

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: P332963-935

Luminaire Tested: **SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332963-935  
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-C1020D590U935-4F0-1E-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: 5553.9 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

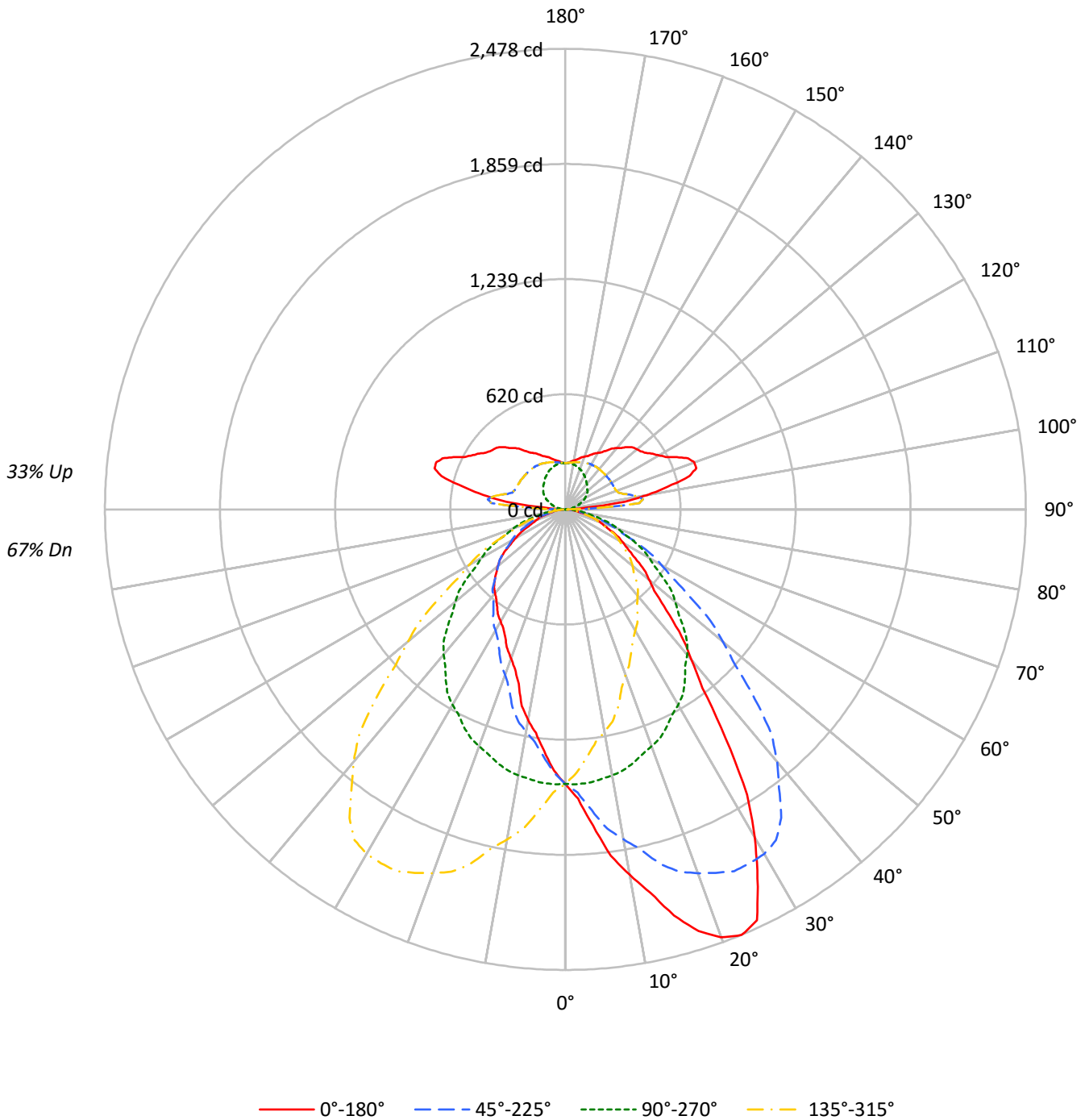
Input Watts (W): 48.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	11926	11926	11926	11926
5°	13834	11962	10573	11962
10°	16365	11910	9437	11910
15°	18904	11800	8109	11800
20°	21047	11649	7332	11649
25°	21727	11500	6807	11500
30°	19020	11320	6492	11320
35°	14807	11052	6300	11052
40°	11102	10745	6198	10745
45°	8766	10255	6142	10255
50°	7401	9688	5966	9688
55°	6450	9064	5645	9064
60°	5804	8418	4997	8418
65°	5117	7721	4298	7721
70°	4607	6996	3878	6996
75°	3862	6201	3306	6201
80°	3268	5286	3096	5286
85°	2760	4131	2760	4131



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	2.6
10°-20°	431.8	7.8
20°-30°	675.3	12.2
30°-40°	750.8	13.5
40°-50°	666.1	12.0
50°-60°	519.0	9.3
60°-70°	339.8	6.1
70°-80°	167.1	3.0
80°-90°	42.6	0.8
90°-100°	180.6	3.3
100°-110°	375.8	6.8
110°-120°	336.6	6.1
120°-130°	283.1	5.1
130°-140°	236.1	4.3
140°-150°	180.4	3.2
150°-160°	126.8	2.3
160°-170°	74.6	1.3
170°-180°	24.3	0.4
0°-30°	1250.3	22.5
0°-40°	2001.0	36.0
0°-60°	3186.1	57.4
0°-90°	3735.7	67.3
90°-120°	893.0	16.1
90°-150°	1592.6	28.7
90°-180°	1818.0	32.7
0°-180°	5553.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1477	1477	1477	1477	1477	
5°	1707	1476	1305	1476	1707	173
15°	2262	1412	970	1412	2262	643
25°	2439	1291	764	1291	2439	1082
35°	1502	1121	639	1121	1502	942
45°	768	898	538	898	768	608
55°	458	644	401	644	458	417
65°	268	404	225	404	268	269
75°	124	199	106	199	124	136
85°	30	45	30	45	30	34
90°	10	0	10	0	10	10
95°	120	16	120	16	120	186
105°	691	57	691	57	691	683
115°	664	101	664	101	664	659
125°	529	141	529	141	529	481
135°	474	168	474	168	474	365
145°	386	193	386	193	386	245
155°	324	220	324	220	324	151
165°	282	239	282	239	282	81
175°	254	250	254	250	254	25
180°	250	250	250	250	250	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1558.2	1562.5	1558.2	1557.8	1553.1	1551.6	1549.7	1543.5	1532.1	1525.4	1526.8
5°	1707.1	1721.9	1713.6	1712.4	1699.4	1686.3	1677.9	1658.9	1638.7	1625.0	1613.6
7.5°	1879.2	1887.7	1882.6	1874.2	1853.0	1841.0	1821.7	1796.6	1760.3	1732.5	1707.2
10°	1996.3	2003.5	2001.1	1985.6	1970.1	1938.6	1920.7	1885.7	1839.8	1803.5	1769.5
12.5°	2111.6	2119.2	2098.3	2098.9	2069.7	2044.8	2016.5	1972.3	1919.3	1872.5	1830.1
15°	2261.8	2252.3	2252.3	2240.4	2207.6	2173.2	2144.0	2097.6	2030.8	1974.9	1916.0
17.5°	2379.5	2382.7	2377.9	2349.8	2324.1	2288.4	2234.9	2180.7	2118.8	2043.8	1983.5
20°	2449.9	2449.9	2444.6	2425.5	2392.2	2354.1	2296.4	2237.4	2158.9	2083.3	2015.4
22.5°	2478.5	2480.4	2474.1	2458.3	2428.4	2391.2	2342.0	2282.2	2201.2	2116.1	2032.0
25°	2439.2	2450.5	2451.7	2447.5	2438.6	2416.0	2373.7	2312.4	2239.8	2147.5	2057.0
27.5°	2239.5	2253.8	2266.2	2286.8	2314.2	2328.5	2330.4	2299.2	2235.8	2147.1	2056.0
30°	2040.4	2052.3	2091.0	2141.6	2180.8	2216.6	2247.6	2255.8	2220.2	2140.4	2044.5
32.5°	1819.5	1835.7	1874.3	1928.7	1994.2	2054.7	2124.2	2159.6	2158.7	2110.8	2022.1
35°	1502.4	1514.2	1550.0	1607.1	1685.7	1775.6	1885.7	1971.3	2029.6	2025.5	1971.3
37.5°	1211.6	1225.0	1261.1	1308.5	1384.7	1496.0	1602.6	1720.6	1828.5	1889.1	1871.0
40°	1053.5	1054.1	1089.3	1138.1	1209.4	1306.5	1422.5	1553.5	1673.7	1771.9	1791.0
42.5°	928.8	928.8	952.1	1004.7	1056.2	1147.5	1258.3	1388.3	1529.0	1642.4	1692.9
45°	767.8	773.2	792.2	823.8	864.3	941.6	1030.3	1151.2	1308.9	1443.4	1527.3
47.5°	650.2	658.1	670.2	695.9	728.1	779.7	853.1	961.7	1089.9	1237.9	1357.4
50°	589.3	590.5	605.9	620.2	648.2	689.2	753.5	844.0	961.8	1104.1	1236.8
52.5°	536.9	536.7	546.0	564.0	586.8	618.8	670.7	753.0	857.6	985.1	1122.1
55°	458.3	461.3	468.5	482.7	500.0	522.6	563.7	625.6	707.7	816.7	941.1
57.5°	398.6	400.1	405.7	411.7	427.6	444.0	474.8	517.8	587.1	676.3	792.2
60°	359.5	360.1	361.9	370.8	383.3	398.8	419.7	455.9	514.3	595.8	687.5
62.5°	321.4	322.4	325.2	331.7	341.4	352.1	373.9	403.1	451.4	521.1	603.6
65°	267.9	268.5	272.6	275.0	282.8	292.2	308.3	328.0	361.3	419.7	482.2
67.5°	223.8	223.8	224.0	227.2	232.6	238.9	248.6	264.2	289.4	325.2	380.3
70°	195.2	195.2	196.4	198.2	201.2	206.6	211.9	223.8	242.3	271.4	313.7
72.5°	168.6	169.0	170.2	170.6	172.1	176.5	180.5	188.1	201.8	223.8	258.0
75°	123.8	125.6	128.5	131.0	133.9	133.4	137.5	142.2	146.5	159.5	179.2
77.5°	92.1	91.2	91.5	93.6	93.9	94.5	97.5	101.2	104.3	110.5	117.5
80°	70.3	70.3	72.0	72.6	72.0	72.6	75.6	77.4	78.6	80.9	87.5
82.5°	53.1	54.1	53.5	54.1	54.4	55.0	57.5	57.9	59.1	60.0	62.8
85°	29.8	30.4	30.9	29.8	29.8	29.8	30.9	31.5	32.7	32.1	33.3
87.5°	12.6	12.1	12.7	12.6	12.9	12.4	12.8	13.7	12.7	13.2	13.0
90°	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9	8.4	8.9	7.8
92.5°	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4	129.8	155.8	136.4
95°	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9	411.6	400.3	302.0
97.5°	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7	517.1	421.6	282.8
100°	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4	520.6	394.9	256.4
102.5°	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6	491.1	361.5	238.7
105°	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1	437.6	322.2	223.5
107.5°	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0	394.4	300.2	220.8
110°	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2	372.8	292.7	221.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5	360.6	289.2	223.9
115°	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6	349.2	287.3	228.4
117.5°	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4	344.1	286.8	233.2
120°	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0	341.4	286.8	236.8
122.5°	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2	338.2	286.5	240.3
125°	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1	333.0	285.9	245.6
127.5°	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3	326.1	284.7	249.8
130°	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5	321.7	284.4	253.0
132.5°	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2	317.8	284.0	255.7
135°	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9	311.9	283.4	259.8
137.5°	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5	306.8	283.3	262.3
140°	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6	304.0	282.9	264.2
142.5°	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2	301.7	282.9	265.8
145°	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3	297.6	281.9	266.7
147.5°	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9	294.0	280.2	267.2
150°	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1	291.3	279.0	267.2
152.5°	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7	288.1	277.0	266.4
155°	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2	283.4	274.1	265.2
157.5°	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2	278.6	271.0	264.0
160°	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9	275.1	268.6	262.8
162.5°	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6	271.9	266.3	261.6
165°	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6	266.7	262.8	259.3
167.5°	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8	262.0	259.2	257.0
170°	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3	258.8	256.8	255.4
172.5°	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1	256.1	254.5	253.8
175°	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9	253.0	251.9	251.9
177.5°	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2	250.8	250.4	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1522.1	1515.4	1512.1	1504.4	1495.4	1490.6	1486.3	1480.1	1472.1	1463.5	1457.3
5°	1599.3	1585.0	1567.2	1545.8	1526.7	1508.3	1492.2	1476.1	1457.7	1438.6	1419.6
7.5°	1678.6	1650.5	1620.1	1585.0	1550.9	1519.8	1491.3	1463.9	1432.9	1405.2	1379.9
10°	1733.9	1695.7	1653.5	1608.9	1564.2	1525.5	1487.5	1452.9	1414.8	1380.9	1352.3
12.5°	1778.7	1733.9	1683.0	1627.5	1573.7	1527.0	1483.2	1438.1	1394.8	1358.1	1319.9
15°	1852.9	1791.6	1723.1	1656.5	1586.8	1523.1	1464.2	1411.9	1362.4	1310.7	1274.4
17.5°	1903.9	1831.3	1748.0	1667.9	1585.6	1510.5	1442.5	1380.2	1323.2	1270.3	1227.1
20°	1934.4	1854.1	1761.9	1670.8	1578.5	1498.1	1425.0	1355.9	1297.0	1239.8	1195.2
22.5°	1951.5	1862.7	1761.9	1666.5	1570.9	1483.8	1403.5	1331.6	1267.5	1210.3	1160.9
25°	1957.1	1861.8	1758.9	1649.3	1544.5	1452.3	1369.0	1291.0	1219.6	1162.4	1110.1
27.5°	1949.5	1837.3	1731.8	1619.5	1511.4	1414.1	1326.6	1244.7	1173.2	1111.9	1058.2
30°	1938.0	1817.7	1704.7	1588.0	1478.5	1385.1	1292.8	1214.3	1139.8	1076.2	1022.0
32.5°	1913.2	1794.0	1672.3	1552.8	1441.8	1345.6	1258.0	1179.0	1106.0	1040.9	983.4
35°	1864.2	1743.4	1611.3	1488.7	1379.7	1279.7	1197.6	1121.4	1051.7	982.1	921.4
37.5°	1799.6	1676.1	1544.7	1410.4	1301.4	1206.9	1131.6	1060.1	992.1	928.5	861.3
40°	1738.6	1626.1	1490.4	1357.1	1245.2	1154.1	1084.5	1019.6	951.1	888.0	820.8
42.5°	1664.8	1569.0	1431.8	1298.0	1187.6	1099.8	1034.9	971.5	909.2	848.1	777.9
45°	1541.6	1469.0	1340.4	1211.9	1100.5	1013.7	954.2	898.2	843.4	785.1	719.0
47.5°	1400.4	1351.3	1240.3	1108.6	1005.6	927.5	870.0	824.2	777.9	719.6	661.7
50°	1302.3	1270.7	1163.6	1043.4	945.2	873.1	814.2	771.4	732.7	676.7	625.0
52.5°	1197.6	1180.8	1090.3	975.3	880.5	809.9	759.5	720.9	681.7	635.3	586.9
55°	1038.0	1047.0	970.2	870.8	781.5	722.0	676.1	644.0	610.7	571.4	533.9
57.5°	874.9	907.6	856.0	768.8	685.1	630.1	595.6	568.5	540.5	508.0	476.0
60°	777.3	804.7	775.6	698.8	625.6	574.4	542.3	521.4	493.4	463.6	439.3
62.5°	682.1	711.4	694.1	632.1	564.1	520.1	491.8	472.3	451.5	425.6	400.2
65°	562.5	581.5	573.2	530.4	482.2	444.6	418.4	404.2	385.1	366.1	343.5
67.5°	430.8	467.6	462.7	440.0	398.3	369.0	351.9	339.2	321.9	307.7	292.4
70°	354.1	388.1	387.4	369.0	346.4	319.0	307.1	296.4	280.9	267.3	254.8
72.5°	289.9	321.0	325.5	311.4	295.9	275.3	263.8	256.4	241.4	232.0	221.9
75°	202.9	225.6	231.5	231.5	224.4	213.7	203.5	198.8	188.1	179.8	173.8
77.5°	133.1	147.4	156.7	158.8	159.9	156.3	148.0	144.6	136.4	133.5	127.8
80°	94.0	103.6	114.3	117.9	120.8	119.7	116.1	113.7	106.0	103.0	100.6
82.5°	65.0	70.3	79.0	86.9	86.1	89.2	86.1	84.2	78.4	77.2	74.9
85°	33.9	34.5	35.7	41.1	44.1	45.2	45.8	44.6	42.9	42.9	38.7
87.5°	12.8	12.3	12.7	12.7	13.1	14.9	16.0	16.3	15.1	13.9	12.6
90°	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5	1.5	2.9	3.4
92.5°	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6	8.2	12.7	18.8
95°	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2	17.7	22.6	29.0
97.5°	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1	29.1	33.3	39.2
100°	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4	37.4	40.7	46.7
102.5°	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2	46.0	49.0	54.5
105°	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4	59.0	61.4	67.3
107.5°	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0	72.0	74.5	80.8
110°	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1	81.0	83.5	89.4





TEST NUMBER: P332963-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7	89.7	92.6	98.1
115°	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2	102.6	106.1	111.0
117.5°	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2	115.5	118.6	124.0
120°	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8	123.8	127.2	132.6
122.5°	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6	131.6	135.1	140.1
125°	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9	142.9	145.9	151.3
127.5°	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1	151.7	155.2	161.4
130°	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2	157.1	161.1	168.5
132.5°	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3	161.9	167.0	174.0
135°	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5	169.4	174.4	182.7
137.5°	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7	176.5	181.9	189.9
140°	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8	181.2	186.7	195.0
142.5°	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3	186.8	191.7	199.7
145°	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0	194.5	199.4	206.3
147.5°	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7	202.2	206.6	213.6
150°	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2	207.8	211.7	217.6
152.5°	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4	212.5	216.4	221.9
155°	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6	220.1	223.0	227.9
157.5°	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5	226.5	229.3	233.1
160°	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8	230.8	232.8	236.3
162.5°	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8	234.4	235.9	239.0
165°	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2	239.2	240.1	242.6
167.5°	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6	243.1	243.6	245.5
170°	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6	245.1	245.6	247.0
172.5°	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5	247.0	247.1	248.2
175°	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5	249.0	249.0	249.5
177.5°	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4	250.0	249.6	250.0
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332963-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1450.6	1445.9	1439.7	1432.5	1424.0	1416.3	1413.1	1415.9	1417.3	1413.5	1413.1
5°	1406.5	1391.6	1379.7	1361.8	1347.6	1335.7	1327.3	1323.8	1324.9	1315.4	1313.0
7.5°	1356.8	1339.2	1319.7	1298.5	1278.8	1261.3	1252.1	1247.1	1237.0	1232.7	1225.5
10°	1324.9	1301.1	1282.1	1257.1	1234.5	1213.7	1203.5	1195.2	1185.1	1180.3	1170.2
12.5°	1292.1	1264.5	1243.5	1217.5	1194.5	1169.3	1159.7	1144.3	1128.4	1118.4	1105.4
15°	1245.8	1212.5	1186.9	1155.9	1128.5	1099.9	1074.4	1045.8	1035.1	1012.4	999.4
17.5°	1191.6	1157.8	1126.1	1084.6	1042.3	1006.9	979.6	952.2	935.8	921.4	914.7
20°	1155.9	1125.0	1080.9	1032.7	985.7	946.4	924.4	906.5	888.6	878.6	871.4
22.5°	1122.1	1082.5	1031.4	979.4	932.4	901.6	883.0	864.6	850.1	840.4	831.0
25°	1065.4	1013.7	959.5	900.0	867.8	841.0	820.8	805.9	797.0	784.5	779.7
27.5°	1007.2	944.5	884.8	844.7	811.2	786.8	769.1	757.9	746.7	738.7	732.5
30°	962.4	898.8	845.2	807.1	773.2	752.9	738.7	725.6	716.6	710.1	705.3
32.5°	918.2	854.5	809.5	768.5	741.8	722.0	706.8	697.0	690.0	681.5	678.6
35°	854.1	797.5	758.3	721.4	694.1	676.1	664.3	654.1	648.2	645.8	644.0
37.5°	792.6	746.3	704.0	673.8	649.4	635.3	621.3	616.3	612.3	608.0	609.8
40°	753.5	710.1	672.6	640.4	620.8	605.4	597.0	591.1	587.5	587.5	587.5
42.5°	719.7	677.3	640.7	611.9	592.2	579.1	569.9	564.8	563.7	563.2	566.0
45°	667.3	627.9	591.1	567.2	550.6	537.4	532.1	528.0	528.0	530.4	530.9
47.5°	615.2	578.4	548.8	522.1	506.9	498.7	494.0	491.9	492.1	494.5	497.2
50°	583.3	547.0	517.8	494.0	479.7	472.0	467.9	466.7	467.9	467.9	472.0
52.5°	548.5	516.1	487.3	467.4	451.2	443.9	441.6	440.0	440.7	442.6	444.4
55°	497.6	468.5	441.1	422.0	410.1	405.4	400.0	400.5	399.4	400.5	400.5
57.5°	446.5	420.3	394.9	379.8	369.3	362.4	356.5	358.2	356.5	356.2	355.2
60°	413.7	385.1	364.9	351.2	339.2	333.3	328.0	329.2	327.4	326.1	323.8
62.5°	378.0	354.1	334.8	321.7	312.1	305.2	299.9	298.7	294.5	290.5	285.2
65°	326.1	306.5	289.3	276.8	267.9	262.5	258.3	254.8	245.8	236.3	231.5
67.5°	275.9	261.7	245.6	235.0	227.7	220.7	212.8	206.6	198.3	193.1	190.1
70°	243.4	229.7	216.0	206.0	198.2	191.7	182.7	178.6	172.6	170.2	167.3
72.5°	212.5	199.8	187.0	177.9	169.6	164.5	157.5	153.3	150.7	149.7	146.8
75°	165.5	155.3	145.9	137.5	131.0	127.3	124.4	121.4	120.2	114.9	111.9
77.5°	120.7	114.1	108.1	102.1	97.5	95.1	89.4	85.9	83.9	81.5	80.8
80°	94.0	89.3	83.3	79.7	73.2	70.9	68.4	67.8	67.2	66.6	66.0
82.5°	70.7	66.0	60.0	57.9	56.1	54.7	53.2	52.6	52.0	52.3	52.3
85°	35.7	33.3	33.3	32.7	32.1	31.5	30.9	30.9	30.4	30.9	30.4
87.5°	12.7	12.2	12.8	11.9	12.5	12.7	12.1	12.2	12.8	12.0	12.0
90°	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9	9.3	9.8	9.8
92.5°	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4	72.6	57.8	48.0
95°	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9	287.8	222.0	174.4
97.5°	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7	509.5	461.4	410.1
100°	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4	602.2	578.1	541.7
102.5°	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6	638.3	645.3	630.2
105°	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1	635.1	683.7	703.9
107.5°	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0	584.4	653.0	696.7
110°	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2	545.2	616.4	670.5



TEST NUMBER: P332963-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5	510.6	577.9	631.9
115°	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6	471.1	528.5	575.7
117.5°	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4	448.4	493.6	533.6
120°	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0	438.6	477.9	512.7
122.5°	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2	432.3	468.0	498.6
125°	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1	422.4	456.2	483.3
127.5°	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3	410.7	444.5	470.1
130°	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5	401.3	434.6	460.7
132.5°	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2	390.6	423.3	449.3
135°	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9	374.8	404.7	429.3
137.5°	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5	359.6	384.8	407.0
140°	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6	349.7	371.8	392.4
142.5°	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2	341.5	360.4	378.3
145°	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3	330.0	344.8	358.5
147.5°	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9	320.2	332.0	342.9
150°	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1	314.4	324.2	333.0
152.5°	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7	308.4	317.5	324.8
155°	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2	300.1	307.5	313.3
157.5°	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2	291.9	298.0	302.7
160°	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9	286.4	291.7	295.7
162.5°	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6	281.2	285.4	289.0
165°	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6	273.5	277.0	279.5
167.5°	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8	267.1	269.8	271.3
170°	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3	262.8	264.8	266.2
172.5°	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1	259.2	260.5	261.5
175°	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9	254.4	255.4	255.4
177.5°	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2	251.6	251.6	251.9
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332963-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1410.1	1411.1	1407.8	1406.9	1407.8	1411.1	1410.1	1413.1	1413.5	1417.3	1415.9
5°	1308.3	1307.1	1304.1	1304.7	1304.1	1307.1	1308.3	1313.0	1315.4	1324.9	1323.8
7.5°	1221.2	1216.5	1217.8	1213.1	1217.8	1216.5	1221.2	1225.5	1232.7	1237.0	1247.1
10°	1167.8	1161.2	1155.9	1151.2	1155.9	1161.2	1167.8	1170.2	1180.3	1185.1	1195.2
12.5°	1094.9	1089.3	1082.1	1083.6	1082.1	1089.3	1094.9	1105.4	1118.4	1128.4	1144.3
15°	991.6	982.7	968.5	970.2	968.5	982.7	991.6	999.4	1012.4	1035.1	1045.8
17.5°	904.1	904.2	897.7	899.2	897.7	904.2	904.1	914.7	921.4	935.8	952.2
20°	858.9	854.7	855.3	853.5	855.3	854.7	858.9	871.4	878.6	888.6	906.5
22.5°	827.5	822.3	818.2	814.5	818.2	822.3	827.5	831.0	840.4	850.1	864.6
25°	774.4	770.8	765.4	764.2	765.4	770.8	774.4	779.7	784.5	797.0	805.9
27.5°	727.7	727.0	724.9	722.1	724.9	727.0	727.7	732.5	738.7	746.7	757.9
30°	700.6	699.4	698.2	696.4	698.2	699.4	700.6	705.3	710.1	716.6	725.6
32.5°	676.3	675.5	674.3	674.5	674.3	675.5	676.3	678.6	681.5	690.0	697.0
35°	641.6	641.0	639.9	639.3	639.9	641.0	641.6	644.0	645.8	648.2	654.1
37.5°	609.2	610.8	610.1	609.9	610.1	610.8	609.2	609.8	608.0	612.3	616.3
40°	586.9	587.5	588.7	588.1	588.7	587.5	586.9	587.5	587.5	587.5	591.1
42.5°	568.3	568.4	570.1	568.1	570.1	568.4	568.3	566.0	563.2	563.7	564.8
45°	535.1	538.6	538.0	538.0	538.0	538.6	535.1	530.9	530.4	528.0	528.0
47.5°	498.8	501.9	502.7	502.6	502.7	501.9	498.8	497.2	494.5	492.1	491.9
50°	475.0	473.8	475.6	475.0	475.6	473.8	475.0	472.0	467.9	467.9	466.7
52.5°	445.9	446.2	446.1	445.5	446.1	446.2	445.9	444.4	442.6	440.7	440.0
55°	401.1	401.7	400.5	401.1	400.5	401.7	401.1	400.5	400.5	399.4	400.5
57.5°	352.6	349.7	350.9	349.5	350.9	349.7	352.6	355.2	356.2	356.5	358.2
60°	317.9	313.1	311.9	309.5	311.9	313.1	317.9	323.8	326.1	327.4	329.2
62.5°	278.8	275.4	271.4	273.3	271.4	275.4	278.8	285.2	290.5	294.5	298.7
65°	226.8	224.4	222.6	225.0	222.6	224.4	226.8	231.5	236.3	245.8	254.8
67.5°	187.7	186.4	186.4	185.2	186.4	186.4	187.7	190.1	193.1	198.3	206.6
70°	167.3	165.5	165.5	164.3	165.5	165.5	167.3	167.3	170.2	172.6	178.6
72.5°	146.3	144.5	145.0	144.3	145.0	144.5	146.3	146.8	149.7	150.7	153.3
75°	108.3	105.4	105.4	106.0	105.4	105.4	108.3	111.9	114.9	120.2	121.4
77.5°	80.8	80.2	81.1	80.0	81.1	80.2	80.8	80.8	81.5	83.9	85.9
80°	66.0	65.4	64.9	66.6	64.9	65.4	66.0	66.0	66.6	67.2	67.8
82.5°	51.3	51.2	51.1	53.3	51.1	51.2	51.3	52.3	52.3	52.0	52.6
85°	30.9	29.8	30.9	29.8	30.9	29.8	30.9	30.4	30.9	30.4	30.9
87.5°	13.0	12.7	12.1	12.6	12.1	12.7	13.0	12.0	12.0	12.8	12.2
90°	10.3	10.8	10.3	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9
92.5°	42.1	39.5	37.8	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4
95°	150.3	135.1	126.2	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9
97.5°	374.9	345.3	330.5	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7
100°	499.0	469.1	454.3	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4
102.5°	603.9	582.2	566.7	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6
105°	704.8	700.9	694.0	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1
107.5°	721.0	732.2	737.1	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0
110°	705.3	725.9	734.8	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2



TEST NUMBER: P332963-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	671.5	696.5	708.9	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5
115°	614.4	643.9	659.6	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6
117.5°	566.7	591.4	607.3	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4
120°	540.8	562.4	575.1	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0
122.5°	522.3	540.8	551.6	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2
125°	502.9	517.2	526.5	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1
127.5°	489.9	502.6	510.4	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3
130°	480.9	493.1	501.0	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5
132.5°	469.1	482.9	490.3	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2
135°	448.9	462.7	470.5	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9
137.5°	425.3	438.9	445.4	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5
140°	409.7	420.4	427.3	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6
142.5°	393.5	403.6	409.7	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2
145°	370.8	379.2	384.1	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3
147.5°	351.9	359.0	362.7	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9
150°	340.9	347.2	350.2	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1
152.5°	331.4	336.7	338.4	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7
155°	318.3	322.2	323.6	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2
157.5°	306.5	309.4	310.3	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2
160°	298.6	301.6	302.0	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9
162.5°	291.2	294.1	294.6	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6
165°	281.5	283.4	282.9	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6
167.5°	272.3	273.5	273.5	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8
170°	267.2	267.7	267.2	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3
172.5°	262.1	262.6	262.1	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1
175°	255.4	256.4	255.4	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9
177.5°	251.6	251.9	251.2	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332963-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1413.1	1416.3	1424.0	1432.5	1439.7	1445.9	1450.6	1457.3	1463.5	1472.1	1480.1
5°	1327.3	1335.7	1347.6	1361.8	1379.7	1391.6	1406.5	1419.6	1438.6	1457.7	1476.1
7.5°	1252.1	1261.3	1278.8	1298.5	1319.7	1339.2	1356.8	1379.9	1405.2	1432.9	1463.9
10°	1203.5	1213.7	1234.5	1257.1	1282.1	1301.1	1324.9	1352.3	1380.9	1414.8	1452.9
12.5°	1159.7	1169.3	1194.5	1217.5	1243.5	1264.5	1292.1	1319.9	1358.1	1394.8	1438.1
15°	1074.4	1099.9	1128.5	1155.9	1186.9	1212.5	1245.8	1274.4	1310.7	1362.4	1411.9
17.5°	979.6	1006.9	1042.3	1084.6	1126.1	1157.8	1191.6	1227.1	1270.3	1323.2	1380.2
20°	924.4	946.4	985.7	1032.7	1080.9	1125.0	1155.9	1195.2	1239.8	1297.0	1355.9
22.5°	883.0	901.6	932.4	979.4	1031.4	1082.5	1122.1	1160.9	1210.3	1267.5	1331.6
25°	820.8	841.0	867.8	900.0	959.5	1013.7	1065.4	1110.1	1162.4	1219.6	1291.0
27.5°	769.1	786.8	811.2	844.7	884.8	944.5	1007.2	1058.2	1111.9	1173.2	1244.7
30°	738.7	752.9	773.2	807.1	845.2	898.8	962.4	1022.0	1076.2	1139.8	1214.3
32.5°	706.8	722.0	741.8	768.5	809.5	854.5	918.2	983.4	1040.9	1106.0	1179.0
35°	664.3	676.1	694.1	721.4	758.3	797.5	854.1	921.4	982.1	1051.7	1121.4
37.5°	621.3	635.3	649.4	673.8	704.0	746.3	792.6	861.3	928.5	992.1	1060.1
40°	597.0	605.4	620.8	640.4	672.6	710.1	753.5	820.8	888.0	951.1	1019.6
42.5°	569.9	579.1	592.2	611.9	640.7	677.3	719.7	777.9	848.1	909.2	971.5
45°	532.1	537.4	550.6	567.2	591.1	627.9	667.3	719.0	785.1	843.4	898.2
47.5°	494.0	498.7	506.9	522.1	548.8	578.4	615.2	661.7	719.6	777.9	824.2
50°	467.9	472.0	479.7	494.0	517.8	547.0	583.3	625.0	676.7	732.7	771.4
52.5°	441.6	443.9	451.2	467.4	487.3	516.1	548.5	586.9	635.3	681.7	720.9
55°	400.0	405.4	410.1	422.0	441.1	468.5	497.6	533.9	571.4	610.7	644.0
57.5°	356.5	362.4	369.3	379.8	394.9	420.3	446.5	476.0	508.0	540.5	568.5
60°	328.0	333.3	339.2	351.2	364.9	385.1	413.7	439.3	463.6	493.4	521.4
62.5°	299.9	305.2	312.1	321.7	334.8	354.1	378.0	400.2	425.6	451.5	472.3
65°	258.3	262.5	267.9	276.8	289.3	306.5	326.1	343.5	366.1	385.1	404.2
67.5°	212.8	220.7	227.7	235.0	245.6	261.7	275.9	292.4	307.7	321.9	339.2
70°	182.7	191.7	198.2	206.0	216.0	229.7	243.4	254.8	267.3	280.9	296.4
72.5°	157.5	164.5	169.6	177.9	187.0	199.8	212.5	221.9	232.0	241.4	256.4
75°	124.4	127.3	131.0	137.5	145.9	155.3	165.5	173.8	179.8	188.1	198.8
77.5°	89.4	95.1	97.5	102.1	108.1	114.1	120.7	127.8	133.5	136.4	144.6
80°	68.4	70.9	73.2	79.7	83.3	89.3	94.0	100.6	103.0	106.0	113.7
82.5°	53.2	54.7	56.1	57.9	60.0	66.0	70.7	74.9	77.2	78.4	84.2
85°	30.9	31.5	32.1	32.7	33.3	33.3	35.7	38.7	42.9	42.9	44.6
87.5°	12.1	12.7	12.5	11.9	12.8	12.2	12.7	12.6	13.9	15.1	16.3
90°	8.4	8.9	7.8	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5
92.5°	129.8	155.8	136.4	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6
95°	411.6	400.3	302.0	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2
97.5°	517.1	421.6	282.8	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1
100°	520.6	394.9	256.4	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4
102.5°	491.1	361.5	238.7	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2
105°	437.6	322.2	223.5	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4
107.5°	394.4	300.2	220.8	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0
110°	372.8	292.7	221.5	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1



TEST NUMBER: P332963-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.6	289.2	223.9	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7
115°	349.2	287.3	228.4	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2
117.5°	344.1	286.8	233.2	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2
120°	341.4	286.8	236.8	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8
122.5°	338.2	286.5	240.3	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6
125°	333.0	285.9	245.6	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9
127.5°	326.1	284.7	249.8	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1
130°	321.7	284.4	253.0	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2
132.5°	317.8	284.0	255.7	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3
135°	311.9	283.4	259.8	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5
137.5°	306.8	283.3	262.3	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7
140°	304.0	282.9	264.2	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8
142.5°	301.7	282.9	265.8	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3
145°	297.6	281.9	266.7	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0
147.5°	294.0	280.2	267.2	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7
150°	291.3	279.0	267.2	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2
152.5°	288.1	277.0	266.4	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4
155°	283.4	274.1	265.2	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6
157.5°	278.6	271.0	264.0	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5
160°	275.1	268.6	262.8	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8
162.5°	271.9	266.3	261.6	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8
165°	266.7	262.8	259.3	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2
167.5°	262.0	259.2	257.0	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6
170°	258.8	256.8	255.4	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6
172.5°	256.1	254.5	253.8	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5
175°	253.0	251.9	251.9	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5
177.5°	250.8	250.4	250.4	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0





TEST NUMBER: P332963-935

CATALOG NUMBER: SA4XXRDIP-C1020D590U935-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1486.3	1490.6	1495.4	1504.4	1512.1	1515.4	1522.1	1526.8	1525.4	1532.1	1543.5
5°	1492.2	1508.3	1526.7	1545.8	1567.2	1585.0	1599.3	1613.6	1625.0	1638.7	1658.9
7.5°	1491.3	1519.8	1550.9	1585.0	1620.1	1650.5	1678.6	1707.2	1732.5	1760.3	1796.6
10°	1487.5	1525.5	1564.2	1608.9	1653.5	1695.7	1733.9	1769.5	1803.5	1839.8	1885.7
12.5°	1483.2	1527.0	1573.7	1627.5	1683.0	1733.9	1778.7	1830.1	1872.5	1919.3	1972.3
15°	1464.2	1523.1	1586.8	1656.5	1723.1	1791.6	1852.9	1916.0	1974.9	2030.8	2097.6
17.5°	1442.5	1510.5	1585.6	1667.9	1748.0	1831.3	1903.9	1983.5	2043.8	2118.8	2180.7
20°	1425.0	1498.1	1578.5	1670.8	1761.9	1854.1	1934.4	2015.4	2083.3	2158.9	2237.4
22.5°	1403.5	1483.8	1570.9	1666.5	1761.9	1862.7	1951.5	2032.0	2116.1	2201.2	2282.2
25°	1369.0	1452.3	1544.5	1649.3	1758.9	1861.8	1957.1	2057.0	2147.5	2239.8	2312.4
27.5°	1326.6	1414.1	1511.4	1619.5	1731.8	1837.3	1949.5	2056.0	2147.1	2235.8	2299.2
30°	1292.8	1385.1	1478.5	1588.0	1704.7	1817.7	1938.0	2044.5	2140.4	2220.2	2255.8
32.5°	1258.0	1345.6	1441.8	1552.8	1672.3	1794.0	1913.2	2022.1	2110.8	2158.7	2159.6
35°	1197.6	1279.7	1379.7	1488.7	1611.3	1743.4	1864.2	1971.3	2025.5	2029.6	1971.3
37.5°	1131.6	1206.9	1301.4	1410.4	1544.7	1676.1	1799.6	1871.0	1889.1	1828.5	1720.6
40°	1084.5	1154.1	1245.2	1357.1	1490.4	1626.1	1738.6	1791.0	1771.9	1673.7	1553.5
42.5°	1034.9	1099.8	1187.6	1298.0	1431.8	1569.0	1664.8	1692.9	1642.4	1529.0	1388.3
45°	954.2	1013.7	1100.5	1211.9	1340.4	1469.0	1541.6	1527.3	1443.4	1308.9	1151.2
47.5°	870.0	927.5	1005.6	1108.6	1240.3	1351.3	1400.4	1357.4	1237.9	1089.9	961.7
50°	814.2	873.1	945.2	1043.4	1163.6	1270.7	1302.3	1236.8	1104.1	961.8	844.0
52.5°	759.5	809.9	880.5	975.3	1090.3	1180.8	1197.6	1122.1	985.1	857.6	753.0
55°	676.1	722.0	781.5	870.8	970.2	1047.0	1038.0	941.1	816.7	707.7	625.6
57.5°	595.6	630.1	685.1	768.8	856.0	907.6	874.9	792.2	676.3	587.1	517.8
60°	542.3	574.4	625.6	698.8	775.6	804.7	777.3	687.5	595.8	514.3	455.9
62.5°	491.8	520.1	564.1	632.1	694.1	711.4	682.1	603.6	521.1	451.4	403.1
65°	418.4	444.6	482.2	530.4	573.2	581.5	562.5	482.2	419.7	361.3	328.0
67.5°	351.9	369.0	398.3	440.0	462.7	467.6	430.8	380.3	325.2	289.4	264.2
70°	307.1	319.0	346.4	369.0	387.4	388.1	354.1	313.7	271.4	242.3	223.8
72.5°	263.8	275.3	295.9	311.4	325.5	321.0	289.9	258.0	223.8	201.8	188.1
75°	203.5	213.7	224.4	231.5	231.5	225.6	202.9	179.2	159.5	146.5	142.2
77.5°	148.0	156.3	159.9	158.8	156.7	147.4	133.1	117.5	110.5	104.3	101.2
80°	116.1	119.7	120.8	117.9	114.3	103.6	94.0	87.5	80.9	78.6	77.4
82.5°	86.1	89.2	86.1	86.9	79.0	70.3	65.0	62.8	60.0	59.1	57.9
85°	45.8	45.2	44.1	41.1	35.7	34.5	33.9	33.3	32.1	32.7	31.5
87.5°	16.0	14.9	13.1	12.7	12.7	12.3	12.8	13.0	13.2	12.7	13.7
90°	1.5	2.9	3.4	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9
92.5°	8.2	12.7	18.8	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4
95°	17.7	22.6	29.0	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9
97.5°	29.1	33.3	39.2	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7
100°	37.4	40.7	46.7	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4
102.5°	46.0	49.0	54.5	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6
105°	59.0	61.4	67.3	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1
107.5°	72.0	74.5	80.8	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0
110°	81.0	83.5	89.4	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.7	92.6	98.1	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5
115°	102.6	106.1	111.0	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6
117.5°	115.5	118.6	124.0	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4
120°	123.8	127.2	132.6	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0
122.5°	131.6	135.1	140.1	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2
125°	142.9	145.9	151.3	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1
127.5°	151.7	155.2	161.4	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3
130°	157.1	161.1	168.5	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5
132.5°	161.9	167.0	174.0	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2
135°	169.4	174.4	182.7	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9
137.5°	176.5	181.9	189.9	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5
140°	181.2	186.7	195.0	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6
142.5°	186.8	191.7	199.7	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2
145°	194.5	199.4	206.3	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3
147.5°	202.2	206.6	213.6	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9
150°	207.8	211.7	217.6	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1
152.5°	212.5	216.4	221.9	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7
155°	220.1	223.0	227.9	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2
157.5°	226.5	229.3	233.1	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2
160°	230.8	232.8	236.3	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9
162.5°	234.4	235.9	239.0	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6
165°	239.2	240.1	242.6	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6
167.5°	243.1	243.6	245.5	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8
170°	245.1	245.6	247.0	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3
172.5°	247.0	247.1	248.2	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1
175°	249.0	249.0	249.5	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9
177.5°	250.0	249.6	250.0	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1549.7	1551.6	1553.1	1557.8	1558.2	1562.5	1558.2
5°	1677.9	1686.3	1699.4	1712.4	1713.6	1721.9	1707.1
7.5°	1821.7	1841.0	1853.0	1874.2	1882.6	1887.7	1879.2
10°	1920.7	1938.6	1970.1	1985.6	2001.1	2003.5	1996.3
12.5°	2016.5	2044.8	2069.7	2098.9	2098.3	2119.2	2111.6
15°	2144.0	2173.2	2207.6	2240.4	2252.3	2252.3	2261.8
17.5°	2234.9	2288.4	2324.1	2349.8	2377.9	2382.7	2379.5
20°	2296.4	2354.1	2392.2	2425.5	2444.6	2449.9	2449.9
22.5°	2342.0	2391.2	2428.4	2458.3	2474.1	2480.4	2478.5
25°	2373.7	2416.0	2438.6	2447.5	2451.7	2450.5	2439.2
27.5°	2330.4	2328.5	2314.2	2286.8	2266.2	2253.8	2239.5
30°	2247.6	2216.6	2180.8	2141.6	2091.0	2052.3	2040.4
32.5°	2124.2	2054.7	1994.2	1928.7	1874.3	1835.7	1819.5
35°	1885.7	1775.6	1685.7	1607.1	1550.0	1514.2	1502.4
37.5°	1602.6	1496.0	1384.7	1308.5	1261.1	1225.0	1211.6
40°	1422.5	1306.5	1209.4	1138.1	1089.3	1054.1	1053.5
42.5°	1258.3	1147.5	1056.2	1004.7	952.1	928.8	928.8
45°	1030.3	941.6	864.3	823.8	792.2	773.2	767.8
47.5°	853.1	779.7	728.1	695.9	670.2	658.1	650.2
50°	753.5	689.2	648.2	620.2	605.9	590.5	589.3
52.5°	670.7	618.8	586.8	564.0	546.0	536.7	536.9
55°	563.7	522.6	500.0	482.7	468.5	461.3	458.3
57.5°	474.8	444.0	427.6	411.7	405.7	400.1	398.6
60°	419.7	398.8	383.3	370.8	361.9	360.1	359.5
62.5°	373.9	352.1	341.4	331.7	325.2	322.4	321.4
65°	308.3	292.2	282.8	275.0	272.6	268.5	267.9
67.5°	248.6	238.9	232.6	227.2	224.0	223.8	223.8
70°	211.9	206.6	201.2	198.2	196.4	195.2	195.2
72.5°	180.5	176.5	172.1	170.6	170.2	169.0	168.6
75°	137.5	133.4	133.9	131.0	128.5	125.6	123.8
77.5°	97.5	94.5	93.9	93.6	91.5	91.2	92.1
80°	75.6	72.6	72.0	72.6	72.0	70.3	70.3
82.5°	57.5	55.0	54.4	54.1	53.5	54.1	53.1
85°	30.9	29.8	29.8	29.8	30.9	30.4	29.8
87.5°	12.8	12.4	12.9	12.6	12.7	12.1	12.6
90°	9.3	9.8	9.8	10.3	10.8	10.3	10.3
92.5°	72.6	57.8	48.0	42.1	39.5	37.8	37.8
95°	287.8	222.0	174.4	150.3	135.1	126.2	119.9
97.5°	509.5	461.4	410.1	374.9	345.3	330.5	320.3
100°	602.2	578.1	541.7	499.0	469.1	454.3	450.4
102.5°	638.3	645.3	630.2	603.9	582.2	566.7	563.5
105°	635.1	683.7	703.9	704.8	700.9	694.0	691.0
107.5°	584.4	653.0	696.7	721.0	732.2	737.1	738.4
110°	545.2	616.4	670.5	705.3	725.9	734.8	739.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	510.6	577.9	631.9	671.5	696.5	708.9	716.0
115°	471.1	528.5	575.7	614.4	643.9	659.6	663.6
117.5°	448.4	493.6	533.6	566.7	591.4	607.3	610.4
120°	438.6	477.9	512.7	540.8	562.4	575.1	580.6
122.5°	432.3	468.0	498.6	522.3	540.8	551.6	557.0
125°	422.4	456.2	483.3	502.9	517.2	526.5	529.4
127.5°	410.7	444.5	470.1	489.9	502.6	510.4	513.3
130°	401.3	434.6	460.7	480.9	493.1	501.0	503.9
132.5°	390.6	423.3	449.3	469.1	482.9	490.3	493.4
135°	374.8	404.7	429.3	448.9	462.7	470.5	473.5
137.5°	359.6	384.8	407.0	425.3	438.9	445.4	448.9
140°	349.7	371.8	392.4	409.7	420.4	427.3	431.3
142.5°	341.5	360.4	378.3	393.5	403.6	409.7	412.3
145°	330.0	344.8	358.5	370.8	379.2	384.1	386.5
147.5°	320.2	332.0	342.9	351.9	359.0	362.7	363.7
150°	314.4	324.2	333.0	340.9	347.2	350.2	350.7
152.5°	308.4	317.5	324.8	331.4	336.7	338.4	338.9
155°	300.1	307.5	313.3	318.3	322.2	323.6	323.6
157.5°	291.9	298.0	302.7	306.5	309.4	310.3	310.3
160°	286.4	291.7	295.7	298.6	301.6	302.0	302.0
162.5°	281.2	285.4	289.0	291.2	294.1	294.6	294.2
165°	273.5	277.0	279.5	281.5	283.4	282.9	282.4
167.5°	267.1	269.8	271.3	272.3	273.5	273.5	273.1
170°	262.8	264.8	266.2	267.2	267.7	267.2	267.2
172.5°	259.2	260.5	261.5	262.1	262.6	262.1	261.3
175°	254.4	255.4	255.4	255.4	256.4	255.4	254.4
177.5°	251.6	251.6	251.9	251.6	251.9	251.2	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0

(END OF REPORT)