

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: P332963-927

Luminaire Tested: **SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332963-927  
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-C1020D590U927-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5110.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 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

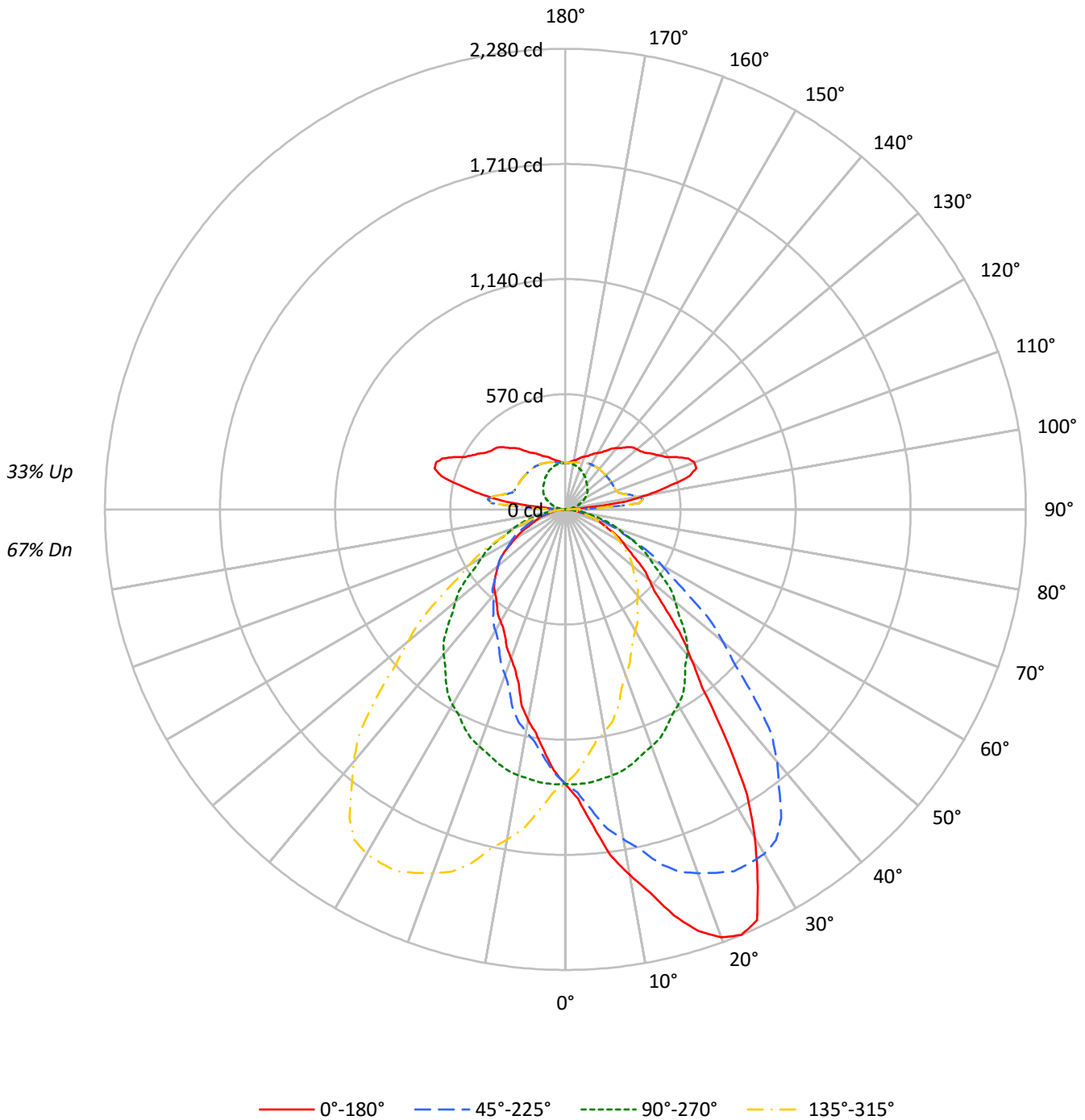
Input Watts (W): 48.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	91	96	93	89	86	83	80	78	73	71	70	65	63	62	58				
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	58	55	53	50				
3	86	76	69	64	81	73	66	61	65	60	56	58	54	51	52	49	46	43				
4	79	68	60	54	74	65	58	52	58	53	48	52	48	44	46	43	40	37				
5	73	61	53	47	68	58	51	45	52	46	42	47	42	39	42	38	35	32				
6	67	55	47	41	63	52	45	40	47	41	37	43	38	34	38	34	31	29				
7	62	50	42	36	59	48	40	35	43	37	33	39	34	30	35	31	28	26				
8	58	46	38	32	55	44	36	31	40	34	29	36	31	27	32	28	25	23				
9	54	42	34	29	51	40	33	28	36	31	26	33	28	25	30	26	23	21				
10	51	38	31	26	48	37	30	26	34	28	24	31	26	22	28	24	21	19				

**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	2.6
10°-20°	397.3	7.8
20°-30°	621.4	12.2
30°-40°	690.7	13.5
40°-50°	612.9	12.0
50°-60°	477.6	9.3
60°-70°	312.7	6.1
70°-80°	153.8	3.0
80°-90°	39.2	0.8
90°-100°	166.1	3.3
100°-110°	345.8	6.8
110°-120°	309.7	6.1
120°-130°	260.5	5.1
130°-140°	217.2	4.3
140°-150°	166.0	3.2
150°-160°	116.6	2.3
160°-170°	68.6	1.3
170°-180°	22.3	0.4
0°-30°	1150.3	22.5
0°-40°	1841.1	36.0
0°-60°	2931.5	57.4
0°-90°	3437.1	67.3
90°-120°	821.6	16.1
90°-150°	1465.3	28.7
90°-180°	1673.0	32.7
0°-180°	5110.0	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°	10	0	10	0	10	9
95°	110	15	110	15	110	171
105°	636	53	636	53	636	629
115°	610	93	610	93	610	606
125°	487	130	487	130	487	443
135°	436	154	436	154	436	336
145°	356	178	356	178	356	225
155°	298	202	298	202	298	139
165°	260	220	260	220	260	74
175°	234	230	234	230	234	23
180°	230	230	230	230	230	



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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°	11.6	11.1	11.6	11.6	11.9	11.4	11.8	12.6	11.6	12.1	12.0
90°	9.5	9.5	9.9	9.5	9.0	9.0	8.6	8.2	7.7	8.2	7.2
92.5°	34.8	34.8	36.4	38.7	44.1	53.2	66.8	88.7	119.4	143.3	125.5
95°	110.3	116.1	124.3	138.3	160.4	204.2	264.8	334.9	378.7	368.3	277.9
97.5°	294.7	304.1	317.7	344.9	377.3	424.5	468.7	494.7	475.8	387.9	260.2
100°	414.4	418.0	431.6	459.1	498.4	531.9	554.1	545.0	479.0	363.3	235.9
102.5°	518.5	521.4	535.7	555.6	579.8	593.7	587.3	542.5	451.9	332.6	219.6
105°	635.8	638.5	644.8	648.5	647.6	629.1	584.3	506.1	402.7	296.4	205.7
107.5°	679.4	678.2	673.7	663.4	641.0	600.8	537.7	454.6	362.9	276.2	203.1
110°	680.1	676.0	667.9	649.0	616.9	567.1	501.6	423.4	343.0	269.3	203.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	658.8	652.2	640.8	617.8	581.4	531.7	469.8	400.7	331.8	266.1	206.0
115°	610.5	606.9	592.5	565.3	529.7	486.2	433.4	377.8	321.3	264.4	210.2
117.5°	561.7	558.8	544.2	521.4	490.9	454.2	412.6	366.5	316.6	263.9	214.5
120°	534.2	529.2	517.5	497.6	471.7	439.7	403.5	361.6	314.1	263.9	217.9
122.5°	512.5	507.5	497.6	480.5	458.8	430.6	397.8	357.2	311.2	263.6	221.1
125°	487.1	484.4	475.9	462.7	444.7	419.8	388.6	349.7	306.4	263.0	225.9
127.5°	472.3	469.6	462.4	450.8	432.5	409.0	377.9	340.7	300.0	262.0	229.8
130°	463.7	461.0	453.7	442.4	423.9	399.9	369.2	333.5	296.0	261.7	232.7
132.5°	453.9	451.1	444.3	431.6	413.4	389.4	359.4	325.9	292.4	261.3	235.3
135°	435.6	432.9	425.7	413.0	395.0	372.3	344.8	315.4	286.9	260.7	239.1
137.5°	413.0	409.8	403.9	391.3	374.5	354.0	330.8	305.9	282.3	260.6	241.3
140°	396.8	393.2	386.8	376.9	361.1	342.1	321.8	300.5	279.7	260.3	243.1
142.5°	379.4	376.9	371.3	362.0	348.1	331.6	314.2	295.5	277.6	260.3	244.5
145°	355.6	353.4	348.9	341.2	329.9	317.3	303.6	288.3	273.9	259.4	245.4
147.5°	334.6	333.7	330.3	323.8	315.4	305.5	294.6	282.4	270.5	257.8	245.8
150°	322.7	322.2	319.5	313.6	306.4	298.3	289.2	278.8	268.0	256.7	245.8
152.5°	311.8	311.3	309.7	304.9	298.8	292.1	283.8	274.8	265.1	254.8	245.1
155°	297.8	297.8	296.4	292.9	288.3	282.9	276.1	268.9	260.7	252.2	244.0
157.5°	285.5	285.5	284.7	282.0	278.5	274.2	268.5	262.4	256.4	249.4	242.9
160°	277.9	277.9	277.5	274.7	272.0	268.4	263.5	258.5	253.1	247.2	241.8
162.5°	270.7	271.1	270.6	267.9	265.9	262.6	258.7	254.5	250.2	245.0	240.7
165°	259.8	260.3	260.7	259.0	257.1	254.8	251.7	249.0	245.4	241.8	238.6
167.5°	251.3	251.6	251.7	250.6	249.6	248.3	245.7	243.7	241.1	238.5	236.5
170°	245.8	245.8	246.3	245.8	244.9	243.6	241.8	240.4	238.1	236.3	235.0
172.5°	240.4	241.1	241.6	241.1	240.6	239.6	238.5	237.5	235.6	234.2	233.5
175°	234.1	235.0	235.9	235.0	235.0	235.0	234.1	233.6	232.7	231.8	231.8
177.5°	230.4	231.1	231.8	231.5	231.8	231.5	231.5	231.1	230.8	230.4	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



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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°	11.8	11.3	11.6	11.6	12.0	13.7	14.7	15.0	13.9	12.8	11.6
90°	6.3	6.3	3.6	3.6	3.2	2.7	1.3	0.5	1.3	2.7	3.2
92.5°	91.3	56.2	33.3	23.8	17.3	11.7	7.5	5.1	7.5	11.7	17.3
95°	169.9	95.8	56.5	37.5	26.7	20.8	16.2	14.9	16.2	20.8	26.7
97.5°	152.7	91.6	61.3	45.4	36.0	30.7	26.8	26.8	26.8	30.7	36.0
100°	143.7	92.6	66.0	51.5	42.9	37.5	34.4	34.4	34.4	37.5	42.9
102.5°	141.2	96.3	72.1	58.4	50.1	45.1	42.3	41.6	42.3	45.1	50.1
105°	142.4	104.8	83.2	70.0	61.9	56.5	54.3	52.8	54.3	56.5	61.9
107.5°	149.0	114.9	95.0	82.1	74.3	68.5	66.2	65.4	66.2	68.5	74.3
110°	154.1	122.5	102.6	90.4	82.2	76.8	74.5	73.7	74.5	76.8	82.2





TEST NUMBER: P332963-927

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.5	129.7	110.5	98.3	90.2	85.2	82.5	81.6	82.5	85.2	90.2
115°	168.1	141.0	122.9	110.7	102.1	97.6	94.4	93.1	94.4	97.6	102.1
117.5°	176.9	151.9	134.8	122.1	114.1	109.1	106.3	105.0	106.3	109.1	114.1
120°	183.0	159.5	142.4	129.7	122.0	117.0	113.9	113.0	113.9	117.0	122.0
122.5°	188.8	166.8	149.6	137.3	128.9	124.3	121.1	120.2	121.1	124.3	128.9
125°	197.5	176.7	160.4	147.7	139.2	134.2	131.5	129.7	131.5	134.2	139.2
127.5°	205.0	185.9	170.2	157.4	148.5	142.8	139.6	138.1	139.6	142.8	148.5
130°	209.7	192.0	176.7	163.6	155.0	148.2	144.6	142.8	144.6	148.2	155.0
132.5°	214.4	197.1	181.7	169.4	160.1	153.7	148.9	147.5	148.9	153.7	160.1
135°	220.5	204.2	189.3	177.6	168.1	160.4	155.9	154.1	155.9	160.4	168.1
137.5°	224.9	209.7	195.7	184.6	174.7	167.4	162.4	160.7	162.4	167.4	174.7
140°	227.8	213.3	199.7	188.9	179.4	171.7	166.8	165.4	166.8	171.7	179.4
142.5°	229.9	216.6	203.4	192.9	183.7	176.4	171.8	170.5	171.8	176.4	183.7
145°	232.3	220.1	208.3	198.4	189.8	183.5	179.0	177.6	179.0	183.5	189.8
147.5°	234.3	223.7	212.7	203.7	196.5	190.0	186.1	185.6	186.1	190.0	196.5
150°	235.4	225.5	215.6	207.0	200.2	194.8	191.2	190.7	191.2	194.8	200.2
152.5°	236.1	227.0	218.1	210.2	204.1	199.1	195.5	195.4	195.5	199.1	204.1
155°	236.8	229.1	221.4	214.7	209.7	205.2	202.5	202.0	202.5	205.2	209.7
157.5°	236.8	230.7	224.1	218.8	214.4	211.0	208.4	208.4	208.4	211.0	214.4
160°	236.8	231.4	225.9	220.9	217.4	214.2	212.4	212.4	212.4	214.2	217.4
162.5°	236.8	232.1	227.0	223.2	219.9	217.1	215.6	216.0	215.6	217.1	219.9
165°	235.9	232.3	228.2	225.5	223.2	220.9	220.1	220.1	220.1	220.9	223.2
167.5°	234.8	232.2	229.2	227.1	225.9	224.1	223.7	224.1	223.7	224.1	225.9
170°	234.1	231.8	229.6	228.2	227.3	225.9	225.5	225.9	225.5	225.9	227.3
172.5°	233.4	231.5	229.9	228.9	228.4	227.4	227.3	227.8	227.3	227.4	228.4
175°	232.3	230.9	230.0	230.0	229.6	229.1	229.1	229.6	229.1	229.1	229.6
177.5°	231.1	230.4	230.0	230.0	230.0	229.7	230.0	230.4	230.0	229.7	230.0
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332963-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-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°	11.6	11.2	11.8	10.9	11.5	11.7	11.2	11.2	11.8	11.0	11.0
90°	3.6	3.6	6.3	6.3	7.2	8.2	7.7	8.2	8.6	9.0	9.0
92.5°	23.8	33.3	56.2	91.3	125.5	143.3	119.4	88.7	66.8	53.2	44.1
95°	37.5	56.5	95.8	169.9	277.9	368.3	378.7	334.9	264.8	204.2	160.4
97.5°	45.4	61.3	91.6	152.7	260.2	387.9	475.8	494.7	468.7	424.5	377.3
100°	51.5	66.0	92.6	143.7	235.9	363.3	479.0	545.0	554.1	531.9	498.4
102.5°	58.4	72.1	96.3	141.2	219.6	332.6	451.9	542.5	587.3	593.7	579.8
105°	70.0	83.2	104.8	142.4	205.7	296.4	402.7	506.1	584.3	629.1	647.6
107.5°	82.1	95.0	114.9	149.0	203.1	276.2	362.9	454.6	537.7	600.8	641.0
110°	90.4	102.6	122.5	154.1	203.8	269.3	343.0	423.4	501.6	567.1	616.9



TEST NUMBER: P332963-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	98.3	110.5	129.7	159.5	206.0	266.1	331.8	400.7	469.8	531.7	581.4
115°	110.7	122.9	141.0	168.1	210.2	264.4	321.3	377.8	433.4	486.2	529.7
117.5°	122.1	134.8	151.9	176.9	214.5	263.9	316.6	366.5	412.6	454.2	490.9
120°	129.7	142.4	159.5	183.0	217.9	263.9	314.1	361.6	403.5	439.7	471.7
122.5°	137.3	149.6	166.8	188.8	221.1	263.6	311.2	357.2	397.8	430.6	458.8
125°	147.7	160.4	176.7	197.5	225.9	263.0	306.4	349.7	388.6	419.8	444.7
127.5°	157.4	170.2	185.9	205.0	229.8	262.0	300.0	340.7	377.9	409.0	432.5
130°	163.6	176.7	192.0	209.7	232.7	261.7	296.0	333.5	369.2	399.9	423.9
132.5°	169.4	181.7	197.1	214.4	235.3	261.3	292.4	325.9	359.4	389.4	413.4
135°	177.6	189.3	204.2	220.5	239.1	260.7	286.9	315.4	344.8	372.3	395.0
137.5°	184.6	195.7	209.7	224.9	241.3	260.6	282.3	305.9	330.8	354.0	374.5
140°	188.9	199.7	213.3	227.8	243.1	260.3	279.7	300.5	321.8	342.1	361.1
142.5°	192.9	203.4	216.6	229.9	244.5	260.3	277.6	295.5	314.2	331.6	348.1
145°	198.4	208.3	220.1	232.3	245.4	259.4	273.9	288.3	303.6	317.3	329.9
147.5°	203.7	212.7	223.7	234.3	245.8	257.8	270.5	282.4	294.6	305.5	315.4
150°	207.0	215.6	225.5	235.4	245.8	256.7	268.0	278.8	289.2	298.3	306.4
152.5°	210.2	218.1	227.0	236.1	245.1	254.8	265.1	274.8	283.8	292.1	298.8
155°	214.7	221.4	229.1	236.8	244.0	252.2	260.7	268.9	276.1	282.9	288.3
157.5°	218.8	224.1	230.7	236.8	242.9	249.4	256.4	262.4	268.5	274.2	278.5
160°	220.9	225.9	231.4	236.8	241.8	247.2	253.1	258.5	263.5	268.4	272.0
162.5°	223.2	227.0	232.1	236.8	240.7	245.0	250.2	254.5	258.7	262.6	265.9
165°	225.5	228.2	232.3	235.9	238.6	241.8	245.4	249.0	251.7	254.8	257.1
167.5°	227.1	229.2	232.2	234.8	236.5	238.5	241.1	243.7	245.7	248.3	249.6
170°	228.2	229.6	231.8	234.1	235.0	236.3	238.1	240.4	241.8	243.6	244.9
172.5°	228.9	229.9	231.5	233.4	233.5	234.2	235.6	237.5	238.5	239.6	240.6
175°	230.0	230.0	230.9	232.3	231.8	231.8	232.7	233.6	234.1	235.0	235.0
177.5°	230.0	230.0	230.4	231.1	230.4	230.4	230.8	231.1	231.5	231.5	231.8
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332963-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-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°	12.0	11.6	11.1	11.6	11.1	11.6	12.0	11.0	11.0	11.8	11.2
90°	9.5	9.9	9.5	9.5	9.5	9.9	9.5	9.0	9.0	8.6	8.2
92.5°	38.7	36.4	34.8	34.8	34.8	36.4	38.7	44.1	53.2	66.8	88.7
95°	138.3	124.3	116.1	110.3	116.1	124.3	138.3	160.4	204.2	264.8	334.9
97.5°	344.9	317.7	304.1	294.7	304.1	317.7	344.9	377.3	424.5	468.7	494.7
100°	459.1	431.6	418.0	414.4	418.0	431.6	459.1	498.4	531.9	554.1	545.0
102.5°	555.6	535.7	521.4	518.5	521.4	535.7	555.6	579.8	593.7	587.3	542.5
105°	648.5	644.8	638.5	635.8	638.5	644.8	648.5	647.6	629.1	584.3	506.1
107.5°	663.4	673.7	678.2	679.4	678.2	673.7	663.4	641.0	600.8	537.7	454.6
110°	649.0	667.9	676.0	680.1	676.0	667.9	649.0	616.9	567.1	501.6	423.4



TEST NUMBER: P332963-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	617.8	640.8	652.2	658.8	652.2	640.8	617.8	581.4	531.7	469.8	400.7
115°	565.3	592.5	606.9	610.5	606.9	592.5	565.3	529.7	486.2	433.4	377.8
117.5°	521.4	544.2	558.8	561.7	558.8	544.2	521.4	490.9	454.2	412.6	366.5
120°	497.6	517.5	529.2	534.2	529.2	517.5	497.6	471.7	439.7	403.5	361.6
122.5°	480.5	497.6	507.5	512.5	507.5	497.6	480.5	458.8	430.6	397.8	357.2
125°	462.7	475.9	484.4	487.1	484.4	475.9	462.7	444.7	419.8	388.6	349.7
127.5°	450.8	462.4	469.6	472.3	469.6	462.4	450.8	432.5	409.0	377.9	340.7
130°	442.4	453.7	461.0	463.7	461.0	453.7	442.4	423.9	399.9	369.2	333.5
132.5°	431.6	444.3	451.1	453.9	451.1	444.3	431.6	413.4	389.4	359.4	325.9
135°	413.0	425.7	432.9	435.6	432.9	425.7	413.0	395.0	372.3	344.8	315.4
137.5°	391.3	403.9	409.8	413.0	409.8	403.9	391.3	374.5	354.0	330.8	305.9
140°	376.9	386.8	393.2	396.8	393.2	386.8	376.9	361.1	342.1	321.8	300.5
142.5°	362.0	371.3	376.9	379.4	376.9	371.3	362.0	348.1	331.6	314.2	295.5
145°	341.2	348.9	353.4	355.6	353.4	348.9	341.2	329.9	317.3	303.6	288.3
147.5°	323.8	330.3	333.7	334.6	333.7	330.3	323.8	315.4	305.5	294.6	282.4
150°	313.6	319.5	322.2	322.7	322.2	319.5	313.6	306.4	298.3	289.2	278.8
152.5°	304.9	309.7	311.3	311.8	311.3	309.7	304.9	298.8	292.1	283.8	274.8
155°	292.9	296.4	297.8	297.8	297.8	296.4	292.9	288.3	282.9	276.1	268.9
157.5°	282.0	284.7	285.5	285.5	285.5	284.7	282.0	278.5	274.2	268.5	262.4
160°	274.7	277.5	277.9	277.9	277.9	277.5	274.7	272.0	268.4	263.5	258.5
162.5°	267.9	270.6	271.1	270.7	271.1	270.6	267.9	265.9	262.6	258.7	254.5
165°	259.0	260.7	260.3	259.8	260.3	260.7	259.0	257.1	254.8	251.7	249.0
167.5°	250.6	251.7	251.6	251.3	251.6	251.7	250.6	249.6	248.3	245.7	243.7
170°	245.8	246.3	245.8	245.8	245.8	246.3	245.8	244.9	243.6	241.8	240.4
172.5°	241.1	241.6	241.1	240.4	241.1	241.6	241.1	240.6	239.6	238.5	237.5
175°	235.0	235.9	235.0	234.1	235.0	235.9	235.0	235.0	235.0	234.1	233.6
177.5°	231.5	231.8	231.1	230.4	231.1	231.8	231.5	231.8	231.5	231.5	231.1
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332963-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-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°	11.2	11.7	11.5	10.9	11.8	11.2	11.6	11.6	12.8	13.9	15.0
90°	7.7	8.2	7.2	6.3	6.3	3.6	3.6	3.2	2.7	1.3	0.5
92.5°	119.4	143.3	125.5	91.3	56.2	33.3	23.8	17.3	11.7	7.5	5.1
95°	378.7	368.3	277.9	169.9	95.8	56.5	37.5	26.7	20.8	16.2	14.9
97.5°	475.8	387.9	260.2	152.7	91.6	61.3	45.4	36.0	30.7	26.8	26.8
100°	479.0	363.3	235.9	143.7	92.6	66.0	51.5	42.9	37.5	34.4	34.4
102.5°	451.9	332.6	219.6	141.2	96.3	72.1	58.4	50.1	45.1	42.3	41.6
105°	402.7	296.4	205.7	142.4	104.8	83.2	70.0	61.9	56.5	54.3	52.8
107.5°	362.9	276.2	203.1	149.0	114.9	95.0	82.1	74.3	68.5	66.2	65.4
110°	343.0	269.3	203.8	154.1	122.5	102.6	90.4	82.2	76.8	74.5	73.7



TEST NUMBER: P332963-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	331.8	266.1	206.0	159.5	129.7	110.5	98.3	90.2	85.2	82.5	81.6
115°	321.3	264.4	210.2	168.1	141.0	122.9	110.7	102.1	97.6	94.4	93.1
117.5°	316.6	263.9	214.5	176.9	151.9	134.8	122.1	114.1	109.1	106.3	105.0
120°	314.1	263.9	217.9	183.0	159.5	142.4	129.7	122.0	117.0	113.9	113.0
122.5°	311.2	263.6	221.1	188.8	166.8	149.6	137.3	128.9	124.3	121.1	120.2
125°	306.4	263.0	225.9	197.5	176.7	160.4	147.7	139.2	134.2	131.5	129.7
127.5°	300.0	262.0	229.8	205.0	185.9	170.2	157.4	148.5	142.8	139.6	138.1
130°	296.0	261.7	232.7	209.7	192.0	176.7	163.6	155.0	148.2	144.6	142.8
132.5°	292.4	261.3	235.3	214.4	197.1	181.7	169.4	160.1	153.7	148.9	147.5
135°	286.9	260.7	239.1	220.5	204.2	189.3	177.6	168.1	160.4	155.9	154.1
137.5°	282.3	260.6	241.3	224.9	209.7	195.7	184.6	174.7	167.4	162.4	160.7
140°	279.7	260.3	243.1	227.8	213.3	199.7	188.9	179.4	171.7	166.8	165.4
142.5°	277.6	260.3	244.5	229.9	216.6	203.4	192.9	183.7	176.4	171.8	170.5
145°	273.9	259.4	245.4	232.3	220.1	208.3	198.4	189.8	183.5	179.0	177.6
147.5°	270.5	257.8	245.8	234.3	223.7	212.7	203.7	196.5	190.0	186.1	185.6
150°	268.0	256.7	245.8	235.4	225.5	215.6	207.0	200.2	194.8	191.2	190.7
152.5°	265.1	254.8	245.1	236.1	227.0	218.1	210.2	204.1	199.1	195.5	195.4
155°	260.7	252.2	244.0	236.8	229.1	221.4	214.7	209.7	205.2	202.5	202.0
157.5°	256.4	249.4	242.9	236.8	230.7	224.1	218.8	214.4	211.0	208.4	208.4
160°	253.1	247.2	241.8	236.8	231.4	225.9	220.9	217.4	214.2	212.4	212.4
162.5°	250.2	245.0	240.7	236.8	232.1	227.0	223.2	219.9	217.1	215.6	216.0
165°	245.4	241.8	238.6	235.9	232.3	228.2	225.5	223.2	220.9	220.1	220.1
167.5°	241.1	238.5	236.5	234.8	232.2	229.2	227.1	225.9	224.1	223.7	224.1
170°	238.1	236.3	235.0	234.1	231.8	229.6	228.2	227.3	225.9	225.5	225.9
172.5°	235.6	234.2	233.5	233.4	231.5	229.9	228.9	228.4	227.4	227.3	227.8
175°	232.7	231.8	231.8	232.3	230.9	230.0	230.0	229.6	229.1	229.1	229.6
177.5°	230.8	230.4	230.4	231.1	230.4	230.0	230.0	230.0	229.7	230.0	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332963-927

CATALOG NUMBER: SA4XXRDIP-C1020D590U927-4F0-1E-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°	14.7	13.7	12.0	11.6	11.6	11.3	11.8	12.0	12.1	11.6	12.6
90°	1.3	2.7	3.2	3.6	3.6	6.3	6.3	7.2	8.2	7.7	8.2
92.5°	7.5	11.7	17.3	23.8	33.3	56.2	91.3	125.5	143.3	119.4	88.7
95°	16.2	20.8	26.7	37.5	56.5	95.8	169.9	277.9	368.3	378.7	334.9
97.5°	26.8	30.7	36.0	45.4	61.3	91.6	152.7	260.2	387.9	475.8	494.7
100°	34.4	37.5	42.9	51.5	66.0	92.6	143.7	235.9	363.3	479.0	545.0
102.5°	42.3	45.1	50.1	58.4	72.1	96.3	141.2	219.6	332.6	451.9	542.5
105°	54.3	56.5	61.9	70.0	83.2	104.8	142.4	205.7	296.4	402.7	506.1
107.5°	66.2	68.5	74.3	82.1	95.0	114.9	149.0	203.1	276.2	362.9	454.6
110°	74.5	76.8	82.2	90.4	102.6	122.5	154.1	203.8	269.3	343.0	423.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.5	85.2	90.2	98.3	110.5	129.7	159.5	206.0	266.1	331.8	400.7
115°	94.4	97.6	102.1	110.7	122.9	141.0	168.1	210.2	264.4	321.3	377.8
117.5°	106.3	109.1	114.1	122.1	134.8	151.9	176.9	214.5	263.9	316.6	366.5
120°	113.9	117.0	122.0	129.7	142.4	159.5	183.0	217.9	263.9	314.1	361.6
122.5°	121.1	124.3	128.9	137.3	149.6	166.8	188.8	221.1	263.6	311.2	357.2
125°	131.5	134.2	139.2	147.7	160.4	176.7	197.5	225.9	263.0	306.4	349.7
127.5°	139.6	142.8	148.5	157.4	170.2	185.9	205.0	229.8	262.0	300.0	340.7
130°	144.6	148.2	155.0	163.6	176.7	192.0	209.7	232.7	261.7	296.0	333.5
132.5°	148.9	153.7	160.1	169.4	181.7	197.1	214.4	235.3	261.3	292.4	325.9
135°	155.9	160.4	168.1	177.6	189.3	204.2	220.5	239.1	260.7	286.9	315.4
137.5°	162.4	167.4	174.7	184.6	195.7	209.7	224.9	241.3	260.6	282.3	305.9
140°	166.8	171.7	179.4	188.9	199.7	213.3	227.8	243.1	260.3	279.7	300.5
142.5°	171.8	176.4	183.7	192.9	203.4	216.6	229.9	244.5	260.3	277.6	295.5
145°	179.0	183.5	189.8	198.4	208.3	220.1	232.3	245.4	259.4	273.9	288.3
147.5°	186.1	190.0	196.5	203.7	212.7	223.7	234.3	245.8	257.8	270.5	282.4
150°	191.2	194.8	200.2	207.0	215.6	225.5	235.4	245.8	256.7	268.0	278.8
152.5°	195.5	199.1	204.1	210.2	218.1	227.0	236.1	245.1	254.8	265.1	274.8
155°	202.5	205.2	209.7	214.7	221.4	229.1	236.8	244.0	252.2	260.7	268.9
157.5°	208.4	211.0	214.4	218.8	224.1	230.7	236.8	242.9	249.4	256.4	262.4
160°	212.4	214.2	217.4	220.9	225.9	231.4	236.8	241.8	247.2	253.1	258.5
162.5°	215.6	217.1	219.9	223.2	227.0	232.1	236.8	240.7	245.0	250.2	254.5
165°	220.1	220.9	223.2	225.5	228.2	232.3	235.9	238.6	241.8	245.4	249.0
167.5°	223.7	224.1	225.9	227.1	229.2	232.2	234.8	236.5	238.5	241.1	243.7
170°	225.5	225.9	227.3	228.2	229.6	231.8	234.1	235.0	236.3	238.1	240.4
172.5°	227.3	227.4	228.4	228.9	229.9	231.5	233.4	233.5	234.2	235.6	237.5
175°	229.1	229.1	229.6	230.0	230.0	230.9	232.3	231.8	231.8	232.7	233.6
177.5°	230.0	229.7	230.0	230.0	230.0	230.4	231.1	230.4	230.4	230.8	231.1
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



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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°	11.8	11.4	11.9	11.6	11.6	11.1	11.6
90°	8.6	9.0	9.0	9.5	9.9	9.5	9.5
92.5°	66.8	53.2	44.1	38.7	36.4	34.8	34.8
95°	264.8	204.2	160.4	138.3	124.3	116.1	110.3
97.5°	468.7	424.5	377.3	344.9	317.7	304.1	294.7
100°	554.1	531.9	498.4	459.1	431.6	418.0	414.4
102.5°	587.3	593.7	579.8	555.6	535.7	521.4	518.5
105°	584.3	629.1	647.6	648.5	644.8	638.5	635.8
107.5°	537.7	600.8	641.0	663.4	673.7	678.2	679.4
110°	501.6	567.1	616.9	649.0	667.9	676.0	680.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	469.8	531.7	581.4	617.8	640.8	652.2	658.8
115°	433.4	486.2	529.7	565.3	592.5	606.9	610.5
117.5°	412.6	454.2	490.9	521.4	544.2	558.8	561.7
120°	403.5	439.7	471.7	497.6	517.5	529.2	534.2
122.5°	397.8	430.6	458.8	480.5	497.6	507.5	512.5
125°	388.6	419.8	444.7	462.7	475.9	484.4	487.1
127.5°	377.9	409.0	432.5	450.8	462.4	469.6	472.3
130°	369.2	399.9	423.9	442.4	453.7	461.0	463.7
132.5°	359.4	389.4	413.4	431.6	444.3	451.1	453.9
135°	344.8	372.3	395.0	413.0	425.7	432.9	435.6
137.5°	330.8	354.0	374.5	391.3	403.9	409.8	413.0
140°	321.8	342.1	361.1	376.9	386.8	393.2	396.8
142.5°	314.2	331.6	348.1	362.0	371.3	376.9	379.4
145°	303.6	317.3	329.9	341.2	348.9	353.4	355.6
147.5°	294.6	305.5	315.4	323.8	330.3	333.7	334.6
150°	289.2	298.3	306.4	313.6	319.5	322.2	322.7
152.5°	283.8	292.1	298.8	304.9	309.7	311.3	311.8
155°	276.1	282.9	288.3	292.9	296.4	297.8	297.8
157.5°	268.5	274.2	278.5	282.0	284.7	285.5	285.5
160°	263.5	268.4	272.0	274.7	277.5	277.9	277.9
162.5°	258.7	262.6	265.9	267.9	270.6	271.1	270.7
165°	251.7	254.8	257.1	259.0	260.7	260.3	259.8
167.5°	245.7	248.3	249.6	250.6	251.7	251.6	251.3
170°	241.8	243.6	244.9	245.8	246.3	245.8	245.8
172.5°	238.5	239.6	240.6	241.1	241.6	241.1	240.4
175°	234.1	235.0	235.0	235.0	235.9	235.0	234.1
177.5°	231.5	231.5	231.8	231.5	231.8	231.1	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0

(END OF REPORT)