

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: P332998-935

Luminaire Tested: **SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332998-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6730.2 lumens
Efficiency: N/A
Efficacy: 110.9 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: Semi-Direct

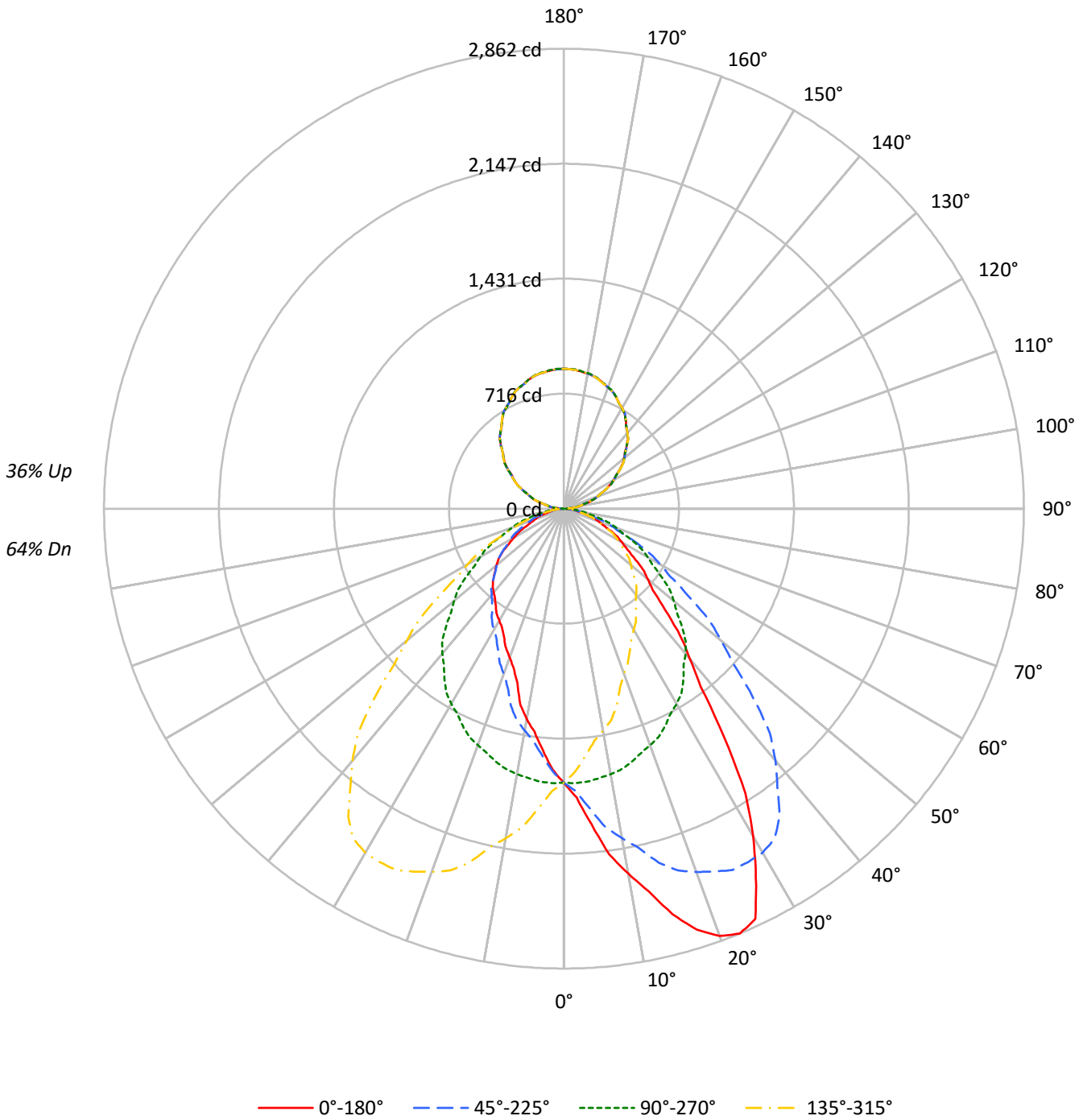
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64				
1	102	97	94	90	95	92	88	85	81	78	76	71	69	68	62	61	60	55				
2	93	86	80	75	87	81	76	71	72	68	64	63	60	57	55	53	51	47				
3	85	76	69	63	80	72	65	60	64	59	55	56	52	49	49	47	44	41				
4	78	68	60	54	73	64	57	51	57	51	47	51	46	43	45	41	38	35				
5	72	61	52	47	68	57	50	45	51	45	41	46	41	37	40	37	34	31				
6	67	55	46	41	62	52	44	39	46	40	36	41	37	33	37	33	30	27				
7	62	49	42	36	58	47	40	35	42	36	32	38	33	29	34	30	27	24				
8	57	45	37	32	54	43	36	31	39	33	29	35	30	26	31	27	24	22				
9	54	41	34	29	50	39	32	28	36	30	26	32	27	24	29	25	22	20				
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	27	23	20	18				

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	2.5
10°-20°	498.7	7.4
20°-30°	780.0	11.6
30°-40°	867.1	12.9
40°-50°	769.3	11.4
50°-60°	599.5	8.9
60°-70°	392.5	5.8
70°-80°	193.0	2.9
80°-90°	50.2	0.7
90°-100°	57.4	0.9
100°-110°	170.1	2.5
110°-120°	288.6	4.3
120°-130°	380.6	5.7
130°-140°	427.4	6.4
140°-150°	420.0	6.2
150°-160°	353.3	5.2
160°-170°	235.0	3.5
170°-180°	82.3	1.2
0°-30°	1444.0	21.5
0°-40°	2311.0	34.3
0°-60°	3679.8	54.7
0°-90°	4315.5	64.1
90°-120°	516.1	7.7
90°-150°	1744.1	25.9
90°-180°	2415.0	35.9
0°-180°	6730.2	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°	20	2	20	2	20	12
95°	53	40	53	40	53	55
105°	164	157	164	157	164	173
115°	291	294	291	294	291	287
125°	424	427	424	427	424	378
135°	552	551	552	551	552	426
145°	670	670	670	670	670	420
155°	767	767	767	767	767	353
165°	833	835	833	835	833	235
175°	865	869	865	869	865	82
180°	870	870	870	870	870	



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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°	16.1	15.5	16.0	15.9	16.4	15.8	16.2	17.0	15.8	16.2	15.9
90°	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6	15.7	14.8	13.6
92.5°	29.9	29.7	29.5	29.4	29.2	28.8	28.2	27.7	27.2	26.7	25.8
95°	53.2	53.2	53.2	53.2	53.2	53.0	52.5	52.1	51.6	51.1	50.1
97.5°	83.3	83.3	83.3	83.3	83.3	83.1	82.5	82.0	81.5	80.9	79.6
100°	104.4	104.4	104.4	104.4	104.4	104.2	103.9	103.6	103.3	103.0	101.6
102.5°	128.0	127.9	127.8	127.7	127.5	127.3	126.8	126.5	126.1	125.6	124.4
105°	164.3	163.8	163.3	162.9	162.5	162.0	161.5	161.1	160.7	160.2	159.6
107.5°	199.5	199.6	199.6	199.6	199.7	199.4	199.0	198.6	198.2	197.8	197.7
110°	224.8	224.4	223.9	223.5	223.0	222.9	223.3	223.5	223.9	224.1	224.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	250.6	250.6	250.5	250.4	250.3	250.3	250.4	250.4	250.5	250.6	250.8
115°	290.8	290.9	291.1	291.3	291.4	291.5	291.7	291.8	292.0	292.1	292.4
117.5°	329.0	329.3	329.6	329.9	330.2	330.6	331.1	331.7	332.2	332.7	332.9
120°	358.1	357.8	357.5	357.2	356.9	357.1	357.8	358.6	359.4	360.2	360.6
122.5°	382.4	382.9	383.4	383.9	384.5	385.0	385.6	386.0	386.5	387.0	387.3
125°	424.0	424.4	424.6	425.0	425.2	425.6	425.9	426.2	426.5	426.8	426.9
127.5°	462.7	463.0	463.2	463.4	463.6	463.9	464.3	464.5	464.9	465.1	465.4
130°	488.0	488.6	489.2	489.8	490.4	490.9	491.1	491.5	491.7	492.1	492.1
132.5°	515.0	515.1	515.4	515.7	515.9	516.2	516.4	516.8	517.0	517.4	517.5
135°	552.0	552.4	552.8	553.3	553.7	554.1	554.4	554.7	555.0	555.3	555.3
137.5°	590.9	590.7	590.6	590.6	590.5	590.6	591.1	591.4	591.9	592.2	591.9
140°	614.6	614.7	614.8	615.0	615.2	615.3	615.4	615.6	615.8	615.9	615.9
142.5°	638.3	638.3	638.3	638.3	638.3	638.4	638.4	638.4	638.5	638.5	638.6
145°	670.5	670.9	671.3	671.8	672.2	672.5	672.7	672.8	673.0	673.1	673.0
147.5°	703.0	703.2	703.3	703.4	703.6	703.7	703.9	704.0	704.1	704.2	704.3
150°	722.9	723.1	723.2	723.4	723.5	723.6	723.6	723.6	723.6	723.6	723.6
152.5°	741.2	741.7	742.0	742.4	742.8	742.8	742.4	742.1	741.8	741.4	741.2
155°	766.7	767.2	767.8	768.4	769.0	769.0	768.4	767.8	767.2	766.7	766.8
157.5°	789.5	790.0	790.5	791.0	791.4	791.5	791.1	790.6	790.1	789.7	789.7
160°	802.4	803.1	803.8	804.6	805.4	805.5	805.0	804.6	804.2	803.7	803.8
162.5°	815.8	816.6	817.3	818.0	818.8	818.8	817.9	817.2	816.4	815.5	815.7
165°	833.4	833.9	834.5	835.1	835.7	835.6	834.7	833.8	832.8	832.0	832.2
167.5°	845.8	846.8	847.7	848.6	849.5	849.5	848.7	847.7	846.9	845.9	845.9
170°	852.8	853.9	855.0	856.0	857.0	857.1	856.2	855.3	854.4	853.5	853.3
172.5°	858.8	859.8	860.8	861.9	863.0	863.0	861.9	860.9	859.9	858.9	858.8
175°	865.0	866.0	867.0	868.1	869.2	869.2	868.1	867.0	866.0	865.0	865.1
177.5°	868.1	869.2	870.1	871.1	872.0	872.1	871.2	870.4	869.5	868.7	868.7
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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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°	15.7	14.9	15.8	15.5	15.7	17.6	18.9	19.1	17.8	16.4	15.2
90°	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0	3.7	5.3	7.0
92.5°	25.0	24.1	23.3	22.0	20.1	18.2	16.3	14.4	16.3	18.2	20.1
95°	49.1	48.0	47.0	45.8	44.4	43.0	41.8	40.4	41.8	43.0	44.4
97.5°	78.4	77.2	76.0	74.8	73.8	72.7	71.6	70.5	71.6	72.7	73.8
100°	100.3	98.9	97.6	96.6	96.0	95.4	94.8	94.3	94.8	95.4	96.0
102.5°	123.1	121.9	120.7	119.9	119.8	119.5	119.2	119.0	119.2	119.5	119.8
105°	159.0	158.4	157.8	157.5	157.3	157.1	157.0	156.9	157.0	157.1	157.3
107.5°	197.6	197.5	197.4	197.3	197.1	196.9	196.7	196.6	196.7	196.9	197.1
110°	224.5	224.6	224.7	224.6	224.4	224.0	223.8	223.5	223.8	224.0	224.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	251.1	251.3	251.6	251.8	251.7	251.6	251.5	251.5	251.5	251.6	251.7
115°	292.7	293.0	293.3	293.5	293.5	293.5	293.5	293.5	293.5	293.5	293.5
117.5°	333.0	333.3	333.5	333.6	333.4	333.3	333.2	333.0	333.2	333.3	333.4
120°	361.0	361.4	361.9	361.9	361.3	360.7	360.1	359.5	360.1	360.7	361.3
122.5°	387.4	387.7	387.9	387.9	387.6	387.4	387.1	386.9	387.1	387.4	387.6
125°	427.1	427.2	427.3	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
127.5°	465.6	465.8	466.1	466.0	465.5	465.1	464.6	464.2	464.6	465.1	465.5
130°	492.1	492.1	492.1	491.8	491.4	490.9	490.5	490.0	490.5	490.9	491.4
132.5°	517.6	517.7	517.8	517.7	517.4	517.1	516.8	516.4	516.8	517.1	517.4
135°	555.3	555.3	555.3	554.9	554.0	553.1	552.2	551.3	552.2	553.1	554.0
137.5°	591.8	591.5	591.2	590.9	590.5	590.0	589.7	589.3	589.7	590.0	590.5
140°	615.9	615.9	615.9	615.8	615.4	615.2	614.8	614.6	614.8	615.2	615.4
142.5°	638.8	638.9	639.0	638.9	638.6	638.3	638.0	637.7	638.0	638.3	638.6
145°	672.8	672.7	672.5	672.2	671.6	671.0	670.4	669.8	670.4	671.0	671.6
147.5°	704.5	704.6	704.7	704.4	703.7	702.9	702.2	701.5	702.2	702.9	703.7
150°	723.6	723.6	723.6	723.3	722.7	722.1	721.5	720.9	721.5	722.1	722.7
152.5°	741.1	741.0	740.9	740.6	740.3	739.9	739.6	739.3	739.6	739.9	740.3
155°	767.0	767.2	767.2	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
157.5°	789.8	789.8	789.8	790.0	790.2	790.5	790.7	791.1	790.7	790.5	790.2
160°	804.0	804.2	804.3	804.4	804.6	804.8	804.9	805.0	804.9	804.8	804.6
162.5°	815.9	816.0	816.1	816.4	816.8	817.2	817.6	817.9	817.6	817.2	816.8
165°	832.6	832.8	833.2	833.5	834.0	834.5	834.9	835.3	834.9	834.5	834.0
167.5°	845.9	845.8	845.8	846.2	846.8	847.4	848.0	848.7	848.0	847.4	846.8
170°	853.3	853.1	852.9	853.3	853.9	854.7	855.5	856.2	855.5	854.7	853.9
172.5°	858.8	858.8	858.8	859.1	859.7	860.3	861.0	861.6	861.0	860.3	859.7
175°	865.2	865.4	865.6	866.0	866.8	867.5	868.2	869.0	868.2	867.5	866.8
177.5°	868.7	868.7	868.7	869.0	869.6	870.2	870.8	871.4	870.8	870.2	869.6
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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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°	15.5	15.2	15.4	14.6	15.4	15.6	15.2	15.4	16.2	15.2	15.3
90°	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6	17.5	18.4	19.0
92.5°	22.0	23.3	24.1	25.0	25.8	26.7	27.2	27.7	28.2	28.8	29.2
95°	45.8	47.0	48.0	49.1	50.1	51.1	51.6	52.1	52.5	53.0	53.2
97.5°	74.8	76.0	77.2	78.4	79.6	80.9	81.5	82.0	82.5	83.1	83.3
100°	96.6	97.6	98.9	100.3	101.6	103.0	103.3	103.6	103.9	104.2	104.4
102.5°	119.9	120.7	121.9	123.1	124.4	125.6	126.1	126.5	126.8	127.3	127.5
105°	157.5	157.8	158.4	159.0	159.6	160.2	160.7	161.1	161.5	162.0	162.5
107.5°	197.3	197.4	197.5	197.6	197.7	197.8	198.2	198.6	199.0	199.4	199.7
110°	224.6	224.7	224.6	224.5	224.3	224.1	223.9	223.5	223.3	222.9	223.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	251.8	251.6	251.3	251.1	250.8	250.6	250.5	250.4	250.4	250.3	250.3
115°	293.5	293.3	293.0	292.7	292.4	292.1	292.0	291.8	291.7	291.5	291.4
117.5°	333.6	333.5	333.3	333.0	332.9	332.7	332.2	331.7	331.1	330.6	330.2
120°	361.9	361.9	361.4	361.0	360.6	360.2	359.4	358.6	357.8	357.1	356.9
122.5°	387.9	387.9	387.7	387.4	387.3	387.0	386.5	386.0	385.6	385.0	384.5
125°	427.4	427.3	427.2	427.1	426.9	426.8	426.5	426.2	425.9	425.6	425.2
127.5°	466.0	466.1	465.8	465.6	465.4	465.1	464.9	464.5	464.3	463.9	463.6
130°	491.8	492.1	492.1	492.1	492.1	492.1	491.7	491.5	491.1	490.9	490.4
132.5°	517.7	517.8	517.7	517.6	517.5	517.4	517.0	516.8	516.4	516.2	515.9
135°	554.9	555.3	555.3	555.3	555.3	555.3	555.0	554.7	554.4	554.1	553.7
137.5°	590.9	591.2	591.5	591.8	591.9	592.2	591.9	591.4	591.1	590.6	590.5
140°	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.6	615.4	615.3	615.2
142.5°	638.9	639.0	638.9	638.8	638.6	638.5	638.5	638.4	638.4	638.4	638.3
145°	672.2	672.5	672.7	672.8	673.0	673.1	673.0	672.8	672.7	672.5	672.2
147.5°	704.4	704.7	704.6	704.5	704.3	704.2	704.1	704.0	703.9	703.7	703.6
150°	723.3	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.5
152.5°	740.6	740.9	741.0	741.1	741.2	741.4	741.8	742.1	742.4	742.8	742.8
155°	767.3	767.2	767.2	767.0	766.8	766.7	767.2	767.8	768.4	769.0	769.0
157.5°	790.0	789.8	789.8	789.8	789.7	789.7	790.1	790.6	791.1	791.5	791.4
160°	804.4	804.3	804.2	804.0	803.8	803.7	804.2	804.6	805.0	805.5	805.4
162.5°	816.4	816.1	816.0	815.9	815.7	815.5	816.4	817.2	817.9	818.8	818.8
165°	833.5	833.2	832.8	832.6	832.2	832.0	832.8	833.8	834.7	835.6	835.7
167.5°	846.2	845.8	845.8	845.9	845.9	845.9	846.9	847.7	848.7	849.5	849.5
170°	853.3	852.9	853.1	853.3	853.3	853.5	854.4	855.3	856.2	857.1	857.0
172.5°	859.1	858.8	858.8	858.8	858.8	858.9	859.9	860.9	861.9	863.0	863.0
175°	866.0	865.6	865.4	865.2	865.1	865.0	866.0	867.0	868.1	869.2	869.2
177.5°	869.0	868.7	868.7	868.7	868.7	868.7	869.5	870.4	871.2	872.1	872.0
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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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°	16.5	16.0	15.5	16.1	15.5	16.0	16.5	15.3	15.2	16.2	15.4
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6
92.5°	29.4	29.5	29.7	29.9	29.7	29.5	29.4	29.2	28.8	28.2	27.7
95°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.0	52.5	52.1
97.5°	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.1	82.5	82.0
100°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.2	103.9	103.6
102.5°	127.7	127.8	127.9	128.0	127.9	127.8	127.7	127.5	127.3	126.8	126.5
105°	162.9	163.3	163.8	164.3	163.8	163.3	162.9	162.5	162.0	161.5	161.1
107.5°	199.6	199.6	199.6	199.5	199.6	199.6	199.6	199.7	199.4	199.0	198.6
110°	223.5	223.9	224.4	224.8	224.4	223.9	223.5	223.0	222.9	223.3	223.5



TEST NUMBER: P332998-935

CATALOG NUMBER: SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.4	250.5	250.6	250.6	250.6	250.5	250.4	250.3	250.3	250.4	250.4
115°	291.3	291.1	290.9	290.8	290.9	291.1	291.3	291.4	291.5	291.7	291.8
117.5°	329.9	329.6	329.3	329.0	329.3	329.6	329.9	330.2	330.6	331.1	331.7
120°	357.2	357.5	357.8	358.1	357.8	357.5	357.2	356.9	357.1	357.8	358.6
122.5°	383.9	383.4	382.9	382.4	382.9	383.4	383.9	384.5	385.0	385.6	386.0
125°	425.0	424.6	424.4	424.0	424.4	424.6	425.0	425.2	425.6	425.9	426.2
127.5°	463.4	463.2	463.0	462.7	463.0	463.2	463.4	463.6	463.9	464.3	464.5
130°	489.8	489.2	488.6	488.0	488.6	489.2	489.8	490.4	490.9	491.1	491.5
132.5°	515.7	515.4	515.1	515.0	515.1	515.4	515.7	515.9	516.2	516.4	516.8
135°	553.3	552.8	552.4	552.0	552.4	552.8	553.3	553.7	554.1	554.4	554.7
137.5°	590.6	590.6	590.7	590.9	590.7	590.6	590.6	590.5	590.6	591.1	591.4
140°	615.0	614.8	614.7	614.6	614.7	614.8	615.0	615.2	615.3	615.4	615.6
142.5°	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.4	638.4	638.4
145°	671.8	671.3	670.9	670.5	670.9	671.3	671.8	672.2	672.5	672.7	672.8
147.5°	703.4	703.3	703.2	703.0	703.2	703.3	703.4	703.6	703.7	703.9	704.0
150°	723.4	723.2	723.1	722.9	723.1	723.2	723.4	723.5	723.6	723.6	723.6
152.5°	742.4	742.0	741.7	741.2	741.7	742.0	742.4	742.8	742.8	742.4	742.1
155°	768.4	767.8	767.2	766.7	767.2	767.8	768.4	769.0	769.0	768.4	767.8
157.5°	791.0	790.5	790.0	789.5	790.0	790.5	791.0	791.4	791.5	791.1	790.6
160°	804.6	803.8	803.1	802.4	803.1	803.8	804.6	805.4	805.5	805.0	804.6
162.5°	818.0	817.3	816.6	815.8	816.6	817.3	818.0	818.8	818.8	817.9	817.2
165°	835.1	834.5	833.9	833.4	833.9	834.5	835.1	835.7	835.6	834.7	833.8
167.5°	848.6	847.7	846.8	845.8	846.8	847.7	848.6	849.5	849.5	848.7	847.7
170°	856.0	855.0	853.9	852.8	853.9	855.0	856.0	857.0	857.1	856.2	855.3
172.5°	861.9	860.8	859.8	858.8	859.8	860.8	861.9	863.0	863.0	861.9	860.9
175°	868.1	867.0	866.0	865.0	866.0	867.0	868.1	869.2	869.2	868.1	867.0
177.5°	871.1	870.1	869.2	868.1	869.2	870.1	871.1	872.0	872.1	871.2	870.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332998-935

CATALOG NUMBER: SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A1

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°	15.2	15.6	15.4	14.6	15.4	15.2	15.5	15.2	16.4	17.8	19.1
90°	15.7	14.8	13.6	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0
92.5°	27.2	26.7	25.8	25.0	24.1	23.3	22.0	20.1	18.2	16.3	14.4
95°	51.6	51.1	50.1	49.1	48.0	47.0	45.8	44.4	43.0	41.8	40.4
97.5°	81.5	80.9	79.6	78.4	77.2	76.0	74.8	73.8	72.7	71.6	70.5
100°	103.3	103.0	101.6	100.3	98.9	97.6	96.6	96.0	95.4	94.8	94.3
102.5°	126.1	125.6	124.4	123.1	121.9	120.7	119.9	119.8	119.5	119.2	119.0
105°	160.7	160.2	159.6	159.0	158.4	157.8	157.5	157.3	157.1	157.0	156.9
107.5°	198.2	197.8	197.7	197.6	197.5	197.4	197.3	197.1	196.9	196.7	196.6
110°	223.9	224.1	224.3	224.5	224.6	224.7	224.6	224.4	224.0	223.8	223.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	250.5	250.6	250.8	251.1	251.3	251.6	251.8	251.7	251.6	251.5	251.5
115°	292.0	292.1	292.4	292.7	293.0	293.3	293.5	293.5	293.5	293.5	293.5
117.5°	332.2	332.7	332.9	333.0	333.3	333.5	333.6	333.4	333.3	333.2	333.0
120°	359.4	360.2	360.6	361.0	361.4	361.9	361.9	361.3	360.7	360.1	359.5
122.5°	386.5	387.0	387.3	387.4	387.7	387.9	387.9	387.6	387.4	387.1	386.9
125°	426.5	426.8	426.9	427.1	427.2	427.3	427.4	427.4	427.4	427.4	427.4
127.5°	464.9	465.1	465.4	465.6	465.8	466.1	466.0	465.5	465.1	464.6	464.2
130°	491.7	492.1	492.1	492.1	492.1	492.1	491.8	491.4	490.9	490.5	490.0
132.5°	517.0	517.4	517.5	517.6	517.7	517.8	517.7	517.4	517.1	516.8	516.4
135°	555.0	555.3	555.3	555.3	555.3	555.3	554.9	554.0	553.1	552.2	551.3
137.5°	591.9	592.2	591.9	591.8	591.5	591.2	590.9	590.5	590.0	589.7	589.3
140°	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.4	615.2	614.8	614.6
142.5°	638.5	638.5	638.6	638.8	638.9	639.0	638.9	638.6	638.3	638.0	637.7
145°	673.0	673.1	673.0	672.8	672.7	672.5	672.2	671.6	671.0	670.4	669.8
147.5°	704.1	704.2	704.3	704.5	704.6	704.7	704.4	703.7	702.9	702.2	701.5
150°	723.6	723.6	723.6	723.6	723.6	723.6	723.3	722.7	722.1	721.5	720.9
152.5°	741.8	741.4	741.2	741.1	741.0	740.9	740.6	740.3	739.9	739.6	739.3
155°	767.2	766.7	766.8	767.0	767.2	767.2	767.3	767.3	767.3	767.3	767.3
157.5°	790.1	789.7	789.7	789.8	789.8	789.8	790.0	790.2	790.5	790.7	791.1
160°	804.2	803.7	803.8	804.0	804.2	804.3	804.4	804.6	804.8	804.9	805.0
162.5°	816.4	815.5	815.7	815.9	816.0	816.1	816.4	816.8	817.2	817.6	817.9
165°	832.8	832.0	832.2	832.6	832.8	833.2	833.5	834.0	834.5	834.9	835.3
167.5°	846.9	845.9	845.9	845.9	845.8	845.8	846.2	846.8	847.4	848.0	848.7
170°	854.4	853.5	853.3	853.3	853.1	852.9	853.3	853.9	854.7	855.5	856.2
172.5°	859.9	858.9	858.8	858.8	858.8	858.8	859.1	859.7	860.3	861.0	861.6
175°	866.0	865.0	865.1	865.2	865.4	865.6	866.0	866.8	867.5	868.2	869.0
177.5°	869.5	868.7	868.7	868.7	868.7	868.7	869.0	869.6	870.2	870.8	871.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332998-935

CATALOG NUMBER: SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A1

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°	18.9	17.6	15.7	15.5	15.8	14.9	15.7	15.9	16.2	15.8	17.0
90°	3.7	5.3	7.0	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6
92.5°	16.3	18.2	20.1	22.0	23.3	24.1	25.0	25.8	26.7	27.2	27.7
95°	41.8	43.0	44.4	45.8	47.0	48.0	49.1	50.1	51.1	51.6	52.1
97.5°	71.6	72.7	73.8	74.8	76.0	77.2	78.4	79.6	80.9	81.5	82.0
100°	94.8	95.4	96.0	96.6	97.6	98.9	100.3	101.6	103.0	103.3	103.6
102.5°	119.2	119.5	119.8	119.9	120.7	121.9	123.1	124.4	125.6	126.1	126.5
105°	157.0	157.1	157.3	157.5	157.8	158.4	159.0	159.6	160.2	160.7	161.1
107.5°	196.7	196.9	197.1	197.3	197.4	197.5	197.6	197.7	197.8	198.2	198.6
110°	223.8	224.0	224.4	224.6	224.7	224.6	224.5	224.3	224.1	223.9	223.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	251.5	251.6	251.7	251.8	251.6	251.3	251.1	250.8	250.6	250.5	250.4
115°	293.5	293.5	293.5	293.5	293.3	293.0	292.7	292.4	292.1	292.0	291.8
117.5°	333.2	333.3	333.4	333.6	333.5	333.3	333.0	332.9	332.7	332.2	331.7
120°	360.1	360.7	361.3	361.9	361.9	361.4	361.0	360.6	360.2	359.4	358.6
122.5°	387.1	387.4	387.6	387.9	387.9	387.7	387.4	387.3	387.0	386.5	386.0
125°	427.4	427.4	427.4	427.4	427.3	427.2	427.1	426.9	426.8	426.5	426.2
127.5°	464.6	465.1	465.5	466.0	466.1	465.8	465.6	465.4	465.1	464.9	464.5
130°	490.5	490.9	491.4	491.8	492.1	492.1	492.1	492.1	492.1	491.7	491.5
132.5°	516.8	517.1	517.4	517.7	517.8	517.7	517.6	517.5	517.4	517.0	516.8
135°	552.2	553.1	554.0	554.9	555.3	555.3	555.3	555.3	555.3	555.0	554.7
137.5°	589.7	590.0	590.5	590.9	591.2	591.5	591.8	591.9	592.2	591.9	591.4
140°	614.8	615.2	615.4	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.6
142.5°	638.0	638.3	638.6	638.9	639.0	638.9	638.8	638.6	638.5	638.5	638.4
145°	670.4	671.0	671.6	672.2	672.5	672.7	672.8	673.0	673.1	673.0	672.8
147.5°	702.2	702.9	703.7	704.4	704.7	704.6	704.5	704.3	704.2	704.1	704.0
150°	721.5	722.1	722.7	723.3	723.6	723.6	723.6	723.6	723.6	723.6	723.6
152.5°	739.6	739.9	740.3	740.6	740.9	741.0	741.1	741.2	741.4	741.8	742.1
155°	767.3	767.3	767.3	767.3	767.2	767.2	767.0	766.8	766.7	767.2	767.8
157.5°	790.7	790.5	790.2	790.0	789.8	789.8	789.8	789.7	789.7	790.1	790.6
160°	804.9	804.8	804.6	804.4	804.3	804.2	804.0	803.8	803.7	804.2	804.6
162.5°	817.6	817.2	816.8	816.4	816.1	816.0	815.9	815.7	815.5	816.4	817.2
165°	834.9	834.5	834.0	833.5	833.2	832.8	832.6	832.2	832.0	832.8	833.8
167.5°	848.0	847.4	846.8	846.2	845.8	845.8	845.9	845.9	845.9	846.9	847.7
170°	855.5	854.7	853.9	853.3	852.9	853.1	853.3	853.3	853.5	854.4	855.3
172.5°	861.0	860.3	859.7	859.1	858.8	858.8	858.8	858.8	858.9	859.9	860.9
175°	868.2	867.5	866.8	866.0	865.6	865.4	865.2	865.1	865.0	866.0	867.0
177.5°	870.8	870.2	869.6	869.0	868.7	868.7	868.7	868.7	868.7	869.5	870.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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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°	16.2	15.8	16.4	15.9	16.0	15.5	16.1
90°	17.5	18.4	19.0	19.3	19.6	19.9	20.2
92.5°	28.2	28.8	29.2	29.4	29.5	29.7	29.9
95°	52.5	53.0	53.2	53.2	53.2	53.2	53.2
97.5°	82.5	83.1	83.3	83.3	83.3	83.3	83.3
100°	103.9	104.2	104.4	104.4	104.4	104.4	104.4
102.5°	126.8	127.3	127.5	127.7	127.8	127.9	128.0
105°	161.5	162.0	162.5	162.9	163.3	163.8	164.3
107.5°	199.0	199.4	199.7	199.6	199.6	199.6	199.5
110°	223.3	222.9	223.0	223.5	223.9	224.4	224.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	250.4	250.3	250.3	250.4	250.5	250.6	250.6
115°	291.7	291.5	291.4	291.3	291.1	290.9	290.8
117.5°	331.1	330.6	330.2	329.9	329.6	329.3	329.0
120°	357.8	357.1	356.9	357.2	357.5	357.8	358.1
122.5°	385.6	385.0	384.5	383.9	383.4	382.9	382.4
125°	425.9	425.6	425.2	425.0	424.6	424.4	424.0
127.5°	464.3	463.9	463.6	463.4	463.2	463.0	462.7
130°	491.1	490.9	490.4	489.8	489.2	488.6	488.0
132.5°	516.4	516.2	515.9	515.7	515.4	515.1	515.0
135°	554.4	554.1	553.7	553.3	552.8	552.4	552.0
137.5°	591.1	590.6	590.5	590.6	590.6	590.7	590.9
140°	615.4	615.3	615.2	615.0	614.8	614.7	614.6
142.5°	638.4	638.4	638.3	638.3	638.3	638.3	638.3
145°	672.7	672.5	672.2	671.8	671.3	670.9	670.5
147.5°	703.9	703.7	703.6	703.4	703.3	703.2	703.0
150°	723.6	723.6	723.5	723.4	723.2	723.1	722.9
152.5°	742.4	742.8	742.8	742.4	742.0	741.7	741.2
155°	768.4	769.0	769.0	768.4	767.8	767.2	766.7
157.5°	791.1	791.5	791.4	791.0	790.5	790.0	789.5
160°	805.0	805.5	805.4	804.6	803.8	803.1	802.4
162.5°	817.9	818.8	818.8	818.0	817.3	816.6	815.8
165°	834.7	835.6	835.7	835.1	834.5	833.9	833.4
167.5°	848.7	849.5	849.5	848.6	847.7	846.8	845.8
170°	856.2	857.1	857.0	856.0	855.0	853.9	852.8
172.5°	861.9	863.0	863.0	861.9	860.8	859.8	858.8
175°	868.1	869.2	869.2	868.1	867.0	866.0	865.0
177.5°	871.2	872.1	872.0	871.1	870.1	869.2	868.1
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3

(END OF REPORT)