

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: P332216

Luminaire Tested: **S123DIW-S1165D755U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332216
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S1165D755U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 755 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7919.2 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

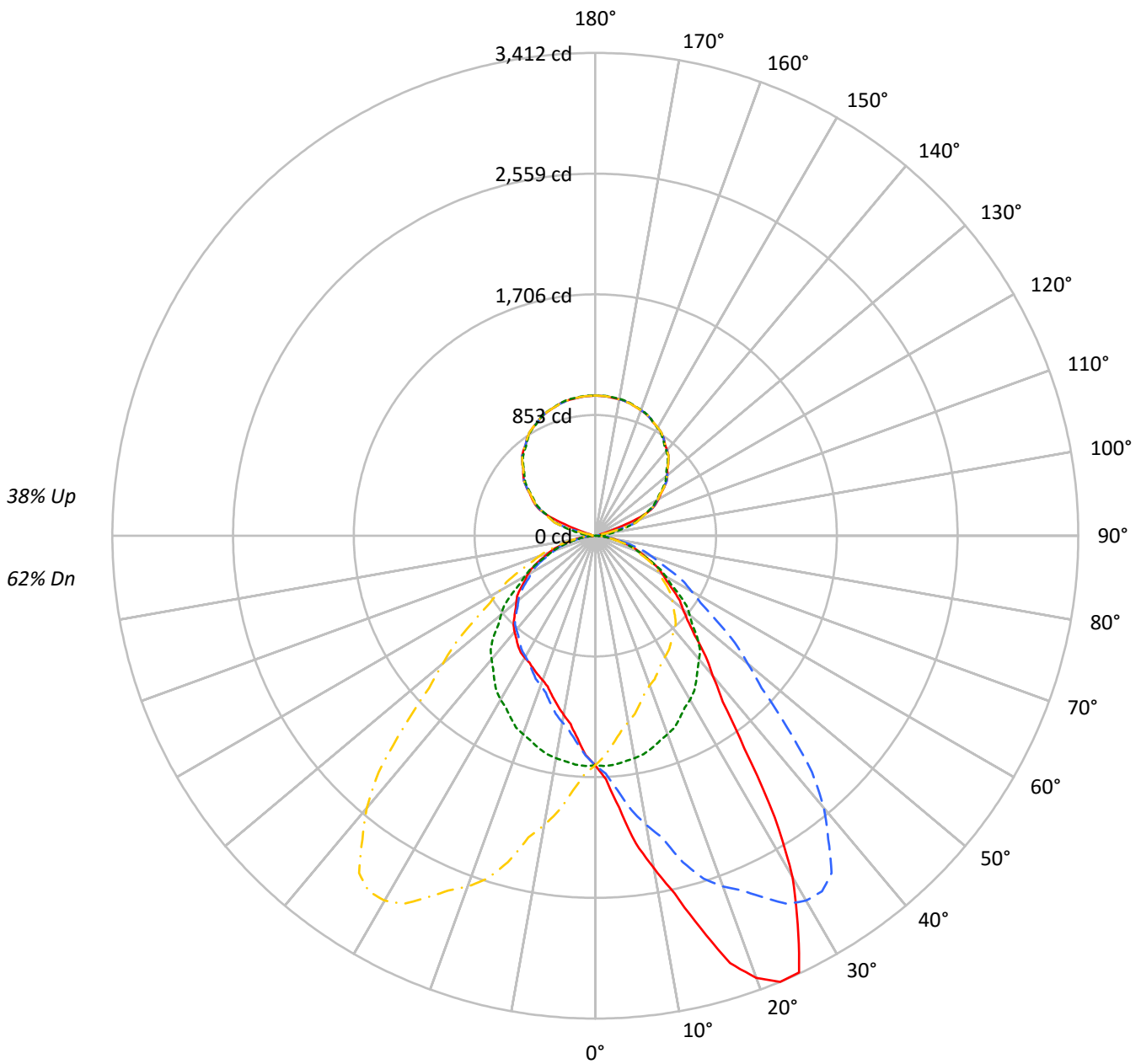
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - · - · - 90°-270° - · - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	59	57	53
2	92	85	79	73	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	50	47	47	44	42	38
4	77	66	58	52	72	63	55	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	35	38	35	32	29
6	65	53	45	39	61	50	43	38	45	39	34	40	35	31	35	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25	23
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17460	17460	17460	17460
5°	20822	17535	15540	17535
10°	26063	17446	14036	17446
15°	31967	17306	13067	17306
20°	38080	17087	12441	17087
25°	40435	16820	12302	16820
30°	34657	16625	12367	16625
35°	24103	16348	12496	16348
40°	18156	16024	12456	16024
45°	15075	15541	12298	15541
50°	13504	14555	12188	14555
55°	12624	13495	12035	13495
60°	11842	12385	11911	12385
65°	11130	11291	11530	11291
70°	10439	10043	10980	10043
75°	9349	8792	10069	8792
80°	8182	7209	8672	7209
85°	6410	5236	5829	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	2.0
10°-20°	512.4	6.5
20°-30°	859.9	10.9
30°-40°	973.7	12.3
40°-50°	873.2	11.0
50°-60°	704.7	8.9
60°-70°	491.0	6.2
70°-80°	258.1	3.3
80°-90°	65.9	0.8
90°-100°	36.0	0.5
100°-110°	171.6	2.2
110°-120°	412.3	5.2
120°-130°	525.0	6.6
130°-140°	560.9	7.1
140°-150°	524.5	6.6
150°-160°	423.1	5.3
160°-170°	273.1	3.4
170°-180°	94.1	1.2
0°-30°	1532.1	19.3
0°-40°	2505.8	31.6
0°-60°	4083.7	51.6
0°-90°	4898.7	61.9
90°-120°	619.9	7.8
90°-150°	2230.2	28.2
90°-180°	3020.0	38.1
0°-180°	7919.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1622	1622	1622	1622	1622	
5°	1927	1623	1438	1623	1927	200
15°	2869	1553	1173	1553	2869	828
25°	3405	1416	1036	1416	3405	1493
35°	1834	1244	951	1244	1834	1192
45°	990	1021	808	1021	990	784
55°	673	719	641	719	673	604
65°	437	443	453	443	437	435
75°	225	211	242	211	225	241
85°	52	42	47	42	52	62
90°	22	1	22	1	22	13
95°	28	45	28	45	28	23
105°	32	219	32	219	32	74
115°	433	411	433	411	433	400
125°	592	580	592	580	592	528
135°	729	722	729	722	729	562
145°	841	833	841	833	841	525
155°	916	918	916	918	916	422
165°	965	968	965	968	965	273
175°	987	990	987	990	987	94
180°	990	990	990	990	990	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1721.5	1720.2	1717.1	1719.6	1714.6	1707.6	1707.0	1700.7	1682.5	1681.2	1676.2
5°	1927.1	1920.8	1920.0	1919.2	1908.2	1893.3	1865.0	1862.6	1824.9	1806.0	1783.3
7.5°	2193.3	2196.6	2185.2	2175.1	2141.5	2119.3	2089.0	2050.2	2003.8	1956.8	1925.5
10°	2384.5	2410.4	2378.2	2356.2	2335.8	2297.2	2252.5	2196.6	2140.8	2075.6	2026.1
12.5°	2589.5	2602.2	2595.7	2575.0	2543.2	2484.6	2405.2	2343.8	2292.4	2183.8	2139.9
15°	2868.6	2916.6	2885.9	2815.2	2816.7	2760.9	2657.2	2543.2	2482.7	2387.6	2258.0
17.5°	3166.0	3172.0	3158.9	3100.0	3060.7	2984.0	2888.3	2779.0	2656.4	2541.4	2403.8
20°	3324.4	3319.7	3292.2	3261.6	3194.0	3134.3	3029.7	2907.9	2750.7	2637.6	2487.4
22.5°	3412.5	3404.6	3391.6	3365.9	3309.7	3245.5	3151.7	3018.6	2868.9	2713.0	2539.6
25°	3404.6	3414.8	3416.4	3409.3	3389.7	3351.2	3277.3	3171.2	3021.9	2821.5	2640.7
27.5°	3096.5	3111.0	3153.0	3190.2	3231.9	3274.3	3268.6	3216.0	3105.5	2932.4	2711.4
30°	2788.4	2757.0	2834.8	2933.1	2999.9	3117.7	3183.8	3187.7	3125.6	2977.1	2761.7
32.5°	2360.9	2395.5	2429.9	2550.8	2696.8	2829.2	2960.6	3066.4	3078.5	2979.6	2791.3
35°	1834.3	1877.6	1940.4	2003.3	2160.5	2295.7	2526.7	2727.9	2888.3	2909.5	2793.9
37.5°	1478.2	1499.5	1539.3	1602.3	1705.1	1865.5	2044.2	2298.5	2530.8	2703.6	2711.1
40°	1292.1	1298.3	1343.1	1391.1	1474.4	1606.4	1767.5	1992.3	2270.5	2511.8	2612.4
42.5°	1152.5	1166.3	1185.3	1231.4	1297.7	1397.1	1546.9	1732.6	1987.6	2265.3	2462.1
45°	990.3	1006.0	1017.8	1048.4	1095.6	1162.4	1266.9	1436.7	1630.8	1917.6	2182.5
47.5°	883.1	884.3	893.1	916.2	948.3	998.4	1072.3	1181.4	1359.6	1592.3	1864.2
50°	806.4	818.9	822.1	840.1	865.3	902.2	963.5	1056.3	1202.5	1406.8	1656.7
52.5°	752.3	756.1	764.9	777.9	799.9	828.7	881.8	954.4	1069.2	1243.3	1473.1
55°	672.7	672.7	681.4	691.6	704.2	730.1	765.5	818.9	906.2	1041.3	1231.5
57.5°	599.2	603.1	609.2	612.4	623.1	640.2	669.8	710.3	775.4	879.4	1030.7
60°	550.1	557.2	556.4	562.7	572.2	585.5	610.7	643.7	701.8	785.1	912.5
62.5°	507.4	506.9	506.8	514.3	523.7	536.5	552.8	581.4	630.8	704.7	813.1
65°	437.0	435.4	440.9	445.6	448.8	458.2	470.8	495.9	528.9	583.9	668.0
67.5°	374.4	369.9	372.8	374.4	379.8	387.1	398.9	414.5	440.7	484.9	548.3
70°	331.7	327.7	326.9	328.5	333.2	338.7	347.4	362.3	386.7	422.0	468.4
72.5°	287.6	285.0	284.8	288.3	290.5	294.1	300.2	313.9	333.2	359.8	403.0
75°	224.8	224.8	224.8	225.6	227.9	231.1	235.8	242.8	257.8	276.6	305.7
77.5°	168.5	168.3	167.4	167.2	170.7	172.1	173.2	179.8	188.1	200.9	222.1
80°	132.0	128.1	129.7	132.0	133.6	134.4	136.8	138.3	145.4	152.5	167.4
82.5°	98.1	94.8	95.1	98.7	99.0	99.8	102.2	104.4	107.0	113.5	121.5
85°	51.9	51.9	52.7	52.7	53.4	52.7	55.0	55.8	55.8	59.7	64.4
87.5°	23.3	22.0	22.5	23.1	22.4	22.9	23.4	23.9	24.4	24.9	25.1
90°	22.1	21.7	21.4	21.1	20.8	20.3	19.6	19.0	18.3	17.7	15.5
92.5°	24.4	24.2	24.0	23.8	23.6	23.0	22.0	20.9	19.9	18.8	17.2
95°	28.0	28.0	28.0	28.0	28.0	27.4	26.2	25.1	24.0	22.8	21.0
97.5°	30.3	30.2	30.0	29.8	29.7	28.9	27.6	26.3	25.0	23.7	35.5
100°	30.9	30.7	30.6	30.4	30.3	29.5	28.2	26.9	25.6	24.3	49.8
102.5°	31.5	31.2	30.9	30.6	30.3	32.2	36.3	40.3	44.4	48.4	76.3
105°	32.4	32.1	31.7	31.4	31.1	45.4	74.3	103.3	132.2	161.2	175.9
107.5°	101.7	123.5	145.3	167.1	189.0	210.5	231.7	252.9	274.1	295.4	293.1
110°	202.4	225.7	249.1	272.5	295.9	310.3	315.7	321.1	326.5	331.9	330.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	347.2	352.1	357.1	362.0	366.9	369.4	369.3	369.2	369.1	369.0	367.2
115°	432.7	432.0	431.4	430.7	430.1	428.9	427.3	425.7	424.0	422.4	420.9
117.5°	480.7	480.5	480.4	480.3	480.1	479.4	478.1	476.8	475.5	474.2	473.4
120°	513.6	513.6	513.6	513.6	513.6	513.0	511.7	510.4	509.1	507.7	507.3
122.5°	546.0	545.9	545.7	545.6	545.5	545.0	544.0	543.1	542.2	541.3	540.7
125°	591.6	591.3	591.0	590.7	590.3	590.0	589.7	589.3	589.0	588.7	588.0
127.5°	635.5	635.8	636.1	636.5	636.8	636.7	636.2	635.7	635.1	634.6	633.8
130°	663.7	664.1	664.4	664.7	665.1	664.9	664.2	663.6	662.9	662.3	661.6
132.5°	689.6	690.1	690.6	691.0	691.5	691.4	690.7	690.1	689.4	688.8	688.2
135°	729.2	729.7	730.2	730.7	731.2	731.2	730.7	730.2	729.7	729.2	728.6
137.5°	766.5	766.8	767.1	767.5	767.8	767.6	766.8	766.0	765.2	764.4	764.1
140°	788.8	789.2	789.5	789.8	790.2	790.0	789.3	788.7	788.0	787.4	786.9
142.5°	809.4	809.9	810.4	810.8	811.3	811.2	810.7	810.2	809.7	809.2	808.7
145°	841.1	841.1	841.1	841.1	841.1	840.9	840.6	840.3	839.9	839.6	839.3
147.5°	864.6	865.4	866.1	866.9	867.6	867.9	867.5	867.2	866.9	866.5	866.2
150°	882.3	882.8	883.3	883.8	884.3	884.3	884.0	883.7	883.4	883.0	882.7
152.5°	896.4	897.2	897.9	898.7	899.4	899.5	898.9	898.3	897.7	897.2	897.0
155°	916.1	917.1	918.1	919.1	920.1	920.2	919.3	918.5	917.7	916.9	916.7
157.5°	932.8	934.1	935.3	936.6	937.9	938.0	937.0	936.1	935.1	934.1	934.3
160°	943.4	944.5	945.7	946.8	948.0	948.0	947.1	946.1	945.1	944.1	944.3
162.5°	953.4	954.4	955.4	956.4	957.4	957.4	956.3	955.2	954.1	952.9	953.1
165°	965.4	966.6	967.7	968.9	970.0	969.9	968.6	967.3	966.0	964.7	964.9
167.5°	974.1	975.4	976.7	978.1	979.4	979.4	978.1	976.7	975.4	974.1	974.1
170°	979.4	980.7	982.0	983.4	984.7	984.7	983.4	982.0	980.7	979.4	979.4
172.5°	982.4	983.8	985.3	986.7	988.1	988.2	986.9	985.6	984.3	983.0	982.8
175°	986.8	988.1	989.4	990.7	992.0	992.1	991.0	989.8	988.7	987.5	987.4
177.5°	988.1	989.4	990.7	992.0	993.3	993.5	992.4	991.4	990.3	989.3	989.2
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1672.4	1667.4	1662.4	1653.6	1646.0	1635.3	1632.2	1628.4	1617.1	1607.1	1599.5
5°	1774.6	1755.7	1728.2	1703.1	1682.7	1655.2	1639.4	1622.9	1599.3	1578.1	1560.8
7.5°	1881.5	1844.4	1801.6	1755.4	1712.4	1670.9	1637.4	1607.5	1574.5	1543.2	1518.9
10°	1966.4	1912.9	1853.2	1788.8	1733.7	1680.3	1635.5	1596.2	1553.8	1516.8	1486.2
12.5°	2063.2	1984.0	1901.6	1823.3	1758.3	1684.1	1629.8	1579.9	1531.8	1487.3	1452.9
15°	2177.8	2077.2	1979.7	1872.1	1773.0	1680.3	1615.9	1553.0	1497.2	1451.6	1407.6
17.5°	2282.2	2168.2	2039.8	1908.8	1789.4	1679.4	1589.1	1518.1	1448.3	1392.5	1348.6
20°	2341.3	2211.6	2066.2	1930.2	1798.2	1675.6	1576.6	1491.7	1416.2	1357.3	1307.8
22.5°	2392.2	2240.5	2090.1	1944.7	1797.6	1665.5	1553.3	1465.9	1384.2	1326.5	1273.8
25°	2445.0	2263.5	2112.6	1942.0	1777.8	1641.0	1515.3	1416.2	1334.5	1266.9	1212.7
27.5°	2490.3	2261.9	2082.8	1899.4	1746.6	1609.6	1475.3	1369.1	1282.3	1208.9	1153.9
30°	2520.4	2265.0	2052.0	1870.5	1716.5	1575.0	1444.5	1337.6	1246.5	1171.8	1119.9
32.5°	2539.3	2263.1	2023.7	1830.3	1668.7	1543.5	1411.2	1300.5	1206.9	1133.5	1083.5
35°	2550.3	2249.3	1975.0	1747.1	1591.5	1469.7	1358.9	1244.1	1145.9	1077.5	1020.9
37.5°	2528.3	2220.2	1918.4	1666.9	1496.6	1376.6	1283.4	1185.6	1091.6	1016.4	967.6
40°	2493.7	2201.4	1874.4	1610.4	1431.2	1315.6	1236.3	1140.4	1047.6	976.1	930.5
42.5°	2427.7	2163.0	1826.0	1547.5	1363.3	1247.7	1174.6	1094.5	1006.8	939.6	894.1
45°	2266.6	2079.5	1753.4	1453.2	1263.0	1143.5	1079.1	1020.9	941.5	876.3	837.0
47.5°	2043.1	1954.0	1648.4	1353.7	1158.3	1043.4	976.4	929.6	871.6	818.9	781.2
50°	1887.8	1850.8	1577.3	1285.8	1088.5	976.1	911.7	869.2	827.6	774.9	740.3
52.5°	1708.6	1731.4	1494.4	1215.3	1017.5	907.0	846.3	812.6	774.8	731.5	701.4
55°	1456.3	1538.8	1351.0	1097.1	911.7	806.4	749.0	719.1	697.1	664.9	639.0
57.5°	1220.1	1325.1	1196.0	975.3	807.8	716.9	661.9	629.4	615.2	598.4	578.0
60°	1079.9	1183.6	1085.4	893.6	738.0	651.5	602.8	575.3	561.1	549.4	532.1
62.5°	954.7	1059.7	977.2	810.6	669.4	589.3	546.8	520.0	509.0	502.8	488.1
65°	782.8	873.2	818.1	681.4	571.4	500.6	462.1	443.3	433.0	430.7	421.3
67.5°	637.1	705.9	665.8	565.2	478.6	417.5	384.8	368.8	360.9	360.1	353.0
70°	541.5	605.9	575.3	484.1	409.5	361.5	333.2	319.1	314.4	313.6	309.7
72.5°	467.3	512.3	487.9	411.8	354.1	310.6	289.8	275.1	269.7	270.8	268.2
75°	345.8	379.6	365.5	312.8	266.4	238.1	220.8	211.4	206.7	209.1	205.9
77.5°	248.8	270.2	257.5	221.0	192.4	172.0	159.2	153.4	149.2	149.0	147.6
80°	187.8	200.4	193.3	171.3	147.8	130.5	120.2	116.3	114.0	113.2	112.4
82.5°	133.8	144.5	136.1	121.0	105.0	94.6	88.8	83.6	81.9	82.4	81.6
85°	67.6	71.5	68.4	58.9	52.7	47.9	44.8	42.4	40.9	41.7	40.1
87.5°	25.9	26.1	23.8	20.9	19.4	17.1	16.8	15.2	14.3	14.6	14.3
90°	13.4	11.3	9.2	7.3	5.6	4.0	2.4	0.7	2.4	4.0	5.6
92.5°	15.6	14.0	12.4	11.9	12.3	12.8	13.2	13.7	13.2	12.8	12.3
95°	19.2	17.4	15.6	18.1	24.8	31.5	38.2	44.9	38.2	31.5	24.8
97.5°	47.2	59.0	70.8	78.2	81.2	84.2	87.2	90.2	87.2	84.2	81.2
100°	75.3	100.8	126.3	137.4	134.2	130.9	127.6	124.4	127.6	130.9	134.2
102.5°	104.1	132.0	159.9	172.6	170.3	167.9	165.6	163.2	165.6	167.9	170.3
105°	190.6	205.3	220.0	226.5	224.7	222.9	221.1	219.3	221.1	222.9	224.7
107.5°	290.7	288.4	286.1	284.2	282.8	281.3	279.9	278.4	279.9	281.3	282.8
110°	328.3	326.5	324.7	323.1	321.8	320.5	319.2	317.9	319.2	320.5	321.8



TEST NUMBER: P332216

CATALOG NUMBER: S123DIW-S1165D755U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.4	363.6	361.8	360.3	359.1	357.9	356.7	355.6	356.7	357.9	359.1
115°	419.4	418.0	416.5	415.3	414.3	413.3	412.3	411.3	412.3	413.3	414.3
117.5°	472.7	471.9	471.2	470.2	469.0	467.8	466.6	465.4	466.6	467.8	469.0
120°	506.8	506.3	505.8	504.8	503.3	501.9	500.4	498.9	500.4	501.9	503.3
122.5°	540.1	539.4	538.8	537.9	536.7	535.5	534.3	533.1	534.3	535.5	536.7
125°	587.4	586.7	586.1	585.1	583.8	582.5	581.2	579.9	581.2	582.5	583.8
127.5°	633.0	632.3	631.5	630.4	629.1	627.8	626.5	625.2	626.5	627.8	629.1
130°	661.0	660.3	659.7	658.7	657.4	656.1	654.8	653.4	654.8	656.1	657.4
132.5°	687.7	687.2	686.7	685.8	684.4	683.1	681.8	680.5	681.8	683.1	684.4
135°	727.9	727.3	726.6	725.8	724.8	723.8	722.9	721.9	722.9	723.8	724.8
137.5°	763.7	763.3	763.0	762.2	760.9	759.7	758.4	757.2	758.4	759.7	760.9
140°	786.4	785.9	785.4	784.7	783.7	782.7	781.7	780.7	781.7	782.7	783.7
142.5°	808.2	807.7	807.2	806.5	805.5	804.5	803.5	802.5	803.5	804.5	805.5
145°	839.0	838.6	838.3	837.6	836.4	835.3	834.1	833.0	834.1	835.3	836.4
147.5°	865.9	865.6	865.2	864.7	863.9	863.2	862.4	861.7	862.4	863.2	863.9
150°	882.4	882.1	881.7	881.3	880.8	880.3	879.8	879.4	879.8	880.3	880.8
152.5°	896.8	896.6	896.4	896.2	895.9	895.7	895.5	895.2	895.5	895.7	895.9
155°	916.6	916.4	916.2	916.3	916.6	917.0	917.3	917.6	917.3	917.0	916.6
157.5°	934.4	934.6	934.8	934.9	934.9	934.9	935.0	935.0	935.0	934.9	934.9
160°	944.4	944.6	944.8	944.9	945.1	945.3	945.4	945.6	945.4	945.3	945.1
162.5°	953.3	953.4	953.6	953.9	954.3	954.7	955.2	955.6	955.2	954.7	954.3
165°	965.0	965.2	965.4	965.7	966.2	966.7	967.2	967.7	967.2	966.7	966.2
167.5°	974.1	974.1	974.1	974.5	975.1	975.8	976.4	977.1	976.4	975.8	975.1
170°	979.4	979.4	979.4	979.8	980.4	981.1	981.7	982.4	981.7	981.1	980.4
172.5°	982.7	982.6	982.4	982.8	983.6	984.3	985.1	985.9	985.1	984.3	983.6
175°	987.2	987.0	986.9	987.2	988.0	988.8	989.6	990.5	989.6	988.8	988.0
177.5°	989.0	988.9	988.8	989.0	989.7	990.3	991.0	991.6	991.0	990.3	989.7
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1595.1	1590.7	1584.4	1575.0	1567.4	1555.5	1555.5	1557.4	1557.4	1556.8	1555.5
5°	1546.7	1534.9	1520.8	1504.3	1487.0	1469.7	1466.5	1460.2	1455.5	1452.4	1448.5
7.5°	1495.6	1474.7	1454.1	1431.0	1409.9	1392.5	1380.4	1370.3	1363.9	1357.0	1351.9
10°	1461.0	1435.1	1410.7	1386.4	1359.6	1338.4	1325.1	1315.6	1308.6	1302.3	1299.1
12.5°	1420.2	1390.5	1363.6	1340.5	1311.2	1289.4	1276.7	1272.2	1263.9	1250.7	1243.8
15°	1360.4	1332.9	1300.7	1265.3	1251.2	1224.5	1209.5	1202.5	1197.7	1187.5	1184.4
17.5°	1309.3	1273.3	1237.2	1210.8	1184.5	1162.8	1154.5	1145.7	1139.4	1131.1	1128.6
20°	1268.5	1236.3	1203.2	1175.0	1147.4	1123.9	1116.8	1110.5	1104.2	1100.3	1097.1
22.5°	1227.0	1194.8	1167.4	1141.0	1111.6	1096.2	1088.5	1081.6	1077.2	1074.5	1071.4
25°	1168.7	1140.4	1109.7	1086.1	1062.6	1052.3	1047.6	1043.7	1040.6	1036.6	1035.8
27.5°	1116.5	1085.7	1060.8	1038.8	1021.9	1013.4	1008.8	1006.9	1007.6	1009.0	1009.9
30°	1077.5	1049.2	1028.8	1009.9	994.2	986.3	985.5	985.5	988.7	989.5	991.0
32.5°	1041.7	1018.4	998.0	979.7	967.8	962.4	965.4	965.4	967.9	970.0	972.8
35°	989.5	969.0	953.3	937.6	927.4	929.7	931.3	932.9	936.8	941.5	944.7
37.5°	939.6	921.9	905.5	893.3	888.6	892.8	896.6	899.9	904.4	908.1	911.2
40°	903.8	890.4	874.7	863.7	865.3	867.7	870.8	874.7	878.7	881.0	884.2
42.5°	870.5	856.5	844.6	835.4	837.6	840.6	842.5	844.6	849.1	853.4	855.2
45°	819.7	808.7	797.7	792.2	793.8	795.4	796.9	799.3	803.2	806.4	807.1
47.5°	762.7	755.0	747.6	742.2	744.7	744.1	746.2	751.2	752.4	754.3	758.7
50°	726.2	719.1	710.5	708.9	708.9	708.9	709.7	716.0	716.0	719.1	722.3
52.5°	686.0	681.4	675.9	673.1	671.8	671.8	675.1	678.3	679.5	683.9	687.1
55°	626.4	621.7	616.9	614.6	613.0	614.6	620.9	622.4	626.4	628.7	631.1
57.5°	564.3	560.7	556.9	555.6	555.3	557.4	560.8	565.5	566.5	573.7	577.3
60°	523.4	517.9	514.8	514.8	513.2	520.3	518.7	526.6	528.1	532.9	538.4
62.5°	481.3	473.9	472.7	472.7	474.9	476.9	479.1	482.6	486.6	492.6	496.9
65°	413.4	409.5	415.0	414.2	412.6	417.3	417.3	421.3	426.0	431.5	440.1
67.5°	349.1	347.1	347.5	347.5	349.9	352.6	354.8	358.2	363.9	369.7	375.4
70°	305.7	308.1	304.2	307.3	309.7	310.4	312.0	316.7	323.0	326.9	333.2
72.5°	263.6	263.4	263.9	265.2	267.5	268.9	270.5	275.9	282.8	286.1	291.1
75°	202.8	202.0	204.3	204.3	208.3	209.8	211.4	213.8	220.1	224.8	228.7
77.5°	148.1	149.0	148.5	151.2	150.1	150.4	155.3	157.7	158.3	167.6	169.6
80°	111.6	113.2	114.0	114.7	115.5	114.0	119.5	121.8	121.8	127.3	131.2
82.5°	80.2	81.1	83.2	83.9	84.1	85.7	86.1	87.9	89.8	92.1	97.3
85°	40.1	42.4	43.2	42.4	43.2	41.7	44.0	44.8	45.6	45.6	45.6
87.5°	14.0	15.0	14.8	15.9	15.7	16.7	16.9	15.7	15.9	17.9	15.5
90°	7.3	9.2	11.3	13.4	15.5	17.7	18.3	19.0	19.6	20.3	20.8
92.5°	11.9	12.4	14.0	15.6	17.2	18.8	19.9	20.9	22.0	23.0	23.6
95°	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.1	26.2	27.4	28.0
97.5°	78.2	70.8	59.0	47.2	35.5	23.7	25.0	26.3	27.6	28.9	29.7
100°	137.4	126.3	100.8	75.3	49.8	24.3	25.6	26.9	28.2	29.5	30.3
102.5°	172.6	159.9	132.0	104.1	76.3	48.4	44.4	40.3	36.3	32.2	30.3
105°	226.5	220.0	205.3	190.6	175.9	161.2	132.2	103.3	74.3	45.4	31.1
107.5°	284.2	286.1	288.4	290.7	293.1	295.4	274.1	252.9	231.7	210.5	189.0
110°	323.1	324.7	326.5	328.3	330.1	331.9	326.5	321.1	315.7	310.3	295.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	360.3	361.8	363.6	365.4	367.2	369.0	369.1	369.2	369.3	369.4	366.9
115°	415.3	416.5	418.0	419.4	420.9	422.4	424.0	425.7	427.3	428.9	430.1
117.5°	470.2	471.2	471.9	472.7	473.4	474.2	475.5	476.8	478.1	479.4	480.1
120°	504.8	505.8	506.3	506.8	507.3	507.7	509.1	510.4	511.7	513.0	513.6
122.5°	537.9	538.8	539.4	540.1	540.7	541.3	542.2	543.1	544.0	545.0	545.5
125°	585.1	586.1	586.7	587.4	588.0	588.7	589.0	589.3	589.7	590.0	590.3
127.5°	630.4	631.5	632.3	633.0	633.8	634.6	635.1	635.7	636.2	636.7	636.8
130°	658.7	659.7	660.3	661.0	661.6	662.3	662.9	663.6	664.2	664.9	665.1
132.5°	685.8	686.7	687.2	687.7	688.2	688.8	689.4	690.1	690.7	691.4	691.5
135°	725.8	726.6	727.3	727.9	728.6	729.2	729.7	730.2	730.7	731.2	731.2
137.5°	762.2	763.0	763.3	763.7	764.1	764.4	765.2	766.0	766.8	767.6	767.8
140°	784.7	785.4	785.9	786.4	786.9	787.4	788.0	788.7	789.3	790.0	790.2
142.5°	806.5	807.2	807.7	808.2	808.7	809.2	809.7	810.2	810.7	811.2	811.3
145°	837.6	838.3	838.6	839.0	839.3	839.6	839.9	840.3	840.6	840.9	841.1
147.5°	864.7	865.2	865.6	865.9	866.2	866.5	866.9	867.2	867.5	867.9	867.6
150°	881.3	881.7	882.1	882.4	882.7	883.0	883.4	883.7	884.0	884.3	884.3
152.5°	896.2	896.4	896.6	896.8	897.0	897.2	897.7	898.3	898.9	899.5	899.4
155°	916.3	916.2	916.4	916.6	916.7	916.9	917.7	918.5	919.3	920.2	920.1
157.5°	934.9	934.8	934.6	934.4	934.3	934.1	935.1	936.1	937.0	938.0	937.9
160°	944.9	944.8	944.6	944.4	944.3	944.1	945.1	946.1	947.1	948.0	948.0
162.5°	953.9	953.6	953.4	953.3	953.1	952.9	954.1	955.2	956.3	957.4	957.4
165°	965.7	965.4	965.2	965.0	964.9	964.7	966.0	967.3	968.6	969.9	970.0
167.5°	974.5	974.1	974.1	974.1	974.1	974.1	975.4	976.7	978.1	979.4	979.4
170°	979.8	979.4	979.4	979.4	979.4	979.4	980.7	982.0	983.4	984.7	984.7
172.5°	982.8	982.4	982.6	982.7	982.8	983.0	984.3	985.6	986.9	988.2	988.1
175°	987.2	986.9	987.0	987.2	987.4	987.5	988.7	989.8	991.0	992.1	992.0
177.5°	989.0	988.8	988.9	989.0	989.2	989.3	990.3	991.4	992.4	993.5	993.3
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332216

CATALOG NUMBER: S123DIW-S1165D755U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1551.1	1550.5	1554.9	1551.7	1554.9	1550.5	1551.1	1555.5	1556.8	1557.4	1557.4
5°	1443.7	1446.1	1438.2	1438.2	1438.2	1446.1	1443.7	1448.5	1452.4	1455.5	1460.2
7.5°	1348.2	1344.7	1345.0	1340.8	1345.0	1344.7	1348.2	1351.9	1357.0	1363.9	1370.3
10°	1289.7	1285.0	1283.4	1284.2	1283.4	1285.0	1289.7	1299.1	1302.3	1308.6	1315.6
12.5°	1241.3	1240.3	1230.0	1230.1	1230.0	1240.3	1241.3	1243.8	1250.7	1263.9	1272.2
15°	1184.4	1169.5	1167.9	1172.6	1167.9	1169.5	1184.4	1184.4	1187.5	1197.7	1202.5
17.5°	1127.3	1119.5	1119.9	1117.6	1119.9	1119.5	1127.3	1128.6	1131.1	1139.4	1145.7
20°	1097.1	1092.4	1091.6	1086.1	1091.6	1092.4	1097.1	1097.1	1100.3	1104.2	1110.5
22.5°	1069.5	1067.9	1068.4	1062.3	1068.4	1067.9	1069.5	1071.4	1074.5	1077.2	1081.6
25°	1035.1	1039.0	1035.8	1035.8	1035.8	1039.0	1035.1	1035.8	1036.6	1040.6	1043.7
27.5°	1011.8	1011.6	1010.1	1010.1	1010.1	1011.6	1011.8	1009.9	1009.0	1007.6	1006.9
30°	994.2	993.4	995.0	995.0	995.0	993.4	994.2	991.0	989.5	988.7	985.5
32.5°	976.6	977.7	978.0	978.6	978.0	977.7	976.6	972.8	970.0	967.9	965.4
35°	949.4	950.2	952.5	951.0	952.5	950.2	949.4	944.7	941.5	936.8	932.9
37.5°	912.6	916.2	915.4	916.7	915.4	916.2	912.6	911.2	908.1	904.4	899.9
40°	884.9	887.3	886.5	886.5	886.5	887.3	884.9	884.2	881.0	878.7	874.7
42.5°	856.7	858.4	856.3	855.1	856.3	858.4	856.7	855.2	853.4	849.1	844.6
45°	810.3	808.7	811.1	807.9	811.1	808.7	810.3	807.1	806.4	803.2	799.3
47.5°	758.4	760.0	760.6	763.0	760.6	760.0	758.4	758.7	754.3	752.4	751.2
50°	723.8	728.5	728.5	727.8	728.5	728.5	723.8	722.3	719.1	716.0	716.0
52.5°	689.9	692.1	695.2	695.1	695.2	692.1	689.9	687.1	683.9	679.5	678.3
55°	637.4	639.0	640.5	641.3	640.5	639.0	637.4	631.1	628.7	626.4	622.4
57.5°	583.0	582.4	586.1	587.2	586.1	582.4	583.0	577.3	573.7	566.5	565.5
60°	544.6	544.6	550.9	553.3	550.9	544.6	544.6	538.4	532.9	528.1	526.6
62.5°	503.8	506.3	512.6	509.3	512.6	506.3	503.8	496.9	492.6	486.6	482.6
65°	444.0	450.3	449.5	452.7	449.5	450.3	444.0	440.1	431.5	426.0	421.3
67.5°	381.6	385.6	391.2	391.7	391.2	385.6	381.6	375.4	369.7	363.9	358.2
70°	339.5	343.4	346.6	348.9	346.6	343.4	339.5	333.2	326.9	323.0	316.7
72.5°	298.7	300.7	308.2	304.9	308.2	300.7	298.7	291.1	286.1	282.8	275.9
75°	234.2	239.7	244.4	242.1	244.4	239.7	234.2	228.7	224.8	220.1	213.8
77.5°	173.2	178.7	180.9	178.9	180.9	178.7	173.2	169.6	167.6	158.3	157.7
80°	136.8	136.0	140.7	139.9	140.7	136.0	136.8	131.2	127.3	121.8	121.8
82.5°	100.3	99.5	101.7	102.2	101.7	99.5	100.3	97.3	92.1	89.8	87.9
85°	48.7	51.1	47.9	47.2	47.9	51.1	48.7	45.6	45.6	45.6	44.8
87.5°	15.5	15.6	15.0	14.5	15.0	15.6	15.5	15.5	17.9	15.9	15.7
90°	21.1	21.4	21.7	22.1	21.7	21.4	21.1	20.8	20.3	19.6	19.0
92.5°	23.8	24.0	24.2	24.4	24.2	24.0	23.8	23.6	23.0	22.0	20.9
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.4	26.2	25.1
97.5°	29.8	30.0	30.2	30.3	30.2	30.0	29.8	29.7	28.9	27.6	26.3
100°	30.4	30.6	30.7	30.9	30.7	30.6	30.4	30.3	29.5	28.2	26.9
102.5°	30.6	30.9	31.2	31.5	31.2	30.9	30.6	30.3	32.2	36.3	40.3
105°	31.4	31.7	32.1	32.4	32.1	31.7	31.4	31.1	45.4	74.3	103.3
107.5°	167.1	145.3	123.5	101.7	123.5	145.3	167.1	189.0	210.5	231.7	252.9
110°	272.5	249.1	225.7	202.4	225.7	249.1	272.5	295.9	310.3	315.7	321.1



TEST NUMBER: P332216

CATALOG NUMBER: S123DIW-S1165D755U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.0	357.1	352.1	347.2	352.1	357.1	362.0	366.9	369.4	369.3	369.2
115°	430.7	431.4	432.0	432.7	432.0	431.4	430.7	430.1	428.9	427.3	425.7
117.5°	480.3	480.4	480.5	480.7	480.5	480.4	480.3	480.1	479.4	478.1	476.8
120°	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.0	511.7	510.4
122.5°	545.6	545.7	545.9	546.0	545.9	545.7	545.6	545.5	545.0	544.0	543.1
125°	590.7	591.0	591.3	591.6	591.3	591.0	590.7	590.3	590.0	589.7	589.3
127.5°	636.5	636.1	635.8	635.5	635.8	636.1	636.5	636.8	636.7	636.2	635.7
130°	664.7	664.4	664.1	663.7	664.1	664.4	664.7	665.1	664.9	664.2	663.6
132.5°	691.0	690.6	690.1	689.6	690.1	690.6	691.0	691.5	691.4	690.7	690.1
135°	730.7	730.2	729.7	729.2	729.7	730.2	730.7	731.2	731.2	730.7	730.2
137.5°	767.5	767.1	766.8	766.5	766.8	767.1	767.5	767.8	767.6	766.8	766.0
140°	789.8	789.5	789.2	788.8	789.2	789.5	789.8	790.2	790.0	789.3	788.7
142.5°	810.8	810.4	809.9	809.4	809.9	810.4	810.8	811.3	811.2	810.7	810.2
145°	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	840.9	840.6	840.3
147.5°	866.9	866.1	865.4	864.6	865.4	866.1	866.9	867.6	867.9	867.5	867.2
150°	883.8	883.3	882.8	882.3	882.8	883.3	883.8	884.3	884.3	884.0	883.7
152.5°	898.7	897.9	897.2	896.4	897.2	897.9	898.7	899.4	899.5	898.9	898.3
155°	919.1	918.1	917.1	916.1	917.1	918.1	919.1	920.1	920.2	919.3	918.5
157.5°	936.6	935.3	934.1	932.8	934.1	935.3	936.6	937.9	938.0	937.0	936.1
160°	946.8	945.7	944.5	943.4	944.5	945.7	946.8	948.0	948.0	947.1	946.1
162.5°	956.4	955.4	954.4	953.4	954.4	955.4	956.4	957.4	957.4	956.3	955.2
165°	968.9	967.7	966.6	965.4	966.6	967.7	968.9	970.0	969.9	968.6	967.3
167.5°	978.1	976.7	975.4	974.1	975.4	976.7	978.1	979.4	979.4	978.1	976.7
170°	983.4	982.0	980.7	979.4	980.7	982.0	983.4	984.7	984.7	983.4	982.0
172.5°	986.7	985.3	983.8	982.4	983.8	985.3	986.7	988.1	988.2	986.9	985.6
175°	990.7	989.4	988.1	986.8	988.1	989.4	990.7	992.0	992.1	991.0	989.8
177.5°	992.0	990.7	989.4	988.1	989.4	990.7	992.0	993.3	993.5	992.4	991.4
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332216

CATALOG NUMBER: S123DIW-S1165D755U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1555.5	1555.5	1567.4	1575.0	1584.4	1590.7	1595.1	1599.5	1607.1	1617.1	1628.4
5°	1466.5	1469.7	1487.0	1504.3	1520.8	1534.9	1546.7	1560.8	1578.1	1599.3	1622.9
7.5°	1380.4	1392.5	1409.9	1431.0	1454.1	1474.7	1495.6	1518.9	1543.2	1574.5	1607.5
10°	1325.1	1338.4	1359.6	1386.4	1410.7	1435.1	1461.0	1486.2	1516.8	1553.8	1596.2
12.5°	1276.7	1289.4	1311.2	1340.5	1363.6	1390.5	1420.2	1452.9	1487.3	1531.8	1579.9
15°	1209.5	1224.5	1251.2	1265.3	1300.7	1332.9	1360.4	1407.6	1451.6	1497.2	1553.0
17.5°	1154.5	1162.8	1184.5	1210.8	1237.2	1273.3	1309.3	1348.6	1392.5	1448.3	1518.1
20°	1116.8	1123.9	1147.4	1175.0	1203.2	1236.3	1268.5	1307.8	1357.3	1416.2	1491.7
22.5°	1088.5	1096.2	1111.6	1141.0	1167.4	1194.8	1227.0	1273.8	1326.5	1384.2	1465.9
25°	1047.6	1052.3	1062.6	1086.1	1109.7	1140.4	1168.7	1212.7	1266.9	1334.5	1416.2
27.5°	1008.8	1013.4	1021.9	1038.8	1060.8	1085.7	1116.5	1153.9	1208.9	1282.3	1369.1
30°	985.5	986.3	994.2	1009.9	1028.8	1049.2	1077.5	1119.9	1171.8	1246.5	1337.6
32.5°	965.4	962.4	967.8	979.7	998.0	1018.4	1041.7	1083.5	1133.5	1206.9	1300.5
35°	931.3	929.7	927.4	937.6	953.3	969.0	989.5	1020.9	1077.5	1145.9	1244.1
37.5°	896.6	892.8	888.6	893.3	905.5	921.9	939.6	967.6	1016.4	1091.6	1185.6
40°	870.8	867.7	865.3	863.7	874.7	890.4	903.8	930.5	976.1	1047.6	1140.4
42.5°	842.5	840.6	837.6	835.4	844.6	856.5	870.5	894.1	939.6	1006.8	1094.5
45°	796.9	795.4	793.8	792.2	797.7	808.7	819.7	837.0	876.3	941.5	1020.9
47.5°	746.2	744.1	744.7	742.2	747.6	755.0	762.7	781.2	818.9	871.6	929.6
50°	709.7	708.9	708.9	708.9	710.5	719.1	726.2	740.3	774.9	827.6	869.2
52.5°	675.1	671.8	671.8	673.1	675.9	681.4	686.0	701.4	731.5	774.8	812.6
55°	620.9	614.6	613.0	614.6	616.9	621.7	626.4	639.0	664.9	697.1	719.1
57.5°	560.8	557.4	555.3	555.6	556.9	560.7	564.3	578.0	598.4	615.2	629.4
60°	518.7	520.3	513.2	514.8	514.8	517.9	523.4	532.1	549.4	561.1	575.3
62.5°	479.1	476.9	474.9	472.7	472.7	473.9	481.3	488.1	502.8	509.0	520.0
65°	417.3	417.3	412.6	414.2	415.0	409.5	413.4	421.3	430.7	433.0	443.3
67.5°	354.8	352.6	349.9	347.5	347.5	347.1	349.1	353.0	360.1	360.9	368.8
70°	312.0	310.4	309.7	307.3	304.2	308.1	305.7	309.7	313.6	314.4	319.1
72.5°	270.5	268.9	267.5	265.2	263.9	263.4	263.6	268.2	270.8	269.7	275.1
75°	211.4	209.8	208.3	204.3	204.3	202.0	202.8	205.9	209.1	206.7	211.4
77.5°	155.3	150.4	150.1	151.2	148.5	149.0	148.1	147.6	149.0	149.2	153.4
80°	119.5	114.0	115.5	114.7	114.0	113.2	111.6	112.4	113.2	114.0	116.3
82.5°	86.1	85.7	84.1	83.9	83.2	81.1	80.2	81.6	82.4	81.9	83.6
85°	44.0	41.7	43.2	42.4	43.2	42.4	40.1	40.1	41.7	40.9	42.4
87.5°	16.9	16.7	15.7	15.9	14.8	15.0	14.0	14.3	14.6	14.3	15.2
90°	18.3	17.7	15.5	13.4	11.3	9.2	7.3	5.6	4.0	2.4	0.7
92.5°	19.9	18.8	17.2	15.6	14.0	12.4	11.9	12.3	12.8	13.2	13.7
95°	24.0	22.8	21.0	19.2	17.4	15.6	18.1	24.8	31.5	38.2	44.9
97.5°	25.0	23.7	35.5	47.2	59.0	70.8	78.2	81.2	84.2	87.2	90.2
100°	25.6	24.3	49.8	75.3	100.8	126.3	137.4	134.2	130.9	127.6	124.4
102.5°	44.4	48.4	76.3	104.1	132.0	159.9	172.6	170.3	167.9	165.6	163.2
105°	132.2	161.2	175.9	190.6	205.3	220.0	226.5	224.7	222.9	221.1	219.3
107.5°	274.1	295.4	293.1	290.7	288.4	286.1	284.2	282.8	281.3	279.9	278.4
110°	326.5	331.9	330.1	328.3	326.5	324.7	323.1	321.8	320.5	319.2	317.9



TEST NUMBER: P332216

CATALOG NUMBER: S123DIW-S1165D755U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.1	369.0	367.2	365.4	363.6	361.8	360.3	359.1	357.9	356.7	355.6
115°	424.0	422.4	420.9	419.4	418.0	416.5	415.3	414.3	413.3	412.3	411.3
117.5°	475.5	474.2	473.4	472.7	471.9	471.2	470.2	469.0	467.8	466.6	465.4
120°	509.1	507.7	507.3	506.8	506.3	505.8	504.8	503.3	501.9	500.4	498.9
122.5°	542.2	541.3	540.7	540.1	539.4	538.8	537.9	536.7	535.5	534.3	533.1
125°	589.0	588.7	588.0	587.4	586.7	586.1	585.1	583.8	582.5	581.2	579.9
127.5°	635.1	634.6	633.8	633.0	632.3	631.5	630.4	629.1	627.8	626.5	625.2
130°	662.9	662.3	661.6	661.0	660.3	659.7	658.7	657.4	656.1	654.8	653.4
132.5°	689.4	688.8	688.2	687.7	687.2	686.7	685.8	684.4	683.1	681.8	680.5
135°	729.7	729.2	728.6	727.9	727.3	726.6	725.8	724.8	723.8	722.9	721.9
137.5°	765.2	764.4	764.1	763.7	763.3	763.0	762.2	760.9	759.7	758.4	757.2
140°	788.0	787.4	786.9	786.4	785.9	785.4	784.7	783.7	782.7	781.7	780.7
142.5°	809.7	809.2	808.7	808.2	807.7	807.2	806.5	805.5	804.5	803.5	802.5
145°	839.9	839.6	839.3	839.0	838.6	838.3	837.6	836.4	835.3	834.1	833.0
147.5°	866.9	866.5	866.2	865.9	865.6	865.2	864.7	863.9	863.2	862.4	861.7
150°	883.4	883.0	882.7	882.4	882.1	881.7	881.3	880.8	880.3	879.8	879.4
152.5°	897.7	897.2	897.0	896.8	896.6	896.4	896.2	895.9	895.7	895.5	895.2
155°	917.7	916.9	916.7	916.6	916.4	916.2	916.3	916.6	917.0	917.3	917.6
157.5°	935.1	934.1	934.3	934.4	934.6	934.8	934.9	934.9	934.9	935.0	935.0
160°	945.1	944.1	944.3	944.4	944.6	944.8	944.9	945.1	945.3	945.4	945.6
162.5°	954.1	952.9	953.1	953.3	953.4	953.6	953.9	954.3	954.7	955.2	955.6
165°	966.0	964.7	964.9	965.0	965.2	965.4	965.7	966.2	966.7	967.2	967.7
167.5°	975.4	974.1	974.1	974.1	974.1	974.1	974.5	975.1	975.8	976.4	977.1
170°	980.7	979.4	979.4	979.4	979.4	979.4	979.8	980.4	981.1	981.7	982.4
172.5°	984.3	983.0	982.8	982.7	982.6	982.4	982.8	983.6	984.3	985.1	985.9
175°	988.7	987.5	987.4	987.2	987.0	986.9	987.2	988.0	988.8	989.6	990.5
177.5°	990.3	989.3	989.2	989.0	988.9	988.8	989.0	989.7	990.3	991.0	991.6
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



TEST NUMBER: P332216

CATALOG NUMBER: S123DIW-S1165D755U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1632.2	1635.3	1646.0	1653.6	1662.4	1667.4	1672.4	1676.2	1681.2	1682.5	1700.7
5°	1639.4	1655.2	1682.7	1703.1	1728.2	1755.7	1774.6	1783.3	1806.0	1824.9	1862.6
7.5°	1637.4	1670.9	1712.4	1755.4	1801.6	1844.4	1881.5	1925.5	1956.8	2003.8	2050.2
10°	1635.5	1680.3	1733.7	1788.8	1853.2	1912.9	1966.4	2026.1	2075.6	2140.8	2196.6
12.5°	1629.8	1684.1	1758.3	1823.3	1901.6	1984.0	2063.2	2139.9	2183.8	2292.4	2343.8
15°	1615.9	1680.3	1773.0	1872.1	1979.7	2077.2	2177.8	2258.0	2387.6	2482.7	2543.2
17.5°	1589.1	1679.4	1789.4	1908.8	2039.8	2168.2	2282.2	2403.8	2541.4	2656.4	2779.0
20°	1576.6	1675.6	1798.2	1930.2	2066.2	2211.6	2341.3	2487.4	2637.6	2750.7	2907.9
22.5°	1553.3	1665.5	1797.6	1944.7	2090.1	2240.5	2392.2	2539.6	2713.0	2868.9	3018.6
25°	1515.3	1641.0	1777.8	1942.0	2112.6	2263.5	2445.0	2640.7	2821.5	3021.9	3171.2
27.5°	1475.3	1609.6	1746.6	1899.4	2082.8	2261.9	2490.3	2711.4	2932.4	3105.5	3216.0
30°	1444.5	1575.0	1716.5	1870.5	2052.0	2265.0	2520.4	2761.7	2977.1	3125.6	3187.7
32.5°	1411.2	1543.5	1668.7	1830.3	2023.7	2263.1	2539.3	2791.3	2979.6	3078.5	3066.4
35°	1358.9	1469.7	1591.5	1747.1	1975.0	2249.3	2550.3	2793.9	2909.5	2888.3	2727.9
37.5°	1283.4	1376.6	1496.6	1666.9	1918.4	2220.2	2528.3	2711.1	2703.6	2530.8	2298.5
40°	1236.3	1315.6	1431.2	1610.4	1874.4	2201.4	2493.7	2612.4	2511.8	2270.5	1992.3
42.5°	1174.6	1247.7	1363.3	1547.5	1826.0	2163.0	2427.7	2462.1	2265.3	1987.6	1732.6
45°	1079.1	1143.5	1263.0	1453.2	1753.4	2079.5	2266.6	2182.5	1917.6	1630.8	1436.7
47.5°	976.4	1043.4	1158.3	1353.7	1648.4	1954.0	2043.1	1864.2	1592.3	1359.6	1181.4
50°	911.7	976.1	1088.5	1285.8	1577.3	1850.8	1887.8	1656.7	1406.8	1202.5	1056.3
52.5°	846.3	907.0	1017.5	1215.3	1494.4	1731.4	1708.6	1473.1	1243.3	1069.2	954.4
55°	749.0	806.4	911.7	1097.1	1351.0	1538.8	1456.3	1231.5	1041.3	906.2	818.9
57.5°	661.9	716.9	807.8	975.3	1196.0	1325.1	1220.1	1030.7	879.4	775.4	710.3
60°	602.8	651.5	738.0	893.6	1085.4	1183.6	1079.9	912.5	785.1	701.8	643.7
62.5°	546.8	589.3	669.4	810.6	977.2	1059.7	954.7	813.1	704.7	630.8	581.4
65°	462.1	500.6	571.4	681.4	818.1	873.2	782.8	668.0	583.9	528.9	495.9
67.5°	384.8	417.5	478.6	565.2	665.8	705.9	637.1	548.3	484.9	440.7	414.5
70°	333.2	361.5	409.5	484.1	575.3	605.9	541.5	468.4	422.0	386.7	362.3
72.5°	289.8	310.6	354.1	411.8	487.9	512.3	467.3	403.0	359.8	333.2	313.9
75°	220.8	238.1	266.4	312.8	365.5	379.6	345.8	305.7	276.6	257.8	242.8
77.5°	159.2	172.0	192.4	221.0	257.5	270.2	248.8	222.1	200.9	188.1	179.8
80°	120.2	130.5	147.8	171.3	193.3	200.4	187.8	167.4	152.5	145.4	138.3
82.5°	88.8	94.6	105.0	121.0	136.1	144.5	133.8	121.5	113.5	107.0	104.4
85°	44.8	47.9	52.7	58.9	68.4	71.5	67.6	64.4	59.7	55.8	55.8
87.5°	16.8	17.1	19.4	20.9	23.8	26.1	25.9	25.1	24.9	24.4	23.9
90°	2.4	4.0	5.6	7.3	9.2	11.3	13.4	15.5	17.7	18.3	19.0
92.5°	13.2	12.8	12.3	11.9	12.4	14.0	15.6	17.2	18.8	19.9	20.9
95°	38.2	31.5	24.8	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.1
97.5°	87.2	84.2	81.2	78.2	70.8	59.0	47.2	35.5	23.7	25.0	26.3
100°	127.6	130.9	134.2	137.4	126.3	100.8	75.3	49.8	24.3	25.6	26.9
102.5°	165.6	167.9	170.3	172.6	159.9	132.0	104.1	76.3	48.4	44.4	40.3
105°	221.1	222.9	224.7	226.5	220.0	205.3	190.6	175.9	161.2	132.2	103.3
107.5°	279.9	281.3	282.8	284.2	286.1	288.4	290.7	293.1	295.4	274.1	252.9
110°	319.2	320.5	321.8	323.1	324.7	326.5	328.3	330.1	331.9	326.5	321.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.7	357.9	359.1	360.3	361.8	363.6	365.4	367.2	369.0	369.1	369.2
115°	412.3	413.3	414.3	415.3	416.5	418.0	419.4	420.9	422.4	424.0	425.7
117.5°	466.6	467.8	469.0	470.2	471.2	471.9	472.7	473.4	474.2	475.5	476.8
120°	500.4	501.9	503.3	504.8	505.8	506.3	506.8	507.3	507.7	509.1	510.4
122.5°	534.3	535.5	536.7	537.9	538.8	539.4	540.1	540.7	541.3	542.2	543.1
125°	581.2	582.5	583.8	585.1	586.1	586.7	587.4	588.0	588.7	589.0	589.3
127.5°	626.5	627.8	629.1	630.4	631.5	632.3	633.0	633.8	634.6	635.1	635.7
130°	654.8	656.1	657.4	658.7	659.7	660.3	661.0	661.6	662.3	662.9	663.6
132.5°	681.8	683.1	684.4	685.8	686.7	687.2	687.7	688.2	688.8	689.4	690.1
135°	722.9	723.8	724.8	725.8	726.6	727.3	727.9	728.6	729.2	729.7	730.2
137.5°	758.4	759.7	760.9	762.2	763.0	763.3	763.7	764.1	764.4	765.2	766.0
140°	781.7	782.7	783.7	784.7	785.4	785.9	786.4	786.9	787.4	788.0	788.7
142.5°	803.5	804.5	805.5	806.5	807.2	807.7	808.2	808.7	809.2	809.7	810.2
145°	834.1	835.3	836.4	837.6	838.3	838.6	839.0	839.3	839.6	839.9	840.3
147.5°	862.4	863.2	863.9	864.7	865.2	865.6	865.9	866.2	866.5	866.9	867.2
150°	879.8	880.3	880.8	881.3	881.7	882.1	882.4	882.7	883.0	883.4	883.7
152.5°	895.5	895.7	895.9	896.2	896.4	896.6	896.8	897.0	897.2	897.7	898.3
155°	917.3	917.0	916.6	916.3	916.2	916.4	916.6	916.7	916.9	917.7	918.5
157.5°	935.0	934.9	934.9	934.9	934.8	934.6	934.4	934.3	934.1	935.1	936.1
160°	945.4	945.3	945.1	944.9	944.8	944.6	944.4	944.3	944.1	945.1	946.1
162.5°	955.2	954.7	954.3	953.9	953.6	953.4	953.3	953.1	952.9	954.1	955.2
165°	967.2	966.7	966.2	965.7	965.4	965.2	965.0	964.9	964.7	966.0	967.3
167.5°	976.4	975.8	975.1	974.5	974.1	974.1	974.1	974.1	974.1	975.4	976.7
170°	981.7	981.1	980.4	979.8	979.4	979.4	979.4	979.4	979.4	980.7	982.0
172.5°	985.1	984.3	983.6	982.8	982.4	982.6	982.7	982.8	983.0	984.3	985.6
175°	989.6	988.8	988.0	987.2	986.9	987.0	987.2	987.4	987.5	988.7	989.8
177.5°	991.0	990.3	989.7	989.0	988.8	988.9	989.0	989.2	989.3	990.3	991.4
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5	990.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1707.0	1707.6	1714.6	1719.6	1717.1	1720.2	1721.5
5°	1865.0	1893.3	1908.2	1919.2	1920.0	1920.8	1927.1
7.5°	2089.0	2119.3	2141.5	2175.1	2185.2	2196.6	2193.3
10°	2252.5	2297.2	2335.8	2356.2	2378.2	2410.4	2384.5
12.5°	2405.2	2484.6	2543.2	2575.0	2595.7	2602.2	2589.5
15°	2657.2	2760.9	2816.7	2815.2	2885.9	2916.6	2868.6
17.5°	2888.3	2984.0	3060.7	3100.0	3158.9	3172.0	3166.0
20°	3029.7	3134.3	3194.0	3261.6	3292.2	3319.7	3324.4
22.5°	3151.7	3245.5	3309.7	3365.9	3391.6	3404.6	3412.5
25°	3277.3	3351.2	3389.7	3409.3	3416.4	3414.8	3404.6
27.5°	3268.6	3274.3	3231.9	3190.2	3153.0	3111.0	3096.5
30°	3183.8	3117.7	2999.9	2933.1	2834.8	2757.0	2788.4
32.5°	2960.6	2829.2	2696.8	2550.8	2429.9	2395.5	2360.9
35°	2526.7	2295.7	2160.5	2003.3	1940.4	1877.6	1834.3
37.5°	2044.2	1865.5	1705.1	1602.3	1539.3	1499.5	1478.2
40°	1767.5	1606.4	1474.4	1391.1	1343.1	1298.3	1292.1
42.5°	1546.9	1397.1	1297.7	1231.4	1185.3	1166.3	1152.5
45°	1266.9	1162.4	1095.6	1048.4	1017.8	1006.0	990.3
47.5°	1072.3	998.4	948.3	916.2	893.1	884.3	883.1
50°	963.5	902.2	865.3	840.1	822.1	818.9	806.4
52.5°	881.8	828.7	799.9	777.9	764.9	756.1	752.3
55°	765.5	730.1	704.2	691.6	681.4	672.7	672.7
57.5°	669.8	640.2	623.1	612.4	609.2	603.1	599.2
60°	610.7	585.5	572.2	562.7	556.4	557.2	550.1
62.5°	552.8	536.5	523.7	514.3	506.8	506.9	507.4
65°	470.8	458.2	448.8	445.6	440.9	435.4	437.0
67.5°	398.9	387.1	379.8	374.4	372.8	369.9	374.4
70°	347.4	338.7	333.2	328.5	326.9	327.7	331.7
72.5°	300.2	294.1	290.5	288.3	284.8	285.0	287.6
75°	235.8	231.1	227.9	225.6	224.8	224.8	224.8
77.5°	173.2	172.1	170.7	167.2	167.4	168.3	168.5
80°	136.8	134.4	133.6	132.0	129.7	128.1	132.0
82.5°	102.2	99.8	99.0	98.7	95.1	94.8	98.1
85°	55.0	52.7	53.4	52.7	52.7	51.9	51.9
87.5°	23.4	22.9	22.4	23.1	22.5	22.0	23.3
90°	19.6	20.3	20.8	21.1	21.4	21.7	22.1
92.5°	22.0	23.0	23.6	23.8	24.0	24.2	24.4
95°	26.2	27.4	28.0	28.0	28.0	28.0	28.0
97.5°	27.6	28.9	29.7	29.8	30.0	30.2	30.3
100°	28.2	29.5	30.3	30.4	30.6	30.7	30.9
102.5°	36.3	32.2	30.3	30.6	30.9	31.2	31.5
105°	74.3	45.4	31.1	31.4	31.7	32.1	32.4
107.5°	231.7	210.5	189.0	167.1	145.3	123.5	101.7
110°	315.7	310.3	295.9	272.5	249.1	225.7	202.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.3	369.4	366.9	362.0	357.1	352.1	347.2
115°	427.3	428.9	430.1	430.7	431.4	432.0	432.7
117.5°	478.1	479.4	480.1	480.3	480.4	480.5	480.7
120°	511.7	513.0	513.6	513.6	513.6	513.6	513.6
122.5°	544.0	545.0	545.5	545.6	545.7	545.9	546.0
125°	589.7	590.0	590.3	590.7	591.0	591.3	591.6
127.5°	636.2	636.7	636.8	636.5	636.1	635.8	635.5
130°	664.2	664.9	665.1	664.7	664.4	664.1	663.7
132.5°	690.7	691.4	691.5	691.0	690.6	690.1	689.6
135°	730.7	731.2	731.2	730.7	730.2	729.7	729.2
137.5°	766.8	767.6	767.8	767.5	767.1	766.8	766.5
140°	789.3	790.0	790.2	789.8	789.5	789.2	788.8
142.5°	810.7	811.2	811.3	810.8	810.4	809.9	809.4
145°	840.6	840.9	841.1	841.1	841.1	841.1	841.1
147.5°	867.5	867.9	867.6	866.9	866.1	865.4	864.6
150°	884.0	884.3	884.3	883.8	883.3	882.8	882.3
152.5°	898.9	899.5	899.4	898.7	897.9	897.2	896.4
155°	919.3	920.2	920.1	919.1	918.1	917.1	916.1
157.5°	937.0	938.0	937.9	936.6	935.3	934.1	932.8
160°	947.1	948.0	948.0	946.8	945.7	944.5	943.4
162.5°	956.3	957.4	957.4	956.4	955.4	954.4	953.4
165°	968.6	969.9	970.0	968.9	967.7	966.6	965.4
167.5°	978.1	979.4	979.4	978.1	976.7	975.4	974.1
170°	983.4	984.7	984.7	983.4	982.0	980.7	979.4
172.5°	986.9	988.2	988.1	986.7	985.3	983.8	982.4
175°	991.0	992.1	992.0	990.7	989.4	988.1	986.8
177.5°	992.4	993.5	993.3	992.0	990.7	989.4	988.1
180°	990.5	990.5	990.5	990.5	990.5	990.5	990.5

(END OF REPORT)