2	900.1	899.8	899.6	899.3	899.1	899.4
155°	919.0	919.4	919.9	920.4	920.9	920.8	920.2	919.5	918.9	918.2	918.7
157.5°	935.0	935.8	936.7	937.6	938.4	938.4	937.6	936.7	935.8	935.0	935.5
160°	945.7	946.7	947.7	948.6	949.6	949.6	948.6	947.7	946.7	945.7	945.8
162.5°	954.0	955.1	956.2	957.4	958.5	958.5	957.5	956.6	955.6	954.6	954.7
165°	965.7	967.2	968.7	970.2	971.7	971.7	970.4	969.1	967.8	966.5	966.5
167.5°	974.5	976.1	977.8	979.4	981.1	981.2	979.7	978.3	976.8	975.4	975.5
170°	979.8	981.5	983.1	984.8	986.4	986.6	985.3	983.9	982.6	981.3	981.1
172.5°	982.8	984.6	986.4	988.1	989.9	990.1	988.8	987.5	986.2	984.9	984.7
175°	986.5	988.5	990.5	992.4	994.4	994.7	993.2	991.7	990.2	988.7	988.6
177.5°	988.9	990.5	992.0	993.6	995.2	995.5	994.4	993.4	992.3	991.2	991.0
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2041.7	2032.8	2028.3	2018.1	2005.9	1999.5	1993.8	1985.5	1974.6	1963.1	1954.8
5°	2145.3	2126.2	2102.2	2073.5	2047.9	2023.2	2001.6	1980.1	1955.3	1929.8	1904.2
7.5°	2251.7	2214.0	2173.3	2126.2	2080.3	2038.7	2000.3	1963.6	1922.1	1884.9	1851.0
10°	2325.8	2274.7	2218.0	2158.1	2098.2	2046.3	1995.2	1948.9	1897.8	1852.3	1814.0
12.5°	2385.8	2325.8	2257.6	2183.0	2111.0	2048.2	1989.5	1929.1	1871.0	1821.7	1770.6
15°	2485.4	2403.2	2311.4	2222.0	2128.6	2043.1	1964.1	1893.8	1827.6	1758.1	1709.4
17.5°	2554.0	2456.4	2344.8	2237.3	2127.0	2026.2	1935.0	1851.4	1774.9	1704.0	1646.0
20°	2594.8	2487.0	2363.3	2241.1	2117.4	2009.6	1911.4	1818.8	1739.7	1663.1	1603.2
22.5°	2617.8	2498.5	2363.3	2235.4	2107.2	1990.4	1882.6	1786.2	1700.1	1623.5	1557.2
25°	2625.2	2497.4	2359.3	2212.4	2071.9	1948.1	1836.3	1731.7	1635.9	1559.3	1489.0
27.5°	2615.0	2464.5	2323.1	2172.3	2027.3	1896.9	1779.5	1669.6	1573.7	1491.4	1419.4
30°	2599.6	2438.3	2286.6	2130.2	1983.2	1857.9	1734.1	1628.8	1529.0	1443.5	1370.9
32.5°	2566.4	2406.4	2243.2	2082.9	1934.1	1804.9	1687.5	1581.5	1483.6	1396.3	1319.1
35°	2500.6	2338.5	2161.3	1996.8	1850.7	1716.6	1606.4	1504.2	1410.8	1317.4	1235.9
37.5°	2413.9	2248.3	2072.0	1891.9	1745.6	1619.0	1517.9	1422.0	1330.8	1245.5	1155.3
40°	2332.2	2181.3	1999.2	1820.4	1670.3	1548.1	1454.7	1367.7	1275.9	1191.2	1101.0
42.5°	2233.2	2104.6	1920.7	1741.2	1593.0	1475.3	1388.3	1303.2	1219.7	1137.6	1043.5
45°	2067.9	1970.5	1798.0	1625.6	1476.3	1359.7	1279.9	1204.8	1131.3	1053.1	964.5
47.5°	1878.5	1812.5	1663.7	1487.1	1349.0	1244.1	1167.0	1105.6	1043.5	965.3	887.5
50°	1746.9	1704.6	1560.9	1399.6	1267.9	1171.3	1092.2	1034.7	982.8	907.8	838.3
52.5°	1606.4	1583.9	1462.5	1308.3	1181.0	1086.3	1018.8	967.0	914.5	852.2	787.2
55°	1392.4	1404.4	1301.4	1168.1	1048.3	968.5	907.0	863.9	819.2	766.5	716.2
57.5°	1173.7	1217.4	1148.3	1031.2	919.0	845.2	798.9	762.6	725.1	681.4	638.4
60°	1042.7	1079.4	1040.3	937.3	839.1	770.5	727.4	699.4	661.9	622.0	589.2
62.5°	915.0	954.3	931.1	847.9	756.7	697.7	659.6	633.6	605.7	570.9	536.9
65°	754.5	780.0	768.9	711.4	646.7	596.4	561.3	542.1	516.6	491.0	460.7
67.5°	577.9	627.2	620.7	590.2	534.3	495.0	472.0	455.1	431.8	412.8	392.2
70°	475.1	520.6	519.8	495.0	464.7	427.9	412.0	397.6	376.8	358.5	341.7
72.5°	388.8	430.5	436.7	417.7	397.0	369.2	353.9	344.0	323.8	311.2	297.6
75°	272.3	302.6	310.6	310.6	301.0	286.6	273.1	266.7	252.3	241.1	233.1
77.5°	178.5	197.7	210.1	213.0	214.5	209.7	198.5	194.0	183.0	179.0	171.3
80°	126.1	138.9	153.3	158.1	162.1	160.5	155.7	152.5	142.1	138.1	134.9
82.5°	87.2	94.2	106.0	116.6	115.4	119.6	115.4	112.9	105.1	103.6	100.4
85°	45.5	46.3	47.9	55.1	59.1	60.7	61.5	59.9	57.5	57.5	51.9
87.5°	18.1	17.2	18.2	17.9	18.1	20.3	21.9	22.2	20.6	19.1	17.5
90°	13.7	12.4	11.1	9.5	7.7	5.9	4.0	2.2	4.0	5.9	7.7
92.5°	13.1	11.8	10.5	9.7	9.6	9.6	9.5	9.4	9.5	9.6	9.6
95°	16.0	15.8	15.7	18.4	24.0	29.6	35.2	40.8	35.2	29.6	24.0
97.5°	56.4	74.8	93.2	100.7	97.2	93.7	90.2	86.7	90.2	93.7	97.2
100°	78.2	101.0	123.7	133.6	130.6	127.7	124.7	121.7	124.7	127.7	130.6
102.5°	163.3	166.3	169.2	169.6	167.5	165.3	163.1	160.9	163.1	165.3	167.5
105°	229.9	229.1	228.3	227.4	226.4	225.4	224.4	223.4	224.4	225.4	226.4
107.5°	286.5	285.4	284.3	283.5	283.0	282.5	282.0	281.5	282.0	282.5	283.0
110°	325.4	324.4	323.4	322.6	322.2	321.7	321.2	320.7	321.2	321.7	322.2



TEST NUMBER: P333099

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	363.8	363.4	362.9	362.2	361.3	360.5	359.6	358.7	359.6	360.5	361.3
115°	419.0	419.1	419.3	419.1	418.6	418.2	417.7	417.2	417.7	418.2	418.6
117.5°	473.7	473.4	473.0	472.5	471.8	471.2	470.5	469.9	470.5	471.2	471.8
120°	508.1	508.2	508.4	508.1	507.5	506.8	506.2	505.5	506.2	506.8	507.5
122.5°	541.1	540.9	540.6	540.3	539.9	539.5	539.1	538.8	539.1	539.5	539.9
125°	588.6	588.9	589.2	589.0	588.4	587.7	587.1	586.4	587.1	587.7	588.4
127.5°	634.2	633.4	632.7	632.2	632.0	631.9	631.7	631.5	631.7	631.9	632.0
130°	662.6	662.1	661.6	661.3	661.1	661.0	660.8	660.6	660.8	661.0	661.1
132.5°	690.3	689.6	689.0	688.5	688.2	688.0	687.7	687.4	687.7	688.0	688.2
135°	728.3	727.7	727.0	726.8	726.9	727.1	727.3	727.4	727.3	727.1	726.9
137.5°	765.0	764.3	763.6	763.2	763.1	763.1	763.0	762.9	763.0	763.1	763.1
140°	788.4	788.1	787.7	787.4	787.1	786.7	786.4	786.1	786.4	786.7	787.1
142.5°	810.0	809.8	809.6	809.2	808.6	808.1	807.5	806.9	807.5	808.1	808.6
145°	841.0	841.0	841.0	840.8	840.3	839.8	839.3	838.8	839.3	839.8	840.3
147.5°	867.9	868.1	868.2	867.9	866.9	866.0	865.1	864.2	865.1	866.0	866.9
150°	885.1	885.3	885.5	885.2	884.6	883.9	883.2	882.6	883.2	883.9	884.6
152.5°	899.7	899.9	900.2	900.1	899.6	899.1	898.5	898.0	898.5	899.1	899.6
155°	919.2	919.7	920.2	920.4	920.2	920.0	919.9	919.7	919.9	920.0	920.2
157.5°	936.1	936.7	937.2	937.6	937.7	937.8	937.9	938.0	937.9	937.8	937.7
160°	946.0	946.2	946.3	946.7	947.2	947.7	948.1	948.6	948.1	947.7	947.2
162.5°	954.9	955.1	955.2	955.6	956.3	956.9	957.5	958.1	957.5	956.9	956.3
165°	966.5	966.5	966.5	966.9	967.7	968.5	969.3	970.2	969.3	968.5	967.7
167.5°	975.6	975.7	975.8	976.2	977.1	978.0	978.8	979.7	978.8	978.0	977.1
170°	981.0	980.8	980.6	981.1	982.0	983.0	984.0	985.0	984.0	983.0	982.0
172.5°	984.5	984.4	984.2	984.6	985.6	986.6	987.6	988.6	987.6	986.6	985.6
175°	988.4	988.2	988.1	988.5	989.5	990.5	991.4	992.4	991.4	990.5	989.5
177.5°	990.7	990.5	990.2	990.5	991.4	992.4	993.3	994.2	993.3	992.4	991.4
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



TEST NUMBER: P333099

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1945.9	1939.5	1931.2	1921.6	1910.1	1899.9	1895.4	1899.3	1901.2	1896.1	1895.4
5°	1886.6	1866.7	1850.7	1826.8	1807.6	1791.6	1780.5	1775.7	1777.3	1764.5	1761.3
7.5°	1820.1	1796.4	1770.2	1741.8	1715.3	1691.8	1679.5	1672.8	1659.3	1653.5	1643.8
10°	1777.3	1745.3	1719.8	1686.2	1655.9	1628.0	1614.4	1603.2	1589.6	1583.2	1569.7
12.5°	1733.2	1696.1	1668.0	1633.2	1602.2	1568.6	1555.6	1534.9	1513.6	1500.2	1482.8
15°	1671.1	1626.4	1592.0	1550.5	1513.8	1475.5	1441.1	1402.8	1388.4	1358.1	1340.5
17.5°	1598.4	1553.1	1510.6	1454.9	1398.2	1350.6	1314.0	1277.3	1255.3	1235.9	1227.0
20°	1550.5	1509.0	1449.9	1385.2	1322.2	1269.5	1239.9	1216.0	1192.0	1178.5	1168.9
22.5°	1505.2	1452.1	1383.5	1313.7	1250.6	1209.4	1184.4	1159.8	1140.3	1127.4	1114.6
25°	1429.2	1359.7	1287.0	1207.2	1164.1	1128.2	1101.0	1081.0	1069.1	1052.3	1045.9
27.5°	1351.1	1266.9	1186.8	1133.1	1088.2	1055.3	1031.7	1016.7	1001.5	990.8	982.5
30°	1291.0	1205.6	1133.7	1082.6	1037.1	1010.0	990.8	973.3	961.3	952.5	946.1
32.5°	1231.6	1146.2	1085.8	1030.9	995.0	968.5	948.0	934.9	925.5	914.2	910.3
35°	1145.7	1069.9	1017.2	967.7	930.9	907.0	891.0	877.5	869.5	866.3	863.9
37.5°	1063.2	1001.0	944.4	903.8	871.1	852.2	833.4	826.7	821.2	815.5	818.1
40°	1010.8	952.5	902.2	859.1	832.7	812.0	800.8	792.8	788.0	788.0	788.0
42.5°	965.4	908.4	859.4	820.8	794.4	776.9	764.4	757.7	756.1	755.5	759.3
45°	895.0	842.3	792.8	760.9	738.5	721.0	713.8	708.2	708.2	711.4	712.2
47.5°	825.2	775.9	736.1	700.4	679.9	668.9	662.7	659.8	660.1	663.3	667.0
50°	782.4	733.7	694.6	662.7	643.5	633.1	627.5	626.0	627.5	627.5	633.1
52.5°	735.8	692.2	653.7	626.9	605.2	595.5	592.4	590.2	591.1	593.7	596.1
55°	667.5	628.3	591.6	566.1	550.1	543.7	536.5	537.3	535.7	537.3	537.3
57.5°	599.0	563.8	529.7	509.4	495.3	486.1	478.2	480.5	478.1	477.8	476.5
60°	554.9	516.6	489.4	471.1	455.1	447.1	439.9	441.5	439.1	437.5	434.3
62.5°	507.0	475.1	449.2	431.5	418.7	409.4	402.2	400.6	395.1	389.6	382.6
65°	437.5	411.2	388.0	371.3	359.3	352.1	346.5	341.7	329.7	317.0	310.6
67.5°	370.0	351.0	329.4	315.2	305.5	296.1	285.4	277.2	266.0	259.0	255.0
70°	326.5	308.2	289.8	276.2	265.9	257.1	245.1	239.5	231.5	228.3	224.4
72.5°	285.0	267.9	250.9	238.6	227.5	220.7	211.3	205.7	202.2	200.9	196.9
75°	222.0	208.4	195.6	184.4	175.7	170.9	166.9	162.9	161.3	154.1	150.1
77.5°	161.9	153.0	145.0	137.0	130.8	127.6	119.9	115.3	112.6	109.2	108.4
80°	126.1	119.8	111.8	107.0	98.2	95.0	91.8	91.0	90.2	89.4	88.6
82.5°	94.9	88.5	80.5	77.6	75.2	73.3	71.4	70.6	69.8	70.3	70.1
85°	47.9	44.7	44.7	43.9	43.1	42.3	41.5	41.5	40.7	41.5	40.7
87.5°	17.9	17.5	17.8	16.8	17.7	18.0	17.5	17.7	18.6	17.5	17.6
90°	9.5	11.1	12.4	13.7	15.0	16.3	17.3	18.3	19.3	20.3	20.9
92.5°	9.7	10.5	11.8	13.1	14.4	15.7	16.7	17.7	18.7	19.7	20.2
95°	18.4	15.7	15.8	16.0	16.2	16.3	17.3	18.3	19.3	20.3	20.9
97.5°	100.7	93.2	74.8	56.4	38.0	19.6	19.7	19.8	19.9	20.0	20.1
100°	133.6	123.7	101.0	78.2	55.4	32.7	29.9	27.1	24.2	21.4	20.1
102.5°	169.6	169.2	166.3	163.3	160.3	157.4	127.1	96.9	66.6	36.4	21.2
105°	227.4	228.3	229.1	229.9	230.8	231.6	233.1	234.6	236.0	237.5	235.3
107.5°	283.5	284.3	285.4	286.5	287.6	288.7	289.5	290.2	290.9	291.7	292.3
110°	322.6	323.4	324.4	325.4	326.4	327.3	327.7	328.0	328.3	328.7	329.1



TEST NUMBER: P333099

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	362.2	362.9	363.4	363.8	364.3	364.8	364.7	364.6	364.6	364.5	364.8
115°	419.1	419.3	419.1	419.0	418.8	418.6	419.0	419.3	419.6	420.0	420.1
117.5°	472.5	473.0	473.4	473.7	474.1	474.5	474.4	474.3	474.3	474.2	474.1
120°	508.1	508.4	508.2	508.1	507.9	507.7	508.1	508.4	508.7	509.0	509.0
122.5°	540.3	540.6	540.9	541.1	541.3	541.6	541.8	542.0	542.2	542.4	542.3
125°	589.0	589.2	588.9	588.6	588.2	587.9	588.4	588.9	589.4	589.9	590.2
127.5°	632.2	632.7	633.4	634.2	634.9	635.7	635.6	635.5	635.4	635.3	635.2
130°	661.3	661.6	662.1	662.6	663.1	663.6	663.8	663.9	664.1	664.3	664.3
132.5°	688.5	689.0	689.6	690.3	690.9	691.5	691.7	691.8	692.0	692.2	692.2
135°	726.8	727.0	727.7	728.3	729.0	729.7	730.0	730.3	730.7	731.0	731.3
137.5°	763.2	763.6	764.3	765.0	765.8	766.5	766.8	767.2	767.6	767.9	768.1
140°	787.4	787.7	788.1	788.4	788.7	789.1	789.5	790.0	790.5	791.0	791.4
142.5°	809.2	809.6	809.8	810.0	810.2	810.4	810.8	811.2	811.5	811.9	812.1
145°	840.8	841.0	841.0	841.0	841.0	841.0	841.2	841.3	841.5	841.7	841.9
147.5°	867.9	868.2	868.1	867.9	867.7	867.6	867.7	867.8	868.0	868.1	868.3
150°	885.2	885.5	885.3	885.1	885.0	884.8	884.8	884.8	884.8	884.8	884.9
152.5°	900.1	900.2	899.9	899.7	899.4	899.1	899.3	899.6	899.8	900.1	900.2
155°	920.4	920.2	919.7	919.2	918.7	918.2	918.9	919.5	920.2	920.8	920.9
157.5°	937.6	937.2	936.7	936.1	935.5	935.0	935.8	936.7	937.6	938.4	938.4
160°	946.7	946.3	946.2	946.0	945.8	945.7	946.7	947.7	948.6	949.6	949.6
162.5°	955.6	955.2	955.1	954.9	954.7	954.6	955.6	956.6	957.5	958.5	958.5
165°	966.9	966.5	966.5	966.5	966.5	966.5	967.8	969.1	970.4	971.7	971.7
167.5°	976.2	975.8	975.7	975.6	975.5	975.4	976.8	978.3	979.7	981.2	981.1
170°	981.1	980.6	980.8	981.0	981.1	981.3	982.6	983.9	985.3	986.6	986.4
172.5°	984.6	984.2	984.4	984.5	984.7	984.9	986.2	987.5	988.8	990.1	989.9
175°	988.5	988.1	988.2	988.4	988.6	988.7	990.2	991.7	993.2	994.7	994.4
177.5°	990.5	990.2	990.5	990.7	991.0	991.2	992.3	993.4	994.4	995.5	995.2
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



TEST NUMBER: P333099

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1891.6	1892.9	1888.4	1887.1	1888.4	1892.9	1891.6	1895.4	1896.1	1901.2	1899.3
5°	1754.9	1753.3	1749.3	1750.1	1749.3	1753.3	1754.9	1761.3	1764.5	1777.3	1775.7
7.5°	1638.0	1631.8	1633.5	1627.2	1633.5	1631.8	1638.0	1643.8	1653.5	1659.3	1672.8
10°	1566.5	1557.7	1550.5	1544.1	1550.5	1557.7	1566.5	1569.7	1583.2	1589.6	1603.2
12.5°	1468.8	1461.2	1451.5	1453.4	1451.5	1461.2	1468.8	1482.8	1500.2	1513.6	1534.9
15°	1330.1	1318.2	1299.0	1301.4	1299.0	1318.2	1330.1	1340.5	1358.1	1388.4	1402.8
17.5°	1212.8	1212.9	1204.2	1206.2	1204.2	1212.9	1212.8	1227.0	1235.9	1255.3	1277.3
20°	1152.1	1146.5	1147.3	1144.9	1147.3	1146.5	1152.1	1168.9	1178.5	1192.0	1216.0
22.5°	1109.9	1103.1	1097.5	1092.5	1097.5	1103.1	1109.9	1114.6	1127.4	1140.3	1159.8
25°	1038.7	1033.9	1026.8	1025.2	1026.8	1033.9	1038.7	1045.9	1052.3	1069.1	1081.0
27.5°	976.1	975.2	972.3	968.6	972.3	975.2	976.1	982.5	990.8	1001.5	1016.7
30°	939.7	938.1	936.5	934.1	936.5	938.1	939.7	946.1	952.5	961.3	973.3
32.5°	907.2	906.2	904.6	904.8	904.6	906.2	907.2	910.3	914.2	925.5	934.9
35°	860.7	859.9	858.3	857.5	858.3	859.9	860.7	863.9	866.3	869.5	877.5
37.5°	817.3	819.3	818.4	818.2	818.4	819.3	817.3	818.1	815.5	821.2	826.7
40°	787.2	788.0	789.6	788.8	789.6	788.0	787.2	788.0	788.0	788.0	792.8
42.5°	762.3	762.5	764.7	762.0	764.7	762.5	762.3	759.3	755.5	756.1	757.7
45°	717.8	722.6	721.8	721.8	721.8	722.6	717.8	712.2	711.4	708.2	708.2
47.5°	669.1	673.2	674.3	674.2	674.3	673.2	669.1	667.0	663.3	660.1	659.8
50°	637.1	635.5	637.9	637.1	637.9	635.5	637.1	633.1	627.5	627.5	626.0
52.5°	598.2	598.5	598.3	597.5	598.3	598.5	598.2	596.1	593.7	591.1	590.2
55°	538.1	538.9	537.3	538.1	537.3	538.9	538.1	537.3	537.3	535.7	537.3
57.5°	473.0	469.1	470.7	468.8	470.7	469.1	473.0	476.5	477.8	478.1	480.5
60°	426.4	420.0	418.4	415.2	418.4	420.0	426.4	434.3	437.5	439.1	441.5
62.5°	374.0	369.5	364.1	366.6	364.1	369.5	374.0	382.6	389.6	395.1	400.6
65°	304.2	301.0	298.6	301.8	298.6	301.0	304.2	310.6	317.0	329.7	341.7
67.5°	251.8	250.1	250.1	248.5	250.1	250.1	251.8	255.0	259.0	266.0	277.2
70°	224.4	222.0	222.0	220.4	222.0	222.0	224.4	224.4	228.3	231.5	239.5
72.5°	196.2	193.9	194.5	193.5	194.5	193.9	196.2	196.9	200.9	202.2	205.7
75°	145.3	141.3	141.3	142.1	141.3	141.3	145.3	150.1	154.1	161.3	162.9
77.5°	108.4	107.6	108.7	107.3	108.7	107.6	108.4	108.4	109.2	112.6	115.3
80°	88.6	87.8	87.0	89.4	87.0	87.8	88.6	88.6	89.4	90.2	91.0
82.5°	68.8	68.7	68.5	71.5	68.5	68.7	68.8	70.1	70.3	69.8	70.6
85°	41.5	39.9	41.5	39.9	41.5	39.9	41.5	40.7	41.5	40.7	41.5
87.5°	18.9	18.4	17.8	18.5	17.8	18.4	18.9	17.6	17.5	18.6	17.7
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	20.9	20.3	19.3	18.3
92.5°	20.3	20.4	20.4	20.5	20.4	20.4	20.3	20.2	19.7	18.7	17.7
95°	21.0	21.2	21.4	21.5	21.4	21.2	21.0	20.9	20.3	19.3	18.3
97.5°	20.3	20.5	20.6	20.8	20.6	20.5	20.3	20.1	20.0	19.9	19.8
100°	20.3	20.5	20.6	20.8	20.6	20.5	20.3	20.1	21.4	24.2	27.1
102.5°	21.3	21.3	21.3	21.4	21.3	21.3	21.3	21.2	36.4	66.6	96.9
105°	229.4	223.4	217.5	211.6	217.5	223.4	229.4	235.3	237.5	236.0	234.6
107.5°	293.0	293.6	294.2	294.8	294.2	293.6	293.0	292.3	291.7	290.9	290.2
110°	329.6	330.1	330.6	331.1	330.6	330.1	329.6	329.1	328.7	328.3	328.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	365.4	366.0	366.7	367.3	366.7	366.0	365.4	364.8	364.5	364.6	364.6
115°	420.1	420.1	420.1	420.1	420.1	420.1	420.1	420.1	420.0	419.6	419.3
117.5°	474.1	474.0	473.9	473.9	473.9	474.0	474.1	474.1	474.2	474.3	474.3
120°	508.7	508.4	508.1	507.7	508.1	508.4	508.7	509.0	509.0	508.7	508.4
122.5°	542.0	541.6	541.3	541.0	541.3	541.6	542.0	542.3	542.4	542.2	542.0
125°	590.4	590.5	590.7	590.9	590.7	590.5	590.4	590.2	589.9	589.4	588.9
127.5°	635.1	634.9	634.8	634.7	634.8	634.9	635.1	635.2	635.3	635.4	635.5
130°	664.3	664.3	664.3	664.3	664.3	664.3	664.3	664.3	664.3	664.1	663.9
132.5°	692.1	691.9	691.8	691.7	691.8	691.9	692.1	692.2	692.2	692.0	691.8
135°	731.6	732.0	732.3	732.6	732.3	732.0	731.6	731.3	731.0	730.7	730.3
137.5°	768.0	767.9	767.8	767.7	767.8	767.9	768.0	768.1	767.9	767.6	767.2
140°	791.5	791.7	791.9	792.0	791.9	791.7	791.5	791.4	791.0	790.5	790.0
142.5°	812.1	812.1	812.2	812.2	812.2	812.1	812.1	812.1	811.9	811.5	811.2
145°	842.2	842.6	842.9	843.2	842.9	842.6	842.2	841.9	841.7	841.5	841.3
147.5°	868.4	868.6	868.8	868.9	868.8	868.6	868.4	868.3	868.1	868.0	867.8
150°	885.1	885.2	885.4	885.5	885.4	885.2	885.1	884.9	884.8	884.8	884.8
152.5°	900.1	900.0	899.9	899.8	899.9	900.0	900.1	900.2	900.1	899.8	899.6
155°	920.4	919.9	919.4	919.0	919.4	919.9	920.4	920.9	920.8	920.2	919.5
157.5°	937.6	936.7	935.8	935.0	935.8	936.7	937.6	938.4	938.4	937.6	936.7
160°	948.6	947.7	946.7	945.7	946.7	947.7	948.6	949.6	949.6	948.6	947.7
162.5°	957.4	956.2	955.1	954.0	955.1	956.2	957.4	958.5	958.5	957.5	956.6
165°	970.2	968.7	967.2	965.7	967.2	968.7	970.2	971.7	971.7	970.4	969.1
167.5°	979.4	977.8	976.1	974.5	976.1	977.8	979.4	981.1	981.2	979.7	978.3
170°	984.8	983.1	981.5	979.8	981.5	983.1	984.8	986.4	986.6	985.3	983.9
172.5°	988.1	986.4	984.6	982.8	984.6	986.4	988.1	989.9	990.1	988.8	987.5
175°	992.4	990.5	988.5	986.5	988.5	990.5	992.4	994.4	994.7	993.2	991.7
177.5°	993.6	992.0	990.5	988.9	990.5	992.0	993.6	995.2	995.5	994.4	993.4
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1895.4	1899.9	1910.1	1921.6	1931.2	1939.5	1945.9	1954.8	1963.1	1974.6	1985.5
5°	1780.5	1791.6	1807.6	1826.8	1850.7	1866.7	1886.6	1904.2	1929.8	1955.3	1980.1
7.5°	1679.5	1691.8	1715.3	1741.8	1770.2	1796.4	1820.1	1851.0	1884.9	1922.1	1963.6
10°	1614.4	1628.0	1655.9	1686.2	1719.8	1745.3	1777.3	1814.0	1852.3	1897.8	1948.9
12.5°	1555.6	1568.6	1602.2	1633.2	1668.0	1696.1	1733.2	1770.6	1821.7	1871.0	1929.1
15°	1441.1	1475.5	1513.8	1550.5	1592.0	1626.4	1671.1	1709.4	1758.1	1827.6	1893.8
17.5°	1314.0	1350.6	1398.2	1454.9	1510.6	1553.1	1598.4	1646.0	1704.0	1774.9	1851.4
20°	1239.9	1269.5	1322.2	1385.2	1449.9	1509.0	1550.5	1603.2	1663.1	1739.7	1818.8
22.5°	1184.4	1209.4	1250.6	1313.7	1383.5	1452.1	1505.2	1557.2	1623.5	1700.1	1786.2
25°	1101.0	1128.2	1164.1	1207.2	1287.0	1359.7	1429.2	1489.0	1559.3	1635.9	1731.7
27.5°	1031.7	1055.3	1088.2	1133.1	1186.8	1266.9	1351.1	1419.4	1491.4	1573.7	1669.6
30°	990.8	1010.0	1037.1	1082.6	1133.7	1205.6	1291.0	1370.9	1443.5	1529.0	1628.8
32.5°	948.0	968.5	995.0	1030.9	1085.8	1146.2	1231.6	1319.1	1396.3	1483.6	1581.5
35°	891.0	907.0	930.9	967.7	1017.2	1069.9	1145.7	1235.9	1317.4	1410.8	1504.2
37.5°	833.4	852.2	871.1	903.8	944.4	1001.0	1063.2	1155.3	1245.5	1330.8	1422.0
40°	800.8	812.0	832.7	859.1	902.2	952.5	1010.8	1101.0	1191.2	1275.9	1367.7
42.5°	764.4	776.9	794.4	820.8	859.4	908.4	965.4	1043.5	1137.6	1219.7	1303.2
45°	713.8	721.0	738.5	760.9	792.8	842.3	895.0	964.5	1053.1	1131.3	1204.8
47.5°	662.7	668.9	679.9	700.4	736.1	775.9	825.2	887.5	965.3	1043.5	1105.6
50°	627.5	633.1	643.5	662.7	694.6	733.7	782.4	838.3	907.8	982.8	1034.7
52.5°	592.4	595.5	605.2	626.9	653.7	692.2	735.8	787.2	852.2	914.5	967.0
55°	536.5	543.7	550.1	566.1	591.6	628.3	667.5	716.2	766.5	819.2	863.9
57.5°	478.2	486.1	495.3	509.4	529.7	563.8	599.0	638.4	681.4	725.1	762.6
60°	439.9	447.1	455.1	471.1	489.4	516.6	554.9	589.2	622.0	661.9	699.4
62.5°	402.2	409.4	418.7	431.5	449.2	475.1	507.0	536.9	570.9	605.7	633.6
65°	346.5	352.1	359.3	371.3	388.0	411.2	437.5	460.7	491.0	516.6	542.1
67.5°	285.4	296.1	305.5	315.2	329.4	351.0	370.0	392.2	412.8	431.8	455.1
70°	245.1	257.1	265.9	276.2	289.8	308.2	326.5	341.7	358.5	376.8	397.6
72.5°	211.3	220.7	227.5	238.6	250.9	267.9	285.0	297.6	311.2	323.8	344.0
75°	166.9	170.9	175.7	184.4	195.6	208.4	222.0	233.1	241.1	252.3	266.7
77.5°	119.9	127.6	130.8	137.0	145.0	153.0	161.9	171.3	179.0	183.0	194.0
80°	91.8	95.0	98.2	107.0	111.8	119.8	126.1	134.9	138.1	142.1	152.5
82.5°	71.4	73.3	75.2	77.6	80.5	88.5	94.9	100.4	103.6	105.1	112.9
85°	41.5	42.3	43.1	43.9	44.7	44.7	47.9	51.9	57.5	57.5	59.9
87.5°	17.5	18.0	17.7	16.8	17.8	17.5	17.9	17.5	19.1	20.6	22.2
90°	17.3	16.3	15.0	13.7	12.4	11.1	9.5	7.7	5.9	4.0	2.2
92.5°	16.7	15.7	14.4	13.1	11.8	10.5	9.7	9.6	9.6	9.5	9.4
95°	17.3	16.3	16.2	16.0	15.8	15.7	18.4	24.0	29.6	35.2	40.8
97.5°	19.7	19.6	38.0	56.4	74.8	93.2	100.7	97.2	93.7	90.2	86.7
100°	29.9	32.7	55.4	78.2	101.0	123.7	133.6	130.6	127.7	124.7	121.7
102.5°	127.1	157.4	160.3	163.3	166.3	169.2	169.6	167.5	165.3	163.1	160.9
105°	233.1	231.6	230.8	229.9	229.1	228.3	227.4	226.4	225.4	224.4	223.4
107.5°	289.5	288.7	287.6	286.5	285.4	284.3	283.5	283.0	282.5	282.0	281.5
110°	327.7	327.3	326.4	325.4	324.4	323.4	322.6	322.2	321.7	321.2	320.7



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	364.7	364.8	364.3	363.8	363.4	362.9	362.2	361.3	360.5	359.6	358.7
115°	419.0	418.6	418.8	419.0	419.1	419.3	419.1	418.6	418.2	417.7	417.2
117.5°	474.4	474.5	474.1	473.7	473.4	473.0	472.5	471.8	471.2	470.5	469.9
120°	508.1	507.7	507.9	508.1	508.2	508.4	508.1	507.5	506.8	506.2	505.5
122.5°	541.8	541.6	541.3	541.1	540.9	540.6	540.3	539.9	539.5	539.1	538.8
125°	588.4	587.9	588.2	588.6	588.9	589.2	589.0	588.4	587.7	587.1	586.4
127.5°	635.6	635.7	634.9	634.2	633.4	632.7	632.2	632.0	631.9	631.7	631.5
130°	663.8	663.6	663.1	662.6	662.1	661.6	661.3	661.1	661.0	660.8	660.6
132.5°	691.7	691.5	690.9	690.3	689.6	689.0	688.5	688.2	688.0	687.7	687.4
135°	730.0	729.7	729.0	728.3	727.7	727.0	726.8	726.9	727.1	727.3	727.4
137.5°	766.8	766.5	765.8	765.0	764.3	763.6	763.2	763.1	763.1	763.0	762.9
140°	789.5	789.1	788.7	788.4	788.1	787.7	787.4	787.1	786.7	786.4	786.1
142.5°	810.8	810.4	810.2	810.0	809.8	809.6	809.2	808.6	808.1	807.5	806.9
145°	841.2	841.0	841.0	841.0	841.0	841.0	840.8	840.3	839.8	839.3	838.8
147.5°	867.7	867.6	867.7	867.9	868.1	868.2	867.9	866.9	866.0	865.1	864.2
150°	884.8	884.8	885.0	885.1	885.3	885.5	885.2	884.6	883.9	883.2	882.6
152.5°	899.3	899.1	899.4	899.7	899.9	900.2	900.1	899.6	899.1	898.5	898.0
155°	918.9	918.2	918.7	919.2	919.7	920.2	920.4	920.2	920.0	919.9	919.7
157.5°	935.8	935.0	935.5	936.1	936.7	937.2	937.6	937.7	937.8	937.9	938.0
160°	946.7	945.7	945.8	946.0	946.2	946.3	946.7	947.2	947.7	948.1	948.6
162.5°	955.6	954.6	954.7	954.9	955.1	955.2	955.6	956.3	956.9	957.5	958.1
165°	967.8	966.5	966.5	966.5	966.5	966.5	966.9	967.7	968.5	969.3	970.2
167.5°	976.8	975.4	975.5	975.6	975.7	975.8	976.2	977.1	978.0	978.8	979.7
170°	982.6	981.3	981.1	981.0	980.8	980.6	981.1	982.0	983.0	984.0	985.0
172.5°	986.2	984.9	984.7	984.5	984.4	984.2	984.6	985.6	986.6	987.6	988.6
175°	990.2	988.7	988.6	988.4	988.2	988.1	988.5	989.5	990.5	991.4	992.4
177.5°	992.3	991.2	991.0	990.7	990.5	990.2	990.5	991.4	992.4	993.3	994.2
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1993.8	1999.5	2005.9	2018.1	2028.3	2032.8	2041.7	2048.1	2046.2	2055.1	2070.4
5°	2001.6	2023.2	2047.9	2073.5	2102.2	2126.2	2145.3	2164.5	2179.7	2198.0	2225.2
7.5°	2000.3	2038.7	2080.3	2126.2	2173.3	2214.0	2251.7	2290.0	2324.0	2361.2	2409.9
10°	1995.2	2046.3	2098.2	2158.1	2218.0	2274.7	2325.8	2373.7	2419.2	2467.9	2529.4
12.5°	1989.5	2048.2	2111.0	2183.0	2257.6	2325.8	2385.8	2454.8	2511.8	2574.6	2645.6
15°	1964.1	2043.1	2128.6	2222.0	2311.4	2403.2	2485.4	2570.1	2649.1	2724.2	2813.6
17.5°	1935.0	2026.2	2127.0	2237.3	2344.8	2456.4	2554.0	2660.6	2741.4	2842.2	2925.2
20°	1911.4	2009.6	2117.4	2241.1	2363.3	2487.0	2594.8	2703.4	2794.4	2895.8	3001.2
22.5°	1882.6	1990.4	2107.2	2235.4	2363.3	2498.5	2617.8	2725.8	2838.5	2952.7	3061.3
25°	1836.3	1948.1	2071.9	2212.4	2359.3	2497.4	2625.2	2759.3	2880.7	3004.4	3101.8
27.5°	1779.5	1896.9	2027.3	2172.3	2323.1	2464.5	2615.0	2757.9	2880.0	2999.1	3084.1
30°	1734.1	1857.9	1983.2	2130.2	2286.6	2438.3	2599.6	2742.5	2871.1	2978.1	3026.0
32.5°	1687.5	1804.9	1934.1	2082.9	2243.2	2406.4	2566.4	2712.5	2831.5	2895.7	2896.9
35°	1606.4	1716.6	1850.7	1996.8	2161.3	2338.5	2500.6	2644.3	2717.0	2722.6	2644.3
37.5°	1517.9	1619.0	1745.6	1891.9	2072.0	2248.3	2413.9	2509.7	2534.0	2452.7	2308.0
40°	1454.7	1548.1	1670.3	1820.4	1999.2	2181.3	2332.2	2402.4	2376.9	2245.1	2083.8
42.5°	1388.3	1475.3	1593.0	1741.2	1920.7	2104.6	2233.2	2270.8	2203.1	2051.0	1862.2
45°	1279.9	1359.7	1476.3	1625.6	1798.0	1970.5	2067.9	2048.7	1936.1	1755.7	1544.1
47.5°	1167.0	1244.1	1349.0	1487.1	1663.7	1812.5	1878.5	1820.7	1660.5	1462.0	1289.9
50°	1092.2	1171.3	1267.9	1399.6	1560.9	1704.6	1746.9	1659.1	1481.0	1290.2	1132.1
52.5°	1018.8	1086.3	1181.0	1308.3	1462.5	1583.9	1606.4	1505.2	1321.4	1150.3	1010.1
55°	907.0	968.5	1048.3	1168.1	1301.4	1404.4	1392.4	1262.3	1095.4	949.3	839.1
57.5°	798.9	845.2	919.0	1031.2	1148.3	1217.4	1173.7	1062.7	907.2	787.6	694.6
60°	727.4	770.5	839.1	937.3	1040.3	1079.4	1042.7	922.2	799.2	689.8	611.6
62.5°	659.6	697.7	756.7	847.9	931.1	954.3	915.0	809.7	698.9	605.5	540.7
65°	561.3	596.4	646.7	711.4	768.9	780.0	754.5	646.7	562.9	484.6	439.9
67.5°	472.0	495.0	534.3	590.2	620.7	627.2	577.9	510.2	436.3	388.2	354.5
70°	412.0	427.9	464.7	495.0	519.8	520.6	475.1	420.8	364.1	325.0	300.2
72.5°	353.9	369.2	397.0	417.7	436.7	430.5	388.8	346.0	300.2	270.7	252.3
75°	273.1	286.6	301.0	310.6	310.6	302.6	272.3	240.3	214.0	196.4	190.8
77.5°	198.5	209.7	214.5	213.0	210.1	197.7	178.5	157.6	148.2	139.9	135.7
80°	155.7	160.5	162.1	158.1	153.3	138.9	126.1	117.4	108.6	105.4	103.8
82.5°	115.4	119.6	115.4	116.6	106.0	94.2	87.2	84.2	80.5	79.2	77.6
85°	61.5	60.7	59.1	55.1	47.9	46.3	45.5	44.7	43.1	43.9	42.3
87.5°	21.9	20.3	18.1	17.9	18.2	17.2	18.1	18.3	18.6	18.2	19.6
90°	4.0	5.9	7.7	9.5	11.1	12.4	13.7	15.0	16.3	17.3	18.3
92.5°	9.5	9.6	9.6	9.7	10.5	11.8	13.1	14.4	15.7	16.7	17.7
95°	35.2	29.6	24.0	18.4	15.7	15.8	16.0	16.2	16.3	17.3	18.3
97.5°	90.2	93.7	97.2	100.7	93.2	74.8	56.4	38.0	19.6	19.7	19.8
100°	124.7	127.7	130.6	133.6	123.7	101.0	78.2	55.4	32.7	29.9	27.1
102.5°	163.1	165.3	167.5	169.6	169.2	166.3	163.3	160.3	157.4	127.1	96.9
105°	224.4	225.4	226.4	227.4	228.3	229.1	229.9	230.8	231.6	233.1	234.6
107.5°	282.0	282.5	283.0	283.5	284.3	285.4	286.5	287.6	288.7	289.5	290.2
110°	321.2	321.7	322.2	322.6	323.4	324.4	325.4	326.4	327.3	327.7	328.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	359.6	360.5	361.3	362.2	362.9	363.4	363.8	364.3	364.8	364.7	364.6
115°	417.7	418.2	418.6	419.1	419.3	419.1	419.0	418.8	418.6	419.0	419.3
117.5°	470.5	471.2	471.8	472.5	473.0	473.4	473.7	474.1	474.5	474.4	474.3
120°	506.2	506.8	507.5	508.1	508.4	508.2	508.1	507.9	507.7	508.1	508.4
122.5°	539.1	539.5	539.9	540.3	540.6	540.9	541.1	541.3	541.6	541.8	542.0
125°	587.1	587.7	588.4	589.0	589.2	588.9	588.6	588.2	587.9	588.4	588.9
127.5°	631.7	631.9	632.0	632.2	632.7	633.4	634.2	634.9	635.7	635.6	635.5
130°	660.8	661.0	661.1	661.3	661.6	662.1	662.6	663.1	663.6	663.8	663.9
132.5°	687.7	688.0	688.2	688.5	689.0	689.6	690.3	690.9	691.5	691.7	691.8
135°	727.3	727.1	726.9	726.8	727.0	727.7	728.3	729.0	729.7	730.0	730.3
137.5°	763.0	763.1	763.1	763.2	763.6	764.3	765.0	765.8	766.5	766.8	767.2
140°	786.4	786.7	787.1	787.4	787.7	788.1	788.4	788.7	789.1	789.5	790.0
142.5°	807.5	808.1	808.6	809.2	809.6	809.8	810.0	810.2	810.4	810.8	811.2
145°	839.3	839.8	840.3	840.8	841.0	841.0	841.0	841.0	841.0	841.2	841.3
147.5°	865.1	866.0	866.9	867.9	868.2	868.1	867.9	867.7	867.6	867.7	867.8
150°	883.2	883.9	884.6	885.2	885.5	885.3	885.1	885.0	884.8	884.8	884.8
152.5°	898.5	899.1	899.6	900.1	900.2	899.9	899.7	899.4	899.1	899.3	899.6
155°	919.9	920.0	920.2	920.4	920.2	919.7	919.2	918.7	918.2	918.9	919.5
157.5°	937.9	937.8	937.7	937.6	937.2	936.7	936.1	935.5	935.0	935.8	936.7
160°	948.1	947.7	947.2	946.7	946.3	946.2	946.0	945.8	945.7	946.7	947.7
162.5°	957.5	956.9	956.3	955.6	955.2	955.1	954.9	954.7	954.6	955.6	956.6
165°	969.3	968.5	967.7	966.9	966.5	966.5	966.5	966.5	966.5	967.8	969.1
167.5°	978.8	978.0	977.1	976.2	975.8	975.7	975.6	975.5	975.4	976.8	978.3
170°	984.0	983.0	982.0	981.1	980.6	980.8	981.0	981.1	981.3	982.6	983.9
172.5°	987.6	986.6	985.6	984.6	984.2	984.4	984.5	984.7	984.9	986.2	987.5
175°	991.4	990.5	989.5	988.5	988.1	988.2	988.4	988.6	988.7	990.2	991.7
177.5°	993.3	992.4	991.4	990.5	990.2	990.5	990.7	991.0	991.2	992.3	993.4
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2078.7	2081.3	2083.2	2089.6	2090.2	2096.0	2090.2
5°	2250.7	2261.9	2279.5	2297.0	2298.6	2309.8	2289.8
7.5°	2443.6	2469.5	2485.6	2514.0	2525.2	2532.2	2520.7
10°	2576.5	2600.4	2642.7	2663.5	2684.3	2687.4	2677.9
12.5°	2704.9	2742.9	2776.2	2815.5	2814.6	2842.7	2832.4
15°	2875.9	2915.0	2961.3	3005.2	3021.2	3021.2	3034.0
17.5°	2997.9	3069.6	3117.5	3152.0	3189.6	3196.2	3191.7
20°	3080.3	3157.7	3208.8	3253.5	3279.1	3286.3	3286.3
22.5°	3141.6	3207.5	3257.4	3297.6	3318.7	3327.1	3324.6
25°	3184.1	3240.7	3271.1	3283.1	3288.6	3287.1	3271.9
27.5°	3125.9	3123.4	3104.2	3067.5	3039.9	3023.1	3003.9
30°	3014.8	2973.3	2925.4	2872.7	2804.8	2752.9	2736.9
32.5°	2849.4	2756.1	2675.0	2587.2	2514.2	2462.3	2440.6
35°	2529.4	2381.7	2261.1	2155.7	2079.1	2031.2	2015.2
37.5°	2149.6	2006.7	1857.4	1755.2	1691.7	1643.3	1625.2
40°	1908.2	1752.5	1622.4	1526.6	1461.1	1414.0	1413.2
42.5°	1687.8	1539.2	1416.7	1347.7	1277.1	1246.0	1245.8
45°	1382.0	1263.1	1159.3	1105.0	1062.7	1037.1	1029.9
47.5°	1144.3	1045.9	976.8	933.5	899.0	882.7	872.2
50°	1010.8	924.6	869.5	831.9	812.8	792.0	790.4
52.5°	899.6	830.0	787.1	756.6	732.3	719.8	720.2
55°	756.1	701.0	670.7	647.5	628.3	618.8	614.8
57.5°	637.0	595.6	573.6	552.3	544.2	536.7	534.6
60°	562.9	534.9	514.2	497.4	485.4	483.0	482.2
62.5°	501.6	472.3	458.0	445.0	436.3	432.6	431.1
65°	413.6	392.0	379.2	368.9	365.7	360.1	359.3
67.5°	333.4	320.5	312.0	304.8	300.5	300.2	300.2
70°	284.2	277.0	269.9	265.9	263.5	261.9	261.9
72.5°	242.1	236.8	230.9	228.8	228.3	226.7	226.1
75°	184.4	178.8	179.6	175.7	172.5	168.5	166.1
77.5°	130.8	126.8	126.0	125.5	122.8	122.3	123.6
80°	101.4	97.4	96.6	97.4	96.6	94.2	94.2
82.5°	77.1	73.8	73.0	72.5	71.7	72.5	71.2
85°	41.5	39.9	39.9	39.9	41.5	40.7	39.9
87.5°	18.6	18.1	18.9	18.3	18.4	17.8	18.5
90°	19.3	20.3	20.9	21.3	21.6	21.9	22.3
92.5°	18.7	19.7	20.2	20.3	20.4	20.4	20.5
95°	19.3	20.3	20.9	21.0	21.2	21.4	21.5
97.5°	19.9	20.0	20.1	20.3	20.5	20.6	20.8
100°	24.2	21.4	20.1	20.3	20.5	20.6	20.8
102.5°	66.6	36.4	21.2	21.3	21.3	21.3	21.4
105°	236.0	237.5	235.3	229.4	223.4	217.5	211.6
107.5°	290.9	291.7	292.3	293.0	293.6	294.2	294.8
110°	328.3	328.7	329.1	329.6	330.1	330.6	331.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	364.6	364.5	364.8	365.4	366.0	366.7	367.3
115°	419.6	420.0	420.1	420.1	420.1	420.1	420.1
117.5°	474.3	474.2	474.1	474.1	474.0	473.9	473.9
120°	508.7	509.0	509.0	508.7	508.4	508.1	507.7
122.5°	542.2	542.4	542.3	542.0	541.6	541.3	541.0
125°	589.4	589.9	590.2	590.4	590.5	590.7	590.9
127.5°	635.4	635.3	635.2	635.1	634.9	634.8	634.7
130°	664.1	664.3	664.3	664.3	664.3	664.3	664.3
132.5°	692.0	692.2	692.2	692.1	691.9	691.8	691.7
135°	730.7	731.0	731.3	731.6	732.0	732.3	732.6
137.5°	767.6	767.9	768.1	768.0	767.9	767.8	767.7
140°	790.5	791.0	791.4	791.5	791.7	791.9	792.0
142.5°	811.5	811.9	812.1	812.1	812.1	812.2	812.2
145°	841.5	841.7	841.9	842.2	842.6	842.9	843.2
147.5°	868.0	868.1	868.3	868.4	868.6	868.8	868.9
150°	884.8	884.8	884.9	885.1	885.2	885.4	885.5
152.5°	899.8	900.1	900.2	900.1	900.0	899.9	899.8
155°	920.2	920.8	920.9	920.4	919.9	919.4	919.0
157.5°	937.6	938.4	938.4	937.6	936.7	935.8	935.0
160°	948.6	949.6	949.6	948.6	947.7	946.7	945.7
162.5°	957.5	958.5	958.5	957.4	956.2	955.1	954.0
165°	970.4	971.7	971.7	970.2	968.7	967.2	965.7
167.5°	979.7	981.2	981.1	979.4	977.8	976.1	974.5
170°	985.3	986.6	986.4	984.8	983.1	981.5	979.8
172.5°	988.8	990.1	989.9	988.1	986.4	984.6	982.8
175°	993.2	994.7	994.4	992.4	990.5	988.5	986.5
177.5°	994.4	995.5	995.2	993.6	992.0	990.5	988.9
180°	992.4	992.4	992.4	992.4	992.4	992.4	992.4

(END OF REPORT)