

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: P332975-927

Luminaire Tested: **SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332975-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

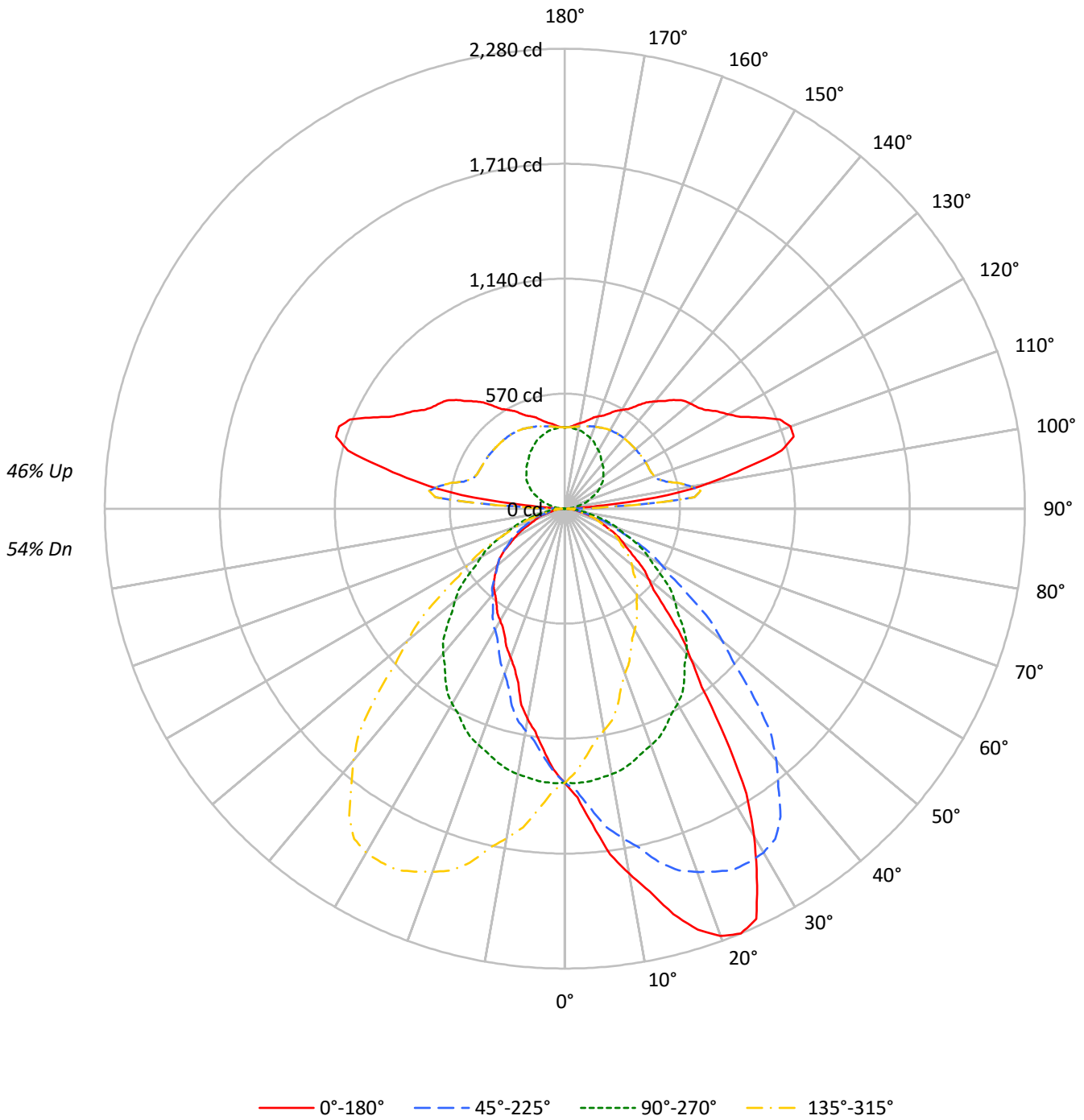
Lumens per Lamp: N/A
Luminaire Lumens: 6365.7 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.5
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	63	58	60	55	51	51	47	44	43	40	38	34
4	76	66	58	52	70	61	55	49	53	48	44	46	42	38	39	36	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	42	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	19
9	52	40	32	27	48	37	31	26	33	28	24	29	24	21	25	21	19	17
10	49	37	29	25	45	34	28	24	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10973	10973	10973	10973
5°	12729	11006	9728	11006
10°	15057	10958	8682	10958
15°	17393	10857	7460	10857
20°	19365	10717	6747	10717
25°	19991	10580	6263	10580
30°	17500	10414	5972	10414
35°	13623	10168	5797	10168
40°	10215	9886	5702	9886
45°	8066	9435	5651	9435
50°	6810	8913	5488	8913
55°	5935	8341	5195	8341
60°	5339	7745	4598	7745
65°	4707	7104	3954	7104
70°	4239	6437	3567	6437
75°	3553	5705	3041	5705
80°	3003	4863	2850	4863
85°	2538	3798	2538	3798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	2.1
10°-20°	397.3	6.2
20°-30°	621.4	9.8
30°-40°	690.7	10.9
40°-50°	612.9	9.6
50°-60°	477.6	7.5
60°-70°	312.7	4.9
70°-80°	153.8	2.4
80°-90°	40.2	0.6
90°-100°	290.8	4.6
100°-110°	605.1	9.5
110°-120°	542.0	8.5
120°-130°	455.9	7.2
130°-140°	380.1	6.0
140°-150°	290.4	4.6
150°-160°	204.1	3.2
160°-170°	120.1	1.9
170°-180°	39.1	0.6
0°-30°	1150.3	18.1
0°-40°	1841.1	28.9
0°-60°	2931.5	46.1
0°-90°	3438.1	54.0
90°-120°	1437.9	22.6
90°-150°	2564.4	40.3
90°-180°	2928.0	46.0
0°-180°	6365.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1359	1359	1359	1359	1359	
5°	1571	1358	1200	1358	1571	159
15°	2081	1299	893	1299	2081	592
25°	2244	1188	703	1188	2244	996
35°	1382	1032	588	1032	1382	866
45°	706	826	495	826	706	560
55°	422	593	369	593	422	384
65°	246	372	207	372	246	248
75°	114	183	98	183	114	125
85°	27	41	27	41	27	31
90°	17	1	17	1	17	15
95°	193	26	193	26	193	299
105°	1113	92	1113	92	1113	1100
115°	1068	163	1068	163	1068	1061
125°	852	227	852	227	852	775
135°	762	270	762	270	762	588
145°	622	311	622	311	622	395
155°	521	354	521	354	521	243
165°	455	385	455	385	455	130
175°	410	402	410	402	410	40
180°	402	402	402	402	402	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1433.7	1437.7	1433.7	1433.3	1428.9	1427.6	1425.8	1420.1	1409.6	1403.5	1404.8
5°	1570.7	1584.3	1576.7	1575.6	1563.5	1551.5	1543.8	1526.3	1507.7	1495.1	1484.6
7.5°	1729.0	1736.9	1732.1	1724.4	1704.9	1693.8	1676.1	1653.0	1619.6	1594.0	1570.7
10°	1836.8	1843.3	1841.2	1826.9	1812.7	1783.7	1767.2	1735.0	1692.7	1659.4	1628.1
12.5°	1942.8	1949.8	1930.5	1931.2	1904.2	1881.4	1855.3	1814.7	1765.9	1722.8	1683.8
15°	2081.1	2072.3	2072.3	2061.3	2031.2	1999.5	1972.6	1929.9	1868.5	1817.0	1762.8
17.5°	2189.3	2192.3	2187.8	2161.9	2138.3	2105.5	2056.3	2006.4	1949.5	1880.4	1825.0
20°	2254.1	2254.1	2249.2	2231.7	2201.0	2165.9	2112.8	2058.6	1986.3	1916.8	1854.3
22.5°	2280.4	2282.1	2276.3	2261.8	2234.3	2200.0	2154.8	2099.8	2025.3	1946.9	1869.6
25°	2244.3	2254.6	2255.7	2251.9	2243.7	2222.9	2184.0	2127.6	2060.8	1975.9	1892.6
27.5°	2060.5	2073.6	2085.1	2104.0	2129.2	2142.4	2144.1	2115.4	2057.1	1975.5	1891.7
30°	1877.3	1888.2	1923.9	1970.4	2006.5	2039.4	2067.9	2075.5	2042.7	1969.3	1881.1
32.5°	1674.0	1688.9	1724.5	1774.6	1834.8	1890.5	1954.4	1987.0	1986.2	1942.1	1860.5
35°	1382.3	1393.2	1426.1	1478.6	1550.9	1633.6	1735.0	1813.8	1867.4	1863.6	1813.8
37.5°	1114.8	1127.1	1160.3	1204.0	1274.1	1376.4	1474.5	1583.1	1682.4	1738.1	1721.4
40°	969.3	969.9	1002.2	1047.1	1112.8	1202.1	1308.8	1429.3	1539.9	1630.3	1647.8
42.5°	854.5	854.6	876.0	924.4	971.8	1055.7	1157.7	1277.3	1406.8	1511.2	1557.6
45°	706.5	711.4	728.9	758.0	795.2	866.3	947.9	1059.1	1204.3	1328.0	1405.3
47.5°	598.3	605.5	616.6	640.3	669.9	717.4	784.9	884.8	1002.8	1139.0	1248.9
50°	542.2	543.3	557.5	570.6	596.4	634.1	693.3	776.6	884.9	1015.9	1138.0
52.5°	494.0	493.8	502.3	519.0	539.9	569.3	617.1	692.8	789.0	906.3	1032.4
55°	421.7	424.5	431.0	444.1	460.0	480.9	518.6	575.6	651.2	751.4	865.9
57.5°	366.7	368.1	373.3	378.8	393.4	408.5	436.9	476.4	540.2	622.3	728.9
60°	330.7	331.3	333.0	341.2	352.7	366.9	386.1	419.5	473.2	548.2	632.6
62.5°	295.7	296.7	299.2	305.2	314.1	324.0	344.0	370.9	415.3	479.4	555.4
65°	246.4	247.0	250.8	253.0	260.2	268.9	283.7	301.7	332.4	386.1	443.6
67.5°	205.9	205.9	206.1	209.1	214.0	219.8	228.7	243.1	266.3	299.2	349.9
70°	179.6	179.6	180.7	182.4	185.1	190.0	195.0	205.9	222.9	249.7	288.6
72.5°	155.1	155.5	156.6	156.9	158.4	162.4	166.0	173.1	185.7	205.9	237.3
75°	113.9	115.6	118.3	120.5	123.2	122.7	126.5	130.9	134.8	146.8	164.9
77.5°	84.8	83.9	84.2	86.1	86.4	87.0	89.7	93.1	95.9	101.6	108.1
80°	64.6	64.6	66.2	66.8	66.2	66.8	69.6	71.2	72.3	74.5	80.5
82.5°	48.9	49.7	49.2	49.7	50.1	50.6	52.9	53.2	54.3	55.2	57.8
85°	27.4	28.0	28.4	27.4	27.4	27.4	28.4	29.0	30.1	29.5	30.7
87.5°	13.0	12.5	13.2	13.0	13.2	12.8	13.1	13.8	12.8	13.4	13.1
90°	16.6	16.6	17.4	16.6	15.8	15.8	15.1	14.3	13.5	14.3	12.7
92.5°	60.9	60.9	63.6	67.9	77.2	93.0	116.9	155.3	209.0	250.9	219.5
95°	193.0	203.3	217.5	242.0	280.7	357.4	463.4	586.0	662.7	644.5	486.4
97.5°	515.8	532.3	556.0	603.6	660.4	742.9	820.2	865.9	832.6	678.8	455.2
100°	725.2	731.5	755.3	803.5	872.3	930.8	969.6	953.8	838.3	635.8	412.8
102.5°	907.4	912.5	937.5	972.4	1014.6	1039.0	1027.8	949.4	790.8	582.1	384.4
105°	1112.7	1117.5	1128.5	1134.9	1133.3	1100.8	1022.5	885.7	704.6	518.8	359.8
107.5°	1189.0	1186.9	1179.0	1160.9	1121.9	1051.4	941.1	795.4	635.0	483.4	355.4
110°	1190.3	1183.1	1168.9	1135.7	1079.5	992.5	877.8	741.0	600.2	471.3	356.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1152.9	1141.4	1121.4	1081.2	1017.5	930.5	822.1	701.2	580.7	465.6	360.4
115°	1068.4	1062.1	1036.8	989.4	926.9	851.0	758.4	661.2	562.3	462.6	367.7
117.5°	982.9	977.9	952.4	912.5	859.2	794.8	722.1	641.5	554.1	461.8	375.5
120°	934.8	926.1	905.5	870.7	825.6	769.5	706.2	632.6	549.6	461.8	381.2
122.5°	896.8	888.1	870.7	841.0	802.9	753.7	696.1	625.1	544.5	461.2	386.9
125°	852.5	847.8	832.7	809.8	778.2	734.7	680.1	612.1	536.2	460.3	395.5
127.5°	826.6	821.8	809.2	788.8	757.0	715.7	661.3	596.3	525.0	458.5	402.2
130°	811.4	806.7	794.0	774.2	741.8	699.9	646.1	583.7	518.0	457.9	407.3
132.5°	794.3	789.6	777.5	755.3	723.5	681.5	629.1	570.4	511.7	457.2	411.7
135°	762.4	757.6	745.0	722.9	691.2	651.6	603.4	552.0	502.2	456.3	418.4
137.5°	722.9	717.2	706.7	684.8	655.3	619.6	578.9	535.4	493.9	456.1	422.3
140°	694.3	688.0	677.0	659.6	631.8	598.7	563.1	525.9	489.6	455.5	425.5
142.5°	664.0	659.6	649.7	633.6	609.1	580.4	549.8	517.1	485.8	455.5	428.0
145°	622.4	618.5	610.5	597.1	577.3	555.2	531.5	504.5	479.3	453.9	429.4
147.5°	585.5	584.2	578.1	566.6	552.0	534.6	515.6	494.2	473.4	451.1	430.2
150°	564.7	563.9	559.1	548.8	536.2	522.0	506.1	488.0	469.0	449.2	430.2
152.5°	545.7	544.9	542.0	533.7	522.9	511.2	496.6	481.0	463.9	446.0	429.0
155°	521.2	521.2	518.8	512.5	504.5	495.0	483.2	470.6	456.3	441.3	427.1
157.5°	499.6	499.6	498.2	493.5	487.5	479.9	469.9	459.3	448.5	436.4	425.0
160°	486.4	486.4	485.6	480.9	476.1	469.8	461.1	452.3	442.9	432.6	423.1
162.5°	473.7	474.4	473.6	468.8	465.3	459.6	452.8	445.4	437.8	428.8	421.2
165°	454.7	455.5	456.3	453.1	450.0	446.0	440.5	435.8	429.4	423.1	417.6
167.5°	439.7	440.4	440.5	438.5	436.9	434.5	430.1	426.4	421.8	417.4	413.8
170°	430.2	430.2	431.0	430.2	428.6	426.3	423.1	420.7	416.8	413.6	411.2
172.5°	420.7	422.0	422.8	422.0	421.0	419.3	417.4	415.7	412.3	409.8	408.7
175°	409.6	411.2	412.8	411.2	411.2	411.2	409.6	408.8	407.3	405.7	405.7
177.5°	403.1	404.4	405.7	405.0	405.7	405.0	405.0	404.4	403.8	403.1	403.1
180°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1400.4	1394.3	1391.2	1384.2	1375.9	1371.5	1367.5	1361.8	1354.4	1346.6	1340.8
5°	1471.5	1458.3	1441.9	1422.2	1404.7	1387.7	1372.9	1358.1	1341.2	1323.7	1306.2
7.5°	1544.4	1518.6	1490.6	1458.3	1427.0	1398.4	1372.1	1346.9	1318.3	1292.8	1269.6
10°	1595.3	1560.2	1521.3	1480.3	1439.2	1403.6	1368.6	1336.8	1301.7	1270.5	1244.2
12.5°	1636.5	1595.3	1548.5	1497.4	1448.0	1404.9	1364.6	1323.2	1283.3	1249.5	1214.4
15°	1704.8	1648.4	1585.4	1524.1	1460.0	1401.4	1347.2	1299.0	1253.5	1205.9	1172.5
17.5°	1751.8	1684.9	1608.3	1534.6	1458.9	1389.8	1327.2	1269.9	1217.4	1168.8	1129.0
20°	1779.8	1705.9	1621.0	1537.2	1452.3	1378.4	1311.1	1247.5	1193.3	1140.7	1099.6
22.5°	1795.6	1713.8	1621.0	1533.3	1445.3	1365.2	1291.3	1225.2	1166.2	1113.6	1068.1
25°	1800.6	1713.0	1618.3	1517.5	1421.1	1336.3	1259.6	1187.8	1122.1	1069.5	1021.4
27.5°	1793.7	1690.4	1593.4	1490.0	1390.6	1301.1	1220.6	1145.3	1079.4	1023.0	973.6
30°	1783.1	1672.5	1568.4	1461.1	1360.3	1274.4	1189.5	1117.2	1048.7	990.1	940.3
32.5°	1760.3	1650.6	1538.7	1428.7	1326.6	1238.0	1157.5	1084.7	1017.6	957.7	904.8
35°	1715.2	1604.0	1482.5	1369.7	1269.4	1177.4	1101.8	1031.7	967.7	903.6	847.7
37.5°	1655.7	1542.1	1421.3	1297.7	1197.4	1110.5	1041.2	975.3	912.8	854.3	792.4
40°	1599.7	1496.1	1371.3	1248.6	1145.7	1061.8	997.8	938.1	875.1	817.1	755.2
42.5°	1531.8	1443.6	1317.4	1194.3	1092.7	1011.9	952.2	893.8	836.5	780.3	715.7
45°	1418.4	1351.5	1233.3	1115.0	1012.6	932.6	877.9	826.4	776.0	722.3	661.6
47.5°	1288.5	1243.3	1141.1	1020.0	925.3	853.3	800.4	758.4	715.7	662.1	608.8
50°	1198.3	1169.2	1070.6	960.0	869.7	803.4	749.2	709.7	674.1	622.7	575.0
52.5°	1101.8	1086.4	1003.1	897.4	810.1	745.1	698.8	663.3	627.2	584.6	540.0
55°	955.1	963.3	892.6	801.2	719.1	664.3	622.1	592.6	561.9	525.8	491.2
57.5°	805.0	835.0	787.6	707.3	630.3	579.7	548.0	523.1	497.3	467.4	437.9
60°	715.2	740.4	713.6	642.9	575.6	528.5	498.9	479.7	454.0	426.6	404.2
62.5°	627.6	654.5	638.7	581.6	519.0	478.6	452.5	434.6	415.4	391.6	368.2
65°	517.5	535.0	527.4	488.0	443.6	409.1	385.0	371.9	354.3	336.8	316.0
67.5°	396.4	430.2	425.7	404.8	366.5	339.5	323.8	312.1	296.2	283.1	269.0
70°	325.8	357.0	356.5	339.5	318.7	293.5	282.6	272.7	258.5	245.9	234.4
72.5°	266.7	295.3	299.5	286.5	272.3	253.3	242.7	235.9	222.1	213.5	204.1
75°	186.7	207.6	213.0	213.0	206.4	196.6	187.3	182.9	173.1	165.4	159.9
77.5°	122.5	135.6	144.2	146.1	147.1	143.8	136.2	133.1	125.5	122.8	117.6
80°	86.5	95.3	105.1	108.4	111.1	110.1	106.8	104.6	97.5	94.7	92.5
82.5°	59.8	64.6	72.7	79.9	79.2	82.1	79.2	77.5	72.1	71.1	68.9
85°	31.2	31.8	32.9	37.8	40.6	41.6	42.1	41.0	39.5	39.5	35.6
87.5°	12.8	12.3	12.2	12.2	12.5	14.1	14.9	15.1	14.0	13.2	12.0
90°	11.1	11.1	6.3	6.3	5.5	4.8	2.4	0.8	2.4	4.8	5.5
92.5°	159.8	98.4	58.2	41.7	30.2	20.6	13.2	9.0	13.2	20.6	30.2
95°	297.4	167.6	98.9	65.7	46.7	36.4	28.4	26.1	28.4	36.4	46.7
97.5°	267.3	160.3	107.3	79.4	63.1	53.6	46.8	46.8	46.8	53.6	63.1
100°	251.5	162.2	115.5	90.2	75.1	65.7	60.1	60.1	60.1	65.7	75.1
102.5°	247.1	168.4	126.2	102.2	87.8	78.9	74.0	72.7	74.0	78.9	87.8
105°	249.1	183.5	145.5	122.6	108.4	98.9	94.9	92.5	94.9	98.9	108.4
107.5°	260.8	201.1	166.2	143.6	130.0	119.9	116.0	114.4	116.0	119.9	130.0
110°	269.7	214.3	179.5	158.2	143.9	134.4	130.5	128.9	130.5	134.4	143.9



TEST NUMBER: P332975-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	279.2	227.0	193.5	172.1	157.9	149.0	144.4	142.8	144.4	149.0	157.9
115°	294.2	246.8	215.1	193.8	178.7	170.8	165.2	163.0	165.2	170.8	178.7
117.5°	309.5	265.9	235.8	213.7	199.6	190.9	186.0	183.8	186.0	190.9	199.6
120°	320.3	279.2	249.1	227.0	213.5	204.9	199.3	197.7	199.3	204.9	213.5
122.5°	330.4	291.8	261.7	240.3	225.5	217.5	211.9	210.4	211.9	217.5	225.5
125°	345.6	309.2	280.7	258.6	243.6	234.9	230.1	227.0	230.1	234.9	243.6
127.5°	358.7	325.3	297.9	275.5	259.8	249.9	244.2	241.7	244.2	249.9	259.8
130°	366.9	336.1	309.2	286.3	271.2	259.4	253.1	249.9	253.1	259.4	271.2
132.5°	375.2	345.0	318.1	296.4	280.1	268.9	260.6	258.1	260.6	268.9	280.1
135°	386.0	357.4	331.4	310.8	294.2	280.7	272.8	269.7	272.8	280.7	294.2
137.5°	393.6	366.9	342.6	323.0	305.7	292.9	284.2	281.2	284.2	292.9	305.7
140°	398.5	373.3	349.6	330.6	313.9	300.6	291.8	289.5	291.8	300.6	313.9
142.5°	402.3	379.0	355.8	337.5	321.5	308.7	300.7	298.3	300.7	308.7	321.5
145°	406.5	385.2	364.6	347.2	332.2	321.1	313.1	310.8	313.1	321.1	332.2
147.5°	410.1	391.5	372.2	356.5	344.0	332.6	325.7	324.9	325.7	332.6	344.0
150°	412.0	394.7	377.2	362.2	350.4	340.9	334.5	333.7	334.5	340.9	350.4
152.5°	413.3	397.2	381.7	367.9	357.3	348.5	342.1	342.0	342.1	348.5	357.3
155°	414.4	400.9	387.5	375.7	366.9	359.0	354.3	353.5	354.3	359.0	366.9
157.5°	414.4	403.6	392.3	382.9	375.3	369.2	364.7	364.7	364.7	369.2	375.3
160°	414.4	404.9	395.5	386.7	380.4	374.9	371.7	371.7	371.7	374.9	380.4
162.5°	414.4	406.2	397.4	390.5	384.8	379.9	377.4	378.0	377.4	379.9	384.8
165°	412.8	406.5	399.3	394.7	390.7	386.7	385.2	385.2	385.2	386.7	390.7
167.5°	410.9	406.3	401.1	397.5	395.3	392.3	391.5	392.3	391.5	392.3	395.3
170°	409.6	405.7	401.7	399.3	397.8	395.5	394.7	395.5	394.7	395.5	397.8
172.5°	408.4	405.0	402.3	400.6	399.7	397.9	397.8	398.5	397.8	397.9	399.7
175°	406.5	404.1	402.5	402.5	401.7	400.9	400.9	401.7	400.9	400.9	401.7
177.5°	404.4	403.1	402.5	402.5	402.5	401.9	402.5	403.1	402.5	401.9	402.5
180°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5



TEST NUMBER: P332975-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1334.7	1330.3	1324.6	1318.0	1310.2	1303.1	1300.1	1302.7	1304.0	1300.5	1300.1
5°	1294.1	1280.4	1269.4	1253.0	1239.8	1228.9	1221.2	1218.0	1219.0	1210.3	1208.1
7.5°	1248.4	1232.2	1214.3	1194.7	1176.5	1160.5	1152.0	1147.4	1138.1	1134.2	1127.5
10°	1219.0	1197.1	1179.6	1156.6	1135.8	1116.7	1107.3	1099.6	1090.4	1086.0	1076.7
12.5°	1188.8	1163.4	1144.1	1120.2	1099.0	1075.9	1067.0	1052.8	1038.2	1029.0	1017.1
15°	1146.2	1115.6	1092.0	1063.5	1038.3	1012.0	988.5	962.2	952.4	931.5	919.5
17.5°	1096.4	1065.2	1036.1	997.9	959.0	926.4	901.3	876.1	861.0	847.7	841.6
20°	1063.5	1035.1	994.5	950.1	906.9	870.8	850.5	834.1	817.6	808.3	801.8
22.5°	1032.4	996.0	949.0	901.1	857.9	829.6	812.4	795.5	782.1	773.2	764.5
25°	980.2	932.6	882.8	828.1	798.4	773.8	755.2	741.5	733.3	721.8	717.4
27.5°	926.7	869.0	814.0	777.2	746.4	723.9	707.7	697.4	687.0	679.6	673.9
30°	885.5	827.0	777.7	742.6	711.4	692.8	679.6	667.6	659.3	653.3	649.0
32.5°	844.8	786.2	744.8	707.1	682.5	664.3	650.3	641.3	634.9	627.0	624.4
35°	785.8	733.8	697.7	663.8	638.6	622.1	611.2	601.8	596.4	594.2	592.6
37.5°	729.2	686.7	647.8	620.0	597.5	584.6	571.6	567.0	563.3	559.4	561.1
40°	693.3	653.3	618.9	589.2	571.2	557.0	549.3	543.8	540.5	540.5	540.5
42.5°	662.2	623.1	589.5	563.0	544.9	532.8	524.3	519.7	518.6	518.2	520.8
45°	613.9	577.7	543.8	521.9	506.6	494.5	489.6	485.8	485.8	488.0	488.5
47.5°	566.0	532.2	504.9	480.4	466.4	458.8	454.6	452.6	452.8	455.0	457.5
50°	536.7	503.3	476.4	454.6	441.4	434.3	430.5	429.4	430.5	430.5	434.3
52.5°	504.7	474.8	448.4	430.0	415.1	408.4	406.3	404.8	405.4	407.3	408.8
55°	457.8	431.0	405.8	388.2	377.3	373.0	368.0	368.5	367.5	368.5	368.5
57.5°	410.8	386.7	363.3	349.4	339.8	333.4	328.0	329.5	328.0	327.7	326.9
60°	380.6	354.3	335.7	323.1	312.1	306.7	301.7	302.9	301.2	300.1	297.9
62.5°	347.8	325.8	308.1	296.0	287.2	280.8	275.9	274.8	271.0	267.3	262.4
65°	300.1	282.0	266.2	254.7	246.4	241.5	237.7	234.4	226.2	217.4	213.0
67.5°	253.8	240.7	225.9	216.2	209.5	203.0	195.7	190.1	182.4	177.7	174.9
70°	223.9	211.4	198.8	189.5	182.4	176.3	168.1	164.3	158.8	156.6	153.9
72.5°	195.5	183.8	172.1	163.7	156.1	151.4	144.9	141.1	138.6	137.8	135.1
75°	152.3	142.9	134.2	126.5	120.5	117.2	114.5	111.7	110.6	105.7	103.0
77.5°	111.1	105.0	99.4	94.0	89.7	87.5	82.2	79.1	77.2	74.9	74.4
80°	86.5	82.1	76.7	73.4	67.3	65.2	63.0	62.4	61.9	61.3	60.8
82.5°	65.0	60.7	55.2	53.2	51.6	50.3	49.0	48.4	47.8	48.2	48.1
85°	32.9	30.7	30.7	30.1	29.5	29.0	28.4	28.4	28.0	28.4	28.0
87.5°	12.2	11.8	12.8	11.9	12.6	12.9	12.4	12.5	13.1	12.4	12.4
90°	6.3	6.3	11.1	11.1	12.7	14.3	13.5	14.3	15.1	15.8	15.8
92.5°	41.7	58.2	98.4	159.8	219.5	250.9	209.0	155.3	116.9	93.0	77.2
95°	65.7	98.9	167.6	297.4	486.4	644.5	662.7	586.0	463.4	357.4	280.7
97.5°	79.4	107.3	160.3	267.3	455.2	678.8	832.6	865.9	820.2	742.9	660.4
100°	90.2	115.5	162.2	251.5	412.8	635.8	838.3	953.8	969.6	930.8	872.3
102.5°	102.2	126.2	168.4	247.1	384.4	582.1	790.8	949.4	1027.8	1039.0	1014.6
105°	122.6	145.5	183.5	249.1	359.8	518.8	704.6	885.7	1022.5	1100.8	1133.3
107.5°	143.6	166.2	201.1	260.8	355.4	483.4	635.0	795.4	941.1	1051.4	1121.9
110°	158.2	179.5	214.3	269.7	356.6	471.3	600.2	741.0	877.8	992.5	1079.5



TEST NUMBER: P332975-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	172.1	193.5	227.0	279.2	360.4	465.6	580.7	701.2	822.1	930.5	1017.5
115°	193.8	215.1	246.8	294.2	367.7	462.6	562.3	661.2	758.4	851.0	926.9
117.5°	213.7	235.8	265.9	309.5	375.5	461.8	554.1	641.5	722.1	794.8	859.2
120°	227.0	249.1	279.2	320.3	381.2	461.8	549.6	632.6	706.2	769.5	825.6
122.5°	240.3	261.7	291.8	330.4	386.9	461.2	544.5	625.1	696.1	753.7	802.9
125°	258.6	280.7	309.2	345.6	395.5	460.3	536.2	612.1	680.1	734.7	778.2
127.5°	275.5	297.9	325.3	358.7	402.2	458.5	525.0	596.3	661.3	715.7	757.0
130°	286.3	309.2	336.1	366.9	407.3	457.9	518.0	583.7	646.1	699.9	741.8
132.5°	296.4	318.1	345.0	375.2	411.7	457.2	511.7	570.4	629.1	681.5	723.5
135°	310.8	331.4	357.4	386.0	418.4	456.3	502.2	552.0	603.4	651.6	691.2
137.5°	323.0	342.6	366.9	393.6	422.3	456.1	493.9	535.4	578.9	619.6	655.3
140°	330.6	349.6	373.3	398.5	425.5	455.5	489.6	525.9	563.1	598.7	631.8
142.5°	337.5	355.8	379.0	402.3	428.0	455.5	485.8	517.1	549.8	580.4	609.1
145°	347.2	364.6	385.2	406.5	429.4	453.9	479.3	504.5	531.5	555.2	577.3
147.5°	356.5	372.2	391.5	410.1	430.2	451.1	473.4	494.2	515.6	534.6	552.0
150°	362.2	377.2	394.7	412.0	430.2	449.2	469.0	488.0	506.1	522.0	536.2
152.5°	367.9	381.7	397.2	413.3	429.0	446.0	463.9	481.0	496.6	511.2	522.9
155°	375.7	387.5	400.9	414.4	427.1	441.3	456.3	470.6	483.2	495.0	504.5
157.5°	382.9	392.3	403.6	414.4	425.0	436.4	448.5	459.3	469.9	479.9	487.5
160°	386.7	395.5	404.9	414.4	423.1	432.6	442.9	452.3	461.1	469.8	476.1
162.5°	390.5	397.4	406.2	414.4	421.2	428.8	437.8	445.4	452.8	459.6	465.3
165°	394.7	399.3	406.5	412.8	417.6	423.1	429.4	435.8	440.5	446.0	450.0
167.5°	397.5	401.1	406.3	410.9	413.8	417.4	421.8	426.4	430.1	434.5	436.9
170°	399.3	401.7	405.7	409.6	411.2	413.6	416.8	420.7	423.1	426.3	428.6
172.5°	400.6	402.3	405.0	408.4	408.7	409.8	412.3	415.7	417.4	419.3	421.0
175°	402.5	402.5	404.1	406.5	405.7	405.7	407.3	408.8	409.6	411.2	411.2
177.5°	402.5	402.5	403.1	404.4	403.1	403.1	403.8	404.4	405.0	405.0	405.7
180°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5



TEST NUMBER: P332975-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1297.4	1298.3	1295.3	1294.4	1295.3	1298.3	1297.4	1300.1	1300.5	1304.0	1302.7
5°	1203.7	1202.6	1199.8	1200.4	1199.8	1202.6	1203.7	1208.1	1210.3	1219.0	1218.0
7.5°	1123.6	1119.3	1120.5	1116.1	1120.5	1119.3	1123.6	1127.5	1134.2	1138.1	1147.4
10°	1074.4	1068.4	1063.5	1059.1	1063.5	1068.4	1074.4	1076.7	1086.0	1090.4	1099.6
12.5°	1007.4	1002.3	995.6	997.0	995.6	1002.3	1007.4	1017.1	1029.0	1038.2	1052.8
15°	912.4	904.1	891.0	892.6	891.0	904.1	912.4	919.5	931.5	952.4	962.2
17.5°	831.9	831.9	825.9	827.4	825.9	831.9	831.9	841.6	847.7	861.0	876.1
20°	790.3	786.4	787.0	785.3	787.0	786.4	790.3	801.8	808.3	817.6	834.1
22.5°	761.4	756.6	752.8	749.4	752.8	756.6	761.4	764.5	773.2	782.1	795.5
25°	712.5	709.2	704.3	703.1	704.3	709.2	712.5	717.4	721.8	733.3	741.5
27.5°	669.6	668.9	666.9	664.4	666.9	668.9	669.6	673.9	679.6	687.0	697.4
30°	644.6	643.5	642.4	640.7	642.4	643.5	644.6	649.0	653.3	659.3	667.6
32.5°	622.3	621.5	620.4	620.6	620.4	621.5	622.3	624.4	627.0	634.9	641.3
35°	590.3	589.8	588.7	588.2	588.7	589.8	590.3	592.6	594.2	596.4	601.8
37.5°	560.5	562.0	561.3	561.2	561.3	562.0	560.5	561.1	559.4	563.3	567.0
40°	540.0	540.5	541.6	541.1	541.6	540.5	540.0	540.5	540.5	540.5	543.8
42.5°	522.9	523.0	524.5	522.7	524.5	523.0	522.9	520.8	518.2	518.6	519.7
45°	492.3	495.6	495.0	495.0	495.0	495.6	492.3	488.5	488.0	485.8	485.8
47.5°	458.9	461.8	462.6	462.4	462.6	461.8	458.9	457.5	455.0	452.8	452.6
50°	437.0	435.9	437.6	437.0	437.6	435.9	437.0	434.3	430.5	430.5	429.4
52.5°	410.3	410.5	410.4	409.9	410.4	410.5	410.3	408.8	407.3	405.4	404.8
55°	369.1	369.6	368.5	369.1	368.5	369.6	369.1	368.5	368.5	367.5	368.5
57.5°	324.4	321.8	322.9	321.5	322.9	321.8	324.4	326.9	327.7	328.0	329.5
60°	292.5	288.0	286.9	284.8	286.9	288.0	292.5	297.9	300.1	301.2	302.9
62.5°	256.5	253.4	249.7	251.4	249.7	253.4	256.5	262.4	267.3	271.0	274.8
65°	208.7	206.4	204.8	207.0	204.8	206.4	208.7	213.0	217.4	226.2	234.4
67.5°	172.7	171.5	171.5	170.4	171.5	171.5	172.7	174.9	177.7	182.4	190.1
70°	153.9	152.3	152.3	151.1	152.3	152.3	153.9	153.9	156.6	158.8	164.3
72.5°	134.6	132.9	133.4	132.8	133.4	132.9	134.6	135.1	137.8	138.6	141.1
75°	99.7	97.0	97.0	97.5	97.0	97.0	99.7	103.0	105.7	110.6	111.7
77.5°	74.4	73.8	74.6	73.6	74.6	73.8	74.4	74.4	74.9	77.2	79.1
80°	60.8	60.2	59.7	61.3	59.7	60.2	60.8	60.8	61.3	61.9	62.4
82.5°	47.2	47.1	47.0	49.0	47.0	47.1	47.2	48.1	48.2	47.8	48.4
85°	28.4	27.4	28.4	27.4	28.4	27.4	28.4	28.0	28.4	28.0	28.4
87.5°	13.4	13.2	12.5	13.0	12.5	13.2	13.4	12.4	12.4	13.1	12.5
90°	16.6	17.4	16.6	16.6	16.6	17.4	16.6	15.8	15.8	15.1	14.3
92.5°	67.9	63.6	60.9	60.9	60.9	63.6	67.9	77.2	93.0	116.9	155.3
95°	242.0	217.5	203.3	193.0	203.3	217.5	242.0	280.7	357.4	463.4	586.0
97.5°	603.6	556.0	532.3	515.8	532.3	556.0	603.6	660.4	742.9	820.2	865.9
100°	803.5	755.3	731.5	725.2	731.5	755.3	803.5	872.3	930.8	969.6	953.8
102.5°	972.4	937.5	912.5	907.4	912.5	937.5	972.4	1014.6	1039.0	1027.8	949.4
105°	1134.9	1128.5	1117.5	1112.7	1117.5	1128.5	1134.9	1133.3	1100.8	1022.5	885.7
107.5°	1160.9	1179.0	1186.9	1189.0	1186.9	1179.0	1160.9	1121.9	1051.4	941.1	795.4
110°	1135.7	1168.9	1183.1	1190.3	1183.1	1168.9	1135.7	1079.5	992.5	877.8	741.0



TEST NUMBER: P332975-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1081.2	1121.4	1141.4	1152.9	1141.4	1121.4	1081.2	1017.5	930.5	822.1	701.2
115°	989.4	1036.8	1062.1	1068.4	1062.1	1036.8	989.4	926.9	851.0	758.4	661.2
117.5°	912.5	952.4	977.9	982.9	977.9	952.4	912.5	859.2	794.8	722.1	641.5
120°	870.7	905.5	926.1	934.8	926.1	905.5	870.7	825.6	769.5	706.2	632.6
122.5°	841.0	870.7	888.1	896.8	888.1	870.7	841.0	802.9	753.7	696.1	625.1
125°	809.8	832.7	847.8	852.5	847.8	832.7	809.8	778.2	734.7	680.1	612.1
127.5°	788.8	809.2	821.8	826.6	821.8	809.2	788.8	757.0	715.7	661.3	596.3
130°	774.2	794.0	806.7	811.4	806.7	794.0	774.2	741.8	699.9	646.1	583.7
132.5°	755.3	777.5	789.6	794.3	789.6	777.5	755.3	723.5	681.5	629.1	570.4
135°	722.9	745.0	757.6	762.4	757.6	745.0	722.9	691.2	651.6	603.4	552.0
137.5°	684.8	706.7	717.2	722.9	717.2	706.7	684.8	655.3	619.6	578.9	535.4
140°	659.6	677.0	688.0	694.3	688.0	677.0	659.6	631.8	598.7	563.1	525.9
142.5°	633.6	649.7	659.6	664.0	659.6	649.7	633.6	609.1	580.4	549.8	517.1
145°	597.1	610.5	618.5	622.4	618.5	610.5	597.1	577.3	555.2	531.5	504.5
147.5°	566.6	578.1	584.2	585.5	584.2	578.1	566.6	552.0	534.6	515.6	494.2
150°	548.8	559.1	563.9	564.7	563.9	559.1	548.8	536.2	522.0	506.1	488.0
152.5°	533.7	542.0	544.9	545.7	544.9	542.0	533.7	522.9	511.2	496.6	481.0
155°	512.5	518.8	521.2	521.2	521.2	518.8	512.5	504.5	495.0	483.2	470.6
157.5°	493.5	498.2	499.6	499.6	499.6	498.2	493.5	487.5	479.9	469.9	459.3
160°	480.9	485.6	486.4	486.4	486.4	485.6	480.9	476.1	469.8	461.1	452.3
162.5°	468.8	473.6	474.4	473.7	474.4	473.6	468.8	465.3	459.6	452.8	445.4
165°	453.1	456.3	455.5	454.7	455.5	456.3	453.1	450.0	446.0	440.5	435.8
167.5°	438.5	440.5	440.4	439.7	440.4	440.5	438.5	436.9	434.5	430.1	426.4
170°	430.2	431.0	430.2	430.2	430.2	431.0	430.2	428.6	426.3	423.1	420.7
172.5°	422.0	422.8	422.0	420.7	422.0	422.8	422.0	421.0	419.3	417.4	415.7
175°	411.2	412.8	411.2	409.6	411.2	412.8	411.2	411.2	411.2	409.6	408.8
177.5°	405.0	405.7	404.4	403.1	404.4	405.7	405.0	405.7	405.0	405.0	404.4
180°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5



TEST NUMBER: P332975-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1300.1	1303.1	1310.2	1318.0	1324.6	1330.3	1334.7	1340.8	1346.6	1354.4	1361.8
5°	1221.2	1228.9	1239.8	1253.0	1269.4	1280.4	1294.1	1306.2	1323.7	1341.2	1358.1
7.5°	1152.0	1160.5	1176.5	1194.7	1214.3	1232.2	1248.4	1269.6	1292.8	1318.3	1346.9
10°	1107.3	1116.7	1135.8	1156.6	1179.6	1197.1	1219.0	1244.2	1270.5	1301.7	1336.8
12.5°	1067.0	1075.9	1099.0	1120.2	1144.1	1163.4	1188.8	1214.4	1249.5	1283.3	1323.2
15°	988.5	1012.0	1038.3	1063.5	1092.0	1115.6	1146.2	1172.5	1205.9	1253.5	1299.0
17.5°	901.3	926.4	959.0	997.9	1036.1	1065.2	1096.4	1129.0	1168.8	1217.4	1269.9
20°	850.5	870.8	906.9	950.1	994.5	1035.1	1063.5	1099.6	1140.7	1193.3	1247.5
22.5°	812.4	829.6	857.9	901.1	949.0	996.0	1032.4	1068.1	1113.6	1166.2	1225.2
25°	755.2	773.8	798.4	828.1	882.8	932.6	980.2	1021.4	1069.5	1122.1	1187.8
27.5°	707.7	723.9	746.4	777.2	814.0	869.0	926.7	973.6	1023.0	1079.4	1145.3
30°	679.6	692.8	711.4	742.6	777.7	827.0	885.5	940.3	990.1	1048.7	1117.2
32.5°	650.3	664.3	682.5	707.1	744.8	786.2	844.8	904.8	957.7	1017.6	1084.7
35°	611.2	622.1	638.6	663.8	697.7	733.8	785.8	847.7	903.6	967.7	1031.7
37.5°	571.6	584.6	597.5	620.0	647.8	686.7	729.2	792.4	854.3	912.8	975.3
40°	549.3	557.0	571.2	589.2	618.9	653.3	693.3	755.2	817.1	875.1	938.1
42.5°	524.3	532.8	544.9	563.0	589.5	623.1	662.2	715.7	780.3	836.5	893.8
45°	489.6	494.5	506.6	521.9	543.8	577.7	613.9	661.6	722.3	776.0	826.4
47.5°	454.6	458.8	466.4	480.4	504.9	532.2	566.0	608.8	662.1	715.7	758.4
50°	430.5	434.3	441.4	454.6	476.4	503.3	536.7	575.0	622.7	674.1	709.7
52.5°	406.3	408.4	415.1	430.0	448.4	474.8	504.7	540.0	584.6	627.2	663.3
55°	368.0	373.0	377.3	388.2	405.8	431.0	457.8	491.2	525.8	561.9	592.6
57.5°	328.0	333.4	339.8	349.4	363.3	386.7	410.8	437.9	467.4	497.3	523.1
60°	301.7	306.7	312.1	323.1	335.7	354.3	380.6	404.2	426.6	454.0	479.7
62.5°	275.9	280.8	287.2	296.0	308.1	325.8	347.8	368.2	391.6	415.4	434.6
65°	237.7	241.5	246.4	254.7	266.2	282.0	300.1	316.0	336.8	354.3	371.9
67.5°	195.7	203.0	209.5	216.2	225.9	240.7	253.8	269.0	283.1	296.2	312.1
70°	168.1	176.3	182.4	189.5	198.8	211.4	223.9	234.4	245.9	258.5	272.7
72.5°	144.9	151.4	156.1	163.7	172.1	183.8	195.5	204.1	213.5	222.1	235.9
75°	114.5	117.2	120.5	126.5	134.2	142.9	152.3	159.9	165.4	173.1	182.9
77.5°	82.2	87.5	89.7	94.0	99.4	105.0	111.1	117.6	122.8	125.5	133.1
80°	63.0	65.2	67.3	73.4	76.7	82.1	86.5	92.5	94.7	97.5	104.6
82.5°	49.0	50.3	51.6	53.2	55.2	60.7	65.0	68.9	71.1	72.1	77.5
85°	28.4	29.0	29.5	30.1	30.7	30.7	32.9	35.6	39.5	39.5	41.0
87.5°	12.4	12.9	12.6	11.9	12.8	11.8	12.2	12.0	13.2	14.0	15.1
90°	13.5	14.3	12.7	11.1	11.1	6.3	6.3	5.5	4.8	2.4	0.8
92.5°	209.0	250.9	219.5	159.8	98.4	58.2	41.7	30.2	20.6	13.2	9.0
95°	662.7	644.5	486.4	297.4	167.6	98.9	65.7	46.7	36.4	28.4	26.1
97.5°	832.6	678.8	455.2	267.3	160.3	107.3	79.4	63.1	53.6	46.8	46.8
100°	838.3	635.8	412.8	251.5	162.2	115.5	90.2	75.1	65.7	60.1	60.1
102.5°	790.8	582.1	384.4	247.1	168.4	126.2	102.2	87.8	78.9	74.0	72.7
105°	704.6	518.8	359.8	249.1	183.5	145.5	122.6	108.4	98.9	94.9	92.5
107.5°	635.0	483.4	355.4	260.8	201.1	166.2	143.6	130.0	119.9	116.0	114.4
110°	600.2	471.3	356.6	269.7	214.3	179.5	158.2	143.9	134.4	130.5	128.9



TEST NUMBER: P332975-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	580.7	465.6	360.4	279.2	227.0	193.5	172.1	157.9	149.0	144.4	142.8
115°	562.3	462.6	367.7	294.2	246.8	215.1	193.8	178.7	170.8	165.2	163.0
117.5°	554.1	461.8	375.5	309.5	265.9	235.8	213.7	199.6	190.9	186.0	183.8
120°	549.6	461.8	381.2	320.3	279.2	249.1	227.0	213.5	204.9	199.3	197.7
122.5°	544.5	461.2	386.9	330.4	291.8	261.7	240.3	225.5	217.5	211.9	210.4
125°	536.2	460.3	395.5	345.6	309.2	280.7	258.6	243.6	234.9	230.1	227.0
127.5°	525.0	458.5	402.2	358.7	325.3	297.9	275.5	259.8	249.9	244.2	241.7
130°	518.0	457.9	407.3	366.9	336.1	309.2	286.3	271.2	259.4	253.1	249.9
132.5°	511.7	457.2	411.7	375.2	345.0	318.1	296.4	280.1	268.9	260.6	258.1
135°	502.2	456.3	418.4	386.0	357.4	331.4	310.8	294.2	280.7	272.8	269.7
137.5°	493.9	456.1	422.3	393.6	366.9	342.6	323.0	305.7	292.9	284.2	281.2
140°	489.6	455.5	425.5	398.5	373.3	349.6	330.6	313.9	300.6	291.8	289.5
142.5°	485.8	455.5	428.0	402.3	379.0	355.8	337.5	321.5	308.7	300.7	298.3
145°	479.3	453.9	429.4	406.5	385.2	364.6	347.2	332.2	321.1	313.1	310.8
147.5°	473.4	451.1	430.2	410.1	391.5	372.2	356.5	344.0	332.6	325.7	324.9
150°	469.0	449.2	430.2	412.0	394.7	377.2	362.2	350.4	340.9	334.5	333.7
152.5°	463.9	446.0	429.0	413.3	397.2	381.7	367.9	357.3	348.5	342.1	342.0
155°	456.3	441.3	427.1	414.4	400.9	387.5	375.7	366.9	359.0	354.3	353.5
157.5°	448.5	436.4	425.0	414.4	403.6	392.3	382.9	375.3	369.2	364.7	364.7
160°	442.9	432.6	423.1	414.4	404.9	395.5	386.7	380.4	374.9	371.7	371.7
162.5°	437.8	428.8	421.2	414.4	406.2	397.4	390.5	384.8	379.9	377.4	378.0
165°	429.4	423.1	417.6	412.8	406.5	399.3	394.7	390.7	386.7	385.2	385.2
167.5°	421.8	417.4	413.8	410.9	406.3	401.1	397.5	395.3	392.3	391.5	392.3
170°	416.8	413.6	411.2	409.6	405.7	401.7	399.3	397.8	395.5	394.7	395.5
172.5°	412.3	409.8	408.7	408.4	405.0	402.3	400.6	399.7	397.9	397.8	398.5
175°	407.3	405.7	405.7	406.5	404.1	402.5	402.5	401.7	400.9	400.9	401.7
177.5°	403.8	403.1	403.1	404.4	403.1	402.5	402.5	402.5	401.9	402.5	403.1
180°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5



TEST NUMBER: P332975-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1367.5	1371.5	1375.9	1384.2	1391.2	1394.3	1400.4	1404.8	1403.5	1409.6	1420.1
5°	1372.9	1387.7	1404.7	1422.2	1441.9	1458.3	1471.5	1484.6	1495.1	1507.7	1526.3
7.5°	1372.1	1398.4	1427.0	1458.3	1490.6	1518.6	1544.4	1570.7	1594.0	1619.6	1653.0
10°	1368.6	1403.6	1439.2	1480.3	1521.3	1560.2	1595.3	1628.1	1659.4	1692.7	1735.0
12.5°	1364.6	1404.9	1448.0	1497.4	1548.5	1595.3	1636.5	1683.8	1722.8	1765.9	1814.7
15°	1347.2	1401.4	1460.0	1524.1	1585.4	1648.4	1704.8	1762.8	1817.0	1868.5	1929.9
17.5°	1327.2	1389.8	1458.9	1534.6	1608.3	1684.9	1751.8	1825.0	1880.4	1949.5	2006.4
20°	1311.1	1378.4	1452.3	1537.2	1621.0	1705.9	1779.8	1854.3	1916.8	1986.3	2058.6
22.5°	1291.3	1365.2	1445.3	1533.3	1621.0	1713.8	1795.6	1869.6	1946.9	2025.3	2099.8
25°	1259.6	1336.3	1421.1	1517.5	1618.3	1713.0	1800.6	1892.6	1975.9	2060.8	2127.6
27.5°	1220.6	1301.1	1390.6	1490.0	1593.4	1690.4	1793.7	1891.7	1975.5	2057.1	2115.4
30°	1189.5	1274.4	1360.3	1461.1	1568.4	1672.5	1783.1	1881.1	1969.3	2042.7	2075.5
32.5°	1157.5	1238.0	1326.6	1428.7	1538.7	1650.6	1760.3	1860.5	1942.1	1986.2	1987.0
35°	1101.8	1177.4	1269.4	1369.7	1482.5	1604.0	1715.2	1813.8	1863.6	1867.4	1813.8
37.5°	1041.2	1110.5	1197.4	1297.7	1421.3	1542.1	1655.7	1721.4	1738.1	1682.4	1583.1
40°	997.8	1061.8	1145.7	1248.6	1371.3	1496.1	1599.7	1647.8	1630.3	1539.9	1429.3
42.5°	952.2	1011.9	1092.7	1194.3	1317.4	1443.6	1531.8	1557.6	1511.2	1406.8	1277.3
45°	877.9	932.6	1012.6	1115.0	1233.3	1351.5	1418.4	1405.3	1328.0	1204.3	1059.1
47.5°	800.4	853.3	925.3	1020.0	1141.1	1243.3	1288.5	1248.9	1139.0	1002.8	884.8
50°	749.2	803.4	869.7	960.0	1070.6	1169.2	1198.3	1138.0	1015.9	884.9	776.6
52.5°	698.8	745.1	810.1	897.4	1003.1	1086.4	1101.8	1032.4	906.3	789.0	692.8
55°	622.1	664.3	719.1	801.2	892.6	963.3	955.1	865.9	751.4	651.2	575.6
57.5°	548.0	579.7	630.3	707.3	787.6	835.0	805.0	728.9	622.3	540.2	476.4
60°	498.9	528.5	575.6	642.9	713.6	740.4	715.2	632.6	548.2	473.2	419.5
62.5°	452.5	478.6	519.0	581.6	638.7	654.5	627.6	555.4	479.4	415.3	370.9
65°	385.0	409.1	443.6	488.0	527.4	535.0	517.5	443.6	386.1	332.4	301.7
67.5°	323.8	339.5	366.5	404.8	425.7	430.2	396.4	349.9	299.2	266.3	243.1
70°	282.6	293.5	318.7	339.5	356.5	357.0	325.8	288.6	249.7	222.9	205.9
72.5°	242.7	253.3	272.3	286.5	299.5	295.3	266.7	237.3	205.9	185.7	173.1
75°	187.3	196.6	206.4	213.0	213.0	207.6	186.7	164.9	146.8	134.8	130.9
77.5°	136.2	143.8	147.1	146.1	144.2	135.6	122.5	108.1	101.6	95.9	93.1
80°	106.8	110.1	111.1	108.4	105.1	95.3	86.5	80.5	74.5	72.3	71.2
82.5°	79.2	82.1	79.2	79.9	72.7	64.6	59.8	57.8	55.2	54.3	53.2
85°	42.1	41.6	40.6	37.8	32.9	31.8	31.2	30.7	29.5	30.1	29.0
87.5°	14.9	14.1	12.5	12.2	12.2	12.3	12.8	13.1	13.4	12.8	13.8
90°	2.4	4.8	5.5	6.3	6.3	11.1	11.1	12.7	14.3	13.5	14.3
92.5°	13.2	20.6	30.2	41.7	58.2	98.4	159.8	219.5	250.9	209.0	155.3
95°	28.4	36.4	46.7	65.7	98.9	167.6	297.4	486.4	644.5	662.7	586.0
97.5°	46.8	53.6	63.1	79.4	107.3	160.3	267.3	455.2	678.8	832.6	865.9
100°	60.1	65.7	75.1	90.2	115.5	162.2	251.5	412.8	635.8	838.3	953.8
102.5°	74.0	78.9	87.8	102.2	126.2	168.4	247.1	384.4	582.1	790.8	949.4
105°	94.9	98.9	108.4	122.6	145.5	183.5	249.1	359.8	518.8	704.6	885.7
107.5°	116.0	119.9	130.0	143.6	166.2	201.1	260.8	355.4	483.4	635.0	795.4
110°	130.5	134.4	143.9	158.2	179.5	214.3	269.7	356.6	471.3	600.2	741.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.4	149.0	157.9	172.1	193.5	227.0	279.2	360.4	465.6	580.7	701.2
115°	165.2	170.8	178.7	193.8	215.1	246.8	294.2	367.7	462.6	562.3	661.2
117.5°	186.0	190.9	199.6	213.7	235.8	265.9	309.5	375.5	461.8	554.1	641.5
120°	199.3	204.9	213.5	227.0	249.1	279.2	320.3	381.2	461.8	549.6	632.6
122.5°	211.9	217.5	225.5	240.3	261.7	291.8	330.4	386.9	461.2	544.5	625.1
125°	230.1	234.9	243.6	258.6	280.7	309.2	345.6	395.5	460.3	536.2	612.1
127.5°	244.2	249.9	259.8	275.5	297.9	325.3	358.7	402.2	458.5	525.0	596.3
130°	253.1	259.4	271.2	286.3	309.2	336.1	366.9	407.3	457.9	518.0	583.7
132.5°	260.6	268.9	280.1	296.4	318.1	345.0	375.2	411.7	457.2	511.7	570.4
135°	272.8	280.7	294.2	310.8	331.4	357.4	386.0	418.4	456.3	502.2	552.0
137.5°	284.2	292.9	305.7	323.0	342.6	366.9	393.6	422.3	456.1	493.9	535.4
140°	291.8	300.6	313.9	330.6	349.6	373.3	398.5	425.5	455.5	489.6	525.9
142.5°	300.7	308.7	321.5	337.5	355.8	379.0	402.3	428.0	455.5	485.8	517.1
145°	313.1	321.1	332.2	347.2	364.6	385.2	406.5	429.4	453.9	479.3	504.5
147.5°	325.7	332.6	344.0	356.5	372.2	391.5	410.1	430.2	451.1	473.4	494.2
150°	334.5	340.9	350.4	362.2	377.2	394.7	412.0	430.2	449.2	469.0	488.0
152.5°	342.1	348.5	357.3	367.9	381.7	397.2	413.3	429.0	446.0	463.9	481.0
155°	354.3	359.0	366.9	375.7	387.5	400.9	414.4	427.1	441.3	456.3	470.6
157.5°	364.7	369.2	375.3	382.9	392.3	403.6	414.4	425.0	436.4	448.5	459.3
160°	371.7	374.9	380.4	386.7	395.5	404.9	414.4	423.1	432.6	442.9	452.3
162.5°	377.4	379.9	384.8	390.5	397.4	406.2	414.4	421.2	428.8	437.8	445.4
165°	385.2	386.7	390.7	394.7	399.3	406.5	412.8	417.6	423.1	429.4	435.8
167.5°	391.5	392.3	395.3	397.5	401.1	406.3	410.9	413.8	417.4	421.8	426.4
170°	394.7	395.5	397.8	399.3	401.7	405.7	409.6	411.2	413.6	416.8	420.7
172.5°	397.8	397.9	399.7	400.6	402.3	405.0	408.4	408.7	409.8	412.3	415.7
175°	400.9	400.9	401.7	402.5	402.5	404.1	406.5	405.7	405.7	407.3	408.8
177.5°	402.5	401.9	402.5	402.5	402.5	403.1	404.4	403.1	403.1	403.8	404.4
180°	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5	402.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1425.8	1427.6	1428.9	1433.3	1433.7	1437.7	1433.7
5°	1543.8	1551.5	1563.5	1575.6	1576.7	1584.3	1570.7
7.5°	1676.1	1693.8	1704.9	1724.4	1732.1	1736.9	1729.0
10°	1767.2	1783.7	1812.7	1826.9	1841.2	1843.3	1836.8
12.5°	1855.3	1881.4	1904.2	1931.2	1930.5	1949.8	1942.8
15°	1972.6	1999.5	2031.2	2061.3	2072.3	2072.3	2081.1
17.5°	2056.3	2105.5	2138.3	2161.9	2187.8	2192.3	2189.3
20°	2112.8	2165.9	2201.0	2231.7	2249.2	2254.1	2254.1
22.5°	2154.8	2200.0	2234.3	2261.8	2276.3	2282.1	2280.4
25°	2184.0	2222.9	2243.7	2251.9	2255.7	2254.6	2244.3
27.5°	2144.1	2142.4	2129.2	2104.0	2085.1	2073.6	2060.5
30°	2067.9	2039.4	2006.5	1970.4	1923.9	1888.2	1877.3
32.5°	1954.4	1890.5	1834.8	1774.6	1724.5	1688.9	1674.0
35°	1735.0	1633.6	1550.9	1478.6	1426.1	1393.2	1382.3
37.5°	1474.5	1376.4	1274.1	1204.0	1160.3	1127.1	1114.8
40°	1308.8	1202.1	1112.8	1047.1	1002.2	969.9	969.3
42.5°	1157.7	1055.7	971.8	924.4	876.0	854.6	854.5
45°	947.9	866.3	795.2	758.0	728.9	711.4	706.5
47.5°	784.9	717.4	669.9	640.3	616.6	605.5	598.3
50°	693.3	634.1	596.4	570.6	557.5	543.3	542.2
52.5°	617.1	569.3	539.9	519.0	502.3	493.8	494.0
55°	518.6	480.9	460.0	444.1	431.0	424.5	421.7
57.5°	436.9	408.5	393.4	378.8	373.3	368.1	366.7
60°	386.1	366.9	352.7	341.2	333.0	331.3	330.7
62.5°	344.0	324.0	314.1	305.2	299.2	296.7	295.7
65°	283.7	268.9	260.2	253.0	250.8	247.0	246.4
67.5°	228.7	219.8	214.0	209.1	206.1	205.9	205.9
70°	195.0	190.0	185.1	182.4	180.7	179.6	179.6
72.5°	166.0	162.4	158.4	156.9	156.6	155.5	155.1
75°	126.5	122.7	123.2	120.5	118.3	115.6	113.9
77.5°	89.7	87.0	86.4	86.1	84.2	83.9	84.8
80°	69.6	66.8	66.2	66.8	66.2	64.6	64.6
82.5°	52.9	50.6	50.1	49.7	49.2	49.7	48.9
85°	28.4	27.4	27.4	27.4	28.4	28.0	27.4
87.5°	13.1	12.8	13.2	13.0	13.2	12.5	13.0
90°	15.1	15.8	15.8	16.6	17.4	16.6	16.6
92.5°	116.9	93.0	77.2	67.9	63.6	60.9	60.9
95°	463.4	357.4	280.7	242.0	217.5	203.3	193.0
97.5°	820.2	742.9	660.4	603.6	556.0	532.3	515.8
100°	969.6	930.8	872.3	803.5	755.3	731.5	725.2
102.5°	1027.8	1039.0	1014.6	972.4	937.5	912.5	907.4
105°	1022.5	1100.8	1133.3	1134.9	1128.5	1117.5	1112.7
107.5°	941.1	1051.4	1121.9	1160.9	1179.0	1186.9	1189.0
110°	877.8	992.5	1079.5	1135.7	1168.9	1183.1	1190.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	822.1	930.5	1017.5	1081.2	1121.4	1141.4	1152.9
115°	758.4	851.0	926.9	989.4	1036.8	1062.1	1068.4
117.5°	722.1	794.8	859.2	912.5	952.4	977.9	982.9
120°	706.2	769.5	825.6	870.7	905.5	926.1	934.8
122.5°	696.1	753.7	802.9	841.0	870.7	888.1	896.8
125°	680.1	734.7	778.2	809.8	832.7	847.8	852.5
127.5°	661.3	715.7	757.0	788.8	809.2	821.8	826.6
130°	646.1	699.9	741.8	774.2	794.0	806.7	811.4
132.5°	629.1	681.5	723.5	755.3	777.5	789.6	794.3
135°	603.4	651.6	691.2	722.9	745.0	757.6	762.4
137.5°	578.9	619.6	655.3	684.8	706.7	717.2	722.9
140°	563.1	598.7	631.8	659.6	677.0	688.0	694.3
142.5°	549.8	580.4	609.1	633.6	649.7	659.6	664.0
145°	531.5	555.2	577.3	597.1	610.5	618.5	622.4
147.5°	515.6	534.6	552.0	566.6	578.1	584.2	585.5
150°	506.1	522.0	536.2	548.8	559.1	563.9	564.7
152.5°	496.6	511.2	522.9	533.7	542.0	544.9	545.7
155°	483.2	495.0	504.5	512.5	518.8	521.2	521.2
157.5°	469.9	479.9	487.5	493.5	498.2	499.6	499.6
160°	461.1	469.8	476.1	480.9	485.6	486.4	486.4
162.5°	452.8	459.6	465.3	468.8	473.6	474.4	473.7
165°	440.5	446.0	450.0	453.1	456.3	455.5	454.7
167.5°	430.1	434.5	436.9	438.5	440.5	440.4	439.7
170°	423.1	426.3	428.6	430.2	431.0	430.2	430.2
172.5°	417.4	419.3	421.0	422.0	422.8	422.0	420.7
175°	409.6	411.2	411.2	411.2	412.8	411.2	409.6
177.5°	405.0	405.0	405.7	405.0	405.7	404.4	403.1
180°	402.5	402.5	402.5	402.5	402.5	402.5	402.5

(END OF REPORT)