

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: P331591-830

Luminaire Tested: **S122DIW-S1005D710U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331591-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S1005D710U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6821.1 lumens
Efficiency: N/A
Efficacy: 114.1 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

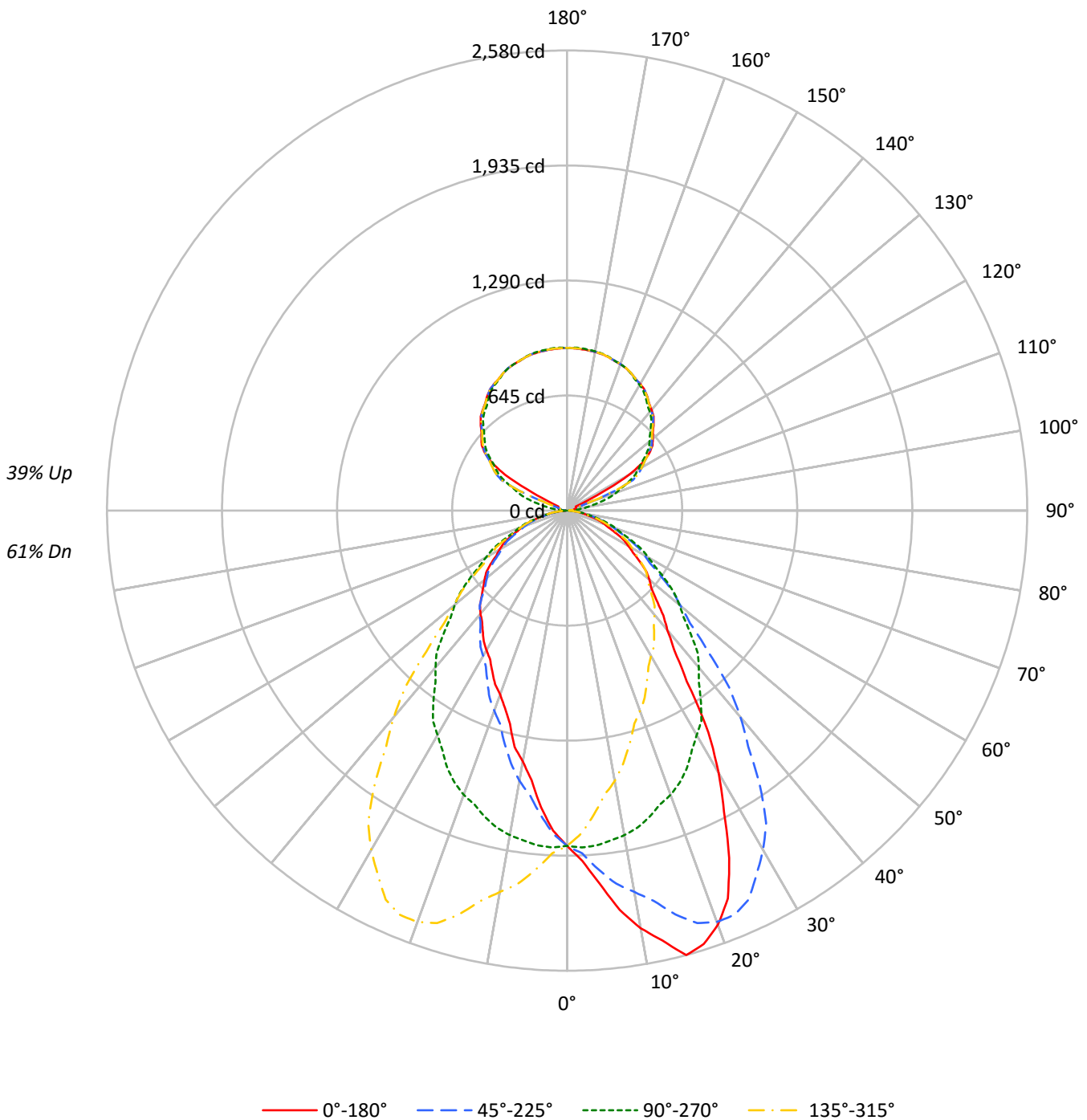
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	89	89	77	77	77	66	66	66	61
1	101	97	93	90	94	91	87	84	79	77	75	69	67	66	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	85	75	68	62	79	71	65	59	62	58	54	55	51	48	47	45	42	39
4	78	67	59	53	73	63	56	51	56	50	46	49	45	41	43	40	37	34
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	33	30
6	66	54	46	41	62	51	44	39	46	40	36	40	36	32	35	32	29	26
7	61	49	41	36	57	47	40	34	42	36	32	37	32	29	33	29	26	24
8	57	45	37	32	54	43	36	31	38	32	28	34	29	26	30	26	24	21
9	53	41	34	29	50	39	32	28	35	30	26	31	27	23	28	24	21	19
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	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	11.1
30°-40°	796.9	11.7
40°-50°	705.6	10.3
50°-60°	563.1	8.3
60°-70°	382.7	5.6
70°-80°	196.2	2.9
80°-90°	49.6	0.7
90°-100°	30.4	0.4
100°-110°	111.6	1.6
110°-120°	298.2	4.4
120°-130°	492.2	7.2
130°-140°	523.5	7.7
140°-150°	486.5	7.1
150°-160°	391.2	5.7
160°-170°	252.1	3.7
170°-180°	86.8	1.3
0°-30°	1454.6	21.3
0°-40°	2251.5	33.0
0°-60°	3520.2	51.6
0°-90°	4148.7	60.8
90°-120°	440.1	6.5
90°-150°	1942.3	28.5
90°-180°	2672.0	39.2
0°-180°	6821.1	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°	28	43	28	43	28	26
105°	50	201	50	201	50	52
115°	54	379	54	379	54	136
125°	564	536	564	536	564	488
135°	686	664	686	664	686	528
145°	782	770	782	770	782	489
155°	849	848	849	848	849	392
165°	892	893	892	893	892	252
175°	909	914	909	914	909	87
180°	912	912	912	912	912	



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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°	18.6	18.6	19.0	18.4	18.4	18.9	18.7	18.0	18.4	18.9	19.1
90°	17.8	17.5	17.2	17.0	16.7	16.1	15.4	14.7	13.9	13.2	12.1
92.5°	17.8	17.6	17.4	17.2	17.2	16.9	16.5	16.1	15.6	15.3	14.7
95°	28.4	28.6	28.7	28.8	28.9	28.7	27.9	27.2	26.5	25.7	24.7
97.5°	37.9	37.7	37.5	37.3	37.1	36.8	36.2	35.6	35.1	34.4	32.0
100°	44.2	43.9	43.6	43.4	43.1	42.3	41.1	40.0	38.7	37.6	35.2
102.5°	47.4	46.9	46.6	46.2	45.7	44.8	43.3	41.8	40.2	38.6	35.5
105°	50.1	49.6	49.0	48.4	47.8	46.7	45.1	43.5	41.8	40.2	38.3
107.5°	51.6	51.0	50.4	49.9	49.3	49.8	51.5	53.1	54.7	56.4	104.3
110°	52.1	51.6	51.0	50.3	49.8	56.8	71.4	86.1	100.9	115.5	157.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	52.7	52.2	51.7	51.3	50.8	77.3	130.8	184.3	237.8	291.2	301.7
115°	54.1	64.7	75.2	85.8	96.3	135.5	203.4	271.4	339.2	407.1	403.4
117.5°	220.9	255.6	290.3	325.0	359.7	385.2	401.6	418.1	434.5	450.9	448.4
120°	402.5	422.3	442.1	461.8	481.6	490.7	488.9	487.2	485.4	483.6	481.0
122.5°	502.3	506.1	509.9	513.8	517.6	519.1	517.9	516.9	515.9	514.8	511.9
125°	564.1	563.7	563.3	562.8	562.4	561.7	560.6	559.6	558.6	557.5	554.8
127.5°	603.2	603.1	603.0	602.9	602.9	602.1	600.6	599.1	597.6	596.1	594.0
130°	627.5	627.6	627.8	627.9	628.1	627.4	625.8	624.2	622.5	620.9	619.3
132.5°	651.3	651.4	651.6	651.7	651.9	651.2	649.9	648.5	647.1	645.7	644.1
135°	685.6	685.9	686.2	686.5	686.7	686.2	684.7	683.2	681.7	680.3	679.0
137.5°	716.8	717.4	717.8	718.3	718.9	718.4	716.9	715.5	714.1	712.7	711.1
140°	736.4	737.1	737.8	738.6	739.3	739.0	737.7	736.4	735.1	733.8	732.1
142.5°	755.4	756.1	756.9	757.6	758.3	758.1	756.9	755.6	754.5	753.3	751.4
145°	781.9	782.6	783.3	784.1	784.9	784.7	783.6	782.6	781.7	780.6	778.1
147.5°	805.2	805.9	806.5	807.1	807.8	807.7	806.9	806.2	805.4	804.6	802.1
150°	819.5	820.2	821.0	821.7	822.5	822.4	821.5	820.6	819.7	818.9	816.5
152.5°	831.6	832.6	833.6	834.5	835.6	835.6	834.7	833.8	832.9	832.1	829.8
155°	848.6	849.7	850.9	852.1	853.2	853.4	852.5	851.6	850.7	849.9	848.1
157.5°	863.9	865.2	866.3	867.4	868.6	868.6	867.6	866.7	865.6	864.6	863.4
160°	873.0	874.0	875.0	876.0	877.0	877.1	876.3	875.3	874.5	873.6	872.7
162.5°	880.3	881.6	882.9	884.1	885.4	885.5	884.5	883.5	882.5	881.6	880.8
165°	891.5	892.5	893.5	894.5	895.5	895.5	894.5	893.5	892.5	891.5	891.0
167.5°	898.4	899.8	901.1	902.4	903.7	903.8	902.9	901.8	900.8	899.8	899.4
170°	902.7	904.0	905.3	906.6	908.0	908.0	907.0	906.1	905.0	904.0	903.7
172.5°	905.8	907.1	908.4	909.7	911.1	911.3	910.2	909.2	908.1	907.1	906.8
175°	908.6	910.0	911.5	912.9	914.5	914.6	913.6	912.7	911.6	910.6	910.3
177.5°	910.3	911.3	912.4	913.5	914.5	914.6	913.8	913.0	912.2	911.3	911.3
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



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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	19.2	19.0	19.9	17.8	17.5	14.9	12.8	12.6	12.3	11.5
90°	10.8	9.7	8.5	7.1	5.5	3.9	2.3	0.7	2.3	3.9	5.5
92.5°	14.1	13.6	13.0	12.7	12.9	13.0	13.2	13.3	13.2	13.0	12.9
95°	23.7	22.6	21.6	23.6	28.4	33.2	38.1	42.9	38.1	33.2	28.4
97.5°	29.7	27.3	25.0	30.5	44.2	57.9	71.4	85.1	71.4	57.9	44.2
100°	32.6	30.2	27.6	36.5	56.6	76.6	96.7	116.8	96.7	76.6	56.6
102.5°	80.4	101.2	122.1	134.6	138.8	143.1	147.4	151.7	147.4	143.1	138.8
105°	120.3	160.3	200.4	218.2	213.8	209.4	205.0	200.6	205.0	209.4	213.8
107.5°	152.4	200.4	248.4	270.6	267.0	263.5	260.0	256.4	260.0	263.5	267.0
110°	200.2	242.6	284.9	304.6	301.5	298.5	295.4	292.3	295.4	298.5	301.5



TEST NUMBER: P331591-830

CATALOG NUMBER: S122DIW-S1005D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	312.2	322.6	333.1	337.0	334.2	331.6	328.9	326.1	328.9	331.6	334.2
115°	399.8	396.2	392.5	389.4	386.9	384.4	381.9	379.4	381.9	384.4	386.9
117.5°	445.9	443.4	440.8	438.2	435.4	432.6	429.8	427.1	429.8	432.6	435.4
120°	478.3	475.7	473.1	470.7	468.4	466.3	464.1	461.8	464.1	466.3	468.4
122.5°	509.1	506.1	503.3	500.7	498.4	496.1	493.8	491.4	493.8	496.1	498.4
125°	552.0	549.2	546.4	544.0	542.2	540.3	538.4	536.4	538.4	540.3	542.2
127.5°	591.9	589.8	587.8	585.7	583.5	581.5	579.3	577.2	579.3	581.5	583.5
130°	617.6	616.0	614.4	612.5	610.1	607.8	605.4	603.0	605.4	607.8	610.1
132.5°	642.4	640.8	639.2	637.4	635.5	633.5	631.5	629.5	631.5	633.5	635.5
135°	677.7	676.4	675.0	673.2	670.8	668.5	666.1	663.8	666.1	668.5	670.8
137.5°	709.6	708.1	706.6	705.0	703.4	701.8	700.1	698.5	700.1	701.8	703.4
140°	730.5	728.9	727.3	725.9	724.7	723.5	722.4	721.2	722.4	723.5	724.7
142.5°	749.6	747.7	745.8	744.4	743.4	742.3	741.2	740.2	741.2	742.3	743.4
145°	775.6	773.1	770.6	769.4	769.6	769.8	769.9	770.1	769.9	769.8	769.6
147.5°	799.7	797.2	794.8	793.8	794.4	794.9	795.5	796.0	795.5	794.9	794.4
150°	814.2	811.8	809.5	808.8	809.8	810.9	811.9	812.9	811.9	810.9	809.8
152.5°	827.6	825.4	823.1	822.6	823.7	824.9	826.0	827.2	826.0	824.9	823.7
155°	846.3	844.6	842.8	842.6	844.0	845.3	846.6	847.9	846.6	845.3	844.0
157.5°	862.1	860.9	859.7	859.7	860.7	861.9	863.0	864.1	863.0	861.9	860.7
160°	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6	872.7	871.9	871.0
162.5°	880.1	879.2	878.4	878.5	879.4	880.3	881.2	882.0	881.2	880.3	879.4
165°	890.5	890.1	889.7	889.9	890.8	891.6	892.5	893.4	892.5	891.6	890.8
167.5°	898.9	898.5	898.1	898.3	899.2	900.1	901.0	901.8	901.0	900.1	899.2
170°	903.4	903.1	902.8	903.1	904.0	904.8	905.7	906.6	905.7	904.8	904.0
172.5°	906.5	906.3	906.0	906.3	907.1	908.0	908.9	909.7	908.9	908.0	907.1
175°	910.0	909.6	909.4	909.7	910.8	911.8	912.9	913.9	912.9	911.8	910.8
177.5°	911.2	911.0	910.9	911.3	912.1	912.9	913.7	914.5	913.7	912.9	912.1
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331591-830

CATALOG NUMBER: S122DIW-S1005D710U830-4F0-1E-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°	11.2	10.9	10.6	10.8	10.5	10.2	9.7	9.9	10.0	9.0	9.1
90°	7.1	8.5	9.7	10.8	12.1	13.2	13.9	14.7	15.4	16.1	16.7
92.5°	12.7	13.0	13.6	14.1	14.7	15.3	15.6	16.1	16.5	16.9	17.2
95°	23.6	21.6	22.6	23.7	24.7	25.7	26.5	27.2	27.9	28.7	28.9
97.5°	30.5	25.0	27.3	29.7	32.0	34.4	35.1	35.6	36.2	36.8	37.1
100°	36.5	27.6	30.2	32.6	35.2	37.6	38.7	40.0	41.1	42.3	43.1
102.5°	134.6	122.1	101.2	80.4	59.5	38.6	40.2	41.8	43.3	44.8	45.7
105°	218.2	200.4	160.3	120.3	80.3	40.2	41.8	43.5	45.1	46.7	47.8
107.5°	270.6	248.4	200.4	152.4	104.3	56.4	54.7	53.1	51.5	49.8	49.3
110°	304.6	284.9	242.6	200.2	157.9	115.5	100.9	86.1	71.4	56.8	49.8



TEST NUMBER: P331591-830

CATALOG NUMBER: S122DIW-S1005D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	337.0	333.1	322.6	312.2	301.7	291.2	237.8	184.3	130.8	77.3	50.8
115°	389.4	392.5	396.2	399.8	403.4	407.1	339.2	271.4	203.4	135.5	96.3
117.5°	438.2	440.8	443.4	445.9	448.4	450.9	434.5	418.1	401.6	385.2	359.7
120°	470.7	473.1	475.7	478.3	481.0	483.6	485.4	487.2	488.9	490.7	481.6
122.5°	500.7	503.3	506.1	509.1	511.9	514.8	515.9	516.9	517.9	519.1	517.6
125°	544.0	546.4	549.2	552.0	554.8	557.5	558.6	559.6	560.6	561.7	562.4
127.5°	585.7	587.8	589.8	591.9	594.0	596.1	597.6	599.1	600.6	602.1	602.9
130°	612.5	614.4	616.0	617.6	619.3	620.9	622.5	624.2	625.8	627.4	628.1
132.5°	637.4	639.2	640.8	642.4	644.1	645.7	647.1	648.5	649.9	651.2	651.9
135°	673.2	675.0	676.4	677.7	679.0	680.3	681.7	683.2	684.7	686.2	686.7
137.5°	705.0	706.6	708.1	709.6	711.1	712.7	714.1	715.5	716.9	718.4	718.9
140°	725.9	727.3	728.9	730.5	732.1	733.8	735.1	736.4	737.7	739.0	739.3
142.5°	744.4	745.8	747.7	749.6	751.4	753.3	754.5	755.6	756.9	758.1	758.3
145°	769.4	770.6	773.1	775.6	778.1	780.6	781.7	782.6	783.6	784.7	784.9
147.5°	793.8	794.8	797.2	799.7	802.1	804.6	805.4	806.2	806.9	807.7	807.8
150°	808.8	809.5	811.8	814.2	816.5	818.9	819.7	820.6	821.5	822.4	822.5
152.5°	822.6	823.1	825.4	827.6	829.8	832.1	832.9	833.8	834.7	835.6	835.6
155°	842.6	842.8	844.6	846.3	848.1	849.9	850.7	851.6	852.5	853.4	853.2
157.5°	859.7	859.7	860.9	862.1	863.4	864.6	865.6	866.7	867.6	868.6	868.6
160°	870.1	870.1	871.0	871.9	872.7	873.6	874.5	875.3	876.3	877.1	877.0
162.5°	878.5	878.4	879.2	880.1	880.8	881.6	882.5	883.5	884.5	885.5	885.4
165°	889.9	889.7	890.1	890.5	891.0	891.5	892.5	893.5	894.5	895.5	895.5
167.5°	898.3	898.1	898.5	898.9	899.4	899.8	900.8	901.8	902.9	903.8	903.7
170°	903.1	902.8	903.1	903.4	903.7	904.0	905.0	906.1	907.0	908.0	908.0
172.5°	906.3	906.0	906.3	906.5	906.8	907.1	908.1	909.2	910.2	911.3	911.1
175°	909.7	909.4	909.6	910.0	910.3	910.6	911.6	912.7	913.6	914.6	914.5
177.5°	911.3	910.9	911.0	911.2	911.3	911.3	912.2	913.0	913.8	914.6	914.5
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331591-830

CATALOG NUMBER: S122DIW-S1005D710U830-4F0-1E-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°	9.1	8.7	8.7	8.2	8.7	8.7	9.1	9.1	9.0	10.0	9.9
90°	17.0	17.2	17.5	17.8	17.5	17.2	17.0	16.7	16.1	15.4	14.7
92.5°	17.2	17.4	17.6	17.8	17.6	17.4	17.2	17.2	16.9	16.5	16.1
95°	28.8	28.7	28.6	28.4	28.6	28.7	28.8	28.9	28.7	27.9	27.2
97.5°	37.3	37.5	37.7	37.9	37.7	37.5	37.3	37.1	36.8	36.2	35.6
100°	43.4	43.6	43.9	44.2	43.9	43.6	43.4	43.1	42.3	41.1	40.0
102.5°	46.2	46.6	46.9	47.4	46.9	46.6	46.2	45.7	44.8	43.3	41.8
105°	48.4	49.0	49.6	50.1	49.6	49.0	48.4	47.8	46.7	45.1	43.5
107.5°	49.9	50.4	51.0	51.6	51.0	50.4	49.9	49.3	49.8	51.5	53.1
110°	50.3	51.0	51.6	52.1	51.6	51.0	50.3	49.8	56.8	71.4	86.1



TEST NUMBER: P331591-830

CATALOG NUMBER: S122DIW-S1005D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	51.3	51.7	52.2	52.7	52.2	51.7	51.3	50.8	77.3	130.8	184.3
115°	85.8	75.2	64.7	54.1	64.7	75.2	85.8	96.3	135.5	203.4	271.4
117.5°	325.0	290.3	255.6	220.9	255.6	290.3	325.0	359.7	385.2	401.6	418.1
120°	461.8	442.1	422.3	402.5	422.3	442.1	461.8	481.6	490.7	488.9	487.2
122.5°	513.8	509.9	506.1	502.3	506.1	509.9	513.8	517.6	519.1	517.9	516.9
125°	562.8	563.3	563.7	564.1	563.7	563.3	562.8	562.4	561.7	560.6	559.6
127.5°	602.9	603.0	603.1	603.2	603.1	603.0	602.9	602.9	602.1	600.6	599.1
130°	627.9	627.8	627.6	627.5	627.6	627.8	627.9	628.1	627.4	625.8	624.2
132.5°	651.7	651.6	651.4	651.3	651.4	651.6	651.7	651.9	651.2	649.9	648.5
135°	686.5	686.2	685.9	685.6	685.9	686.2	686.5	686.7	686.2	684.7	683.2
137.5°	718.3	717.8	717.4	716.8	717.4	717.8	718.3	718.9	718.4	716.9	715.5
140°	738.6	737.8	737.1	736.4	737.1	737.8	738.6	739.3	739.0	737.7	736.4
142.5°	757.6	756.9	756.1	755.4	756.1	756.9	757.6	758.3	758.1	756.9	755.6
145°	784.1	783.3	782.6	781.9	782.6	783.3	784.1	784.9	784.7	783.6	782.6
147.5°	807.1	806.5	805.9	805.2	805.9	806.5	807.1	807.8	807.7	806.9	806.2
150°	821.7	821.0	820.2	819.5	820.2	821.0	821.7	822.5	822.4	821.5	820.6
152.5°	834.5	833.6	832.6	831.6	832.6	833.6	834.5	835.6	835.6	834.7	833.8
155°	852.1	850.9	849.7	848.6	849.7	850.9	852.1	853.2	853.4	852.5	851.6
157.5°	867.4	866.3	865.2	863.9	865.2	866.3	867.4	868.6	868.6	867.6	866.7
160°	876.0	875.0	874.0	873.0	874.0	875.0	876.0	877.0	877.1	876.3	875.3
162.5°	884.1	882.9	881.6	880.3	881.6	882.9	884.1	885.4	885.5	884.5	883.5
165°	894.5	893.5	892.5	891.5	892.5	893.5	894.5	895.5	895.5	894.5	893.5
167.5°	902.4	901.1	899.8	898.4	899.8	901.1	902.4	903.7	903.8	902.9	901.8
170°	906.6	905.3	904.0	902.7	904.0	905.3	906.6	908.0	908.0	907.0	906.1
172.5°	909.7	908.4	907.1	905.8	907.1	908.4	909.7	911.1	911.3	910.2	909.2
175°	912.9	911.5	910.0	908.6	910.0	911.5	912.9	914.5	914.6	913.6	912.7
177.5°	913.5	912.4	911.3	910.3	911.3	912.4	913.5	914.5	914.6	913.8	913.0
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



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CATALOG NUMBER: S122DIW-S1005D710U830-4F0-1E-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°	9.7	10.2	10.5	10.8	10.6	10.9	11.2	11.5	12.3	12.6	12.8
90°	13.9	13.2	12.1	10.8	9.7	8.5	7.1	5.5	3.9	2.3	0.7
92.5°	15.6	15.3	14.7	14.1	13.6	13.0	12.7	12.9	13.0	13.2	13.3
95°	26.5	25.7	24.7	23.7	22.6	21.6	23.6	28.4	33.2	38.1	42.9
97.5°	35.1	34.4	32.0	29.7	27.3	25.0	30.5	44.2	57.9	71.4	85.1
100°	38.7	37.6	35.2	32.6	30.2	27.6	36.5	56.6	76.6	96.7	116.8
102.5°	40.2	38.6	59.5	80.4	101.2	122.1	134.6	138.8	143.1	147.4	151.7
105°	41.8	40.2	80.3	120.3	160.3	200.4	218.2	213.8	209.4	205.0	200.6
107.5°	54.7	56.4	104.3	152.4	200.4	248.4	270.6	267.0	263.5	260.0	256.4
110°	100.9	115.5	157.9	200.2	242.6	284.9	304.6	301.5	298.5	295.4	292.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	291.2	301.7	312.2	322.6	333.1	337.0	334.2	331.6	328.9	326.1
115°	339.2	407.1	403.4	399.8	396.2	392.5	389.4	386.9	384.4	381.9	379.4
117.5°	434.5	450.9	448.4	445.9	443.4	440.8	438.2	435.4	432.6	429.8	427.1
120°	485.4	483.6	481.0	478.3	475.7	473.1	470.7	468.4	466.3	464.1	461.8
122.5°	515.9	514.8	511.9	509.1	506.1	503.3	500.7	498.4	496.1	493.8	491.4
125°	558.6	557.5	554.8	552.0	549.2	546.4	544.0	542.2	540.3	538.4	536.4
127.5°	597.6	596.1	594.0	591.9	589.8	587.8	585.7	583.5	581.5	579.3	577.2
130°	622.5	620.9	619.3	617.6	616.0	614.4	612.5	610.1	607.8	605.4	603.0
132.5°	647.1	645.7	644.1	642.4	640.8	639.2	637.4	635.5	633.5	631.5	629.5
135°	681.7	680.3	679.0	677.7	676.4	675.0	673.2	670.8	668.5	666.1	663.8
137.5°	714.1	712.7	711.1	709.6	708.1	706.6	705.0	703.4	701.8	700.1	698.5
140°	735.1	733.8	732.1	730.5	728.9	727.3	725.9	724.7	723.5	722.4	721.2
142.5°	754.5	753.3	751.4	749.6	747.7	745.8	744.4	743.4	742.3	741.2	740.2
145°	781.7	780.6	778.1	775.6	773.1	770.6	769.4	769.6	769.8	769.9	770.1
147.5°	805.4	804.6	802.1	799.7	797.2	794.8	793.8	794.4	794.9	795.5	796.0
150°	819.7	818.9	816.5	814.2	811.8	809.5	808.8	809.8	810.9	811.9	812.9
152.5°	832.9	832.1	829.8	827.6	825.4	823.1	822.6	823.7	824.9	826.0	827.2
155°	850.7	849.9	848.1	846.3	844.6	842.8	842.6	844.0	845.3	846.6	847.9
157.5°	865.6	864.6	863.4	862.1	860.9	859.7	859.7	860.7	861.9	863.0	864.1
160°	874.5	873.6	872.7	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6
162.5°	882.5	881.6	880.8	880.1	879.2	878.4	878.5	879.4	880.3	881.2	882.0
165°	892.5	891.5	891.0	890.5	890.1	889.7	889.9	890.8	891.6	892.5	893.4
167.5°	900.8	899.8	899.4	898.9	898.5	898.1	898.3	899.2	900.1	901.0	901.8
170°	905.0	904.0	903.7	903.4	903.1	902.8	903.1	904.0	904.8	905.7	906.6
172.5°	908.1	907.1	906.8	906.5	906.3	906.0	906.3	907.1	908.0	908.9	909.7
175°	911.6	910.6	910.3	910.0	909.6	909.4	909.7	910.8	911.8	912.9	913.9
177.5°	912.2	911.3	911.3	911.2	911.0	910.9	911.3	912.1	912.9	913.7	914.5
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331591-830

CATALOG NUMBER: S122DIW-S1005D710U830-4F0-1E-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	17.8	19.9	19.0	19.2	19.5	19.1	18.9	18.4	18.0
90°	2.3	3.9	5.5	7.1	8.5	9.7	10.8	12.1	13.2	13.9	14.7
92.5°	13.2	13.0	12.9	12.7	13.0	13.6	14.1	14.7	15.3	15.6	16.1
95°	38.1	33.2	28.4	23.6	21.6	22.6	23.7	24.7	25.7	26.5	27.2
97.5°	71.4	57.9	44.2	30.5	25.0	27.3	29.7	32.0	34.4	35.1	35.6
100°	96.7	76.6	56.6	36.5	27.6	30.2	32.6	35.2	37.6	38.7	40.0
102.5°	147.4	143.1	138.8	134.6	122.1	101.2	80.4	59.5	38.6	40.2	41.8
105°	205.0	209.4	213.8	218.2	200.4	160.3	120.3	80.3	40.2	41.8	43.5
107.5°	260.0	263.5	267.0	270.6	248.4	200.4	152.4	104.3	56.4	54.7	53.1
110°	295.4	298.5	301.5	304.6	284.9	242.6	200.2	157.9	115.5	100.9	86.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	328.9	331.6	334.2	337.0	333.1	322.6	312.2	301.7	291.2	237.8	184.3
115°	381.9	384.4	386.9	389.4	392.5	396.2	399.8	403.4	407.1	339.2	271.4
117.5°	429.8	432.6	435.4	438.2	440.8	443.4	445.9	448.4	450.9	434.5	418.1
120°	464.1	466.3	468.4	470.7	473.1	475.7	478.3	481.0	483.6	485.4	487.2
122.5°	493.8	496.1	498.4	500.7	503.3	506.1	509.1	511.9	514.8	515.9	516.9
125°	538.4	540.3	542.2	544.0	546.4	549.2	552.0	554.8	557.5	558.6	559.6
127.5°	579.3	581.5	583.5	585.7	587.8	589.8	591.9	594.0	596.1	597.6	599.1
130°	605.4	607.8	610.1	612.5	614.4	616.0	617.6	619.3	620.9	622.5	624.2
132.5°	631.5	633.5	635.5	637.4	639.2	640.8	642.4	644.1	645.7	647.1	648.5
135°	666.1	668.5	670.8	673.2	675.0	676.4	677.7	679.0	680.3	681.7	683.2
137.5°	700.1	701.8	703.4	705.0	706.6	708.1	709.6	711.1	712.7	714.1	715.5
140°	722.4	723.5	724.7	725.9	727.3	728.9	730.5	732.1	733.8	735.1	736.4
142.5°	741.2	742.3	743.4	744.4	745.8	747.7	749.6	751.4	753.3	754.5	755.6
145°	769.9	769.8	769.6	769.4	770.6	773.1	775.6	778.1	780.6	781.7	782.6
147.5°	795.5	794.9	794.4	793.8	794.8	797.2	799.7	802.1	804.6	805.4	806.2
150°	811.9	810.9	809.8	808.8	809.5	811.8	814.2	816.5	818.9	819.7	820.6
152.5°	826.0	824.9	823.7	822.6	823.1	825.4	827.6	829.8	832.1	832.9	833.8
155°	846.6	845.3	844.0	842.6	842.8	844.6	846.3	848.1	849.9	850.7	851.6
157.5°	863.0	861.9	860.7	859.7	859.7	860.9	862.1	863.4	864.6	865.6	866.7
160°	872.7	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6	874.5	875.3
162.5°	881.2	880.3	879.4	878.5	878.4	879.2	880.1	880.8	881.6	882.5	883.5
165°	892.5	891.6	890.8	889.9	889.7	890.1	890.5	891.0	891.5	892.5	893.5
167.5°	901.0	900.1	899.2	898.3	898.1	898.5	898.9	899.4	899.8	900.8	901.8
170°	905.7	904.8	904.0	903.1	902.8	903.1	903.4	903.7	904.0	905.0	906.1
172.5°	908.9	908.0	907.1	906.3	906.0	906.3	906.5	906.8	907.1	908.1	909.2
175°	912.9	911.8	910.8	909.7	909.4	909.6	910.0	910.3	910.6	911.6	912.7
177.5°	913.7	912.9	912.1	911.3	910.9	911.0	911.2	911.3	911.3	912.2	913.0
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



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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°	18.7	18.9	18.4	18.4	19.0	18.6	18.6
90°	15.4	16.1	16.7	17.0	17.2	17.5	17.8
92.5°	16.5	16.9	17.2	17.2	17.4	17.6	17.8
95°	27.9	28.7	28.9	28.8	28.7	28.6	28.4
97.5°	36.2	36.8	37.1	37.3	37.5	37.7	37.9
100°	41.1	42.3	43.1	43.4	43.6	43.9	44.2
102.5°	43.3	44.8	45.7	46.2	46.6	46.9	47.4
105°	45.1	46.7	47.8	48.4	49.0	49.6	50.1
107.5°	51.5	49.8	49.3	49.9	50.4	51.0	51.6
110°	71.4	56.8	49.8	50.3	51.0	51.6	52.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	130.8	77.3	50.8	51.3	51.7	52.2	52.7
115°	203.4	135.5	96.3	85.8	75.2	64.7	54.1
117.5°	401.6	385.2	359.7	325.0	290.3	255.6	220.9
120°	488.9	490.7	481.6	461.8	442.1	422.3	402.5
122.5°	517.9	519.1	517.6	513.8	509.9	506.1	502.3
125°	560.6	561.7	562.4	562.8	563.3	563.7	564.1
127.5°	600.6	602.1	602.9	602.9	603.0	603.1	603.2
130°	625.8	627.4	628.1	627.9	627.8	627.6	627.5
132.5°	649.9	651.2	651.9	651.7	651.6	651.4	651.3
135°	684.7	686.2	686.7	686.5	686.2	685.9	685.6
137.5°	716.9	718.4	718.9	718.3	717.8	717.4	716.8
140°	737.7	739.0	739.3	738.6	737.8	737.1	736.4
142.5°	756.9	758.1	758.3	757.6	756.9	756.1	755.4
145°	783.6	784.7	784.9	784.1	783.3	782.6	781.9
147.5°	806.9	807.7	807.8	807.1	806.5	805.9	805.2
150°	821.5	822.4	822.5	821.7	821.0	820.2	819.5
152.5°	834.7	835.6	835.6	834.5	833.6	832.6	831.6
155°	852.5	853.4	853.2	852.1	850.9	849.7	848.6
157.5°	867.6	868.6	868.6	867.4	866.3	865.2	863.9
160°	876.3	877.1	877.0	876.0	875.0	874.0	873.0
162.5°	884.5	885.5	885.4	884.1	882.9	881.6	880.3
165°	894.5	895.5	895.5	894.5	893.5	892.5	891.5
167.5°	902.9	903.8	903.7	902.4	901.1	899.8	898.4
170°	907.0	908.0	908.0	906.6	905.3	904.0	902.7
172.5°	910.2	911.3	911.1	909.7	908.4	907.1	905.8
175°	913.6	914.6	914.5	912.9	911.5	910.0	908.6
177.5°	913.8	914.6	914.5	913.5	912.4	911.3	910.3
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9

(END OF REPORT)