

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: P331438-830

Luminaire Tested: **SA2XXDIP-C1005D725U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331438-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 725 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

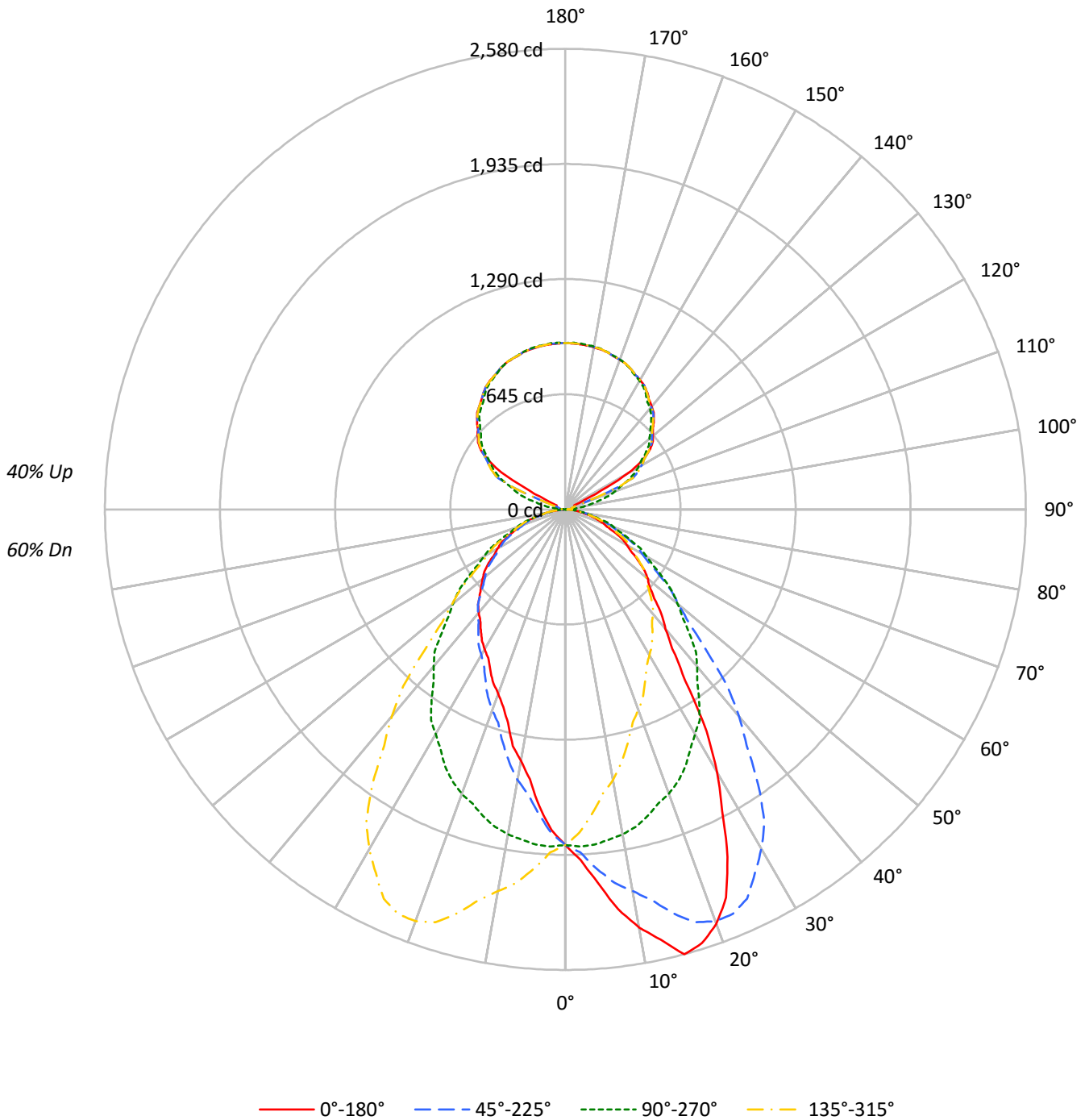
Lumens per Lamp: N/A
Luminaire Lumens: 6879.4 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	0
RCR																		
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	101	96	93	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	55	53	50	49	44
3	84	75	68	62	79	71	64	59	62	57	53	54	51	48	47	44	42	38
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	42	39	37	33
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	32	29
6	66	54	46	40	62	51	44	39	46	40	35	40	36	32	35	32	29	26
7	61	49	41	36	57	47	39	34	41	36	31	37	32	29	32	29	26	23
8	57	45	37	32	53	43	36	31	38	32	28	34	29	26	30	26	23	21
9	53	41	34	29	50	39	32	28	35	29	25	31	27	23	28	24	21	19
10	50	38	31	26	47	36	29	25	32	27	23	29	24	21	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30344	30344	30344	30344
5°	34020	30543	27067	30543
10°	38984	30293	23423	30293
15°	43127	29737	20694	29737
20°	42471	29141	18866	29141
25°	38297	28349	17706	28349
30°	31646	27082	16861	27082
35°	23065	25754	16259	25754
40°	18421	24190	15924	24190
45°	16098	22379	15470	22379
50°	15131	20627	15169	20627
55°	13948	18849	14762	18849
60°	12784	16956	14134	16956
65°	11645	15259	13521	15259
70°	10570	13605	12619	13605
75°	9370	11759	11179	11759
80°	8061	9735	9000	9735
85°	7225	7225	5354	7225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	2.6
10°-20°	520.4	7.6
20°-30°	755.2	11.0
30°-40°	796.9	11.6
40°-50°	705.6	10.3
50°-60°	563.1	8.2
60°-70°	382.7	5.6
70°-80°	196.2	2.9
80°-90°	49.6	0.7
90°-100°	31.1	0.5
100°-110°	114.0	1.7
110°-120°	304.7	4.4
120°-130°	502.9	7.3
130°-140°	534.9	7.8
140°-150°	497.1	7.2
150°-160°	399.7	5.8
160°-170°	257.6	3.7
170°-180°	88.7	1.3
0°-30°	1454.6	21.1
0°-40°	2251.5	32.7
0°-60°	3520.2	51.2
0°-90°	4148.8	60.3
90°-120°	449.7	6.5
90°-150°	1984.7	28.8
90°-180°	2731.0	39.7
0°-180°	6879.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1879	1879	1879	1879	1879	
5°	2099	1884	1670	1884	2099	210
15°	2580	1779	1238	1779	2580	712
25°	2150	1591	994	1591	2150	972
35°	1170	1307	825	1307	1170	761
45°	705	980	678	980	705	554
55°	496	670	524	670	496	444
65°	305	399	354	399	305	303
75°	150	188	179	188	150	161
85°	39	39	29	39	39	43
90°	18	1	18	1	18	10
95°	29	44	29	44	29	27
105°	51	205	51	205	51	53
115°	55	388	55	388	55	138
125°	576	548	576	548	576	499
135°	700	678	700	678	700	540
145°	799	787	799	787	799	500
155°	867	866	867	866	867	400
165°	911	913	911	913	911	257
175°	928	934	928	934	928	88
180°	932	932	932	932	932	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1966.1	1966.7	1967.8	1958.6	1957.5	1957.5	1949.4	1942.5	1934.4	1923.4	1924.6
5°	2099.0	2107.0	2109.9	2101.2	2088.2	2086.8	2074.5	2054.3	2035.5	2020.3	2009.5
7.5°	2257.7	2260.9	2253.8	2242.4	2232.7	2215.4	2192.5	2170.1	2138.8	2110.1	2088.7
10°	2377.8	2382.2	2369.9	2353.3	2339.6	2319.4	2286.1	2252.2	2211.0	2171.3	2139.5
12.5°	2469.2	2479.8	2464.1	2461.9	2438.5	2410.6	2371.1	2353.9	2295.9	2240.6	2206.6
15°	2580.1	2579.4	2580.9	2567.1	2549.8	2545.4	2503.6	2458.1	2376.4	2343.9	2287.6
17.5°	2548.1	2559.0	2564.1	2563.9	2563.5	2560.8	2547.3	2518.6	2477.7	2425.0	2359.9
20°	2471.8	2486.2	2488.4	2505.0	2514.4	2526.7	2531.8	2523.8	2498.5	2454.5	2398.1
22.5°	2353.9	2358.0	2364.7	2390.6	2410.9	2441.8	2457.8	2484.4	2474.8	2453.2	2406.2
25°	2149.7	2142.4	2167.7	2180.7	2227.6	2276.7	2312.2	2351.2	2385.9	2406.8	2393.0
27.5°	1904.3	1893.5	1931.4	1965.9	2004.0	2057.2	2112.3	2177.5	2231.7	2299.4	2322.7
30°	1697.4	1703.9	1740.0	1776.9	1834.7	1909.8	1971.9	2043.4	2120.7	2196.6	2249.3
32.5°	1474.4	1499.4	1522.2	1578.7	1629.6	1713.4	1804.3	1893.8	1990.2	2076.4	2158.0
35°	1170.2	1199.0	1230.9	1272.0	1343.5	1426.5	1515.4	1636.1	1767.6	1885.3	1982.1
37.5°	985.0	980.3	998.5	1028.3	1086.2	1153.3	1255.6	1374.7	1529.5	1667.8	1804.3
40°	874.0	871.1	884.1	911.5	955.6	1004.8	1094.3	1199.0	1342.7	1511.8	1674.3
42.5°	797.8	799.5	806.7	826.0	856.2	896.6	963.7	1052.8	1184.5	1343.7	1518.3
45°	705.0	710.0	718.0	727.4	744.7	778.0	815.5	879.1	983.1	1116.0	1287.9
47.5°	638.2	638.4	646.5	654.7	665.0	683.7	714.4	754.2	827.6	935.9	1083.6
50°	602.4	597.4	603.1	609.6	620.5	633.5	653.7	691.3	740.4	827.7	951.3
52.5°	558.5	558.6	563.8	566.3	576.0	589.0	607.5	633.5	678.0	746.3	847.8
55°	495.5	499.1	502.0	506.3	515.0	524.4	538.9	556.2	590.9	642.2	717.3
57.5°	436.3	437.4	440.4	448.6	454.0	462.7	476.5	492.2	514.7	552.7	609.2
60°	395.9	395.9	401.6	405.2	412.5	421.1	432.0	447.1	467.3	498.4	543.9
62.5°	358.8	358.3	360.6	366.5	372.0	380.1	390.9	403.8	422.8	450.4	487.9
65°	304.8	303.4	307.7	309.2	314.9	322.9	331.6	345.3	360.4	380.7	413.9
67.5°	252.8	254.6	256.8	259.6	262.8	271.2	276.9	286.6	299.4	316.2	338.7
70°	223.9	223.9	223.9	226.1	230.5	234.8	240.5	248.5	260.8	275.2	295.4
72.5°	191.5	193.9	196.1	194.9	200.4	202.9	209.9	214.4	226.1	235.4	253.3
75°	150.2	150.2	150.2	153.8	156.0	158.2	162.5	166.8	172.7	184.2	193.6
77.5°	112.1	111.8	112.5	113.4	115.7	118.3	119.6	123.5	128.8	134.2	142.1
80°	86.7	88.1	88.9	90.3	90.3	91.7	92.5	97.6	101.1	104.7	109.8
82.5°	67.0	67.3	67.5	67.8	68.3	69.2	71.1	72.7	74.0	77.0	80.9
85°	39.0	38.3	38.3	39.7	39.0	39.0	40.4	41.8	41.8	42.6	44.8
87.5°	18.7	18.6	19.1	18.5	18.4	18.9	18.8	18.0	18.5	18.9	19.2
90°	18.2	17.9	17.6	17.3	17.0	16.5	15.7	15.0	14.2	13.5	12.3
92.5°	18.2	18.0	17.8	17.6	17.5	17.2	16.8	16.4	16.0	15.6	15.1
95°	29.0	29.1	29.3	29.4	29.6	29.3	28.6	27.8	27.1	26.3	25.3
97.5°	38.7	38.5	38.4	38.2	38.0	37.6	36.9	36.4	35.8	35.2	32.8
100°	45.1	44.9	44.6	44.3	44.0	43.3	42.0	40.8	39.6	38.5	35.9
102.5°	48.4	48.0	47.6	47.1	46.8	45.7	44.2	42.6	41.1	39.5	60.8
105°	51.3	50.6	50.0	49.5	48.8	47.7	46.1	44.4	42.8	41.1	82.0
107.5°	52.7	52.1	51.6	50.9	50.3	50.9	52.5	54.2	55.9	57.6	106.6
110°	53.3	52.7	52.0	51.5	50.9	58.1	73.0	88.0	103.0	118.0	161.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	53.8	53.3	52.9	52.4	51.8	79.0	133.7	188.3	243.0	297.6	308.3
115°	55.3	66.1	76.8	87.7	98.4	138.6	207.9	277.3	346.7	416.0	412.3
117.5°	225.7	261.2	296.6	332.1	367.5	393.6	410.4	427.3	444.0	460.8	458.2
120°	411.3	431.5	451.8	471.9	492.2	501.4	499.6	497.9	496.0	494.2	491.5
122.5°	513.2	517.2	521.0	525.0	529.0	530.4	529.2	528.2	527.1	526.0	523.1
125°	576.5	576.0	575.6	575.1	574.7	573.9	572.9	571.8	570.8	569.8	566.8
127.5°	616.4	616.3	616.2	616.1	616.0	615.2	613.7	612.2	610.7	609.1	607.0
130°	641.2	641.3	641.5	641.7	641.8	641.0	639.4	637.7	636.1	634.4	632.8
132.5°	665.4	665.6	665.8	665.9	666.1	665.4	664.0	662.6	661.2	659.8	658.2
135°	700.5	700.8	701.2	701.4	701.7	701.2	699.6	698.1	696.6	695.1	693.8
137.5°	732.4	733.0	733.5	734.1	734.5	734.1	732.5	731.1	729.6	728.2	726.6
140°	752.4	753.2	753.9	754.7	755.4	755.2	753.8	752.4	751.1	749.8	748.1
142.5°	771.8	772.6	773.4	774.1	774.9	774.6	773.4	772.1	770.9	769.7	767.8
145°	799.0	799.7	800.5	801.3	801.9	801.8	800.8	799.7	798.7	797.6	795.0
147.5°	822.8	823.5	824.1	824.7	825.4	825.3	824.5	823.7	822.9	822.2	819.6
150°	837.4	838.1	838.9	839.6	840.4	840.3	839.4	838.5	837.6	836.7	834.3
152.5°	849.8	850.8	851.8	852.8	853.8	853.8	852.9	852.0	851.1	850.2	847.9
155°	867.0	868.3	869.5	870.6	871.9	872.0	871.1	870.2	869.3	868.4	866.6
157.5°	882.9	884.0	885.1	886.4	887.5	887.6	886.6	885.5	884.6	883.5	882.2
160°	892.0	893.1	894.1	895.1	896.2	896.3	895.4	894.5	893.6	892.7	891.7
162.5°	899.6	900.9	902.1	903.4	904.7	904.8	903.8	902.8	901.8	900.8	900.0
165°	910.9	911.9	912.9	914.1	915.1	915.1	914.1	912.9	911.9	910.9	910.4
167.5°	918.0	919.4	920.8	922.1	923.4	923.6	922.6	921.5	920.4	919.4	919.0
170°	922.4	923.7	925.0	926.4	927.7	927.9	926.8	925.8	924.7	923.7	923.4
172.5°	925.6	926.9	928.3	929.6	930.9	931.1	930.1	929.1	928.0	926.9	926.6
175°	928.4	929.9	931.4	932.9	934.4	934.6	933.6	932.6	931.5	930.5	930.1
177.5°	930.2	931.2	932.4	933.4	934.5	934.6	933.8	932.9	932.1	931.2	931.1
180°	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1928.6	1924.0	1921.1	1910.7	1901.4	1892.2	1889.3	1890.5	1877.7	1865.6	1860.4
5°	2003.8	1989.2	1975.6	1956.1	1933.0	1907.6	1894.6	1884.5	1859.3	1831.8	1815.9
7.5°	2071.0	2050.4	2023.9	1987.3	1953.6	1913.8	1888.6	1866.1	1829.2	1790.5	1766.8
10°	2112.0	2083.9	2049.9	2005.2	1964.0	1915.6	1881.6	1847.7	1804.3	1758.1	1729.2
12.5°	2147.3	2109.3	2075.9	2018.5	1969.7	1909.2	1869.0	1821.1	1775.5	1720.5	1692.2
15°	2231.3	2161.2	2097.6	2032.6	1972.6	1888.1	1843.3	1779.0	1719.1	1651.2	1618.7
17.5°	2296.1	2217.3	2117.2	2034.7	1964.7	1871.1	1805.3	1728.3	1657.5	1579.9	1535.7
20°	2333.1	2242.8	2135.1	2036.9	1953.1	1846.3	1774.7	1696.0	1613.0	1525.5	1477.9
22.5°	2355.0	2260.1	2153.7	2028.3	1930.0	1826.0	1736.0	1649.7	1565.6	1471.2	1421.3
25°	2362.0	2275.3	2162.7	2021.1	1901.1	1783.4	1675.1	1591.3	1489.4	1401.3	1328.3
27.5°	2327.6	2265.5	2157.1	2007.4	1867.7	1730.1	1609.3	1514.4	1406.9	1311.3	1237.9
30°	2285.4	2249.3	2143.8	1993.6	1841.2	1693.1	1560.2	1452.6	1345.7	1248.9	1173.7
32.5°	2220.2	2212.3	2119.6	1974.0	1812.9	1646.3	1508.8	1400.0	1281.6	1186.5	1114.8
35°	2091.9	2126.5	2068.0	1930.0	1759.5	1579.7	1430.9	1306.6	1183.9	1092.9	1025.7
37.5°	1920.0	2006.0	1990.7	1865.8	1687.6	1507.2	1342.9	1213.1	1096.1	1004.2	938.3
40°	1801.5	1911.3	1927.1	1816.7	1636.8	1451.1	1277.1	1147.7	1033.6	949.9	883.4
42.5°	1674.3	1802.6	1846.3	1757.7	1581.3	1392.2	1218.1	1084.2	971.2	889.8	830.9
45°	1461.2	1631.0	1709.8	1659.2	1488.7	1295.1	1116.0	980.1	877.6	801.1	755.5
47.5°	1262.1	1447.6	1553.4	1535.5	1385.7	1194.0	1016.9	886.6	786.7	725.7	684.9
50°	1121.1	1311.7	1439.5	1445.4	1311.7	1121.7	944.1	821.2	729.5	672.5	639.2
52.5°	998.5	1180.5	1319.9	1350.6	1229.1	1046.6	878.7	756.6	675.8	623.4	593.6
55°	838.6	992.5	1147.1	1203.3	1105.9	932.6	777.2	669.6	593.7	557.6	531.6
57.5°	697.2	825.5	968.2	1030.5	970.3	822.0	676.4	582.9	521.4	489.7	469.8
60°	622.6	723.8	850.9	925.3	873.3	741.1	614.0	525.1	474.6	446.4	427.6
62.5°	553.3	642.9	750.4	818.4	790.0	665.4	551.6	473.2	429.5	403.0	389.5
65°	456.5	527.3	610.4	673.2	654.4	559.8	466.7	399.4	364.8	343.8	333.0
67.5°	375.9	427.1	484.7	539.7	524.5	457.5	382.7	330.4	304.5	286.4	279.9
70°	325.1	364.0	415.4	459.4	447.1	392.2	333.0	288.2	265.8	250.6	244.1
72.5°	276.5	308.6	347.7	383.7	375.4	329.8	280.4	246.6	229.4	215.4	210.1
75°	208.8	233.3	257.1	281.0	278.8	243.5	214.5	188.5	174.8	164.0	161.8
77.5°	154.1	167.9	184.1	198.2	194.3	174.1	151.4	136.5	126.4	119.1	118.0
80°	117.7	125.6	137.2	147.3	142.3	133.7	115.6	104.7	97.6	90.3	87.4
82.5°	85.4	93.3	100.3	105.8	101.9	93.8	82.7	75.3	71.0	66.0	64.8
85°	44.8	49.1	52.0	53.4	52.0	46.9	41.8	39.0	35.4	33.3	32.5
87.5°	19.5	19.3	19.0	20.0	17.9	17.5	14.9	12.8	12.6	12.3	11.5
90°	11.1	9.9	8.7	7.3	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	14.4	13.9	13.3	13.0	13.2	13.3	13.5	13.6	13.5	13.3	13.2
95°	24.2	23.2	22.1	24.0	29.0	33.9	38.9	43.8	38.9	33.9	29.0
97.5°	30.3	27.9	25.4	31.2	45.1	59.1	73.0	87.0	73.0	59.1	45.1
100°	33.4	30.8	28.3	37.2	57.8	78.3	98.8	119.3	98.8	78.3	57.8
102.5°	82.1	103.4	124.7	137.5	141.9	146.3	150.6	155.0	150.6	146.3	141.9
105°	122.9	163.8	204.7	222.9	218.5	214.0	209.4	205.0	209.4	214.0	218.5
107.5°	155.7	204.7	253.8	276.5	272.9	269.3	265.6	262.0	265.6	269.3	272.9
110°	204.6	247.9	291.2	311.2	308.1	305.0	301.8	298.7	301.8	305.0	308.1



TEST NUMBER: P331438-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	319.0	329.7	340.4	344.3	341.6	338.7	336.0	333.2	336.0	338.7	341.6
115°	408.5	404.7	401.1	397.8	395.3	392.8	390.2	387.7	390.2	392.8	395.3
117.5°	455.6	453.1	450.4	447.7	444.9	442.1	439.2	436.4	439.2	442.1	444.9
120°	488.8	486.2	483.4	481.0	478.7	476.5	474.2	471.9	474.2	476.5	478.7
122.5°	520.2	517.3	514.3	511.6	509.3	506.9	504.5	502.2	504.5	506.9	509.3
125°	564.0	561.2	558.4	555.9	554.0	552.0	550.1	548.2	550.1	552.0	554.0
127.5°	604.8	602.8	600.6	598.4	596.3	594.2	592.0	589.8	592.0	594.2	596.3
130°	631.1	629.5	627.8	625.8	623.4	621.0	618.7	616.2	618.7	621.0	623.4
132.5°	656.5	654.9	653.2	651.4	649.3	647.3	645.3	643.2	645.3	647.3	649.3
135°	692.4	691.1	689.8	687.9	685.5	683.1	680.7	678.3	680.7	683.1	685.5
137.5°	725.1	723.6	722.1	720.5	718.8	717.1	715.4	713.8	715.4	717.1	718.8
140°	746.5	744.8	743.2	741.7	740.6	739.3	738.1	737.0	738.1	739.3	740.6
142.5°	765.9	764.0	762.1	760.6	759.6	758.6	757.4	756.4	757.4	758.6	759.6
145°	792.5	789.9	787.4	786.3	786.4	786.6	786.6	786.8	786.6	786.6	786.4
147.5°	817.1	814.6	812.1	811.2	811.7	812.3	812.8	813.4	812.8	812.3	811.7
150°	831.9	829.5	827.2	826.4	827.6	828.6	829.6	830.7	829.6	828.6	827.6
152.5°	845.6	843.4	841.1	840.6	841.7	842.9	844.0	845.2	844.0	842.9	841.7
155°	864.8	863.0	861.2	861.0	862.3	863.7	865.1	866.4	865.1	863.7	862.3
157.5°	881.0	879.8	878.4	878.4	879.6	880.7	881.8	883.0	881.8	880.7	879.6
160°	890.9	889.9	889.1	889.1	889.9	890.9	891.7	892.7	891.7	890.9	889.9
162.5°	899.2	898.4	897.7	897.7	898.6	899.6	900.4	901.4	900.4	899.6	898.6
165°	910.0	909.6	909.1	909.3	910.2	911.2	912.0	912.9	912.0	911.2	910.2
167.5°	918.5	918.1	917.7	917.9	918.9	919.7	920.7	921.5	920.7	919.7	918.9
170°	923.1	922.8	922.5	922.8	923.7	924.6	925.5	926.4	925.5	924.6	923.7
172.5°	926.3	926.0	925.8	926.0	926.9	927.8	928.7	929.6	928.7	927.8	926.9
175°	929.8	929.5	929.3	929.6	930.7	931.7	932.7	933.8	932.7	931.7	930.7
177.5°	931.0	930.9	930.8	931.1	932.0	932.8	933.7	934.5	933.7	932.8	932.0
180°	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8



TEST NUMBER: P331438-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1854.6	1851.2	1839.0	1832.7	1822.3	1812.4	1806.1	1809.0	1811.3	1810.2	1808.4
5°	1801.5	1787.7	1766.8	1748.7	1735.7	1711.9	1701.8	1696.8	1692.4	1687.3	1682.2
7.5°	1738.1	1716.6	1686.5	1660.8	1636.4	1606.8	1590.0	1579.9	1569.4	1558.0	1547.9
10°	1693.1	1662.7	1631.0	1594.9	1566.0	1539.3	1515.4	1499.5	1485.1	1471.4	1461.2
12.5°	1645.8	1610.8	1571.5	1522.1	1490.3	1452.0	1448.4	1420.4	1397.8	1389.3	1377.4
15°	1570.3	1521.2	1471.4	1412.9	1387.6	1352.9	1331.2	1309.6	1290.1	1276.3	1272.7
17.5°	1484.7	1421.1	1371.5	1329.5	1288.1	1252.5	1232.6	1215.2	1199.2	1180.8	1178.4
20°	1419.4	1364.4	1310.3	1273.5	1230.9	1194.7	1170.2	1152.8	1139.1	1128.2	1118.9
22.5°	1357.5	1297.4	1247.8	1207.6	1165.5	1136.3	1117.0	1100.2	1088.8	1076.9	1068.0
25°	1258.3	1211.4	1157.2	1111.6	1076.9	1058.2	1042.3	1027.8	1020.7	1012.7	1002.6
27.5°	1171.5	1119.3	1068.6	1033.3	1002.9	986.3	975.0	965.2	958.4	953.8	948.0
30°	1110.2	1057.4	1017.8	983.1	957.8	941.2	934.0	928.2	920.2	917.4	914.5
32.5°	1051.2	1003.7	969.8	939.7	915.6	904.7	898.1	893.0	886.7	883.8	878.1
35°	967.9	928.2	894.9	878.4	858.8	849.4	844.4	837.2	831.4	828.5	827.7
37.5°	889.5	855.0	833.1	811.7	803.5	797.8	790.8	785.9	784.2	783.7	783.0
40°	838.6	810.4	791.0	773.6	770.0	761.3	755.5	751.2	751.2	752.0	751.2
42.5°	792.4	767.1	749.9	734.9	730.7	725.5	719.7	719.4	720.6	723.0	720.6
45°	722.4	704.3	692.0	684.8	676.8	671.8	671.0	673.2	673.9	674.7	676.8
47.5°	657.9	645.9	634.8	626.8	623.4	622.5	621.6	625.4	628.9	630.2	633.5
50°	619.7	606.1	596.6	591.5	588.7	587.2	588.7	593.0	595.9	599.6	601.7
52.5°	577.0	567.3	560.8	556.9	555.7	556.7	556.9	561.8	566.5	567.8	568.7
55°	517.9	510.7	509.3	502.8	505.6	504.9	508.5	511.4	515.8	520.1	520.8
57.5°	458.9	453.2	449.3	449.9	450.7	453.9	456.9	462.0	466.7	471.3	471.6
60°	419.7	416.8	414.6	414.6	416.0	420.4	424.0	429.0	432.0	434.8	437.0
62.5°	383.8	381.0	378.8	379.9	383.7	386.3	390.5	393.2	396.2	399.0	400.0
65°	327.3	325.7	327.9	329.4	330.1	333.8	338.7	340.9	343.8	345.3	350.3
67.5°	275.0	275.3	275.0	277.1	281.3	282.1	286.9	292.0	292.6	295.3	298.6
70°	239.8	241.3	242.7	244.1	247.8	249.2	252.8	255.0	257.9	260.0	262.2
72.5°	207.5	207.7	209.2	208.9	211.9	215.1	218.1	220.3	223.2	225.9	228.1
75°	159.7	159.7	161.1	161.8	165.4	169.0	168.3	169.8	172.7	175.5	177.0
77.5°	116.6	115.0	116.6	117.3	118.5	121.5	122.1	124.1	127.4	126.4	128.0
80°	88.9	86.7	88.9	89.5	89.5	93.2	93.2	94.6	96.8	94.6	96.8
82.5°	63.4	62.4	64.0	64.2	65.3	65.4	66.6	66.9	69.1	68.1	69.1
85°	31.8	31.1	31.8	31.1	31.8	32.5	32.5	31.8	31.8	33.3	31.1
87.5°	11.3	11.0	10.7	10.8	10.6	10.2	9.8	9.9	10.1	9.0	9.1
90°	7.3	8.7	9.9	11.1	12.3	13.5	14.2	15.0	15.7	16.5	17.0
92.5°	13.0	13.3	13.9	14.4	15.1	15.6	16.0	16.4	16.8	17.2	17.5
95°	24.0	22.1	23.2	24.2	25.3	26.3	27.1	27.8	28.6	29.3	29.6
97.5°	31.2	25.4	27.9	30.3	32.8	35.2	35.8	36.4	36.9	37.6	38.0
100°	37.2	28.3	30.8	33.4	35.9	38.5	39.6	40.8	42.0	43.3	44.0
102.5°	137.5	124.7	103.4	82.1	60.8	39.5	41.1	42.6	44.2	45.7	46.8
105°	222.9	204.7	163.8	122.9	82.0	41.1	42.8	44.4	46.1	47.7	48.8
107.5°	276.5	253.8	204.7	155.7	106.6	57.6	55.9	54.2	52.5	50.9	50.3
110°	311.2	291.2	247.9	204.6	161.3	118.0	103.0	88.0	73.0	58.1	50.9



TEST NUMBER: P331438-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	344.3	340.4	329.7	319.0	308.3	297.6	243.0	188.3	133.7	79.0	51.8
115°	397.8	401.1	404.7	408.5	412.3	416.0	346.7	277.3	207.9	138.6	98.4
117.5°	447.7	450.4	453.1	455.6	458.2	460.8	444.0	427.3	410.4	393.6	367.5
120°	481.0	483.4	486.2	488.8	491.5	494.2	496.0	497.9	499.6	501.4	492.2
122.5°	511.6	514.3	517.3	520.2	523.1	526.0	527.1	528.2	529.2	530.4	529.0
125°	555.9	558.4	561.2	564.0	566.8	569.8	570.8	571.8	572.9	573.9	574.7
127.5°	598.4	600.6	602.8	604.8	607.0	609.1	610.7	612.2	613.7	615.2	616.0
130°	625.8	627.8	629.5	631.1	632.8	634.4	636.1	637.7	639.4	641.0	641.8
132.5°	651.4	653.2	654.9	656.5	658.2	659.8	661.2	662.6	664.0	665.4	666.1
135°	687.9	689.8	691.1	692.4	693.8	695.1	696.6	698.1	699.6	701.2	701.7
137.5°	720.5	722.1	723.6	725.1	726.6	728.2	729.6	731.1	732.5	734.1	734.5
140°	741.7	743.2	744.8	746.5	748.1	749.8	751.1	752.4	753.8	755.2	755.4
142.5°	760.6	762.1	764.0	765.9	767.8	769.7	770.9	772.1	773.4	774.6	774.9
145°	786.3	787.4	789.9	792.5	795.0	797.6	798.7	799.7	800.8	801.8	801.9
147.5°	811.2	812.1	814.6	817.1	819.6	822.2	822.9	823.7	824.5	825.3	825.4
150°	826.4	827.2	829.5	831.9	834.3	836.7	837.6	838.5	839.4	840.3	840.4
152.5°	840.6	841.1	843.4	845.6	847.9	850.2	851.1	852.0	852.9	853.8	853.8
155°	861.0	861.2	863.0	864.8	866.6	868.4	869.3	870.2	871.1	872.0	871.9
157.5°	878.4	878.4	879.8	881.0	882.2	883.5	884.6	885.5	886.6	887.6	887.5
160°	889.1	889.1	889.9	890.9	891.7	892.7	893.6	894.5	895.4	896.3	896.2
162.5°	897.7	897.7	898.4	899.2	900.0	900.8	901.8	902.8	903.8	904.8	904.7
165°	909.3	909.1	909.6	910.0	910.4	910.9	911.9	912.9	914.1	915.1	915.1
167.5°	917.9	917.7	918.1	918.5	919.0	919.4	920.4	921.5	922.6	923.6	923.4
170°	922.8	922.5	922.8	923.1	923.4	923.7	924.7	925.8	926.8	927.9	927.7
172.5°	926.0	925.8	926.0	926.3	926.6	926.9	928.0	929.1	930.1	931.1	930.9
175°	929.6	929.3	929.5	929.8	930.1	930.5	931.5	932.6	933.6	934.6	934.4
177.5°	931.1	930.8	930.9	931.0	931.1	931.2	932.1	932.9	933.8	934.6	934.5
180°	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8



TEST NUMBER: P331438-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1802.6	1801.5	1801.5	1796.3	1801.5	1801.5	1802.6	1808.4	1810.2	1811.3	1809.0
5°	1672.2	1670.0	1666.4	1670.0	1666.4	1670.0	1672.2	1682.2	1687.3	1692.4	1696.8
7.5°	1543.1	1534.5	1533.2	1524.7	1533.2	1534.5	1543.1	1547.9	1558.0	1569.4	1579.9
10°	1449.0	1443.2	1442.5	1428.7	1442.5	1443.2	1449.0	1461.2	1471.4	1485.1	1499.5
12.5°	1377.3	1363.5	1366.2	1358.2	1366.2	1363.5	1377.3	1377.4	1389.3	1397.8	1420.4
15°	1253.2	1253.2	1250.4	1238.0	1250.4	1253.2	1253.2	1272.7	1276.3	1290.1	1309.6
17.5°	1164.1	1162.6	1155.7	1159.1	1155.7	1162.6	1164.1	1178.4	1180.8	1199.2	1215.2
20°	1110.9	1106.6	1098.0	1098.0	1098.0	1106.6	1110.9	1118.9	1128.2	1139.1	1152.8
22.5°	1060.6	1060.4	1051.1	1054.0	1051.1	1060.4	1060.6	1068.0	1076.9	1088.8	1100.2
25°	1001.8	996.1	991.7	993.9	991.7	996.1	1001.8	1002.6	1012.7	1020.7	1027.8
27.5°	946.1	942.9	942.6	936.7	942.6	942.9	946.1	948.0	953.8	958.4	965.2
30°	913.7	906.5	908.0	904.4	908.0	906.5	913.7	914.5	917.4	920.2	928.2
32.5°	876.8	874.1	872.7	869.7	872.7	874.1	876.8	878.1	883.8	886.7	893.0
35°	826.3	827.1	823.4	824.9	823.4	827.1	826.3	827.7	828.5	831.4	837.2
37.5°	782.3	784.6	782.9	783.3	782.9	784.6	782.3	783.0	783.7	784.2	785.9
40°	753.4	753.4	753.4	755.5	753.4	753.4	753.4	751.2	752.0	751.2	751.2
42.5°	725.7	724.5	723.3	723.2	723.3	724.5	725.7	720.6	723.0	720.6	719.4
45°	678.3	680.4	681.2	677.5	681.2	680.4	678.3	676.8	674.7	673.9	673.2
47.5°	635.4	635.7	635.4	638.6	635.4	635.7	635.4	633.5	630.2	628.9	625.4
50°	605.3	603.9	605.3	603.9	605.3	603.9	605.3	601.7	599.6	595.9	593.0
52.5°	573.5	573.8	573.0	572.7	573.0	573.8	573.5	568.7	567.8	566.5	561.8
55°	523.7	525.1	524.4	524.4	524.4	525.1	523.7	520.8	520.1	515.8	511.4
57.5°	472.1	473.4	474.4	471.3	474.4	473.4	472.1	471.6	471.3	466.7	462.0
60°	436.3	439.9	439.1	437.7	439.1	439.9	436.3	437.0	434.8	432.0	429.0
62.5°	403.3	404.6	404.5	404.3	404.5	404.6	403.3	400.0	399.0	396.2	393.2
65°	352.5	353.9	351.8	353.9	351.8	353.9	352.5	350.3	345.3	343.8	340.9
67.5°	297.7	298.2	299.7	300.8	299.7	298.2	297.7	298.6	295.3	292.6	292.0
70°	263.6	263.0	265.1	267.3	265.1	263.0	263.6	262.2	260.0	257.9	255.0
72.5°	227.8	229.4	228.7	230.3	228.7	229.4	227.8	228.1	225.9	223.2	220.3
75°	175.5	177.7	177.0	179.2	177.0	177.7	175.5	177.0	175.5	172.7	169.8
77.5°	126.9	127.1	126.9	128.0	126.9	127.1	126.9	128.0	126.4	127.4	124.1
80°	96.8	95.4	93.9	96.8	93.9	95.4	96.8	96.8	94.6	96.8	94.6
82.5°	67.3	68.1	66.7	66.7	66.7	68.1	67.3	69.1	68.1	69.1	66.9
85°	31.1	30.3	28.9	28.9	28.9	30.3	31.1	31.1	33.3	31.8	31.8
87.5°	9.2	8.8	8.8	8.3	8.8	8.8	9.2	9.1	9.0	10.1	9.9
90°	17.3	17.6	17.9	18.2	17.9	17.6	17.3	17.0	16.5	15.7	15.0
92.5°	17.6	17.8	18.0	18.2	18.0	17.8	17.6	17.5	17.2	16.8	16.4
95°	29.4	29.3	29.1	29.0	29.1	29.3	29.4	29.6	29.3	28.6	27.8
97.5°	38.2	38.4	38.5	38.7	38.5	38.4	38.2	38.0	37.6	36.9	36.4
100°	44.3	44.6	44.9	45.1	44.9	44.6	44.3	44.0	43.3	42.0	40.8
102.5°	47.1	47.6	48.0	48.4	48.0	47.6	47.1	46.8	45.7	44.2	42.6
105°	49.5	50.0	50.6	51.3	50.6	50.0	49.5	48.8	47.7	46.1	44.4
107.5°	50.9	51.6	52.1	52.7	52.1	51.6	50.9	50.3	50.9	52.5	54.2
110°	51.5	52.0	52.7	53.3	52.7	52.0	51.5	50.9	58.1	73.0	88.0



TEST NUMBER: P331438-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	52.4	52.9	53.3	53.8	53.3	52.9	52.4	51.8	79.0	133.7	188.3
115°	87.7	76.8	66.1	55.3	66.1	76.8	87.7	98.4	138.6	207.9	277.3
117.5°	332.1	296.6	261.2	225.7	261.2	296.6	332.1	367.5	393.6	410.4	427.3
120°	471.9	451.8	431.5	411.3	431.5	451.8	471.9	492.2	501.4	499.6	497.9
122.5°	525.0	521.0	517.2	513.2	517.2	521.0	525.0	529.0	530.4	529.2	528.2
125°	575.1	575.6	576.0	576.5	576.0	575.6	575.1	574.7	573.9	572.9	571.8
127.5°	616.1	616.2	616.3	616.4	616.3	616.2	616.1	616.0	615.2	613.7	612.2
130°	641.7	641.5	641.3	641.2	641.3	641.5	641.7	641.8	641.0	639.4	637.7
132.5°	665.9	665.8	665.6	665.4	665.6	665.8	665.9	666.1	665.4	664.0	662.6
135°	701.4	701.2	700.8	700.5	700.8	701.2	701.4	701.7	701.2	699.6	698.1
137.5°	734.1	733.5	733.0	732.4	733.0	733.5	734.1	734.5	734.1	732.5	731.1
140°	754.7	753.9	753.2	752.4	753.2	753.9	754.7	755.4	755.2	753.8	752.4
142.5°	774.1	773.4	772.6	771.8	772.6	773.4	774.1	774.9	774.6	773.4	772.1
145°	801.3	800.5	799.7	799.0	799.7	800.5	801.3	801.9	801.8	800.8	799.7
147.5°	824.7	824.1	823.5	822.8	823.5	824.1	824.7	825.4	825.3	824.5	823.7
150°	839.6	838.9	838.1	837.4	838.1	838.9	839.6	840.4	840.3	839.4	838.5
152.5°	852.8	851.8	850.8	849.8	850.8	851.8	852.8	853.8	853.8	852.9	852.0
155°	870.6	869.5	868.3	867.0	868.3	869.5	870.6	871.9	872.0	871.1	870.2
157.5°	886.4	885.1	884.0	882.9	884.0	885.1	886.4	887.5	887.6	886.6	885.5
160°	895.1	894.1	893.1	892.0	893.1	894.1	895.1	896.2	896.3	895.4	894.5
162.5°	903.4	902.1	900.9	899.6	900.9	902.1	903.4	904.7	904.8	903.8	902.8
165°	914.1	912.9	911.9	910.9	911.9	912.9	914.1	915.1	915.1	914.1	912.9
167.5°	922.1	920.8	919.4	918.0	919.4	920.8	922.1	923.4	923.6	922.6	921.5
170°	926.4	925.0	923.7	922.4	923.7	925.0	926.4	927.7	927.9	926.8	925.8
172.5°	929.6	928.3	926.9	925.6	926.9	928.3	929.6	930.9	931.1	930.1	929.1
175°	932.9	931.4	929.9	928.4	929.9	931.4	932.9	934.4	934.6	933.6	932.6
177.5°	933.4	932.4	931.2	930.2	931.2	932.4	933.4	934.5	934.6	933.8	932.9
180°	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8



TEST NUMBER: P331438-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1806.1	1812.4	1822.3	1832.7	1839.0	1851.2	1854.6	1860.4	1865.6	1877.7	1890.5
5°	1701.8	1711.9	1735.7	1748.7	1766.8	1787.7	1801.5	1815.9	1831.8	1859.3	1884.5
7.5°	1590.0	1606.8	1636.4	1660.8	1686.5	1716.6	1738.1	1766.8	1790.5	1829.2	1866.1
10°	1515.4	1539.3	1566.0	1594.9	1631.0	1662.7	1693.1	1729.2	1758.1	1804.3	1847.7
12.5°	1448.4	1452.0	1490.3	1522.1	1571.5	1610.8	1645.8	1692.2	1720.5	1775.5	1821.1
15°	1331.2	1352.9	1387.6	1412.9	1471.4	1521.2	1570.3	1618.7	1651.2	1719.1	1779.0
17.5°	1232.6	1252.5	1288.1	1329.5	1371.5	1421.1	1484.7	1535.7	1579.9	1657.5	1728.3
20°	1170.2	1194.7	1230.9	1273.5	1310.3	1364.4	1419.4	1477.9	1525.5	1613.0	1696.0
22.5°	1117.0	1136.3	1165.5	1207.6	1247.8	1297.4	1357.5	1421.3	1471.2	1565.6	1649.7
25°	1042.3	1058.2	1076.9	1111.6	1157.2	1211.4	1258.3	1328.3	1401.3	1489.4	1591.3
27.5°	975.0	986.3	1002.9	1033.3	1068.6	1119.3	1171.5	1237.9	1311.3	1406.9	1514.4
30°	934.0	941.2	957.8	983.1	1017.8	1057.4	1110.2	1173.7	1248.9	1345.7	1452.6
32.5°	898.1	904.7	915.6	939.7	969.8	1003.7	1051.2	1114.8	1186.5	1281.6	1400.0
35°	844.4	849.4	858.8	878.4	894.9	928.2	967.9	1025.7	1092.9	1183.9	1306.6
37.5°	790.8	797.8	803.5	811.7	833.1	855.0	889.5	938.3	1004.2	1096.1	1213.1
40°	755.5	761.3	770.0	773.6	791.0	810.4	838.6	883.4	949.9	1033.6	1147.7
42.5°	719.7	725.5	730.7	734.9	749.9	767.1	792.4	830.9	889.8	971.2	1084.2
45°	671.0	671.8	676.8	684.8	692.0	704.3	722.4	755.5	801.1	877.6	980.1
47.5°	621.6	622.5	623.4	626.8	634.8	645.9	657.9	684.9	725.7	786.7	886.6
50°	588.7	587.2	588.7	591.5	596.6	606.1	619.7	639.2	672.5	729.5	821.2
52.5°	556.9	556.7	555.7	556.9	560.8	567.3	577.0	593.6	623.4	675.8	756.6
55°	508.5	504.9	505.6	502.8	509.3	510.7	517.9	531.6	557.6	593.7	669.6
57.5°	456.9	453.9	450.7	449.9	449.3	453.2	458.9	469.8	489.7	521.4	582.9
60°	424.0	420.4	416.0	414.6	414.6	416.8	419.7	427.6	446.4	474.6	525.1
62.5°	390.5	386.3	383.7	379.9	378.8	381.0	383.8	389.5	403.0	429.5	473.2
65°	338.7	333.8	330.1	329.4	327.9	325.7	327.3	333.0	343.8	364.8	399.4
67.5°	286.9	282.1	281.3	277.1	275.0	275.3	275.0	279.9	286.4	304.5	330.4
70°	252.8	249.2	247.8	244.1	242.7	241.3	239.8	244.1	250.6	265.8	288.2
72.5°	218.1	215.1	211.9	208.9	209.2	207.7	207.5	210.1	215.4	229.4	246.6
75°	168.3	169.0	165.4	161.8	161.1	159.7	159.7	161.8	164.0	174.8	188.5
77.5°	122.1	121.5	118.5	117.3	116.6	115.0	116.6	118.0	119.1	126.4	136.5
80°	93.2	93.2	89.5	89.5	88.9	86.7	88.9	87.4	90.3	97.6	104.7
82.5°	66.6	65.4	65.3	64.2	64.0	62.4	63.4	64.8	66.0	71.0	75.3
85°	32.5	32.5	31.8	31.1	31.8	31.1	31.8	32.5	33.3	35.4	39.0
87.5°	9.8	10.2	10.6	10.8	10.7	11.0	11.3	11.5	12.3	12.6	12.8
90°	14.2	13.5	12.3	11.1	9.9	8.7	7.3	5.7	4.0	2.4	0.7
92.5°	16.0	15.6	15.1	14.4	13.9	13.3	13.0	13.2	13.3	13.5	13.6
95°	27.1	26.3	25.3	24.2	23.2	22.1	24.0	29.0	33.9	38.9	43.8
97.5°	35.8	35.2	32.8	30.3	27.9	25.4	31.2	45.1	59.1	73.0	87.0
100°	39.6	38.5	35.9	33.4	30.8	28.3	37.2	57.8	78.3	98.8	119.3
102.5°	41.1	39.5	60.8	82.1	103.4	124.7	137.5	141.9	146.3	150.6	155.0
105°	42.8	41.1	82.0	122.9	163.8	204.7	222.9	218.5	214.0	209.4	205.0
107.5°	55.9	57.6	106.6	155.7	204.7	253.8	276.5	272.9	269.3	265.6	262.0
110°	103.0	118.0	161.3	204.6	247.9	291.2	311.2	308.1	305.0	301.8	298.7



TEST NUMBER: P331438-830
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	243.0	297.6	308.3	319.0	329.7	340.4	344.3	341.6	338.7	336.0	333.2
115°	346.7	416.0	412.3	408.5	404.7	401.1	397.8	395.3	392.8	390.2	387.7
117.5°	444.0	460.8	458.2	455.6	453.1	450.4	447.7	444.9	442.1	439.2	436.4
120°	496.0	494.2	491.5	488.8	486.2	483.4	481.0	478.7	476.5	474.2	471.9
122.5°	527.1	526.0	523.1	520.2	517.3	514.3	511.6	509.3	506.9	504.5	502.2
125°	570.8	569.8	566.8	564.0	561.2	558.4	555.9	554.0	552.0	550.1	548.2
127.5°	610.7	609.1	607.0	604.8	602.8	600.6	598.4	596.3	594.2	592.0	589.8
130°	636.1	634.4	632.8	631.1	629.5	627.8	625.8	623.4	621.0	618.7	616.2
132.5°	661.2	659.8	658.2	656.5	654.9	653.2	651.4	649.3	647.3	645.3	643.2
135°	696.6	695.1	693.8	692.4	691.1	689.8	687.9	685.5	683.1	680.7	678.3
137.5°	729.6	728.2	726.6	725.1	723.6	722.1	720.5	718.8	717.1	715.4	713.8
140°	751.1	749.8	748.1	746.5	744.8	743.2	741.7	740.6	739.3	738.1	737.0
142.5°	770.9	769.7	767.8	765.9	764.0	762.1	760.6	759.6	758.6	757.4	756.4
145°	798.7	797.6	795.0	792.5	789.9	787.4	786.3	786.4	786.6	786.6	786.8
147.5°	822.9	822.2	819.6	817.1	814.6	812.1	811.2	811.7	812.3	812.8	813.4
150°	837.6	836.7	834.3	831.9	829.5	827.2	826.4	827.6	828.6	829.6	830.7
152.5°	851.1	850.2	847.9	845.6	843.4	841.1	840.6	841.7	842.9	844.0	845.2
155°	869.3	868.4	866.6	864.8	863.0	861.2	861.0	862.3	863.7	865.1	866.4
157.5°	884.6	883.5	882.2	881.0	879.8	878.4	878.4	879.6	880.7	881.8	883.0
160°	893.6	892.7	891.7	890.9	889.9	889.1	889.1	889.9	890.9	891.7	892.7
162.5°	901.8	900.8	900.0	899.2	898.4	897.7	897.7	898.6	899.6	900.4	901.4
165°	911.9	910.9	910.4	910.0	909.6	909.1	909.3	910.2	911.2	912.0	912.9
167.5°	920.4	919.4	919.0	918.5	918.1	917.7	917.9	918.9	919.7	920.7	921.5
170°	924.7	923.7	923.4	923.1	922.8	922.5	922.8	923.7	924.6	925.5	926.4
172.5°	928.0	926.9	926.6	926.3	926.0	925.8	926.0	926.9	927.8	928.7	929.6
175°	931.5	930.5	930.1	929.8	929.5	929.3	929.6	930.7	931.7	932.7	933.8
177.5°	932.1	931.2	931.1	931.0	930.9	930.8	931.1	932.0	932.8	933.7	934.5
180°	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8



TEST NUMBER: P331438-830

CATALOG NUMBER: SA2XXDIP-C1005D725U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1889.3	1892.2	1901.4	1910.7	1921.1	1924.0	1928.6	1924.6	1923.4	1934.4	1942.5
5°	1894.6	1907.6	1933.0	1956.1	1975.6	1989.2	2003.8	2009.5	2020.3	2035.5	2054.3
7.5°	1888.6	1913.8	1953.6	1987.3	2023.9	2050.4	2071.0	2088.7	2110.1	2138.8	2170.1
10°	1881.6	1915.6	1964.0	2005.2	2049.9	2083.9	2112.0	2139.5	2171.3	2211.0	2252.2
12.5°	1869.0	1909.2	1969.7	2018.5	2075.9	2109.3	2147.3	2206.6	2240.6	2295.9	2353.9
15°	1843.3	1888.1	1972.6	2032.6	2097.6	2161.2	2231.3	2287.6	2343.9	2376.4	2458.1
17.5°	1805.3	1871.1	1964.7	2034.7	2117.2	2217.3	2296.1	2359.9	2425.0	2477.7	2518.6
20°	1774.7	1846.3	1953.1	2036.9	2135.1	2242.8	2333.1	2398.1	2454.5	2498.5	2523.8
22.5°	1736.0	1826.0	1930.0	2028.3	2153.7	2260.1	2355.0	2406.2	2453.2	2474.8	2484.4
25°	1675.1	1783.4	1901.1	2021.1	2162.7	2275.3	2362.0	2393.0	2406.8	2385.9	2351.2
27.5°	1609.3	1730.1	1867.7	2007.4	2157.1	2265.5	2327.6	2322.7	2299.4	2231.7	2177.5
30°	1560.2	1693.1	1841.2	1993.6	2143.8	2249.3	2285.4	2249.3	2196.6	2120.7	2043.4
32.5°	1508.8	1646.3	1812.9	1974.0	2119.6	2212.3	2220.2	2158.0	2076.4	1990.2	1893.8
35°	1430.9	1579.7	1759.5	1930.0	2068.0	2126.5	2091.9	1982.1	1885.3	1767.6	1636.1
37.5°	1342.9	1507.2	1687.6	1865.8	1990.7	2006.0	1920.0	1804.3	1667.8	1529.5	1374.7
40°	1277.1	1451.1	1636.8	1816.7	1927.1	1911.3	1801.5	1674.3	1511.8	1342.7	1199.0
42.5°	1218.1	1392.2	1581.3	1757.7	1846.3	1802.6	1674.3	1518.3	1343.7	1184.5	1052.8
45°	1116.0	1295.1	1488.7	1659.2	1709.8	1631.0	1461.2	1287.9	1116.0	983.1	879.1
47.5°	1016.9	1194.0	1385.7	1535.5	1553.4	1447.6	1262.1	1083.6	935.9	827.6	754.2
50°	944.1	1121.7	1311.7	1445.4	1439.5	1311.7	1121.1	951.3	827.7	740.4	691.3
52.5°	878.7	1046.6	1229.1	1350.6	1319.9	1180.5	998.5	847.8	746.3	678.0	633.5
55°	777.2	932.6	1105.9	1203.3	1147.1	992.5	838.6	717.3	642.2	590.9	556.2
57.5°	676.4	822.0	970.3	1030.5	968.2	825.5	697.2	609.2	552.7	514.7	492.2
60°	614.0	741.1	873.3	925.3	850.9	723.8	622.6	543.9	498.4	467.3	447.1
62.5°	551.6	665.4	790.0	818.4	750.4	642.9	553.3	487.9	450.4	422.8	403.8
65°	466.7	559.8	654.4	673.2	610.4	527.3	456.5	413.9	380.7	360.4	345.3
67.5°	382.7	457.5	524.5	539.7	484.7	427.1	375.9	338.7	316.2	299.4	286.6
70°	333.0	392.2	447.1	459.4	415.4	364.0	325.1	295.4	275.2	260.8	248.5
72.5°	280.4	329.8	375.4	383.7	347.7	308.6	276.5	253.3	235.4	226.1	214.4
75°	214.5	243.5	278.8	281.0	257.1	233.3	208.8	193.6	184.2	172.7	166.8
77.5°	151.4	174.1	194.3	198.2	184.1	167.9	154.1	142.1	134.2	128.8	123.5
80°	115.6	133.7	142.3	147.3	137.2	125.6	117.7	109.8	104.7	101.1	97.6
82.5°	82.7	93.8	101.9	105.8	100.3	93.3	85.4	80.9	77.0	74.0	72.7
85°	41.8	46.9	52.0	53.4	52.0	49.1	44.8	44.8	42.6	41.8	41.8
87.5°	14.9	17.5	17.9	20.0	19.0	19.3	19.5	19.2	18.9	18.5	18.0
90°	2.4	4.0	5.7	7.3	8.7	9.9	11.1	12.3	13.5	14.2	15.0
92.5°	13.5	13.3	13.2	13.0	13.3	13.9	14.4	15.1	15.6	16.0	16.4
95°	38.9	33.9	29.0	24.0	22.1	23.2	24.2	25.3	26.3	27.1	27.8
97.5°	73.0	59.1	45.1	31.2	25.4	27.9	30.3	32.8	35.2	35.8	36.4
100°	98.8	78.3	57.8	37.2	28.3	30.8	33.4	35.9	38.5	39.6	40.8
102.5°	150.6	146.3	141.9	137.5	124.7	103.4	82.1	60.8	39.5	41.1	42.6
105°	209.4	214.0	218.5	222.9	204.7	163.8	122.9	82.0	41.1	42.8	44.4
107.5°	265.6	269.3	272.9	276.5	253.8	204.7	155.7	106.6	57.6	55.9	54.2
110°	301.8	305.0	308.1	311.2	291.2	247.9	204.6	161.3	118.0	103.0	88.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	336.0	338.7	341.6	344.3	340.4	329.7	319.0	308.3	297.6	243.0	188.3
115°	390.2	392.8	395.3	397.8	401.1	404.7	408.5	412.3	416.0	346.7	277.3
117.5°	439.2	442.1	444.9	447.7	450.4	453.1	455.6	458.2	460.8	444.0	427.3
120°	474.2	476.5	478.7	481.0	483.4	486.2	488.8	491.5	494.2	496.0	497.9
122.5°	504.5	506.9	509.3	511.6	514.3	517.3	520.2	523.1	526.0	527.1	528.2
125°	550.1	552.0	554.0	555.9	558.4	561.2	564.0	566.8	569.8	570.8	571.8
127.5°	592.0	594.2	596.3	598.4	600.6	602.8	604.8	607.0	609.1	610.7	612.2
130°	618.7	621.0	623.4	625.8	627.8	629.5	631.1	632.8	634.4	636.1	637.7
132.5°	645.3	647.3	649.3	651.4	653.2	654.9	656.5	658.2	659.8	661.2	662.6
135°	680.7	683.1	685.5	687.9	689.8	691.1	692.4	693.8	695.1	696.6	698.1
137.5°	715.4	717.1	718.8	720.5	722.1	723.6	725.1	726.6	728.2	729.6	731.1
140°	738.1	739.3	740.6	741.7	743.2	744.8	746.5	748.1	749.8	751.1	752.4
142.5°	757.4	758.6	759.6	760.6	762.1	764.0	765.9	767.8	769.7	770.9	772.1
145°	786.6	786.6	786.4	786.3	787.4	789.9	792.5	795.0	797.6	798.7	799.7
147.5°	812.8	812.3	811.7	811.2	812.1	814.6	817.1	819.6	822.2	822.9	823.7
150°	829.6	828.6	827.6	826.4	827.2	829.5	831.9	834.3	836.7	837.6	838.5
152.5°	844.0	842.9	841.7	840.6	841.1	843.4	845.6	847.9	850.2	851.1	852.0
155°	865.1	863.7	862.3	861.0	861.2	863.0	864.8	866.6	868.4	869.3	870.2
157.5°	881.8	880.7	879.6	878.4	878.4	879.8	881.0	882.2	883.5	884.6	885.5
160°	891.7	890.9	889.9	889.1	889.1	889.9	890.9	891.7	892.7	893.6	894.5
162.5°	900.4	899.6	898.6	897.7	897.7	898.4	899.2	900.0	900.8	901.8	902.8
165°	912.0	911.2	910.2	909.3	909.1	909.6	910.0	910.4	910.9	911.9	912.9
167.5°	920.7	919.7	918.9	917.9	917.7	918.1	918.5	919.0	919.4	920.4	921.5
170°	925.5	924.6	923.7	922.8	922.5	922.8	923.1	923.4	923.7	924.7	925.8
172.5°	928.7	927.8	926.9	926.0	925.8	926.0	926.3	926.6	926.9	928.0	929.1
175°	932.7	931.7	930.7	929.6	929.3	929.5	929.8	930.1	930.5	931.5	932.6
177.5°	933.7	932.8	932.0	931.1	930.8	930.9	931.0	931.1	931.2	932.1	932.9
180°	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4	1879.4
2.5°	1949.4	1957.5	1957.5	1958.6	1967.8	1966.7	1966.1
5°	2074.5	2086.8	2088.2	2101.2	2109.9	2107.0	2099.0
7.5°	2192.5	2215.4	2232.7	2242.4	2253.8	2260.9	2257.7
10°	2286.1	2319.4	2339.6	2353.3	2369.9	2382.2	2377.8
12.5°	2371.1	2410.6	2438.5	2461.9	2464.1	2479.8	2469.2
15°	2503.6	2545.4	2549.8	2567.1	2580.9	2579.4	2580.1
17.5°	2547.3	2560.8	2563.5	2563.9	2564.1	2559.0	2548.1
20°	2531.8	2526.7	2514.4	2505.0	2488.4	2486.2	2471.8
22.5°	2457.8	2441.8	2410.9	2390.6	2364.7	2358.0	2353.9
25°	2312.2	2276.7	2227.6	2180.7	2167.7	2142.4	2149.7
27.5°	2112.3	2057.2	2004.0	1965.9	1931.4	1893.5	1904.3
30°	1971.9	1909.8	1834.7	1776.9	1740.0	1703.9	1697.4
32.5°	1804.3	1713.4	1629.6	1578.7	1522.2	1499.4	1474.4
35°	1515.4	1426.5	1343.5	1272.0	1230.9	1199.0	1170.2
37.5°	1255.6	1153.3	1086.2	1028.3	998.5	980.3	985.0
40°	1094.3	1004.8	955.6	911.5	884.1	871.1	874.0
42.5°	963.7	896.6	856.2	826.0	806.7	799.5	797.8
45°	815.5	778.0	744.7	727.4	718.0	710.0	705.0
47.5°	714.4	683.7	665.0	654.7	646.5	638.4	638.2
50°	653.7	633.5	620.5	609.6	603.1	597.4	602.4
52.5°	607.5	589.0	576.0	566.3	563.8	558.6	558.5
55°	538.9	524.4	515.0	506.3	502.0	499.1	495.5
57.5°	476.5	462.7	454.0	448.6	440.4	437.4	436.3
60°	432.0	421.1	412.5	405.2	401.6	395.9	395.9
62.5°	390.9	380.1	372.0	366.5	360.6	358.3	358.8
65°	331.6	322.9	314.9	309.2	307.7	303.4	304.8
67.5°	276.9	271.2	262.8	259.6	256.8	254.6	252.8
70°	240.5	234.8	230.5	226.1	223.9	223.9	223.9
72.5°	209.9	202.9	200.4	194.9	196.1	193.9	191.5
75°	162.5	158.2	156.0	153.8	150.2	150.2	150.2
77.5°	119.6	118.3	115.7	113.4	112.5	111.8	112.1
80°	92.5	91.7	90.3	90.3	88.9	88.1	86.7
82.5°	71.1	69.2	68.3	67.8	67.5	67.3	67.0
85°	40.4	39.0	39.0	39.7	38.3	38.3	39.0
87.5°	18.8	18.9	18.4	18.5	19.1	18.6	18.7
90°	15.7	16.5	17.0	17.3	17.6	17.9	18.2
92.5°	16.8	17.2	17.5	17.6	17.8	18.0	18.2
95°	28.6	29.3	29.6	29.4	29.3	29.1	29.0
97.5°	36.9	37.6	38.0	38.2	38.4	38.5	38.7
100°	42.0	43.3	44.0	44.3	44.6	44.9	45.1
102.5°	44.2	45.7	46.8	47.1	47.6	48.0	48.4
105°	46.1	47.7	48.8	49.5	50.0	50.6	51.3
107.5°	52.5	50.9	50.3	50.9	51.6	52.1	52.7
110°	73.0	58.1	50.9	51.5	52.0	52.7	53.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	133.7	79.0	51.8	52.4	52.9	53.3	53.8
115°	207.9	138.6	98.4	87.7	76.8	66.1	55.3
117.5°	410.4	393.6	367.5	332.1	296.6	261.2	225.7
120°	499.6	501.4	492.2	471.9	451.8	431.5	411.3
122.5°	529.2	530.4	529.0	525.0	521.0	517.2	513.2
125°	572.9	573.9	574.7	575.1	575.6	576.0	576.5
127.5°	613.7	615.2	616.0	616.1	616.2	616.3	616.4
130°	639.4	641.0	641.8	641.7	641.5	641.3	641.2
132.5°	664.0	665.4	666.1	665.9	665.8	665.6	665.4
135°	699.6	701.2	701.7	701.4	701.2	700.8	700.5
137.5°	732.5	734.1	734.5	734.1	733.5	733.0	732.4
140°	753.8	755.2	755.4	754.7	753.9	753.2	752.4
142.5°	773.4	774.6	774.9	774.1	773.4	772.6	771.8
145°	800.8	801.8	801.9	801.3	800.5	799.7	799.0
147.5°	824.5	825.3	825.4	824.7	824.1	823.5	822.8
150°	839.4	840.3	840.4	839.6	838.9	838.1	837.4
152.5°	852.9	853.8	853.8	852.8	851.8	850.8	849.8
155°	871.1	872.0	871.9	870.6	869.5	868.3	867.0
157.5°	886.6	887.6	887.5	886.4	885.1	884.0	882.9
160°	895.4	896.3	896.2	895.1	894.1	893.1	892.0
162.5°	903.8	904.8	904.7	903.4	902.1	900.9	899.6
165°	914.1	915.1	915.1	914.1	912.9	911.9	910.9
167.5°	922.6	923.6	923.4	922.1	920.8	919.4	918.0
170°	926.8	927.9	927.7	926.4	925.0	923.7	922.4
172.5°	930.1	931.1	930.9	929.6	928.3	926.9	925.6
175°	933.6	934.6	934.4	932.9	931.4	929.9	928.4
177.5°	933.8	934.6	934.5	933.4	932.4	931.2	930.2
180°	931.8	931.8	931.8	931.8	931.8	931.8	931.8

(END OF REPORT)