

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: P332216-940

Luminaire Tested: **S123DIW-S1165D755U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332216-940
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-S1165D755U940-4F0-1E-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: 7061.6 lumens
Efficiency: N/A
Efficacy: 118.1 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

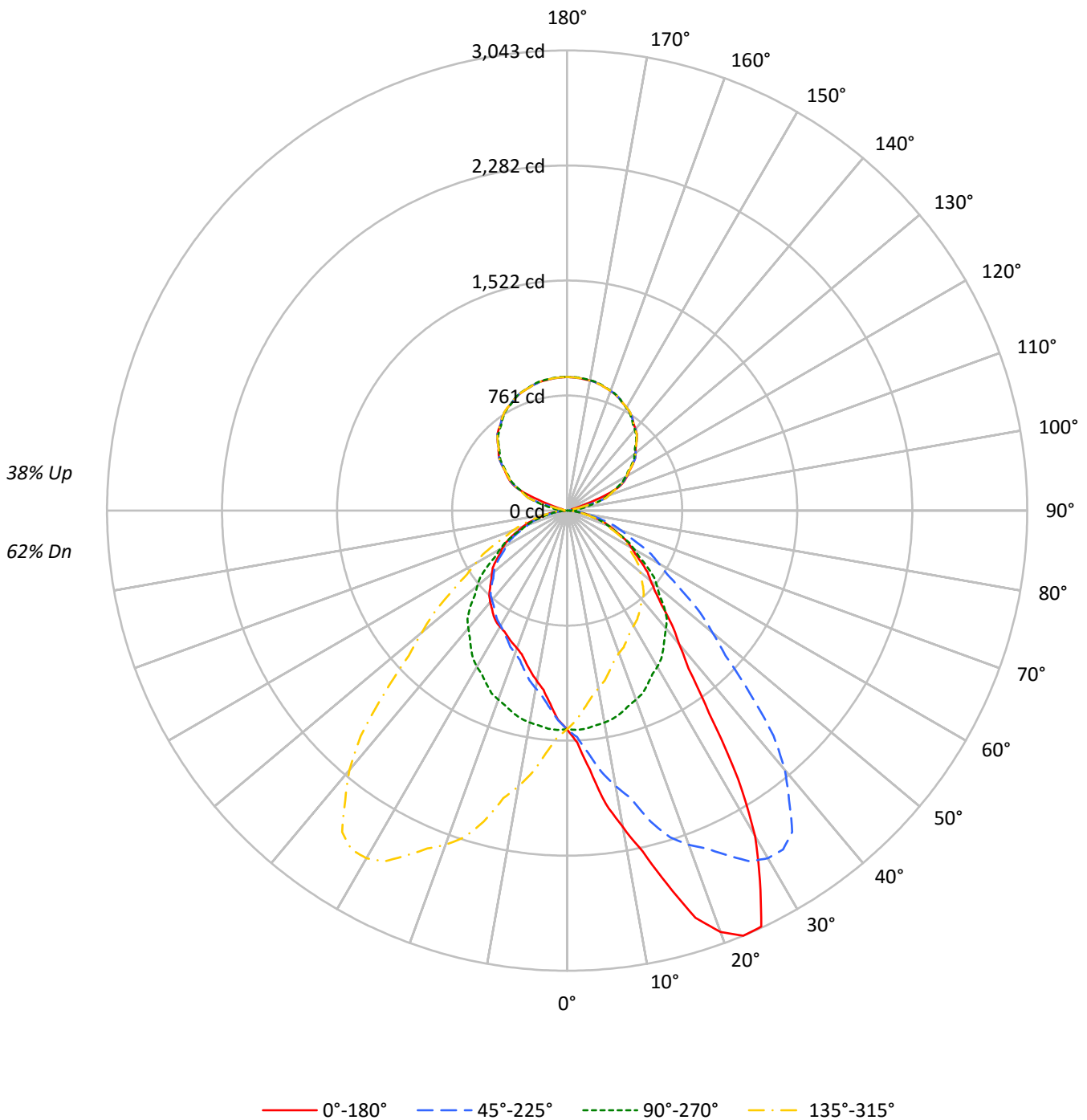
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	15569	15569	15569	15569
5°	18567	15637	13857	15637
10°	23240	15557	12516	15557
15°	28505	15432	11652	15432
20°	33956	15237	11094	15237
25°	36056	14998	10969	14998
30°	30904	14825	11028	14825
35°	21494	14578	11143	14578
40°	16190	14289	11108	14289
45°	13443	13857	10966	13857
50°	12042	12980	10868	12980
55°	11258	12033	10732	12033
60°	10559	11044	10622	11044
65°	9926	10068	10282	10068
70°	9309	8954	9791	8954
75°	8339	7839	8979	7839
80°	7296	6428	7736	6428
85°	5718	4668	5199	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	2.0
10°-20°	456.9	6.5
20°-30°	766.8	10.9
30°-40°	868.3	12.3
40°-50°	778.6	11.0
50°-60°	628.3	8.9
60°-70°	437.9	6.2
70°-80°	230.1	3.3
80°-90°	58.8	0.8
90°-100°	32.1	0.5
100°-110°	153.0	2.2
110°-120°	367.6	5.2
120°-130°	468.1	6.6
130°-140°	500.2	7.1
140°-150°	467.7	6.6
150°-160°	377.3	5.3
160°-170°	243.5	3.4
170°-180°	83.9	1.2
0°-30°	1366.2	19.3
0°-40°	2234.5	31.6
0°-60°	3641.5	51.6
0°-90°	4368.2	61.9
90°-120°	552.8	7.8
90°-150°	1988.7	28.2
90°-180°	2693.0	38.1
0°-180°	7061.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1446	1446	1446	1446	1446	
5°	1718	1447	1282	1447	1718	178
15°	2558	1385	1046	1385	2558	739
25°	3036	1263	924	1263	3036	1331
35°	1636	1109	848	1109	1636	1063
45°	883	910	720	910	883	699
55°	600	641	572	641	600	538
65°	390	395	404	395	390	388
75°	200	188	216	188	200	215
85°	46	38	42	38	46	55
90°	20	1	20	1	20	11
95°	25	40	25	40	25	21
105°	29	196	29	196	29	66
115°	386	367	386	367	386	357
125°	528	517	528	517	528	471
135°	650	644	650	644	650	501
145°	750	743	750	743	750	468
155°	817	818	817	818	817	377
165°	861	863	861	863	861	243
175°	880	883	880	883	880	84
180°	883	883	883	883	883	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1535.1	1533.9	1531.2	1533.4	1528.9	1522.7	1522.2	1516.5	1500.3	1499.1	1494.7
5°	1718.4	1712.8	1712.1	1711.4	1701.6	1688.3	1663.0	1660.9	1627.3	1610.4	1590.2
7.5°	1955.8	1958.7	1948.6	1939.6	1909.6	1889.8	1862.8	1828.2	1786.8	1744.9	1717.0
10°	2126.3	2149.4	2120.7	2101.0	2082.9	2048.4	2008.6	1958.7	1909.0	1850.8	1806.7
12.5°	2309.1	2320.4	2314.6	2296.2	2267.8	2215.5	2144.7	2090.0	2044.2	1947.3	1908.2
15°	2558.0	2600.8	2573.4	2510.3	2511.7	2461.9	2369.5	2267.8	2213.9	2129.0	2013.5
17.5°	2823.2	2828.5	2816.8	2764.3	2729.3	2660.9	2575.5	2478.1	2368.7	2266.2	2143.5
20°	2964.4	2960.2	2935.7	2908.4	2848.1	2794.9	2701.6	2593.0	2452.8	2352.0	2218.0
22.5°	3043.0	3035.9	3024.3	3001.4	2951.3	2894.0	2810.4	2691.7	2558.2	2419.2	2264.6
25°	3035.9	3045.0	3046.4	3040.1	3022.6	2988.3	2922.4	2827.8	2694.7	2516.0	2354.7
27.5°	2761.2	2774.1	2811.6	2844.7	2881.9	2919.7	2914.6	2867.7	2769.2	2614.9	2417.8
30°	2486.4	2458.4	2527.8	2615.5	2675.0	2780.1	2839.0	2842.5	2787.1	2654.7	2462.6
32.5°	2105.2	2136.1	2166.8	2274.6	2404.8	2522.8	2640.0	2734.3	2745.1	2656.9	2489.0
35°	1635.7	1674.3	1730.3	1786.4	1926.5	2047.1	2253.1	2432.5	2575.5	2594.4	2491.4
37.5°	1318.1	1337.1	1372.6	1428.8	1520.5	1663.5	1822.8	2049.6	2256.7	2410.8	2417.5
40°	1152.2	1157.7	1197.7	1240.5	1314.7	1432.4	1576.1	1776.6	2024.6	2239.8	2329.5
42.5°	1027.7	1040.0	1056.9	1098.1	1157.2	1245.8	1379.4	1545.0	1772.4	2020.0	2195.5
45°	883.1	897.1	907.6	934.9	977.0	1036.5	1129.7	1281.1	1454.2	1709.9	1946.2
47.5°	787.5	788.5	796.4	817.0	845.6	890.3	956.2	1053.5	1212.4	1419.9	1662.3
50°	719.1	730.2	733.1	749.1	771.6	804.5	859.2	941.9	1072.3	1254.5	1477.3
52.5°	670.8	674.2	682.1	693.7	713.3	739.0	786.3	851.0	953.4	1108.7	1313.6
55°	599.9	599.9	607.6	616.7	627.9	651.0	682.6	730.2	808.1	928.5	1098.1
57.5°	534.3	537.8	543.2	546.1	555.6	570.9	597.3	633.4	691.4	784.2	919.1
60°	490.5	496.9	496.1	501.8	510.2	522.1	544.6	574.0	625.8	700.1	813.7
62.5°	452.5	452.0	451.9	458.6	467.0	478.4	492.9	518.4	562.5	628.4	725.1
65°	389.7	388.3	393.2	397.3	400.2	408.6	419.8	442.2	471.6	520.7	595.7
67.5°	333.9	329.8	332.4	333.9	338.7	345.2	355.7	369.6	393.0	432.4	488.9
70°	295.8	292.2	291.5	292.9	297.1	302.0	309.8	323.1	344.8	376.3	417.7
72.5°	256.5	254.1	254.0	257.1	259.0	262.3	267.7	279.9	297.1	320.8	359.4
75°	200.5	200.5	200.5	201.2	203.2	206.1	210.3	216.5	229.9	246.6	272.6
77.5°	150.3	150.1	149.3	149.1	152.2	153.5	154.4	160.3	167.7	179.1	198.0
80°	117.7	114.2	115.7	117.7	119.1	119.8	122.0	123.3	129.7	136.0	149.3
82.5°	87.5	84.5	84.8	88.0	88.3	89.0	91.1	93.1	95.4	101.2	108.3
85°	46.3	46.3	47.0	47.0	47.6	47.0	49.0	49.8	49.8	53.2	57.4
87.5°	20.8	19.6	20.1	20.6	20.0	20.4	20.9	21.3	21.8	22.2	22.4
90°	19.7	19.4	19.1	18.8	18.5	18.1	17.5	16.9	16.3	15.8	13.8
92.5°	21.8	21.6	21.4	21.2	21.0	20.5	19.6	18.6	17.7	16.8	15.3
95°	25.0	25.0	25.0	25.0	25.0	24.4	23.4	22.4	21.4	20.3	18.7
97.5°	27.0	26.9	26.8	26.6	26.5	25.8	24.6	23.5	22.3	21.1	31.7
100°	27.6	27.4	27.3	27.1	27.0	26.3	25.1	24.0	22.8	21.7	44.4
102.5°	28.1	27.8	27.6	27.3	27.0	28.7	32.4	35.9	39.6	43.2	68.0
105°	28.9	28.6	28.3	28.0	27.7	40.5	66.3	92.1	117.9	143.7	156.9
107.5°	90.7	110.1	129.6	149.0	168.5	187.7	206.6	225.5	244.4	263.4	261.4
110°	180.5	201.3	222.1	243.0	263.9	276.7	281.5	286.3	291.1	296.0	294.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	309.6	314.0	318.4	322.8	327.2	329.4	329.3	329.2	329.1	329.0	327.4
115°	385.8	385.2	384.7	384.1	383.5	382.5	381.0	379.6	378.1	376.7	375.3
117.5°	428.6	428.5	428.4	428.3	428.1	427.5	426.3	425.2	424.0	422.8	422.1
120°	458.0	458.0	458.0	458.0	458.0	457.4	456.3	455.1	454.0	452.7	452.4
122.5°	486.9	486.8	486.6	486.5	486.4	486.0	485.1	484.3	483.5	482.7	482.1
125°	527.5	527.3	527.0	526.7	526.4	526.1	525.8	525.5	525.2	525.0	524.3
127.5°	566.7	566.9	567.2	567.6	567.8	567.8	567.3	566.9	566.3	565.9	565.2
130°	591.8	592.2	592.5	592.7	593.1	592.9	592.3	591.7	591.1	590.6	590.0
132.5°	614.9	615.4	615.8	616.2	616.6	616.5	615.9	615.4	614.7	614.2	613.7
135°	650.2	650.7	651.1	651.6	652.0	652.0	651.6	651.1	650.7	650.2	649.7
137.5°	683.5	683.8	684.0	684.4	684.7	684.5	683.8	683.1	682.3	681.6	681.4
140°	703.4	703.7	704.0	704.3	704.6	704.5	703.8	703.3	702.7	702.1	701.7
142.5°	721.8	722.2	722.6	723.0	723.4	723.4	722.9	722.5	722.0	721.6	721.1
145°	750.0	750.0	750.0	750.0	750.0	749.8	749.6	749.3	748.9	748.7	748.4
147.5°	771.0	771.7	772.3	773.0	773.6	773.9	773.6	773.3	773.0	772.7	772.4
150°	786.8	787.2	787.6	788.1	788.5	788.5	788.3	788.0	787.7	787.4	787.1
152.5°	799.3	800.0	800.7	801.4	802.0	802.1	801.6	801.0	800.5	800.0	799.9
155°	816.9	817.8	818.7	819.6	820.5	820.6	819.7	819.0	818.3	817.6	817.4
157.5°	831.8	832.9	834.0	835.2	836.3	836.4	835.5	834.7	833.8	832.9	833.1
160°	841.2	842.2	843.3	844.3	845.3	845.3	844.5	843.6	842.8	841.9	842.0
162.5°	850.2	851.0	851.9	852.8	853.7	853.7	852.7	851.8	850.8	849.7	849.9
165°	860.9	861.9	862.9	864.0	865.0	864.9	863.7	862.6	861.4	860.2	860.4
167.5°	868.6	869.8	870.9	872.2	873.3	873.3	872.2	870.9	869.8	868.6	868.6
170°	873.3	874.5	875.7	876.9	878.1	878.1	876.9	875.7	874.5	873.3	873.3
172.5°	876.0	877.3	878.6	879.9	881.1	881.2	880.0	878.9	877.7	876.6	876.4
175°	879.9	881.1	882.3	883.4	884.6	884.7	883.7	882.6	881.6	880.6	880.5
177.5°	881.1	882.3	883.4	884.6	885.7	885.9	884.9	884.0	883.1	882.2	882.1
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1491.3	1486.8	1482.4	1474.5	1467.8	1458.2	1455.5	1452.1	1442.0	1433.1	1426.3
5°	1582.4	1565.6	1541.1	1518.7	1500.5	1476.0	1461.9	1447.2	1426.1	1407.2	1391.8
7.5°	1677.8	1644.7	1606.5	1565.3	1527.0	1490.0	1460.1	1433.4	1404.0	1376.1	1354.4
10°	1753.5	1705.8	1652.5	1595.1	1546.0	1498.3	1458.4	1423.3	1385.5	1352.5	1325.3
12.5°	1839.8	1769.2	1695.7	1625.9	1567.9	1501.7	1453.3	1408.8	1365.9	1326.2	1295.6
15°	1942.0	1852.3	1765.3	1669.4	1581.0	1498.3	1440.9	1384.8	1335.1	1294.4	1255.2
17.5°	2035.1	1933.4	1818.9	1702.1	1595.6	1497.5	1417.0	1353.7	1291.5	1241.7	1202.6
20°	2087.8	1972.1	1842.5	1721.2	1603.5	1494.2	1405.9	1330.2	1262.8	1210.3	1166.2
22.5°	2133.2	1997.9	1863.8	1734.1	1602.9	1485.1	1385.1	1307.2	1234.3	1182.9	1135.9
25°	2180.2	2018.4	1883.8	1731.7	1585.3	1463.3	1351.2	1262.8	1190.0	1129.7	1081.4
27.5°	2220.6	2017.0	1857.3	1693.7	1557.5	1435.3	1315.5	1220.8	1143.4	1078.0	1028.9
30°	2247.5	2019.7	1829.8	1667.9	1530.6	1404.4	1288.1	1192.8	1111.5	1044.9	998.6
32.5°	2264.3	2018.0	1804.6	1632.1	1488.0	1376.4	1258.4	1159.7	1076.2	1010.8	966.2
35°	2274.1	2005.7	1761.1	1557.9	1419.2	1310.5	1211.7	1109.4	1021.8	960.8	910.3
37.5°	2254.5	1979.8	1710.7	1486.4	1334.5	1227.5	1144.4	1057.2	973.4	906.3	862.8
40°	2223.7	1963.0	1671.4	1436.0	1276.2	1173.1	1102.4	1016.9	934.2	870.4	829.7
42.5°	2164.8	1928.8	1628.3	1379.9	1215.7	1112.6	1047.4	976.0	897.8	837.9	797.3
45°	2021.2	1854.3	1563.5	1295.8	1126.2	1019.7	962.2	910.3	839.5	781.4	746.4
47.5°	1821.9	1742.4	1469.9	1207.1	1032.9	930.4	870.7	828.9	777.2	730.2	696.6
50°	1683.4	1650.4	1406.5	1146.6	970.6	870.4	813.0	775.1	738.0	691.0	660.1
52.5°	1523.6	1543.9	1332.6	1083.7	907.3	808.8	754.7	724.6	690.9	652.3	625.4
55°	1298.6	1372.2	1204.7	978.3	813.0	719.1	667.9	641.2	621.6	592.9	569.8
57.5°	1088.0	1181.6	1066.5	869.7	720.3	639.3	590.2	561.2	548.6	533.6	515.4
60°	963.0	1055.4	967.9	796.8	658.1	580.9	537.5	513.0	500.3	489.9	474.5
62.5°	851.3	944.9	871.4	722.8	596.9	525.5	487.6	463.7	453.9	448.4	435.2
65°	698.0	778.6	729.5	607.6	509.5	446.4	412.1	395.3	386.1	384.1	375.7
67.5°	568.1	629.5	593.7	504.0	426.8	372.3	343.1	328.9	321.8	321.1	314.8
70°	482.9	540.3	513.0	431.7	365.2	322.4	297.1	284.5	280.4	279.6	276.2
72.5°	416.7	456.8	435.1	367.2	315.8	277.0	258.4	245.3	240.5	241.5	239.2
75°	308.4	338.5	325.9	278.9	237.6	212.3	196.9	188.5	184.3	186.5	183.6
77.5°	221.9	240.9	229.6	197.1	171.6	153.4	142.0	136.8	133.0	132.9	131.6
80°	167.5	178.7	172.4	152.8	131.8	116.4	107.2	103.7	101.7	100.9	100.2
82.5°	119.3	128.9	121.4	107.9	93.6	84.4	79.2	74.5	73.0	73.5	72.8
85°	60.3	63.8	61.0	52.5	47.0	42.7	39.9	37.8	36.5	37.2	35.8
87.5°	23.1	23.3	21.2	18.6	17.3	15.2	15.0	13.6	12.8	13.0	12.8
90°	11.9	10.1	8.2	6.5	5.0	3.6	2.1	0.6	2.1	3.6	5.0
92.5°	13.9	12.5	11.1	10.6	11.0	11.4	11.8	12.2	11.8	11.4	11.0
95°	17.1	15.5	13.9	16.1	22.1	28.1	34.1	40.0	34.1	28.1	22.1
97.5°	42.1	52.6	63.1	69.7	72.4	75.1	77.8	80.4	77.8	75.1	72.4
100°	67.1	89.9	112.6	122.5	119.7	116.7	113.8	110.9	113.8	116.7	119.7
102.5°	92.8	117.7	142.6	153.9	151.9	149.7	147.7	145.5	147.7	149.7	151.9
105°	170.0	183.1	196.2	202.0	200.4	198.8	197.2	195.6	197.2	198.8	200.4
107.5°	259.2	257.2	255.1	253.4	252.2	250.8	249.6	248.3	249.6	250.8	252.2
110°	292.7	291.1	289.5	288.1	287.0	285.8	284.6	283.5	284.6	285.8	287.0



TEST NUMBER: P332216-940

CATALOG NUMBER: S123DIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	325.8	324.2	322.6	321.3	320.2	319.1	318.1	317.1	318.1	319.1	320.2
115°	374.0	372.7	371.4	370.3	369.4	368.5	367.7	366.8	367.7	368.5	369.4
117.5°	421.5	420.8	420.2	419.3	418.2	417.1	416.1	415.0	416.1	417.1	418.2
120°	451.9	451.5	451.0	450.1	448.8	447.5	446.2	444.9	446.2	447.5	448.8
122.5°	481.6	481.0	480.5	479.7	478.6	477.5	476.4	475.4	476.4	477.5	478.6
125°	523.8	523.2	522.6	521.7	520.6	519.4	518.3	517.1	518.3	519.4	520.6
127.5°	564.5	563.8	563.1	562.1	561.0	559.8	558.7	557.5	558.7	559.8	561.0
130°	589.4	588.8	588.3	587.4	586.2	585.1	583.9	582.6	583.9	585.1	586.2
132.5°	613.2	612.8	612.3	611.5	610.3	609.1	608.0	606.8	608.0	609.1	610.3
135°	649.1	648.5	647.9	647.2	646.3	645.4	644.6	643.7	644.6	645.4	646.3
137.5°	681.0	680.6	680.4	679.7	678.5	677.4	676.3	675.2	676.3	677.4	678.5
140°	701.2	700.8	700.3	699.7	698.8	697.9	697.1	696.2	697.1	697.9	698.8
142.5°	720.7	720.2	719.8	719.2	718.3	717.4	716.5	715.6	716.5	717.4	718.3
145°	748.1	747.8	747.5	746.9	745.8	744.8	743.8	742.8	743.8	744.8	745.8
147.5°	772.1	771.9	771.5	771.1	770.3	769.7	769.0	768.4	769.0	769.7	770.3
150°	786.8	786.6	786.2	785.9	785.4	785.0	784.5	784.2	784.5	785.0	785.4
152.5°	799.7	799.5	799.3	799.2	798.9	798.7	798.5	798.3	798.5	798.7	798.9
155°	817.3	817.2	817.0	817.1	817.3	817.7	818.0	818.2	818.0	817.7	817.3
157.5°	833.2	833.4	833.6	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7
160°	842.1	842.3	842.5	842.6	842.8	842.9	843.0	843.2	843.0	842.9	842.8
162.5°	850.1	850.2	850.3	850.6	851.0	851.3	851.8	852.1	851.8	851.3	851.0
165°	860.5	860.7	860.9	861.1	861.6	862.0	862.5	862.9	862.5	862.0	861.6
167.5°	868.6	868.6	868.6	869.0	869.5	870.1	870.7	871.3	870.7	870.1	869.5
170°	873.3	873.3	873.3	873.7	874.2	874.9	875.4	876.0	875.4	874.9	874.2
172.5°	876.3	876.2	876.0	876.4	877.1	877.7	878.4	879.1	878.4	877.7	877.1
175°	880.3	880.1	880.0	880.3	881.0	881.7	882.4	883.2	882.4	881.7	881.0
177.5°	881.9	881.8	881.7	881.9	882.5	883.1	883.7	884.2	883.7	883.1	882.5
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P332216-940

CATALOG NUMBER: S123DIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1422.4	1418.4	1412.8	1404.4	1397.7	1387.1	1387.1	1388.8	1388.8	1388.2	1387.1
5°	1379.2	1368.7	1356.1	1341.4	1326.0	1310.5	1307.7	1302.1	1297.9	1295.1	1291.6
7.5°	1333.6	1315.0	1296.6	1276.0	1257.2	1241.7	1230.9	1221.9	1216.2	1210.1	1205.5
10°	1302.8	1279.7	1257.9	1236.3	1212.4	1193.5	1181.6	1173.1	1166.9	1161.3	1158.4
12.5°	1266.4	1239.9	1215.9	1195.3	1169.2	1149.8	1138.4	1134.4	1127.0	1115.3	1109.1
15°	1213.1	1188.6	1159.8	1128.3	1115.7	1091.9	1078.5	1072.3	1068.0	1058.9	1056.1
17.5°	1167.5	1135.4	1103.2	1079.7	1056.2	1036.9	1029.5	1021.6	1016.0	1008.6	1006.4
20°	1131.1	1102.4	1072.9	1047.8	1023.1	1002.2	995.9	990.2	984.6	981.1	978.3
22.5°	1094.1	1065.4	1041.0	1017.4	991.2	977.5	970.6	964.5	960.6	958.1	955.4
25°	1042.1	1016.9	989.5	968.5	947.5	938.3	934.2	930.7	927.9	924.3	923.6
27.5°	995.6	968.1	945.9	926.3	911.2	903.7	899.6	897.9	898.5	899.7	900.5
30°	960.8	935.6	917.4	900.5	886.5	879.5	878.8	878.8	881.6	882.3	883.7
32.5°	928.9	908.1	889.9	873.6	863.0	858.2	860.9	860.9	863.1	865.0	867.5
35°	882.3	864.1	850.1	836.1	827.0	829.0	830.5	831.9	835.4	839.5	842.4
37.5°	837.9	822.1	807.4	796.6	792.4	796.1	799.5	802.5	806.5	809.8	812.5
40°	805.9	794.0	780.0	770.2	771.6	773.7	776.5	780.0	783.5	785.6	788.5
42.5°	776.2	763.8	753.1	744.9	746.9	749.6	751.3	753.1	757.2	761.0	762.6
45°	730.9	721.1	711.3	706.4	707.8	709.3	710.6	712.7	716.2	719.1	719.7
47.5°	680.1	673.2	666.6	661.8	664.1	663.5	665.4	669.9	670.9	672.6	676.5
50°	647.6	641.2	633.6	632.1	632.1	632.1	632.8	638.5	638.5	641.2	644.1
52.5°	611.7	607.6	602.7	600.2	599.1	599.1	602.0	604.8	605.9	609.8	612.7
55°	558.6	554.4	550.1	548.0	546.6	548.0	553.7	555.0	558.6	560.6	562.8
57.5°	503.2	500.0	496.6	495.4	495.2	497.0	500.1	504.3	505.2	511.6	514.8
60°	466.7	461.8	459.1	459.1	457.6	464.0	462.5	469.6	470.9	475.2	480.1
62.5°	429.2	422.6	421.5	421.5	423.5	425.3	427.2	430.3	433.9	439.3	443.1
65°	368.6	365.2	370.1	369.3	367.9	372.1	372.1	375.7	379.9	384.8	392.4
67.5°	311.3	309.5	309.9	309.9	312.0	314.4	316.4	319.4	324.5	329.7	334.7
70°	272.6	274.7	271.3	274.0	276.2	276.8	278.2	282.4	288.0	291.5	297.1
72.5°	235.1	234.9	235.3	236.5	238.5	239.8	241.2	246.0	252.2	255.1	259.6
75°	180.8	180.1	182.2	182.2	185.7	187.1	188.5	190.6	196.3	200.5	203.9
77.5°	132.1	132.9	132.4	134.8	133.8	134.1	138.5	140.6	141.2	149.5	151.2
80°	99.5	100.9	101.7	102.3	103.0	101.7	106.6	108.6	108.6	113.5	117.0
82.5°	71.5	72.3	74.2	74.8	75.0	76.4	76.8	78.4	80.1	82.1	86.8
85°	35.8	37.8	38.5	37.8	38.5	37.2	39.2	39.9	40.7	40.7	40.7
87.5°	12.5	13.4	13.2	14.2	14.0	14.9	15.1	14.0	14.2	16.0	13.8
90°	6.5	8.2	10.1	11.9	13.8	15.8	16.3	16.9	17.5	18.1	18.5
92.5°	10.6	11.1	12.5	13.9	15.3	16.8	17.7	18.6	19.6	20.5	21.0
95°	16.1	13.9	15.5	17.1	18.7	20.3	21.4	22.4	23.4	24.4	25.0
97.5°	69.7	63.1	52.6	42.1	31.7	21.1	22.3	23.5	24.6	25.8	26.5
100°	122.5	112.6	89.9	67.1	44.4	21.7	22.8	24.0	25.1	26.3	27.0
102.5°	153.9	142.6	117.7	92.8	68.0	43.2	39.6	35.9	32.4	28.7	27.0
105°	202.0	196.2	183.1	170.0	156.9	143.7	117.9	92.1	66.3	40.5	27.7
107.5°	253.4	255.1	257.2	259.2	261.4	263.4	244.4	225.5	206.6	187.7	168.5
110°	288.1	289.5	291.1	292.7	294.4	296.0	291.1	286.3	281.5	276.7	263.9



TEST NUMBER: P332216-940

CATALOG NUMBER: S123DIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	321.3	322.6	324.2	325.8	327.4	329.0	329.1	329.2	329.3	329.4	327.2
115°	370.3	371.4	372.7	374.0	375.3	376.7	378.1	379.6	381.0	382.5	383.5
117.5°	419.3	420.2	420.8	421.5	422.1	422.8	424.0	425.2	426.3	427.5	428.1
120°	450.1	451.0	451.5	451.9	452.4	452.7	454.0	455.1	456.3	457.4	458.0
122.5°	479.7	480.5	481.0	481.6	482.1	482.7	483.5	484.3	485.1	486.0	486.4
125°	521.7	522.6	523.2	523.8	524.3	525.0	525.2	525.5	525.8	526.1	526.4
127.5°	562.1	563.1	563.8	564.5	565.2	565.9	566.3	566.9	567.3	567.8	567.8
130°	587.4	588.3	588.8	589.4	590.0	590.6	591.1	591.7	592.3	592.9	593.1
132.5°	611.5	612.3	612.8	613.2	613.7	614.2	614.7	615.4	615.9	616.5	616.6
135°	647.2	647.9	648.5	649.1	649.7	650.2	650.7	651.1	651.6	652.0	652.0
137.5°	679.7	680.4	680.6	681.0	681.4	681.6	682.3	683.1	683.8	684.5	684.7
140°	699.7	700.3	700.8	701.2	701.7	702.1	702.7	703.3	703.8	704.5	704.6
142.5°	719.2	719.8	720.2	720.7	721.1	721.6	722.0	722.5	722.9	723.4	723.4
145°	746.9	747.5	747.8	748.1	748.4	748.7	748.9	749.3	749.6	749.8	750.0
147.5°	771.1	771.5	771.9	772.1	772.4	772.7	773.0	773.3	773.6	773.9	773.6
150°	785.9	786.2	786.6	786.8	787.1	787.4	787.7	788.0	788.3	788.5	788.5
152.5°	799.2	799.3	799.5	799.7	799.9	800.0	800.5	801.0	801.6	802.1	802.0
155°	817.1	817.0	817.2	817.3	817.4	817.6	818.3	819.0	819.7	820.6	820.5
157.5°	833.7	833.6	833.4	833.2	833.1	832.9	833.8	834.7	835.5	836.4	836.3
160°	842.6	842.5	842.3	842.1	842.0	841.9	842.8	843.6	844.5	845.3	845.3
162.5°	850.6	850.3	850.2	850.1	849.9	849.7	850.8	851.8	852.7	853.7	853.7
165°	861.1	860.9	860.7	860.5	860.4	860.2	861.4	862.6	863.7	864.9	865.0
167.5°	869.0	868.6	868.6	868.6	868.6	868.6	869.8	870.9	872.2	873.3	873.3
170°	873.7	873.3	873.3	873.3	873.3	873.3	874.5	875.7	876.9	878.1	878.1
172.5°	876.4	876.0	876.2	876.3	876.4	876.6	877.7	878.9	880.0	881.2	881.1
175°	880.3	880.0	880.1	880.3	880.5	880.6	881.6	882.6	883.7	884.7	884.6
177.5°	881.9	881.7	881.8	881.9	882.1	882.2	883.1	884.0	884.9	885.9	885.7
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P332216-940

CATALOG NUMBER: S123DIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1383.1	1382.6	1386.5	1383.7	1386.5	1382.6	1383.1	1387.1	1388.2	1388.8	1388.8
5°	1287.4	1289.5	1282.5	1282.5	1282.5	1289.5	1287.4	1291.6	1295.1	1297.9	1302.1
7.5°	1202.2	1199.1	1199.4	1195.6	1199.4	1199.1	1202.2	1205.5	1210.1	1216.2	1221.9
10°	1150.0	1145.8	1144.4	1145.1	1144.4	1145.8	1150.0	1158.4	1161.3	1166.9	1173.1
12.5°	1106.9	1106.0	1096.8	1096.9	1096.8	1106.0	1106.9	1109.1	1115.3	1127.0	1134.4
15°	1056.1	1042.9	1041.4	1045.6	1041.4	1042.9	1056.1	1056.1	1058.9	1068.0	1072.3
17.5°	1005.2	998.3	998.6	996.6	998.6	998.3	1005.2	1006.4	1008.6	1016.0	1021.6
20°	978.3	974.1	973.4	968.5	973.4	974.1	978.3	978.3	981.1	984.6	990.2
22.5°	953.7	952.3	952.7	947.3	952.7	952.3	953.7	955.4	958.1	960.6	964.5
25°	923.0	926.5	923.6	923.6	923.6	926.5	923.0	923.6	924.3	927.9	930.7
27.5°	902.2	902.1	900.7	900.7	900.7	902.1	902.2	900.5	899.7	898.5	897.9
30°	886.5	885.8	887.3	887.3	887.3	885.8	886.5	883.7	882.3	881.6	878.8
32.5°	870.8	871.8	872.1	872.6	872.1	871.8	870.8	867.5	865.0	863.1	860.9
35°	846.6	847.3	849.4	848.0	849.4	847.3	846.6	842.4	839.5	835.4	831.9
37.5°	813.8	817.0	816.3	817.4	816.3	817.0	813.8	812.5	809.8	806.5	802.5
40°	789.1	791.2	790.5	790.5	790.5	791.2	789.1	788.5	785.6	783.5	780.0
42.5°	763.9	765.4	763.6	762.5	763.6	765.4	763.9	762.6	761.0	757.2	753.1
45°	722.6	721.1	723.3	720.4	723.3	721.1	722.6	719.7	719.1	716.2	712.7
47.5°	676.3	677.7	678.2	680.4	678.2	677.7	676.3	676.5	672.6	670.9	669.9
50°	645.4	649.6	649.6	649.0	649.6	649.6	645.4	644.1	641.2	638.5	638.5
52.5°	615.2	617.2	619.9	619.8	619.9	617.2	615.2	612.7	609.8	605.9	604.8
55°	568.4	569.8	571.1	571.9	571.1	569.8	568.4	562.8	560.6	558.6	555.0
57.5°	519.9	519.3	522.6	523.6	522.6	519.3	519.9	514.8	511.6	505.2	504.3
60°	485.6	485.6	491.2	493.4	491.2	485.6	485.6	480.1	475.2	470.9	469.6
62.5°	449.2	451.5	457.1	454.1	457.1	451.5	449.2	443.1	439.3	433.9	430.3
65°	395.9	401.5	400.8	403.7	400.8	401.5	395.9	392.4	384.8	379.9	375.7
67.5°	340.3	343.8	348.8	349.3	348.8	343.8	340.3	334.7	329.7	324.5	319.4
70°	302.7	306.2	309.1	311.1	309.1	306.2	302.7	297.1	291.5	288.0	282.4
72.5°	266.4	268.1	274.8	271.9	274.8	268.1	266.4	259.6	255.1	252.2	246.0
75°	208.8	213.7	217.9	215.9	217.9	213.7	208.8	203.9	200.5	196.3	190.6
77.5°	154.4	159.3	161.3	159.5	161.3	159.3	154.4	151.2	149.5	141.2	140.6
80°	122.0	121.3	125.5	124.8	125.5	121.3	122.0	117.0	113.5	108.6	108.6
82.5°	89.4	88.7	90.7	91.1	90.7	88.7	89.4	86.8	82.1	80.1	78.4
85°	43.4	45.6	42.7	42.1	42.7	45.6	43.4	40.7	40.7	40.7	39.9
87.5°	13.8	13.9	13.4	12.9	13.4	13.9	13.8	13.8	16.0	14.2	14.0
90°	18.8	19.1	19.4	19.7	19.4	19.1	18.8	18.5	18.1	17.5	16.9
92.5°	21.2	21.4	21.6	21.8	21.6	21.4	21.2	21.0	20.5	19.6	18.6
95°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.4	23.4	22.4
97.5°	26.6	26.8	26.9	27.0	26.9	26.8	26.6	26.5	25.8	24.6	23.5
100°	27.1	27.3	27.4	27.6	27.4	27.3	27.1	27.0	26.3	25.1	24.0
102.5°	27.3	27.6	27.8	28.1	27.8	27.6	27.3	27.0	28.7	32.4	35.9
105°	28.0	28.3	28.6	28.9	28.6	28.3	28.0	27.7	40.5	66.3	92.1
107.5°	149.0	129.6	110.1	90.7	110.1	129.6	149.0	168.5	187.7	206.6	225.5
110°	243.0	222.1	201.3	180.5	201.3	222.1	243.0	263.9	276.7	281.5	286.3



TEST NUMBER: P332216-940

CATALOG NUMBER: S123DIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	322.8	318.4	314.0	309.6	314.0	318.4	322.8	327.2	329.4	329.3	329.2
115°	384.1	384.7	385.2	385.8	385.2	384.7	384.1	383.5	382.5	381.0	379.6
117.5°	428.3	428.4	428.5	428.6	428.5	428.4	428.3	428.1	427.5	426.3	425.2
120°	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0	457.4	456.3	455.1
122.5°	486.5	486.6	486.8	486.9	486.8	486.6	486.5	486.4	486.0	485.1	484.3
125°	526.7	527.0	527.3	527.5	527.3	527.0	526.7	526.4	526.1	525.8	525.5
127.5°	567.6	567.2	566.9	566.7	566.9	567.2	567.6	567.8	567.8	567.3	566.9
130°	592.7	592.5	592.2	591.8	592.2	592.5	592.7	593.1	592.9	592.3	591.7
132.5°	616.2	615.8	615.4	614.9	615.4	615.8	616.2	616.6	616.5	615.9	615.4
135°	651.6	651.1	650.7	650.2	650.7	651.1	651.6	652.0	652.0	651.6	651.1
137.5°	684.4	684.0	683.8	683.5	683.8	684.0	684.4	684.7	684.5	683.8	683.1
140°	704.3	704.0	703.7	703.4	703.7	704.0	704.3	704.6	704.5	703.8	703.3
142.5°	723.0	722.6	722.2	721.8	722.2	722.6	723.0	723.4	723.4	722.9	722.5
145°	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	749.8	749.6	749.3
147.5°	773.0	772.3	771.7	771.0	771.7	772.3	773.0	773.6	773.9	773.6	773.3
150°	788.1	787.6	787.2	786.8	787.2	787.6	788.1	788.5	788.5	788.3	788.0
152.5°	801.4	800.7	800.0	799.3	800.0	800.7	801.4	802.0	802.1	801.6	801.0
155°	819.6	818.7	817.8	816.9	817.8	818.7	819.6	820.5	820.6	819.7	819.0
157.5°	835.2	834.0	832.9	831.8	832.9	834.0	835.2	836.3	836.4	835.5	834.7
160°	844.3	843.3	842.2	841.2	842.2	843.3	844.3	845.3	845.3	844.5	843.6
162.5°	852.8	851.9	851.0	850.2	851.0	851.9	852.8	853.7	853.7	852.7	851.8
165°	864.0	862.9	861.9	860.9	861.9	862.9	864.0	865.0	864.9	863.7	862.6
167.5°	872.2	870.9	869.8	868.6	869.8	870.9	872.2	873.3	873.3	872.2	870.9
170°	876.9	875.7	874.5	873.3	874.5	875.7	876.9	878.1	878.1	876.9	875.7
172.5°	879.9	878.6	877.3	876.0	877.3	878.6	879.9	881.1	881.2	880.0	878.9
175°	883.4	882.3	881.1	879.9	881.1	882.3	883.4	884.6	884.7	883.7	882.6
177.5°	884.6	883.4	882.3	881.1	882.3	883.4	884.6	885.7	885.9	884.9	884.0
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P332216-940

CATALOG NUMBER: S123DIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1387.1	1387.1	1397.7	1404.4	1412.8	1418.4	1422.4	1426.3	1433.1	1442.0	1452.1
5°	1307.7	1310.5	1326.0	1341.4	1356.1	1368.7	1379.2	1391.8	1407.2	1426.1	1447.2
7.5°	1230.9	1241.7	1257.2	1276.0	1296.6	1315.0	1333.6	1354.4	1376.1	1404.0	1433.4
10°	1181.6	1193.5	1212.4	1236.3	1257.9	1279.7	1302.8	1325.3	1352.5	1385.5	1423.3
12.5°	1138.4	1149.8	1169.2	1195.3	1215.9	1239.9	1266.4	1295.6	1326.2	1365.9	1408.8
15°	1078.5	1091.9	1115.7	1128.3	1159.8	1188.6	1213.1	1255.2	1294.4	1335.1	1384.8
17.5°	1029.5	1036.9	1056.2	1079.7	1103.2	1135.4	1167.5	1202.6	1241.7	1291.5	1353.7
20°	995.9	1002.2	1023.1	1047.8	1072.9	1102.4	1131.1	1166.2	1210.3	1262.8	1330.2
22.5°	970.6	977.5	991.2	1017.4	1041.0	1065.4	1094.1	1135.9	1182.9	1234.3	1307.2
25°	934.2	938.3	947.5	968.5	989.5	1016.9	1042.1	1081.4	1129.7	1190.0	1262.8
27.5°	899.6	903.7	911.2	926.3	945.9	968.1	995.6	1028.9	1078.0	1143.4	1220.8
30°	878.8	879.5	886.5	900.5	917.4	935.6	960.8	998.6	1044.9	1111.5	1192.8
32.5°	860.9	858.2	863.0	873.6	889.9	908.1	928.9	966.2	1010.8	1076.2	1159.7
35°	830.5	829.0	827.0	836.1	850.1	864.1	882.3	910.3	960.8	1021.8	1109.4
37.5°	799.5	796.1	792.4	796.6	807.4	822.1	837.9	862.8	906.3	973.4	1057.2
40°	776.5	773.7	771.6	770.2	780.0	794.0	805.9	829.7	870.4	934.2	1016.9
42.5°	751.3	749.6	746.9	744.9	753.1	763.8	776.2	797.3	837.9	897.8	976.0
45°	710.6	709.3	707.8	706.4	711.3	721.1	730.9	746.4	781.4	839.5	910.3
47.5°	665.4	663.5	664.1	661.8	666.6	673.2	680.1	696.6	730.2	777.2	828.9
50°	632.8	632.1	632.1	632.1	633.6	641.2	647.6	660.1	691.0	738.0	775.1
52.5°	602.0	599.1	599.1	600.2	602.7	607.6	611.7	625.4	652.3	690.9	724.6
55°	553.7	548.0	546.6	548.0	550.1	554.4	558.6	569.8	592.9	621.6	641.2
57.5°	500.1	497.0	495.2	495.4	496.6	500.0	503.2	515.4	533.6	548.6	561.2
60°	462.5	464.0	457.6	459.1	459.1	461.8	466.7	474.5	489.9	500.3	513.0
62.5°	427.2	425.3	423.5	421.5	421.5	422.6	429.2	435.2	448.4	453.9	463.7
65°	372.1	372.1	367.9	369.3	370.1	365.2	368.6	375.7	384.1	386.1	395.3
67.5°	316.4	314.4	312.0	309.9	309.9	309.5	311.3	314.8	321.1	321.8	328.9
70°	278.2	276.8	276.2	274.0	271.3	274.7	272.6	276.2	279.6	280.4	284.5
72.5°	241.2	239.8	238.5	236.5	235.3	234.9	235.1	239.2	241.5	240.5	245.3
75°	188.5	187.1	185.7	182.2	182.2	180.1	180.8	183.6	186.5	184.3	188.5
77.5°	138.5	134.1	133.8	134.8	132.4	132.9	132.1	131.6	132.9	133.0	136.8
80°	106.6	101.7	103.0	102.3	101.7	100.9	99.5	100.2	100.9	101.7	103.7
82.5°	76.8	76.4	75.0	74.8	74.2	72.3	71.5	72.8	73.5	73.0	74.5
85°	39.2	37.2	38.5	37.8	38.5	37.8	35.8	35.8	37.2	36.5	37.8
87.5°	15.1	14.9	14.0	14.2	13.2	13.4	12.5	12.8	13.0	12.8	13.6
90°	16.3	15.8	13.8	11.9	10.1	8.2	6.5	5.0	3.6	2.1	0.6
92.5°	17.7	16.8	15.3	13.9	12.5	11.1	10.6	11.0	11.4	11.8	12.2
95°	21.4	20.3	18.7	17.1	15.5	13.9	16.1	22.1	28.1	34.1	40.0
97.5°	22.3	21.1	31.7	42.1	52.6	63.1	69.7	72.4	75.1	77.8	80.4
100°	22.8	21.7	44.4	67.1	89.9	112.6	122.5	119.7	116.7	113.8	110.9
102.5°	39.6	43.2	68.0	92.8	117.7	142.6	153.9	151.9	149.7	147.7	145.5
105°	117.9	143.7	156.9	170.0	183.1	196.2	202.0	200.4	198.8	197.2	195.6
107.5°	244.4	263.4	261.4	259.2	257.2	255.1	253.4	252.2	250.8	249.6	248.3
110°	291.1	296.0	294.4	292.7	291.1	289.5	288.1	287.0	285.8	284.6	283.5



TEST NUMBER: P332216-940

CATALOG NUMBER: S123DIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.1	329.0	327.4	325.8	324.2	322.6	321.3	320.2	319.1	318.1	317.1
115°	378.1	376.7	375.3	374.0	372.7	371.4	370.3	369.4	368.5	367.7	366.8
117.5°	424.0	422.8	422.1	421.5	420.8	420.2	419.3	418.2	417.1	416.1	415.0
120°	454.0	452.7	452.4	451.9	451.5	451.0	450.1	448.8	447.5	446.2	444.9
122.5°	483.5	482.7	482.1	481.6	481.0	480.5	479.7	478.6	477.5	476.4	475.4
125°	525.2	525.0	524.3	523.8	523.2	522.6	521.7	520.6	519.4	518.3	517.1
127.5°	566.3	565.9	565.2	564.5	563.8	563.1	562.1	561.0	559.8	558.7	557.5
130°	591.1	590.6	590.0	589.4	588.8	588.3	587.4	586.2	585.1	583.9	582.6
132.5°	614.7	614.2	613.7	613.2	612.8	612.3	611.5	610.3	609.1	608.0	606.8
135°	650.7	650.2	649.7	649.1	648.5	647.9	647.2	646.3	645.4	644.6	643.7
137.5°	682.3	681.6	681.4	681.0	680.6	680.4	679.7	678.5	677.4	676.3	675.2
140°	702.7	702.1	701.7	701.2	700.8	700.3	699.7	698.8	697.9	697.1	696.2
142.5°	722.0	721.6	721.1	720.7	720.2	719.8	719.2	718.3	717.4	716.5	715.6
145°	748.9	748.7	748.4	748.1	747.8	747.5	746.9	745.8	744.8	743.8	742.8
147.5°	773.0	772.7	772.4	772.1	771.9	771.5	771.1	770.3	769.7	769.0	768.4
150°	787.7	787.4	787.1	786.8	786.6	786.2	785.9	785.4	785.0	784.5	784.2
152.5°	800.5	800.0	799.9	799.7	799.5	799.3	799.2	798.9	798.7	798.5	798.3
155°	818.3	817.6	817.4	817.3	817.2	817.0	817.1	817.3	817.7	818.0	818.2
157.5°	833.8	832.9	833.1	833.2	833.4	833.6	833.7	833.7	833.7	833.7	833.7
160°	842.8	841.9	842.0	842.1	842.3	842.5	842.6	842.8	842.9	843.0	843.2
162.5°	850.8	849.7	849.9	850.1	850.2	850.3	850.6	851.0	851.3	851.8	852.1
165°	861.4	860.2	860.4	860.5	860.7	860.9	861.1	861.6	862.0	862.5	862.9
167.5°	869.8	868.6	868.6	868.6	868.6	868.6	869.0	869.5	870.1	870.7	871.3
170°	874.5	873.3	873.3	873.3	873.3	873.3	873.7	874.2	874.9	875.4	876.0
172.5°	877.7	876.6	876.4	876.3	876.2	876.0	876.4	877.1	877.7	878.4	879.1
175°	881.6	880.6	880.5	880.3	880.1	880.0	880.3	881.0	881.7	882.4	883.2
177.5°	883.1	882.2	882.1	881.9	881.8	881.7	881.9	882.5	883.1	883.7	884.2
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



TEST NUMBER: P332216-940

CATALOG NUMBER: S123DIW-S1165D755U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1455.5	1458.2	1467.8	1474.5	1482.4	1486.8	1491.3	1494.7	1499.1	1500.3	1516.5
5°	1461.9	1476.0	1500.5	1518.7	1541.1	1565.6	1582.4	1590.2	1610.4	1627.3	1660.9
7.5°	1460.1	1490.0	1527.0	1565.3	1606.5	1644.7	1677.8	1717.0	1744.9	1786.8	1828.2
10°	1458.4	1498.3	1546.0	1595.1	1652.5	1705.8	1753.5	1806.7	1850.8	1909.0	1958.7
12.5°	1453.3	1501.7	1567.9	1625.9	1695.7	1769.2	1839.8	1908.2	1947.3	2044.2	2090.0
15°	1440.9	1498.3	1581.0	1669.4	1765.3	1852.3	1942.0	2013.5	2129.0	2213.9	2267.8
17.5°	1417.0	1497.5	1595.6	1702.1	1818.9	1933.4	2035.1	2143.5	2266.2	2368.7	2478.1
20°	1405.9	1494.2	1603.5	1721.2	1842.5	1972.1	2087.8	2218.0	2352.0	2452.8	2593.0
22.5°	1385.1	1485.1	1602.9	1734.1	1863.8	1997.9	2133.2	2264.6	2419.2	2558.2	2691.7
25°	1351.2	1463.3	1585.3	1731.7	1883.8	2018.4	2180.2	2354.7	2516.0	2694.7	2827.8
27.5°	1315.5	1435.3	1557.5	1693.7	1857.3	2017.0	2220.6	2417.8	2614.9	2769.2	2867.7
30°	1288.1	1404.4	1530.6	1667.9	1829.8	2019.7	2247.5	2462.6	2654.7	2787.1	2842.5
32.5°	1258.4	1376.4	1488.0	1632.1	1804.6	2018.0	2264.3	2489.0	2656.9	2745.1	2734.3
35°	1211.7	1310.5	1419.2	1557.9	1761.1	2005.7	2274.1	2491.4	2594.4	2575.5	2432.5
37.5°	1144.4	1227.5	1334.5	1486.4	1710.7	1979.8	2254.5	2417.5	2410.8	2256.7	2049.6
40°	1102.4	1173.1	1276.2	1436.0	1671.4	1963.0	2223.7	2329.5	2239.8	2024.6	1776.6
42.5°	1047.4	1112.6	1215.7	1379.9	1628.3	1928.8	2164.8	2195.5	2020.0	1772.4	1545.0
45°	962.2	1019.7	1126.2	1295.8	1563.5	1854.3	2021.2	1946.2	1709.9	1454.2	1281.1
47.5°	870.7	930.4	1032.9	1207.1	1469.9	1742.4	1821.9	1662.3	1419.9	1212.4	1053.5
50°	813.0	870.4	970.6	1146.6	1406.5	1650.4	1683.4	1477.3	1254.5	1072.3	941.9
52.5°	754.7	808.8	907.3	1083.7	1332.6	1543.9	1523.6	1313.6	1108.7	953.4	851.0
55°	667.9	719.1	813.0	978.3	1204.7	1372.2	1298.6	1098.1	928.5	808.1	730.2
57.5°	590.2	639.3	720.3	869.7	1066.5	1181.6	1088.0	919.1	784.2	691.4	633.4
60°	537.5	580.9	658.1	796.8	967.9	1055.4	963.0	813.7	700.1	625.8	574.0
62.5°	487.6	525.5	596.9	722.8	871.4	944.9	851.3	725.1	628.4	562.5	518.4
65°	412.1	446.4	509.5	607.6	729.5	778.6	698.0	595.7	520.7	471.6	442.2
67.5°	343.1	372.3	426.8	504.0	593.7	629.5	568.1	488.9	432.4	393.0	369.6
70°	297.1	322.4	365.2	431.7	513.0	540.3	482.9	417.7	376.3	344.8	323.1
72.5°	258.4	277.0	315.8	367.2	435.1	456.8	416.7	359.4	320.8	297.1	279.9
75°	196.9	212.3	237.6	278.9	325.9	338.5	308.4	272.6	246.6	229.9	216.5
77.5°	142.0	153.4	171.6	197.1	229.6	240.9	221.9	198.0	179.1	167.7	160.3
80°	107.2	116.4	131.8	152.8	172.4	178.7	167.5	149.3	136.0	129.7	123.3
82.5°	79.2	84.4	93.6	107.9	121.4	128.9	119.3	108.3	101.2	95.4	93.1
85°	39.9	42.7	47.0	52.5	61.0	63.8	60.3	57.4	53.2	49.8	49.8
87.5°	15.0	15.2	17.3	18.6	21.2	23.3	23.1	22.4	22.2	21.8	21.3
90°	2.1	3.6	5.0	6.5	8.2	10.1	11.9	13.8	15.8	16.3	16.9
92.5°	11.8	11.4	11.0	10.6	11.1	12.5	13.9	15.3	16.8	17.7	18.6
95°	34.1	28.1	22.1	16.1	13.9	15.5	17.1	18.7	20.3	21.4	22.4
97.5°	77.8	75.1	72.4	69.7	63.1	52.6	42.1	31.7	21.1	22.3	23.5
100°	113.8	116.7	119.7	122.5	112.6	89.9	67.1	44.4	21.7	22.8	24.0
102.5°	147.7	149.7	151.9	153.9	142.6	117.7	92.8	68.0	43.2	39.6	35.9
105°	197.2	198.8	200.4	202.0	196.2	183.1	170.0	156.9	143.7	117.9	92.1
107.5°	249.6	250.8	252.2	253.4	255.1	257.2	259.2	261.4	263.4	244.4	225.5
110°	284.6	285.8	287.0	288.1	289.5	291.1	292.7	294.4	296.0	291.1	286.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	318.1	319.1	320.2	321.3	322.6	324.2	325.8	327.4	329.0	329.1	329.2
115°	367.7	368.5	369.4	370.3	371.4	372.7	374.0	375.3	376.7	378.1	379.6
117.5°	416.1	417.1	418.2	419.3	420.2	420.8	421.5	422.1	422.8	424.0	425.2
120°	446.2	447.5	448.8	450.1	451.0	451.5	451.9	452.4	452.7	454.0	455.1
122.5°	476.4	477.5	478.6	479.7	480.5	481.0	481.6	482.1	482.7	483.5	484.3
125°	518.3	519.4	520.6	521.7	522.6	523.2	523.8	524.3	525.0	525.2	525.5
127.5°	558.7	559.8	561.0	562.1	563.1	563.8	564.5	565.2	565.9	566.3	566.9
130°	583.9	585.1	586.2	587.4	588.3	588.8	589.4	590.0	590.6	591.1	591.7
132.5°	608.0	609.1	610.3	611.5	612.3	612.8	613.2	613.7	614.2	614.7	615.4
135°	644.6	645.4	646.3	647.2	647.9	648.5	649.1	649.7	650.2	650.7	651.1
137.5°	676.3	677.4	678.5	679.7	680.4	680.6	681.0	681.4	681.6	682.3	683.1
140°	697.1	697.9	698.8	699.7	700.3	700.8	701.2	701.7	702.1	702.7	703.3
142.5°	716.5	717.4	718.3	719.2	719.8	720.2	720.7	721.1	721.6	722.0	722.5
145°	743.8	744.8	745.8	746.9	747.5	747.8	748.1	748.4	748.7	748.9	749.3
147.5°	769.0	769.7	770.3	771.1	771.5	771.9	772.1	772.4	772.7	773.0	773.3
150°	784.5	785.0	785.4	785.9	786.2	786.6	786.8	787.1	787.4	787.7	788.0
152.5°	798.5	798.7	798.9	799.2	799.3	799.5	799.7	799.9	800.0	800.5	801.0
155°	818.0	817.7	817.3	817.1	817.0	817.2	817.3	817.4	817.6	818.3	819.0
157.5°	833.7	833.7	833.7	833.7	833.6	833.4	833.2	833.1	832.9	833.8	834.7
160°	843.0	842.9	842.8	842.6	842.5	842.3	842.1	842.0	841.9	842.8	843.6
162.5°	851.8	851.3	851.0	850.6	850.3	850.2	850.1	849.9	849.7	850.8	851.8
165°	862.5	862.0	861.6	861.1	860.9	860.7	860.5	860.4	860.2	861.4	862.6
167.5°	870.7	870.1	869.5	869.0	868.6	868.6	868.6	868.6	868.6	869.8	870.9
170°	875.4	874.9	874.2	873.7	873.3	873.3	873.3	873.3	873.3	874.5	875.7
172.5°	878.4	877.7	877.1	876.4	876.0	876.2	876.3	876.4	876.6	877.7	878.9
175°	882.4	881.7	881.0	880.3	880.0	880.1	880.3	880.5	880.6	881.6	882.6
177.5°	883.7	883.1	882.5	881.9	881.7	881.8	881.9	882.1	882.2	883.1	884.0
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2	883.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1522.2	1522.7	1528.9	1533.4	1531.2	1533.9	1535.1
5°	1663.0	1688.3	1701.6	1711.4	1712.1	1712.8	1718.4
7.5°	1862.8	1889.8	1909.6	1939.6	1948.6	1958.7	1955.8
10°	2008.6	2048.4	2082.9	2101.0	2120.7	2149.4	2126.3
12.5°	2144.7	2215.5	2267.8	2296.2	2314.6	2320.4	2309.1
15°	2369.5	2461.9	2511.7	2510.3	2573.4	2600.8	2558.0
17.5°	2575.5	2660.9	2729.3	2764.3	2816.8	2828.5	2823.2
20°	2701.6	2794.9	2848.1	2908.4	2935.7	2960.2	2964.4
22.5°	2810.4	2894.0	2951.3	3001.4	3024.3	3035.9	3043.0
25°	2922.4	2988.3	3022.6	3040.1	3046.4	3045.0	3035.9
27.5°	2914.6	2919.7	2881.9	2844.7	2811.6	2774.1	2761.2
30°	2839.0	2780.1	2675.0	2615.5	2527.8	2458.4	2486.4
32.5°	2640.0	2522.8	2404.8	2274.6	2166.8	2136.1	2105.2
35°	2253.1	2047.1	1926.5	1786.4	1730.3	1674.3	1635.7
37.5°	1822.8	1663.5	1520.5	1428.8	1372.6	1337.1	1318.1
40°	1576.1	1432.4	1314.7	1240.5	1197.7	1157.7	1152.2
42.5°	1379.4	1245.8	1157.2	1098.1	1056.9	1040.0	1027.7
45°	1129.7	1036.5	977.0	934.9	907.6	897.1	883.1
47.5°	956.2	890.3	845.6	817.0	796.4	788.5	787.5
50°	859.2	804.5	771.6	749.1	733.1	730.2	719.1
52.5°	786.3	739.0	713.3	693.7	682.1	674.2	670.8
55°	682.6	651.0	627.9	616.7	607.6	599.9	599.9
57.5°	597.3	570.9	555.6	546.1	543.2	537.8	534.3
60°	544.6	522.1	510.2	501.8	496.1	496.9	490.5
62.5°	492.9	478.4	467.0	458.6	451.9	452.0	452.5
65°	419.8	408.6	400.2	397.3	393.2	388.3	389.7
67.5°	355.7	345.2	338.7	333.9	332.4	329.8	333.9
70°	309.8	302.0	297.1	292.9	291.5	292.2	295.8
72.5°	267.7	262.3	259.0	257.1	254.0	254.1	256.5
75°	210.3	206.1	203.2	201.2	200.5	200.5	200.5
77.5°	154.4	153.5	152.2	149.1	149.3	150.1	150.3
80°	122.0	119.8	119.1	117.7	115.7	114.2	117.7
82.5°	91.1	89.0	88.3	88.0	84.8	84.5	87.5
85°	49.0	47.0	47.6	47.0	47.0	46.3	46.3
87.5°	20.9	20.4	20.0	20.6	20.1	19.6	20.8
90°	17.5	18.1	18.5	18.8	19.1	19.4	19.7
92.5°	19.6	20.5	21.0	21.2	21.4	21.6	21.8
95°	23.4	24.4	25.0	25.0	25.0	25.0	25.0
97.5°	24.6	25.8	26.5	26.6	26.8	26.9	27.0
100°	25.1	26.3	27.0	27.1	27.3	27.4	27.6
102.5°	32.4	28.7	27.0	27.3	27.6	27.8	28.1
105°	66.3	40.5	27.7	28.0	28.3	28.6	28.9
107.5°	206.6	187.7	168.5	149.0	129.6	110.1	90.7
110°	281.5	276.7	263.9	243.0	222.1	201.3	180.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	329.3	329.4	327.2	322.8	318.4	314.0	309.6
115°	381.0	382.5	383.5	384.1	384.7	385.2	385.8
117.5°	426.3	427.5	428.1	428.3	428.4	428.5	428.6
120°	456.3	457.4	458.0	458.0	458.0	458.0	458.0
122.5°	485.1	486.0	486.4	486.5	486.6	486.8	486.9
125°	525.8	526.1	526.4	526.7	527.0	527.3	527.5
127.5°	567.3	567.8	567.8	567.6	567.2	566.9	566.7
130°	592.3	592.9	593.1	592.7	592.5	592.2	591.8
132.5°	615.9	616.5	616.6	616.2	615.8	615.4	614.9
135°	651.6	652.0	652.0	651.6	651.1	650.7	650.2
137.5°	683.8	684.5	684.7	684.4	684.0	683.8	683.5
140°	703.8	704.5	704.6	704.3	704.0	703.7	703.4
142.5°	722.9	723.4	723.4	723.0	722.6	722.2	721.8
145°	749.6	749.8	750.0	750.0	750.0	750.0	750.0
147.5°	773.6	773.9	773.6	773.0	772.3	771.7	771.0
150°	788.3	788.5	788.5	788.1	787.6	787.2	786.8
152.5°	801.6	802.1	802.0	801.4	800.7	800.0	799.3
155°	819.7	820.6	820.5	819.6	818.7	817.8	816.9
157.5°	835.5	836.4	836.3	835.2	834.0	832.9	831.8
160°	844.5	845.3	845.3	844.3	843.3	842.2	841.2
162.5°	852.7	853.7	853.7	852.8	851.9	851.0	850.2
165°	863.7	864.9	865.0	864.0	862.9	861.9	860.9
167.5°	872.2	873.3	873.3	872.2	870.9	869.8	868.6
170°	876.9	878.1	878.1	876.9	875.7	874.5	873.3
172.5°	880.0	881.2	881.1	879.9	878.6	877.3	876.0
175°	883.7	884.7	884.6	883.4	882.3	881.1	879.9
177.5°	884.9	885.9	885.7	884.6	883.4	882.3	881.1
180°	883.2	883.2	883.2	883.2	883.2	883.2	883.2

(END OF REPORT)