

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: P332997-935

Luminaire Tested: **SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332997-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

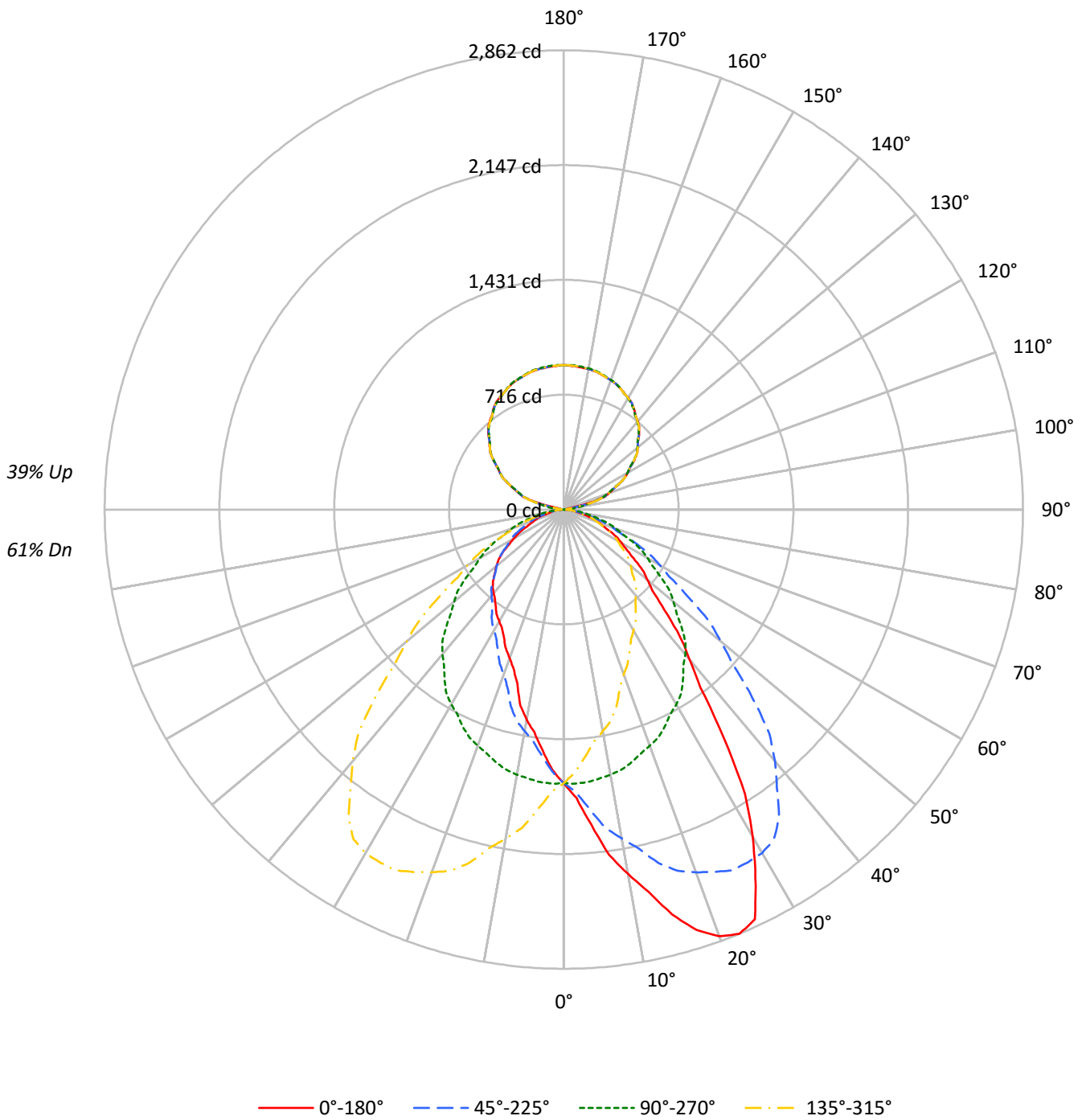
Lumens per Lamp: N/A  
Luminaire Lumens: 7099.7 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 60.7  
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	66	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	55	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	40	35	40	35	32	35	32	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°	13774	13774	13774	13774
5°	15977	13816	12211	13816
10°	18901	13755	10899	13755
15°	21833	13628	9365	13628
20°	24308	13454	8469	13454
25°	25093	13281	7863	13281
30°	21967	13073	7498	13073
35°	17100	12764	7276	12764
40°	12823	12410	7158	12410
45°	10123	11843	7096	11843
50°	8547	11189	6889	11189
55°	7450	10469	6521	10469
60°	6704	9723	5772	9723
65°	5910	8915	4963	8915
70°	5323	8080	4480	8080
75°	4460	7162	3815	7162
80°	3770	6104	3580	6104
85°	3186	4780	3186	4780



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.3	2.3
10°-20°	498.7	7.0
20°-30°	780.0	11.0
30°-40°	867.1	12.2
40°-50°	769.3	10.8
50°-60°	599.5	8.4
60°-70°	392.5	5.5
70°-80°	193.0	2.7
80°-90°	50.2	0.7
90°-100°	30.8	0.4
100°-110°	196.3	2.8
110°-120°	375.5	5.3
120°-130°	476.7	6.7
130°-140°	510.0	7.2
140°-150°	476.9	6.7
150°-160°	384.6	5.4
160°-170°	248.0	3.5
170°-180°	85.5	1.2
0°-30°	1444.0	20.3
0°-40°	2311.0	32.6
0°-60°	3679.8	51.8
0°-90°	4315.5	60.8
90°-120°	602.6	8.5
90°-150°	2066.1	29.1
90°-180°	2784.0	39.2
0°-180°	7099.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1972	1705	1507	1705	1972	199
15°	2612	1631	1120	1631	2612	743
25°	2817	1491	883	1491	2817	1250
35°	1735	1295	738	1295	1735	1088
45°	887	1037	622	1037	887	702
55°	529	744	463	744	529	481
65°	309	467	260	467	309	311
75°	143	230	122	230	143	157
85°	34	52	34	52	34	39
90°	20	2	20	2	20	10
95°	20	37	20	37	20	16
105°	192	203	192	203	192	167
115°	381	378	381	378	381	377
125°	536	532	536	532	536	477
135°	664	660	664	660	664	511
145°	765	761	765	761	765	478
155°	833	834	833	834	833	384
165°	876	880	876	880	876	247
175°	895	900	895	900	895	85
180°	900	900	900	900	900	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1799.7	1804.7	1799.7	1799.1	1793.6	1792.0	1789.8	1782.6	1769.4	1761.8	1763.4
5°	1971.5	1988.7	1979.1	1977.7	1962.6	1947.5	1937.9	1915.9	1892.5	1876.7	1863.6
7.5°	2170.3	2180.2	2174.2	2164.6	2140.1	2126.2	2103.9	2074.9	2033.0	2001.0	1971.7
10°	2305.7	2313.9	2311.2	2293.3	2275.4	2238.9	2218.4	2177.8	2124.9	2082.9	2043.8
12.5°	2438.7	2447.6	2423.4	2424.1	2390.3	2361.6	2328.9	2277.9	2216.7	2162.7	2113.6
15°	2612.3	2601.3	2601.3	2587.5	2549.7	2509.8	2476.1	2422.5	2345.5	2280.9	2212.9
17.5°	2748.1	2751.9	2746.2	2713.9	2684.2	2642.9	2581.2	2518.6	2447.1	2360.3	2290.8
20°	2829.5	2829.5	2823.3	2801.3	2762.8	2718.8	2652.1	2584.0	2493.3	2406.0	2327.6
22.5°	2862.5	2864.6	2857.4	2839.2	2804.6	2761.7	2704.9	2635.8	2542.3	2443.9	2346.9
25°	2817.1	2830.2	2831.5	2826.7	2816.4	2790.2	2741.5	2670.6	2586.8	2480.3	2375.8
27.5°	2586.4	2602.9	2617.4	2641.1	2672.7	2689.2	2691.4	2655.4	2582.2	2479.7	2374.6
30°	2356.5	2370.2	2414.9	2473.4	2518.8	2560.0	2595.7	2605.4	2564.1	2472.0	2361.3
32.5°	2101.4	2120.0	2164.7	2227.6	2303.2	2373.0	2453.3	2494.2	2493.2	2437.9	2335.5
35°	1735.1	1748.9	1790.1	1856.1	1946.8	2050.6	2177.8	2276.7	2344.2	2339.3	2276.7
37.5°	1399.3	1414.9	1456.6	1511.2	1599.2	1727.8	1850.8	1987.2	2111.8	2181.8	2160.9
40°	1216.8	1217.5	1258.0	1314.4	1396.9	1508.9	1643.0	1794.2	1933.0	2046.5	2068.5
42.5°	1072.6	1072.8	1099.6	1160.4	1219.8	1325.3	1453.2	1603.4	1765.9	1896.9	1955.2
45°	886.7	892.9	915.0	951.4	998.2	1087.5	1189.9	1329.5	1511.7	1667.0	1763.9
47.5°	751.0	760.0	774.0	803.7	841.0	900.5	985.2	1110.6	1258.8	1429.7	1567.6
50°	680.5	681.9	699.8	716.3	748.6	796.1	870.3	974.7	1110.9	1275.1	1428.5
52.5°	620.1	619.7	630.5	651.4	677.7	714.6	774.6	869.7	990.4	1137.7	1296.0
55°	529.3	532.8	541.0	557.5	577.5	603.6	651.0	722.5	817.3	943.1	1086.8
57.5°	460.3	462.1	468.6	475.5	493.9	512.8	548.5	598.1	678.1	781.1	915.0
60°	415.2	415.9	417.9	428.3	442.7	460.5	484.7	526.6	593.9	688.1	794.0
62.5°	371.2	372.5	375.7	383.1	394.3	406.7	431.9	465.5	521.3	601.8	697.2
65°	309.4	310.0	314.9	317.6	326.5	337.5	356.1	378.8	417.2	484.7	556.8
67.5°	258.5	258.5	258.7	262.4	268.6	276.0	287.1	305.2	334.2	375.7	439.3
70°	225.5	225.5	226.9	228.9	232.4	238.5	244.7	258.5	279.8	313.5	362.3
72.5°	194.7	195.2	196.6	197.0	198.8	203.9	208.4	217.2	233.1	258.5	297.9
75°	143.0	145.1	148.5	151.3	154.6	153.9	158.8	164.3	169.1	184.3	206.9
77.5°	106.4	105.3	105.7	108.1	108.5	109.2	112.6	116.8	120.5	127.6	135.7
80°	81.1	81.1	83.2	83.9	83.2	83.9	87.3	89.4	90.7	93.5	101.1
82.5°	61.3	62.4	61.7	62.4	62.9	63.5	66.4	66.8	68.2	69.3	72.5
85°	34.4	35.0	35.7	34.4	34.4	34.4	35.7	36.4	37.8	37.1	38.5
87.5°	16.1	15.5	16.0	15.9	16.4	15.8	16.2	17.0	15.8	16.2	15.9
90°	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6	15.7	14.8	13.6
92.5°	18.6	18.5	18.4	18.4	18.3	17.8	17.0	16.1	15.2	14.3	13.1
95°	19.5	19.4	19.2	19.1	18.9	18.4	17.5	16.6	15.7	14.8	14.6
97.5°	18.9	18.7	18.5	18.4	18.3	18.2	18.1	18.0	17.8	17.7	34.4
100°	18.9	18.7	18.5	18.4	18.3	19.5	22.0	24.5	27.0	29.6	50.3
102.5°	19.4	19.4	19.3	19.3	19.3	33.0	60.4	87.8	115.3	142.8	145.4
105°	191.8	197.3	202.6	208.0	213.4	215.4	214.0	212.8	211.4	210.0	209.3
107.5°	267.4	266.8	266.2	265.7	265.1	264.5	263.8	263.2	262.5	261.9	260.9
110°	300.2	299.8	299.4	298.9	298.4	298.1	297.8	297.5	297.2	296.9	296.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	333.1	332.5	332.0	331.4	330.8	330.5	330.6	330.7	330.8	330.8	330.4
115°	381.1	381.1	381.1	381.1	381.1	380.9	380.6	380.3	380.0	379.7	379.9
117.5°	429.8	429.8	429.9	430.0	430.0	430.1	430.2	430.2	430.2	430.3	430.0
120°	460.5	460.8	461.1	461.4	461.7	461.7	461.4	461.1	460.8	460.5	460.6
122.5°	490.6	490.9	491.2	491.5	491.8	491.9	491.7	491.5	491.4	491.2	490.9
125°	535.9	535.7	535.5	535.5	535.3	534.9	534.5	534.1	533.6	533.2	533.5
127.5°	575.6	575.8	575.8	575.9	576.1	576.2	576.3	576.4	576.4	576.5	575.8
130°	602.5	602.5	602.5	602.5	602.5	602.4	602.3	602.2	602.0	601.8	601.4
132.5°	627.3	627.4	627.5	627.7	627.8	627.8	627.6	627.5	627.3	627.2	626.5
135°	664.4	664.2	663.8	663.6	663.2	663.0	662.6	662.4	662.0	661.8	661.2
137.5°	696.2	696.3	696.4	696.5	696.5	696.5	696.1	695.8	695.5	695.2	694.5
140°	718.3	718.2	718.0	717.9	717.7	717.4	717.0	716.5	716.1	715.6	715.3
142.5°	736.6	736.6	736.6	736.5	736.5	736.3	736.0	735.6	735.4	735.0	734.9
145°	764.7	764.5	764.1	763.9	763.5	763.4	763.2	763.0	762.9	762.8	762.8
147.5°	788.1	787.9	787.7	787.6	787.5	787.3	787.2	787.1	787.0	786.9	787.0
150°	803.1	803.0	802.8	802.7	802.5	802.5	802.5	802.5	802.5	802.5	802.6
152.5°	816.1	816.1	816.2	816.3	816.4	816.3	816.1	815.9	815.6	815.4	815.6
155°	833.4	833.9	834.3	834.7	835.3	835.2	834.6	834.0	833.4	832.8	833.2
157.5°	848.0	848.8	849.5	850.3	851.1	851.1	850.3	849.5	848.8	848.0	848.5
160°	857.6	858.6	859.5	860.4	861.3	861.3	860.4	859.5	858.6	857.6	857.8
162.5°	865.2	866.3	867.2	868.2	869.3	869.4	868.4	867.5	866.7	865.7	865.9
165°	875.8	877.2	878.6	879.9	881.2	881.3	880.1	878.9	877.7	876.5	876.5
167.5°	883.8	885.3	886.7	888.3	889.8	889.8	888.6	887.3	885.9	884.6	884.7
170°	888.6	890.1	891.7	893.1	894.6	894.8	893.5	892.3	891.1	890.0	889.8
172.5°	891.3	892.9	894.6	896.2	897.8	898.0	896.8	895.6	894.4	893.2	893.0
175°	894.7	896.5	898.3	900.1	901.9	902.1	900.8	899.4	898.0	896.7	896.6
177.5°	896.8	898.3	899.7	901.1	902.6	902.8	901.9	901.0	899.9	899.0	898.8
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1757.9	1750.2	1746.4	1737.6	1727.1	1721.6	1716.7	1709.5	1700.1	1690.2	1683.1
5°	1847.1	1830.7	1810.0	1785.3	1763.2	1742.0	1723.4	1704.9	1683.5	1661.6	1639.5
7.5°	1938.7	1906.3	1871.2	1830.7	1791.1	1755.3	1722.3	1690.7	1654.9	1622.9	1593.7
10°	2002.5	1958.5	1909.7	1858.1	1806.6	1761.9	1717.9	1678.0	1634.0	1594.8	1561.9
12.5°	2054.2	2002.5	1943.8	1879.6	1817.6	1763.5	1713.0	1661.0	1610.9	1568.5	1524.5
15°	2139.9	2069.2	1990.1	1913.1	1832.7	1759.1	1691.1	1630.6	1573.6	1513.7	1471.8
17.5°	2199.0	2115.0	2018.9	1926.3	1831.3	1744.6	1666.0	1594.1	1528.2	1467.1	1417.2
20°	2234.1	2141.3	2034.8	1929.6	1823.1	1730.3	1645.7	1566.0	1497.9	1431.9	1380.4
22.5°	2253.9	2151.2	2034.8	1924.7	1814.3	1713.7	1620.9	1537.9	1463.8	1397.8	1340.7
25°	2260.3	2150.3	2031.4	1904.9	1783.9	1677.3	1581.1	1491.0	1408.5	1342.6	1282.0
27.5°	2251.5	2121.9	2000.2	1870.4	1745.5	1633.2	1532.1	1437.5	1355.0	1284.1	1222.1
30°	2238.3	2099.4	1968.8	1834.1	1707.5	1599.7	1493.1	1402.4	1316.5	1242.9	1180.3
32.5°	2209.7	2071.9	1931.4	1793.4	1665.3	1554.0	1452.9	1361.7	1277.4	1202.2	1135.7
35°	2153.0	2013.4	1860.9	1719.2	1593.5	1478.0	1383.1	1295.1	1214.7	1134.3	1064.1
37.5°	2078.4	1935.8	1784.0	1628.9	1503.0	1394.0	1306.9	1224.3	1145.8	1072.4	994.7
40°	2008.0	1878.1	1721.3	1567.4	1438.1	1332.9	1252.5	1177.6	1098.5	1025.6	948.0
42.5°	1922.8	1812.1	1653.7	1499.2	1371.6	1270.2	1195.3	1122.1	1050.2	979.5	898.5
45°	1780.5	1696.6	1548.1	1399.6	1271.1	1170.7	1102.0	1037.3	974.0	906.7	830.4
47.5°	1617.4	1560.6	1432.4	1280.4	1161.5	1071.2	1004.8	951.9	898.5	831.1	764.1
50°	1504.1	1467.7	1343.9	1205.1	1091.7	1008.5	940.4	890.9	846.2	781.6	721.8
52.5°	1383.1	1363.7	1259.2	1126.4	1016.8	935.3	877.2	832.6	787.4	733.7	677.8
55°	1198.9	1209.2	1120.5	1005.7	902.6	833.9	780.9	743.8	705.3	660.0	616.6
57.5°	1010.6	1048.2	988.7	887.9	791.3	727.7	687.9	656.6	624.3	586.7	549.7
60°	897.8	929.4	895.7	807.0	722.5	663.4	626.3	602.2	569.9	535.5	507.3
62.5°	787.8	821.7	801.7	730.0	651.5	600.7	567.9	545.5	521.5	491.5	462.3
65°	649.6	671.6	662.0	612.5	556.8	513.5	483.3	466.7	444.8	422.8	396.7
67.5°	497.6	540.0	534.4	508.2	460.0	426.2	406.4	391.8	371.8	355.4	337.7
70°	409.1	448.2	447.5	426.2	400.1	368.4	354.7	342.3	324.4	308.7	294.2
72.5°	334.8	370.7	376.0	359.6	341.8	317.9	304.7	296.2	278.8	267.9	256.2
75°	234.5	260.5	267.4	267.4	259.2	246.8	235.1	229.6	217.2	207.6	200.7
77.5°	153.7	170.2	180.9	183.4	184.7	180.6	170.9	167.0	157.6	154.1	147.5
80°	108.6	119.6	132.0	136.1	139.6	138.2	134.1	131.3	122.3	118.9	116.1
82.5°	75.1	81.1	91.3	100.4	99.4	103.0	99.4	97.2	90.5	89.2	86.4
85°	39.2	39.9	41.2	47.4	50.9	52.3	53.0	51.6	49.5	49.5	44.7
87.5°	15.7	14.9	15.8	15.5	15.7	17.6	18.9	19.1	17.8	16.4	15.2
90°	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0	3.7	5.3	7.0
92.5°	11.9	10.7	9.5	8.9	8.8	8.7	8.6	8.5	8.6	8.7	8.8
95°	14.6	14.4	14.2	16.7	21.8	26.9	31.9	37.0	31.9	26.9	21.8
97.5°	51.1	67.8	84.6	91.4	88.2	85.0	81.8	78.6	81.8	85.0	88.2
100°	70.9	91.5	112.2	121.1	118.5	115.8	113.1	110.4	113.1	115.8	118.5
102.5°	148.1	150.8	153.5	153.9	151.9	149.9	147.9	145.9	147.9	149.9	151.9
105°	208.5	207.8	207.1	206.2	205.3	204.4	203.5	202.6	203.5	204.4	205.3
107.5°	259.8	258.8	257.8	257.1	256.7	256.1	255.7	255.3	255.7	256.1	256.7
110°	295.1	294.2	293.3	292.7	292.1	291.7	291.3	290.8	291.3	291.7	292.1





TEST NUMBER: P332997-935

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	329.9	329.6	329.2	328.6	327.7	326.9	326.1	325.3	326.1	326.9	327.7
115°	380.0	380.1	380.3	380.1	379.7	379.3	378.8	378.3	378.8	379.3	379.7
117.5°	429.6	429.3	429.0	428.5	427.9	427.3	426.7	426.1	426.7	427.3	427.9
120°	460.8	460.9	461.1	460.8	460.3	459.7	459.1	458.5	459.1	459.7	460.3
122.5°	490.8	490.5	490.3	490.1	489.7	489.3	489.0	488.6	489.0	489.3	489.7
125°	533.8	534.1	534.3	534.3	533.6	533.0	532.4	531.8	532.4	533.0	533.6
127.5°	575.1	574.5	573.8	573.3	573.3	573.1	572.9	572.7	572.9	573.1	573.3
130°	601.0	600.5	600.0	599.8	599.6	599.4	599.3	599.2	599.3	599.4	599.6
132.5°	626.0	625.4	624.9	624.5	624.2	624.0	623.6	623.4	623.6	624.0	624.2
135°	660.6	660.0	659.4	659.2	659.3	659.4	659.6	659.8	659.6	659.4	659.3
137.5°	693.9	693.2	692.5	692.2	692.1	692.1	692.0	691.9	692.0	692.1	692.1
140°	715.1	714.7	714.5	714.1	713.9	713.5	713.3	712.9	713.3	713.5	713.9
142.5°	734.7	734.4	734.3	733.9	733.4	732.9	732.3	731.8	732.3	732.9	733.4
145°	762.8	762.8	762.8	762.5	762.1	761.6	761.2	760.7	761.2	761.6	762.1
147.5°	787.1	787.3	787.5	787.1	786.3	785.4	784.6	783.8	784.6	785.4	786.3
150°	802.8	802.9	803.1	802.8	802.3	801.7	801.1	800.5	801.1	801.7	802.3
152.5°	816.0	816.2	816.5	816.4	815.9	815.4	814.9	814.4	814.9	815.4	815.9
155°	833.6	834.1	834.6	834.7	834.6	834.4	834.2	834.1	834.2	834.4	834.6
157.5°	849.0	849.5	850.0	850.3	850.4	850.5	850.6	850.7	850.6	850.5	850.4
160°	858.0	858.2	858.2	858.6	859.0	859.5	859.9	860.4	859.9	859.5	859.0
162.5°	866.1	866.2	866.3	866.7	867.3	867.8	868.4	869.0	868.4	867.8	867.3
165°	876.5	876.5	876.5	876.9	877.6	878.4	879.2	879.9	879.2	878.4	877.6
167.5°	884.8	884.8	884.9	885.4	886.1	886.9	887.7	888.5	887.7	886.9	886.1
170°	889.7	889.5	889.4	889.8	890.6	891.6	892.4	893.4	892.4	891.6	890.6
172.5°	892.9	892.8	892.6	893.0	893.9	894.8	895.7	896.6	895.7	894.8	893.9
175°	896.4	896.3	896.1	896.5	897.4	898.3	899.1	900.1	899.1	898.3	897.4
177.5°	898.5	898.3	898.0	898.4	899.1	900.0	900.9	901.7	900.9	900.0	899.1
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332997-935

CATALOG NUMBER: SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1675.4	1669.9	1662.8	1654.5	1644.6	1635.8	1631.9	1635.3	1636.9	1632.5	1631.9
5°	1624.4	1607.2	1593.5	1572.9	1556.3	1542.6	1533.0	1528.9	1530.3	1519.2	1516.5
7.5°	1567.1	1546.7	1524.1	1499.7	1476.9	1456.6	1446.0	1440.3	1428.7	1423.7	1415.3
10°	1530.3	1502.7	1480.7	1451.8	1425.7	1401.7	1390.0	1380.4	1368.6	1363.1	1351.5
12.5°	1492.3	1460.3	1436.1	1406.2	1379.5	1350.6	1339.4	1321.5	1303.2	1291.7	1276.7
15°	1438.8	1400.3	1370.7	1335.0	1303.4	1270.4	1240.8	1207.8	1195.4	1169.3	1154.2
17.5°	1376.2	1337.2	1300.6	1252.7	1203.9	1162.9	1131.4	1099.8	1080.8	1064.1	1056.4
20°	1335.0	1299.2	1248.4	1192.7	1138.4	1093.0	1067.6	1047.0	1026.3	1014.7	1006.4
22.5°	1296.0	1250.3	1191.2	1131.1	1076.8	1041.3	1019.8	998.6	981.8	970.7	959.7
25°	1230.5	1170.7	1108.1	1039.4	1002.3	971.4	948.0	930.7	920.5	906.0	900.5
27.5°	1163.3	1090.8	1021.8	975.6	936.9	908.6	888.3	875.4	862.3	853.1	845.9
30°	1111.6	1038.0	976.1	932.1	892.9	869.6	853.1	838.0	827.7	820.1	814.6
32.5°	1060.4	986.9	934.9	887.6	856.7	833.9	816.2	804.9	796.9	787.1	783.8
35°	986.4	921.2	875.8	833.2	801.5	780.9	767.2	755.5	748.6	745.9	743.8
37.5°	915.4	861.9	813.1	778.2	750.0	733.7	717.6	711.8	707.1	702.1	704.4
40°	870.3	820.1	776.8	739.7	717.0	699.1	689.5	682.6	678.5	678.5	678.5
42.5°	831.2	782.1	739.9	706.7	684.0	668.9	658.1	652.4	651.0	650.5	653.8
45°	770.6	725.2	682.6	655.1	635.8	620.8	614.6	609.8	609.8	612.5	613.2
47.5°	710.5	668.0	633.8	603.0	585.4	575.9	570.6	568.1	568.3	571.1	574.3
50°	673.6	631.7	598.1	570.6	554.1	545.1	540.3	539.0	540.3	540.3	545.1
52.5°	633.5	596.0	562.8	539.8	521.1	512.7	510.1	508.2	508.9	511.2	513.2
55°	574.7	541.0	509.4	487.4	473.6	468.1	461.9	462.6	461.2	462.6	462.6
57.5°	515.7	485.4	456.1	438.6	426.5	418.5	411.7	413.7	411.6	411.4	410.3
60°	477.8	444.8	421.4	405.6	391.8	385.0	378.8	380.1	378.1	376.7	373.9
62.5°	436.5	409.1	386.8	371.5	360.5	352.5	346.3	344.9	340.2	335.4	329.4
65°	376.7	354.0	334.1	319.7	309.4	303.2	298.3	294.2	283.9	272.9	267.4
67.5°	318.6	302.2	283.6	271.4	263.0	254.9	245.7	238.7	229.0	223.0	219.6
70°	281.1	265.4	249.5	237.8	228.9	221.4	211.0	206.2	199.3	196.6	193.2
72.5°	245.4	230.7	216.0	205.4	195.9	190.0	181.9	177.1	174.1	173.0	169.5
75°	191.1	179.4	168.4	158.8	151.3	147.1	143.7	140.3	138.9	132.7	129.2
77.5°	139.4	131.7	124.8	118.0	112.6	109.9	103.2	99.3	96.9	94.0	93.3
80°	108.6	103.1	96.3	92.1	84.6	81.8	79.0	78.4	77.7	77.0	76.3
82.5°	81.7	76.2	69.3	66.8	64.7	63.1	61.5	60.8	60.1	60.5	60.4
85°	41.2	38.5	38.5	37.8	37.1	36.4	35.7	35.7	35.0	35.7	35.0
87.5°	15.5	15.2	15.4	14.6	15.4	15.6	15.2	15.4	16.2	15.2	15.3
90°	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6	17.5	18.4	19.0
92.5°	8.9	9.5	10.7	11.9	13.1	14.3	15.2	16.1	17.0	17.8	18.3
95°	16.7	14.2	14.4	14.6	14.6	14.8	15.7	16.6	17.5	18.4	18.9
97.5°	91.4	84.6	67.8	51.1	34.4	17.7	17.8	18.0	18.1	18.2	18.3
100°	121.1	112.2	91.5	70.9	50.3	29.6	27.0	24.5	22.0	19.5	18.3
102.5°	153.9	153.5	150.8	148.1	145.4	142.8	115.3	87.8	60.4	33.0	19.3
105°	206.2	207.1	207.8	208.5	209.3	210.0	211.4	212.8	214.0	215.4	213.4
107.5°	257.1	257.8	258.8	259.8	260.9	261.9	262.5	263.2	263.8	264.5	265.1
110°	292.7	293.3	294.2	295.1	296.0	296.9	297.2	297.5	297.8	298.1	298.4



TEST NUMBER: P332997-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	328.6	329.2	329.6	329.9	330.4	330.8	330.8	330.7	330.6	330.5	330.8
115°	380.1	380.3	380.1	380.0	379.9	379.7	380.0	380.3	380.6	380.9	381.1
117.5°	428.5	429.0	429.3	429.6	430.0	430.3	430.2	430.2	430.2	430.1	430.0
120°	460.8	461.1	460.9	460.8	460.6	460.5	460.8	461.1	461.4	461.7	461.7
122.5°	490.1	490.3	490.5	490.8	490.9	491.2	491.4	491.5	491.7	491.9	491.8
125°	534.3	534.3	534.1	533.8	533.5	533.2	533.6	534.1	534.5	534.9	535.3
127.5°	573.3	573.8	574.5	575.1	575.8	576.5	576.4	576.4	576.3	576.2	576.1
130°	599.8	600.0	600.5	601.0	601.4	601.8	602.0	602.2	602.3	602.4	602.5
132.5°	624.5	624.9	625.4	626.0	626.5	627.2	627.3	627.5	627.6	627.8	627.8
135°	659.2	659.4	660.0	660.6	661.2	661.8	662.0	662.4	662.6	663.0	663.2
137.5°	692.2	692.5	693.2	693.9	694.5	695.2	695.5	695.8	696.1	696.5	696.5
140°	714.1	714.5	714.7	715.1	715.3	715.6	716.1	716.5	717.0	717.4	717.7
142.5°	733.9	734.3	734.4	734.7	734.9	735.0	735.4	735.6	736.0	736.3	736.5
145°	762.5	762.8	762.8	762.8	762.8	762.8	762.9	763.0	763.2	763.4	763.5
147.5°	787.1	787.5	787.3	787.1	787.0	786.9	787.0	787.1	787.2	787.3	787.5
150°	802.8	803.1	802.9	802.8	802.6	802.5	802.5	802.5	802.5	802.5	802.5
152.5°	816.4	816.5	816.2	816.0	815.6	815.4	815.6	815.9	816.1	816.3	816.4
155°	834.7	834.6	834.1	833.6	833.2	832.8	833.4	834.0	834.6	835.2	835.3
157.5°	850.3	850.0	849.5	849.0	848.5	848.0	848.8	849.5	850.3	851.1	851.1
160°	858.6	858.2	858.2	858.0	857.8	857.6	858.6	859.5	860.4	861.3	861.3
162.5°	866.7	866.3	866.2	866.1	865.9	865.7	866.7	867.5	868.4	869.4	869.3
165°	876.9	876.5	876.5	876.5	876.5	876.5	877.7	878.9	880.1	881.3	881.2
167.5°	885.4	884.9	884.8	884.8	884.7	884.6	885.9	887.3	888.6	889.8	889.8
170°	889.8	889.4	889.5	889.7	889.8	890.0	891.1	892.3	893.5	894.8	894.6
172.5°	893.0	892.6	892.8	892.9	893.0	893.2	894.4	895.6	896.8	898.0	897.8
175°	896.5	896.1	896.3	896.4	896.6	896.7	898.0	899.4	900.8	902.1	901.9
177.5°	898.4	898.0	898.3	898.5	898.8	899.0	899.9	901.0	901.9	902.8	902.6
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332997-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1628.7	1629.8	1625.9	1624.8	1625.9	1629.8	1628.7	1631.9	1632.5	1636.9	1635.3
5°	1511.0	1509.6	1506.1	1506.8	1506.1	1509.6	1511.0	1516.5	1519.2	1530.3	1528.9
7.5°	1410.3	1405.0	1406.4	1401.0	1406.4	1405.0	1410.3	1415.3	1423.7	1428.7	1440.3
10°	1348.8	1341.2	1335.0	1329.5	1335.0	1341.2	1348.8	1351.5	1363.1	1368.6	1380.4
12.5°	1264.6	1258.1	1249.7	1251.4	1249.7	1258.1	1264.6	1276.7	1291.7	1303.2	1321.5
15°	1145.2	1135.0	1118.4	1120.5	1118.4	1135.0	1145.2	1154.2	1169.3	1195.4	1207.8
17.5°	1044.2	1044.3	1036.8	1038.5	1036.8	1044.3	1044.2	1056.4	1064.1	1080.8	1099.8
20°	992.0	987.1	987.8	985.8	987.8	987.1	992.0	1006.4	1014.7	1026.3	1047.0
22.5°	955.6	949.8	944.9	940.6	944.9	949.8	955.6	959.7	970.7	981.8	998.6
25°	894.3	890.2	884.1	882.7	884.1	890.2	894.3	900.5	906.0	920.5	930.7
27.5°	840.4	839.6	837.2	834.0	837.2	839.6	840.4	845.9	853.1	862.3	875.4
30°	809.1	807.7	806.3	804.3	806.3	807.7	809.1	814.6	820.1	827.7	838.0
32.5°	781.1	780.2	778.9	779.0	778.9	780.2	781.1	783.8	787.1	796.9	804.9
35°	741.1	740.4	739.0	738.3	739.0	740.4	741.1	743.8	745.9	748.6	755.5
37.5°	703.7	705.4	704.6	704.5	704.6	705.4	703.7	704.4	702.1	707.1	711.8
40°	677.8	678.5	679.8	679.2	679.8	678.5	677.8	678.5	678.5	678.5	682.6
42.5°	656.3	656.5	658.4	656.1	658.4	656.5	656.3	653.8	650.5	651.0	652.4
45°	618.0	622.2	621.5	621.5	621.5	622.2	618.0	613.2	612.5	609.8	609.8
47.5°	576.1	579.6	580.6	580.5	580.6	579.6	576.1	574.3	571.1	568.3	568.1
50°	548.5	547.2	549.2	548.5	549.2	547.2	548.5	545.1	540.3	540.3	539.0
52.5°	515.1	515.3	515.1	514.4	515.1	515.3	515.1	513.2	511.2	508.9	508.2
55°	463.3	464.0	462.6	463.3	462.6	464.0	463.3	462.6	462.6	461.2	462.6
57.5°	407.3	403.9	405.3	403.6	405.3	403.9	407.3	410.3	411.4	411.6	413.7
60°	367.1	361.6	360.2	357.5	360.2	361.6	367.1	373.9	376.7	378.1	380.1
62.5°	322.0	318.1	313.5	315.6	313.5	318.1	322.0	329.4	335.4	340.2	344.9
65°	261.9	259.2	257.1	259.8	257.1	259.2	261.9	267.4	272.9	283.9	294.2
67.5°	216.8	215.3	215.3	214.0	215.3	215.3	216.8	219.6	223.0	229.0	238.7
70°	193.2	191.1	191.1	189.8	191.1	191.1	193.2	193.2	196.6	199.3	206.2
72.5°	168.9	166.9	167.5	166.6	167.5	166.9	168.9	169.5	173.0	174.1	177.1
75°	125.1	121.7	121.7	122.3	121.7	121.7	125.1	129.2	132.7	138.9	140.3
77.5°	93.3	92.6	93.6	92.4	93.6	92.6	93.3	93.3	94.0	96.9	99.3
80°	76.3	75.6	74.9	77.0	74.9	75.6	76.3	76.3	77.0	77.7	78.4
82.5°	59.2	59.2	59.0	61.6	59.0	59.2	59.2	60.4	60.5	60.1	60.8
85°	35.7	34.4	35.7	34.4	35.7	34.4	35.7	35.0	35.7	35.0	35.7
87.5°	16.5	16.0	15.5	16.1	15.5	16.0	16.5	15.3	15.2	16.2	15.4
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6
92.5°	18.4	18.4	18.5	18.6	18.5	18.4	18.4	18.3	17.8	17.0	16.1
95°	19.1	19.2	19.4	19.5	19.4	19.2	19.1	18.9	18.4	17.5	16.6
97.5°	18.4	18.5	18.7	18.9	18.7	18.5	18.4	18.3	18.2	18.1	18.0
100°	18.4	18.5	18.7	18.9	18.7	18.5	18.4	18.3	19.5	22.0	24.5
102.5°	19.3	19.3	19.4	19.4	19.4	19.3	19.3	19.3	33.0	60.4	87.8
105°	208.0	202.6	197.3	191.8	197.3	202.6	208.0	213.4	215.4	214.0	212.8
107.5°	265.7	266.2	266.8	267.4	266.8	266.2	265.7	265.1	264.5	263.8	263.2
110°	298.9	299.4	299.8	300.2	299.8	299.4	298.9	298.4	298.1	297.8	297.5



TEST NUMBER: P332997-935

CATALOG NUMBER: SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	331.4	332.0	332.5	333.1	332.5	332.0	331.4	330.8	330.5	330.6	330.7
115°	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	380.9	380.6	380.3
117.5°	430.0	429.9	429.8	429.8	429.8	429.9	430.0	430.0	430.1	430.2	430.2
120°	461.4	461.1	460.8	460.5	460.8	461.1	461.4	461.7	461.7	461.4	461.1
122.5°	491.5	491.2	490.9	490.6	490.9	491.2	491.5	491.8	491.9	491.7	491.5
125°	535.5	535.5	535.7	535.9	535.7	535.5	535.5	535.3	534.9	534.5	534.1
127.5°	575.9	575.8	575.8	575.6	575.8	575.8	575.9	576.1	576.2	576.3	576.4
130°	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.5	602.4	602.3	602.2
132.5°	627.7	627.5	627.4	627.3	627.4	627.5	627.7	627.8	627.8	627.6	627.5
135°	663.6	663.8	664.2	664.4	664.2	663.8	663.6	663.2	663.0	662.6	662.4
137.5°	696.5	696.4	696.3	696.2	696.3	696.4	696.5	696.5	696.5	696.1	695.8
140°	717.9	718.0	718.2	718.3	718.2	718.0	717.9	717.7	717.4	717.0	716.5
142.5°	736.5	736.6	736.6	736.6	736.6	736.6	736.5	736.5	736.3	736.0	735.6
145°	763.9	764.1	764.5	764.7	764.5	764.1	763.9	763.5	763.4	763.2	763.0
147.5°	787.6	787.7	787.9	788.1	787.9	787.7	787.6	787.5	787.3	787.2	787.1
150°	802.7	802.8	803.0	803.1	803.0	802.8	802.7	802.5	802.5	802.5	802.5
152.5°	816.3	816.2	816.1	816.1	816.1	816.2	816.3	816.4	816.3	816.1	815.9
155°	834.7	834.3	833.9	833.4	833.9	834.3	834.7	835.3	835.2	834.6	834.0
157.5°	850.3	849.5	848.8	848.0	848.8	849.5	850.3	851.1	851.1	850.3	849.5
160°	860.4	859.5	858.6	857.6	858.6	859.5	860.4	861.3	861.3	860.4	859.5
162.5°	868.2	867.2	866.3	865.2	866.3	867.2	868.2	869.3	869.4	868.4	867.5
165°	879.9	878.6	877.2	875.8	877.2	878.6	879.9	881.2	881.3	880.1	878.9
167.5°	888.3	886.7	885.3	883.8	885.3	886.7	888.3	889.8	889.8	888.6	887.3
170°	893.1	891.7	890.1	888.6	890.1	891.7	893.1	894.6	894.8	893.5	892.3
172.5°	896.2	894.6	892.9	891.3	892.9	894.6	896.2	897.8	898.0	896.8	895.6
175°	900.1	898.3	896.5	894.7	896.5	898.3	900.1	901.9	902.1	900.8	899.4
177.5°	901.1	899.7	898.3	896.8	898.3	899.7	901.1	902.6	902.8	901.9	901.0
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332997-935

CATALOG NUMBER: SA4XXRDIP-C1195D810U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1631.9	1635.8	1644.6	1654.5	1662.8	1669.9	1675.4	1683.1	1690.2	1700.1	1709.5
5°	1533.0	1542.6	1556.3	1572.9	1593.5	1607.2	1624.4	1639.5	1661.6	1683.5	1704.9
7.5°	1446.0	1456.6	1476.9	1499.7	1524.1	1546.7	1567.1	1593.7	1622.9	1654.9	1690.7
10°	1390.0	1401.7	1425.7	1451.8	1480.7	1502.7	1530.3	1561.9	1594.8	1634.0	1678.0
12.5°	1339.4	1350.6	1379.5	1406.2	1436.1	1460.3	1492.3	1524.5	1568.5	1610.9	1661.0
15°	1240.8	1270.4	1303.4	1335.0	1370.7	1400.3	1438.8	1471.8	1513.7	1573.6	1630.6
17.5°	1131.4	1162.9	1203.9	1252.7	1300.6	1337.2	1376.2	1417.2	1467.1	1528.2	1594.1
20°	1067.6	1093.0	1138.4	1192.7	1248.4	1299.2	1335.0	1380.4	1431.9	1497.9	1566.0
22.5°	1019.8	1041.3	1076.8	1131.1	1191.2	1250.3	1296.0	1340.7	1397.8	1463.8	1537.9
25°	948.0	971.4	1002.3	1039.4	1108.1	1170.7	1230.5	1282.0	1342.6	1408.5	1491.0
27.5°	888.3	908.6	936.9	975.6	1021.8	1090.8	1163.3	1222.1	1284.1	1355.0	1437.5
30°	853.1	869.6	892.9	932.1	976.1	1038.0	1111.6	1180.3	1242.9	1316.5	1402.4
32.5°	816.2	833.9	856.7	887.6	934.9	986.9	1060.4	1135.7	1202.2	1277.4	1361.7
35°	767.2	780.9	801.5	833.2	875.8	921.2	986.4	1064.1	1134.3	1214.7	1295.1
37.5°	717.6	733.7	750.0	778.2	813.1	861.9	915.4	994.7	1072.4	1145.8	1224.3
40°	689.5	699.1	717.0	739.7	776.8	820.1	870.3	948.0	1025.6	1098.5	1177.6
42.5°	658.1	668.9	684.0	706.7	739.9	782.1	831.2	898.5	979.5	1050.2	1122.1
45°	614.6	620.8	635.8	655.1	682.6	725.2	770.6	830.4	906.7	974.0	1037.3
47.5°	570.6	575.9	585.4	603.0	633.8	668.0	710.5	764.1	831.1	898.5	951.9
50°	540.3	545.1	554.1	570.6	598.1	631.7	673.6	721.8	781.6	846.2	890.9
52.5°	510.1	512.7	521.1	539.8	562.8	596.0	633.5	677.8	733.7	787.4	832.6
55°	461.9	468.1	473.6	487.4	509.4	541.0	574.7	616.6	660.0	705.3	743.8
57.5°	411.7	418.5	426.5	438.6	456.1	485.4	515.7	549.7	586.7	624.3	656.6
60°	378.8	385.0	391.8	405.6	421.4	444.8	477.8	507.3	535.5	569.9	602.2
62.5°	346.3	352.5	360.5	371.5	386.8	409.1	436.5	462.3	491.5	521.5	545.5
65°	298.3	303.2	309.4	319.7	334.1	354.0	376.7	396.7	422.8	444.8	466.7
67.5°	245.7	254.9	263.0	271.4	283.6	302.2	318.6	337.7	355.4	371.8	391.8
70°	211.0	221.4	228.9	237.8	249.5	265.4	281.1	294.2	308.7	324.4	342.3
72.5°	181.9	190.0	195.9	205.4	216.0	230.7	245.4	256.2	267.9	278.8	296.2
75°	143.7	147.1	151.3	158.8	168.4	179.4	191.1	200.7	207.6	217.2	229.6
77.5°	103.2	109.9	112.6	118.0	124.8	131.7	139.4	147.5	154.1	157.6	167.0
80°	79.0	81.8	84.6	92.1	96.3	103.1	108.6	116.1	118.9	122.3	131.3
82.5°	61.5	63.1	64.7	66.8	69.3	76.2	81.7	86.4	89.2	90.5	97.2
85°	35.7	36.4	37.1	37.8	38.5	38.5	41.2	44.7	49.5	49.5	51.6
87.5°	15.2	15.6	15.4	14.6	15.4	15.2	15.5	15.2	16.4	17.8	19.1
90°	15.7	14.8	13.6	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0
92.5°	15.2	14.3	13.1	11.9	10.7	9.5	8.9	8.8	8.7	8.6	8.5
95°	15.7	14.8	14.6	14.6	14.4	14.2	16.7	21.8	26.9	31.9	37.0
97.5°	17.8	17.7	34.4	51.1	67.8	84.6	91.4	88.2	85.0	81.8	78.6
100°	27.0	29.6	50.3	70.9	91.5	112.2	121.1	118.5	115.8	113.1	110.4
102.5°	115.3	142.8	145.4	148.1	150.8	153.5	153.9	151.9	149.9	147.9	145.9
105°	211.4	210.0	209.3	208.5	207.8	207.1	206.2	205.3	204.4	203.5	202.6
107.5°	262.5	261.9	260.9	259.8	258.8	257.8	257.1	256.7	256.1	255.7	255.3
110°	297.2	296.9	296.0	295.1	294.2	293.3	292.7	292.1	291.7	291.3	290.8



TEST NUMBER: P332997-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	330.8	330.8	330.4	329.9	329.6	329.2	328.6	327.7	326.9	326.1	325.3
115°	380.0	379.7	379.9	380.0	380.1	380.3	380.1	379.7	379.3	378.8	378.3
117.5°	430.2	430.3	430.0	429.6	429.3	429.0	428.5	427.9	427.3	426.7	426.1
120°	460.8	460.5	460.6	460.8	460.9	461.1	460.8	460.3	459.7	459.1	458.5
122.5°	491.4	491.2	490.9	490.8	490.5	490.3	490.1	489.7	489.3	489.0	488.6
125°	533.6	533.2	533.5	533.8	534.1	534.3	534.3	533.6	533.0	532.4	531.8
127.5°	576.4	576.5	575.8	575.1	574.5	573.8	573.3	573.3	573.1	572.9	572.7
130°	602.0	601.8	601.4	601.0	600.5	600.0	599.8	599.6	599.4	599.3	599.2
132.5°	627.3	627.2	626.5	626.0	625.4	624.9	624.5	624.2	624.0	623.6	623.4
135°	662.0	661.8	661.2	660.6	660.0	659.4	659.2	659.3	659.4	659.6	659.8
137.5°	695.5	695.2	694.5	693.9	693.2	692.5	692.2	692.1	692.1	692.0	691.9
140°	716.1	715.6	715.3	715.1	714.7	714.5	714.1	713.9	713.5	713.3	712.9
142.5°	735.4	735.0	734.9	734.7	734.4	734.3	733.9	733.4	732.9	732.3	731.8
145°	762.9	762.8	762.8	762.8	762.8	762.8	762.5	762.1	761.6	761.2	760.7
147.5°	787.0	786.9	787.0	787.1	787.3	787.5	787.1	786.3	785.4	784.6	783.8
150°	802.5	802.5	802.6	802.8	802.9	803.1	802.8	802.3	801.7	801.1	800.5
152.5°	815.6	815.4	815.6	816.0	816.2	816.5	816.4	815.9	815.4	814.9	814.4
155°	833.4	832.8	833.2	833.6	834.1	834.6	834.7	834.6	834.4	834.2	834.1
157.5°	848.8	848.0	848.5	849.0	849.5	850.0	850.3	850.4	850.5	850.6	850.7
160°	858.6	857.6	857.8	858.0	858.2	858.2	858.6	859.0	859.5	859.9	860.4
162.5°	866.7	865.7	865.9	866.1	866.2	866.3	866.7	867.3	867.8	868.4	869.0
165°	877.7	876.5	876.5	876.5	876.5	876.5	876.9	877.6	878.4	879.2	879.9
167.5°	885.9	884.6	884.7	884.8	884.8	884.9	885.4	886.1	886.9	887.7	888.5
170°	891.1	890.0	889.8	889.7	889.5	889.4	889.8	890.6	891.6	892.4	893.4
172.5°	894.4	893.2	893.0	892.9	892.8	892.6	893.0	893.9	894.8	895.7	896.6
175°	898.0	896.7	896.6	896.4	896.3	896.1	896.5	897.4	898.3	899.1	900.1
177.5°	899.9	899.0	898.8	898.5	898.3	898.0	898.4	899.1	900.0	900.9	901.7
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



TEST NUMBER: P332997-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1716.7	1721.6	1727.1	1737.6	1746.4	1750.2	1757.9	1763.4	1761.8	1769.4	1782.6
5°	1723.4	1742.0	1763.2	1785.3	1810.0	1830.7	1847.1	1863.6	1876.7	1892.5	1915.9
7.5°	1722.3	1755.3	1791.1	1830.7	1871.2	1906.3	1938.7	1971.7	2001.0	2033.0	2074.9
10°	1717.9	1761.9	1806.6	1858.1	1909.7	1958.5	2002.5	2043.8	2082.9	2124.9	2177.8
12.5°	1713.0	1763.5	1817.6	1879.6	1943.8	2002.5	2054.2	2113.6	2162.7	2216.7	2277.9
15°	1691.1	1759.1	1832.7	1913.1	1990.1	2069.2	2139.9	2212.9	2280.9	2345.5	2422.5
17.5°	1666.0	1744.6	1831.3	1926.3	2018.9	2115.0	2199.0	2290.8	2360.3	2447.1	2518.6
20°	1645.7	1730.3	1823.1	1929.6	2034.8	2141.3	2234.1	2327.6	2406.0	2493.3	2584.0
22.5°	1620.9	1713.7	1814.3	1924.7	2034.8	2151.2	2253.9	2346.9	2443.9	2542.3	2635.8
25°	1581.1	1677.3	1783.9	1904.9	2031.4	2150.3	2260.3	2375.8	2480.3	2586.8	2670.6
27.5°	1532.1	1633.2	1745.5	1870.4	2000.2	2121.9	2251.5	2374.6	2479.7	2582.2	2655.4
30°	1493.1	1599.7	1707.5	1834.1	1968.8	2099.4	2238.3	2361.3	2472.0	2564.1	2605.4
32.5°	1452.9	1554.0	1665.3	1793.4	1931.4	2071.9	2209.7	2335.5	2437.9	2493.2	2494.2
35°	1383.1	1478.0	1593.5	1719.2	1860.9	2013.4	2153.0	2276.7	2339.3	2344.2	2276.7
37.5°	1306.9	1394.0	1503.0	1628.9	1784.0	1935.8	2078.4	2160.9	2181.8	2111.8	1987.2
40°	1252.5	1332.9	1438.1	1567.4	1721.3	1878.1	2008.0	2068.5	2046.5	1933.0	1794.2
42.5°	1195.3	1270.2	1371.6	1499.2	1653.7	1812.1	1922.8	1955.2	1896.9	1765.9	1603.4
45°	1102.0	1170.7	1271.1	1399.6	1548.1	1696.6	1780.5	1763.9	1667.0	1511.7	1329.5
47.5°	1004.8	1071.2	1161.5	1280.4	1432.4	1560.6	1617.4	1567.6	1429.7	1258.8	1110.6
50°	940.4	1008.5	1091.7	1205.1	1343.9	1467.7	1504.1	1428.5	1275.1	1110.9	974.7
52.5°	877.2	935.3	1016.8	1126.4	1259.2	1363.7	1383.1	1296.0	1137.7	990.4	869.7
55°	780.9	833.9	902.6	1005.7	1120.5	1209.2	1198.9	1086.8	943.1	817.3	722.5
57.5°	687.9	727.7	791.3	887.9	988.7	1048.2	1010.6	915.0	781.1	678.1	598.1
60°	626.3	663.4	722.5	807.0	895.7	929.4	897.8	794.0	688.1	593.9	526.6
62.5°	567.9	600.7	651.5	730.0	801.7	821.7	787.8	697.2	601.8	521.3	465.5
65°	483.3	513.5	556.8	612.5	662.0	671.6	649.6	556.8	484.7	417.2	378.8
67.5°	406.4	426.2	460.0	508.2	534.4	540.0	497.6	439.3	375.7	334.2	305.2
70°	354.7	368.4	400.1	426.2	447.5	448.2	409.1	362.3	313.5	279.8	258.5
72.5°	304.7	317.9	341.8	359.6	376.0	370.7	334.8	297.9	258.5	233.1	217.2
75°	235.1	246.8	259.2	267.4	267.4	260.5	234.5	206.9	184.3	169.1	164.3
77.5°	170.9	180.6	184.7	183.4	180.9	170.2	153.7	135.7	127.6	120.5	116.8
80°	134.1	138.2	139.6	136.1	132.0	119.6	108.6	101.1	93.5	90.7	89.4
82.5°	99.4	103.0	99.4	100.4	91.3	81.1	75.1	72.5	69.3	68.2	66.8
85°	53.0	52.3	50.9	47.4	41.2	39.9	39.2	38.5	37.1	37.8	36.4
87.5°	18.9	17.6	15.7	15.5	15.8	14.9	15.7	15.9	16.2	15.8	17.0
90°	3.7	5.3	7.0	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6
92.5°	8.6	8.7	8.8	8.9	9.5	10.7	11.9	13.1	14.3	15.2	16.1
95°	31.9	26.9	21.8	16.7	14.2	14.4	14.6	14.6	14.8	15.7	16.6
97.5°	81.8	85.0	88.2	91.4	84.6	67.8	51.1	34.4	17.7	17.8	18.0
100°	113.1	115.8	118.5	121.1	112.2	91.5	70.9	50.3	29.6	27.0	24.5
102.5°	147.9	149.9	151.9	153.9	153.5	150.8	148.1	145.4	142.8	115.3	87.8
105°	203.5	204.4	205.3	206.2	207.1	207.8	208.5	209.3	210.0	211.4	212.8
107.5°	255.7	256.1	256.7	257.1	257.8	258.8	259.8	260.9	261.9	262.5	263.2
110°	291.3	291.7	292.1	292.7	293.3	294.2	295.1	296.0	296.9	297.2	297.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.1	326.9	327.7	328.6	329.2	329.6	329.9	330.4	330.8	330.8	330.7
115°	378.8	379.3	379.7	380.1	380.3	380.1	380.0	379.9	379.7	380.0	380.3
117.5°	426.7	427.3	427.9	428.5	429.0	429.3	429.6	430.0	430.3	430.2	430.2
120°	459.1	459.7	460.3	460.8	461.1	460.9	460.8	460.6	460.5	460.8	461.1
122.5°	489.0	489.3	489.7	490.1	490.3	490.5	490.8	490.9	491.2	491.4	491.5
125°	532.4	533.0	533.6	534.3	534.3	534.1	533.8	533.5	533.2	533.6	534.1
127.5°	572.9	573.1	573.3	573.3	573.8	574.5	575.1	575.8	576.5	576.4	576.4
130°	599.3	599.4	599.6	599.8	600.0	600.5	601.0	601.4	601.8	602.0	602.2
132.5°	623.6	624.0	624.2	624.5	624.9	625.4	626.0	626.5	627.2	627.3	627.5
135°	659.6	659.4	659.3	659.2	659.4	660.0	660.6	661.2	661.8	662.0	662.4
137.5°	692.0	692.1	692.1	692.2	692.5	693.2	693.9	694.5	695.2	695.5	695.8
140°	713.3	713.5	713.9	714.1	714.5	714.7	715.1	715.3	715.6	716.1	716.5
142.5°	732.3	732.9	733.4	733.9	734.3	734.4	734.7	734.9	735.0	735.4	735.6
145°	761.2	761.6	762.1	762.5	762.8	762.8	762.8	762.8	762.8	762.9	763.0
147.5°	784.6	785.4	786.3	787.1	787.5	787.3	787.1	787.0	786.9	787.0	787.1
150°	801.1	801.7	802.3	802.8	803.1	802.9	802.8	802.6	802.5	802.5	802.5
152.5°	814.9	815.4	815.9	816.4	816.5	816.2	816.0	815.6	815.4	815.6	815.9
155°	834.2	834.4	834.6	834.7	834.6	834.1	833.6	833.2	832.8	833.4	834.0
157.5°	850.6	850.5	850.4	850.3	850.0	849.5	849.0	848.5	848.0	848.8	849.5
160°	859.9	859.5	859.0	858.6	858.2	858.2	858.0	857.8	857.6	858.6	859.5
162.5°	868.4	867.8	867.3	866.7	866.3	866.2	866.1	865.9	865.7	866.7	867.5
165°	879.2	878.4	877.6	876.9	876.5	876.5	876.5	876.5	876.5	877.7	878.9
167.5°	887.7	886.9	886.1	885.4	884.9	884.8	884.8	884.7	884.6	885.9	887.3
170°	892.4	891.6	890.6	889.8	889.4	889.5	889.7	889.8	890.0	891.1	892.3
172.5°	895.7	894.8	893.9	893.0	892.6	892.8	892.9	893.0	893.2	894.4	895.6
175°	899.1	898.3	897.4	896.5	896.1	896.3	896.4	896.6	896.7	898.0	899.4
177.5°	900.9	900.0	899.1	898.4	898.0	898.3	898.5	898.8	899.0	899.9	901.0
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1789.8	1792.0	1793.6	1799.1	1799.7	1804.7	1799.7
5°	1937.9	1947.5	1962.6	1977.7	1979.1	1988.7	1971.5
7.5°	2103.9	2126.2	2140.1	2164.6	2174.2	2180.2	2170.3
10°	2218.4	2238.9	2275.4	2293.3	2311.2	2313.9	2305.7
12.5°	2328.9	2361.6	2390.3	2424.1	2423.4	2447.6	2438.7
15°	2476.1	2509.8	2549.7	2587.5	2601.3	2601.3	2612.3
17.5°	2581.2	2642.9	2684.2	2713.9	2746.2	2751.9	2748.1
20°	2652.1	2718.8	2762.8	2801.3	2823.3	2829.5	2829.5
22.5°	2704.9	2761.7	2804.6	2839.2	2857.4	2864.6	2862.5
25°	2741.5	2790.2	2816.4	2826.7	2831.5	2830.2	2817.1
27.5°	2691.4	2689.2	2672.7	2641.1	2617.4	2602.9	2586.4
30°	2595.7	2560.0	2518.8	2473.4	2414.9	2370.2	2356.5
32.5°	2453.3	2373.0	2303.2	2227.6	2164.7	2120.0	2101.4
35°	2177.8	2050.6	1946.8	1856.1	1790.1	1748.9	1735.1
37.5°	1850.8	1727.8	1599.2	1511.2	1456.6	1414.9	1399.3
40°	1643.0	1508.9	1396.9	1314.4	1258.0	1217.5	1216.8
42.5°	1453.2	1325.3	1219.8	1160.4	1099.6	1072.8	1072.6
45°	1189.9	1087.5	998.2	951.4	915.0	892.9	886.7
47.5°	985.2	900.5	841.0	803.7	774.0	760.0	751.0
50°	870.3	796.1	748.6	716.3	699.8	681.9	680.5
52.5°	774.6	714.6	677.7	651.4	630.5	619.7	620.1
55°	651.0	603.6	577.5	557.5	541.0	532.8	529.3
57.5°	548.5	512.8	493.9	475.5	468.6	462.1	460.3
60°	484.7	460.5	442.7	428.3	417.9	415.9	415.2
62.5°	431.9	406.7	394.3	383.1	375.7	372.5	371.2
65°	356.1	337.5	326.5	317.6	314.9	310.0	309.4
67.5°	287.1	276.0	268.6	262.4	258.7	258.5	258.5
70°	244.7	238.5	232.4	228.9	226.9	225.5	225.5
72.5°	208.4	203.9	198.8	197.0	196.6	195.2	194.7
75°	158.8	153.9	154.6	151.3	148.5	145.1	143.0
77.5°	112.6	109.2	108.5	108.1	105.7	105.3	106.4
80°	87.3	83.9	83.2	83.9	83.2	81.1	81.1
82.5°	66.4	63.5	62.9	62.4	61.7	62.4	61.3
85°	35.7	34.4	34.4	34.4	35.7	35.0	34.4
87.5°	16.2	15.8	16.4	15.9	16.0	15.5	16.1
90°	17.5	18.4	19.0	19.3	19.6	19.9	20.2
92.5°	17.0	17.8	18.3	18.4	18.4	18.5	18.6
95°	17.5	18.4	18.9	19.1	19.2	19.4	19.5
97.5°	18.1	18.2	18.3	18.4	18.5	18.7	18.9
100°	22.0	19.5	18.3	18.4	18.5	18.7	18.9
102.5°	60.4	33.0	19.3	19.3	19.3	19.4	19.4
105°	214.0	215.4	213.4	208.0	202.6	197.3	191.8
107.5°	263.8	264.5	265.1	265.7	266.2	266.8	267.4
110°	297.8	298.1	298.4	298.9	299.4	299.8	300.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	330.6	330.5	330.8	331.4	332.0	332.5	333.1
115°	380.6	380.9	381.1	381.1	381.1	381.1	381.1
117.5°	430.2	430.1	430.0	430.0	429.9	429.8	429.8
120°	461.4	461.7	461.7	461.4	461.1	460.8	460.5
122.5°	491.7	491.9	491.8	491.5	491.2	490.9	490.6
125°	534.5	534.9	535.3	535.5	535.5	535.7	535.9
127.5°	576.3	576.2	576.1	575.9	575.8	575.8	575.6
130°	602.3	602.4	602.5	602.5	602.5	602.5	602.5
132.5°	627.6	627.8	627.8	627.7	627.5	627.4	627.3
135°	662.6	663.0	663.2	663.6	663.8	664.2	664.4
137.5°	696.1	696.5	696.5	696.5	696.4	696.3	696.2
140°	717.0	717.4	717.7	717.9	718.0	718.2	718.3
142.5°	736.0	736.3	736.5	736.5	736.6	736.6	736.6
145°	763.2	763.4	763.5	763.9	764.1	764.5	764.7
147.5°	787.2	787.3	787.5	787.6	787.7	787.9	788.1
150°	802.5	802.5	802.5	802.7	802.8	803.0	803.1
152.5°	816.1	816.3	816.4	816.3	816.2	816.1	816.1
155°	834.6	835.2	835.3	834.7	834.3	833.9	833.4
157.5°	850.3	851.1	851.1	850.3	849.5	848.8	848.0
160°	860.4	861.3	861.3	860.4	859.5	858.6	857.6
162.5°	868.4	869.4	869.3	868.2	867.2	866.3	865.2
165°	880.1	881.3	881.2	879.9	878.6	877.2	875.8
167.5°	888.6	889.8	889.8	888.3	886.7	885.3	883.8
170°	893.5	894.8	894.6	893.1	891.7	890.1	888.6
172.5°	896.8	898.0	897.8	896.2	894.6	892.9	891.3
175°	900.8	902.1	901.9	900.1	898.3	896.5	894.7
177.5°	901.9	902.8	902.6	901.1	899.7	898.3	896.8
180°	900.1	900.1	900.1	900.1	900.1	900.1	900.1

(END OF REPORT)