

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: P332968-930

Luminaire Tested: **SA4XXRDIP-C1020D810U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332968-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1020D810U930-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5825.1 lumens  
Efficiency: N/A  
Efficacy: 107.1 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: Semi-Direct

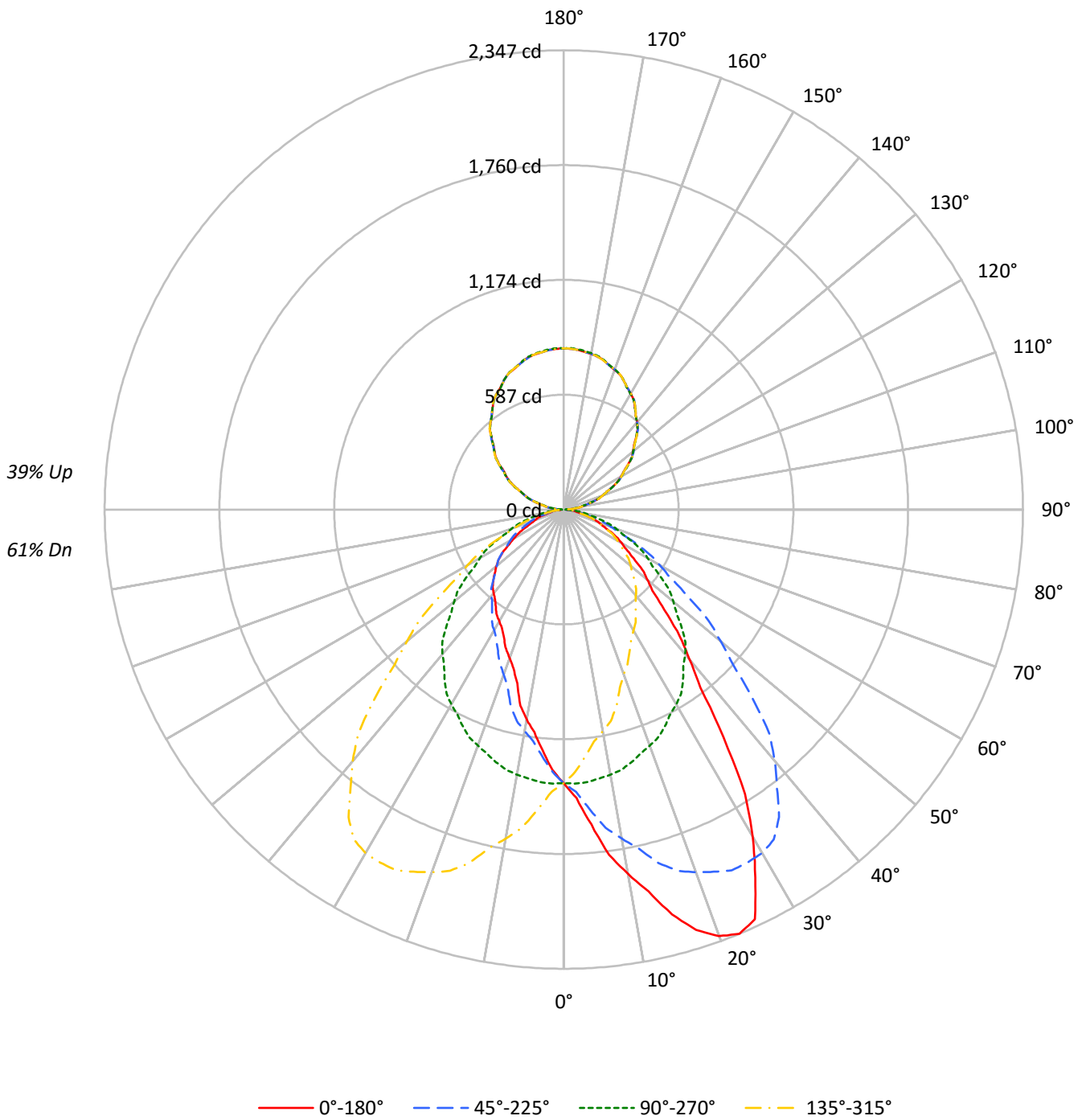
Input Watts (W): 54.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	93	89	94	91	87	84	79	77	75	69	67	65	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	84	75	68	62	79	71	64	59	62	57	53	54	51	48	47	44	42	38
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	43	39	37	33
5	71	60	52	46	67	57	49	44	50	44	40	44	40	36	39	35	32	29
6	66	54	46	40	62	51	44	38	45	39	35	40	35	32	35	31	29	26
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	32	28	26	23
8	57	45	37	32	53	42	35	30	38	32	28	34	29	25	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	19
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	25	22	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11293	11293	11293	11293
5°	13100	11327	10011	11327
10°	15497	11278	8936	11278
15°	17901	11173	7678	11173
20°	19930	11030	6943	11030
25°	20574	10889	6446	10889
30°	18011	10718	6147	10718
35°	14020	10464	5966	10464
40°	10513	10175	5868	10175
45°	8301	9710	5817	9710
50°	7008	9173	5649	9173
55°	6108	8583	5346	8583
60°	5496	7971	4732	7971
65°	4844	7310	4069	7310
70°	4362	6626	3673	6626
75°	3656	5873	3132	5873
80°	3092	5002	2934	5002
85°	2612	3909	2612	3909



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	2.3
10°-20°	408.9	7.0
20°-30°	639.5	11.0
30°-40°	710.9	12.2
40°-50°	630.7	10.8
50°-60°	491.5	8.4
60°-70°	321.8	5.5
70°-80°	158.2	2.7
80°-90°	41.5	0.7
90°-100°	54.4	0.9
100°-110°	161.0	2.8
110°-120°	273.3	4.7
120°-130°	360.4	6.2
130°-140°	404.7	6.9
140°-150°	397.7	6.8
150°-160°	334.5	5.7
160°-170°	222.6	3.8
170°-180°	77.9	1.3
0°-30°	1183.9	20.3
0°-40°	1894.8	32.5
0°-60°	3017.0	51.8
0°-90°	3538.6	60.7
90°-120°	488.7	8.4
90°-150°	1651.5	28.4
90°-180°	2287.0	39.3
0°-180°	5825.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1399	1399	1399	1399	1399	
5°	1616	1398	1235	1398	1616	164
15°	2142	1337	919	1337	2142	609
25°	2310	1222	724	1222	2310	1025
35°	1423	1062	605	1062	1423	892
45°	727	850	510	850	727	576
55°	434	610	380	610	434	395
65°	254	383	213	383	254	255
75°	117	188	100	188	117	129
85°	28	42	28	42	28	32
90°	19	2	19	2	19	11
95°	50	38	50	38	50	52
105°	156	148	156	148	156	164
115°	275	278	275	278	275	272
125°	402	405	402	405	402	358
135°	523	522	523	522	523	404
145°	635	634	635	634	635	397
155°	726	727	726	727	726	334
165°	789	791	789	791	789	222
175°	819	823	819	823	819	78
180°	824	824	824	824	824	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1475.5	1479.6	1475.5	1475.1	1470.6	1469.3	1467.5	1461.6	1450.7	1444.5	1445.8
5°	1616.5	1630.5	1622.7	1621.5	1609.2	1596.8	1588.9	1570.8	1551.7	1538.7	1528.0
7.5°	1779.5	1787.5	1782.7	1774.7	1754.7	1743.3	1725.0	1701.2	1666.9	1640.5	1616.6
10°	1890.4	1897.1	1894.9	1880.2	1865.6	1835.7	1818.8	1785.6	1742.1	1707.8	1675.6
12.5°	1999.5	2006.7	1986.9	1987.5	1959.8	1936.3	1909.4	1867.6	1817.5	1773.1	1732.9
15°	2141.8	2132.7	2132.7	2121.5	2090.4	2057.8	2030.2	1986.2	1923.0	1870.1	1814.3
17.5°	2253.2	2256.3	2251.7	2225.0	2200.7	2166.9	2116.3	2065.0	2006.4	1935.3	1878.2
20°	2319.9	2319.9	2314.8	2296.8	2265.2	2229.1	2174.5	2118.6	2044.3	1972.7	1908.5
22.5°	2346.9	2348.7	2342.8	2327.8	2299.5	2264.2	2217.7	2161.0	2084.4	2003.8	1924.2
25°	2309.7	2320.4	2321.6	2317.6	2309.2	2287.7	2247.7	2189.6	2120.9	2033.5	1947.8
27.5°	2120.6	2134.1	2145.9	2165.4	2191.4	2204.9	2206.7	2177.2	2117.2	2033.1	1946.9
30°	1932.1	1943.3	1980.0	2027.9	2065.1	2098.9	2128.3	2136.1	2102.3	2026.8	1936.0
32.5°	1722.9	1738.2	1774.8	1826.4	1888.3	1945.6	2011.4	2045.0	2044.1	1998.8	1914.8
35°	1422.6	1433.9	1467.7	1521.8	1596.2	1681.3	1785.6	1866.7	1921.9	1918.0	1866.7
37.5°	1147.3	1160.0	1194.2	1239.1	1311.2	1416.6	1517.5	1629.3	1731.5	1788.8	1771.6
40°	997.6	998.2	1031.4	1077.7	1145.3	1237.1	1347.0	1471.0	1584.9	1677.9	1695.9
42.5°	879.5	879.5	901.6	951.4	1000.1	1086.5	1191.5	1314.6	1447.8	1555.3	1603.0
45°	727.1	732.1	750.2	780.1	818.4	891.6	975.6	1090.1	1239.4	1366.8	1446.3
47.5°	615.7	623.1	634.6	659.0	689.5	738.3	807.8	910.6	1032.1	1172.2	1285.3
50°	558.0	559.1	573.7	587.3	613.8	652.6	713.5	799.2	910.8	1045.5	1171.2
52.5°	508.4	508.2	517.0	534.1	555.6	586.0	635.1	713.1	812.0	932.8	1062.5
55°	434.0	436.8	443.6	457.1	473.4	494.9	533.8	592.4	670.2	773.3	891.1
57.5°	377.4	378.9	384.2	389.9	404.9	420.4	449.6	490.3	556.0	640.4	750.2
60°	340.4	341.0	342.7	351.1	363.0	377.6	397.4	431.7	487.0	564.2	651.0
62.5°	304.4	305.3	307.9	314.1	323.3	333.5	354.1	381.7	427.5	493.4	571.6
65°	253.6	254.2	258.1	260.4	267.7	276.7	292.0	310.5	342.1	397.4	456.6
67.5°	211.9	211.9	212.1	215.2	220.3	226.2	235.4	250.2	274.0	307.9	360.1
70°	184.8	184.8	186.0	187.7	190.5	195.6	200.6	211.9	229.4	257.0	297.0
72.5°	159.6	160.0	161.2	161.5	163.0	167.1	170.9	178.1	191.1	211.9	244.3
75°	117.2	119.0	121.7	124.0	126.8	126.3	130.2	134.7	138.7	151.1	169.7
77.5°	87.2	86.3	86.7	88.6	88.9	89.5	92.3	95.8	98.7	104.6	111.3
80°	66.5	66.5	68.2	68.7	68.2	68.7	71.6	73.3	74.4	76.6	82.8
82.5°	50.3	51.2	50.6	51.2	51.5	52.1	54.5	54.8	55.9	56.8	59.4
85°	28.2	28.8	29.3	28.2	28.2	28.2	29.3	29.8	31.0	30.4	31.6
87.5°	13.8	13.2	13.6	13.5	13.9	13.4	13.7	14.4	13.4	13.6	13.4
90°	19.2	18.8	18.6	18.3	18.0	17.4	16.6	15.7	14.8	14.0	12.9
92.5°	28.3	28.1	28.0	27.8	27.6	27.3	26.7	26.3	25.8	25.3	24.5
95°	50.4	50.4	50.4	50.4	50.4	50.1	49.7	49.3	48.8	48.4	47.5
97.5°	78.9	78.9	78.9	78.9	78.9	78.7	78.1	77.6	77.1	76.6	75.4
100°	98.8	98.8	98.8	98.8	98.8	98.7	98.4	98.1	97.8	97.5	96.2
102.5°	121.2	121.2	121.0	120.9	120.7	120.5	120.1	119.8	119.4	119.0	117.8
105°	155.6	155.1	154.7	154.3	153.8	153.4	153.0	152.5	152.1	151.7	151.2
107.5°	188.9	189.0	189.0	189.0	189.1	188.8	188.4	188.1	187.7	187.3	187.2
110°	212.9	212.5	212.1	211.7	211.2	211.1	211.4	211.7	212.0	212.2	212.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	237.3	237.3	237.2	237.1	237.0	237.0	237.1	237.1	237.2	237.3	237.5
115°	275.3	275.5	275.7	275.8	275.9	276.1	276.2	276.3	276.5	276.6	276.9
117.5°	311.5	311.9	312.1	312.4	312.7	313.1	313.6	314.1	314.5	315.0	315.2
120°	339.1	338.8	338.5	338.3	337.9	338.2	338.8	339.6	340.3	341.0	341.4
122.5°	362.1	362.6	363.1	363.5	364.1	364.6	365.1	365.5	366.0	366.5	366.7
125°	401.5	401.9	402.1	402.4	402.7	403.0	403.2	403.6	403.8	404.1	404.2
127.5°	438.1	438.4	438.6	438.8	439.0	439.3	439.6	439.9	440.2	440.4	440.7
130°	462.1	462.7	463.3	463.8	464.4	464.8	465.0	465.4	465.6	465.9	465.9
132.5°	487.6	487.8	488.0	488.3	488.5	488.8	489.0	489.3	489.6	489.9	490.0
135°	522.7	523.1	523.5	523.9	524.3	524.7	525.0	525.3	525.5	525.9	525.9
137.5°	559.5	559.4	559.3	559.2	559.1	559.3	559.7	560.0	560.4	560.8	560.5
140°	582.0	582.0	582.2	582.4	582.5	582.6	582.8	582.9	583.1	583.2	583.2
142.5°	604.4	604.4	604.5	604.5	604.5	604.5	604.5	604.5	604.6	604.6	604.7
145°	634.9	635.3	635.7	636.1	636.5	636.8	637.0	637.1	637.2	637.4	637.2
147.5°	665.7	665.9	665.9	666.1	666.3	666.3	666.5	666.6	666.8	666.8	666.9
150°	684.5	684.7	684.9	685.0	685.1	685.2	685.2	685.2	685.2	685.2	685.2
152.5°	701.9	702.3	702.6	703.0	703.4	703.4	703.0	702.7	702.4	702.1	701.9
155°	726.0	726.5	727.1	727.7	728.2	728.2	727.7	727.1	726.5	726.0	726.1
157.5°	747.5	748.0	748.5	749.0	749.4	749.5	749.1	748.6	748.2	747.8	747.8
160°	759.8	760.5	761.2	761.9	762.6	762.7	762.3	761.9	761.5	761.1	761.2
162.5°	772.5	773.2	774.0	774.6	775.3	775.3	774.5	773.8	773.1	772.3	772.4
165°	789.1	789.6	790.2	790.8	791.3	791.2	790.4	789.5	788.6	787.8	788.1
167.5°	801.0	801.8	802.7	803.6	804.5	804.5	803.6	802.7	801.9	801.0	801.0
170°	807.6	808.5	809.6	810.6	811.5	811.6	810.7	809.9	809.0	808.2	808.0
172.5°	813.2	814.2	815.1	816.2	817.2	817.2	816.2	815.2	814.2	813.3	813.3
175°	819.0	820.0	821.0	822.0	823.0	823.0	822.0	821.0	820.0	819.0	819.2
177.5°	822.1	823.0	823.9	824.8	825.7	825.8	825.0	824.2	823.4	822.6	822.6
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1441.3	1435.0	1431.8	1424.6	1416.0	1411.5	1407.5	1401.6	1393.9	1385.8	1380.0
5°	1514.4	1500.9	1484.0	1463.7	1445.7	1428.2	1413.0	1397.7	1380.3	1362.3	1344.3
7.5°	1589.5	1562.9	1534.1	1500.9	1468.6	1439.2	1412.1	1386.2	1356.8	1330.6	1306.7
10°	1641.8	1605.7	1565.7	1523.5	1481.2	1444.5	1408.5	1375.8	1339.7	1307.6	1280.5
12.5°	1684.2	1641.8	1593.7	1541.1	1490.2	1445.9	1404.4	1361.8	1320.8	1286.0	1249.9
15°	1754.5	1696.5	1631.7	1568.6	1502.6	1442.3	1386.5	1336.9	1290.1	1241.1	1206.7
17.5°	1802.9	1734.1	1655.2	1579.4	1501.5	1430.4	1366.0	1306.9	1253.0	1202.9	1162.0
20°	1831.7	1755.7	1668.3	1582.1	1494.7	1418.6	1349.3	1283.9	1228.2	1174.0	1131.7
22.5°	1848.0	1763.8	1668.3	1578.0	1487.5	1405.1	1329.0	1260.9	1200.2	1146.1	1099.3
25°	1853.2	1763.0	1665.5	1561.8	1462.6	1375.2	1296.3	1222.5	1154.9	1100.7	1051.2
27.5°	1846.0	1739.8	1639.9	1533.5	1431.2	1339.0	1256.2	1178.7	1110.9	1052.9	1002.0
30°	1835.2	1721.3	1614.2	1503.7	1400.0	1311.6	1224.2	1149.8	1079.3	1019.0	967.8
32.5°	1811.7	1698.8	1583.6	1470.4	1365.3	1274.1	1191.2	1116.4	1047.3	985.7	931.2
35°	1765.3	1650.8	1525.8	1409.7	1306.4	1211.8	1134.0	1061.8	995.9	930.0	872.5
37.5°	1704.1	1587.1	1462.7	1335.5	1232.3	1142.9	1071.5	1003.8	939.5	879.2	815.5
40°	1646.3	1539.8	1411.3	1285.1	1179.1	1092.8	1027.0	965.5	900.7	840.9	777.2
42.5°	1576.5	1485.7	1355.8	1229.1	1124.5	1041.5	980.0	919.9	861.0	803.1	736.6
45°	1459.8	1391.0	1269.3	1147.5	1042.1	959.9	903.5	850.5	798.7	743.4	680.9
47.5°	1326.1	1279.5	1174.4	1049.8	952.3	878.2	823.8	780.5	736.6	681.4	626.6
50°	1233.2	1203.3	1101.9	988.1	895.0	826.8	771.0	730.4	693.8	640.8	591.8
52.5°	1134.0	1118.1	1032.4	923.6	833.7	766.9	719.2	682.7	645.6	601.6	555.7
55°	982.9	991.4	918.7	824.6	740.0	683.7	640.3	609.8	578.3	541.1	505.6
57.5°	828.5	859.4	810.6	728.0	648.7	596.6	563.9	538.3	511.8	481.0	450.7
60°	736.1	762.0	734.4	661.7	592.4	543.9	513.5	493.7	467.2	439.0	416.0
62.5°	645.9	673.6	657.3	598.6	534.2	492.5	465.7	447.3	427.5	403.0	379.0
65°	532.6	550.7	542.7	502.2	456.6	421.0	396.2	382.7	364.7	346.7	325.2
67.5°	408.0	442.8	438.1	416.6	377.2	349.4	333.2	321.2	304.8	291.4	276.9
70°	335.3	367.5	366.9	349.4	328.0	302.1	290.8	280.7	266.0	253.1	241.2
72.5°	274.5	303.9	308.3	294.9	280.2	260.7	249.8	242.8	228.6	219.7	210.1
75°	192.2	213.6	219.2	219.2	212.5	202.4	192.7	188.3	178.1	170.2	164.6
77.5°	126.0	139.6	148.4	150.3	151.4	148.0	140.1	137.0	129.1	126.4	121.0
80°	89.0	98.1	108.2	111.6	114.4	113.3	109.9	107.6	100.4	97.5	95.2
82.5°	61.6	66.5	74.8	82.3	81.5	84.5	81.5	79.7	74.2	73.1	70.9
85°	32.1	32.7	33.8	38.9	41.7	42.8	43.4	42.2	40.6	40.6	36.6
87.5°	13.2	12.5	13.2	12.9	13.0	14.5	15.6	15.7	14.7	13.6	12.6
90°	11.7	10.6	9.5	8.2	6.6	5.1	3.5	1.9	3.5	5.1	6.6
92.5°	23.6	22.8	22.1	20.8	19.0	17.2	15.4	13.6	15.4	17.2	19.0
95°	46.5	45.5	44.5	43.4	42.1	40.8	39.5	38.2	39.5	40.8	42.1
97.5°	74.3	73.1	72.0	70.8	69.9	68.8	67.8	66.8	67.8	68.8	69.9
100°	95.0	93.7	92.5	91.5	90.9	90.3	89.8	89.3	89.8	90.3	90.9
102.5°	116.6	115.4	114.3	113.6	113.4	113.2	112.9	112.7	112.9	113.2	113.4
105°	150.6	150.0	149.4	149.1	149.0	148.8	148.6	148.5	148.6	148.8	149.0
107.5°	187.1	187.0	186.9	186.8	186.6	186.5	186.3	186.1	186.3	186.5	186.6
110°	212.5	212.7	212.8	212.7	212.5	212.1	211.9	211.7	211.9	212.1	212.5





TEST NUMBER: P332968-930

CATALOG NUMBER: SA4XXRDIP-C1020D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	237.7	238.0	238.2	238.4	238.3	238.2	238.1	238.1	238.1	238.2	238.3
115°	277.2	277.4	277.8	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9
117.5°	315.4	315.6	315.8	315.8	315.7	315.6	315.5	315.4	315.5	315.6	315.7
120°	341.9	342.3	342.7	342.7	342.1	341.5	341.0	340.4	341.0	341.5	342.1
122.5°	366.9	367.1	367.3	367.3	367.0	366.8	366.6	366.4	366.6	366.8	367.0
125°	404.4	404.6	404.6	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7
127.5°	440.9	441.1	441.3	441.2	440.8	440.4	439.9	439.5	439.9	440.4	440.8
130°	465.9	465.9	465.9	465.7	465.3	464.9	464.5	464.0	464.5	464.9	465.3
132.5°	490.2	490.2	490.3	490.2	489.9	489.7	489.3	489.0	489.3	489.7	489.9
135°	525.9	525.9	525.9	525.5	524.6	523.7	522.9	522.0	522.9	523.7	524.6
137.5°	560.4	560.1	559.9	559.5	559.1	558.7	558.4	558.0	558.4	558.7	559.1
140°	583.2	583.2	583.2	583.1	582.8	582.5	582.2	582.0	582.2	582.5	582.8
142.5°	604.9	605.0	605.1	605.0	604.7	604.5	604.1	603.9	604.1	604.5	604.7
145°	637.1	637.0	636.8	636.5	635.9	635.4	634.8	634.2	634.8	635.4	635.9
147.5°	667.1	667.2	667.3	667.0	666.3	665.6	665.0	664.3	665.0	665.6	666.3
150°	685.2	685.2	685.2	684.9	684.4	683.8	683.2	682.7	683.2	683.8	684.4
152.5°	701.8	701.6	701.6	701.3	701.0	700.7	700.3	700.0	700.3	700.7	701.0
155°	726.3	726.4	726.5	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6
157.5°	747.9	747.9	747.9	748.0	748.3	748.5	748.8	749.1	748.8	748.5	748.3
160°	761.3	761.5	761.6	761.7	761.9	762.1	762.1	762.3	762.1	762.1	761.9
162.5°	772.6	772.7	772.8	773.1	773.5	773.8	774.2	774.5	774.2	773.8	773.5
165°	788.4	788.6	789.0	789.3	789.7	790.2	790.6	791.0	790.6	790.2	789.7
167.5°	801.0	801.0	801.0	801.3	801.8	802.4	803.0	803.6	803.0	802.4	801.8
170°	808.0	807.8	807.6	808.0	808.6	809.3	810.1	810.7	810.1	809.3	808.6
172.5°	813.3	813.3	813.2	813.5	814.1	814.6	815.3	815.9	815.3	814.6	814.1
175°	819.3	819.5	819.6	820.0	820.8	821.4	822.1	822.9	822.1	821.4	820.8
177.5°	822.6	822.6	822.6	822.9	823.5	824.0	824.6	825.2	824.6	824.0	823.5
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332968-930

CATALOG NUMBER: SA4XXRDIP-C1020D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1373.6	1369.1	1363.3	1356.5	1348.4	1341.2	1338.1	1340.8	1342.1	1338.5	1338.1
5°	1331.9	1317.8	1306.4	1289.6	1276.0	1264.8	1256.9	1253.5	1254.6	1245.6	1243.3
7.5°	1284.8	1268.1	1249.7	1229.6	1210.9	1194.3	1185.6	1180.9	1171.3	1167.3	1160.4
10°	1254.6	1232.1	1214.1	1190.3	1169.0	1149.2	1139.6	1131.7	1122.2	1117.7	1108.1
12.5°	1223.5	1197.3	1177.5	1152.9	1131.1	1107.3	1098.1	1083.5	1068.5	1059.1	1046.8
15°	1179.7	1148.1	1123.9	1094.5	1068.6	1041.5	1017.3	990.3	980.2	958.7	946.3
17.5°	1128.4	1096.3	1066.3	1027.0	987.0	953.4	927.6	901.6	886.1	872.5	866.2
20°	1094.5	1065.3	1023.5	977.9	933.4	896.2	875.3	858.4	841.5	831.9	825.2
22.5°	1062.5	1025.1	976.6	927.4	882.9	853.8	836.1	818.7	804.9	795.8	786.8
25°	1008.9	959.9	908.6	852.2	821.7	796.4	777.2	763.1	754.7	742.8	738.3
27.5°	953.7	894.4	837.8	799.9	768.2	745.0	728.3	717.7	707.0	699.4	693.6
30°	911.3	851.1	800.4	764.3	732.1	713.0	699.4	687.1	678.6	672.4	667.9
32.5°	869.4	809.1	766.5	727.7	702.4	683.7	669.3	660.0	653.4	645.3	642.6
35°	808.8	755.2	718.0	683.1	657.2	640.3	629.0	619.4	613.8	611.6	609.8
37.5°	750.5	706.7	666.7	638.1	614.9	601.6	588.3	583.6	579.8	575.7	577.5
40°	713.5	672.4	636.9	606.4	587.8	573.2	565.3	559.7	556.3	556.3	556.3
42.5°	681.5	641.3	606.7	579.4	560.8	548.4	539.6	534.8	533.8	533.3	536.0
45°	631.9	594.6	559.7	537.1	521.4	508.9	503.9	499.9	499.9	502.2	502.7
47.5°	582.5	547.7	519.7	494.4	480.0	472.2	467.8	465.8	466.0	468.2	470.8
50°	552.4	518.0	490.3	467.8	454.3	446.9	443.0	441.9	443.0	443.0	446.9
52.5°	519.4	488.7	461.5	442.5	427.2	420.4	418.2	416.6	417.3	419.1	420.8
55°	471.2	443.6	417.7	399.6	388.3	383.8	378.8	379.3	378.2	379.3	379.3
57.5°	422.8	398.0	373.9	359.6	349.7	343.2	337.6	339.2	337.5	337.3	336.4
60°	391.8	364.7	345.5	332.6	321.2	315.6	310.5	311.7	310.0	308.8	306.6
62.5°	357.9	335.3	317.1	304.6	295.5	289.0	284.0	282.8	278.9	275.1	270.1
65°	308.8	290.2	273.9	262.1	253.6	248.6	244.6	241.2	232.8	223.7	219.2
67.5°	261.2	247.8	232.5	222.5	215.6	209.0	201.5	195.7	187.8	182.9	180.0
70°	230.5	217.5	204.6	195.0	187.7	181.5	173.0	169.1	163.5	161.2	158.4
72.5°	201.2	189.1	177.1	168.4	160.6	155.8	149.1	145.2	142.7	141.8	139.0
75°	156.7	147.1	138.1	130.2	124.0	120.6	117.8	115.0	113.8	108.8	106.0
77.5°	114.3	108.0	102.3	96.7	92.3	90.1	84.6	81.4	79.5	77.1	76.6
80°	89.0	84.5	78.9	75.5	69.3	67.1	64.8	64.2	63.7	63.1	62.5
82.5°	66.9	62.5	56.8	54.8	53.1	51.8	50.4	49.8	49.2	49.6	49.5
85°	33.8	31.6	31.6	31.0	30.4	29.8	29.3	29.3	28.8	29.3	28.8
87.5°	12.9	12.7	13.0	12.3	13.0	13.2	12.9	13.0	13.7	13.0	13.0
90°	8.2	9.5	10.6	11.7	12.9	14.0	14.8	15.7	16.6	17.4	18.0
92.5°	20.8	22.1	22.8	23.6	24.5	25.3	25.8	26.3	26.7	27.3	27.6
95°	43.4	44.5	45.5	46.5	47.5	48.4	48.8	49.3	49.7	50.1	50.4
97.5°	70.8	72.0	73.1	74.3	75.4	76.6	77.1	77.6	78.1	78.7	78.9
100°	91.5	92.5	93.7	95.0	96.2	97.5	97.8	98.1	98.4	98.7	98.8
102.5°	113.6	114.3	115.4	116.6	117.8	119.0	119.4	119.8	120.1	120.5	120.7
105°	149.1	149.4	150.0	150.6	151.2	151.7	152.1	152.5	153.0	153.4	153.8
107.5°	186.8	186.9	187.0	187.1	187.2	187.3	187.7	188.1	188.4	188.8	189.1
110°	212.7	212.8	212.7	212.5	212.4	212.2	212.0	211.7	211.4	211.1	211.2



TEST NUMBER: P332968-930

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	238.4	238.2	238.0	237.7	237.5	237.3	237.2	237.1	237.1	237.0	237.0
115°	277.9	277.8	277.4	277.2	276.9	276.6	276.5	276.3	276.2	276.1	275.9
117.5°	315.8	315.8	315.6	315.4	315.2	315.0	314.5	314.1	313.6	313.1	312.7
120°	342.7	342.7	342.3	341.9	341.4	341.0	340.3	339.6	338.8	338.2	337.9
122.5°	367.3	367.3	367.1	366.9	366.7	366.5	366.0	365.5	365.1	364.6	364.1
125°	404.7	404.6	404.6	404.4	404.2	404.1	403.8	403.6	403.2	403.0	402.7
127.5°	441.2	441.3	441.1	440.9	440.7	440.4	440.2	439.9	439.6	439.3	439.0
130°	465.7	465.9	465.9	465.9	465.9	465.9	465.6	465.4	465.0	464.8	464.4
132.5°	490.2	490.3	490.2	490.2	490.0	489.9	489.6	489.3	489.0	488.8	488.5
135°	525.5	525.9	525.9	525.9	525.9	525.9	525.5	525.3	525.0	524.7	524.3
137.5°	559.5	559.9	560.1	560.4	560.5	560.8	560.4	560.0	559.7	559.3	559.1
140°	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.9	582.8	582.6	582.5
142.5°	605.0	605.1	605.0	604.9	604.7	604.6	604.6	604.5	604.5	604.5	604.5
145°	636.5	636.8	637.0	637.1	637.2	637.4	637.2	637.1	637.0	636.8	636.5
147.5°	667.0	667.3	667.2	667.1	666.9	666.8	666.8	666.6	666.5	666.3	666.3
150°	684.9	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.1
152.5°	701.3	701.6	701.6	701.8	701.9	702.1	702.4	702.7	703.0	703.4	703.4
155°	726.6	726.5	726.4	726.3	726.1	726.0	726.5	727.1	727.7	728.2	728.2
157.5°	748.0	747.9	747.9	747.9	747.8	747.8	748.2	748.6	749.1	749.5	749.4
160°	761.7	761.6	761.5	761.3	761.2	761.1	761.5	761.9	762.3	762.7	762.6
162.5°	773.1	772.8	772.7	772.6	772.4	772.3	773.1	773.8	774.5	775.3	775.3
165°	789.3	789.0	788.6	788.4	788.1	787.8	788.6	789.5	790.4	791.2	791.3
167.5°	801.3	801.0	801.0	801.0	801.0	801.0	801.9	802.7	803.6	804.5	804.5
170°	808.0	807.6	807.8	808.0	808.0	808.2	809.0	809.9	810.7	811.6	811.5
172.5°	813.5	813.2	813.3	813.3	813.3	813.3	814.2	815.2	816.2	817.2	817.2
175°	820.0	819.6	819.5	819.3	819.2	819.0	820.0	821.0	822.0	823.0	823.0
177.5°	822.9	822.6	822.6	822.6	822.6	822.6	823.4	824.2	825.0	825.8	825.7
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332968-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1335.3	1336.2	1333.1	1332.2	1333.1	1336.2	1335.3	1338.1	1338.5	1342.1	1340.8
5°	1238.8	1237.7	1234.9	1235.4	1234.9	1237.7	1238.8	1243.3	1245.6	1254.6	1253.5
7.5°	1156.3	1151.9	1153.2	1148.7	1153.2	1151.9	1156.3	1160.4	1167.3	1171.3	1180.9
10°	1105.8	1099.6	1094.5	1090.1	1094.5	1099.6	1105.8	1108.1	1117.7	1122.2	1131.7
12.5°	1036.8	1031.5	1024.7	1026.1	1024.7	1031.5	1036.8	1046.8	1059.1	1068.5	1083.5
15°	939.0	930.5	917.0	918.7	917.0	930.5	939.0	946.3	958.7	980.2	990.3
17.5°	856.1	856.2	850.0	851.5	850.0	856.2	856.1	866.2	872.5	886.1	901.6
20°	813.3	809.3	809.9	808.2	809.9	809.3	813.3	825.2	831.9	841.5	858.4
22.5°	783.6	778.7	774.8	771.3	774.8	778.7	783.6	786.8	795.8	804.9	818.7
25°	733.3	729.9	724.8	723.7	724.8	729.9	733.3	738.3	742.8	754.7	763.1
27.5°	689.1	688.4	686.4	683.8	686.4	688.4	689.1	693.6	699.4	707.0	717.7
30°	663.4	662.3	661.1	659.4	661.1	662.3	663.4	667.9	672.4	678.6	687.1
32.5°	640.4	639.7	638.5	638.7	638.5	639.7	640.4	642.6	645.3	653.4	660.0
35°	607.6	607.0	605.9	605.4	605.9	607.0	607.6	609.8	611.6	613.8	619.4
37.5°	576.9	578.4	577.7	577.6	577.7	578.4	576.9	577.5	575.7	579.8	583.6
40°	555.7	556.3	557.4	556.8	557.4	556.3	555.7	556.3	556.3	556.3	559.7
42.5°	538.2	538.3	539.8	537.9	539.8	538.3	538.2	536.0	533.3	533.8	534.8
45°	506.7	510.1	509.5	509.5	509.5	510.1	506.7	502.7	502.2	499.9	499.9
47.5°	472.3	475.2	476.1	475.9	476.1	475.2	472.3	470.8	468.2	466.0	465.8
50°	449.8	448.7	450.4	449.8	450.4	448.7	449.8	446.9	443.0	443.0	441.9
52.5°	422.2	422.5	422.4	421.8	422.4	422.5	422.2	420.8	419.1	417.3	416.6
55°	379.8	380.4	379.3	379.8	379.3	380.4	379.8	379.3	379.3	378.2	379.3
57.5°	333.9	331.2	332.3	330.9	332.3	331.2	333.9	336.4	337.3	337.5	339.2
60°	301.0	296.4	295.3	293.1	295.3	296.4	301.0	306.6	308.8	310.0	311.7
62.5°	264.0	260.8	257.0	258.8	257.0	260.8	264.0	270.1	275.1	278.9	282.8
65°	214.7	212.5	210.8	213.0	210.8	212.5	214.7	219.2	223.7	232.8	241.2
67.5°	177.7	176.5	176.5	175.4	176.5	176.5	177.7	180.0	182.9	187.8	195.7
70°	158.4	156.7	156.7	155.6	156.7	156.7	158.4	158.4	161.2	163.5	169.1
72.5°	138.5	136.8	137.3	136.6	137.3	136.8	138.5	139.0	141.8	142.7	145.2
75°	102.6	99.8	99.8	100.4	99.8	99.8	102.6	106.0	108.8	113.8	115.0
77.5°	76.6	76.0	76.8	75.7	76.8	76.0	76.6	76.6	77.1	79.5	81.4
80°	62.5	62.0	61.5	63.1	61.5	62.0	62.5	62.5	63.1	63.7	64.2
82.5°	48.6	48.5	48.3	50.5	48.3	48.5	48.6	49.5	49.6	49.2	49.8
85°	29.3	28.2	29.3	28.2	29.3	28.2	29.3	28.8	29.3	28.8	29.3
87.5°	14.0	13.6	13.2	13.8	13.2	13.6	14.0	13.0	13.0	13.7	13.0
90°	18.3	18.6	18.8	19.2	18.8	18.6	18.3	18.0	17.4	16.6	15.7
92.5°	27.8	28.0	28.1	28.3	28.1	28.0	27.8	27.6	27.3	26.7	26.3
95°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.1	49.7	49.3
97.5°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.7	78.1	77.6
100°	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.7	98.4	98.1
102.5°	120.9	121.0	121.2	121.2	121.2	121.0	120.9	120.7	120.5	120.1	119.8
105°	154.3	154.7	155.1	155.6	155.1	154.7	154.3	153.8	153.4	153.0	152.5
107.5°	189.0	189.0	189.0	188.9	189.0	189.0	189.0	189.1	188.8	188.4	188.1
110°	211.7	212.1	212.5	212.9	212.5	212.1	211.7	211.2	211.1	211.4	211.7



TEST NUMBER: P332968-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	237.1	237.2	237.3	237.3	237.3	237.2	237.1	237.0	237.0	237.1	237.1
115°	275.8	275.7	275.5	275.3	275.5	275.7	275.8	275.9	276.1	276.2	276.3
117.5°	312.4	312.1	311.9	311.5	311.9	312.1	312.4	312.7	313.1	313.6	314.1
120°	338.3	338.5	338.8	339.1	338.8	338.5	338.3	337.9	338.2	338.8	339.6
122.5°	363.5	363.1	362.6	362.1	362.6	363.1	363.5	364.1	364.6	365.1	365.5
125°	402.4	402.1	401.9	401.5	401.9	402.1	402.4	402.7	403.0	403.2	403.6
127.5°	438.8	438.6	438.4	438.1	438.4	438.6	438.8	439.0	439.3	439.6	439.9
130°	463.8	463.3	462.7	462.1	462.7	463.3	463.8	464.4	464.8	465.0	465.4
132.5°	488.3	488.0	487.8	487.6	487.8	488.0	488.3	488.5	488.8	489.0	489.3
135°	523.9	523.5	523.1	522.7	523.1	523.5	523.9	524.3	524.7	525.0	525.3
137.5°	559.2	559.3	559.4	559.5	559.4	559.3	559.2	559.1	559.3	559.7	560.0
140°	582.4	582.2	582.0	582.0	582.0	582.2	582.4	582.5	582.6	582.8	582.9
142.5°	604.5	604.5	604.4	604.4	604.4	604.5	604.5	604.5	604.5	604.5	604.5
145°	636.1	635.7	635.3	634.9	635.3	635.7	636.1	636.5	636.8	637.0	637.1
147.5°	666.1	665.9	665.9	665.7	665.9	665.9	666.1	666.3	666.3	666.5	666.6
150°	685.0	684.9	684.7	684.5	684.7	684.9	685.0	685.1	685.2	685.2	685.2
152.5°	703.0	702.6	702.3	701.9	702.3	702.6	703.0	703.4	703.4	703.0	702.7
155°	727.7	727.1	726.5	726.0	726.5	727.1	727.7	728.2	728.2	727.7	727.1
157.5°	749.0	748.5	748.0	747.5	748.0	748.5	749.0	749.4	749.5	749.1	748.6
160°	761.9	761.2	760.5	759.8	760.5	761.2	761.9	762.6	762.7	762.3	761.9
162.5°	774.6	774.0	773.2	772.5	773.2	774.0	774.6	775.3	775.3	774.5	773.8
165°	790.8	790.2	789.6	789.1	789.6	790.2	790.8	791.3	791.2	790.4	789.5
167.5°	803.6	802.7	801.8	801.0	801.8	802.7	803.6	804.5	804.5	803.6	802.7
170°	810.6	809.6	808.5	807.6	808.5	809.6	810.6	811.5	811.6	810.7	809.9
172.5°	816.2	815.1	814.2	813.2	814.2	815.1	816.2	817.2	817.2	816.2	815.2
175°	822.0	821.0	820.0	819.0	820.0	821.0	822.0	823.0	823.0	822.0	821.0
177.5°	824.8	823.9	823.0	822.1	823.0	823.9	824.8	825.7	825.8	825.0	824.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332968-930

CATALOG NUMBER: SA4XXRDIP-C1020D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1338.1	1341.2	1348.4	1356.5	1363.3	1369.1	1373.6	1380.0	1385.8	1393.9	1401.6
5°	1256.9	1264.8	1276.0	1289.6	1306.4	1317.8	1331.9	1344.3	1362.3	1380.3	1397.7
7.5°	1185.6	1194.3	1210.9	1229.6	1249.7	1268.1	1284.8	1306.7	1330.6	1356.8	1386.2
10°	1139.6	1149.2	1169.0	1190.3	1214.1	1232.1	1254.6	1280.5	1307.6	1339.7	1375.8
12.5°	1098.1	1107.3	1131.1	1152.9	1177.5	1197.3	1223.5	1249.9	1286.0	1320.8	1361.8
15°	1017.3	1041.5	1068.6	1094.5	1123.9	1148.1	1179.7	1206.7	1241.1	1290.1	1336.9
17.5°	927.6	953.4	987.0	1027.0	1066.3	1096.3	1128.4	1162.0	1202.9	1253.0	1306.9
20°	875.3	896.2	933.4	977.9	1023.5	1065.3	1094.5	1131.7	1174.0	1228.2	1283.9
22.5°	836.1	853.8	882.9	927.4	976.6	1025.1	1062.5	1099.3	1146.1	1200.2	1260.9
25°	777.2	796.4	821.7	852.2	908.6	959.9	1008.9	1051.2	1100.7	1154.9	1222.5
27.5°	728.3	745.0	768.2	799.9	837.8	894.4	953.7	1002.0	1052.9	1110.9	1178.7
30°	699.4	713.0	732.1	764.3	800.4	851.1	911.3	967.8	1019.0	1079.3	1149.8
32.5°	669.3	683.7	702.4	727.7	766.5	809.1	869.4	931.2	985.7	1047.3	1116.4
35°	629.0	640.3	657.2	683.1	718.0	755.2	808.8	872.5	930.0	995.9	1061.8
37.5°	588.3	601.6	614.9	638.1	666.7	706.7	750.5	815.5	879.2	939.5	1003.8
40°	565.3	573.2	587.8	606.4	636.9	672.4	713.5	777.2	840.9	900.7	965.5
42.5°	539.6	548.4	560.8	579.4	606.7	641.3	681.5	736.6	803.1	861.0	919.9
45°	503.9	508.9	521.4	537.1	559.7	594.6	631.9	680.9	743.4	798.7	850.5
47.5°	467.8	472.2	480.0	494.4	519.7	547.7	582.5	626.6	681.4	736.6	780.5
50°	443.0	446.9	454.3	467.8	490.3	518.0	552.4	591.8	640.8	693.8	730.4
52.5°	418.2	420.4	427.2	442.5	461.5	488.7	519.4	555.7	601.6	645.6	682.7
55°	378.8	383.8	388.3	399.6	417.7	443.6	471.2	505.6	541.1	578.3	609.8
57.5°	337.6	343.2	349.7	359.6	373.9	398.0	422.8	450.7	481.0	511.8	538.3
60°	310.5	315.6	321.2	332.6	345.5	364.7	391.8	416.0	439.0	467.2	493.7
62.5°	284.0	289.0	295.5	304.6	317.1	335.3	357.9	379.0	403.0	427.5	447.3
65°	244.6	248.6	253.6	262.1	273.9	290.2	308.8	325.2	346.7	364.7	382.7
67.5°	201.5	209.0	215.6	222.5	232.5	247.8	261.2	276.9	291.4	304.8	321.2
70°	173.0	181.5	187.7	195.0	204.6	217.5	230.5	241.2	253.1	266.0	280.7
72.5°	149.1	155.8	160.6	168.4	177.1	189.1	201.2	210.1	219.7	228.6	242.8
75°	117.8	120.6	124.0	130.2	138.1	147.1	156.7	164.6	170.2	178.1	188.3
77.5°	84.6	90.1	92.3	96.7	102.3	108.0	114.3	121.0	126.4	129.1	137.0
80°	64.8	67.1	69.3	75.5	78.9	84.5	89.0	95.2	97.5	100.4	107.6
82.5°	50.4	51.8	53.1	54.8	56.8	62.5	66.9	70.9	73.1	74.2	79.7
85°	29.3	29.8	30.4	31.0	31.6	31.6	33.8	36.6	40.6	40.6	42.2
87.5°	12.9	13.2	13.0	12.3	13.0	12.7	12.9	12.6	13.6	14.7	15.7
90°	14.8	14.0	12.9	11.7	10.6	9.5	8.2	6.6	5.1	3.5	1.9
92.5°	25.8	25.3	24.5	23.6	22.8	22.1	20.8	19.0	17.2	15.4	13.6
95°	48.8	48.4	47.5	46.5	45.5	44.5	43.4	42.1	40.8	39.5	38.2
97.5°	77.1	76.6	75.4	74.3	73.1	72.0	70.8	69.9	68.8	67.8	66.8
100°	97.8	97.5	96.2	95.0	93.7	92.5	91.5	90.9	90.3	89.8	89.3
102.5°	119.4	119.0	117.8	116.6	115.4	114.3	113.6	113.4	113.2	112.9	112.7
105°	152.1	151.7	151.2	150.6	150.0	149.4	149.1	149.0	148.8	148.6	148.5
107.5°	187.7	187.3	187.2	187.1	187.0	186.9	186.8	186.6	186.5	186.3	186.1
110°	212.0	212.2	212.4	212.5	212.7	212.8	212.7	212.5	212.1	211.9	211.7



TEST NUMBER: P332968-930

CATALOG NUMBER: SA4XXRDIP-C1020D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.2	237.3	237.5	237.7	238.0	238.2	238.4	238.3	238.2	238.1	238.1
115°	276.5	276.6	276.9	277.2	277.4	277.8	277.9	277.9	277.9	277.9	277.9
117.5°	314.5	315.0	315.2	315.4	315.6	315.8	315.8	315.7	315.6	315.5	315.4
120°	340.3	341.0	341.4	341.9	342.3	342.7	342.7	342.1	341.5	341.0	340.4
122.5°	366.0	366.5	366.7	366.9	367.1	367.3	367.3	367.0	366.8	366.6	366.4
125°	403.8	404.1	404.2	404.4	404.6	404.6	404.7	404.7	404.7	404.7	404.7
127.5°	440.2	440.4	440.7	440.9	441.1	441.3	441.2	440.8	440.4	439.9	439.5
130°	465.6	465.9	465.9	465.9	465.9	465.9	465.7	465.3	464.9	464.5	464.0
132.5°	489.6	489.9	490.0	490.2	490.2	490.3	490.2	489.9	489.7	489.3	489.0
135°	525.5	525.9	525.9	525.9	525.9	525.9	525.5	524.6	523.7	522.9	522.0
137.5°	560.4	560.8	560.5	560.4	560.1	559.9	559.5	559.1	558.7	558.4	558.0
140°	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.8	582.5	582.2	582.0
142.5°	604.6	604.6	604.7	604.9	605.0	605.1	605.0	604.7	604.5	604.1	603.9
145°	637.2	637.4	637.2	637.1	637.0	636.8	636.5	635.9	635.4	634.8	634.2
147.5°	666.8	666.8	666.9	667.1	667.2	667.3	667.0	666.3	665.6	665.0	664.3
150°	685.2	685.2	685.2	685.2	685.2	685.2	684.9	684.4	683.8	683.2	682.7
152.5°	702.4	702.1	701.9	701.8	701.6	701.6	701.3	701.0	700.7	700.3	700.0
155°	726.5	726.0	726.1	726.3	726.4	726.5	726.6	726.6	726.6	726.6	726.6
157.5°	748.2	747.8	747.8	747.9	747.9	747.9	748.0	748.3	748.5	748.8	749.1
160°	761.5	761.1	761.2	761.3	761.5	761.6	761.7	761.9	762.1	762.1	762.3
162.5°	773.1	772.3	772.4	772.6	772.7	772.8	773.1	773.5	773.8	774.2	774.5
165°	788.6	787.8	788.1	788.4	788.6	789.0	789.3	789.7	790.2	790.6	791.0
167.5°	801.9	801.0	801.0	801.0	801.0	801.0	801.3	801.8	802.4	803.0	803.6
170°	809.0	808.2	808.0	808.0	807.8	807.6	808.0	808.6	809.3	810.1	810.7
172.5°	814.2	813.3	813.3	813.3	813.3	813.2	813.5	814.1	814.6	815.3	815.9
175°	820.0	819.0	819.2	819.3	819.5	819.6	820.0	820.8	821.4	822.1	822.9
177.5°	823.4	822.6	822.6	822.6	822.6	822.6	822.9	823.5	824.0	824.6	825.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332968-930

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1407.5	1411.5	1416.0	1424.6	1431.8	1435.0	1441.3	1445.8	1444.5	1450.7	1461.6
5°	1413.0	1428.2	1445.7	1463.7	1484.0	1500.9	1514.4	1528.0	1538.7	1551.7	1570.8
7.5°	1412.1	1439.2	1468.6	1500.9	1534.1	1562.9	1589.5	1616.6	1640.5	1666.9	1701.2
10°	1408.5	1444.5	1481.2	1523.5	1565.7	1605.7	1641.8	1675.6	1707.8	1742.1	1785.6
12.5°	1404.4	1445.9	1490.2	1541.1	1593.7	1641.8	1684.2	1732.9	1773.1	1817.5	1867.6
15°	1386.5	1442.3	1502.6	1568.6	1631.7	1696.5	1754.5	1814.3	1870.1	1923.0	1986.2
17.5°	1366.0	1430.4	1501.5	1579.4	1655.2	1734.1	1802.9	1878.2	1935.3	2006.4	2065.0
20°	1349.3	1418.6	1494.7	1582.1	1668.3	1755.7	1831.7	1908.5	1972.7	2044.3	2118.6
22.5°	1329.0	1405.1	1487.5	1578.0	1668.3	1763.8	1848.0	1924.2	2003.8	2084.4	2161.0
25°	1296.3	1375.2	1462.6	1561.8	1665.5	1763.0	1853.2	1947.8	2033.5	2120.9	2189.6
27.5°	1256.2	1339.0	1431.2	1533.5	1639.9	1739.8	1846.0	1946.9	2033.1	2117.2	2177.2
30°	1224.2	1311.6	1400.0	1503.7	1614.2	1721.3	1835.2	1936.0	2026.8	2102.3	2136.1
32.5°	1191.2	1274.1	1365.3	1470.4	1583.6	1698.8	1811.7	1914.8	1998.8	2044.1	2045.0
35°	1134.0	1211.8	1306.4	1409.7	1525.8	1650.8	1765.3	1866.7	1918.0	1921.9	1866.7
37.5°	1071.5	1142.9	1232.3	1335.5	1462.7	1587.1	1704.1	1771.6	1788.8	1731.5	1629.3
40°	1027.0	1092.8	1179.1	1285.1	1411.3	1539.8	1646.3	1695.9	1677.9	1584.9	1471.0
42.5°	980.0	1041.5	1124.5	1229.1	1355.8	1485.7	1576.5	1603.0	1555.3	1447.8	1314.6
45°	903.5	959.9	1042.1	1147.5	1269.3	1391.0	1459.8	1446.3	1366.8	1239.4	1090.1
47.5°	823.8	878.2	952.3	1049.8	1174.4	1279.5	1326.1	1285.3	1172.2	1032.1	910.6
50°	771.0	826.8	895.0	988.1	1101.9	1203.3	1233.2	1171.2	1045.5	910.8	799.2
52.5°	719.2	766.9	833.7	923.6	1032.4	1118.1	1134.0	1062.5	932.8	812.0	713.1
55°	640.3	683.7	740.0	824.6	918.7	991.4	982.9	891.1	773.3	670.2	592.4
57.5°	563.9	596.6	648.7	728.0	810.6	859.4	828.5	750.2	640.4	556.0	490.3
60°	513.5	543.9	592.4	661.7	734.4	762.0	736.1	651.0	564.2	487.0	431.7
62.5°	465.7	492.5	534.2	598.6	657.3	673.6	645.9	571.6	493.4	427.5	381.7
65°	396.2	421.0	456.6	502.2	542.7	550.7	532.6	456.6	397.4	342.1	310.5
67.5°	333.2	349.4	377.2	416.6	438.1	442.8	408.0	360.1	307.9	274.0	250.2
70°	290.8	302.1	328.0	349.4	366.9	367.5	335.3	297.0	257.0	229.4	211.9
72.5°	249.8	260.7	280.2	294.9	308.3	303.9	274.5	244.3	211.9	191.1	178.1
75°	192.7	202.4	212.5	219.2	219.2	213.6	192.2	169.7	151.1	138.7	134.7
77.5°	140.1	148.0	151.4	150.3	148.4	139.6	126.0	111.3	104.6	98.7	95.8
80°	109.9	113.3	114.4	111.6	108.2	98.1	89.0	82.8	76.6	74.4	73.3
82.5°	81.5	84.5	81.5	82.3	74.8	66.5	61.6	59.4	56.8	55.9	54.8
85°	43.4	42.8	41.7	38.9	33.8	32.7	32.1	31.6	30.4	31.0	29.8
87.5°	15.6	14.5	13.0	12.9	13.2	12.5	13.2	13.4	13.6	13.4	14.4
90°	3.5	5.1	6.6	8.2	9.5	10.6	11.7	12.9	14.0	14.8	15.7
92.5°	15.4	17.2	19.0	20.8	22.1	22.8	23.6	24.5	25.3	25.8	26.3
95°	39.5	40.8	42.1	43.4	44.5	45.5	46.5	47.5	48.4	48.8	49.3
97.5°	67.8	68.8	69.9	70.8	72.0	73.1	74.3	75.4	76.6	77.1	77.6
100°	89.8	90.3	90.9	91.5	92.5	93.7	95.0	96.2	97.5	97.8	98.1
102.5°	112.9	113.2	113.4	113.6	114.3	115.4	116.6	117.8	119.0	119.4	119.8
105°	148.6	148.8	149.0	149.1	149.4	150.0	150.6	151.2	151.7	152.1	152.5
107.5°	186.3	186.5	186.6	186.8	186.9	187.0	187.1	187.2	187.3	187.7	188.1
110°	211.9	212.1	212.5	212.7	212.8	212.7	212.5	212.4	212.2	212.0	211.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	238.1	238.2	238.3	238.4	238.2	238.0	237.7	237.5	237.3	237.2	237.1
115°	277.9	277.9	277.9	277.9	277.8	277.4	277.2	276.9	276.6	276.5	276.3
117.5°	315.5	315.6	315.7	315.8	315.8	315.6	315.4	315.2	315.0	314.5	314.1
120°	341.0	341.5	342.1	342.7	342.7	342.3	341.9	341.4	341.0	340.3	339.6
122.5°	366.6	366.8	367.0	367.3	367.3	367.1	366.9	366.7	366.5	366.0	365.5
125°	404.7	404.7	404.7	404.7	404.6	404.6	404.4	404.2	404.1	403.8	403.6
127.5°	439.9	440.4	440.8	441.2	441.3	441.1	440.9	440.7	440.4	440.2	439.9
130°	464.5	464.9	465.3	465.7	465.9	465.9	465.9	465.9	465.9	465.6	465.4
132.5°	489.3	489.7	489.9	490.2	490.3	490.2	490.2	490.0	489.9	489.6	489.3
135°	522.9	523.7	524.6	525.5	525.9	525.9	525.9	525.9	525.9	525.5	525.3
137.5°	558.4	558.7	559.1	559.5	559.9	560.1	560.4	560.5	560.8	560.4	560.0
140°	582.2	582.5	582.8	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.9
142.5°	604.1	604.5	604.7	605.0	605.1	605.0	604.9	604.7	604.6	604.6	604.5
145°	634.8	635.4	635.9	636.5	636.8	637.0	637.1	637.2	637.4	637.2	637.1
147.5°	665.0	665.6	666.3	667.0	667.3	667.2	667.1	666.9	666.8	666.8	666.6
150°	683.2	683.8	684.4	684.9	685.2	685.2	685.2	685.2	685.2	685.2	685.2
152.5°	700.3	700.7	701.0	701.3	701.6	701.6	701.8	701.9	702.1	702.4	702.7
155°	726.6	726.6	726.6	726.6	726.5	726.4	726.3	726.1	726.0	726.5	727.1
157.5°	748.8	748.5	748.3	748.0	747.9	747.9	747.9	747.8	747.8	748.2	748.6
160°	762.1	762.1	761.9	761.7	761.6	761.5	761.3	761.2	761.1	761.5	761.9
162.5°	774.2	773.8	773.5	773.1	772.8	772.7	772.6	772.4	772.3	773.1	773.8
165°	790.6	790.2	789.7	789.3	789.0	788.6	788.4	788.1	787.8	788.6	789.5
167.5°	803.0	802.4	801.8	801.3	801.0	801.0	801.0	801.0	801.0	801.9	802.7
170°	810.1	809.3	808.6	808.0	807.6	807.8	808.0	808.0	808.2	809.0	809.9
172.5°	815.3	814.6	814.1	813.5	813.2	813.3	813.3	813.3	813.3	814.2	815.2
175°	822.1	821.4	820.8	820.0	819.6	819.5	819.3	819.2	819.0	820.0	821.0
177.5°	824.6	824.0	823.5	822.9	822.6	822.6	822.6	822.6	822.6	823.4	824.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1467.5	1469.3	1470.6	1475.1	1475.5	1479.6	1475.5
5°	1588.9	1596.8	1609.2	1621.5	1622.7	1630.5	1616.5
7.5°	1725.0	1743.3	1754.7	1774.7	1782.7	1787.5	1779.5
10°	1818.8	1835.7	1865.6	1880.2	1894.9	1897.1	1890.4
12.5°	1909.4	1936.3	1959.8	1987.5	1986.9	2006.7	1999.5
15°	2030.2	2057.8	2090.4	2121.5	2132.7	2132.7	2141.8
17.5°	2116.3	2166.9	2200.7	2225.0	2251.7	2256.3	2253.2
20°	2174.5	2229.1	2265.2	2296.8	2314.8	2319.9	2319.9
22.5°	2217.7	2264.2	2299.5	2327.8	2342.8	2348.7	2346.9
25°	2247.7	2287.7	2309.2	2317.6	2321.6	2320.4	2309.7
27.5°	2206.7	2204.9	2191.4	2165.4	2145.9	2134.1	2120.6
30°	2128.3	2098.9	2065.1	2027.9	1980.0	1943.3	1932.1
32.5°	2011.4	1945.6	1888.3	1826.4	1774.8	1738.2	1722.9
35°	1785.6	1681.3	1596.2	1521.8	1467.7	1433.9	1422.6
37.5°	1517.5	1416.6	1311.2	1239.1	1194.2	1160.0	1147.3
40°	1347.0	1237.1	1145.3	1077.7	1031.4	998.2	997.6
42.5°	1191.5	1086.5	1000.1	951.4	901.6	879.5	879.5
45°	975.6	891.6	818.4	780.1	750.2	732.1	727.1
47.5°	807.8	738.3	689.5	659.0	634.6	623.1	615.7
50°	713.5	652.6	613.8	587.3	573.7	559.1	558.0
52.5°	635.1	586.0	555.6	534.1	517.0	508.2	508.4
55°	533.8	494.9	473.4	457.1	443.6	436.8	434.0
57.5°	449.6	420.4	404.9	389.9	384.2	378.9	377.4
60°	397.4	377.6	363.0	351.1	342.7	341.0	340.4
62.5°	354.1	333.5	323.3	314.1	307.9	305.3	304.4
65°	292.0	276.7	267.7	260.4	258.1	254.2	253.6
67.5°	235.4	226.2	220.3	215.2	212.1	211.9	211.9
70°	200.6	195.6	190.5	187.7	186.0	184.8	184.8
72.5°	170.9	167.1	163.0	161.5	161.2	160.0	159.6
75°	130.2	126.3	126.8	124.0	121.7	119.0	117.2
77.5°	92.3	89.5	88.9	88.6	86.7	86.3	87.2
80°	71.6	68.7	68.2	68.7	68.2	66.5	66.5
82.5°	54.5	52.1	51.5	51.2	50.6	51.2	50.3
85°	29.3	28.2	28.2	28.2	29.3	28.8	28.2
87.5°	13.7	13.4	13.9	13.5	13.6	13.2	13.8
90°	16.6	17.4	18.0	18.3	18.6	18.8	19.2
92.5°	26.7	27.3	27.6	27.8	28.0	28.1	28.3
95°	49.7	50.1	50.4	50.4	50.4	50.4	50.4
97.5°	78.1	78.7	78.9	78.9	78.9	78.9	78.9
100°	98.4	98.7	98.8	98.8	98.8	98.8	98.8
102.5°	120.1	120.5	120.7	120.9	121.0	121.2	121.2
105°	153.0	153.4	153.8	154.3	154.7	155.1	155.6
107.5°	188.4	188.8	189.1	189.0	189.0	189.0	188.9
110°	211.4	211.1	211.2	211.7	212.1	212.5	212.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	237.1	237.0	237.0	237.1	237.2	237.3	237.3
115°	276.2	276.1	275.9	275.8	275.7	275.5	275.3
117.5°	313.6	313.1	312.7	312.4	312.1	311.9	311.5
120°	338.8	338.2	337.9	338.3	338.5	338.8	339.1
122.5°	365.1	364.6	364.1	363.5	363.1	362.6	362.1
125°	403.2	403.0	402.7	402.4	402.1	401.9	401.5
127.5°	439.6	439.3	439.0	438.8	438.6	438.4	438.1
130°	465.0	464.8	464.4	463.8	463.3	462.7	462.1
132.5°	489.0	488.8	488.5	488.3	488.0	487.8	487.6
135°	525.0	524.7	524.3	523.9	523.5	523.1	522.7
137.5°	559.7	559.3	559.1	559.2	559.3	559.4	559.5
140°	582.8	582.6	582.5	582.4	582.2	582.0	582.0
142.5°	604.5	604.5	604.5	604.5	604.5	604.4	604.4
145°	637.0	636.8	636.5	636.1	635.7	635.3	634.9
147.5°	666.5	666.3	666.3	666.1	665.9	665.9	665.7
150°	685.2	685.2	685.1	685.0	684.9	684.7	684.5
152.5°	703.0	703.4	703.4	703.0	702.6	702.3	701.9
155°	727.7	728.2	728.2	727.7	727.1	726.5	726.0
157.5°	749.1	749.5	749.4	749.0	748.5	748.0	747.5
160°	762.3	762.7	762.6	761.9	761.2	760.5	759.8
162.5°	774.5	775.3	775.3	774.6	774.0	773.2	772.5
165°	790.4	791.2	791.3	790.8	790.2	789.6	789.1
167.5°	803.6	804.5	804.5	803.6	802.7	801.8	801.0
170°	810.7	811.6	811.5	810.6	809.6	808.5	807.6
172.5°	816.2	817.2	817.2	816.2	815.1	814.2	813.2
175°	822.0	823.0	823.0	822.0	821.0	820.0	819.0
177.5°	825.0	825.8	825.7	824.8	823.9	823.0	822.1
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1

(END OF REPORT)